

# GENERAL INDEX

The following abbreviations appear after page numbers.

- ( ) Reported from this locality; no further information
- b Book review
- c Crystal morphology information
- d Crystal drawing
- ff Continues on following non-consecutive pages, or referenced frequently throughout lengthy article
- g Geologic information
- h Historical information

- m A map of the locality or a map on which the locality appears
- n Brief descriptive note, as in "What's New in Minerals?"
- p Photograph or other illustration
- q Quantitative data (x-ray data, chemical analysis, physical properties, etc.)
- s Specimen locality attribution only; no information about the locality itself

In the case of special issues, the letter precedes the page number.

- T Tsumeb (vol. 8, no. 3)
- M Michigan Copper Country (vol. 23, no. 2)
- Y Yukon Phosphates (vol. 23, no. 4)
- G Greenland (vol. 24, no. 2)
- H History of Mineral Collecting (vol. 25, no. 6)

## ABELSONITE

### United States

- Utah
- Uintah County (crystalline) **8:379p**

## ABERNATHYITE

- Vs. chernikovite (formerly hydrogen autunite) **19:251q**

### France

- Lodève, Hérault **18:365n**

## ACANTHITE

### Australia

- Queensland
- Mt. Isa mine **19:478**

### Brazil

- Minas Gerais
- Mina do Joel, Serra do Parela (rims in polished sections) **6:282**

### Canada

- British Columbia
- Highland Bell mine, Beaverdell: **20:444p, 20:446**; primary crystals **2:208p**
- Northwest Territories
- Echo Bay mine, Port Radium: after argentite **20:202–203p**; after silver **20:204p**
- Ontario
- Silver Islet mine (after argentite) **17:60n**
- Thunder Bay area mines (micro, after argentite) **13:107n**

### Chile

- Chañarcillo (octahedral) **10:201p**

### Czech Republic (formerly Czechoslovakia)

- Jáchymov (St. Joachimsthal) (after argentite) **17:(15)**
- Třebosko deposit (T-1 vein) (micro grains) **22:210**

### France

- Les Farges mine, Corrèze **13:(267)**

### Germany

- Baden-Württemberg
- Gottesehre mine, St. Blasien (after argentite) **17:(6)**
- Obersachsen
- Annaberg (after argentite) **17:(16)**
- Bräunsdorf, Freiberg: after argentite **17:(18), 20:483**; some after argentite **18:163n**
- Freiberg district (after twinned argentite) **7:168p,d**
- Johanngeorgenstadt (in "silver agate" jasper nodules) **17:14**
- Schneeberg (after argentite) **17:(13)**
- Rheinland-Pfalz
- Angelika mine, Nieder-Beerbach (after argentite) **17:(7)**
- Friedrichslegen mine ("argentite" coating on cerussite) **15:333**

### Mexico

- Chihuahua
- Batopilas district **17:72p, 17:76–78**

- Santo Domingo mine, Batopilas district, after argentite cubes **17:75p, 17:78**

### Guanajuato

- Reyes mine: **25:58n**; after argentite **7:187, 7:188p**; after cubic argentite **18:433n**; arborescent, on polybasite **18:366–367n**; crystals to 2.5 cm **14:386**; 7 cm crystal **17:341n**

### Namibia

- Tsumeb (disseminated) **8:T18n**

### Norway

- Kongsberg (after argentite; some after silver wires, crystals) **17:33c**

### United States

- Arizona
- Bisbee district (unconfirmed) **12:(315)**
- Mammoth mine, Pinal County, micro crystals **11:161, 11:164**
- California
- Defiance mine, Inyo County **15:(13)**
- Monitor-Mogul district, Alpine County (crystalline, sooty) **22:36**
- Colorado
- American Sisters mine, Clear Creek County (after argentite, to 1.2 cm) **7:283**
- Bandora mine, San Juan County (unconfirmed) **19:246**
- Buffalo Boy mine, San Juan County (after dodecahedral argentite) **7:301n**
- Bulldog mine, Creede **10:330–331**
- Enterprise mine, Rico district (with pearceite) **16:213n**
- Newman Hill, Rico district **16:213n**
- Rico Argentine mine, Rico district (some with gold) **16:(213)**
- Rico district, Dolores County **16:213**
- San Juan Mountains ("argentite") **10:358n**
- Idaho
- Bunker Hill mine (minute blades) **12:341**
- New Mexico
- Alhambra mine, Grant County **20:59**
- Hansonburg district, Socorro County ("argentite") **20:(35)**
- Iron Mask mine, Socorro County **20:17**
- South Dakota
- Double Rainbow mine, Lawrence County ("argentite" micro) **1:124n**

## "ACHTARAGDITE"

*See Helvite*

## "ACMITE"

*See Aegirine*

## ACTINOLITE

### Australia

- South Australia
- Moonta mines **19:(412)**
- Walleroo mines **19:(413)**

### Austria

- Knappenwand, Salzburg **17:177p**; "byssolite," in apatite **17:108p**

### Brazil

- Bahia
- Brumado district (crystals to 25 cm; some curved) **9:204–205p**

### Canada

- British Columbia
- Ice River complex (tremolite-actinolite, green fibrous) **12:224**
- Québec
- B.C. mine, Thetford **20:(393)**
- Beaver mine, Thetford **20:(393)**
- Cantley (tremolite/actinolite) **19:334n**
- Jeffrey mine (fibrous) **10:75, 10:79q**
- Mt. St-Hilaire: **19:364n**; acicular **21:294**

### Mexico

- Chihuahua
- Batopilas district **17:(79)**

### Norway

- Kongsberg **17:(35)**

### Portugal

- Monte Redondo quarry (acicular to 15 cm) **2:42**

### United States

- Arizona
- Bisbee district (fibrous) **12:289**
- Mammoth mine, Pinal County ("mountain leather" id as palygorskite) **11:176**
- New Cornelia mine, Pima County **14:293**
- California
- Benitoite Gem mine, San Benito County (fibers) **8:451**
- Jensen quarry, Riverside County ("amianthus") **15:276–277p, 15:287n**
- Kalkar quarry, Santa Cruz County **17:324**
- Miracle Mountain mine, Calaveras County ("byssolite") **15:313n**
- New Melones Lake spillway, Calaveras County, fibrous to 1 cm **13:297–298q, 13:300–301p**
- Colorado
- Calumet iron mine, Chaffee County ("uralite"; after diopside) **10:332**
- Italian Mountain area, Gunnison County (some "uralite" after pyroxene; some "byssolite") **15:80**
- Massachusetts
- Chester emery mines **9:240n**
- Nevada
- Julie claim, Mineral County (some "byssolite" in quartz; one pseudomorph after epidote) **16:76n**
- Metals mine, Churchill County **20:(70), 20:(390)**
- New Jersey
- Oxford quarry, Warren County ("byssolite") **14:(44)**

## GENERAL INDEX

- Paterson area, Passaic County (acicular) **9:173**  
 New Mexico  
 Magdalena district, Socorro County **20:17**  
 Pennsylvania  
 French Creek mine (fibrous; in calcite; some "uralite" after pyroxene) **25:111, 25:113p**  
 Keystone Trappe Rock quarry, Chester County ("byssolite") **2:19n**  
 Virginia  
 Fairfax quarry, Fairfax County (acicular actinolite-tremolite, "byssolite") **3:174–178**
- 
- ADAMITE**
- Australia**  
 New South Wales  
 Kintore opencut, Broken Hill (cuprian; series with zincian olivenite) **19:427–428p,q**  
 South Australia  
 Beltana mine (glassy to 1 cm; some cuprian) **22:450–451c,d**
- Greece**  
 Kamaréza mine, Laurium (micro crystals, trillings) **7:122n**
- Mexico**  
 Chihuahua  
 Santa Eulalia (1 cm bipyramidal) **22:390n**  
 Durango  
 Ojuela mine **11:189, 17:341n, 20:237; 8 cm** euhedral, some purple **13:39; purple 13:181–183p; some purple 14:386; 2 cm** prismatic **22:390n**
- Namibia**  
 Tsumeb: adamite-olivenite series **10:113; cuprian 17:209p, 17:341n; cuprian adamite prob. Zn-olivenite 9:44; cuproadamite 15:112p; olivenite-"cuproadamite," crystals to 12 mm 12:45; some pink cobaltian, green cuprian 8:T18, 8:T48, 8:T68–69p**
- United States**  
 Arizona  
 Grandview mine, Coconino County **2:220n**  
 California  
 Kalkar quarry, Santa Cruz County **17:323**  
 Zinc Hill mine, Inyo County: cuprian, crystalline clumps **6:112, 6:113p; cuproadamite 15:13n**  
 Nevada  
 Gold Hill (yellow, green, blue 1 cm spheres) **14:56**  
 New Jersey  
 Sterling Hill mine: **13:38; cuprian 13:(37)**
- 
- ADELITE**
- Sweden**  
 Långban (micro crystals) **10:217**
- United States**  
 New Jersey  
 Franklin mine **10:160–161q**  
 Sterling Hill mine **13:(37)**
- 
- "ADULARIA"
- See Orthoclase*
- 
- AEGIRINE**
- Canada**  
 British Columbia  
 Ice River complex ("acmite"; emerald green to 10 cm) **12:225–226q**  
 Québec  
 DeMix quarry **18:(363)**  
 Mt. St-Hilaire: **17:147n; acicular 13:244; impaling various micro crystals 13:246–247p; other species impaled upon 10:103; prismatic and acicular 21:294p**  
 Poudrette quarry (with serandite) **18:363n**
- Greenland**  
 Narssárssuk **5:119, 5:120p**
- Malawi**  
 Mt. Malosa, Zomba district: crystals to 20 cm **25:29, 25:31c, 25:32p; terminated, to 8 cm 20:216, 22:390n**
- South Africa**  
 Cape Province  
 Black Rock mine: **22:281; "acmite" 9:150**
- Sweden**  
 Långban district manganoan, "schefferite" **9:(113)**
- United States**  
 Colorado, Wyoming, Utah  
 Green River formation ("acmite") **8:368–371**  
 New Jersey  
 Franklin/Sterling Hill ("jeffersonite") **19:274n**  
 Lincoln Park, Morris County (acicular "acmite," babingtonite poss. altering to) **12:382p**  
 New Mexico  
 Point of Rocks quarry, Colfax County **15:151**  
 Wind Mountain, Otero County **20:(60)**  
 Oregon  
 Summit Rock, Douglas County (yellow, some after hypersthene) **16:143n**  
 Washington  
 Washington Pass, Okanogan County (in quartz) **14:51n**
- 
- AESCHYNITE-(Ce), -(Nd), -(Y)**
- Austria**  
 Bockstein, Salzburg **8:291**  
 Kaiserer and Lohninger quarries, Salzburg **13:172p, 13:173n**
- Canada**  
 Ontario  
 Quadeville beryl-lyndochite quarry, Renfrew County ("lyndochite," crystals to 19 cm) **13:200h**
- Switzerland**  
 Seven localities **8:290p, 8:291**
- 
- AFGHANISTAN**
- Badakhshan **19:272s, 20:145s**  
 Dara Pech, Kunar **25:380s**  
 Farmggu (Firgamu) village, Kokcha River valley, Badakhshan **19:211s, 21:486n, 22:386s**  
 Firgamu (see Farmggu)  
 Gugali **21:487s**  
 Jegdalek, Sarobi **23:432s**  
 Kokcha River (see Farmggu)  
 Koona Valley **19:272s**  
 Korano Mujan, Konhar **23:432s**  
 Korgal deposit, north of Jalalabad, Laghman province **9:304m, 9:305–306g**  
 Kunar (near) (Kuhnar), Kunar province **11:315, 24:384s**  
 Laghman **19:271s**  
 Locality not specified further **20:397s**  
 Mawi deposit, north of Jalalabad, Laghman province **9:303m, 9:304–305g, 11:322s, 24:384s, 25:61s**  
 Nilaw deposit, north of Jalalabad, Laghman province **9:302–304g,m**  
 Nuristan (geographic region encompassing parts of Badakhshan and Laghman provinces), uncertain locality **21:486s**  
 Nuristan region, Laghman and Kunar provinces **9:301–308h,p,g,m**  
 Panzher Valley **24:384s**  
 Paprok (Paprock, Pavrok) prospect, Kamdesh, Nuristan, Kunar province **23:432s, 23:499s, 25:57–58s,h, 25:61s, 25:218s**  
 Paroc, near Pachigram, Kunar, Laghman **22:386s**  
 Pech, Laghman **22:386s**  
 Political situation (1978) **9:307–308h**  
 Sar E Sang, Nuristan **19:120s, 22:216s, 22:386s**
- 
- AFRICA**
- See also individual countries*  
 Central African tungsten province (Kigezi district, southwest Uganda; Rwanda; Maniema, Kivu districts, east Zaire) **12:81–87**  
*Mineral Economics of Africa* **19:206b**
- 
- AFWILLITE**
- Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district (tabular) **8:319d**
- South Africa**  
 Cape Province  
 N'Chwaning II mine **22:281n**  
 Wessels mine (clear prismatic to 4.5 cm) **22:281**
- United States**  
 California  
 Crestmore quarry, Riverside County **10:41**
- 
- AGARDITE-(La), -(Y)**
- Australia**  
 South Australia  
 Spring Creek mine ("chlorotile") **12:(107)**
- Italy**  
 Sardinia  
 Pala su Sciusciu, Santa Lucia (agardite-(Y)) **19:307**  
 Sa Duchessa (agardite-(Y)) **19:306–308q,p**  
 Santa Lucia (agardite-(Y)) **19:306–308q,p**  
 Su Sizzimareddu, Santa Lucia (agardite-(Y)) **19:307**
- Morocco**  
 Bou-Skour copper deposit: **8:(517); agardite-(Y); micro acicular; "mixite," "chlorotile" from other localities id as 1:30q,h**
- United States**  
 New Mexico  
 Red Cloud mines, Lincoln County: **11:69; agardite-(La) 20:61n, 22:384n**
- 
- "AGATE"
- See Chalcedony*
- 
- AGRELLITE**
- Canada**  
 Québec  
 Kipawa complex, Timiskaming County **8:(517), 19:(335)**
- 
- AGRINIERITE**
- France**  
 Margnac (newly described; minute crystals) **5:40–41h,d,c,q**
- 
- AGUILARITE**
- Mexico**  
 Guanajuato  
 San Carlos mine **8:(517)**
- 
- AHLFELDITE**
- Bolivia**  
 El Dragón mine, Potosí (green micro spheres) **21:140c,p,d**
- 
- AIKINITE**
- United States**  
 Arizona  
 Bisbee district **12:(289)**  
 Colorado  
 San Juan Mountains (2 localities) **10:357n**  
 Twenty-Six mine, Custer County (massive) **7:274**  
 Nevada  
 Outlaw mine, Nye County (masses to 5 cm; minute crystals) **22:177p**  
 Virginia  
 Chantilly quarry, Loudoun County (3 mm euhedral) **8:60–61p,q**

## GENERAL INDEX

- AJOITE**
- South Africa**  
Transvaal  
Messina mine: **18**:(244), **18**:(368); in quartz crystals **17**:209p, **22**:193, **22**:194–195p
- United States**  
Arizona  
New Cornelia mine, Pima County (crystals) **14**:286p, **14**:293h
- 
- AKERMANITE**
- South Africa**  
Cape Province  
Wessels mine **22**:281, **22**:296q
- 
- AKROCHORDITE**
- United States**  
New Jersey  
Sterling Hill mine **13**:(37)
- 
- AKTASHITE**
- Canada**  
Ontario  
Hemlo gold deposit **17**:(340)
- 
- ALABAMA**
- Bibliography of locality literature **18**:211–212  
Bibliography of mineralogy literature **10**:13–14  
Bluffton, Cherokee County **5**:241  
Coosa County (pegmatite) **4**:116s  
Early gold discoveries and rushes **18**:65–66h  
Indian Mountain, Cherokee County **5**:241–244h,g,  
**9**:388–390s, **20**:355–362p,m,h,g  
Jacksonville (road cut northwest of), Calhoun  
County **9**:390–391s  
Lake Martin, south of Alexander City, Elmore  
County **9**:391s  
Lowe farm, north of Leesburg, Cherokee County  
**21**:209s  
Pell City, St. Clair County **9**:391s  
Pinetucky mine, Randolph County **18**:71–72g,h  
Rock Run Station, Indian Mountain, Cherokee  
County **5**:241, **9**:388s, **9**:389s, **20**:358–361s  
Tecumseh Furnace, Cherokee County **5**:241  
Williams pegmatites, west of Pentonville, Coosa  
County **6**:66–73m,h,g,p, **25**:214s  
Wolfden Mountain, southwest of Rock Run **9**:388s  
Wood Copper mine, near Micaville, Cleburne  
County **9**:391s
- 
- ALABANDITE**
- Canada**  
Québec  
Poudrette quarry: **21**:(486); 1 mm crystals  
**21**:294
- Russia (formerly USSR)**  
Alakhjun, Yakutia (3 cm cleavages) **22**:393n
- United States**  
Arizona  
Higgins mine, Bisbee district **12**:289–290  
Junction shaft, Bisbee district **12**:289–290  
Lucky Cuss mine, Tombstone district (masses)  
**11**:251, **11**:253  
Colorado  
Argentine Pass area, Summit County (crystals) **7**:284n  
Dunmore mine, Ouray County **10**:357n  
Italian Mountain area, Gunnison County  
**15**:86n  
Whale mine (southeast of), Park County **1**:101  
New Mexico  
Hansonburg district, Socorro County **20**:(35)  
North Carolina  
Bald Knob, Alleghany County (grains) **12**:171
- 
- ALAMOSITE**
- Namibia**  
Tsumeb: **8**:(390), **9**:(113), **13**:143p; crystals to  
3.5 cm **6**:251p; crystals to 3 mm **8**:T18,  
**8**:T48, **8**:T58p
- United States**  
Arizona  
Mammoth mine, Pinal County (sheaves,  
spheres) **11**:170
- 
- ALASKA**
- Bibliography of locality literature **18**:212  
Bibliography of mineralogy literature **10**:14  
Brooks Mountain, Seward Peninsula **4**:27s  
Claim #1 (near Discovery claim) **18**:83s  
Copper Mountain district, Prince of Wales Island  
**8**:4–12h,p,m,g  
Discovery claim, Anvil Creek, Cape Nome **18**:83s  
Green Monster Mountain area, east of Copper  
Mountain district, Prince of Wales Island **8**:4–  
12h,p,m,g, **23**:280s  
Jumbo mine, Copper Mountain district, Prince of  
Wales Island **8**:4–9h,m,g  
Kuiu Island, off Cornwallis Peninsula **18**:359s,  
**19**:113s  
Localities not specified **13**:356s, **13**:368s  
Manley Hot Springs area, near Arctic Circle  
**21**:481s  
Prince of Wales Island: **8**:4–12h,p,m,g, **19**:331s;  
collecting policy **8**:380  
Rocky Pass, near Kuiu and Kupreanof islands  
**24**:381s  
Sitka (island near) **19**:331s  
Zarembo Island, off Cornwallis Peninsula **19**:113s
- 
- “ALASKAITE”**
- See Pavonite*
- 
- ALBERTA**
- Athabasca (near) **23**:428s  
Crownsnest Pass, Coleman **15**:93  
Willow Creek, near Nanton **24**:49s
- 
- ALBITE**
- Perthite terminology summary **21**:239  
Variety “cleavelandite” **1**:49–50h, **19**:150h
- Australia**  
Victoria  
Bendigo **18**:29n  
Woods Point **18**:29n
- Austria**  
Knappenwand, Salzburg (on “byssolite” actino-  
lite) **17**:177p  
Schwemmoisl quarry, near Deutschlandsberg,  
Steiermark (Styria) **17**:(106)
- 
- Brazil**
- Minas Gerais  
Campo do Boa, northwest of Capelinha  
(groups to 25 cm) **5**:226, **5**:228p  
Córrego do Urucum pegmatite (molds after  
spodumene) **17**:309  
Córrego Frio mine, near Linópolis **14**:232  
Itatiaia mine, near Conselheiro Pena (tabular  
to 5 cm) **9**:298  
Jaguarauçu mine (crystals to 8 cm) **25**:168  
Morro Velho mine: **2**:10n; clear tabular to 5  
cm **4**:224p, **5**:226  
Pitorá mine, near Galileia (large bladed  
“cleavelandite”) **21**:412n  
Urubu pegmatite, Araquai area **12**:75n  
Virgem da Lapa (near) (“cleavelandite”) **13**:25p, **13**:27
- Paraíba  
Alto Benedito pegmatite, northwest of Picuí  
(platy) **22**:184n
- 
- Canada**
- Ontario  
Davis Hill (albite-antiperthite; sharp crystals  
to 15 cm) **21**:238ff,c,q,d  
Quadeville beryl-lyndochite quarry, Renfrew  
County (some “peristerite”) **13**:200p  
Silver Crater mine, near Bancroft (crystals to  
30 cm) **10**:155n  
Tory Hill (near) (“peristerite”) **13**:77n
- Québec  
Cantley (near McGregor Lake) **19**:334n  
Mt. St-Hilaire: **13**:244n, **21**:294p; with cal-  
cite in grossular **19**:325  
Orford mine (micro crystals) **25**:334–335  
Sherbrooke area roadcuts **20**:212–213p,d,c,  
**20**:215p  
Windsor, near Sherbrooke **18**:(363)
- 
- England**  
Cornwall  
Lanterdan quarry, Tintagel **20**:395
- 
- France**  
Glacier des Lanchettes, Massif Mont Tondu  
(clear to 1.5 cm) **9**:133
- 
- Greenland**  
Kangerluarsuk (“analcitized”) **5**:123  
Narsárssuk (Carlsbad twin) **5**:119, **5**:120p
- 
- Italy**
- Lombardy  
Baveno area (usually oriented on orthoclase)  
**14**:158–161c,d
- Sicily  
Lachea, Cyclopean Islands **17**:205n
- Tuscany  
Buca della Vena mine **17**:(263)  
Calagio quarry, Carrara region **18**:288p  
Carrara region (some with orthoclase on)  
**18**:288–289c,d  
Elba (some oriented on orthoclase) **16**:355–  
356d
- 
- Madagascar**  
Anjanabonoina **20**:195
- 
- Malawi**  
Mt. Malosa region (on K-feldspar) **25**:31c
- 
- Norway**  
Hotvedt, Sandefjord (on microcline) **20**:397
- 
- Pakistan**  
Gilgit division (“cleavelandite”) **16**:402  
Stak Nala (near), Gilgit division (“cleavelandite”  
on elbaite) **16**:405p
- 
- South Africa**  
Transvaal  
Messina district (reddish) **22**:193
- 
- Tanzania**  
Moshi **20**:398
- 
- United States**
- Arizona  
Bisbee district **12**:290n
- California  
Benitoite Gem mine, San Benito County  
(micro crystals) **8**:450n  
Himalaya dike system, San Diego County  
**8**:466  
Himalaya mine, San Diego County (“cleave-  
landite” on elbaite) **16**:420p  
Jensen quarry, Riverside County (to 8 cm)  
**15**:282  
Little Three mine, San Diego County **18**:(360),  
**20**:109–110q  
New Melones Lake spillway, Calaveras  
County (clear euhedral to 2 cm) **13**:297q,  
**13**:298, **13**:300p  
White Queen mine, San Diego County:  
**20**:399; “cleavelandite” **8**:512
- Colorado  
Italian Mountain area, Gunnison County (red  
UV fl.) **15**:80  
Pikes Peak batholith (with amazonite)  
**10**:376–378  
Sheepshead, Crystal Park area, El Paso  
County (5 cm crystals) **16**:223  
Ten-Percenter mine (Key-hole vug), Teller  
County (with “amazonite”) **18**:148–150p
- Idaho  
Centerville, Sawtooth Mountains (Baveno  
twins) **19**:332n

## GENERAL INDEX

- Maine**  
 Bennett quarry, Oxford County ("cleavelandite") **25:179**  
 Mt. Mica, Oxford County ("cleavelandite") **16:369–370n**
- New Hampshire**  
 Government pit, Carroll County **14:(47)**  
 Palermo mine, Grafton County ("cleavelandite") **5:278n**
- New Jersey**  
 Buckwheat open pit, Franklin (twinned) **14:185p**  
 Chimney Rock quarry, Somerset County **9:31n**  
 Oxford quarry, Warren County (3 mm complex twin) **14:43–44p,c,q**  
 Paterson area, Passaic County (various unusual habits) **9:165, 9:166p, 9:171p**
- New Mexico**  
 Harding mine ("cleavelandite") **8:120, 20:(64)**
- Pennsylvania**  
 Keystone Trappe Rock quarry, Chester County **2:19n**
- Wisconsin**  
 Rib Mountain, Marathon County (many twinned, to 3 cm; some "cleavelandite") **12:96**
- 
- ALGERIA**  
 Djebel Hamimat, Constantine **24:233s**  
 Djebel Nador: **24:235s**; locality corrected to Nador, Morocco **25:50**
- 
- ALGODONITE**
- Namibia**  
 Tsumeb: massive **8:T18n**; with native lead, probably smelter product **13:145**
- United States**  
 Arizona  
 Bisbee district (unconfirmed) **12:(315)**
- 
- ALLACTITE**
- Sweden**  
 Långban district (2.5 cm crystals, green in sunlight, purple in artificial light) **1:170**  
 Nordmarks Odalfält mines, Värmland **1:165n, 22:(51)**
- United States**  
 New Jersey  
 Franklin **14:251–252p,q**  
 Sterling Hill mine: **14:251–252p,q, 19:274n**;  
 5 mm crystal **13:36p**
- 
- ALLANITE-(Ce), -(Y)**
- Metamict **4:220**
- Australia**  
 Queensland  
 Mary Kathleen deposit: **19:489**; micro **4:143**  
 South Australia  
 Wallaroo mines **19:(412)**
- Austria**  
 Five localities **8:291**
- Canada**  
 Ontario  
 Cardiff mine, near Wilberforce **13:72n**  
 Craigmont corundum mine, Renfrew County **13:(202)**  
 Faraday (Madawaska) mine, near Bancroft **13:84**  
 Highway 62 roadcut north of Bancroft **13:(111)**  
 J. G. Gole quarry, near Madawaska **13:84**  
 Long Lake, Frontenac County (10 cm euhedral) **13:72p**  
 MacDonald mine, near Hybla: **13:84**; masses to 30 cm **10:158**  
 Quadeville area **13:84**
- Québec  
 Evans-Lou pegmatite (crystals to 1.2 m) **3:70n**
- Jeffrey mine **9:249, 10:76n**  
 Mt. St-Hilaire (allanite-(Ce), tabular to 4 mm) **21:294**  
 Orford mine (allanite-(Ce); micro) **25:335p,q**  
 Yates mine, Pontiac County (blades, crystals to 12 cm) **12:360, 12:361p**
- France**  
 Tremorius mine, Ariège: 1 cm blades **25:215n**;  
 2 cm prismatic **22:225**  
 Trimouns quarry: gemmy micro **25:209p**; 2.5 cm prismatic **21:489n**
- Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district: **10:95p**; tabular **8:319d,c**
- Italy**  
 Five localities **8:291**  
 Lombardy  
 Baveno area (1 cm crystals) **14:160**  
 Tuscany  
 Buca della Vena mine **17:263**
- Norway**  
 Hundholmen, Tysfjord, Nordland **22:52n**
- Switzerland**  
 Four localities **8:291**
- United States**  
 Arizona  
 Bisbee district **12:(290)**  
 New Cornelia mine, Pima County **14:293n**
- California  
 Jensen quarry, Riverside County **15:287n**  
 Kalkar quarry, Santa Cruz County (anhedral) **17:324**
- Colorado  
 Crystal Peak area, Park/Teller counties **16:(227), 16:230p**  
 Italian Mountain area, Gunnison County **15:86n**  
 Saint Peter's Dome area, El Paso County **16:(227)**
- Connecticut  
 Flat Rock quarry, New London County (allanite-(Ce)) **19:332n**  
 Haddam Neck, Middlesex County (allanite-(Ce)) **19:332n**  
 Linkpot (allanite-(Ce)) **19:332n**
- Georgia  
 Boly Field mine, Lumpkin County (with gold) **18:(68)**
- Maine  
 Franklin (allanite-(Ce)) **19:332n**
- Montana  
 Snowbird mine, Mineral County (allanite-(Ce); crystals) **8:84**
- New Hampshire  
 Government pit, Carroll County **14:(47)**
- New Jersey  
 Bulls Ferry Road, North Bergen, Hudson County (micro) **22:384n**
- New Mexico  
 Harding mine (crystals) **8:123n**  
 Mina Tiro Estrella, Lincoln County: **20:61**;  
 allanite-(Ce) **20:51–52**  
 Smokey Bear claims, Lincoln County (prob. id) **22:363**
- Texas  
 Baringer Hill quarry, Llano County (masses to 135 kg) **7:182**  
 Clear Creek pegmatite, Burnet County (crystals, masses) **8:90**
- 
- ALLARGENTUM**
- Australia**  
 Queensland  
 Mt. Isa mine **19:478**
- Canada**  
 Ontario  
 Glen Lake mine, Cobalt **9:(114)**
- "ALLCHARITE"  
 Discredited as goethite **1:136h**
- 
- ALLEGHANYITE**
- United States**  
 Colorado  
 Eureka district, San Juan County **10:357n**
- New Jersey  
 Sterling Hill (highly magnesian) **15:299–302p,c,d,q**
- North Carolina  
 Bald Knob (southeast of), Alleghany County: 5 mm grains **2:43**; grains resembling garnets **12:169, 12:170q**
- 
- ALLOCLASITE**
- Australia**  
 Queensland  
 Mt. Isa mine **19:478**
- 
- ALLOPHANE**
- Amorphous*
- Bolivia**  
 El Dragón mine, Potosí (white, blue masses) **21:140**
- Greece**  
 Kamaréza mine, Laurium (coatings, masses) **7:122n**
- Italy**  
 Niccioleta mine, Tuscany (crusts) **10:284**
- New Zealand**  
 Tui mine (waxy masses) **6:29**
- United States**  
 Arizona  
 Bisbee district **12:290n**  
 Mammoth mine, Pinal County (includes all clays not otherwise identified) **11:159**  
 New Cornelia mine, Pima County (coatings) **14:293n**
- New Mexico  
 Kelly mine, Socorro County **20:17**
- 
- ALLUAUDITE**
- In pegmatite environments **4:111–112**  
 Numerous world localities **4:112, 4:118**
- Brazil**  
 Minas Gerais  
 Énio pegmatite, near Galiléia **12:70**
- United States**  
 Colorado  
 Krystal Krown, Purple Haze, and Rainbows End claims, Larimar County **22:382n**
- New Hampshire  
 Palermo mine, Grafton County ("hühnerkobelite") **5:278n**
- South Dakota  
 Tip Top mine, Custer County **17:239**
- 
- ALMANDINE**
- Brazil**  
 Paraíba  
 Serrote Redondo, south of Pedra Lavrada (to 3 cm in quartz nodules) **22:387n**
- Pakistan**  
 Dusso and Shingus pegmatites, Gilgit division **16:406c,q**  
 Haramosh Mountains, Gilgit division **19:128–129q**  
 Shingus pegmatites, Gilgit division **19:129q**
- South Africa**  
 Cape Province  
 N'Chwaning mine **15:45n**
- Transvaal  
 Messina district **22:193**
- United States**  
 California  
 Jensen quarry, Riverside County **15:287n**

## GENERAL INDEX

- Lakeview Mountain pegmatite, Riverside County **20:387**
- Little Three pegmatites, San Diego County (almandine-spessartine) **20:119–121p,q,c**
- Petaluma (near), Sonoma County **8:433n**
- Colorado
- Ruby Mountain, Chaffee County (almandine-spessartine) **18:198q**
- Connecticut
- Becker quarry, Tolland County **25:377n**
- Georgia
- Battle Branch mine, Lumpkin County (gold on and in) **18:69–70**
- Idaho
- Emerald Creek garnet area, Benewah County (crystals to 5 cm; asteriated) **11:57h**
- Massachusetts
- Chester emery mines (near) **9:241**
- Maine
- Bennett quarry, Oxford County (almandine-spessartine grains) **25:181–182q**
- Bowker prospect, Mt. Mica, Oxford County **16:384p**
- Mt. Mica, Oxford County **16:372n**
- Nevada
- Garnet Hill, White Pine County (intermediate almandine-spessartine-grossular-py-rope) **18:197–198p,q**
- New Hampshire
- Pearl Lake, Grafton County **25:377n**
- New Mexico
- Harding mine **8:122**
- New York
- Barton garnet mine, Warren County (rough crystals to 1 m) **5:238**
- Pennsylvania
- Avondale, Delaware County (2.5 cm crystal) **1:38n**
- Utah
- Garnet Basin, Juab County (almandine-spessartine) **18:198n**
- Wisconsin
- Rib Mountain, Marathon County (to 5 mm) **12:96**
- 
- ALPINE CLEFT MINERALOGY**
- Austria **17:105–107, 17:174–180**
- Die alpinen Klufminerale der österreichischen Ostalpen* **8:66b**
- Governador Valadares (near), Brazil **22:387n**
- Keystone Trappe Rock quarry, PA **2:19–21**
- Oxford quarry, NJ **14:43–44**
- Putney (north of), VT **22:384n**
- Rare-earth minerals: **8:287–293; Switzerland 1:98–100**
- Sherbrooke, Québec (near) **20:209–220**
- Switzerland (central) **19:126b**
- Theme of 1993 Munich show **25:137**
- 
- ALSTONITE**
- England**
- Cumbria
- Alston **1:(84)**
- Nentsberry Hags mine, Nenthead (calcite after, to 1 cm) **25:44n**
- United States**
- Illinois
- Minerva #1 mine, Hardin County (crystals to 2 mm) **5:266–269p,q**
- 
- ALTAITE**
- Australia**
- Western Australia
- Kalgoorlie **18:(28)**
- Romania**
- Stanija (formerly Sztanisza) mine, western Transylvania gold district **13:(374)**
- United States**
- Arizona
- Campbell shaft, Bisbee district **12:290**
- California
- Birney mine, near Sawmill Flat, Tuolumne County **18:63c**
- Golden Rule mine, Tuolumne County **18:63d**
- Hidden Treasure mine, Tuolumne County (with gold) **18:43p, 18:63c**
- Sell mine, Tuolumne County **18:63**
- Colorado
- Brooklyn mine, Silverton district (crystals) **10:331**
- Revenge mine, Boulder County (2 cm cubic crystal) **7:280**
- Silverton district, San Juan County **10:357n**
- 
- ALTHAUSITE**
- Norway**
- Åmot, Buskerud **8:(390)**
- Skutterud, Modum **8:(390)**
- 
- ALUMINITE**
- Chile**
- Chuquicamata **9:329**
- United States**
- Arizona
- Bisbee district (unconfirmed) **12:(315)**
- 
- ALUMOHYDROCALCITE**
- Several world localities **6:181–182**
- United States**
- California
- Mt. Hamilton area, Santa Clara County (chromian; “knipovichite” discredited as) **6:180–183p,h,q**
- 
- ALUMOTUNGSTITE**
- Formula proposed **12:84–85p,q**
- Malaysia**
- Kramat Pulai mine, Kinta, Perak **12:84h**
- Rwanda**
- Gifurwe mine (micro octahedral) **12:84p**
- Uganda**
- Kirwa mine, Kigezi (hollow octahedral “skin”) **12:85p**
- Nyamulilo mine, Kigezi (micro octahedral, one twin) **12:84–85p**
- 
- ALUNITE**
- Bolivia**
- El Dragón mine, Potosí (white micro spheres) **21:140**
- Chile**
- Chuquicamata (some jarosite after) **9:328**
- United States**
- Arizona
- Bisbee (masses, boulders; 4 mines) **12:290**
- New Cornelia mine, Pima County (massive) **14:293–294**
- Tombstone district, Cochise County (drusy) **11:255n**
- Colorado
- National Belle mine, Ouray County (id as natroalunite) **17:232n,17:233d**
- Red Mountain district, Ouray County **10:357n**
- Georgia
- Graves Mountain (massive) **16:446**
- 
- ALUNOGEN**
- Chile**
- Chuquicamata **9:328**
- Italy**
- Tuscany
- Cetine mine **15:28, 15:29p**
- United States**
- California
- Stayton mine, Stayton Mining district **20:432p**
- Nevada
- Steamboat Springs, Washoe County (2 mm crystals) **16:31n**
- 
- ALVITE**
- Inadequately defined species*
- Norway**
- Helle **2:52**
- 
- AMARANTITE**
- Chile**
- Chuquicamata **9:329**
- “AMAZONITE”
- See Microcline*
- 
- AMBLYGONITE**
- Austria**
- Millstätter Seenrücken, Carinthia **17:(110)**
- Brazil**
- Minas Gerais
- Cruzeiro mine (massive) **11:370**
- Enio pegmatite, near Galiléia (euhedral to 6 cm) **12:70**
- Galiléia (near): **9:316; yellow crystals to 4 cm 9:41**
- Jove Lauriano prospect, Divina das Laranjeiras **14:(235), 20:(187)**
- Lavra da Ilha, near Taquaral: **12:74; euhedral to 11 cm 4:211–212p**
- Linópolis (twinned) **11:317n**
- Pamaró mine, near Linópolis **14:234n**
- Sandspar’s mines, near Taquaral (euhedral to 10 cm) **2:10n**
- Telfrio mine, near Linópolis **14:234n**
- Urubu pegmatite, Araçuaí area (100-kg masses) **12:77**
- Velha mine, Araçuaí area (crystals to 20 cm) **12:74**
- Paraíba
- Alto Benedito pegmatite, northwest of Picuí (massive) **22:184n**
- United States**
- Maine
- Bell Pit, Oxford County: micro bladed, blocky **6:195p, 6:198, 6:202n; micro laths 1:114p**
- Bennett quarry, Oxford County (nodules of amblygonite-montebrazite) **25:179**
- Dunton mine, Oxford County (fishtail twins) **6:198**
- Rose quartz crystal area, Oxford County (yellow; “brazilianite” id as) **6:198**
- New Mexico
- Harding mine (unconfirmed) **8:124**
- South Dakota
- Beecher lode, Custer County (masses to 200 T) **4:110**
- Tin Mountain mine, Custer County (euhedral to 30 cm) **4:110**
- 
- AMESITE**
- Russia (formerly USSR)**
- Sarany, Ural Mountains (4 cm crystals) **21:492n**
- United States**
- Arizona
- Mammoth mine, Pinal County **11:159**
- California
- Kalkar quarry, Santa Cruz County **17:324n**
- Massachusetts
- Chester emery mines **9:236**
- 
- AMPHIBOLE GROUP**
- See also names of individual species*
- Identification by pleochroism **10:252**
- Canada**
- Ontario
- Grenville province **13:72–73q**
- Tory Hill (black, doubly terminated) **21:485n**

## GENERAL INDEX

- Québec  
Gatineau Park (Chaput-Payne prospect),  
Gatineau County (blue acicular; fibrous)  
**11:80**
- Germany**  
Rheinland-Pfalz  
Laacher See area, Eifel district **8:319–320d**
- Greece**  
Laurium **17:187n**
- United States**  
New Jersey  
Paterson area, Passaic County (“mountain  
leather”) **9:173**  
New York  
Powers farm, Pierrepont, St. Lawrence County  
**17:342n**
- 
- ANALCITE**
- Australia**  
New South Wales  
Ardglen quarry **19:398p**  
Ben Lomond **19:403c**  
Garrawilla **19:394**  
Prospect quarry (crystals to 4 cm) **25:188p**  
Victoria  
Flinders area **12:(108), 19:454, 19:459p**  
Kennon Head, Phillip Island **19:454**  
Phillip Island **19:458p**
- Brazil**  
Santa Catarina  
Lages (south of) **2:13n**
- Canada**  
Alberta  
Crownsnest Pass, near Coleman (large, flesh-  
colored and black) **15:93**  
British Columbia  
Ice River complex (massive) **12:224**  
Monte Creek, Kamloops district **19:333n**  
Yellow Lake area, near Olalla **15:(93)**  
Québec  
DeMix quarry **6:250p, 18:(363)**  
Mt. St-Hilaire: **17:147n; dodecahedral 13:246;**  
elongated **13:244n; golfball size 13:245;**  
to 25 cm **21:294–295p,d**
- Denmark**  
Eysteroy, Færoe Islands (crystals over 3 cm)  
**12:14**  
Stremoy, Færoe Islands **12:14n**
- Greenland**  
Kangerluarsuk (“analcitized” albite) **5:123**  
Narsarsuk (massive) **5:119**
- Iceland**  
Eight localities **12:14p**
- Ireland**  
Locality not specified (micro) **10:173**
- Italy**  
Sicily  
Lachea, Cyclopean Islands **17:205**
- Russia (formerly USSR)**  
Iakouti, Siberia **20:(398)**  
Siberia (locality not specified) (30 cm crystal)  
**25:219**  
Tunguska, Siberia **23:433, 24:226**
- South Africa**  
Transvaal  
Artonvilla mine, Messina district **22:193**  
Messina district (clay-like) **22:193**  
Palabora mine (to 4 mm) **22:257p**
- United States**  
Arizona  
Horseshoe Dam area, Maricopa County  
**14:116**  
Santa Maria River, Yavapai County **15:109n**  
California  
Boron, Kern County (micro) **2:37n**  
Tick Canyon, Los Angeles County **8:433n**
- Colorado  
Italian Mountain area, Gunnison County  
**15:86n**  
Table Mountain, Jefferson County **19:161–**  
**164p,q,d**  
Wolf Creek Pass, Mineral County **7:272**  
Colorado, Wyoming, Utah  
Green River formation **8:368–371**  
Michigan  
Copper Falls mine, Keweenaw County (red  
crystals) **14:225**  
Keweenaw Peninsula (several localities listed)  
**14:225**  
New Jersey  
Bound Brook quarry, Somerset County (fist-  
sized) **4:77**  
Chimney Rock quarry, Somerset County  
(crystals to 8 cm) **9:29p**  
Paterson area, Passaic County (crystals to 6.2  
cm) **9:171, 9:174p**  
Route 80 roadcut, Passaic County (red, white)  
**1:173**  
New Mexico  
Gila River, Grant County **20:59n**  
Point of Rocks quarry, Colfax County (opaque  
white, gray) **15:151**  
Wind Mountain, Otero County **20:60n**  
Oregon  
Eckman Creek quarry, Lincoln County (crys-  
tals to 12 mm) **1:173, 1:176p**  
Texas  
248 mine, Brewster County (micro) **21:227n**  
Washington  
Skookumchuck Dam, Thurston County (crys-  
tals to 3.8 cm) **3:33**  
Wyoming  
Yellowstone National Park (analcite-waira-  
kite; micro) **12:32–33p**
- 
- ANAPAITE**
- Four world localities **25:296**
- Italy**  
Tuscany  
Castelnuovo and Allori mines, Upper Val-  
darno (micro crystals) **25:296p,d,c**
- Ukraine (formerly USSR)**  
Crimea **22:221**  
Kertch **21:(492)**
- 
- ANATASE**
- Austria**  
Grieswies area, Salzburg **13:173**
- Brazil**  
Minas Gerais  
Fazenda Guariba: **17:192n; rutile after**  
**17:193–194p**  
Jaguarçu mine (powdery pisolitic) **25:168**  
Lavrinha **20:146**  
Minas Novas **17:207–208n**  
Paiolinho, Tapira (1 cm dipyrimal) **2:10n**
- Canada**  
Ontario  
Cardiff mine, Wilberforce area (after titanite)  
**13:80**  
Faraday (Madawaska) mines, near Bancroft  
(some after ilmenite) **13:76c**
- Québec  
Mt. St-Hilaire: **13:244, 19:325–326n,p; eu-**  
hedral to 5 mm **21:295d**  
Poudrette quarry (micro cloverleaf-shaped  
tabular) **25:210**  
Sherbrooke area roadcuts **20:213–214p,d,c**  
Windsor, near Sherbrooke **18:(363)**
- Yukon  
Crosscut Creek, Rapid Creek area (1 mm  
crystals) **23:Y13–15q,d,c**
- France**  
Glacier des Lanchettes, Massif Mont Tondu  
(blue to 5 mm) **9:133**
- Italy**  
Liguria  
Monte Brigaceto, near Genoa: **19:(337); with**  
large orange brookite **15:41**  
Lombardy  
Valle Antigoria, near Baceno (blue/yellow)  
**15:41n**  
Tuscany  
Buca della Vena mine **17:264c**  
Crestola Bassa quarries, Carrara region  
**18:283p,c**  
Grotta del Guerrino, near San Piero in Campo,  
Elba **16:(358)**  
Val d’Aosta  
Val Vény, Monta Bianco (blue to 1.5 cm)  
**11:318**
- Norway**  
Hardangervidda region: **20:73n; 2 cm red**  
gemmy **10:121**  
Kongsberg **17:(35)**  
Locality not specified **20:397**  
Matskorhae, Ullensvang, Hordaland: **17:392n,**  
**20:299–300; blue, black to 13 mm 8:269–**  
**270p**  
Oslo region **3:10p**  
Tysse, Hardangervidda region (sharp 1 cm)  
**7:130–131, 7:132p**  
Valdres region **20:483**
- Russia (formerly USSR)**  
Dodo **20:74n**
- Switzerland**  
Alp Lercheltini, Binntal (5 cm crystal) **9:133p**  
Binntal, Valais (4.5 cm crystal) **9:133p**  
Grapsteigberg, Graubünden (yellow to 2.5 cm)  
**9:57**
- United States**  
Arizona  
Bisbee district **12:290n**  
New Cornelia mine, Pima County (minor)  
**14:294n**  
Colorado  
Indiana vein, Ouray County (minute crystals)  
**25:372–373p**  
Old Lot mine (north of), Gunnison County (3  
cm black to gemmy blue crystals) **14:246**  
Ores and Metals mine, Ouray County **19:99–**  
**100, 19:103–104p,d**  
Vulcan mine, Gunnison County (2.5 cm  
gemmy blue crystals) **7:294n**  
Massachusetts  
Somerville **20:(397)**  
Nevada  
Majuba Hill mine (grains) **16:62n**  
New Jersey  
Buckwheat open pit, Franklin (micro) **14:185**  
South Carolina  
Tigerville, Greenville County (after poss.  
titanite) **1:119**  
Utah  
Thomas Range (pale green micro) **16:143n**  
Vermont  
Putney (north of), Windham County (micro)  
**22:384n**  
Wisconsin  
Rib Mountain, Marathon County (crystals to  
7 mm) **12:95**
- Wales**  
Clwyd  
Hendre quarry, Glyn-Ceiriog **19:337n, 20:395**
- 
- ANCYLITE-(Ce)**
- Brazil**  
São Paulo  
Jacupiranga mine **15:264**

## GENERAL INDEX

- Canada**  
 British Columbia  
 Ice River complex (euhedral to 2.5 mm) **12:225**  
 Ontario  
 Desmont mine, near Wilberforce **13:225n**  
 Québec  
 Mt. St-Hilaire: **10:103**, **13:(244)**, **13:247p**;  
 and bastnäsite after parsite **2:141**; euhedral  
 to 6 mm **21:295–296d,c**, **21:297p**
- Greenland**  
 Narssârssuk: **2:18h**; crystals to 1 mm **5:119**
- Norway**  
 Oslo region **3:9p**
- United States**  
 Pennsylvania  
 Keystone Trappe Rock quarry, Chester  
 County **2:19–25ff,h,p,d,c,q**
- 
- ANDALUSITE**
- Brazil**  
 Bahia  
 Morro do Chapéu prospect, Chapada Diaman-  
 tina region (gemmy green) **16:112n**  
 Serra do Porco Gordo prospect, Chapada  
 Diamantina region (gemmy) **16:(113)**  
 Minas Gerais  
 Santa Maria, Cruzeiro Novo **2:10n**
- Italy**  
 Tuscany  
 San Piero in Campo area, Elba **16:356**
- United States**  
 California  
 Beverly Hills, Los Angeles County **19:331n**  
 Champion mine, Mono County (crystals to  
 10 cm) **8:478–480**, **8:482p**  
 Georgia  
 Graves Mountain (anhedral) **16:446–447**  
 New Mexico  
 Harding mine **8:123n**  
 Hardscrabble mine, Socorro County **20:17**  
 Pennsylvania  
 Upper Prudence **1:38n**  
 Virginia  
 Campbell County (50 cm long) **19:333n**
- 
- ANDERSONITE**
- England**  
 Cornwall  
 Peeth lode, Geevor (efflorescences) **25:44n**
- “ANDESINE”  
*See Plagioclase Series*
- 
- ANDORITE**
- Bolivia**  
 San José and Ito mines, Oruro district: crystals  
 to 3 cm **6:134**; crystals to 12 mm **14:389p**
- Czech Republic (formerly Czechoslovakia)**  
 Třebso deposit (T-1 vein), Příbram district  
 (crystals to 1 mm) **22:210p,q**
- France**  
 Les Farges mine, near Ussel, Corrèze **13:(267)**
- Peru**  
 Herminia, Julcani district **5:(219)**
- United States**  
 California  
 Monitor-Mogul district, Alpine County  
 (minute grains) **22:36n**  
 Thompson mine, Inyo County **15:13**
- 
- ANDRADITE**
- Afghanistan**  
 Nuristan (uncertain locality) (green-brown to 3  
 cm) **21:486n**
- Austria**  
 Knappenwand, Untersulzbachtal, Salzburg  
**17:177**
- Azerbaijan (formerly USSR)**  
 Dashkesan **20:74n**
- Brazil**  
 São Paulo  
 Jacupiranga mine **15:26**
- Canada**  
 Alberta  
 Crowsnest Pass, near Coleman **15:93**  
 British Columbia  
 Ice River complex (subhedral) **12:224**  
 Ontario  
 Marmoraton mines: **13:111n**; andradite-gros-  
 sular **13:75**  
 Québec  
 Marbridge mine, Malartic district (yellow to  
 5 mm) **7:177**  
 Mt. St-Hilaire: **21:296**; 3 mm euhedral  
**13:244p**  
 Orford mine (micro) **25:335q**, **25:342p**
- Chile**  
 Tierra Amarilla, near Copiapó (black crystals to  
 4 cm) **10:123**
- England**  
 Devon  
 Meldon quarry **21:492n**
- Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district (black, yel-  
 low) **8:319d**
- Greece**  
 Koutalas, Seriphos (“melanite”) **19:124n**  
 Mega Xhorio, Seriphos **18:(366)**, **19:(337)**,  
**20:395**  
 Seriphos **22:304**, **22:307p**
- Greenland**  
 Gardiner complex (“melanite”; some with in-  
 cluded apatite sprays) **16:490–492d,c,p**
- Italy**  
 Lombardy  
 Rocca Castellacio, Val Malenco **10:87**  
 Val Malenco (“demantoid”) **3:120–122p,d**  
 Tuscany  
 Niccioleta mine (near) **10:286**
- Mexico**  
 Chihuahua  
 Ojos Españoles mine, near Ciudad Lazara  
 Cardenas (black, to 4 cm) **15:313**  
 Sonora  
 Sierra Madre Mountains (iridescent) **25:212p**,  
**25:215**  
 South-central (locality not specified) (bright  
 green, some hopped, some 20 cm spherical  
 shells) **16:303–304p**
- Pakistan**  
 Tribal area **20:397**
- Russia (formerly USSR)**  
 Cheguyva (Czegujewa), near Tetyukhe (Tet-  
 juche), Siberia **18:432n**
- South Africa**  
 Cape Province  
 Black Rock mine **22:(281)**  
 Hotazel mine **22:(281)**  
 Kalahari manganese field **9:150**, **22:296q**  
 N’Chwaning II mine (tiny) **22:281**  
 Wessels mine: **20:398**; red to 1.5 cm, green  
**22:281**
- United States**  
 Alaska  
 Jumbo mine (near), Prince of Wales Island  
 (to 7 cm) **8:6**  
 Arizona  
 C-thon prospect (greenish yellow to 19 mm)  
**14:389–390p**  
 Dripping Springs Mountains, Gila County  
 (brown) **21:481n**  
 Iron Cap mine, Graham County **19:(87)**
- Lowell shaft, Bisbee district **12:290**  
 79 mine **3:255**
- California**  
 Benitoite Gem mine (near), San Benito  
 County (yellow; black) **8:432n**  
 Darwin district, Inyo County **15:13n**  
 Garnet Hill, Calaveras County **18:360n**  
 Junnila mine, San Benito County (dodecahe-  
 dral to 1 cm) **8:519p,q**  
 Kalkar quarry, Santa Cruz County **17:324**  
 New Idria district, San Benito County (vari-  
 ous colors) **8:282**
- Colorado**  
 Italian Mountain area, Gunnison County  
**15:80**
- Nevada**  
 Tonopah (near), Esmeralda County (brown  
 crystals to 2 cm) **22:383**
- New Jersey**  
 Franklin/Sterling Hill **19:274n**
- New Mexico**  
 Iron Mountain, Sierra County **20:60n**  
 Lynchberg Tunnel, Socorro County **20:17**
- North Carolina**  
 Bald Knob, Alleghany County (yellow micro  
 grains) **12:171**
- Pennsylvania**  
 French Creek mine (crystals to 1 cm) **25:111**,  
**25:113p**
- 
- ANGLESITE**
- Australia**  
 New South Wales  
 Broken Hill 7:30–31, **12:110n**, **19:424n**  
 Kintore opencut, Broken Hill (antlerite after)  
**19:427**, **24:227**
- Queensland**  
 Mt. Isa mine **19:478**
- South Australia**  
 Billy Springs mine **12:107n**
- Tasmania**  
 Comet-Maestries mine **19:384d**  
 Magnet mine **19:384n**
- Austria**  
 Bleiberg district **17:360c,d**
- Bolivia**  
 El Dragón mine, Potosí (tabular to 2 mm)  
**21:140d,c**
- Brazil**  
 Bahia  
 Boquira mine, near Oliveira do Brejinho  
**6:282**, **6:284–285p**  
 Ribeira Valley (border between São Paulo and  
 Paraná states)  
 Bassetti prospect (needles) **6:282**  
 Lourenco Velho (clear crystals to 1 cm)  
**6:282**
- Canada**  
 British Columbia  
 Beaver Group, Kaslo-New Denver area (yel-  
 low prismatic) **2:209**  
 Québec  
 Mt. St-Hilaire: coating **2:142**; micro **21:296**
- England**  
 Derby  
 Dene quarry, Cromford (3 mm crystal) **14:20p**  
 Derbyshire orefield (crystals to 10 cm) **14:23**  
 Wirksworth area **14:23n**
- Germany**  
 Rheinland-Pfalz  
 Ems district (after cerussite) **15:334n**  
 Mercur mine, Ems district **15:342n**  
 Siegerland  
 Müsen **18:356n**
- Greece**  
 Laurium area: **17:185m**; earthy; also crystals in  
 slag **7:123n**

## GENERAL INDEX

- Italy**  
 Sardinia  
 Monteponi, Iglesias: **20**:(152); 1 cm clear **15**:371  
 Montevecchio, Iglesias (green) **15**:371n
- Mexico**  
 Chihuahua  
 Los Lamentos (etched to 6 cm) **11**:282, **11**:284
- Morocco**  
 Touissit: **17**:341n, **18**:356n, **19**:116n, **19**:210n, **19**:213p, **20**:69n, **20**:72n, **20**:145, **20**:396n; gemmy yellow **15**:117n; orange to 5 cm **12**:187; reddish-orange color is artificial **15**:249; with cerussite coating **15**:169p; yellow, clear to 3 cm **11**:114
- Namibia**  
 Tsumeb: **8**:T18, **8**:T48, **8**:T69–70p; pale blue **21**:97n
- New Zealand**  
 Tui mine, North Island (around galena “eyes”; massive) **6**:30n
- Scotland**  
 Strathclyde  
 Leadhills **15**:147c  
 Susanna mine, Leadhills **12**:243p,d  
 Strathclyde/Dumfries and Galloway  
 Leadhills-Wanlockhead district **12**:242–243p,d
- Slovenia (formerly Yugoslavia)**  
 Mežica mine (prismatic to 4 cm) **22**:101, **22**:102p
- Spain**  
 Horcajo mines, Ciudad Real (micro) **25**:25
- United States**  
 Arizona  
 Campbell shaft, Bisbee district (dark crystals) **12**:290  
 Defiance mine and vicinity, Cochise County **11**:205n  
 Fat Jack mine, Yavapai County **22**:(25)  
 Gardner shaft, Bisbee district (bands around galena) **12**:290  
 Grand Reef mine, Graham County (crystals to 2.5 cm; chrysocolla after) **11**:223p  
 Hamburg mine, La Paz County (replacing galena) **11**:138  
 Mammoth mine, Pinal County (non-twinning) **11**:164–165d  
 Nugget Fraction mine, Pinal County **15**:(43)  
 Old Yuma mine, Pima County **14**:(107)  
 Rowley mine, Maricopa County (massive) **5**:17  
 79 mine (replacing galena) **3**:252  
 Shattuck shaft, Bisbee district (grains, masses) **12**:290  
 Silver Bill mine, Cochise County **11**:205n, **14**:(130)  
 Tonopah-Belmont mine, Maricopa County **19**:142
- California  
 Blue Bell mine, San Bernardino County **8**:495  
 Defiance mine, Inyo County **15**:13n  
 Empress mine, Inyo County (after galena) **15**:13n  
 Essex mine, Inyo County (coating galena) **15**:13n  
 Thompson mine, Inyo County (after galena) **15**:13n
- Colorado  
 Cross mine, Caribou (gemmy) **10**:331–332  
 Italian Mountain area, Gunnison County **15**:80  
 National Belle mine, Ouray County: replacing galena **19**:99; unconfirmed **17**:232  
 Silverton district, San Juan County **10**:357n
- Idaho  
 Bunker Hill mine (prismatic to 7.5 cm; most fl. yellow) **12**:342p  
 Last Chance mine, Shoshone County (flattened, to 5 cm) **12**:342
- Massachusetts  
 Loudville mine, Hampshire County: euhedral **6**:295; micro euhedral **13**:46p
- Nevada  
 Killie mine, Elko County (massive after galena; some crystals) **18**:416  
 Outlaw mine, Nye County (minute) **22**:178, **22**:179p
- New Mexico  
 Bingham, Socorro County **20**:37  
 Blanchard claims, Socorro County (after galena) **19**:332n  
 Magdalena district, Socorro County **20**:17  
 Stephenson-Bennett mine, Dona Ana County: **20**:27; crusts **4**:33
- Pennsylvania  
 Ecton mine, Montgomery County **18**:(132)  
 Phoenixville **20**:377d  
 Wheatley mine **20**:377p
- Tennessee  
 Elmwood mine, Smith County (compact fibrous) **9**:214–215p
- Wales**  
 Anglesey  
 Parys Mountain (pyramidal) **21**:492n,c  
 Dyfed  
 Bwlch-Glas mine, Ceulanymaesmawr (micro long prismatic) **13**:152
- Zaire**  
 Antelope mine **11**:316n
- Zambia**  
 Broken Hill mine **11**:347p
- ANKERITE
- 
- Australia**  
 Queensland  
 Mt. Isa mine **19**:478  
 South Australia  
 Wallaroo mines **19**:(412)  
 Victoria  
 Bendigo **19**:29n
- Canada**  
 Ontario  
 Silver Islet mine **17**:(59)  
 Québec  
 Mt. St-Hilaire (on siderite) **21**:296
- Czech Republic (formerly Czechoslovakia)**  
 Třebesko deposit (T-1 vein) (rhombs to 3 mm) **22**:211
- England**  
 Derby  
 Derbyshire orefield **14**:20n  
 Durham  
 Boltsburn mine, Weardale (dolomite id as) **13**:15–16
- Germany**  
 Obersachsen  
 Annaberg **17**:15h
- Namibia**  
 Tsumeb (coatings) **8**:T18n
- New Zealand**  
 Tui mine, North Island (crystals to 5 cm) **6**:27
- South Africa**  
 Cape Province  
 Mamatwan mine **9**:150
- United States**  
 Arizona  
 Fat Jack mine, Yavapai County: limonite after **22**:26; uncertain id, quartz casts after **22**:25  
 Magma mine, Pinal County **14**:(82)  
 New Cornelia mine, Pima County (massive) **14**:294  
 Vekol mine, Pinal County (id as ferroan dolomite) **14**:91p,q
- Arkansas  
 Jeffrey quarry, Pulaski County (discoidal) **9**:77p, **9**:78–79
- Colorado  
 Camp Bird mine, Ouray County **10**:357n  
 Italian Mountain area, Gunnison County **15**:86n  
 Mineral Farm mine, Ouray County **19**:(99)
- Montana  
 Snowbird mine, Mineral County (massive) **8**:84–85



## GENERAL INDEX

- New York  
Sterling mine, Jefferson County (probably zoned dolomite and siderite) **15:204, 15:214**
- Pennsylvania  
French Creek mine **25:(119)**  
Wheatley mine **20:377**
- Washington  
Spruce Peak deposit, King County **9:357**
- Wisconsin  
Rib Mountain, Marathon County (in quartz) **12:96n**
- 
- ANNABERGITE**
- Australia**  
Western Australia  
132 North deposit, Widgiemooltha district (crystals to 5 mm) **25:287–288p**
- Canada**  
Northwest Territories  
Port Radium **20:(207)**
- Ontario  
Cobalt Lake (near) (micro spheres) **13:110p**
- Québec  
Orford mine (crusts) **25:335**
- Czech Republic (formerly Czechoslovakia)**  
Třebesko deposit (T-1 vein) **22:(212)**
- Greece**  
Laurium: **15:114p**; micro crystals **9:134n**  
Plaka mine, Laurium (magnesian; micro crystals) **7:122n**
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**
- United States**  
California  
Kalkar quarry, Santa Cruz County **17:323p,c**
- Montana  
Snowbird mine, Mineral County (2 cm nodules) **8:85**
- New Mexico  
Alhambra mine, Grant County **20:59n**
- 
- ANNITE**
- Canada**  
Québec  
Mt. St-Hilaire (prismatic to 15 cm) **21:296**
- 
- ANORTHITE**
- Japan**  
Miyake-Jima Island (crystals to 5 cm) **22:390n**
- Moon**  
Localities not specified **1:19–20q**
- United States**  
Colorado  
Italian Mountain area, Gunnison County **15:80**
- New Jersey  
Sterling Hill (white, near end-member) **21:425n**
- 
- ANTAMOKITE**
- See Petzite*
- 
- ANTARCTICA**
- Don Juan Pond, Victoria Land **2:171s**  
Tula Mountains, Enderbyland **22:386s**
- 
- ANTARCTICITE**
- Toxicity **11:6**
- Antarctica**  
Don Juan Pond, Victoria Land **2:(171), 23:502h**
- United States**  
California  
Bristol Dry Lake, San Bernardino County: **2:37, 23:501–502h**; crystals to 17 cm **2:171–173p**
- 
- ANTHOINITE**
- Central African tungsten province (after euhedral scheelite to 10 cm) **12:82q**
- Zaire**  
Locality not specified **8:(390)**  
Mt. Misopo mine, Maniema **12:82h**
- 
- ANTHONYITE**
- United States**  
Arizona  
Cole shaft, Bisbee district (violet crust) **12:290**
- 
- ANTHOPHYLLITE**
- Canada**  
Québec  
Evans-Lou pegmatite **3:72**  
Marbridge #1 mine, Malartic district (fibrous to 15 cm) **7:178**
- Italy**  
Lombardy  
Baveno area **14:160–161**
- Norway**  
Kongsberg **17:34h**
- United States**  
Pennsylvania  
French Creek mine **25:(119)**
- 
- ANTIGORITE**
- Canada**  
Québec  
Marbridge mine, Malartic district **7:177–178**
- United States**  
Arizona  
Cole shaft, Bisbee district (flaky) **12:290**  
Holbrook shaft, Bisbee district (banded pink, green) **12:290**  
Lowell shaft, Bisbee district (platy) **12:290**  
Mammoth mine, Pinal County **11:159**
- California  
Kalkar quarry, Santa Cruz County **17:324n**
- New Mexico  
Magdalena district, Socorro County **20:17**  
Nitt mine, Socorro County (after unknown mineral) **20:17**
- Pennsylvania  
Wood's mine (lavender, chromian) **12:153–154q**
- Pennsylvania/Maryland  
Line pit, State Line district: lavender, chromian **12:153–154q**; some emerald green, "williamsite" **12:153q**
- 
- ANTIMONY**
- Australia**  
New South Wales  
Broken Hill **19:424n**  
Lucknow mines, Orange **18:(28)**
- Canada**  
New Brunswick  
Lake George mine (masses to 30 cm; rhombohedral crystals to 1 cm) **22:264–267p,c**
- Québec  
Lac Nicolet mine, Wolfe County: **18:(363)**; after unknown mineral **19:334n**  
Poudrette quarry (tiny grains) **22:386n**
- Germany**  
Niedersachsen  
St. Andreasberg **17:(9)**
- Spain**  
Motril, Córdoba **18:301n**
- 
- ANTIQUES AND COLLECTIBLES**
- Archival materials and supplies, source recommended **21:186**
- Armor and weapons, Spanish, from Arizona **14:68–69p**
- Barte* (German ceremonial miner's axe) **24:227**
- Bergmanns offenes Geleucht, Des* (book on open-flame lamps) **11:275b**
- Binocular microscope **16:240**
- Books for sale at Tucson Show: 1981 **12:173**; 1985 **16:310–311**
- Brass parade lamp, Harz Mountains, Germany **15:180p**
- Brooch with Montana state seal **23:444p, 24:56**
- Candlesticks: **13:176b**; Bisbee, AZ **12:270–272p**; Leadville, CO **16:176p**
- Chondrodite crystals, Dana prints of found **18:322**
- Cook collection, acquisition of **22:467–468**
- Crystal models: clay, by Haiüy **19:145–149**; colored glass, German **19:210**; wood and clay, Teyler's Museum collection **18:121**
- De Re Metallica*, catalog published of pre-1800 books used by Hoover and Hoover in translating **15:311**
- Frog lamps: *Frog Lamps, a Survey of Examples from 1529 to 1979* **13:176b**; German, 1673 **23:85p**; German, 1880s **12:114p**; ornate silver, from Freiberg **17:17**
- Gold mining memorabilia, collecting (lamps, tools, paper collectibles, etc.) **13:323–330, 20:489b**
- Goniometer **15:119p**; reproductions **20:2, 20:100, 21:123**
- Great Western Fair, Pomona, CA (guns and knives) **15:2, 15:251**
- Instruments from Geology Museum, Colorado School of Mines **16:#3** (cover photo)
- Labels, antique (see Specimen labels)
- Lamps: **10:37–39, 10:365–367, 13:176b**; Bisbee, AZ **12:270–272p**; directory of collectors **12:3**; 4th–5th century Roman, Strashimir mine, Romania **22:439p**; Harz Mountains, Germany **19:24**; *Miners' Open-flame Lamps* **13:176b**; miniature **13:2**; (*Nearly Complete Bottom-Guide for Carbide Cap Lamps, The* **13:176b**; short history of **9:359–362**; see also Antiques and Collectibles—Candlesticks; Antiques and Collectibles—Frog lamps)
- Mineral sets, boxed: **8:50**; 19th century **23:445p, 24:319–321p, 25:68ff**
- Miners' Candlesticks from 20 Collections* (statistical survey of abundance of brands) **13:176b**
- Miner's cup, Schemnitz, Czechoslovakia **19:9**
- Miner's pick, ornate, Leadville, CO **16:174p**
- Miner's tankard, Harz Mountains, Germany **19:24**
- Old mineral collection in Swedish hunting lodge (letters) **22:223, 22:478**
- Paper quality and longevity; de-acidification **10:2**
- Radioactive water dispenser **20:161**
- Removing Scotch tape from leather book bindings and old paper **6:140**
- Specimen labels, collecting: **3:202, 7:185**; cleaning **9:49–50**; faded antique, sometimes legible under long-wave UV **18:171**; 59 labels illus. **8:407–410**; see also Labels and Labeling
- Stock certificates: Caldbeck Fells Cons. Lead & Copper **22:107p**; collecting **8:282**; Comstock lode mining companies **16:5–13**; Getchell mine **16:23**; Majuba Silver, Tin and Copper Co., NV **16:72**; Michigan copper companies (16 examples) **23:M29–41**; White Caps Mining Co., NV **16:88**
- Surveying instruments **19:8, 19:9**
- 
- ANTLERITE**
- Australia**  
New South Wales  
Kintore opencut, Broken Hill (after angle-site) **19:427, 19:433q**
- Chile**  
Chuquicamata: **8:(517)**; most "brochantite" id as; some labeled "heterobrochantite" or "stelznerite"; crystals to 5 mm **9:327p, 9:328d**
- United States**  
Alabama  
Wood Copper mine, Cleburne County (minute crystals in slag) **9:390p, 9:391**

## GENERAL INDEX

- Arizona  
 Bisbee district **12:290d**  
 Cole shaft, Bisbee district (acicular to 2 cm) **12:290**  
 Grandview mine, Coconino County (coatings, nodules) **2:218–219**  
 Lavender pit, Bisbee district **12:290**  
 Ray mine, Pinal County (coating; prob. antlerite) **14:318**  
 Shattuck shaft, Bisbee district (equant) **12:290**
- California  
 Defiance mine, Inyo County **15:13n**
- New Mexico  
 Blanchard claims, Socorro County **19:(332), 20:36, 20:38p**  
 Hansonburg district, Socorro County **20:36**  
 Magdalena district, Socorro County **20:17**
- 
- APACHITE**
- United States**  
 New Mexico  
 Socorro Peak, Socorro County (micro) **22:384n**
- 
- APATITE GROUP**
- See also names of individual species*  
 Guide to apatite species nomenclature **8:78–82**
- Australia**  
 South Australia  
 Iron Monarch quarry, Iron Knob: glassy **12:105n**, gorceixite casts after **12:106p**
- Austria**  
 Hohentauern mine, Styria (gemmy) **17:110n**  
 Knappenwand, Salzburg: **17:173p, 17:178q**;  
 “byssolite” actinolite in **17:108p**  
 “Prehnitinsel,” Salzburg **17:(107)**  
 Totenkopf, Salzburg **17:(107)**  
 Zillertal Alps, Tyrol **17:107n**
- Bolivia**  
 Llallagua, Potosí (5 cm tabular; fl.) **4:279, 4:280p**  
 Oruro Dept. **6:136**  
 San José mine, Oruro district (prismatic to 1 mm) **6:134**
- Brazil**  
 Minas Gerais  
 Énio pegmatite, near Galiléia (euhedral blue; spherulitic beige) **12:70**  
 Golconda mine **18:148**  
 Jonas mine, Itaia district (sharp, gemmy pink) **12:183n**  
 Jove Lauriano mine, near Linópolis (pink, yellow prismatic) **14:235**  
 Lavra da Ilha, near Taquaral **4:211n**  
 Mantena, Galiléia (fibrous bundles) **21:488n**  
 Morro Velho mine: clear, pale colors to 5 cm **4:226m**; pink tabular **2:10n**; pink to 4 cm **13:51n**  
 Sebastião Cristino mine, near Linópolis (2 cm prismatic) **14:235n**  
 Virgem da Lapa (prismatic, resembling beryl) **9:37–38p**
- Canada**  
 British Columbia  
 Ice River complex **12:224**  
 Rocher Déboulé mine (odd fibrous prismatic) **2:205**
- Québec  
 Lièvre River (1820s discovery of giant crystals) **5:178–182p**  
 Mt. St-Hilaire: **10:103**; strontian; minute crystals **2:142, 2:269, 2:271q**  
 Orford mine (grains) **25:335n**  
 Yates mine, Otter Lake **19:117n**
- Yukon  
 Rapid Creek **15:(45)**
- Czech Republic (formerly Czechoslovakia)**  
 Dolní Bory **19:122n**
- Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district (fluorapatite-chlorapatite) **8:319d, 10:94p**
- Greenland**  
 Ilímaussaq complex (3 localities) (various colors, habits) **5:124q**  
 Narssárssuk **5:119–120**
- Italy**  
 Lombardy  
 Baveno area, Lombardy (to 5 mm) **14:161**
- Piemonte  
 Val di Susa **10:86n, 10:89p**
- Tuscany  
 San Piero in Campo area, Elba **16:356d**
- Kazakhstan (formerly USSR)**  
 Akschatau (pale blue prismatic) **25:47n**
- Moon**  
 Minute prismatic **1:22**
- Namibia**  
 Onganja mine: not quartz, identity confirmed **6:214–215**; pale green **5:235n**
- Nepal**  
 Hyakule pegmatite (glassy, poss. yttrian) **16:417n**
- Pakistan**  
 Haramosh valley, Asad Kashmir province (pink to 5 cm) **11:321–322**  
 Nagar (deep pink) **22:214p, 22:216**
- Peru**  
 Estela mine, Julcani district (small white prismatic) **5:219**
- Portugal**  
 Monte Redondo quarry (colorless prismatic to 4 cm) **2:42n**  
 Panasqueira mine: euhedral prismatic to 5 x 10 cm **2:76–77p**; 35 mm gemmy purple **25:215**
- Russia (formerly USSR)**  
 Lake Baikal area **1:61h, 18:159n**  
 Pereval mine, Lake Baikal area (blue-green granular, layered with quartzite) **1:64**  
 Slyudyanka, Lake Baikal area **24:483p, 24:484, 24:389**
- Sweden**  
 Leveäniemi iron mine, Svappavaara, Norrbotten **20:(346)**
- Switzerland**  
 La Bianca, Grisons (2 mm clear) **6:304p**
- United States**  
 Arizona  
 Bisbee district (prob. fluorapatite; micro) **12:290**  
 Mammoth mine, Pinal County **11:159n**  
 Twin Buttes open pit, Pima County **11:264n**
- Arkansas  
 Jeffrey quarry, Pulaski County (purple tabular; fl.) **9:79**
- California  
 Baker, San Bernardino County (turquoise after) **8:282**  
 Benitoite Gem mine, San Benito County (micro crystals) **8:450n**  
 Champion mine, Mono County **8:82n**  
 Clark mine, San Diego County (blue) **8:514**  
 Himalaya dike system, San Diego County: **8:514**; pink, red, blue **8:471**  
 Jensen quarry, Riverside County **15:287n**  
 Thornberry Mountain, Madera County (2.5 cm green) **21:132**  
 Tourmaline Queen mine, San Diego County (purple) **8:508n**
- Colorado  
 Eagle mine, Eagle County: gemmy green **10:330**; green crystals to 18 mm **7:286n, 7:290p**  
 Pikes Peak batholith (prismatic, botryoidal) **10:376**
- Sweet Home (Home Sweet Home) mine, Park County **10:333n, 10:337**  
 Urad molybdenum mine, Clear Creek County **7:284n**
- Georgia  
 Boly Field mine, Lumpkin County (with gold) **18:(68)**
- Maine  
 Bell Pit, Oxford County (micro blue) **1:114p**
- Montana  
 Bald Mountain, Jefferson County (crystals to 3 cm) **7:20c,q, 7:23p,d**
- New Hampshire  
 Palermo mine, Grafton County: blue **5:278n**; chalk-white crystals **21:484n**
- New Mexico  
 Harding mine (blue masses, crystals to 13 cm; fl. uv) **8:122**  
 Smokey Bear claims, Lincoln County (pale green prismatic) **22:363**
- New York  
 Talcville, St. Lawrence County **18:361n**
- Pennsylvania  
 Keystone Trappe Rock quarry, Chester County **2:19n**
- 
- APHTHALITE**
- Australia**  
 Western Australia  
 Cocklebidy **9:(113)**
- Germany**  
 Douglashall **6:74d, 6:76c**
- Italy**  
 Campania  
 Vesuvius **6:74d, 6:76c**
- United States**  
 California  
 Searles Lake (tabular to 2 cm) **6:75–76c**
- 
- APOPHYLLITE GROUP**
- See also names of individual species*  
 Nomenclature revisions in the apophyllite group **9:95–98h**
- Australia**  
 Locality not specified **19:369d**  
 New South Wales  
 Broken Hill (pyramidal to 25 mm) **7:29**  
 Prospect quarry **25:188, 25:189d**
- Austria**  
 Floiental-Stillupgrund power plant **17:107n**  
 Lienzingner, Salzburg (tabular crystals) **17:106n**  
 “Prehnitinsel,” Salzburg **17:(107)**
- Brazil**  
 Santa Catarina  
 Lages (south of) **2:13n**
- Canada**  
 British Columbia  
 Monte Creek, Kamloops district **19:333n**
- Québec  
 Jeffrey mine: **10:75c, 10:77p,d**; micro **9:249n**  
 Mt. St-Hilaire **13:(244)**  
 Poudrette quarry **18:(363)**
- Denmark**  
 Færoe Islands (10 localities) (pyramidal, prismatic, tabular; some pink, green) **12:22c,d**
- Iceland**  
 Berufjörður (3 localities) (prismatic to 3 cm) **12:21c, 12:22d**  
 Heidarvatn (pyramidal) **12:21n**  
 Hvalfjörður (some greenish) **12:21**  
 Uxhver (Oxhaver Springs) (on petrified wood) **12:21n**
- India**  
 Aurangabad (green) **22:(217)**  
 Jalgaon (very large) **22:(390)**  
 Lonaula, Maharashtra (large green) **7:256n**  
 Maharashtra (chocolate brown to 4 cm) **22:225n**

GENERAL INDEX

- Nasik area quarries (clear white) **7:260**  
 Pandulena Hill quarries, near Nasik (crystals to 15 cm, some with phantoms) **13:307–308**  
 Panvil, Maharashtra (small green) **7:256n**  
 Pathardy quarry, Nasik area **7:260**  
 Poona area quarries: green **21:256**; green to 2 cm, colored by vanadium **7:260c**
- Ireland**  
 Locality not specified (micro) **10:173**
- Mexico**  
 Zacatecas  
 Concepcion del Oro district **3:15, 3:42**
- New Zealand**  
 Pahau River, South Island (pale blue micro) **14:50n**
- Norway**  
 Kongsberg **17:(35)**
- South Africa**  
 Cape Province  
 N'Chwaning mine (clear pseudo-cubic) **11:30**  
 Wessels mine **9:148p, 9:149c**  
 Transvaal  
 Palabora open pit **14:388p**
- United States**  
 Arizona  
 Christmas mine, Gila County (micro) **11:261n, 11:262p**  
 Horseshoe Dam, Maricopa County: **11:264n**;  
 1 cm tabular **14:116**  
 California  
 Jensen quarry, Riverside County (to 12 mm) **15:278–279c, 15:287n**  
 Colorado  
 Italian Mountain area, Gunnison County **15:80c**  
 Connecticut  
 Cheshire, New Haven County (large tabular) **12:(381)**  
 Thomaston Dam, Litchfield County **10:(241)**  
 Michigan  
 Keweenaw Peninsula (several localities listed) **14:224**  
 New Jersey  
 Bulls Ferry Road, North Bergen, Hudson County (odd morphology) **22:384n**  
 Route 80 roadcut, Passaic County (20 cm crystal) **1:174**  
 Pennsylvania  
 French Creek mine (tabular to 5 cm; some opaque green) **25:112, 25:113p**  
 Virginia  
 Centreville, Fairfax County (13 cm crystal) **17:147n**  
 Fairfax quarry, Fairfax County: **9:97p, 9:98**;  
 white to 11.5 cm **3:174–177p, 3:179p**  
 Washington  
 Skookumchuck Dam, Thurston County (white to 3.8 cm) **3:32p, 3:33**
- APUANITE**
- Italy**  
 Tuscany  
 Buca della Vena mine **17:264c,p,d**
- ARAGONITE**
- Australia**  
 New South Wales  
 Ardglen quarry **19:399p,c,d**  
 Kintore opencut, Broken Hill **19:428**  
 Prospect quarry (violet strontian; columnar masses) **25:188d**  
 Unanderra quarry **19:393**  
 Willy Wally Gully **19:401**  
 Queensland  
 Mt. Isa mine **19:478**  
 South Australia  
 Beltana mine (tiny acicular) **22:451**
- Burra Burra mine (massive) **25:126**  
 Wallaroo mines **19:(412)**
- Victoria  
 Cape Schanck, Flinders area **19:456**  
 Kitty Miller Bay, Phillip Island (mauve) **19:456**  
 Phillip Island **19:456**  
 Western Australia  
 132 North deposit, Widgiemooltha district (crystals to 1.5 cm) **25:291n**
- Austria**  
 Bleiberg district **17:360**  
 Styrian Erzberg mine, Styria (“flos ferri”) **17:110n**
- Bolivia**  
 El Dragón mine, Potosí (2 mm needles) **21:140**
- Brazil**  
 Bahia  
 Boquira mine, near Oliveira do Brejinho (pink clusters to 10 cm) **6:282**  
 São Paulo  
 Jacupiranga mine **15:264**
- Canada**  
 British Columbia  
 Bluebell mine, Riondel (post-mining stalactites, “cave pearls”) **8:35**  
 Monte Creek, Kamloops district (hemispheres, with siderite) **19:333n**  
 Québec  
 Jeffrey mine **9:249**  
 Mt. St-Hilaire (micro tabular) **21:296**  
 Thetford mines **2:46**
- Chile**  
 Mina Abundanca, Copiapó district, Atacama **15:74n**
- Czech Republic (formerly Czechoslovakia)**  
 Hořonec (gemmy prismatic to 15 cm) **22:460n**  
 Podrečany (crystals to 18 cm) **17:209–210p, 22:459, 24:234n**  
 Špania Dolina (formerly Herrengrund), Hořonec **22:460**
- Egypt**  
 Zebirget (St. John’s Island) **7:313**
- England**  
 Derby  
 Wapping mine, Matlock Bath (“flos ferri”) **14:20**  
 Devon  
 Hope’s Nose, Torquay (some “flos ferri”) **18:87**
- France**  
 Gergorie **19:337n**
- Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district: **10:95p**; crystals, fibers **8:318**
- Greece**  
 Kamaréza mine, Laurium (coralloidal; acicular) **7:124**  
 Laurium **17:183n, 17:185–186**  
 Locality not specified (sky-blue) **9:134n**
- Italy**  
 Tuscany  
 Boccheggiano mine (acicular; fl.) **10:284p**  
 Castelnuovo and Allori mines, Upper Valdarno (acicular to 1 cm) **25:296–297p**  
 Fantiscritti quarry **18:284**  
 Sardinia  
 Santa Lucia (green prismatic sixlings) **11:114**  
 Sicily  
 Santa Maria la Timpa **17:205n**
- Mexico**  
 Chihuahua  
 El Potosi mine (cave formations; museum diorama) **19:267**  
 Santa Rita mine, Santa Eulalia district (15 cm crystals) **17:340n**
- Morocco**  
 Locality not specified (plumbian, euhedral) **15:177n**
- Namibia**  
 Tsumeb: plumbian **19:337**; some zincian “nicholsonite,” plumbian “tarnowitzite” **8:T18n, 8:T48, 8:T61p**
- Russia (formerly USSR)**  
 Primoski Kray, Siberia **18:432n**
- Scotland**  
 Strathclyde  
 Leadhills (5 cm crystals) **12:249p**
- South Africa**  
 Cape Province  
 N’Chwaning I & II mines (some strontian to 12 cm) **22:281**  
 Wessels mine **22:281n**
- Spain**  
 Eugui quarries, Navarra (acicular to 4 cm) **22:138, 22:140p**  
 Minglanilla, Cuenca: **19:338n**; doubly terminated prismatic sixlings to 25 cm, purple **11:114**
- United States**  
 Arizona  
 Beaver Creek, Yavapai County (untwinned) **22:381**  
 Bisbee district (huge stalactites, “flos ferri,” etc.) **12:290–291p**  
 Camp Verde mine, Yavapai County (crystals; also after glauberite) **14:90**  
 Cole shaft, Bisbee district (green acicular) **12:290**  
 Czar shaft, Bisbee district (blades to 6 cm; red “flos ferri”) **12:290**  
 Defiance and adjoining mines, Cochise County (stalactitic) **11:206**  
 Iron Cap mine, Graham County **19:(87)**  
 Locality not specified: **6:38–39p**; some sold as “winniteite” **5:222**  
 Malpais Hill, Pinal County (id as erionite) **14:109**  
 Mystery tunnel, Cochise County (“flos ferri”) **11:206**  
 New Cornelia mine, Pima County **14:294**  
 Red Cloud mine, La Paz County (“flos ferri”) **11:149**  
 Shattuck shaft, Bisbee district (blades oriented on calcite) **12:290**  
 Southwest mine, Bisbee district: “flos ferri”; also crystals on calcite stalactites **19:331**; screw-like helicitites to 20 cm **12:290–291p**
- California  
 Jensen quarry, Riverside County **15:287n**  
 Kalkar quarry, Santa Cruz County (acicular, fl. green) **17:322**
- Colorado  
 A.M.W. properties, Lake County (zincian, “nicholsonite”) **16:183h**  
 Clear Creek County (helicitites) **20:389**  
 Pikes Peak region **16:228n**  
 Silverton district, San Juan County **10:357n**  
 Table Mountain, Jefferson County **19:162q, 19:163**  
 Wolfstone mine, Lake County (radial aggregates, “nicholsonite”) **16:191**
- Massachusetts  
 Chester emery mines **9:236, 9:238p**
- Nevada  
 Gold Hill (sprays) **14:56n**  
 Northumberland mine, Nye County **16:40**
- New Jersey  
 Sterling mine (yellow spheres, fl. UV) **25:97**
- New Mexico  
 Cottonwood Draw, Chaves County (sixlings to 5 cm, dolomite after) **22:384n**

## GENERAL INDEX

- Hansonburg district, Socorro County (calcite after) **20:36**
- Magdalena district, Socorro County **20:17**
- Point of Rocks quarry, Colfax County (and/or calcite, in spheres) **15:151**
- Stephenson-Bennett mine, Dona Ana County: **20:27**; botryoidal **4:33**
- New York
- Caledonia mine, St. Lawrence County ("flos ferri") **15:215n**
- Sterling mine, Jefferson County (1 mm crystals) **15:203p**
- Oklahoma
- Paoli (southeast of), Garvin County **17:374**
- Pennsylvania
- French Creek mine (fibrous, stalactitic) **25:112**
- Wheatley mine **20:377**
- Wyoming
- Lovell (near), Big Horn County (sixlings to 4 cm, dolomite after) **21:485n**
- Wales**
- Clwyd
- Hendre quarry, Glyn-Ceiriog **19:337n**
- 
- ARAMAYOITE**
- Peru**
- Herminia, Julcani district **5:(219)**
- "**ARANDISITE**"
- Poss. a mixture*
- Namibia**
- Arandis farm, near Swakopmund **9:(113s)**
- 
- ARCANITE**
- Australia**
- Western Australia
- Cocklebiddy (ammonian, "taylorite") **9:(113)**
- 
- ARCHERITE**
- Australia**
- Western Australia
- Petrogale Cave, west of Madura (announced; micro crystals) **9:39h**
- 
- ARDEALITE**
- Australia**
- Western Australia
- Moorba Cave, Jurien Bay **9:(113)**
- 
- ARDENNITE**
- Belgium**
- Sahn Chateau **11:29n**
- Salm **9:(113)**
- 
- ARFVEDSONITE**
- Canada**
- Québec
- DeMix quarry **18:(363)**
- Mt. St-Hilaire (prismatic to 20 cm) **21:296p,d**
- Poudrette quarry (13 cm crystal) **17:339n**
- Greenland**
- Ilímaussaq (20 cm prismatic) **22:48n**
- Narssárssuk **5:119**
- Malawi**
- Mt. Malosa region: **25:49–50n**; euhedral to 8 cm **25:31, 25:33p**
- United States**
- Washington
- Washington Pass, Okanogan County **20:152, 20:154p**
- 
- ARGENTINA**
- Catamarca **19:335, 20:393s**
- Cerro Blanco, west of Tanti, Córdoba **20:393s, 25:143**
- Collecting in (1993) **25:143–144**
- Córdoba **4:116**
- Cruz del Sur mine, Rio Negro province **10:301s**
- La Capillita mine, Catamarca province **22:386–387s**
- Los Aleros pegmatite **4:110**
- Volcán Payun Matru, Malargue Dept, Mendoza province **22:387s**
- 
- ARGENTITE**
- See also Acanthite*
- Alters to acanthite below 179°C **3:16**
- 
- ARGENTOJAROSITE**
- United States**
- California
- Monitor-Mogul district, Alpine County (poss. id) **22:37n**
- 
- ARGENTOPENTLANDITE**
- United States**
- Michigan
- Silver City, Ontonagon County **20:488**
- 
- ARGENTOPYRITE**
- Vs. sternbergite **2:102, 2:182, 2:183p**
- Vs. sternbergite, argyropyrite, silberkies **5:4q**
- Germany**
- Obersachsen
- Niederschlema **2:102**
- 
- ARGYRODITE**
- Germany**
- Obersachsen
- Freiberg district **17:(18), 18:162n**
- United States**
- Colorado
- Iron Clad mine, Rico district **16:(213), 16:(215)**
- "**ARGYROPYRITE**"
- See also Argentopyrite; Sternbergite*
- Locality not specified **5:4h,q**
- 
- ARIZONA**
- Agua Fria River, west of New River, Maricopa/Yavapai counties **25:382s**
- Ajo, Pima County: **9:113s**; see also Arizona—New Cornelia mine
- Alum Gulch, near Patagonia, Santa Cruz County **11:265s**
- Amazon Wash, north of Wickenburg, Maricopa County **11:265**
- Amelia (Gallo) mine, northeast of Red Cloud mine, La Paz County **21:162h,g**
- Apache County (uncertain locality) **16:149s**
- Apache mine, north of Globe, Gila County **2:252–258p,m,h,g, 4:78h, 5:197h, 21:481s**
- Apache mine, Pinal County **15:113s, 15:177s**
- Aquarius Mountains **20:387s**
- Aravaipa district, Graham County **19:81**
- Arizona Highways* issue (March 1985) on Arizona ghost towns and mines **16:169**
- Arizona silver (abstract) **25:73–74h**
- Armada mine, Santa Rita Mountains, Santa Cruz County **16:152s**
- Ash Creek, near Hayden, Pinal County **23:487–492h,g**
- Atlanta shaft, Bisbee, Warren district, Cochise County **12:272h, 12:273m**
- Azurite and other copper carbonates in northern Arizona solution-collapse breccia pipes (detailed abstract) **22:67–68g,h**
- Baxter claim (new), Bisbee (see Holbrook shafts)
- Baxter tunnel, Bisbee, Warren district, Cochise County **12:272–273h,m**
- BCC #3 claim, Parker, La Paz County **20:387s**
- Beaver Creek, near Camp Verde, Yavapai County **22:381s**
- Bibliography of Arizona articles in *Mineralogical Record* **11:130–131**
- Bibliography of locality literature **18:212–213**
- Bibliography of mineralogy literature **10:14**
- Big Bug Creek, near Mayer, Yavapai County **14:365s**
- Big Lue Mountain, Greenlee County **18:360s**
- Binghamton mine, Yavapai County **11:265s**
- Bisbee, Warren district, Cochise County: **1:68–69s, 4:4–5, 5:106–108s, 6:32–34s,h, 10:299s, 12:259–279h, 12:273m, 12:281–316g, 14:326–327s, 18:359s, 18:407s, 18:409s, 19:312s, 22:68g, 23:280s, 24:421–436h,m,g,p**; 18 additional minor mines named **12:279**; mineral occurrences in caves **12:287–288**; special issue **12:#5**
- Black Hawk claim, Bisbee (see Wade Hampton shaft)
- Black Rock mine, east of Red Cloud Rd., La Paz County **21:156–158p,h,g**
- Blue Ball mine, Gila County **20:447–450m,p,h,g**
- Bluebird mine, Gila County **19:117–120s**
- Boras shaft, Bisbee, Warren district, Cochise County **12:273h,m**
- Bouse, Yuma County **15:112s**
- Briggs shaft (Hard Cash claim), Bisbee, Warren district, Cochise County **12:273h,m**
- Broken Promise claim, Bisbee (see Wolverine shafts)
- Brother Jonathan claim, Bisbee (see Cuprite shaft)
- Calumet and Arizona Mining Co., Bisbee, Warren district, Cochise County **12:267h**
- Campbell mine (Regular claim), Bisbee, Warren district, Cochise County **12:267–268h, 12:273h,m**
- Camp Verde salt mine (Graham-Wingfield sulfate ground), southwest of Camp Verde, Yavapai County **14:69h, 14:85–90h,p,m,g**
- C & B (Vanadium) mine, Dripping Springs Mountains, northwest of Christmas, Gila County **6:109, 11:213–218g,h,m,p**
- Cash Entry mine, east of Red Cloud mine, La Paz County **21:161**
- Chloride mine, northeast of Red Cloud mine, La Paz County **21:161g**
- Christmas mine, Dripping Springs Mountains, near Hayden, Gila County **8:517s, 9:113s, 11:261s, 16:151s, 20:387s**
- Cleator, Yavapai County **19:331s**
- Clip (Silver Clip, James C. Blain) mine, northeast of Red Cloud mine, La Paz County **21:162–163h,g,p**
- Cole shaft (Triangle, John P. Jr. claims), Bisbee, Warren district, Cochise County **12:273–274h,m**
- Collins mine, Tiger, Pinal County (see Mammoth mine)
- Comstock mine, Dos Cabezas Mountains, Cochise County **18:360s**
- Contention mine, Tombstone district, Cochise County **11:253h,g,m**
- Copper Prince mine, Bisbee, Warren district, Cochise County **12:273m, 12:274h**
- Copper Queen mine, Bisbee, Warren district, Cochise County **4:4–5, 9:259s, 12:261–272h, 12:264p, 12:273m, 12:274h**
- Copper Queen #9 mine, Yuma County **11:265s**
- Coral Canyon mine, Pinal County (see Grey Horse mine)
- Crown King **19:331s**
- Crown King (south of), Yavapai County **23:423s**
- Crystal Caverns claim, Dome Rock Mountains, west of Quartzsite, La Paz County **11:227h**
- Crystal Hill **19:331s**
- C-thon prospect, Graham County **14:389–390s**
- Cuprite shaft (Brother Jonathan claim), Bisbee, Warren district, Cochise County **12:273m, 12:274h**
- Czar shaft (General claim), Bisbee, Warren district, Cochise County **12:273m, 12:274h**
- Dallas shaft (Des Moines claim), Bisbee, Warren district, Cochise County **12:273m, 12:275h**
- Defiance mine, northeast of Gleeson, Cochise County **3:198h, 11:203–209p,g,m,h, 14:131–132s, 24:45s**

## GENERAL INDEX

- Del Norte claim, Bisbee (see Hoatson shaft)  
 Denn shaft (Robert E. Lee claim), Bisbee, Warren district, Cochise County **12:273m, 12:275h**  
 Des Moines claim, Bisbee (see Dallas shaft)  
 Dives (Saxon, Pryor, Padre Kino) mine, northeast of Red Cloud mine, La Paz County **15:43s, 21:162g**  
 Dome Rock Mountains, west of Quartzsite, La Paz County **6:33s, 11:227–229h,m**  
 Dos Cabezas Mountains near Willcox, Cochise County **9:192s, 11:265s**  
 Dragoon, Cochise County **19:199s**  
 Dripping Springs Mountains, Gila County **21:481s**  
 Duquesne (near), Santa Cruz County **11:192s**  
 Eagle Eye, New Water Mountains, La Paz County **19:331s, 20:387s**  
 Emerald mine, Tombstone district, Cochise County **11:251–255s,m**  
 Fat Jack mine, Lane Mountain, Tiger district, Yavapai County **22:21–28h,m,p,g**  
 Florence mine, Pinal County **3:201s**  
 Flux mine, Harshaw district, near Patagonia, Santa Cruz County **12:117–118h, 12:185s, 18:141s, 20:387s**  
 Four Peaks amethyst deposit, Mazatzal Mountains, Maricopa/Gila counties **7:72–77g,h, 19:331s**  
 Galena claim, Bisbee (see Lowell shaft)  
 Galiuro Mountains, Graham County **19:331s**  
 Gallo mine, La Paz County (see Amelia mine)  
 Gardner shaft, Bisbee, Warren district, Cochise County **12:273m, 12:275h**  
 General claim, Bisbee (see Czar shaft)  
 Geronimo mines, northwest of Red Cloud mine, La Paz County **21:160h,g**  
 Glove mine, east of Amado, Santa Rita Mountains, Santa Cruz County **3:198h,s, 14:299–306m,p,g,h**  
 Goddard claim (old), Bisbee (see Holbrook shafts)  
 Goddard shaft, Bisbee, Warren district, Cochise County **12:273m, 12:275h**  
 Golden Gate claim, Bisbee (see Sunrise shaft)  
 Goodenough mine, Tombstone district, Cochise County **11:251h**  
 Graham-Wingfield sulfate ground, Yavapai County (see Camp Verde)  
 Grand Central mine, Tombstone district, Cochise County **11:251h,g,m**  
 Grand Reef mine, Aravaipa district, Santa Teresa Mountains, near Klondyke, Graham County **11:219–225h,m,p,g, 18:360s, 24:46s, 25:211s**  
 Grandview mine, Grand Canyon National Park, Coconino County **2:215–221m,p,h,g**  
 Great Southern mine, Yavapai County **15:112s**  
 Grey Horse (Coral Canyon, Red Coral) mine, Riverside district, Dripping Springs Mountains, Pinal County **11:231–233p,h,g, 11:388h**  
 Hamburg mine, northeast of Red Cloud mine, Trigo Mountains, La Paz County **11:135–140h,g,m,p, 21:160h,g**  
 Hard Cash claim, Bisbee (see Briggs shaft)  
 Hardshell mine, near Patagonia, Santa Cruz County **11:265s**  
 Harquahala mine, La Paz County **11:264, 14:328s**  
 Helvetia district, Santa Rita Mountains **9:252**  
 Hesson mine, Buckskin Mountains, La Paz County **21:481s**  
 Higgins mine (Webster claim), Bisbee, Warren district, Cochise County **12:273m, 12:275–276h**  
 Hillside, Yavapai County **4:116**  
 Hilltop mine, California district, near Portal, Chiricahua Mountains, Cochise County **3:183h,s, 14:121–126h,g,m,p**  
 Hoatson shaft (Del Norte claim), Bisbee, Warren district, Cochise County **12:273m, 12:275h**  
 Holbrook extension, Bisbee (see Lavendar pit)  
 Holbrook shafts (old Goddard claim), Bisbee, Warren district, Cochise County **12:273m, 12:276h**  
 Holland mine, near Washington Camp, Santa Cruz County **2:185s**  
 Horseshoe Dam area, Maricopa County **11:264, 14:115–117m,p**  
 Huachuca Mountains **11:14s**  
 Indiana-Arizona property, east of Silver Hill mine, Waterman Mountains, Pima County **11:264s**  
 Index of Arizona localities, mineral species, and articles in issues 1:#1 through 14:#5 **14:344–351**  
 Irish Mag claim and shaft, Bisbee, Warren district, Cochise County **12:265–267h, 12:273m, 12:276h**  
 Iron Cap mine, Graham County **19:81–87p,m,h,g**  
 Iron Prince claim, Bisbee (see Shattuck shaft)  
 Isle Royale mine, Helvetia, Pima County **19:210s, 19:331s**  
 James C. Blain mine, La Paz County (see Clip mine)  
 J. C. Holmes claim, near Patagonia, Santa Cruz County **15:44s, 17:111–115h,m,p,g**  
 John P. Jr. claim, Bisbee (see Cole shaft)  
 Joker mine **11:265s**  
 Junction shaft (Waddel claim), Bisbee, Warren district, Cochise County **12:273m, 12:276h**  
 Kingman (near), Mohave County **23:276s**  
 Lake Superior and Western Development Co., Bisbee, Warren district, Cochise County **12:267h**  
 La Paz County created by dividing Yuma County **14:266m**  
 Lavendar pit (including Holbrook extension), Bisbee, Warren district, Cochise County: **12:273m, 12:276h; leaching in place 12:268h**  
 Little Joe shaft, Tomstone district, Cochise County **11:254s,m**  
 Live Oak mine, Inspiration, near Miami, Gila County **14:325h, 14:327s**  
 Lost Adams diggings, prob. Gila County **14:274–275h**  
 Lost Camel's Tinaja mine, northeast of Yuma, Yuma County **14:273h**  
 Lost Cinnabar mine, south of Payson, Gila County **14:276**  
 Lost mines of Arizona (includes historical outline of mining in Arizona table of references for 140 named lost mines) **14:269–281h**  
 Lost Six-Shooter mine, near Ehrenberg, Yuma/La Paz counties **14:273h**  
 Lost Whetstones mine, Whetstones Mountains, poss. Cochise County **14:273–274h**  
 Lowell shaft (Galena claim) **12:273m, 12:276h**  
 Lucky Cuss mine, Tombstone district, Cochise County **11:251h,g,m**  
 Magma mine, Pioneer district, Superior, Pinal County **14:72–82h,g,p, 14:326s, 20:69s, 20:387s**  
 Maid of Sunshine mine, near Gleeson, Cochise County **12:183s**  
 Malpais Hill, south of Winkleman, Pinal County **14:109–113h,m,g,p**  
 Mammoth (Mammoth-St. Anthony) mine, Tiger, Pinal County **3:150h, 4:5, 10:236s, 11:155–181h,g,p,m, 11:264h, 24:381s**  
 Mandan mine, southwest of Pacific mine, La Paz County **21:158g**  
 Mandarin mine, northeast of Red Cloud mine, La Paz County **21:161**  
 Mary shaft, Courtland, Cochise County **21:481s**  
 McCracken (McCrackin) mine, Mohave County **11:264h, 15:112s**  
 Melissa mine, northwest of Red Cloud mine, La Paz County **3:150s, 11:139h, 21:161h**  
 Mendevil mine, northeast of Red Cloud mine, La Paz County **21:161h,g**  
 Metcalf mine, Morenci district, Greenlee County **22:66–67g**  
 Micromineral localities **11:261–265**  
 Middlemarch Canyon, central Dragoon Mountains, west of Pearce, Cochise County **11:265s**  
*Mineral and Gem Localities in Arizona* **9:256b**  
*Mineralogy of Arizona* **8:415b**  
 Mineral Park mine, north of Kingman, Mohave County **11:243–245**  
 Mine with the Iron Door, Santa Catalina Mountains, Pima County **14:275–276h**  
 Mission mine, south of Tucson, Pima County **11:264s, 24:311s**  
 Mistake mine, north of Wickenburg, Yavapai County **14:333g,p**  
 Monument #2 mine, Apache County, **22:381s, 24:46s**  
 Monument Valley, Navajo/Apache counties **18:334s**  
 Moon Anchor mine, Osborn district, Maricopa County **19:139s**  
 Moon Anchor mine (prospect near), Maricopa County **22:381s**  
 Morenci mine, Morenci district, Greenlee County **4:141s, 14:327s, 19:331s, 22:66–67g, 23:423s, 24:45s**  
 Mystery tunnel, Courtland-Gleeson (Turquoise) district, northeast of Gleeson, Cochise County **11:204m, 11:206s**  
 Neptune tunnel, Bisbee, Warren district, Cochise County **12:273m, 12:276h**  
 New Baxter claim, Bisbee (see Holbrook shafts)  
 New Cornelia mine, Ajo, Pima County **4:5, 4:141s, 7:131h, 14:283–290h,m,p,g**  
 New Water Mountains, La Paz County: **20:387s; Kofa Game Refuge 14:119s**  
 Nighthawk shaft, Bisbee, Warren district, Cochise County **12:273m, 12:276h**  
 Nugget Fraction mine, south of Casa Grande, Pinal County **15:43s**  
 Oakland shaft, Bisbee, Warren district, Cochise County **12:273m, 12:276h**  
 Old Dominion mine, Globe, Gila County **14:134–135h**  
 Old Goddard claim, Bisbee (see Holbrook shafts)  
 Old Guard mine, Tombstone district, Cochise County **10:51s, 11:254s,m**  
 Old Yuma mine, Tucson Mountains, Pima County **3:183h,s, 11:261s, 14:95–107h,m,p,g, 14:326s, 18:359s, 18:403s**  
 Oliver shaft (Senator claim), Bisbee, Warren district, Cochise County **12:273m, 12:276h**  
 Omega mine, Pima County **19:312s**  
 Osborn district, Maricopa County **19:139**  
 Pacific mine, north of Black Rock mine, La Paz County **21:158h,g**  
 Pack Rat mine, Osborn district, Maricopa County **19:139h**  
 Padre Kino mine, La Paz County (see Dives mine)  
 Papago mine, west of Red Cloud Road, La Paz County **21:158–159h,g**  
 Patagonia, Santa Cruz County **9:113s**  
 Pearl Handle pit (see Ray mine)  
 Petrified Forest National Park, Navajo/Apache counties **7:158–159h,g**  
 Phelps Dodge Corporation, Bisbee, Warren district, Cochise County **12:267–268h**  
 Pima mine, near Tucson, Pima County **8:517s**  
 Pinal County **9:113s**  
 Planet mine, La Paz County **23:276s**  
 Plumos Mountains, Mohave County **6:62s**  
 Potter-Cramer claim, Osborn district, Maricopa County **11:265s, 19:139h**  
 Princess mine, north of Hamburg mine, La Paz County **21:160h,g,p**  
 Pryor mine, La Paz County (see Dives mine)  
 Puzzler mine, Castle Dome district, Yuma County **20:236s, 20:387s**  
 Quartzsite (near), Yuma/La Paz County **11:315–316s, 18:2s**

## GENERAL INDEX

- Ramsey mine, near Quartzsite, La Paz County **22:381s**
- Rat Tail claim, Maricopa County **11:265s**
- Rawley mine (see Rowley mine)
- Ray mine, Pinal County: **5:233–235s, 6:40s, 8:58–59s, 11:248–250h, 12:187s, 14:311–322p,m,g,h, 22:381s, 23:276s, 24:381s**; cover photo **14:#5s**
- Red Cloud mine, northwest of Black Rock mine, Trigo Mountains, La Paz County **3:150s, 6:176–179h, 11:141–152h,p,m,g, 16:497–499h, 20:70s, 20:146s, 20:353s, 20:387s, 21:159–160p,h,g**
- Red Coral claim (see Grey Horse mine)
- Regular claim, Bisbee (see Campbell mine)
- Revelation mine, northeast of Red Cloud mine, La Paz County **21:162g**
- Robert E. Lee claim, Bisbee (see Denn shaft)
- Romaldo Pachecos mine, La Paz County **11:139–140h**
- Route 177 south of Superior, Pinal County **11:264**
- Rowley mine, near Theba, Painted Rock Mountains, Maricopa County **3:182h,s, 5:10–30h,p,m,g, 5:195–196g, 14:326s, 17:404–405h,g, 19:210s, 22:381s**
- Sacramento Hill and pit, Bisbee, Warren district, Cochise County **2:126–127s, 12:273m, 12:275p, 12:276h**
- Sacramento shaft (Stars and Stripes claim), Bisbee, Warren district, Cochise County **12:273m, 12:276–277h**
- Saginaw Hill, southwest of Tucson, Pima County **1:117–118g, 11:265s**
- San Manuel mine, near Mammoth mine, Pinal County **11:178–179h**
- Santa Cruz County (unspecified prospect) **9:40s**
- Santa Maria River, Yavapai County **15:113s**
- Santa Nino ore body, Duquesne, Santa Cruz County **4:141s**
- Santa Rita Mountains, Pima County **1:125s**
- Saxon mine, La Paz County (see Dives mine)
- Scepter Hill, Santa Cruz County **23:280h**
- Schultz gold mine, Tiger, Pinal County: **3:150h**; see also Arizona—Mammoth (Mammoth-St. Anthony) mine
- Senator claim, Bisbee (see Oliver shaft)
- 79 mine, Banner district, north of Hayden, Dripping Springs Mountains, Gila County **3:182h,s, 3:247–272h,g,m,p, 7:55–56h,p, 18:299–301h, 23:276s**
- 7 U 7 ranch, near Hillside, Yavapai County **15:303–306s**
- Shattuck shaft (Iron Prince claim), Bisbee, Warren district, Cochise County **12:273m, 12:277h, 12:278p**
- Silver Bear shaft, Bisbee, Warren district, Cochise County **12:273m, 12:277m**
- Silver Bell mine, north of Tucson, Pima County **11:261s, 18:359s, 22:381s**
- Silver Bill mine, northeast of Gleeson, Cochise County **11:204m, 11:206h, 11:261s, 14:127–131h,g,m, 16:153s, 24:45s**
- Silver Clip mine, La Paz County (see Clip mine)
- Silver Glance mine, north of Black Rock mine, La Paz County **21:158h,g**
- Silver Hill mine, northwest of Tucson, Pima County **11:261s, 18:150s, 18:359s, 19:311–313p,h,g,m**
- Silver King mine, east of Hamburg mine, La Paz County **21:160h,g**
- Silver Spray claim, Bisbee (see Spray shaft)
- Slim Jim mine, Yavapai County (see Fat Jack mine)
- Snyder Hill mine, Pima County **16:153s**
- Southwest mine, Bisbee, Cochise County **12:273m, 12:277–278m, 18:245–246, 19:331**
- Southwest silver district: **14:266h,m**; accounts of 19 mines, another 30+ listed **21:151–168h,m,p,g**
- Spanish prospecting and mining, 1530–1853 **14:67–71h**
- Special issues **11:#3, 11:#4, 12:#5, 14:#2, 14:#5**
- Spray shaft (Silver Spray claim), Bisbee, Warren district, Cochise County **12:273m, 12:278h**
- Stonewall Jackson mine, McMillan, Gila County **14:327s**
- Sunrise shaft (Golden Gate claim), Bisbee, Warren district, Cochise County **12:273m, 12:278h**
- Table Mountain mine, east of Mammoth, Pinal County **11:264**
- Tiger, Pinal County: **14:337s, 19:268s**; see also Arizona—Mammoth (Mammoth-St. Anthony) mine
- Tombstone Canyon (upper), near Bisbee, Warren district, Cochise County **12:302s**
- Tombstone district, Cochise County **9:113s, 9:114s, 11:251h,g,m,p, 20:75, 20:387s, 23:423s**
- Tonopah-Belmont mine, Maricopa County **19:139–144m,p,g,h**
- Total Wreck mine, Empire Mountains, Pima County **3:182h, 17:341s**
- Toughnut mine, near Tombstone, Cochise County **3:182h, 11:254m, 11:255s, 21:481s**
- Triangle claim, Bisbee (see Cole shaft)
- Trigo Mountains, La Paz County **3:150h,s**
- Tucson Mountains, Pima County **11:265s**
- Tucson, Pima County **9:113s**
- Twin Buttes open pit, south of Tucson, Pima County **11:264s**
- Uncle Sam shaft, Bisbee, Warren district, Cochise County **12:273m, 12:278h**
- Vanadium mine, Dripping Springs Mountains, Gila County (see C & B mine)
- Vekol mine, Vekol Mountains, Papago Indian Reservation, Pinal County **14:91h,g**
- Veta Grande claim, Dome Rock Mountains, west of Quartzsite, La Paz County **10:35s, 10:189s, 11:227–229h,m, 22:217s**
- Vulture mine, Maricopa County **18:83s**
- Waddell claim, Bisbee (see Junction shaft)
- Wade Hampton shaft (Black Hawk claim), Bisbee, Warren district, Cochise County **12:273m, 12:278h**
- Webster claim, Bisbee (see Higgins mine)
- Weldon mine, Ben Nevis Mountain, Pima County **12:118**
- Western Union mine, Cerbat Mountains, north of Kingman, Gila County **21:481s**
- Westinghouse property, Duquesne, Santa Cruz County **4:141s**
- West Side mine, Tombstone district, Cochise County **11:253s, 11:254m**
- White-Tailed Deer shaft, Bisbee, Warren district, Cochise County **12:273m, 12:278h, 18:359s**
- Wickenburg area, Maricopa County **1:80s**
- Wolverine shafts (Broken Promise claim), Bisbee, Warren district, Cochise County **12:273m, 12:278–279h**
- Yankee Boy mine, east of Mayer, Gila County **1:33s, 7:34s**
- Yavapai County (locality not specified) **12:183s**
- Yuba mine, Santa Rita Mountains, Greaterville district, Pima County **18:89s**
- Yuma County divided into Yuma and La Paz counties; silver district in La Paz County after 1982 **14:266h,m**
- Yuma mine, Pima County (see Old Yuma mine)
- “ARIZONITE”
- 
- Mixture; also called “pseudorutile”*
- Australia**
- Western Australia
- Greenbushes tinfield **9:83h**
- ARKANSAS**
- 
- Ben Carney mine, Rush Creek district, Marion County **24:292h,m**
- Bibliography of locality literature **18:212–213**
- Bibliography of mineralogy literature **10:14–15**
- Buckeye Mountain, Polk County **16:291s**
- Capps mine, Rush Creek district, Marion County **24:292h,m**
- Collier Creek quartz mine, near Mt. Ida, Montgomery County **24:381h,s, 25:58s**
- Coon Creek, Polk County **9:113s, 16:291s**
- County Pit, Mauldin Mountain (see Mauldin Mountain)
- Crater of Diamonds State Park, southeast of Murfreesboro, Pike County **7:102–103h, 21:545–555h,p,m,g**
- Diamond Joe mine, Little Rock, Pulaski County **16:151s**
- Dug Hill, north of Avant, Garland County **4:294h,s, 16:294s**
- Edith mine, Rush Creek district, Marion County **24:292m, 24:294h**
- Glenwood area **20:387s**
- Hot Springs area **5:233**
- Jeffrey quarry, just west of North Little Rock, Pulaski County **8:59s, 9:75–79h,g**
- Leader mine, Rush Creek district, Marion County **24:292h,m**
- Lonnie Boy mine, Rush Creek district, Marion County **24:292h,m**
- Magnet Cove, Hot Spring County **3:86s, 10:298s, 12:187s, 14:39s, 20:158s, 24:67s**
- Magnet Cove igneous complex (near), Hot Spring County **1:140s**
- Mattie May mine, Rush Creek district, Marion County **24:292–293h,m**
- Mauldin Mountain (including County Pit), Montgomery County **16:152s, 16:291–295m,p,g, 20:387s, 21:97s, 21:481s, 25:214s**
- McIntosh mine, Rush Creek district, Marion County **24:292m, 24:293h**
- Mena, Polk County **16:150–151s**
- Mona Lisa mine, Porter Ridge, Polk County **16:291s**
- Monte Cristo mine, Rush Creek district, Marion County **20:155s, 24:292m, 24:293h,p**
- Montgomery County **22:381s**
- Morning Star mine, Rush Creek district, Marion County **24:290–291p, 24:292m, 24:293h**
- Mt. Ida, Montgomery County **20:75s**
- Ouachita Mountains **20:387s**
- Philadelphia mine, Rush Creek district, Marion County **24:292m, 24:293h**
- Polk County (locality not specified) **9:37s**
- Potash Sulfur Springs (Union Carbide mine) **16:291s, 16:293s**
- Rayburn barite mine, Magnet Cove, Hot Spring County **16:151s**
- Red Cloud mine, Rush Creek district, Marion County **24:292m, 24:294h**
- Rush Creek district, Marion County **24:285–299h,m,p,g**
- Rutherford deposit, Magnet Cove, Hot Springs County **20:387s**
- Silver Hollow mine, Rush Creek district, Marion County **24:292m, 24:294h**
- Stand on Your Head claim, Saline County **22:381s**
- Stand on Your Head #1 claim, Ouachita National Forest, Saline County **17:151s**
- White Eagle mine, Rush Creek district, Marion County **24:292m, 24:294h**
- Yellow Rose mine, Rush Creek district, Marion County **24:292m, 24:294h**
- 
- ARMALCOLITE**
- Moon**
- Minute grains **1:22**

## GENERAL INDEX

### ARMENITE

- Australia**  
New South Wales  
Purnamoota **22**:(387)
- Canada**  
Québec  
Remigny (roadcut near), Temiscamisque County **17**:(340)  
St. Remigny (near) (fibrous mass) **21**:492n
- Norway**  
Armen mine, Kongsberg **17**:34
- Switzerland**  
Simplon Pass, Valais (8 mm crystals) **21**:492n
- United States**  
Washington  
North Bend (near), King County: crystals **19**:333n; micro **21**:492n

### ARROJADITE

- In pegmatite environments **4**:110–111  
Numerous world localities **4**:111, **4**:118
- Brazil**  
Minas Gerais  
Enio pegmatite, near Galiléia (patches to 10 cm) **12**:70p
- Canada**  
Yukon  
Rapid Creek/Big Fish River area: crystals **8**:(517); with poss. Ba analog **23**:Y14–15h,q,c,d,p, **23**:Y17p
- United States**  
South Dakota  
Nickel Plate mine, Pennington County **17**:300h

### ARSENBRACKEBUSCHITE

- Namibia**  
Tsumeb: **8**:(390), **10**:113q; minute crystals **8**:T19

### ARSENDESCLOIZITE

- Mexico**  
Durango  
Ojuela mine **20**:236
- Namibia**  
Tsumeb: **13**:137–138c, **13**:140p,d; newly described **13**:155–157h,q,p,d,c

### ARSENIC

- Toxicity of arsenic minerals **11**:6
- Canada**  
British Columbia  
Mt. Washington mine, Vancouver Island (sooty masses) **15**:89
- Czech Republic (formerly Czechoslovakia)**  
Příbram district (masses) **22**:459n  
Třebosko deposit (T-1 vein) (layers) **22**:211
- France**  
Les Farges mine, Corrèze **13**:(267)
- Germany**  
Baden-Württemberg  
Anton mine, Wieden **17**:(6)  
Gottesehre mine, St. Blasien **17**:(6)  
Tannenboden mine, Wieden **17**:(6)  
Niedersachsen  
St. Andreasberg, Harz Mountains **17**:(9), **18**:356n
- Mexico**  
Chihuahua  
Batopilas district **17**:(79)
- New Zealand**  
Kapanga mine, Coromandel (2.5 cm botryoidal crusts) **1**:101  
Royal Oak mine, Coromandel (gold leaves with botryoidal) **1**:113  
Tokatea Hill, Coromandel (botryoidal) **1**:113n
- Norway**  
Kongsberg **17**:(35)

### ARSENIOSIDERITE

- Greece**  
Kamaréza mine, Laurium (micro crystals) **7**:122n
- Mexico**  
Durango  
Ojuela mine (coatings) **14**:57n
- Namibia**  
Tsumeb **8**:T19
- United States**  
California  
Boron, Kern County **2**:37n  
Kalkar quarry, Santa Cruz County **17**:323  
New Jersey  
Franklin mine (unknown species incorrectly id as) **10**:161q  
Sterling Hill mine (uncertain id) **13**:36

### ARSENOLITE

- Canada**  
British Columbia  
Mt. Washington mine, Vancouver Island **15**:89n
- Czech Republic (formerly Czechoslovakia)**  
Příbram district (masses) **22**:459n  
Třebosko deposit (T-1 vein) (transparent cubic to 2 mm) **22**:212
- Greece**  
Plaka mine, Laurium **7**:122n
- United States**  
California  
Boron, Kern County **2**:37n  
Monitor-Mogul district, Alpine County (crusts) **22**:36  
Nevada  
Getchell mine, Humboldt County **19**:253–254p  
White Caps mine, Nye County (crystals to 2 cm resulting from mine fire) **16**:85, **16**:86p

### ARSENOPYRITE

- Australia**  
New South Wales  
Kingsgate mines: **16**:279; elongated euhedral in quartz **16**:285  
Lucknow mines, Orange **18**:(28)  
Old 25 mine, Kingsgate mines (massive, containing euhedral quartz crystals with euhedral arsenopyrite inclusions) **16**:279n  
Northern Territory  
Mt. Bonnie mine **19**:(444)  
Queensland  
Mt. Isa mine **19**:478
- Austria**  
Mitterberg mine, Hochkönig, Salzburg **17**:110n
- Bolivia**  
San José mine, Oruro district (crystals to 1 cm) **6**:133
- Brazil**  
Minas Gerais  
Araçuaí area pegmatites **12**:(74)  
Córrego Frio mine, near Linópolis **14**:232  
Énio pegmatite, near Galiléia (drusy; some curved, "threadlike") **12**:69p  
Galiléia (near) (euhedral to 8 mm) **9**:41  
Paraná  
Panelas mine (crystals to 2 cm) **6**:282
- Bulgaria**  
Madan orefield **22**:441c
- Canada**  
British Columbia  
Bluebell mine, Riondel (euhedral) **8**:35p  
Highland Bell mine, Beavertell **20**:(445)  
Mt. Washington mine, Vancouver Island (5 mm crystals) **15**:90n  
Northwest Territories  
Port Radium **20**:(207)  
Rocher Déboulé mine, near Hazelton **15**:(91)

- Nova Scotia  
Montague mine, Halifax County (3 cm crystal) **13**:340
- Ontario  
Ackerman mine, Madoc area: **17**:(382); geniculate twins **13**:111n  
Deloro area mines, Madoc area: sixlings **13**:111n; 3 cm crystals **13**:81  
Kilpatrick mine, Madoc area (bowtie, cyclic twins) **17**:381–382p,c,d  
Lucy mine, near Wawa (sixlings) **13**:107, **13**:108p
- Québec  
Mt. St-Hilaire: crystals to 15 mm **21**:296; elongated **10**:103  
Orford mine (micro twinned) **25**:335p
- Chile**  
Chañarcillo (crystals to 1 cm) **10**:201
- China**  
Leiyang, Hunan **20**:(69), **20**:(394)  
Zinyhanj mine, Hunan (bright 2 cm crystals) **25**:47n
- Czech Republic (formerly Czechoslovakia)**  
Příbram district **12**:162n
- England**  
Derby  
Ecton and Eyam **14**:(17)
- France**  
Les Farges mine, Corrèze **13**:(267)
- Greece**  
Laurium area (micro) **7**:117
- Italy**  
Lombardy  
Baveno area (granules) **14**:161  
Tuscany  
Carrara region (doubtful id) **18**:274
- Mexico**  
Chihuahua  
New Nevada mine, Batopilas district **17**:79  
San Antonio mine, Santa Eulalia district **19**:115n  
Zacatecas  
Noche Buena mine (brilliant euhedral to 2.5 cm; some pyrite oriented on) **2**:247p
- Peru**  
Estela mine, Julcani district (massive) **5**:218, **5**:220p
- Portugal**  
Panasqueira mine (euhedral to 3 cm) **2**:75c, **2**:78p
- Russia (formerly USSR)**  
Sverdlovsk area (?) **20**:75n
- Serbia (formerly Yugoslavia)**  
Trepča **4**:58–60d,c,p
- United States**  
California  
Darwin district, Inyo County **15**:13n  
Jensen quarry, Riverside County **15**:287n  
Kalkar quarry, Santa Cruz County **17**:320p  
Monitor-Mogul district, Alpine County (3 mines) **22**:36  
Colorado  
Julia-Fisk mine, Leadville district **16**:191n  
Red Mountain district, Ouray County **10**:358n  
Tucson mine, Leadville district **16**:181n  
Maine  
Bennett quarry (massive; one crystal) **25**:179  
Mt. Mica (mistaken for loellingite) **16**:372n  
Nevada  
Killie mine, Elko County (massive) **18**:416  
Majuba Hill mine (massive granular) **16**:62  
Northumberland mine, Nye County (micro) **16**:40  
New Jersey  
Buckwheat open pit, Franklin **14**:185n

## GENERAL INDEX

- Sterling Hill mine: euhedral **21**:425n; in genesis of arsenate species **13**:35–38; micro prismatic **10**:161–163p,d
- South Dakota  
Double Rainbow mine, Lawrence County (after pyrrothite, to 4 cm) **1**:119ff
- 
- ARSENTSUMEBITE**
- Namibia**  
Tsumeb mine: **8**:(390); minute crystals **8**:T19, **8**:T84p; replacing azurite to 10 cm **22**:391n
- 
- ARTHURITE**
- England**  
Cornwall  
Hingston Down Consols **20**:395
- United States**  
Nevada  
Gabbs (near), Nye County **12**:394  
Majuba Hill mine: **20**:390; micro prismatic crystals **16**:62–63, **16**:64p  
Pershing County **9**:(113)
- 
- ARTINITE**
- Italy**  
Val Malenco, Lombardy (acicular to 2 cm) **3**:123p
- Turkey**  
Bigadiç, Anatolia **10**:124n  
Kop Krom mine, west of Erzerum (silky) **9**:285
- United States**  
California  
New Idria mine, San Benito County (acicular tufts) **8**:457–460p,q
- 
- ASBECASITE**
- Switzerland**  
Cherbadung (Cervandonne) **22**:(47)
- 
- ASBESTOS**
- Species not specified*  
*Asbestos: Properties, Applications, and Hazards*, vol. 1 **11**:51b  
Toxicity **11**:7
- United States**  
Massachusetts  
Pelham, Hampshire County (fibers to 60 cm; antique purse poss. made from) **1**:7
- 
- ASBOLANE**
- Namibia**  
Tsumeb **8**:T30n
- 
- ASCHAMALMITE**
- Austria**  
Grossvenediger area, Salzburg **17**:(107)
- 
- ASHCROFTINE-(Y)**
- “Kalthomsonite” described as **5**:126h  
Locality not specified **20**:339q
- Canada**  
Québec  
Mt. St-Hilaire: **10**:105, **13**:(242); tufts to 2 cm **21**:296–297
- Greenland**  
Narssárssuk (“kalthomsonite”); acicular to 4 mm) **5**:122–123q
- 
- ASISITE**
- Namibia**  
Kombat mine **22**:422h
- 
- ASTROPHYLLITE**
- Canada**  
Québec  
Mt. St-Hilaire: **10**:105; brown plates **13**:245p; tabular to several cm **21**:297–298p
- Greenland**  
Narssárssuk **5**:120, **18**:(357)
- 
- United States**  
Colorado  
St. Peter’s Dome, El Paso County (Zn-rich) **5**:187
- New Hampshire  
Government pit, Carroll County (uncertain id) **14**:(47)  
Rainbow Pocket, Coos County **18**:429n
- Washington  
Washington Pass, Okanogan County (in quartz) **14**:51n
- 
- ATACAMITE**
- Australia**  
New South Wales  
Kintore opencut, Broken Hill **19**:428
- Queensland  
Mt. Oxide mine **19**:485
- South Australia  
Burra Burra mine (nodules to 4 cm) **25**:126  
Burra district (3 cm crystals) **9**:185p  
Doora mine, Wallaroo district **19**:415p  
Moonta mines **19**:412–413c,d  
New Cornwall mine, Wallaroo district **19**:412–413, **19**:414p  
Poona mine, Moonta mines (terminated to 15 mm) **22**:387n  
Wallaroo district **19**:373h,c
- Chile**  
Chuquicamata **9**:324, **9**:327p  
Mina Abundanca, Copiapó district, Atacama **15**:74n  
Mina Herminia, Sierra Gorda **11**:101p, **11**:102c  
Mina la Farola, Copiapó district (thick needles) **9**:134  
Quetena mine, Antofagasto **14**:358n
- Mexico**  
Zacatecas  
Concepcion del Oro (after azurite) **15**:240p
- Namibia**  
Tsumeb (crystals to 1 cm) **8**:T19n, **8**:T56p
- United States**  
Arizona  
Cole shaft, Bisbee district (tufts) **12**:291  
Czar shaft, Bisbee district (blocky) **12**:291  
Mammoth mine, Pinal County (micro crystals, twins) **11**:172  
New Cornelia mine, Pima County **14**:294  
Rowley mine, Maricopa County: **17**:(405); powdery **5**:18  
Shattuck shaft, Bisbee district (minute) **12**:291
- Colorado  
Silverton district, San Juan County **10**:358n
- New Mexico  
Portales mine, Socorro County **20**:36
- 
- ATELESTITE**
- Germany**  
Obersachsen  
Schneeberg **3**:36, **3**:37d
- 
- ATTAKOLITE**
- Sweden**  
Westana, Schonon **9**:(113)
- 
- AUGELITE**
- Five world localities **4**:120, **4**:125  
In pegmatite environments **4**:125
- Austria**  
Millstätter Seenrücken, Carinthia **17**:(110)
- Bolivia**  
Socavon mine, Oruro district (tabular to 5 mm) **6**:136–137
- Canada**  
Yukon  
Rapid Creek: **15**:(45); euhedral to 2 cm **23**:Y16–17d,c,p,h,q
- 
- United States**  
California  
Champion mine, Mono County (crystals to 2.5 cm) **8**:480, **8**:485p
- New Hampshire  
Palermo mine **9**:(113)
- 
- AUGITE**
- Australia**  
New South Wales  
Prospect quarry (diopside) **25**:188d
- Brazil**  
São Paulo  
Jacupiranga mine **15**:267
- Canada**  
British Columbia  
Ice River complex (dark green, titanian) **12**:224
- Ontario  
Lake Clear area, Renfrew County (crystals to 15 cm) **13**:212–213  
Steenburg Lake, near Coe Hill (ferro-augite) **13**:73q, **13**:78n
- Québec  
Mt. St-Hilaire **21**:298n
- Czech Republic (formerly Czechoslovakia)**  
Paskapole (euhedral to 5 cm) **22**:459
- Germany**  
Rheinland-Pfalz  
Laacher See area, Eifel district **8**:323–324d
- United States**  
Arizona  
Bisbee district **12**:291n  
New Cornelia mine, Pima County (micro grains) **14**:294
- California  
Jensen quarry, Riverside County (needles) **15**:287n
- New Mexico  
Willow Creek, Sierra County **20**:60
- Pennsylvania  
French Creek mine (crystals to 4.2 cm) **25**:112
- 
- AURICHALCITE**
- Australia**  
Northern Territory  
Moline **12**:110n
- South Australia  
Billy Springs mine **12**:107n
- Canada**  
British Columbia  
Willett mine, near Lardeau **15**:92p
- England**  
Derby  
Rutland Cavern, Matlock Bath **14**:21p
- Stafford  
Ecton Hill **14**:21p
- Italy**  
Tuscany  
Fantiscritti quarry, Carrara region **18**:286
- Greece**  
Kamaréza mine, Laurium (minute acicular) **7**:124
- Mexico**  
Durango  
Ojuela mine (in calcite) **18**:406p
- Namibia**  
Tsumeb **8**:T19n, **8**:T64p
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12**:(250)
- United States**  
Arizona  
Cole shaft, Bisbee district (reniform) **12**:292  
Copper Queen mine, Bisbee district (tubes) **12**:292  
Grand Reef mine, Graham County (uncertain id) **11**:223



## GENERAL INDEX

- Grandview mine, Coconino County **2:219, 2:221q**  
 Isle Royale mine, Pima County **19:(210), 19:331n**  
 Mammoth mine, Pinal County **11:165**  
 New Cornelia mine, Pima County **14:294**  
 79 mine: feathery; lath-like crystals **3:252, 3:268–269p**; terminated crystals **18:299–301p**  
 Shattuck shaft, Bisbee district (5 cm fibrous) **12:292**  
 Silver Bell mine, Pima County (aurichalcite-rosasite) **18:359n**  
 Silver Bill mine, Cochise County (micro) **11:261, 14:130**  
 Silver Hill mine, Pima County **18:(150), 19:(312)**  
 Southwest mine, Bisbee district **12:280p, 12:292, 19:331**  
 Tonopah-Belmont mine, Maricopa County **19:142**
- California**  
 Custer mine group, Inyo County **15:13n,p**  
 Defiance mine, Inyo County **15:13n**  
 Zinc Hill mine, Inyo County: **15:13n**; crystalline balls to 3 mm **6:112**
- Colorado**  
 Little Jonny/Ibex mine, Leadville district **16:(190)**
- New Jersey**  
 Buckwheat open pit, Franklin **14:185n**  
 Sterling mine (fibers to 5 mm) **25:97, 25:98p**
- New Mexico**  
 Blanchard claims, Socorro County **20:36**  
 Carnahan mine, Santa Fe County **20:(63)**  
 Graphic mine, Socorro County (in calcite) **20:18**  
 Hansonburg district, Socorro County **20:36**  
 Kelly mine, Socorro County: **20:18p**; smithsonite on **19:117n**  
 Magdalena district, Socorro County **20:17–18**  
 Portales mine, Socorro County **20:38p**
- Utah**  
 Dry Canyon, Tooele County **21:(484)**
- Zambia**  
 Broken Hill mine **11:343n**
- 
- AURICUPRIDE**  
 Locality not specified **13:391–392h,q**  
 Seven world localities listed **13:391–392**
- 
- AUROBISMUTHINITE**  
 Incompletely described mineral **13:397**
- 
- AUROCUPROITE**  
*Incompletely described mineral*  
**Russia (formerly USSR)**  
 Talnakh deposit, Siberia **13:398q,h**
- 
- AURORITE**  
**United States**  
 Nevada  
 Aurora mine, White Pine County **16:43**
- 
- AUROSIBITITE**  
 Locality not specified **13:392q**  
 Seven world localities listed **13:(395)**
- Australia**  
 Victoria  
 Costerfield **18:(28)**
- Canada**  
 Northwest Territories  
 Giant Yellowknife mine **13:394–395**  
 Ontario  
 Chesterville mine, Larder Lake (grains) **13:394n**  
 Hemlo gold deposit **17:(340)**
- Québec  
 Tonawanda mine, Abitibi district (massive) **21:486n**
- 
- AUSTINITE**  
**Greece**  
 Kamaréza mine, Laurium (green micro crystals) **7:123n**
- Namibia**  
 Tsumeb (some cuprian) **8:T19n, 8:T61p**
- United States**  
 Colorado  
 Tuckers tunnel prospect, La Plata County (cuprian) **11:37–38p,q**  
 Nevada  
 Gold Hill **14:56n, 15:113p**  
 New Jersey  
 Sterling Hill mine: minute brown spheres **13:36**; minute spheres **10:160q, 10:161p**
- 
- AUSTRALIA**  
 Early Australian mineralogy **19:357–364**  
 Major gold deposits **18:5–32h,m,p,g**  
 Map of major gold rushes **18:11m**  
 Microminerals **12:105–111m**  
*Mineralogical Record* articles on Australia, index of **19:355**  
 Scotia **9:113s**  
 Special issue **19:#6**  
 Visiting **18:157**
- New South Wales**  
 Alura mine, Cobar **18:365s**  
 Ardglenn quarry, Ardglenn **19:390m, 19:397–401g, 19:405h**  
 Arsenic shaft, Kingsgate mines **16:267m, 16:273**  
 Ben Lomond (“Big Cutting” on railway nearby) **19:390m, 19:403–405g,h**  
 Beyer & Holtermann claim, Hawkins Hill **18:19–20, 18:84s**  
 Blackwood’s Pit, Broken Hill **18:157s**  
 Block 14 Lease, Broken Hill **19:466s**  
 British mine, Broken Hill **7:25–33**  
 Broken Hill: **4:5, 7:25–33h,m,p,g, 12:109–110, 14:215–216s, 14:253b, 15:109s, 18:157s, 19:273–274s, 19:372–373h,s, 19:417–424g,h,m, 20:300s**; collecting at **19:461–462s**; pegmatite near **4:125s**; see also Australia—New South Wales—Broken Hill  
 Proprietary mine; Australia—New South Wales—New Broken Hill Consolidated mine  
 Broken Hill Proprietary mine **19:418–419s, 19:423s**  
 Burrandong **18:18s**  
 Canadian Lead, Home Rule **18:30s**  
 Carcoar (Carcoara, Carcoare), near Bathurst **22:387s, 23:84–85h,s, 23:432h**  
 Cobar **4:5h,s**  
 Consolidated (“Consols”) mine, Broken Hill **7:25–33**  
 Eleura (Alura) mine, Cobar **20:236s**  
 Elsmore (Ellsmore?), Invernell **15:119s, 20:393s**  
 Elura mine, near Cobar **19:467s**  
 Emu quarry, Prospect Hill (see Prospect quarry)  
 Forty mine, Kingsgate mines **16:267m, 16:274p**  
 Garrawilla area, near Coonabarabran **19:390m, 19:394–397, 19:405h, 23:432s**  
 Giant Blow, Kingsgate mines **16:267m, 16:274**  
 Glendonbrook, Hunter Valley area, Central Coast **7:60–68h,g,m**  
 Glen Innes **12:110s**  
 Goodwin’s Pipe, Kingsgate mines **16:267m, 16:275p**  
 Granite shaft, Kingsgate mines **16:267m, 16:278**  
 Hillgrove **18:28s**  
 Hunter Valley area, Central Coast **7:60–68h,g,m**  
 Huskisson, Jervis Bay **7:65**  
 Kembla Grange **6:251s**  
 Kingsgate mines **16:265–289h,g,m,p**
- Kintore opencut, Broken Hill **19:425–436g,h,m**  
 Kyogle (Tweed volcano) **19:390m, 19:404–405g**  
 Lidell, Hunter Valley area, Central Coast **7:64m, 7:65h**  
 London Bridge, near Queanbean **11:13s**  
 Lucknow mines, near Orange **18:28s**  
 Meroo Creek, near Hargraves **18:6s**  
 Merriwa area **19:390m, 19:401–403**  
 Microminerals **12:109–110**  
 Mitchells Creek, Garawilla area, near Coonabarabran **19:390m, 19:394–397**  
 Monkey shaft, Kingsgate mines **16:267m, 16:275**  
 Moonta **4:5s**  
 Mt. Morgan mine, Kingsgate mines **16:267m, 16:278**  
 Mt. Vincent, Hunter Valley area, Central Coast **7:64m, 7:65**  
 New Broken Hill Consolidated mine, Broken Hill **19:420h, 19:422s, 23:469–470**  
 North mine, Broken Hill **7:25–33, 19:422s**  
 Nundle **18:31s**  
 Oban (near) **19:374s**  
 Old 45 (see Sachs’ pipe)  
 Old South mine, Broken Hill **19:418s**  
 Old Tunnel (see One and Nine tunnel)  
 Old 25 mine, Kingsgate mines **16:267m, 16:278p**  
 One and Nine tunnel (Old Tunnel), Kingsgate mines **16:267m, 16:278–279**  
 Ophir, Bathurst district **18:8–9p,h**  
 Proprietary mine, Broken Hill **7:25–33, 19:417–420h**  
 Prospect quarry, Prospect Hill, west of Sydney **25:185–194h,g,p,m**  
 Purnamoota **22:387s**  
 Quorrobolong, Hunter Valley area, Central Coast **7:64m, 7:65h**  
 Road shaft, Kingsgate mines **16:267m, 16:283s**  
 Sachs’ Old 45 (see Sachs’ pipe)  
 Sachs’ pipe (Old 45, Sachs’ Old 45), Kingsgate mines **16:267m, 16:276–277p**  
 South mine, Broken Hill **7:25–33, 18:157s, 19:419s**  
 Style’s quarry, Prospect Hill (see Prospect quarry)  
 Tingha **19:385s**  
 Tin shaft, Kingsgate mines **16:267m, 16:279**  
 Tweed volcano, Kyogle **19:390m, 19:404–405g**  
 25 North mine, Kingsgate mines **16:267m, 16:279p**  
 Unanderra quarry **19:390m, 19:392–395h**  
 Warrum Bungle volcano **22:387s**  
 Water Cut (see Wet shaft)  
 Wentworth Proprietary mine, Lucknow **18:12p**  
 West Bogan mine, near Tottenham **9:295s, 12:110s**  
 Wet shaft (Water Cut), Kingsgate mines **16:267m, 16:277–278**  
 White Cliffs **7:60**  
 Widemere quarry, Prospect Hill (see Prospect quarry)  
 Willy Wally Gully, near Merriwa **19:390m, 19:401–403g, 19:405h**  
 Wolfram pipe, Kingsgate mines **16:267m, 16:279**  
 Zeolites **19:389–406m,g**  
 Zinc Corp. mine, Broken Hill **19:418s**
- 
- Northern Territory**  
 Aryonga Aboriginal Mission area **10:121**  
 Brown’s Deposit, west of Rum Jungle uranium mine **9:37s, 11:287–291h,p,m,g, 12:110h**  
 Brown’s Prospect, Rum Jungle (see Brown’s Deposit)  
 Evelyn mine, Pine Creek **21:487s**

## GENERAL INDEX

- Harts Range, northeast of Alice Springs: **15:99–101g, 21:487s, 21:571–574h,g,p,m**; eastern **19:467s**
- Jabiru, South Alligator River **19:462s**
- Microminerals **12:110**
- Moline **12:110s**
- Mt. Bonnie mine **9:114s, 19:441–450m,h,g**
- Mt. Brady (southeast of), Harts Range **11:371–375h,g,p,m**
- Mud Tank **21:487s**
- Ranger #1 mine, Ranger district **18:150s**
- Rum Jungle (see Brown's Deposit)
- Stranways Range, northeast of Alice Springs **15:100g**
- Tennant Creek **18:28s**
- Wandi Diggings **18:84s**
- Queensland**
- Black Rock opencut, Mt. Isa mine **19:470–471s**
- Black Star opencut, Mt. Isa mine **19:471s**
- Blockade mine, Mt. Isa-Cloncurry district **19:474m, 19:489**
- Boomerang mine, Mt. Isa-Cloncurry district **19:474m, 19:486–487g,h**
- Charters Towers **18:10–12h,m, 18:14p**
- Chinaman's Flat, Cloncurry **18:18s**
- Cloncurry region **19:469–490m,h,g,p**
- Girofla mine, Mungana **19:378s**
- Gympie **18:18s, 18:22g**
- Iron Knob **10:302s**
- Lady Loretta deposit, Mt. Isa-Cloncurry district **19:474s**
- Maltese Cross field, Mt. Isa-Cloncurry district **19:474m, 19:489**
- Mary Kathleen deposit, Mt. Isa-Cloncurry district **4:143s, 19:474m,s, 19:489**
- Matlock mine (see Boomerang mine)
- Mica Creek area, Mt. Isa-Cloncurry district **19:475s**
- Milo deposit, Mt. Isa-Cloncurry district **19:474s**
- Mt. Cobalt mine **19:470s, 19:474m, 19:488–489g,h, 23:84–85h, 23:432s**
- Mt. Elliott mine, Mt. Isa-Cloncurry district **19:474m, 19:489**
- Mt. Glorius mine, Cloncurry **19:470s, 19:474m, 19:487–488g,h, 21:487s**
- Mt. Isa-Cloncurry district **19:469–490m,h,g,p**
- Mt. Isa mine **19:476–484p,h,g,m**
- Mt. Maggie mine (see Boomerang mine)
- Mt. Morgan **18:23g**
- Mt. Oxide mine, Cloncurry **18:431s, 19:470–471s, 19:474m, 19:484–486g,h, 24:49s**
- Mt. Surprise **19:378s**
- O'Brien's Soak, Mt. Isa-Cloncurry district **19:474**
- Reaphook Hill, Flinders Range **9:20–24p,g,h,m, 9:271h**
- Sailor's Gully, Gympie **18:18s**
- Shepard's Hill quarry, Brukunga **10:302s**
- Silver Phantom deposit, Mt. Isa-Cloncurry district **19:(474)**
- Soldiers Cap area, Mt. Isa-Cloncurry district **19:489s**
- Soldiers Gap area, Mt. Isa-Cloncurry district **19:474**
- Wolfdene **12:107s**
- Wolfram Camp **19:335s**
- South Australia**
- Agnew mine, near Leinster **21:487s**
- Angepina goldfield **18:27s**
- Arkaroola **11:73–76h,p,m,g**
- Balhannah mine, south of Adelaide **12:107s**
- Beltana mine (Puttapa deposit), Puttapa, Flinders Range **15:110s, 22:449–456h,m,g**
- Billy Springs mine **12:107s**
- Burra Burra mine, west of Burra **12:107s, 15:105–108g, 15:111s, 15:219–222g, 19:370h, 25:121–129h,m,g,p**
- Cattlegrid Pit, Mt. Gunson mines **14:50s, 15:109s**
- Coober Pedy **19:466s**
- Dome Rock **12:107s**
- Doora mine, Wallaroo district **19:408m, 19:415s**
- Flinders Range (northern) **12:107s**
- Hamley mines, Moonta district **19:408m, 19:413s**
- Hawker, north of (see Moralana)
- Iron Monarch quarry, Iron Knob, west of Whyalla **12:105–106g, 17:136s, 23:432s**
- Lake Gilles, northwest of Iron Knob **13:187–191g,p**
- Lake Gillies (see Lake Gilles)
- McMahon's pegmatite **12:107s**
- Microminerals **12:105–107m**
- Mintabie (near) **23:432s**
- Moculta quarry, near Angostan **12:106s, 12:393s, 16:477–480h,g,p**
- Moonta district **19:407–416m,p,g,h**
- Moralana, north of Hawker, Flinders Range **22:61–62s,h**
- Mt. Painter region **22:343–344s**
- New Cornwall mine, Kadina **19:408m, 19:412–414s**
- Olivers quarry, Noarlunga **12:106s**
- Onkaparinga **18:18s**
- Pinnacles mine, Yudnamutana, Flinders Range **15:110p**
- Poona mine, Moonta **22:387s**
- Port Clinton (near) **12:107s**
- Preamimma mine **12:107s**
- Princess Royal mine, southwest of Burra **25:121–122h,m**
- Puttapa deposit (Puttapa Zinc mine), Flinders Range (see Beltana mine)
- Reaphook Hill, near Blinman, Flinders Range **5:77s, 9:20–24p,h,g,m, 9:113s, 12:105s**
- St. John's quarry, east of Kapunda **12:106s, 12:393–394**
- Sir Dominick mine, Arkaroola **11:73–76h,p,m,g**
- Spring Creek mine, near Wilmington **12:107s, 21:487s**
- Teetulpa **18:18s**
- Tom's quarry, near St. John's quarry, east of Kapunda **12:393–394s**
- Wallaroo **19:373h, 19:407–416m,p,g,h**
- Wheal Gawler, Adelaide **19:370h**
- White Rock quarry, east of Adelaide **24:49s**
- Worturpa mine, North Flinders Range **18:365s**
- Yelta mine, Moonta district **19:408m, 19:413s**
- Tasmania**
- Adelaide mine, Dundas **3:111–113h, 5:87h, 8:25h,m, 10:188–189s, 19:372h, 19:382m, 19:384h, 19:384–388s**
- Anderson mine, Dundas **8:25m, 8:26h**
- Bald Hill, Heazlewood **19:385s**
- Bonanza mine, southeast of Dundas **8:25m, 8:26h**
- Colebrook Hill mine, near Rosebery **9:56s, 11:14s, 19:382m, 19:385**
- Comet-Maestries mine, Dundas **19:384s**
- Comet mine, east of Dundas **8:25h,m**
- Crocoite localities **8:24–26h,m**
- Doughboys **23:432s**
- Dundas area mines **5:87h, 12:108–109, 19:116s**
- Great South Comet mine, southeast of Dundas **8:25h,m**
- Kapi mine, northeast of Dundas **5:88, 8:26h, 19:382m, 19:385–387s**
- Kosminsky mine, southeast of Dundas **8:25h,m, 19:388s**
- Lead mines **5:87–88h**
- Localities not specified **8:113s, 19:381–388m,p,g,h, 20:72s**
- Lord Brassey mine, Heazlewood **19:382m, 19:384, 19:385s**
- Maestri's mine, east of Dundas **8:25h,m**
- Magnet mine, Waratah **19:382m, 19:383–384h**
- Microminerals **12:108–109**
- Mt. Bischoff mine, Waratah **19:382–383m,p,h**
- Mt. Cleveland mine, Luina **19:383m,h, 19:385s**
- Mt. Lyell mine, Queenstown **19:382m, 19:384h**
- Pieman River, west of Waratah **19:385s**
- Platt (Platt's) mine, east of Dundas **5:88, 8:25–26h,m**
- Razorback mine **5:88**
- Red Lead mine, east of Dundas **5:88h, 8:25h,m, 19:385s, 20:393s, 23:84s**
- Renison mine **19:382m, 19:384–385s**
- Rocky River **18:18s**
- Stichtite Hill, above Adelaide mine, Dundas **19:388s**
- Sylvester mine, Zeehan **8:391–392, 8:517s, 19:388s**
- Trial Harbor **19:382m, 19:388s**
- Tunnel Hill, Renison Bell **19:388s**
- West Comet mine, Dundas **5:88, 8:25h,m**
- Victoria**
- A1 mine, Walhalla-Woods Point goldfield **18:28s**
- Bakery Hill, Ballarat **18:18s**
- Ballarat **18:9p,h, 20:352s**
- Bendigo **18:9–10h,m, 18:22g**
- Berry's Beach, Phillip Island **19:453m, 19:454–457p**
- Bridgewater, west of Bendigo **18:7s**
- Bundoora **21:487s**
- Cairns Bay, near Flinders **19:453m, 19:454–457**
- Canadian Gully, Ballarat **18:18s**
- Cape Schank, near Flinders **19:453m, 19:456**
- Castlemaine **18:31s**
- Chinese Gardens, Robertson's Gully, Wedderburn **18:30s**
- Clunes **18:29s**
- Costerfield **13:395s**
- Creswick **18:25s**
- Eagle Hawk mine, Union Reef, Maldon **13:391s**
- Flinders area: **19:451–460m,g,h**; sea cliffs **12:108s**
- Glen Wills **18:28s**
- Golden Crown mine, Yarambat **18:26–27s**
- Golden Triangle area **18:365**
- Goulburn River, Jamieson **18:25s**
- Helens Head, Phillip Island **19:453m, 19:456–460**
- Jindeveik quarry, near Warregul **19:199–200s**
- Jones Creek, near Dunolly **18:6s**
- Kangeraar **18:18s**
- Kennon Head, Phillip Island **19:453m, 19:454–457**
- Kingower **18:7s, 18:18s**
- Kitty Miller Bay, Phillip Island, near Flinders **12:108s, 19:453m, 19:456–460**
- Little Bird Rock, near Flinders **19:453m, 19:456**
- Maldon goldfield **15:476, 18:28s**
- Marygorough **18:18s**
- Matlock **18:31s**
- Microminerals **12:105m, 12:107–108**
- Minerals of the Maldon Goldfield* **15:47b**
- Moliagul, Dunolly **18:18s**
- Moralla, Black River, near Cavendish **18:141s, 20:72s, 21:487s**
- Mt. Wills **18:28s**
- Narre-Warren quarry, near Berwick **12:108s, 17:138s, 18:435s, 18:438s, 20:463s**
- Nuggety Reef, Maldon goldfield **13:391s, 18:28s**
- Old Golden Point, Fryers Creek **18:18s**
- Ouyen **12:108s**
- Phelans Bluff, Phillip Island **19:453m, 19:456**
- Phillip Island **12:108s, 19:451–460m,g,h,p**
- Phosphate Minerals of Victoria* **25:305b**
- Point Sambell, Phillip Island **19:453m, 19:455s**

## GENERAL INDEX

- Pyramid Rock, Phillip Island **19**:453m, **19**:454–460
- Red Cliff Head, Phillip Island **19**:453, **19**:454–457p
- Rheola, Dunolly **18**:18s
- Robinson's Reef, Port Phillip **16**:123s
- St. Arnaud **18**:29s
- Simmon's Bay, Flinders **17**:269s, **17**:377–379s
- Skipton Cave, near Ballarat **9**:113s, **19**:361s
- Steiglitz **18**:28s
- Sunderland Bluff, Phillip Island **19**:453m, **19**:455–460
- Taradale **18**:25s
- Tarnagulla **18**:18s
- Trentham **12**:108s
- Tylden **12**:108s
- Walhalla-Woods Point **18**:22–23g
- Wedderburn **19**:467s
- Wehla **18**:27s
- West Head, Flinders **19**:453m, **19**:456
- Zeolites of Victoria* **21**:497b
- Western Australia**
- Agnew **9**:113s
- Anticline (Bali High) prospect, Ashburton Downs **24**:204–205p,m,g
- Argyle mine **21**:559–564h,p,m,g
- Ashburton Downs, Capricorn Range, Pilbara region **21**:487s, **24**:203–218h,p,m,g
- Bali High (Bali Hi) prospect (see Anticline)
- Bali High East prospect (see Bali East)
- Bali Lo (Bali Low, Casleys) prospect, Ashburton Downs **12**:110s, **24**:204–205m,g
- Bali South prospect, Ashburton Downs **24**:204–205m,g
- Carr Boyd deposit **8**:517s, **9**:113s, **10**:302s
- Carr Boyd Rocks mine **9**:40s
- Casleys prospect (see Bali Lo)
- Cattlegrid pit, Mt. Gunson mines (see South Australia)
- Cocklebidy **9**:113s
- Coolgardie **9**:113s, **18**:11m,h
- Coppin Pool **23**:432s
- Dandaragan **9**:113s
- Donnybrook **18**:26s
- Glen Florrie **9**:113s
- Greenbushes tin deposit **9**:81–84p,h,m,g, **12**:110s
- Happy Jack mine, Comet Vale **18**:29s
- Jurien **9**:113s
- Kalgoorlie **13**:393–396s, **15**:38s, **18**:11–12h, **18**:24g, **18**:27s, **19**:11m,h
- Kambalda **9**:40s, **19**:467s, **21**:487s
- Kundip **9**:113s, **9**:114s
- Lake View mine, Kalgoorlie **9**:114s
- Larkinville **18**:18s
- Ledge prospect, Ashburton Downs **24**:204–205m,g
- Londonderry **9**:113s, **18**:18s
- Marda **16**:121–122s
- Meekatharra mine, Meekatharra, Murchison district **23**:432s
- Microminerals **12**:110
- Milgun Station **8**:390s, **8**:517s, **9**:113s, **12**:110s
- Moorba Cave, Jurien Bay **9**:113s
- Mt. Edgar Pastoral Station **19**:311s
- Mt. Newman **12**:110s
- Mulgabbie **13**:395–396s
- Murra-el-Elevyn Cave, Cocklebidy **9**:113s
- Ninghanboun Hills **9**:113s
- Nullagine (north of) **9**:39s
- 132 North deposit, Widgiemooltha district, north of Widgiemooltha **25**:283–291, **25**:302h,m,g
- Petrogale Cave, east of Madura **9**:39s
- Purnamoota **23**:432s
- Star mine, Kalgoorlie **9**:114s
- Stockyard Creek prospect, Ashburton Downs **24**:204–205m,g
- Tabba Tabba **23**:432s
- Wealth of Nations, Coolgardie **18**:18s
- Whim Creek copper mine, Pilbara region **14**:175s, **19**:311s, **20**:393s, **25**:203–204
- Whim Well mine, Pilbara region of Whim Creek gold field **19**:466s
- Widgiemooltha: **9**:113s; near **23**:432s
- Wodgina, Pilbarra district **5**:265g,h, **9**:14s
- Yinnietharra (Yinnithara, Yinniethara) **1**:101s, **8**:104–106s, **8**:109–110h,g
- Zoroastrian mine, Bardoc **18**:30s
- AUSTRIA**
- Alpinen Klufmineralien der österreichischen Ostalpen, Die* **8**:66b
- Alpine rare-earth mineral localities **8**:287–292
- Floitalental-Stilluppgrund power plant **17**:107s
- Gertrusk **17**:110s
- Hocharn (west side) **17**:106s
- Minerali Alpini e Prealpini* **7**:315–317b
- Oberdorf an der Laming **9**:134s
- Schwarzenbach, south of Bleiberg: **3**:148, **3**:183h; see also Slovenia—Mežica mine
- Survey of important localities **17**:105–110h,p
- Carinthia**
- Altstefanie dump, Kadutschen, east of Bleiberg **17**:367s
- Bleiberg **3**:148h,p, **17**:107h, **17**:355–369h,m,p,g
- Brandrücken, Koralpe, Carinthia/Styria **17**:110s
- Federaun, Bleiberg **17**:357p
- Kuppergrund, Koralpe **8**:291s
- Millstätter Seenrücken **17**:110s
- Modriach, Pack Alpe, Carinthia/Styria **17**:106s
- Pusygraben, near Lölling **17**:107s
- Raibl, Bleiberg **17**:363s
- St. Leonhard, Saualpe **8**:291s
- Saualpe **17**:106s
- Schwarzenbach (see Slovenia—Črna)
- Stefanie mine, Bleiberg: **17**:109s, **17**:363s; cover photo **17**:#6s
- Tauern gold district **13**:369–370h
- Weinsberger Graben, Saualpe **17**:110s
- East Tyrol**
- Frossnitzalpe **17**:106s, **20**:483s
- Grossvenediger area (not specified further) **8**:287, **17**:107s
- Laperwitzbachgraben, near Kals **17**:106s
- Prägraten, Grossvenediger region **8**:287
- Saurüssel **17**:106s
- Vorderen Eichamspitze **17**:106s
- Salzburg**
- Achselalm mine, Hollersbachtal **17**:106s
- Böckstein quarry, Bad Gastein **8**:288s, **8**:291s, **23**:89s
- Deisl quarry, Rauris Valley **8**:288s
- Die Minerale Salzburgs* **21**:498b
- Dunkelklamm, Habachtal **17**:106s
- Eiskögele, Stubachtal **17**:107s
- Felbertal mine **17**:106s, **19**:272s
- Grieswies area, near Kolm Saigurn **13**:173, **20**:463s
- Grieswies, near Rauris **23**:89s
- Grossvenediger area (not specified further) **8**:287, **17**:107s
- Habachtal, Grossvenediger **8**:287, **11**:317s, **20**:483s, **23**:504b
- Hohen Tauern power station galleries, near Böckstein **17**:106s
- Hollersbachtal **17**:106s
- Hopffeldboden, Obersulzbachtal **17**:106s
- Kaiserer Co. quarry, south of Rauris **13**:171–173
- Knappenwand, Untersulzbachtal **11**:14s, **14**:373s, **17**:105–106s, **17**:167–181h,m,p,g, **19**:124s, **19**:340b
- Krimmler-Achtal **17**:106s
- Leckbachrinne, Habachtal **17**:105–106s
- Lienzinger, Hollersbachtal **17**:106s
- Lohninger Co. quarry, south of Rauris **13**:171–173
- Mineralfundstellen im Land Salzburg* **21**:498b
- Mineral-Fundstellen: Tirol, Salzburg, Südtirol* **7**:315b
- Mitterberg mine **17**:110s
- Obersulzbachtal **17**:107p
- Prehnitinsel, Habachtal **17**:107s
- Rauris **8**:287s, **8**:288s, **8**:291s, **17**:106s
- Salzburg Mineralogical Handbook* **9**:256b
- Schafkar, near Kolm Saigurn **13**:173
- Schiedergraben, Felbertal **17**:106s
- Schwarzes Hörndl, Untersulzbachtal **17**:106s
- Schwarze Wand, Hollersbachtal **17**:107s
- Sonnblick Mountain, near Kolm Saigurn **13**:171p, **13**:173
- Stubachtal **17**:106s
- Teufelsmühle, Habachtal **17**:106s
- Totenkopf, Stubachtal **17**:107s
- Untersulzbachtal **8**:288s, **17**:107p, **17**:168–169g,h,p
- Styria**
- Brandrücken, Koralpe, Carinthia/Styria **17**:110s
- Eisenerz **15**:118s
- Hebalpenstrasse, Packalpe **8**:291s
- Hohentauern mine **17**:110s
- Klöch, ein Südostösterreichisches Basaltvorkommen und Seine Minerale* **21**:498b
- Kraubath **17**:127s
- Modriach, Pack Alpe, Carinthia/Styria **17**:106s
- Oberdorf an der Laming mine **17**:110s
- Schwemmhöls quarry, near Deutschlandsberg **17**:106s
- Stubalpe **17**:107s
- Tyrol**
- Berliner Hütte, Zemmgrund **17**:107s
- Mineral-Fundstellen: Tirol, Salzburg, Südtirol* **7**:315b
- Südtirol: Bergwerke, Höhlen, Heilquellen* **23**:413b
- Zillertal Alps **17**:107s
- AUTHOR GUIDELINES**
- General: **7**:127–128, **9**:135, **11**:105, **12**:399, **15**:195, **17**:400, **20**:420; revised **16**:105; with references to additional “guide” articles **24**:418
- Locality articles **17**:393–400
- Locality species lists **22**:133–134
- AUTUNITE**
- See also *Meta-autunite*
- Chernikovite (formerly hydrogen autunite) compared with **19**:251q
- Australia**
- South Australia
- Beltana mine (crystals to 5 mm; some cuprian) **22**:451–452c,d
- Moonta mines **19**:(412)
- Brazil**
- Minas Gerais
- Malacacheta (near) (crystals to 2.5 cm) **13**:181n, **13**:183p, **15**:166p
- Paraíba
- Alto Benedito pegmatite, northwest of Picuí (coatings) **22**:184n
- Canada**
- Québec
- Wilberforce (north of) (id as fl. coating, poss. stevensite, on diopside) **17**:339n
- France**
- Luzy, Saône et Loire (6 mm crystals; poss. uranocircite) **14**:173
- Italy**
- Sardinia
- Arcu su Linnarbu, Cagliari **18**:181, **18**:182p
- United States**
- California
- Zinc Hill mine, Inyo County **15**:13n

## GENERAL INDEX

- Colorado  
 La Sal mine (near), Boulder County **7**:279n  
 New Hampshire  
 Palermo mine **5**:278n  
 South Dakota  
 Tip Top mine **17**:239  
 Washington  
 Pend Orielle County (yellow fl. crusts)  
**13**:181n, **13**:183p
- 
- “**AVELINOITE**”  
*See* *Cyrilovite*
- 
- AVICENNITE**  
**United States**  
 Utah  
 Lookout Pass, Tooele County **20**:391

### AWARDS AND TROPHIES

- Carnegie Mineralogical Award: 1987, Tucson Gem and Mineral Society **19**:214–215; 1988, John Sinkankas **20**:237; 1989, Frederick Pough **21**:260; 1990, Paul Desautels **22**:220; 1991, Miguel Romero **23**:281; 1992, Carl Francis **24**:238; 1993, Cornelius Hurlbut **25**:219  
 Desautels Award: established 1991, Gene Meieren **22**:220; 1992, Bill Moller **23**:281; 1993, F. John Barlow **24**:238; 1994, Rukin Jelks **25**:219  
 Detroit Challenge Cup, record low score **22**:151  
 Diversity in mineral collecting: guest editorial **22**:410–411; responses **23**:286–288  
 Fluorescent display, California Federation Show (1970, Don Newsome) **1**:36  
 Lidstrom trophy: 1980, Dave Eidahl **11**:193; 1981, Philip Scalisi **12**:181; 1983, Kerith Graeber **14**:176; 1984, Les Presmyk **15**:181; 1985, Richard Tripp **16**:313; 1986, Keith Proctor **17**:211; 1987, Tom McKee **18**:246; 1988, Evan Jones **19**:214–215; 1989, Evan Jones **20**:237; 1990, Steve Neely **21**:260; 1992, Al Partee **23**:277; 1994, Rukin Jelks **25**:219  
 McDole trophy: 1975, F. John Barlow **6**:142; 1976, F. John Barlow **7**:136–137; 1977, Julius Zweibel **8**:284; 1978, F. John Barlow **9**:194; 1979, Keith Proctor **10**:187; 1980, Dave Eidahl **11**:193; 1981, Philip Scalisi **12**:181; 1982, Jim Bless **13**:184; 1983, Kent England **14**:176; 1984, Bill Moller **15**:181; 1985, James and Dawn Minette **16**:311; 1986, Keith Proctor **17**:211; 1987, Tom McKee **18**:246; 1988, Jim and Von Ceil Bless **19**:214–215; 1989, Alexander Schauss **20**:237; 1990, Ann Meister **21**:260; retired, 1991 **22**:220  
*Mineralogical Record* slide competition: 1971 **2**:97; 1972 **3**:193; 1973 **4**:231; 1974 **5**:201; 1975 **6**:161; 1976 **7**:136; none in 1977 **8**:284; 1978 **9**:194–195; 1979 **10**:292; 1980 **11**:210–211; 1981 **12**:184–186; none in 1982 **13**:184; 1983 **14**:176; ends **14**:210  
 Outstanding *Mineralogical Record* article: 1980 **12**:186; 1981 **13**:184; 1982 **14**:176; history, 1981, 1982 winners **15**:3; 1983 **15**:181; 1984 **16**:313; 1985 **17**:212; 1986 **18**:246; 1987 **19**:214; 1988 **20**:237; 1989 **21**:260; 1980–89, with bio sketches of authors **22**:143–149; 1990 **22**:313; 1991 **23**:417; 1993 **25**:219  
 Outstanding *Rocks & Minerals* article award established **22**:313  
 Russel Medal (1992, Robert J. King) **23**:45
- 
- AWARITE**  
**United States**  
 Pennsylvania/Maryland  
 Line pit, State Line district (thin sheets)  
**12**:155

### AXINITE GROUP

- See also names of individual species*
- 
- Australia**  
 New South Wales  
 Broken Hill **19**:424n; crystals over 25 mm; some malachite after **7**:30  
 Cobar **4**:5  
 Kintore opencut, Broken Hill **19**:(428)  
 Northern Territory  
 Aryonga Aboriginal Mission area (discoidal concretions) **10**:121  
 Queensland  
 Boomerang mine (some rhombohedral crystals) **19**:487  
 Mt. Glorious mine (malachite, chrysocolla after) **19**:488  
 Mt. Isa mine **19**:478  
 Mt. Oxide mine **19**:485  
 South Australia  
 Burra Burra mine: after libethenite **12**:107, **15**:107p; bladed rosettes to 5 cm, varied micro crystals, some after libethenite **25**:126, **25**:128p; 5 cm blades and rosettes **15**:105–107p; malachite, chrysocolla, limonite after; after pseudomalachite **15**:219–221p; malachite prob. after twinned **15**:111p  
 Moonta mines **19**:(412)  
 Preamimma mine **12**:(107)  
 Sir Dominick mine, Arkaroola (malachite after euhedral to 4.5 cm) **11**:74–76p  
 Wallaroo mines **19**:(413)
- 
- Brazil**  
 Paraná  
 Bassetti prospect (micro) **6**:282–283n  
 Santa Catarina  
 Ribeirão da Prata prospect (micro) **6**:282–283n
- 
- Canada**  
 British Columbia  
 Menzies Bay, Vancouver Island **15**:89  
 Northwest Territories  
 Port Radium **20**:(207)
- 
- China**  
 Guang Dong province (rosettes to 13 cm) **11**:321p  
 Yang Chweng mine, Guangdong **18**:365n
- 
- England**  
 Stafford  
 Ecton mines (micro crystals) **14**:23n
- 
- France**  
 Chessy, Lyons: **4**:4p, **11**:28; “chessylite” **2**:69–72p,d; malachite after **15**:146
- 
- Germany**  
 Hessen  
 Phillipseck mine, near Munster (micro crystals) **8**:307p  
 Rheinland-Pfalz  
 Friedrichsseggen mine **15**:334d, **15**:342n  
 Rosenberg mine, Ems district **15**:342n
- 
- Greece**  
 Kamaréza mine, Laurium (euhedral to 11 mm; some malachite after) **7**:124  
 Laurium (micro crystals) **9**:134n
- 
- Ireland**  
 Tynagh quarry, Galloway district **20**:396
- 
- Italy**  
 Tuscany  
 Boccheggiano mine (micro crystals) **10**:284  
 Calagio quarries **18**:280p  
 Carrara region **18**:285
- 
- Mexico**  
 Chihuahua  
 Batopilas district **17**:(79)  
 Zacatecas  
 Concepcion del Oro: atacamite after, 5 cm **15**:240p; clear to 6 mm **4**:34  
 El Cobre district (altering to malachite) **4**:35p
- 
- Austria**  
 Schwemmois quarry, Styria **17**:(106)  
 Weinsberger Graben, Carinthia **17**:(110)
- 
- Brazil**  
 Bahia  
 Santa Rosa (orangish crystals to 7.5 cm) **11**:317n
- 
- Canada**  
 Ontario  
 Pinchin (Bonter) quarry, near Malone **13**:73  
 Yukon  
 Grey Cloud claim, near Hart River (3 cm gemmy) **12**:183
- 
- France**  
 Bourg d’Oisans (near), Isère (euhedral to 5 cm) **11**:28, **21**:489n
- 
- Italy**  
 Lombardy  
 Baveno area (micro druzes) **14**:161
- 
- Norway**  
 Bergen (near), Hordaland (3 cm) **22**:391n  
 Kongsberg **17**:(35)  
 Ulvik, Hordaland (15 cm groups) **22**:391n
- 
- Russia (formerly USSR)**  
 Dal’negorsk **22**:221n  
 Paiva (Puiva), northern Urals **23**:84n, **23**:433n, **24**:219
- 
- United States**  
 California  
 Fallbrook (near), San Diego County (5 cm gemmy crystal) **8**:513  
 Little Three mine, San Diego County (2.5 cm crystals) **8**:515  
 Miracle Mountain mine, Calaveras County (crystals to 7 cm) **15**:313  
 Thornberry Mountain, Madera County (5.5 cm euhedral) **21**:127–132p  
 Nevada  
 Julie claim, near Hawthorne, Mineral County **16**:76  
 Luning (near), Mineral County **12**:394  
 New Jersey  
 Franklin mine (id as manganaxinite) **10**:163, **10**:164q  
 Pennsylvania  
 Keystone Trappe Rock quarry, Chester County **2**:19n
- 
- AZERBAIJAN**  
 Dashkesan **20**:74s
- 
- AZOVSKITE**  
*Uncertain species; poss. = delvauxite*
- 
- United States**  
 Maryland  
 Greenbelt, Anne Arundel County (prismatic) **4**:114
- 
- AZURITE**  
 Chrysocolla after (several AZ localities) **11**:250  
 Featured in The Collector column; numerous world localities **4**:4–5ff  
 Habits and haunts of azurite microcrystals (abstract) **22**:69  
 Symposium on azurite and other copper carbonates (abstracts) **22**:65–69p,q,c,d  
 Toxicity **11**:6, **11**:8

## GENERAL INDEX

### Morocco

- Bou Beker mine **21:256**  
 Kerroucher (blocky to 3 cm) **10:123**  
 Touissit mine: **11:113**, **15:347n**; cluster of 4 cm bladed **22:225n**; sharp, brilliant crystals; some malachite after **11:59–61p**

### Namibia

- Tsumeb: **8:T48**, **8:T74–75p**, **17:150n**, **17:341n**, **19:272n**, **19:337n**, **20:(397)**, **22:53n**; after tennantite **8:T33n**; blocky single, to 6 cm **12:180p**, **12:181n**; euhedral to 25 cm, malachite after some **8:T19**; jarosite after **8:T26n**; “Newmont Azurite” **9:192p**; 10 cm crystals **18:367n**; 30 cm crystals **4:5**, **4:34–35p**; to 10 cm, arsentsumebite replacing some **22:391n**; willemite, smithsonite after **12:45n**

### New Zealand

- Tui mine (crystals to several cm) **6:29p**, **6:30**

### Russia (formerly USSR)

- Solotuschinsk, Altai (massive) **4:4n**

### Scotland

- Strathclyde/Dumfries and Galloway  
 Leadhills-Wanlockhead district **12:(250)**

### South Africa

- Transvaal  
 Messina district (crusts) **22:193**

### Switzerland

- Obersaxen, Grisons (micro crystals with malachite “wires”) **6:308p**

### United States

#### Arizona

- Atlanta shaft, Bisbee district (reniform with malachite) **12:293**  
 Azurite and other copper carbonates in northern Arizona solution-collapse breccia pipes (detailed abstract) **22:67–68**  
 Bagdad mine, Yavapai County (chrysocolla after, to 10 cm) **4:5**  
 Bisbee district: **4:5n**; chrysocolla after **12:302**; malachite after **12:308**, **12:313p**; numerous mines and habits **12:280–281p**, **12:284p**, **12:292–294c,d,p**, **12:300p**; on malachite after **12:281p**; overgrown on malachite after **12:292**  
 Blue Ball mine, Gila County **20:447–450c,p**  
 Bluebird mine, Gila County (malachite, chrysocolla after) **19:117–120p**  
 Campbell shaft, Bisbee district: malachite after euhedral to 18 cm **12:308**, **12:313p**; sharp to 10 cm **12:293**  
 Cole shaft, Bisbee district (rosettes, bladed) **12:293**  
 Copper Queen mine, Bisbee district: **4:4–5p**; malachite after, some replaced by chrysocolla **12:308**; tabular, botryoidal **12:293d**

- Czar shaft, Bisbee district: blocky, 5 cm, fans on malachite **12:284p**; malachite after **12:308**; multi-ton masses, rosettes to 18 cm in clay **12:293–294p**; rose, 2.5 cm **12:290p**

- Grand Reef mine, Graham County (crystals to 5 cm) **11:225**

- Grandview mine, Coconino County (euhedral, some altering to malachite) **2:219**, **2:221q**  
 Holbrook shaft, Bisbee district (reniform, pisolitic, fossil replacements, crystals to 6 cm) **12:294**

- Inspiration mine, Gila County (chrysocolla after, to 3 cm) **4:5**

- Irish Mag shaft, Bisbee district (sharp 2 cm crystals) **12:294**

- Junction shaft, Bisbee district (velvet) **12:280p**, **12:294**

- Lavender pit, Bisbee district (pisolitic on malachite boxwork; rosettes and singles to 2 cm) **12:294**

- Live Oak mine, Gila County (malachite after) **14:(327p)**

- Magma mine **14:(82)**

- Mammoth mine, Pinal County (crystals to 4 cm; malachite after to 8 cm) **11:162p**, **11:165d**, **11:166p**

- Metcalf and Morenci mines, Greenlee County (crystals to 2 cm; some malachite after) **22:66–67**

- Morenci mine, Greenlee County: stalactites **17:341n**; with malachite **19:331n**

- New Cornelia mine, Pima County: crystals altering to malachite **14:286p**, **14:331p**; malachite after blocky **14:290p**, **14:294**; sharp crystals to 4 cm, some malachite after **7:131**, **7:132–133p**

- Ray mine: chrysocolla prob. after, to 7.5 cm **11:248–250p**; thin seams, in fossil log **14:318**

- Sacramento shaft, Bisbee district: crystals to 18 cm altering to malachite **12:294**; malachite after **12:308**; poss. locality **12:300p**; prob. locality, on malachite **12:284p**; thin overgrowth on malachite after **12:281p**

- Shattuck shaft, Bisbee district (crystalline reniform) **12:294**

- Silver Bill mine, Cochise County (malachite after) **14:128p**, **14:130**

- Silver Hill mine, Pima County: **19:311–312n**; micro silky **11:261n**

- Tonopah-Belmont mine, Maricopa County (malachite after) **19:142**

### California

- Defiance mine, Inyo County **15:13n**  
 Jensen quarry, Riverside County (coatings) **15:287n**

- Kalkar quarry, Santa Cruz County (malachite on) **17:322**

- Zinc Hill mine, Inyo County (micro crystals; malachite after some) **6:111**

### Colorado

- Bandora mine, San Juan County **19:245**

- Mineral Farm mine, Ouray County **19:(99)**

- San Juan Mountains **10:358n**

- Senorita mine, Ouray County **19:96**

- Sherman tunnel, Leadville district **16:(191)**

- Star mine, Italian Mountain area, Gunnison County **15:86n**

### Nevada

- Killie mine, Elko County **18:416**

- Majuba Hill mine (micro crystals) **16:63**

- Northumberland mine, Nye County (fracture coating) **16:40**

### New Jersey

- Bound Brook, Somerset County **9:30n**

### New Mexico

- Hanover-Fiero and Mimbres districts, Grant County (morphology of rosettes) **22:68**

- Hansonburg district, Socorro County **20:41**

- Harding mine (stains) **8:124n**

- Juanita mine, Socorro County **20:18**

- Kelly mine, Socorro County **20:18**, **20:19p**

- Lordsburg district, Hidalgo County **20:57n**

- Magdalena district, Socorro County **20:18**

- Rose mine, Grant County (copper after) **25:198–202p,q**

### Oklahoma

- Paoli (southeast of), Garvin County (coatings) **17:373**

### Pennsylvania

- French Creek mine (coatings) **25:112n**

- Phoenixville **20:378**

### Utah

- Apex mine, St. George, Washington County: **18:(361)**; crusts after gypsum **4:5**

- Blue Grotto prospect, San Juan County (balls, groups to 8 cm) **12:387p**

- Blue Jay mine, San Juan County **18:(361)**

- La Sal, San Juan County **15:177**

- Nevada lode, San Juan County: **21:484n**; spherical groups **21:256**, **21:258p**

### Zambia

- Chingola mine (balls to 20 cm; crystals to 5 cm) **4:246–247**



## GENERAL INDEX

- Greece**  
Laurium area **7**:123  
Locality not specified (2 cm tabular, red hematite edges) **9**:134n  
Seriphos, Kykladhes **22**:304
- Italy**  
Lombardy  
  Baveno area (seam fillings) **14**:161  
Sardinia  
  Barega mine **15**:372n  
  Locality not specified (bladed blue) **8**:282n  
  Santa Lucia fluorite mine (colorless tabular) **15**:372n  
  Silius (prismatic yellow to 8 cm) **9**:192–193p  
Tuscany  
  Buca della Vena mine **17**:264n  
  Carrara region **18**:286  
  Castelnuovo and Allori mines, Upper Valdarno (micro crystals) **25**:298  
  Pereta mine **15**:20n
- Macedonia (formerly Yugoslavia)**  
Allchar (clear platy) **24**:440
- Mexico**  
Chihuahua  
  Naica (1 cm golden) **13**:52  
Durango  
  Ojuela mine (thin tabular golden) **21**:97s  
Guerrero  
  Taxco **17**:(341), **18**:155n  
Michoacan  
  Anganguo **17**:(341)  
Zacatecas  
  Locality not specified (sharp, zoned black and white) **13**:52
- Morocco**  
Fez region (colorless tabular) **21**:490n  
M'hrit, Middle Atlas Mountains (tabular to 20 cm, some scepters) **23**:435n  
Mibladen: **11**:316; bladed **7**:242, **7**:245p
- Namibia**  
Brokoros Mountains (pale yellow) **18**:367n  
Keetmanshoop (opaque yellow to 10 cm) **21**:490n  
Rosh Pina (Rosh Pinah) mine: **20**:397; 20 cm cockscombs, yellow **22**:391n  
Tsumeb (crystals to 5 cm) **8**:T19, **8**:T70p
- New Zealand**  
Tui mine (tabular rhombic to 3 cm) **6**:27p
- Norway**  
Bamble, Telemark (yellow to 15 cm) **22**:51p, **22**:52n  
Kongsberg **17**:(35)  
Styggedalsynken, Herre, Bamble, Telemark **20**:397
- Peru**  
Herminia mine, Julcani district (25 cm blades) **5**:219p
- Poland**  
Machow mine, Tarnobrzeg: **16**:152p, **20**:72n, **20**:(398); golden prismatic **14**:174p, **14**:176n; golden prismatic, tabular, stalactitic **23**:30p, **23**:32  
Stanislawow **18**:161n, **20**:485p, **22**:459n
- Romania**  
Baia Sprie area **19**:(338)  
Cavnic (Kapnic): **20**:72n; groups to 15 cm **22**:217n; thin tabular **10**:122
- Scotland**  
Dumfries and Galloway  
  New Glencrieff mine, Wanlockhead: white, yellow tips, platy **12**:249p; witherite after **12**:239n
- South Africa**  
Cape Province  
  Black Rock mine **9**:150n  
  Jan Coetzee mine (prismatic to 1 cm) **24**:39–40p  
Kalahari manganese field **22**:282  
N'Chwaning I & II mines: **23**:(436); tabular to 10 cm **22**:282p  
Wessels mine (prismatic to 16 cm) **22**:282  
Transvaal  
  Messina district (1 cm tabular) **22**:193, **22**:196p
- Spain**  
Arlós-Villabona district, Asturias region (white, blue, yellow tabular) **23**:73  
Caravia-Berbes district, Asturias region (white “books”) **23**:73, **23**:74p  
El Sabinar, Portman, Murcia (bladed yellow to 5 cm) **25**:222n  
Hiendelaencina district, Guadalajara (tabular colorless, yellow) **23**:244c  
La Unión, Cartegena, Murcia: various habits **24**:237n; white tabular **18**:301n  
Moscona mine, Solís, Asturias region: **23**:75p; crystals to 10 cm **24**:234; white to blue tabular **18**:301n  
Rio Tinto mine, Huelva (tabular micro) **22**:63–64p  
Troya mine, Mutiloa, Guipuzcoa (colorless) **23**:272  
Villabona mine, Solís, Asturias region (blue tabular) **23**:436n
- Switzerland**  
Lengenbach quarry (micro) **8**:280p
- Thailand**  
Phrae (near), Phrae province (on “turgite”) **18**:368n
- United States**  
Alabama  
  Erin, Clay County (micro crystals) **9**:390  
  Indian Mountain, Cherokee County **20**:358  
Arizona  
  Blue Ball mine, Gila County **20**:449  
  Fat Jack mine, Yavapai County (5 mm blades) **22**:25n  
  Grandview mine, Coconino County (massive) **2**:218  
  Higgins mine, Bisbee district (bladed, to 10 cm) **12**:294  
  Lavender pit, Bisbee district (amber bladed) **12**:294  
  Magma mine, Pinal County: 33 mm golden brown crystal **14**:(326p); yellow, black rhombic to 2 cm **14**:73p, **14**:81–82p  
  Mammoth mine, Pinal County **11**:159–160  
  New Cornelia mine, Pima County (small prisms, plates) **14**:294  
  Ray mine, Pinal County (pink rosettes to 5 mm) **14**:320  
  Rowley mine, Maricopa County: **17**:404n; white bladed to 2 cm **5**:14, **5**:19p  
  Tonopah-Belmont mine, Maricopa County **19**:142  
  Weldon mine, Pima County (pink bladed bundles to 25 cm) **12**:118p  
California  
  Cargo Muchaco Mountains, Imperial County (euhedral pink strontian) **2**:225  
  Champion mine, Mono County (micro) **18**:137p  
  Hale Creek mine, Trinity County (pale pink) **18**:347  
  Kalkar quarry, Santa Cruz County **17**:322n  
  Lead Mountain, San Bernardino County **8**:(432)  
  Monitor-Mogul district, Alpine County (3 localities) **22**:36  
  Silver Reid mine, Inyo County (massive) **15**:13n  
  Yellow Jacket mine, Stayton Mining district **20**:432  
Colorado  
  Alice Glory Hole, Clear Creek County **18**:186  
  Aztec mine, Rico district, Dolores County (white rosettes to 2.5 cm) **16**:215  
  Bandora mine, San Juan County **19**:246  
  Black and Blue prospect, Park County (smoky, to 20 cm; black hematite crystals in) **24**:382n  
  Black Cloud shaft, Lake County: **19**:113n; golden, greenish over 3 cm **16**:191n; orange **25**:60n  
  Blaine tunnel, Rico district, Dolores County (quartz casts after) **16**:213n  
  Book Cliffs, Mesa County (colorless crystals) **10**:332  
  Bulldog mine, Mineral County (tabular to 15 cm) **7**:294p, **7**:297  
  Crystal Peak area, Park/Teller counties (white to gray blades) **16**:227n  
  Eagle mine, Gilman, Eagle County: golden **10**:330; golden tabular to 5 cm **7**:285–286p  
  El Paso, Las Animas, and Otero counties **19**:215n, **19**:216p  
  Enterprise mine, Rico district, Dolores County (quartz after) **16**:215n  
  Grand Junction area, Mesa County: clear prismatic **7**:169p,c; glassy clear prismatic **5**:77p, **5**:78  
  Hartsell, Park County: blue **10**:332; blue tabular to 13 cm **11**:23–25p,c,q  
  Home Sweet Home mine (see Sweet Home mine)  
  Indiana and Topeka-Kentucky Giant veins, Ouray County (grey tabular) **25**:373–374p  
  Irene mine, Lake County **20**:(388)  
  Italian Mountain area, Gunnison County (tabular golden, white bladed) **15**:81p  
  Midnight mine, Pitkin County (white roses) **7**:291n  
  Mineral Farm mine, Ouray County **19**:99p  
  Muddy Creek, San Juan Mountains (colorless to grey, tabular to 5 cm) **12**:79–80p,d,c  
  National Belle mine, Ouray County: **19**:99; white micro **17**:233n, **17**:234p  
  O.S. prospect, Ouray County (quartz after) **24**:382n  
  Park County (locality not specified) (colorless; pegmatite occurrence) **3**:180p  
  Pikes Peak batholith (micro crystals; after 6 cm microcline) **10**:376p  
  Rico Argentine mine, Rico district, Dolores County (white to golden clusters) **16**:216n  
  San Juan Mountains **10**:358n  
  Senorita mine, Ouray County **19**:96–98p  
  Sherman Tunnel, Lake County: golden **16**:191n; golden to 10 cm **10**:330p  
  Stoneham (near), Weld County: **21**:97; blue tabular **17**:255–258p,c,d  
  Sweet Home mine, Park County (bladed) **10**:334  
  Wagon Wheel Gap mine, Mineral County (various habits to 4 cm) **24**:25–26c,p  
  White Raven mine, Boulder County (white tabular) **7**:279
- Georgia  
  Graves Mountain (colorless) **16**:447  
  Indian Mountain, Polk County **20**:358  
  Paga mine, Bartow County (sharp, clear, various habits, phantoms) **22**:61–62p
- Idaho  
  Borah Peak, Custer County (yellow tabular) **21**:483n
- Illinois  
  Annabel Lee mine, Hardin County **17**:147

## GENERAL INDEX

- Denton mine, Hardin County (yellow, blue 5 cm rhombic) **14:55**
- Gaskin mine, Pope County (yellow tabular to 10 cm; some photosensitive) **6:235–236p**
- Indiana
- Bedford (near), Monroe County (bladed to 7 mm) **22:351c**
- Bethel Church fossil dig, Pike County (tiny micro crystals) **15:355p**
- Hoosier Stone and Concrete Corp. quarry, Washington County (3 mm white) **14:9**
- Iowa
- Linwood mine, Scott County (tabular, prismatic, plumose) **23:233c, 23:234p,d**
- Pint's quarry, Black Hawk County **20:474–475, 20:476p**
- Maryland
- Frostburg, Allegany County (complex micro) **22:61, 22:62p**
- Massachusetts
- Loudville mine, Hampshire County: **6:298n; blue-green, micro 13:45p, 13:46**
- Michigan
- Keweenaw Peninsula (numerous localities) (colorless to grey tabular) **23:M52–53**
- White Pine mine, Ontonagon County: **14:226; 6 cm grey square 23:M53p**
- Missouri
- Merrimack River (quartz after) **15:146c**
- Nevada
- Dean mine, Battle Mountain, Lander County **20:390**
- Northumberland mine, Nye County (golden prismatic to 12 cm) **16:39–40p**
- New Jersey
- Paterson area, Passaic County (crystals to 15 cm) **9:175**
- New Mexico
- Hansonburg district, Socorro County **20:35**
- Juanita mine, Socorro County **20:18**
- Kelly mine, Socorro County **20:18**
- Lordsburg district, Hidalgo County **20:(57)**
- Magdalena district, Socorro County **20:18**
- Point of Rocks quarry, Colfax County (tiny, impaled on acmite) **15:151**
- Poison Canyon, McKinley County **20:63n**
- Red Cloud mines, Lincoln County **11:69**
- New York
- Sterling mine, Jefferson County (unconfirmed) **15:203**
- Oklahoma
- Paoli (southeast of), Garvin County (crystal-line nodules, layers) **17:373**
- Pennsylvania
- Phoenixville, Chester County **20:378p**
- Wheatley mine, Chester County **20:378**
- South Dakota
- Elk Creek, Meade County: **18:161n, 22:61, 22:62p; tapered prismatic golden 18:125–130p,c,d,q**
- Hoover area, Butte County **18:127–129p,c,q**
- Meade County **19:(116)**
- Tennessee
- Elmwood mine, Smith County: **20:(391); spheres to 35 cm 9:215p**
- Texas
- Terlingua district, Brewster County (nodular) **21:227n**
- Utah
- Buckhorn Canyon, Tooele County (bladed white) **24:48**
- Gold Hill mine, Tooele County (massive; 2 mm crystals) **24:20**
- Washington
- Metaline Falls, Pend Oreille County (tabular micro, acicular pyrite in) **22:64p**
- Spruce claim, King County (white tabular) **21:485n**
- Spruce Peak deposit, King County (tabular rhombic) **9:357–358p**
- Wisconsin
- Montreal mine, Iron County (5 cm blue rhombic) **11:59n**
- Rib Mountain, Marathon County (anhedral; pegmatite occurrence) **12:97**
- Wyoming
- Shirley Basin, Carbon County (tabular blue) **21:485n**
- Zaire**
- Mashamba West mine: malachite after **24:394n; yellow prismatic, some malachite and chrysocolla after 22:16**
- 
- BARIUM-PHARMACOSIDERITE**
- Australia**
- Victoria
- Robinson's Reef, Port Phillip **16:123q**
- England**
- Cornwall **16:123q**
- Germany**
- Baden-Württemberg
- Clara mine, Oberwolfach **16:(122)**
- Bavaria
- Aschaffenberg **16:123q**
- Obersachsen
- Liebenschlehen mine, Neustaedtel-Schneeberg **16:123q**
- Württemberg
- Schramberg **16:(122)**
- United States**
- New Jersey
- Sterling Hill **16:123q,p**
- Utah
- Tintic district, Juab County **16:123q, 16:124p**
- 
- “**BARKEVIKITE**”
- See Ferrohornblende*
- 
- BARRERITE**
- Norway**
- Tosenvegen, Vefsn, Nordland **24:393n**
- 
- BARTELKEITE**
- Namibia**
- Tsumeb (euhedral micro) **13:139c, 13:140p**
- 
- BARYLITE**
- Eight world localities **3:125n, 3:230n**
- Canada**
- Québec
- Mt. St-Hilaire (micro bladed) **21:298p,d**
- United States**
- Colorado
- Crystal Peak area, Park/Teller counties (2.5 cm crystal) **16:227**
- Park County (locality not specified): **3:180; 4.5 cm crystal 3:125p, 3:132p**
- Pikes Peak region (1 cm crystal) **7:59**
- 
- BARYSILITE**
- United States**
- Nevada
- Belmont, Nye County (new species belmontite poss. id as) **16:44h**
- New Jersey
- Franklin mine (micron-size) **22:273–274c,p**
- Parker Shaft, Franklin **19:274n**
- 
- “**BARYTOANGLESITE**”
- Mixture of anglesite, barite*
- Austria**
- Bleiberg district **17:360**
- 
- BARYTOCALCITE**
- England**
- Cumbria
- Blagill mine, Alston **20:395**
- Lunehead mine, Lunedale **23:434n**
- Nentsberry Haggis mine, Nenthead **25:44n**
- 
- BARYTOLAMPROPHYLLITE**
- Canada**
- Québec
- Mt. St-Hilaire: **19:364n; bladed, fibrous 21:316**
- Greenland**
- Gardiner complex: **16:492n; crystalline aggregates 24:G56n**
- 
- BASALUMINITE**
- Bolivia**
- El Dragón mine, Potosí (micro crystals) **21:141**
- United States**
- Arizona
- Lavender pit, Bisbee district **12:294**
- Southwest mine, Bisbee district **12:294**
- Arkansas
- Rayburn barite mine, Hot Spring County **16:(151)**
- Maryland
- Fort Foote (near), Prince Georges County (masses) **1:127–128q**
- 
- BASSETITE**
- Italy**
- Sardinia
- Arcu su Linnarbu, near Capoterra, Cagliari **18:181–183c,q,p**
- 
- BASTNÄSITE-(Ce), -(La), -(Y)**
- Five Alpine localities **8:288, 8:289p**
- Canada**
- Québec
- Mt. St-Hilaire: **10:104; and ancylite after parasite 2:141; bastnäsite-(Ce), micro and pseudomorphs after unknown 21:298; micro 13:244n**
- France**
- Tremorius mine, Ariège: 15 mm prismatic **25:215n; 10 mm tabular 22:225**
- Trimouns quarry, Ariège: bastnäsite-(Ce), 1 cm crystals **23:84n; micro 25:209p; 2.5 cm tabular 21:489n**
- Italy**
- Lombardy
- Baveno area (uncertain id; “weibyite” probably is bastnäsite) **14:162**
- Malawi**
- Mt. Malosa region (bastnäsite-(Ce) to 1 cm) **25:31**
- Norway**
- Gjerdingen, Nordmarka region (after pyrochlore and zircon) **11:88p**
- United States**
- California
- Birthday Claim Mountain Pass, San Bernardino County **14:239, 14:240q**
- Colorado
- Pikes Peak batholith **10:377p**
- Saint Peter's Dome area, El Paso County (2.5 cm crystal) **16:227**
- Idaho
- Sawtooth batholith (micro crystals) **24:192**
- Michigan
- Nonesuch formation, Keweenaw Peninsula (traces) **23:M53n**
- New Hampshire
- Carroll County **20:391**
- New Mexico
- Red Cloud mines, Lincoln County: **20:61n; crystals to 1 cm 11:69, 11:71p**



GENERAL INDEX

New York  
 Mineville, Essex County **14:239n**  
 Trout Brook Valley, Essex/Warren counties  
 (7 mm crystals) **14:239–240p,c,q**  
 Texas  
 Clear Creek pegmatite, Burnet County (coat-  
 ings) **8:90**  
 Washington  
 Washington Pass (bastnäsite-(Y)) **23:428n**

BAUMHAUERITE

Canada

Ontario  
 Madoc (near) (antimony-rich) **13:98–99q**  
 Taylor farm, near Madoc **13:(80)**

Peru

La Libertad mine, Quiruvilca: **18:199–201p,q**;  
 baumhauerite-like unknown **17:341n**; id as  
 baumhauerite-2a **21:499**

Switzerland

Lengenbach quarry **8:279p**

BAVENITE

Locality not specified **1:71h**

Brazil

Minas Gerais  
 Taveres quarry, near Linópolis (1 mm blades,  
 id as bertrandite) **22:387n**

Canada

Québec  
 Mt. St-Hilaire: **19:364n**; micro tabular book-  
 like **21:298p**

Italy

Lombardy  
 Baveno area (2 cm groups) **14:162p,d**

Norway

Tjørdal, Telemark **23:436n**

United States

California  
 Himalaya dike system, San Diego County  
 (fibrous, earthy; after beryl) **8:472**  
 Connecticut  
 Hewitt quarry, Middlesex County (tabular to  
 4 mm) **1:70–71d,c,q**  
 New Hampshire  
 Government pit, Carroll County (2 mm group)  
**14:48p**  
 North Carolina  
 Foote mine **1:92n**  
 Wisconsin  
 Rib Mountain, Marathon County (acicular)  
**12:96**

BAYLDONITE

Australia

New South Wales  
 Kintore opencut, Broken Hill **19:428–429q**  
 Western Australia  
 Ashburton Downs (masses) **24:207**

England

Cornwall  
 Penberthy Croft mine, St. Hilary: **25:(44)**; 1  
 mm crystals **23:434n**

Namibia

Tsumeb (crystals to 1 cm; some after mimetite)  
**8:T19–20, 8:T49, 8:T78p**

Norway

Tjørdal, Telemark **23:436n**

United States

Nevada  
 Killie mine, Elko County **18:416–417p,q**,  
**18:420**  
 Utah  
 Gold Hill mine (minute crystals) **24:20**

BAYLEYITE

United States

Arizona  
 Cole shaft, Bisbee district **12:294**

BAZZITE

Italy

Lombardy  
 Baveno area (2 mm prisms) **14:162**

Kazakhstan (formerly USSR)

Kent (3 mm crystals) **21:492n**

Norway

Tjørdal, Telemark (blue to 2 cm) **23:436n**

United States

Colorado  
 Mt. Antero, Chaffee County (on bertrandite)  
**18:360n**

BEAVERITE

Australia

Western Australia  
 Ashburton Downs (minute crystals) **24:209**

Chile

Mina Herminia, Sierra Gorda (minute crystals  
 intergrown with osarizawaite) **11:102–103p,c,q**

Namibia

Tsumeb (crusts) **8:T20n**

Spain

Sierra de Prades, Tarragona **25:(222)**

United States

Arizona  
 Cochise County, Bisbee district (unconfirmed)  
**12:(315)**  
 Mammoth mine, Pinal County (powdery)  
**11:172**  
 New Mexico  
 Hansonburg district, Socorro County (id as  
 corkite) **20:40–41q**

BECQUERELITE

Canada

Northwest Territories  
 Port Radium **20:(207)**

England

Cornwall  
 Peeth lode, Geevor (efflorescences) **25:44n**

France

Rabéjac quarry, Lodéve, Hérault (minute crys-  
 tals) **23:433n**

United States

Utah  
 Happy Jack mine, White Canyon (crystals)  
**2:210n**

Zaire

Kasolo **2:210–211p**  
 Musonoi mine **9:33**  
 Shinkolobwe mine **9:33, 20:277p,d** and cover  
 photo

BEHOITE

Canada

Québec  
 Mt. St-Hilaire **10:103, 19:325–326n,p**  
 Poudrette quarry: 1 cm spheres **22:386n**;  
 spheres, prismatic to 7 mm **21:299, 21:300p**

United States

Texas  
 Clear Creek pegmatite, Burnet County (coat-  
 ings) **8:90n**  
 Rode Ranch pegmatite, Llano County (color-  
 less octahedral to 1 mm) **1:30q,h**  
 Utah  
 Honeycomb Hill, Juab County **1:(30)**

BEIDELLITE

South Africa

Transvaal  
 Messina district (unconfirmed) **22:197**

United States

Arizona  
 New Cornelia mine, Pima County (replacing  
 plagioclase) **14:294**  
 Colorado  
 Sneffels district, Ouray County **10:358n**

BELGIAN CONGO

*See Zaire*

BELGIUM

Rhisnes **20:299s**  
 Sahn Chateau **11:29s**  
 Salm **9:113s**

BELKOVITE

Russia (formerly USSR)  
 Kola Peninsula **24:(389)**

BELLINGERITE

Chile

Chuquicamata **8:(517), 9:324–325h,d,c**

“BELMONTITE”

*See also Barysilite*

United States

Nevada  
 Belmont, Nye County **16:44h**

BEMENTITE

South Africa

Cape Province  
 Gloria mine (massive) **22:282**  
 Wessels mine (massive) **22:282**

Sweden

Harstigen mine **22:(49)**

United States

California  
 Hale Creek mine, Trinity County **18:346**

BENITOITE

United States

California  
 Benitoite (Dallas) Gem mine, San Benito  
 County: **20:235p, 20:236, 20:387, 25:211**;  
 crystals to 5.4 cm **8:442–452h,p,d,c**;  
 opaque to 7.5 cm **23:208**  
 Mina Numero Uno, San Benito County (pink  
 micro) **8:447**

BENJAMINITE

United States

Colorado  
 Alice Glory Hole, Clear Creek County (ten-  
 tative id) **18:(186)**  
 Nevada  
 Outlaw mine, Nye County: **16:44h**; other  
 world localities mentioned **22:174–177h**,  
**22:177–178**

BENSTONITE

United States

Arkansas  
 Magnet Cove, Hot Spring County (masses;  
 fl. red) **1:140h**  
 Illinois  
 Minerva mine, Hardin County (low rhombo-  
 hedral; resembles calcite) **1:140–141p,q,h**

BERAUNITE

In pegmatite environments **4:114**  
 Numerous world occurrences **4:118**

Brazil

Minas Gerais  
 Conselheiro Pena (acicular; “cacoxenite” id  
 as) **24:385n**  
 Córrego Frio mine, near Linópolis **14:232**

England

Cornwall  
 Gravel Hill quarry, Perranporth (“eleonorite”)  
**19:337n**

- Spain**  
Horcajo mines, Ciudad Real (radial) **25:22p, 25:25**
- Sweden**  
Leveäniemi iron mine, Norrbotten **20:345p, 20:346**
- United States**  
Alabama  
Indian Mountain, Cherokee County: **20:358p**; massive; prismatic to 1 cm **5:243**  
Jacksonville (near), Calhoun County **9:390**  
Rock Run station, Cherokee County **9:388n**  
Arkansas  
Mena, Polk County **16:150**  
Georgia  
Indian Mountain, Polk County: **20:358p**; see also Beraunite—Alabama—Indian Mountain  
Indiana  
Bethel Church fossil dig, Pike County **15:353p**  
New Jersey  
Mullica Hill, Gloucester County (orange tufts) **11:309**  
Pennsylvania  
Bachman mine, Northumberland County **11:311p**  
Moore's Hill, Cumberland County **11:311**  
South Dakota  
Tip Top mine, Custer County **17:240, 17:251**
- BERBORITE**  
**Norway**  
Oslofjord/Langesundsfjord region (to 1 cm) **22:52n**
- BERMANITE**  
In pegmatite environments **4:116**  
Numerous world occurrences **4:116, 4:119**  
**Australia**  
South Australia  
McMahon pegmatite **12:107s**
- Brazil**  
Minas Gerais  
Conselheiro Pena (crystals to 1 mm) **24:385**  
Linópolis **23:(432)**
- United States**  
Alabama  
Williams pegmatites, Coosa County (minute flakes) **6:71–72**  
Arizona  
7 U ranch, Yavapai County **15:305**  
South Dakota  
Tip Top mine **17:240q, 17:251**
- BERNARDITE**  
**Macedonia (formerly Yugoslavia)**  
Allchar (crystals to 4 mm) **24:440–441p,c**
- BERRYITE**  
**United States**  
Colorado  
Mike mine, San Juan County **8:(517)**  
Nevada  
Outlaw mine, Nye County **22:178n**
- BERTHIERINE**  
**Canada**  
Québec  
Mt. St-Hilaire (euhedral prismatic pseudo-morphs poss. after mica) **21:299, 21:300p**
- BERTHIERITE**  
**Czech Republic (formerly Czechoslovakia)**  
Bohutín district, Příbram ore field **12:162n**
- Italy**  
Tuscany  
Niccioleta mine **10:291n**
- Romania**  
Cavnic (in white calcite) **23:436n**  
Herja (formerly Kisbánya): **13:(374), 23:268n**; acicular to 15 cm **25:215**
- United States**  
Colorado  
Good Hope mine, Gunnison County (needles; id as oswyheelite) **14:246**
- BERTOSSAITE**  
**Rwanda**  
Buranga pegmatite (massive) **4:126**
- BERTRANDITE**  
**Australia**  
Queensland  
Mica Creek area, Mt. Isa-Cloncurry district **19:(475)**
- Austria**  
Kaiserer and Lohninger quarries, south of Rauris, Salzburg **13:(173)**  
Schafkar, near Kolm Saigurn, Salzburg **13:(173)**
- Brazil**  
Minas Gerais  
Conselheiro Pena (tabular to 5 cm) **24:384n, 24:387p**  
Golconda mine, near Governador Valadares: **18:(148)**; glassy tabular to 5 cm **24:222**  
Taveres quarry, near Linópolis (“bavenite” id as) **22:387n**
- France**  
Carrière Quilly, La Villeder, Morbihan (1 cm crystals) **23:434n**
- Kazakhstan (formerly USSR)**  
Karschatau **25:47n**  
Kara-Oba **23:433n**  
Kounrad: after fluorite **25:139p, 25:140n**; white 2 cm fan **23:437**
- Norway**  
Oslo region (V-twin) **3:9p**
- United States**  
Colorado  
Crystal Peak area, Park/Teller Counties (2.5 cm blocky crystal) **16:222p, 16:227**  
Lake George, Pikes Peak batholith **10:377**  
Mt. Antero, Chaffee County: **10:340–346p**; bazzite on **18:360n**
- Connecticut  
Bierman quarry, Bethel, Fairfield County (twinned) **14:364–366p**  
Eighteen localities (numerous habits, colors; twins, trillings) **6:114–123p,c,d**  
Strickland quarry, Middlesex County: **17:269, 17:270p**; twinned **14:364**
- Idaho  
Centerville (near), Boise County (crystals on unaltered beryl) **16:152p**  
Sawtooth batholith: **17:(342)**; tabular to 3 mm **24:192p,c**
- Maine  
Emmons quarry, Oxford County (micro) **25:377n**  
Mt. Mica, Oxford County **16:372n**
- New Hampshire  
Government pit, Carroll County (1 mm euhedral) **14:48p**
- New Mexico  
Harding mine: **20:64n**; crusts **8:123**
- Utah  
Spor Mountain, Thomas Range **10:269**
- Wisconsin  
Rib Mountain, Marathon County (crystals to 8 mm) **12:96**
- BERYL**  
Crystals shattering under hot display lights **10:33**  
Emerald (6 world localities mentioned) **11:317n**  
Fake matrix emerald specimens **18:252**
- In rhyolite (3 world localities) **10:269n**  
Survey of characteristics and sources **7:211–223p,q,c**  
Toxicity **11:9**
- Afghanistan**  
Kunar (near), Kunar province (sharp, glassy aquamarine to 3.2 cm) **11:315p**  
Laghman province: “morganite” with aquamarine cores, to 12 cm **22:386n**; 3 localities; mostly pink **9:307, 9:308p**  
Locality not specified: “morganite” **20:397**; yellow **13:41n**  
Pandjshir (emerald) **25:138p, 25:140**
- Australia**  
Queensland  
Mica Creek area **19:475**  
Western Australia  
Tabba Tabba (white tabular) **23:432n**
- Austria**  
Felbertal mine, Salzburg (aquamarine) **17:106n**  
Habachtal, Salzburg (emerald) **20:483**  
Leckbachrinne, Habachtal, Salzburg (emerald) **17:105–106**  
*Smaragd; Grines Feuer unterm Eis* **23:504b**  
Untersulzbachtal, Salzburg (aquamarine) **17:106n**
- Brazil**  
Bahia  
Açude Socêgo, Anagé township (emerald) **8:384q**  
Jaquetô (near), Medeiros Netos County: aquamarine **20:394**; aquamarine, etched **22:215p, 22:216, 22:387**  
Pedra Preta mine (aquamarine) **7:129p**  
Pirajá deposit, Brumado district (emerald to 12.3 cm) **9:198–199, 9:202p, 9:204**  
Pombo farm, Anagé township (emerald) **8:384**  
Socotó deposit (emerald) **16:108n**
- Espírito Santo  
Mimoso do Sul: **23:432c**; aquamarine, odd tapered habit **23:276**
- Goiás  
Santa Terra (emerald, 49.6 ct faceted) **18:433n**
- Minas Gerais  
Boca Rica (aquamarine, odd fibrous termination) **23:496–497p**  
Cajiu mine, Almenara area (aquamarine) **19:335n**  
Coronel Murta (near) (bright orange) **17:406n**  
Córrego do Urucum pegmatite: aquamarine, morganite **17:309–310p,c**; “morganite,” tabular to 20 cm **7:221**  
Fernandes quarry, Mimoso do Sul (aquamarine, “glass cigars”) **22:387n**  
Four localities **2:10n**  
Galiléia (near) (opaque crystals to 1 m) **9:41**  
Jove Lauriano mine, near Linópolis (“morganite”) **14:(235)**  
Lavra da Invreja, Marambainha (aquamarine) **17:149p–150**  
Linópolis area (aquamarine, steeply doubly terminated, gemmy) **10:179**  
Locality not specified (7.5 cm etched crystal) **14:(371p)**  
Marambaia mine (110 kg crystal, very gemmy aquamarine) **7:215–216**  
Mina Chia, near Linópolis (etched fragments, pale green) **22:217**  
Padre Piedaade (aquamarine, pointed terminations) **22:387n**  
Pamaró mine, near Linópolis **14:(235)**  
Pica Pau deposit (aquamarine) **16:109n**  
Resplendor: **20:394**; colorless “goshenite,” thin tabular **24:395n**; tabular **20:69p**  
Salinas (zoned pink and blue) **19:335n**  
Serra do Urucum mine, Galiléia **2:10n**

- Telfrio mine, near Linópolis **14**:(234)  
Tres Barras (aquamarine, 1 m gemmy crystal) **7**:216p, **7**:220p  
Virgem da Lapa mine: **13**:27; aquamarine, tabular **18**:365n; "matrix specimens" created in Germany **14**:61
- Paraíba  
Alto Benedito pegmatite (large crude crystals) **22**:184n
- Canada**  
Manitoba  
Bernic Lake mine (colorless to 15 cm) **7**:221–222q  
Ontario  
Canadian Beryllium Mines and Alloys Ltd. properties, Renfrew County (crystals to 20 cm) **13**:84  
McCoy beryl mine, near Quadeville **10**:155  
Quadeville beryl-lyndochite quarry, Renfrew County (some aquamarine) **13**:200p  
Québec  
Mt. St-Hilaire (yellow micro prismatic) **21**:299
- China**  
Altay region, Xinjiang autonomous region: aquamarine **18**:(326); 10 cm green **25**:46, **25**:48p  
Hunan province (locality not specified): aquamarine, pale to 4 cm **24**:224p, **24**:226; colorless tabular to 4 cm **25**:138p, **25**:140n; "morganite," 9 cm tabular **21**:489n
- Colombia**  
"Angel of the Andes" crystal, 10 cm **24**:49n  
Coscuez mine, Boyacá **24**:49n  
*Emerald Mining in Colombia: History and Geology* **1**:142–149  
Muzo mine: emerald **20**:392p, **20**:394; emerald, 1.5 cm crystal **15**:145p, **15**:146m; emerald, with calcite crystals **18**:408n
- Czech Republic (formerly Czechoslovakia)**  
Maržikov **19**:10s
- Finland**  
Luumäki, Kymi (gemmy, over 2000 ct) **23**:433n
- Greenland**  
Ivisártoq peninsula, Godthåbsfjord area (15 cm greenish) **24**:14–15
- India**  
Hyderabad area, Andhra Pradesh (gemmy yellow-green and aquamarine) **21**:489n
- Italy**  
Lombardy  
Baveno area (aquamarine) **14**:162  
Tuscany  
Buca della Vena mine (aquamarine, emerald) **17**:264–265p  
San Piero in Campo area, Elba: aquamarine, "goshenite," "morganite" **16**:356–358p,d; lepidolite oriented on **16**:357n
- Madagascar**  
Anjanabonoina (Cs-bearing) **20**:195–196d  
Locality not specified (7.5 cm aquamarine) **11**:29
- Mexico**  
San Luis Potosí  
Locality not specified (red, to 20 mm) **7**:222
- Namibia**  
Erongo Mountains (tourmaline in aquamarine) **19**:337n
- Nepal**  
Hyakule pegmatite **16**:417n
- Nigeria**  
Bauchi (emerald, to 15 cm) **23**:435n  
Jos: aquamarine **19**:120n; emerald, to 15 cm **23**:84  
Sabon Wana, Nanarawa Eggon, Plateau state (aquamarine) **16**:306n
- Northern Ireland**  
County Down  
Slieve Donard quarry (aquamarine) **13**:(44)
- Norway**  
Drammen area, Buskerud (aquamarine) **22**:51n
- Pakistan**  
Dusso (Dassu) area, Gilgit division: 27 cm gemmy, aquamarine **22**:53, **22**:55p; vars. aquamarine, goshenite, "inky" blue **16**:400–403p,d  
Gilgit-Skardu area, Gilgit division (spray of aquamarine) **15**:45p  
Haramosh Mountains, Gilgit division ("goshenite") **16**:403p  
Haramosh valley, Asad Kashmir province (aquamarine to 8.5 cm) **11**:321–322  
Kashmir (see Gilgit)  
Locality not specified: aquamarine; 9 kg crystal **25**:219n; emerald **18**:368n  
Nagir, Hunza: **20**:397; aquamarine **20**:236  
Skardu (near), Gilgit division (yellow to 15 cm) **24**:219, **24**:220p
- Russia (formerly USSR)**  
Alabashka, Ural Mountains (24 cm doubly terminated aquamarine) **24**:389n  
Maleshevo, Ural Mountains: emerald to 10 cm **25**:47n; in schist matrix **24**:226n  
Miask (emerald, 9 cm doubly terminated) **9**:367n  
Tokoyawa, Ural Mountains (golden) **11**:317n
- South Africa**  
Transvaal  
Gravelotte (emerald) **18**:193n
- Spain**  
Franqueira, Pontevedra: **24**:236n; emerald **25**:222n; emerald, to 5 cm **23**:272
- Ukraine (formerly USSR)**  
Volyn (Wolodarsk-Wolynsky, etc.): **18**:243p, **18**:244, **19**:117–118n,p, **19**:211n, **20**:74n; "heliodor"; aquamarine, prob. heat- or rad-treated **24**:389n
- United States**  
Alabama  
Williams pegmatites, Coosa County (crystals to 1.2 m) **6**:68  
California  
Clark mine, San Diego County (aquamarine) **8**:514  
Elizabeth R mine, San Diego County ("morganite") **8**:513  
Emeraldite mine, San Diego County (aquamarine) **8**:508  
Himalaya dike system, San Diego County: bavenite after **8**:472; etched **8**:512p, **8**:514; "morganite," to 13 cm **8**:471, **8**:473p  
Jensen quarry, Riverside County (aquamarine) **15**:287n  
Little Three pegmatites, San Diego County **20**:117p, **20**:119q,c, **20**:122q  
Mack mine, San Diego County (aquamarine) **8**:513–514p  
Pala Chief mine, San Diego County (morganite, aquamarine) **8**:512  
San Jacinto Mountains, Riverside County **18**:(148)  
San Pedro mine, San Diego County (vars. morganite, aquamarine) **8**:512  
Stewart mine, San Diego County: "morganite" **8**:508; "morganite" to 10 cm **21**:481n  
Tourmaline King mine, San Diego County ("morganite") **8**:510  
Tourmaline Queen mine, San Diego County ("morganite") **8**:508  
Vandenberg mine, San Diego County ("morganite") **8**:513  
White Queen mine, San Diego County: **20**:399; "morganite" **8**:512, **19**:(211)
- Colorado  
Mica Lode, Fremont County (blue-green to 2 m) **5**:188
- Mt. Antero, Chaffee County: aquamarine **20**:(388), **25**:147b; aquamarine, 7 cm crystal **10**:332, **10**:339p, **10**:340–346p,d
- Connecticut  
Case quarry, near Portland, Middlesex County **17**:342n  
Gillette quarry, Middlesex County (gemmy, various colors, some fl.) **23**:24d, **23**:26p  
Hewitt quarry, Middlesex County (altered to bavenite and bertrandite) **1**:71
- Georgia  
Booger Bottom (near), Meriwether County (gemmy aquamarine to 5 cm) **22**:382n
- Idaho  
Centerville (near), Boise County: aquamarine, gemmy to 8 cm **12**:181p, **12**:183; bertrandite crystals on **16**:152p  
Sawtooth batholith: **18**:147p; aquamarine **17**:342n; aquamarine, simple prismatic to 18 cm **24**:192–193p
- Maine  
Bennett quarry, Oxford County: goshenite **22**:382; "morganite," to 30 cm **21**:483; "Rose of Maine," 33 cm orange crystal **25**:179, **25**:181p  
Bowdoinham, Sagadahoc County **19**:(151)  
Havey quarry, Androscoggin County **16**:(375)  
Mt. Mica, Oxford County: aquamarine with "morganite" core **16**:372; bizarre morphology **16**:369–370d  
Pulsifer quarry, Androscoggin County **16**:(375)  
William Willes #1 quarry, Sagadahoc County (green to 30 cm) **24**:383n
- New Hampshire  
Bald Mountain Ridge, Carroll County (aquamarine, poss. partly replaced by albite) **23**:425  
Beryl Hill, Grafton County (5-ton crystal) **19**:369h  
Palermo mine (crystals to 2.5 m) **5**:275
- New Mexico  
Harding mine: **20**:(64); anhedral to 1.5 m; various habits to 6 cm **8**:122q  
Irish Rose vein, Luna County **20**:(57)  
Iron Mountain, Sierra County **20**:60  
Paramount Canyon bixbyite locality, Sierra County **20**:60
- North Carolina  
Adams property, Alexander County (emerald, to 12 cm) **2**:190  
Hiddenite, Alexander County (4.8 cm emerald) **25**:377n, **25**:378p
- Pennsylvania  
Avondale, Delaware County (aquamarine to 6 cm) **1**:38n
- Utah  
Holfert-Allred property, Juab County: **24**:47p, **24**:48n; red, tabular, to 9 mm **23**:428n  
Thomas Range (red) **10**:268p, **10**:269, **10**:272, **10**:275  
Topaz Mountain (red) **7**:222  
Violet Claims, Beaver County: red crystals to 2.5 cm **23**:438n; 2.1 cm doubly terminated gemmy red **25**:382p; 2.7 cm euhedral red **22**:53, **22**:54p  
Wah Wah Mountains: **10**:124, **10**:268p, **10**:269, **10**:275–276; red **18**:246n, **20**:391; red, to 4 cm **9**:36; red, to 30 mm **7**:219p, **7**:222
- Virginia  
Herb #2 mine, Powhatan County (5 ft. crystal) **14**:390n
- Wisconsin  
Rib Mountain, Marathon County (to 1.2 cm; some hollow, some gemmy aquamarine) **12**:93p, **12**:96

## GENERAL INDEX

- Zimbabwe**  
St. Anne's mine (emerald) **19**:122n
- BERYLLONITE**  
In pegmatite environments **4**:124
- Afghanistan**  
Paroc (Paprock, Pavrok, Paprok), Kunar, Laghman province: **22**:386n; large crystals **25**:58n; milky cogwheel groups **23**:499n; 10 cm doubly terminated **23**:432; to 12 cm **25**:61n
- Brazil**  
Minas Gerais  
Almerindo mine, Linópolis (tabular to 3 cm) **24**:384–385  
Énio pegmatite, near Galiléia (surrounding beryl crystals) **12**:70p
- Canada**  
Québec  
Mt. St-Hilaire (minute spheres) **21**:299  
Poudrette quarry **20**:393
- Finland**  
Viitaniemi, near Eräjärvi **4**:120
- Pakistan**  
Locality not specified (equant crystals to 4 cm) **22**:216
- United States**  
Maine  
BB #7 quarry, Androscoggin County (botryoidal; poss. hydroxyl-herderite) **16**:375  
Bell Pit, Oxford County (cogwheel crystal) **22**:382  
Dunton mine (crystals) **16**:382  
Harvard quarry, Oxford County (fibrous) **22**:382  
McAllister farm **4**:120  
Mills feldspar quarry, Oxford County **4**:124  
Nevel mine, Oxford County **4**:124  
Newry area (crystal masses to 8 cm) **6**:199
- BERZELIANITE**  
**Australia**  
Western Australia  
Kalgoorlie **18**:28  
**Bolivia**  
El Dragón mine, Potosí (micro inclusions) **21**:137n  
**Czech Republic (formerly Czechoslovakia)**  
Bukov, near Tišnov **9**:114  
**Sweden**  
Långban district **8**:517  
Skrikerum **19**:295
- BERZELIITE**  
**Sweden**  
Långban: **19**:295h,d; masses **10**:216–217
- BESMERTNOVITE**  
*See Bezsmertnovite*
- BETAFITE**  
**Brazil**  
Minas Gerais  
Ferros **2**:12n  
**Canada**  
Ontario  
Silver Crater mine (Basin property), near Bancroft, Hastings County: **10**:153–155p, **13**:73, **13**:76p; crystals to 10 cm **13**:201p  
**Italy**  
Lazio  
Vetarella, Vico (non-metamict) **23**:434n  
**Madagascar**  
Betafo **10**:155
- BETEKHTINITE**  
**Kazakhstan (formerly USSR)**  
Dzeshkazgan: **23**:279p, **23**:280n; 3 cm prismatic **21**:492n  
**Namibia**  
Tsumeb (needles) **8**:T20n
- BETPAKDALITE**  
**France**  
Celtic Age mine, Vaulry, Haute-Vienne (crystalline crusts) **23**:434n
- BEUDANTITE**  
**Australia**  
New South Wales  
Kintore opencut, Broken Hill (corkite-beudantite) **19**:429q  
Victoria  
Clunes **18**:29  
St. Arnaud **18**:29  
Western Australia  
Ashburton Downs (powder, minute crystals) **24**:209p,q  
**Canada**  
British Columbia  
Highland Bell mine, Beaverdell **20**:445  
Québec  
Mt. St-Hilaire: **19**:364n; micro drusy **21**:299
- Greece**  
Kamaréza mine, Laurium (minute rhombs) **7**:123
- Namibia**  
Tsumeb: **8**:390, **17**:341n; masses, crystals **8**:T20, **8**:T49, **8**:T80p
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12**:250
- United States**  
Arizona  
Mammoth mine, Pinal County (id as creaseyite) **11**:176  
Southwest mine, Bisbee district (micro crystals) **12**:294  
Nevada  
Killie mine, Elko County **18**:416  
Utah  
Gold Hill mine (micro pseudocubic) **24**:17
- Zambia**  
Broken Hill mine (tentative id) **11**:347
- BEUSITE**  
In pegmatite environments **4**:109–110
- Argentina**  
Los Aleros pegmatite **4**:110  
Three localities **4**:118
- BEYERITE**  
**Canada**  
Québec  
Evans-Lou pegmatite (bismutite-beyerite mix) **3**:73q  
**United States**  
California  
Himalaya dike system, San Diego County (powdery) **8**:471  
Jensen quarry, Riverside County (coatings, micro druses) **15**:281, **15**:287n  
New Mexico  
Harding mine: **20**:64n; minute plates **8**:124
- BEZSMERTNOVITE**  
Localities not specified **13**:392q, **13**:393  
**USSR (former)**  
Two localities (grains) **13**:393n  
"BIALITE"  
Discredited; id as wavellite **1**:30n
- BIANCHITE**  
**Austria**  
Bleiberg district **17**:360  
**United States**  
Arizona  
Campbell shaft, Bisbee district (post-mining crusts) **12**:294  
Junction shaft, Bisbee district (post-mining stalactites) **12**:294  
New Jersey  
Sterling mine (efflorescences) **25**:97–98q,h
- BICCHULITE**  
**Japan**  
Bicchuco, Okayama **9**:113  
Fuga, Okayama-ken **8**:517
- BIDEAUXITE**  
**United States**  
Arizona  
Mammoth-St. Anthony mine, Pinal County: **11**:163p, **11**:172; newly described **2**:29h,c,q
- BIEBERITE**  
**United States**  
Arizona  
New Cornelia mine, Pima County (pink efflorescent) **14**:294
- BIJVOETITE**  
**Zaire**  
Shaba **20**:277–278p, **20**:398
- BIKITAITE**  
**United States**  
North Carolina  
Foote mine **1**:92
- BILIBINSKITE**  
Localities not specified **13**:392q, **13**:393  
**USSR (former)**  
Two localities listed **13**:393n
- BILINITE**  
**United States**  
Arizona  
Higgins mine, Bisbee **24**:428
- BILLIETITE**  
**Zaire**  
Musonoi mine **9**:33  
Shinkolobwe mine: **9**:33, **20**:278p; crystals to 4 mm **8**:390
- BINDHEIMITE**  
**Australia**  
New South Wales  
Broken Hill **7**:30n  
Western Australia  
Ashburton Downs (powder) **24**:209
- Brazil**  
Minas Gerais  
Morro do Bule prospect, near Capão da Lana (coatings) **6**:283
- Canada**  
Ontario  
Rogers mine, near Madoc **13**:91
- Namibia**  
Tsumeb (bladed) **8**:T20n, **8**:T83p
- United States**  
Arizona  
Campbell shaft, Bisbee district **12**:294  
California  
Darwin district, Inyo County **15**:13  
Kalkar quarry, Santa Cruz County (coatings) **17**:321  
Idaho  
Bunker Hill mine (earthy; confused with massicot) **12**:345–346
- BIOTITE**  
**Australia**  
South Australia  
Wallaroo mines **19**:413  
Yelta mine, Moonta district **19**:413

## GENERAL INDEX

- Brazil**  
 Minas Gerais  
 Córrego do Urucum pegmatite **17:309n**  
 Jaguarauçu mine (large blades with powdery hematite) **25:168**
- Canada**  
 British Columbia  
 Ice River complex (phlogopite-biotite) **12:224**  
 Ontario  
 Davis Hill: crystals to 67 cm long **21:242–243c,q,p**; huge crystals **13:77n**  
 Kuehl Lake, Renfrew County **13:212–213q**  
 Silver Crater mine, Bancroft area: huge crystals **13:77n**; plates over 1 m across **10:155n**  
 Smart mine, Renfrew County (brownish) **13:212–213q**  
 Smith-Lacey mine (huge crystals) **13:77n**  
 Tory Hill (euhedral) **13:77p**  
 Québec  
 Bear Lake mine, Litchfield Township (ferrian, “lepidomelane”); prismatic crystals **9:94p**  
 Mt. St-Hilaire: compact masses **13:242**; euhedral to several cm **21:299**
- Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district (free-standing micro crystals) **8:320–321d,c**, **10:92p**
- Greenland**  
 Narssárssuk **5:120n**
- South Africa**  
 Transvaal  
 Messina district (some interstratified with vermiculite, “hydrobiotite”) **22:193**  
 Palabora mine **22:257**
- United States**  
 Arizona  
 Bisbee district **12:294n**  
 New Cornelia mine, Pima County **14:294**  
 California  
 Jensen quarry, Riverside County (strips) **15:282**, **15:287n**  
 Kalkar quarry, Santa Cruz County **17:324n**  
 Little Patsy quarry, Jefferson County (books to 60 cm) **21:429**  
 Little Three pegmatites, San Diego County **20:110**  
 Colorado  
 Cameron Cone, El Paso County **16:224n**  
 Italian Mountain area, Gunnison County (fine-grained) **15:86n**  
 Pikes Peak batholith **10:377**  
 Specimen Rock, El Paso County **16:224n**  
 Van Buskirk mine, Fremont County (blades to 120 cm) **5:188**  
 Wigwam Creek, El Paso County **16:224n**  
 Connecticut  
 Gillette quarry, Middlesex County **23:24n**  
 Idaho  
 Sawtooth batholith (pocket crystals) **24:192**  
 Massachusetts  
 Chester emery mines (massive) **9:240**  
 Maine  
 Bennett quarry (blades, books to 10 cm) **25:179**  
 Mt. Mica **16:372n**  
 New Hampshire  
 Carroll County **20:391**  
 Government pit, Carroll County **14:(47)**  
 New Mexico  
 Harding mine (euhedral) **8:123n**  
 Oregon  
 Obsidian Cliffs, Lane County (hematite after) **12:44**  
 Wisconsin  
 Rib Mountain, Marathon County (euhedral) **12:96**
- BIPHOSPHAMMITE**  
**Australia**  
 Western Australia  
 Cocklebidy **9:(113)**  
 Murra-el-Elevyn Cave, Cocklebidy **9:(113)**
- BIRNESSITE**  
**Canada**  
 Québec  
 DeMix quarry (after serandite, 13 cm) **9:94p**  
 Mt. St-Hilaire (replacing euhedral serandite to 20 cm, rhodochrosite) **21:299**, **21:300p**
- South Africa**  
 Cape Province  
 Kalahari manganese field (“manganous manganite” id as) **22:282**
- United States**  
 Utah  
 Tooele County (locality not specified) (on calcite stalactite) **22:384n**
- “BISBEEITE”  
*Poss. mixture of chrysocolla and plancheite*
- United States**  
 Arizona  
 New Cornelia mine, Pima County (unverified occurrence) **14:294**  
 Shattuck shaft, Bisbee district (after acicular shattuckite) **12:294**  
 New Mexico  
 Hansonburg district, Socorro County **20:(35)**
- BISCHOFITE**  
 Toxicity **11:7**
- Canada**  
 Saskatchewan  
 PCS Rocanville mine, Rocanville (crystals to 10 cm) **24:385n**
- BISMITE**  
**Australia**  
 New South Wales  
 Old 25 pipe, Kingsgate mines (fibrous yellow coatings) **16:285p**
- United States**  
 Arizona  
 Campbell shaft, Bisbee **24:428**  
 California  
 Little Three pegmatites, San Diego County **20:121**  
 New Mexico  
 Harding mine (earthy) **8:124**
- BISMOCLITE**  
**United States**  
 Nevada  
 Outlaw mine, Nye County (bismoclite-daubreeite; tiny crystals) **22:178–179p**
- BISMUTH**  
**Australia**  
 New South Wales  
 Forty pipe, Kingsgate mines (masses to 14 kg) **16:279**  
 Kingsgate mines **16:279**  
 Sachs’ pipe, Kingsgate mines (parallel wires in quartz) **16:279**  
 Queensland  
 Mt. Isa mine **19:478**  
 Wolfram Camp **19:(335)**  
 Victoria  
 Nuggety Reef, Maldon goldfield **18:(28)**
- Brazil**  
 Minas Gerais  
 Córrego do Urucum pegmatite (particles in loellinginte) **17:309n**  
 Énio pegmatite, near Galiléia (skeletal threads) **12:69**
- Canada**  
 British Columbia  
 Glacier Gulch South Side Group, near Smithers: **15:(90)**; coatings **2:204**  
 Good Hope group, near Smithers (flakes) **2:207**  
 Northwest Territories  
 Eldorado mine, Port Radium **20:203**, **20:204p**  
 Port Radium **20:203**  
 Québec  
 Evans-Lou pegmatite **3:73**  
 Mt. St-Hilaire (minute blobs) **21:299**
- Czech Republic (formerly Czechoslovakia)**  
 Jáchymov (St. Joachimsthal) **17:(15)**
- England**  
 Cornwall  
 Botallack district (massive; crude rhombs) **24:279**
- Germany**  
 Halle  
 Mansfeld Kupferschiefer **17:(10)**  
 Mackenheim, Odenwald (dendritic) **8:305p**  
 Obersachsen  
 Erzgebirge (1 cm rhombohedra) **18:356n**  
 Johanngeorgenstadt (in “silver agate” jasper nodules) **17:14**  
 Oberschlema, Erzgebirge (1 cm crystals) **17:209n**  
 Schneeberg: **17:(13)**; sharp crystals to 1.5 cm **21:173n**
- Madagascar**  
 Anjanabonoina **20:196**
- United States**  
 Arizona  
 Campbell shaft, Bisbee **24:428**  
 California  
 Essex mine, Inyo County (tentative id) **15:13**  
 Kalkar quarry, Santa Cruz County **17:320**  
 Little Three pegmatites, San Diego County **20:121**  
 Colorado  
 Ophir district, San Miguel County **10:358n**  
 Connecticut  
 Booth’s mine, Fairfield County **2:(17)**  
 Lane’s mine, Fairfield County **2:(17)**  
 Nevada  
 Majuba Hill mine (minute grains) **24:173–174**  
 New Mexico  
 Harding mine: **20:64n**; masses **8:124**  
 South Dakota  
 Tip Top mine **17:(239)**
- BISMUTHAURITE**  
*Incompletely described mineral*
- United States**  
 North Carolina  
 Rutherford County (poss. maldonite) **13:397**
- BISMUTHINITE**  
**Australia**  
 New South Wales  
 Kingsgate mines: **16:279–280p**; needles in quartz **16:285**  
 Old 25 mine, Kingsgate mines: acicular **16:279**, **16:281p**; bismutite after **16:286p**  
 One and Nine mine, Kingsgate mines (bladed mass) **16:280p**  
 Wet shaft, Kingsgate mines (acicular) **16:281p**  
 Northern Territory  
 Tennant Creek **18:(28)**  
 Victoria  
 Nuggety Reef, Maldon goldfield **18:(28)**
- Canada**  
 British Columbia  
 Glacier Gulch South Side Group, near Smithers: massive **2:204**; some with gold **15:90**

**GENERAL INDEX**

- Québec  
Evans-Lou pegmatite (rims around bismuth) **3:72, 3:73**
- Czech Republic (formerly Czechoslovakia)**  
Jáchymov (St. Joachimsthal) **17:(15)**
- England**  
Cornwall  
Botallack district (laths, acicular) **24:279**
- Italy**  
Boccheggiano mine, Tuscany **10:291n**
- Mexico**  
Durango  
El Sombrete (micro crystals) **9:37n**
- Peru**  
Huancavelica (crystals to 7 mm) **9:36n**  
Julcani district **5:217–218**
- United States**  
Arizona  
Campbell shaft, Bisbee **24:428n**  
California  
Durham mine, Inyo County **15:13n**  
Colorado  
Rico Argentine mine, Rico district (crystals on fluorite) **16:215n**  
Silverton district, San Juan County **10:358n**  
Connecticut  
Case quarry, Middlesex County **19:332n**  
Maine  
Upper Colton Hill pegmatite, Oxford County **22:(383)**  
Michigan  
Ropes mine, Marquette County (unverified) **17:(120)**  
Nevada  
Majuba Hill mine (minute grains) **24:174**  
Outlaw mine, Nye County **22:178n**  
New Mexico  
Harding mine (fibrous) **8:124**
- 
- BISMUTITE**
- Australia**  
New South Wales  
Old 25 pipe, Kingsgate mines (primary crystals and after bismuthinite) **16:286–287p**
- Canada**  
Québec  
Evans-Lou pegmatite (bismutite-beyerite mix) **3:73q**
- Greece**  
Kamaréza mine, Laurium (earthy) **7:124n**
- United States**  
Arizona  
Campbell shaft, Bisbee (after alkinite) **24:428n**  
Comstock mine, Cochise County (crystals) **18:360n**  
California  
Durham mine, Inyo County **15:13n**  
Little Three pegmatites, San Diego County **20:121**  
Colorado  
Lilian mine, Leadville district, Lake County **16:(197)**  
Connecticut  
Case quarry, Middlesex County **19:332n**  
Nevada  
Majuba Hill mine (minute grains) **24:174**  
Outlaw mine, Nye County (crusts) **22:179**  
New Mexico  
Harding mine: **20:64n**; earthy, fibrous **8:124**
- 
- BISMUTOCOLUMBITE**
- Russia (formerly USSR)**  
Danburitovaya mine, Malchan Range, Central Transbaikalia (micro crystals) **23:433**
- 
- BISMUTOMICROLITE**
- Russia (formerly USSR)**  
Danburitovaya mine, Malchan Range, Central Transbaikalia (micro crystals) **23:433**
- 
- BISMUTOTANTALITE**
- United States**  
New Mexico  
Harding mine (masses) **8:123**
- 
- BIXBYITE**
- South Africa**  
Cape Province  
Kalahari manganese field: **9:151**; 0.5 mm cubes **22:282**  
N'Chwaning mine (crystals to 5 mm) **9:151**  
Postmasburg mine, Postmasburg (cubes to 2.5 cm) **22:282**
- United States**  
Arizona  
Ash Creek, Pinal County (epitaxial on spessartine) **23:488–491p**  
Shattuck shaft, Bisbee district (massive) **12:294**  
New Mexico  
Paramount Canyon, Sierra County (locality not specified): **16:139, 16:143p, 20:60**; ilmenite on **20:54–55c,d,p**  
Utah  
Thomas Range: crystals to 12 mm **10:264h, 10:267p**; oriented on topaz **10:269**  
Topaz Mountain, Juab County (“necklace” on topaz) **16:139, 16:142p**  
Wah Wah Mountains **10:276–277**
- 
- BJAREBYITE**
- United States**  
New Hampshire  
Palermo mine: **4:126–127, 4:232, 5:278n**; newly described, micro crystals **4:282–285h,c,d,q**
- 
- “BLAKEITE”
- Mixture of goethite and tellurite*
- United States**  
Nevada  
Goldfield, Esmeralda County (2 localities) **16:44h**
- 
- “BLANCHARDITE”
- See also Brochantite*  
Species status: **3:130**; id as brochantite **3:229–230**
- 
- BLIXITE**
- England**  
Somerset  
Merehead quarry, near Cranmore (blixite-like unknown) **8:301p**
- Sweden**  
Långban **8:(517), 10:215, 10:216p**
- 
- BLÖDITE**
- Chile**  
Chuquicamata (fibrous) **9:325**
- 
- BLOSSITE**
- El Salvador**  
Izalco volcano **18:(339)**
- 
- BOBIERRITE**
- Australia**  
Western Australia  
Wodgina, Pilbarra district (minute laths) **5:265q**
- Canada**  
Yukon  
Big Fish River area (minute crystals) **23:Y36q**
- 
- BOGDANOVITE**
- Localities not specified **13:392q, 13:393**
- United States**  
Arizona  
Campbell shaft, Bisbee (grains) **24:428n**
- USSR (former)**  
Two localities listed (grains) **13:393n**
- 
- BOGGILDITE**
- Greenland**  
Ivigut **4:126**
- 
- BOGGSITE**
- United States**  
Oregon  
Goble (near), Columbia County (newly described) **22:57–58h,q,c**
- 
- BØGVADITE**
- Greenland**  
Ivigut (minute rectangular crystals) **24:G36c**
- 
- BÖHMITE**
- Canada**  
Ontario  
Princess sodalite, near Bancroft mine (fluffy, flaky) **13:227**
- Norway**  
Langesundfjord area, Oslo Region **12:227–230p,q,c,d**
- United States**  
Arizona  
Bisbee district **12:294**
- 
- BOKITE**
- United States**  
Arizona  
Monument No. 2 mine, Apache County **22:(381), 24:(46)**
- 
- BOLEITE**
- Mineralogy of the boleite group; numerous world localities **5:280–287h,p,q**
- Australia**  
New South Wales  
Kintore opencut, Broken Hill **19:429, 19:430p**
- Chile**  
Mina Herminia, Sierra Gorda (“percylite” id as) **11:103n**
- Greece**  
Laurium: micro, in slag **7:121**; minute crystals in slag **4:262–263**
- Mexico**  
Baja California  
Boléo **5:280h, 5:285q**  
Santa Rosalia (cumengite on, 4 cm euhedral) **13:(32p)**
- United States**  
Arizona  
Mammoth mine, Pinal County **11:163p, 11:172**  
Rowley mine, Maricopa County: **5:18**; micro **17:405n**  
Montana  
Philipsburg, Granite County (greenish blue cubes) **5:282**
- 
- BOLIVIA**
- Animas vein, Chocaya district, Potosí **21:98s**  
Antequera district, south of Oruro, Oruro Dept. **5:163–164h, 6:125–137**  
Araca (see Viloca)  
Avicaya mine, near Antequera, south of Oruro **5:163h**  
Bolivia mine, Poopó district, Oruro Dept. **6:125–137**  
Bronce vein, Oruro district, Oruro Dept. **6:125–137**  
Calacalani district, Oruro Dept. **6:125–137, 12:85s**

## GENERAL INDEX

- Candelaria mine, Poopó district, Oruro Dept. **6**:125–137
- Cassiterite deposits **8**:52–57
- Chambillaya tungsten mine, near Quime **10**:139s
- Colquiri mine, Inquisivi province, La Paz Dept. **6**:278–281g,h,p
- Coriviri mine, north of Poopó **6**:126s
- El Dragón mine, Potosí **21**:133–146h,m,g,p
- Gordon, Samuel G., expeditions: 1925 **5**:161–166; 1929 **5**:257–259
- Huanuni district, Oruro Dept. **6**:125–137, **18**:245s, **18**:365s, **20**:300s
- Ichucollo mine, Monserrat district, Oruro Dept. **6**:125–137
- Itos mine, Oruro district, Oruro Dept. **6**:125–137s
- La Bomba mine, Conde-Auque district, Oruro Dept. **6**:125–137
- La Colorada mine, Oruro district, Oruro Dept. **6**:125–137s
- La Salvadora mine, Oruro **14**:54s
- Lequepalca district, Oruro Dept. **6**:125–137
- Llallagua, Potosí **4**:27s, **4**:278–279, **5**:161–162g,h, **5**:257–258h, **7**:315b, **13**:235–238s
- María Teresa mine, Challapata district, Oruro Dept. **6**:125–137
- Mark Chance Bandy in **4**:278–279h
- Mineralogy of Llallagua, Bolivia* **7**:315b
- Miraflores mine, Huanuni **13**:41s
- Monserrat mines, near Antequera, south of Oruro, Oruro Dept **4**:278s, **5**:163–164h, **6**:125–137
- Morococala mine, Dalence province, near Oruro **15**:249–250, **23**:276s, **25**:382s
- Mosojllacta **4**:279s
- Orlandini tin mine, Ubina **4**:141s
- Oruro Dept.: **8**:390s, **8**:517s, **23**:84s; mineralogy of 37 mines in 20 districts **6**:125–137h,m,g,p
- Pacajake mine, near Hiaco, Colquechaca **10**:247s
- Poopó **8**:390s
- Porvenir mine, Caracollo district, Oruro Dept. **6**:125–137
- Quimsacoya mine, Huanuni district, Oruro Dept. **6**:125–137
- San Francisco mine, near Villa Tunari, Cochabamba **11**:111s
- San Francisco mine, Poopó district, Oruro Dept. **6**:125–137
- San José mine, Oruro district, Oruro Dept. **6**:125–137s, **14**:388–389s, **15**:46s
- San Miquel mine, Lequepalca district, Oruro Dept. **6**:125–137
- Santa Cruz mine, Poopó **1**:107s, **25**:140s
- Santa Fe mine (actually Morococala mine; see **15**:249), near Morococala, Dalence province **14**:388s, **15**:45s
- Santa Isabella mine, Conde-Auque district, Oruro Dept. **6**:125–137
- Siglo XX mine, Llallagua **13**:41s
- Socavon mine, Oruro district, Oruro Dept. **6**:125–137s
- Tarumita mine, Caracollo district, Oruro Dept. **6**:125–137
- Totoral mine, near Antequera, south of Oruro **5**:163h
- Transport of minerals without permit outlawed (1981) **12**:393
- Trinacria mine, Poopó district, Oruro Dept. **6**:125–137
- Unificada mine, Cerro de Potosí **10**:35s
- Viloca (Araca) mines, Pongo, north end of Quimsa Cruz range, southeast of La Paz **4**:278s, **5**:164, **11**:322s, **18**:365s, **20**:394s, **25**:60s
- 
- BOLTWOODITE**
- 
- Namibia**
- Arandis (acicular to 1 cm) **6**:250–251
- 
- United States**
- California
- New Method mine, San Bernardino County (on purple fluorite) **16**:150, **16**:151p
- “BONAMITE”
- 
- See *Smithsonite*
- 
- BONATTITE**
- 
- United States**
- Nevada
- Steamboat Springs, Washoe County (botryoidal crusts) **16**:31n
- 
- BOOK REVIEWS**
- 
- See also *Publications*
- Abbreviated Manual of Franklin Minerals*, An. Ervin F. Kushner. 1970 **2**:47
- Achate—Bilder im Stein*. Dr. Josef Arnoth. 1986 **20**:150–151
- Alpe Devero ed i Suoi Minerali*, L'. Claudio Albertini. 1991 **24**:399
- Alpinen Klufth Mineralien der österreichischen Ostalpen*, Die. Heinz Weninger. 1974 **8**:66
- American Geological Literature, 1669 to 1850*. Robert M. Hazen & Margaret H. Hazen. 1980 **15**:47
- Answers About Rocks and Minerals*. Frederick Smithline. 1971 **3**:40–41
- Antero Aquamarines*. Mark I. Jacobsen. 1993 **25**:147
- Atlante dei Minerali di Baveno*. Giuseppe Nova. 1987 **20**:490
- Atlas des Minéraux Metalliques*. P. Pico & Z. Johan. 1978 **9**:256
- Bergbaugeschichte, Geologie und Mineralien von Ehrenfriedersdorf/Sa, mit 30 Exkursionszielen*. S. Flach, F. Hofmann, B. Lahl, M. Mann, & G. Urban. 1991 **23**:413
- Bergkristall (ExtraLapis No. 3)*. Max Glas, ed. 1992 **25**:305
- Bergkristall; Stein der Weisen der Wissenschaft*. 1992 **24**:399
- Bergmanns Geleucht: Offenes Geleucht: Karbidlampen*, Des. Karsten Porezag. 1982 **14**:60
- Bibliography of American locality literature, by state **18**:211–227
- Bibliotheca De Re Metallica: the Herbert Clark Hoover Collection of Mining and Metallurgy*. David Kuhner (annotator), Tania Rizzo (cataloger), and Cyril Stanley Smith (introduction). 1980 **15**:311
- Birthday Book of Gems*. Harold & Erica Van Pelt, photographers. (no year) **18**:117
- Brazil: Paradise of Gemstones*. Jules R. Sauer. 1982 **15**:311
- Butte's Memory Book*. Don James. 1980 **15**:311
- Caleidescop Mineralogic*. Rodiscu Apostolescu. 1987 **19**:340
- Chemical Equilibria in the Earth*. Wallace S. Broecker & Virginia M. Oversby. 1971 **3**:124
- Cleaning and Preserving Minerals*. Richard M. Pearl. 1971 **3**:277
- Collector's Catalog, The*. Joseph W. Pfeifer. 1991 **23**:411
- Collector's Guide to Rocks and Minerals, The*. James R. Tindal & Roger Thornhill. 1975 **6**:313
- Collector's Guide to the Minerals, Rocks and Gemstones in Cornwall and Devon*, A. **1**:150
- Colorado Gold, from the Pike's Peak Rush to the Present*. Stephen M. Voynick. 1992 **23**:503
- Colorado pegmatites: abstracts, short papers, and field guides from the Colorado Pegmatite Symposium, May 30–June 2, 1986*. Peter J. Modreski, ed. 1986 **20**:402
- Color and Symmetry*. Arthur Loeb. 1971 **3**:133
- Colorful Mineral Identifier*. Anthony C. Tennissen; photographs by Werner Lieber. 1969 **4**:82
- Color Treasury of Crystals*. Carlo Bevilacqua & Vincenzo de Michele. 1972 **3**:276
- Color Underground*. John S. White; photographs by Lee Boltin. 1971 **4**:146–147
- Complete Book of Micromounting*. Quintin Wight. 1993 **24**:398–399
- Complete Guide to Rocks, Minerals, and Gems, The*. Hans Tanner, ed. 1970 **2**:228–229
- Connecticut Mines and Minerals*. John Hiller. 1971 **2**:139
- Contemporary Crystallography*. Martin J. Buerger. 1970 **3**:124
- Contributo alla Mineralogia del Vicentino*. M. Boscardin & S. Sovilla. (no year) **23**:413
- Cornwall's Old Mines*. H. V. Williams. (no year) **5**:94–95
- Crystal Chemistry and Refractivity*. Howard W. Jaffe. 1988 **20**:402
- Crystal Growth*. H. E. Buckley. (no year) **1**:130
- Crystal Growth in Gels*. Heinz K. Henisch. 1970 **2**:87
- Crystallography and Crystal Chemistry*. Donald F. Bloss. 1971 **2**:88, **2**:140
- Crystal Quest I*. Marcel Vanek. 1991 **22**:309
- Crystals and Crystal Growing*. Alan Holden & Phyllis Singer. 1960 **1**:81
- Crystals and Light*. Elizabeth Wood. 1964 **1**:82
- Crystals and Their Structures*. Arthur P. Cracknell. 1969 **2**:148
- Crystals and the Polarizing Microscope*. N. H. Harsthorne & A. Stuart. 1970 **2**:148
- Crystals and X-rays*. H. S. Lipson. 1970 **3**:133
- Curious World of Crystals, The*. Lenore Sander. 1964 **2**:87–88
- Dictionary of Rocks*. Richard S. Mitchell. 1985 **17**:143
- DIG IT! A Directory of Fee-Basis Rock Collecting Sites Open to Amateurs*. Carol E. Kindler. 1978 **9**:256
- Discovery of the Wingstars, The*. Russel T. Wing. 1970 **2**:35; rebuttal from author **2**:96
- Edelsteinkundliches Handbuch*. Karl F. Chdoba & E. J. Gübelin. 3rd ed. (no year) **7**:87
- Edlen Steine Sachsens, Die*. Werner Quellmalz. 1990 **23**:412
- Eifel Mineralen, Mineraux, Mineralien*. Eddy Van Der Meesche. (no year) **25**:306
- Emerald and Other Beryls*. John Sinkankas. 1981 **14**:59
- Encyclopedia of Minerals*. Willard L. Roberts, George R. Rapp, Jr., & J. Weber. 1974: **6**:41–43; letter **6**:212
- Encyclopedia of Minerals*. Willard L. Roberts, Thomas J. Campbell, & George R. Rapp, Jr. 2nd ed., 1990 **21**:496–497
- Encyclopedia of Rocks and Minerals*. Anonymous (Cracker Jack prize, prob. by Herbert S. Zim). (no year) **7**:318
- Entdeckung des Isomorphismus, Die*. Hans-Werner Schütt. 1984 **19**:125
- Epidotfundstelle Knappenwand*. Robert Seeman. 1987 **19**:340
- Erz- und Minerallagerstätten des Mittleren Schwarzwaldes*. M. Bliedtner & M. Martin. 1986 **19**:340
- Exploring Crystals*. James Berry. 1969 **3**:40
- Fabulous Keokuk Geodes, The* (vol. 1). Steven R. Sinotte. 1969 **2**:35–36
- Famous Mineral Localities of Canada*. Joel D. Grice. 1989 **21**:497–498
- Field Description of Sedimentary Rocks, The*. Maurice E. Tucker. 1982 **14**:60
- Field Guide to Rocks and Minerals*, A. Frederick H. Pough. 4th ed., 1976 **8**:416
- Field Ion Microscopy*. Erwin W. Müller & Tien Tzou Tsong. 1969 **3**:124
- Fluorit (ExtraLapis No. 4)*. Max Glas, ed. 1992 **25**:305

- Frog Lamps, A Survey of Examples from 1529 to 1979.* Wendell E. Wilson. 1981 **13**:176
- Gem and Crystal Treasures.* Peter Bancroft. 1984 **15**:373–374
- Gem Cutting, A Lapidary's Manual.* John Sinkankas. 3rd ed., 1984 **16**:160
- Gems, Granites, and Gravels; knowing and using rocks and minerals.* R. V. Dietrich & Brian Skinner. 1990 **22**:153
- Gems of the USSR.* J. P. Samsonov & A. P. Turingue. 1984 **19**:340
- Gemstone and Mineral Data Book.* John Sinkankas. 1972. **4**:82
- Geode Country.* Stephen R. Sinotte. 1972 **3**:277–278
- Geologic Reference Sources.* D. C. Ward & M. W. Wheeler. 1972 **5**:193–194
- Geologie der Eifel.* W. Meyer. 1986 **19**:126
- Geologischer Wanderführer: Eifel.* Wilhelm Meyer. 1983 **19**:126
- Geology of Ore Deposits, The.* John M. Guilbert & Charles F. Park, Jr. 1986 **20**:401–402
- Geology of World Gem Deposits.* S. L. van Landingham, ed. 1985 **17**:143
- Giacimenti Uraniferi Italiani e i Loro Minerali, I.* Danieli Ravagnani. 1974 **20**:490
- Giant Crystals, Precious Minerals.* Henri-Jean Schubnel. 1987 **20**:149–150
- Gill's Index to Journals, Articles and Books Relating to Gems and Jewelry.* Joseph O. Gill. 1978 **12**:120
- Glossary of Geology.* Margaret Gary, Robert McAfee, Jr., & Carol C. Wolf, eds. 3rd ed. (no year) **4**:81–82
- Glossary of Geology.* Robert L. Bates & Julia Jackson. 1987 **22**:2
- Glossary of the Minerals of the Lake District and Adjoining Areas.* B. Young. 1987 **19**:206
- Gold Fever.* Kenneth J. Kutz. 1987 **20**:489
- Gold: History and Genesis of Deposits.* Robert W. Boyle. 1987 **18**:4, **19**:75
- Gold: Mineral, Macht und Illusion: 500 Jahre Goldraush.* Maximilian Glas, ed. 1992 **23**:504
- Gold—Vorkommen und Gewinnung in Europa.* Dr. Wolfgang Homann. 1986 **18**:4
- Great Metal Mines of Wales, The.* (Number One) David E. Bick. 1975 **7**:317
- Grönland: Mineralien, Geologie, Geschichte.* Ole V. Petersen & Karsten Secher. 1985 **18**:357
- Grosse Lapis Mineralienverzeichnis, Der.* Stefan Weiss. 1990 **22**:309
- Growth of Single Crystals, The.* Robert A. Laudise. 1970 **2**:246ff
- Grundwissen in Mineralogie.* E. Nickel. 1973 **5**:94
- Guidelines for the Curation of Geological Materials.* Brunton, Besterman, & Cooper. 1985 (letter) **19**:341
- Guide to Mineral Collecting at Franklin and Sterling Hill, New Jersey.* A. Ervan F. Kushner. 1974 **6**:150–151
- Guide to Mineral Collecting at Ouray, Colorado.* A. Ervan F. Kushner. 1972 **5**:90–91
- Guide to the Minerals of Switzerland.* A. Max Weibel. 1966 **2**:139
- Handbook of Crystal and Mineral Collecting.* William B. Sanborn. 1966 **4**:44
- Handbook of Mineralogy.* John W. Anthony, Richard A. Bideaux, Kenneth W. Bladh, & Monte C. Nichols. 1990 **22**:59–60
- Harzer Bergbau und Minerale: St. Andreasberg.* Georg Gephard with Klaus Stedingk. 1988 **19**:205–206
- Henkel Glossary of Fluorescent Minerals.* Gerhard Henkel. 1989 **21**:497
- How to Invest in Gems: Everyone's Guide to Buying Rubies, Sapphires, Emeralds, and Diamonds.* Benjamin Zucker. 1976 **8**:66–67
- Hunsrück und Nahe.* Volker Kneidl. 1984 **19**:126
- Idaho Minerals.* Lanny R. Ream. 1989 **20**:489
- Index of Crystallographic Supplies.* Reuben Rudman. 3rd ed., 1972 **4**:44–45
- International Handbook, The.* Sande H. Zirlin. 1981 **13**:175
- Introduction to Crystal Chemistry, An.* R. C. Evans. 1966 **1**:81–82
- Introduction to Crystal Geometry.* Martin J. Buerger. 1971 **2**:246
- Introduction to Japanese Minerals.* M. Nambu, ed. cmte. chair. 1970 **4**:147
- Introduction to the Chemistry of Rocks and Minerals, An.* Max B. Perrin. 1975 **8**:67
- Introduction to the Methods of Optical Crystallography.* F. Donald Bloss. 1961 **1**:129–130
- Inventaire Minéralogique de la France: No. 3, 29-Finistère (1973); No. 4, 06-Alpes Maritimes (1974); No. 5, 22-Côtes du Nord (1975); No. 6, 81-Tarn (1976).* Bureau de Recherches Géologiques et Minières. **8**:67
- Inventaire Minéralogique de la France: No. 9, 56-Morbihan.* R. Pierrot, L. Chauris, C. LaForet, & F. Pillard. 1980? **12**:120
- Inventaire Minéralogique de la France: 15-Cantal.* R. Pierrot, P. Picot, & J. J. Périchaud. 1971 **6**:43–45
- Inventaire Minéralogique de la France: 05-Hautes Alpes.* R. Pierrot, P. Picot, & P. A. Poulain. 1972 **6**:43–45
- Irradiation Colors and Luminescence.* Karl Przibram. 1956 **2**:148ff
- Jade, Juwel des Himmels.* (exhibition catalog) 1992 **25**:306
- Klöß, ein Südossteirisches Basaltvorkommen und Seine Minerale.* J. Taucher, W. Postl, B. Moser, D. Jakely, & P. Golob. 1989 **21**:498
- Klüfte und Kristalle.* P. Amacher. 1986? **19**:126
- Kristall Alpin (ExtraLapis No. 5).* Max Glas, ed. 1992 **25**:305
- Kristalle unter der Lupe.* Werner Lieber. 1972 **4**:81
- Kristalle wie sie wirklich sind.* Werner Lieber. 1977 **9**:383
- Lapis Lazuli, Le.* Claire da Cunha. 1989 **22**:153
- Larousse de Pierres Precieuses: fines, ornamentales, organiques.* Pierre Bariand & Michel Duchamp. 1985 **19**:125
- Literature of Mineralogy, The.* Michael O'Donoghue. 1986 **19**:206
- Maine's Treasure Chest: Gems and Minerals of Oxford County.* Jane C. Perham. 1987 **19**:339
- Manual of Mineralogy.* Cornelius S. Hurlbut, Jr. & Cornelius Klein. 1977 **9**:123
- Manual of the Mineralogy of Great Britain and Ireland.* Robert P. Greg & William G. Lettsom. Facsimile of 1858 ed. with additions. 1977 **11**:49
- Mathematical Practitioners of Hanoverian England 1714–1840, The.* E. G. R. Taylor. 1989 **20**:489
- Menschen, Minen, und Mineralien.* Werner Lieber. 1979 **11**:50
- Metalliferous Mining Region of South-west England, The.* H. G. Dines. 1988 **20**:489–490
- Metallogeny and Global Tectonics.* Wilfred Walker, ed. 1976 **7**:317
- Metalogeneza Asociată Vulcanismului Neogen din Nord-Vestul Muntilor Oas.* Bucharest, 1986 **19**:340
- Micromounter, Der.* Alex Kipfer. 1972 **3**:276–277
- Mineral Collecting in Pennsylvania.* Davis M. Lapham & Alan R. Geyer. 1969 **2**:139
- Mineral Economics of Africa.* N. de Kun. 1987 **19**:206
- Minerale des Döhleener Beckens, Die.* Klaus Thalheim, Wolfgang Reichel, & Thomas Witzke. 1991 **24**:399
- Minerale Salzburgs, Die.* Albert Strasser. 1989 **21**:498
- Mineralfundorte in Europe.* G. Strübel & S. H. Zimmer. 1990 **23**:413
- Mineralfundstellen Atlas Deutschland West.* Stefan Weiss. 1990 **23**:413
- Mineral-Fundstellen: Baden-Württemberg.* M. Glas & H. Schmeltzer. (no year) **7**:315
- Mineralfundstellen im Land Salzburg.* Rupert Hochleitner. 1989 **21**:498
- Mineralfundstellen Ostharz und Lausiz.* H. Vollstädt, J. Siemroth, & S. Weiss. 1991 **23**:413
- Mineralfundstellen Sächsisches Erzgebirge.* H. Vollstädt & S. Weiss. 1990 **23**:413
- Mineral-Fundstellen: Skandinavien.* H. J. Wilke. (no year) **7**:315
- Mineralfundstellen Thüringen und Vogtland.* H. Vollstädt, R. Schmidt, & S. Weiss. 1991 **23**:413b
- Mineral-Fundstellen: Tirol, Salzburg, Südtirol.* L. Fruth. (no year) **7**:315
- Minerali Alpini e Prealpini.* C. M. Gramaccioli. 1975 **7**:315–317
- Minerali della Valle di Fassa Dove si Trovano e Come si Presentano, I* (Quaderno #3). Alessandro Braccio. 1968 **20**:490
- Mineralien der Eifelvulkane, Die.* G. Hentschel. 1983 **19**:126
- Mineralien der Schweiz, Die.* Max Weibel, Stefan Graeser, W. F. Oberholzer, & H.-A. Stalder. 1990 **22**:309
- Mineralien des Binntales, Die.* Stalder, P. Embrey, S. Graeser, & W. Novacki. 1978 **19**:126
- Μ θουμένων des Gotthardbahntunnels und des Gotthardstrassentunnels N2, Die.* H. A. Stalder, V. Sicher, & L. Lussmann. 1980 **19**:126
- Mineralien des Schwarzwaldes und ihre Fundstellen, Die.* Kurt Walenta. 1992 **24**:399
- Mineralienführer Harz, Der.* Frank Klose. 1985 **19**:126
- Mineralienführer Ostharz, Der.* Frank Klose. 1990 **22**:153
- Mineralienfundstellen im Raum Bad Lauterberg.* Heinrich Hotze. 1989 **22**:153
- Mineralienkunde.* Robert L. Parker. 5th ed. by H. U. Bambauer. 1975. **7**:87
- Mineralien Richtig Reinigen.* Ernst Sury. 1991 **25**:206
- Mineralien und Fundstellen, Bundesrepublik Deutschland.* R. Bode & A. Wittern. 1989 **21**:496
- Minerali Ossolani.* V. Mattioli. 1979 **19**:126
- Mineral Museums of Europe.* Ulrich Burchard & Rainer Bode. 1986 **18**:117
- Mineralogie der Grube Lengenbach, Binntal, Wallis.* B. Hofmann, S. Graeser, T. Imhof, V. Sicher, & H. A. Stalder. 1993 **25**:305–306
- Mineralogie.* Siegfried Matthes. 2nd ed., 1987 **19**:340
- Mineralogische Tabellen.* Hugo Strunz. 7th ed., 1978 **11**:50
- Mineralogy of Arizona.* John W. Anthony, Sidney A. Williams, & Richard A. Bideaux. 1977 **8**:415
- Mineralogy of Llallagua, Bolivia.* Mark Chance Bandy. 1944; reprint 1976 **7**:315
- Mineralogy of Michigan.* E. William Heinrich. 1976 **8**:415–416
- Mineralogy of Pennsylvania 1966–1975, The.* Robert C. Smith II. (no year) **11**:49



## GENERAL INDEX

- Mineralogy of Precious Metal Deposits, a symposium on the mineralogy of gold and silver deposits in Colorado and other areas.* Peter J. Modreski, ed. 1988 **20**:402
- Mineralogy of the Diamond, The.* Yu. L. Orlov. 1977 **9**:383
- Minerals and Gemstones of Nebraska.* Roger K. Pabian. 1971 **3**:278
- Minerals in Industry.* W. R. Jones. 1963 **1**:81
- Minerals of Broken Hill.* H. K. Worner & R. W. Mitchell, eds. 1982 **14**:253
- Minerals of California.* H. Earl Pemberton. 1983 **15**:47–48
- Minerals of Cornwall and Devon.* Peter Embrey & Robert Symes. 1987 **19**:138, **19**:339–340
- Minerals of Franklin and Sterling Hill, The: A Check List.* Clifford Frondel. 1972 **4**:44
- Minerals of Georgia (Their Properties and Occurrences).* Robert B. Cook. 1978 **11**:49–50
- Minerals of the English Lake District: Caldbeck Fells.* M. P. Cooper & C. J. Stanley. 1990 **22**:153
- Minerals of the Maldon Goldfield.* J. C. Haupt. 1982 **15**:47
- Minerals of the St. Lawrence Valley.* George W. Robinson & Schuyler W. Alverson. 1974 **5**:90
- Minerals of the Washington, D.C. Area.* Lawrence R. Bernstein. 1980 **13**:175
- Minerals of Virginia.* R. V. Dietrich. 1970 **7**:315
- Minerals of Washington.* Bart Cannon. 1975 **8**:416
- Mineral Tables: Hand Specimen Properties of 1500 Minerals.* R. V. Dietrich. 1969 **1**:82
- Miners' Open-flame Lamps: Oil Lamps, Grease Lamps, and Candle Lamps.* Karsten Porezag. 1982 **13**:176
- Mines et Minéraux de Alpes Maritimes.* D. & G. Mari. 1982 **19**:126
- Mines et Minéraux de la Provence Crystalline.* D. & G. Mari. 1982 **19**:126
- Miniera di Traversella e i Suoi Minerali, La* (Quaderno #10). Roberto Torti. 1973 **20**:490
- Mining Lore.* Wolfgang Paul. 1970 (review and excerpts) **12**:113–115
- Molecular and Crystal Structure Models.* Anne Walton. 1978 **11**:50
- Monteregian Treasures.* J. A. Mandarino & V. Anderson. 1989 **20**:401
- Moon Rocks and Minerals.* Alfred A. Levinson & S. Ross Taylor. 1971 **3**:124
- Most-recommended mineral reference books (47 titles): **9**:6–13; letters **9**:270–271
- Murphy's Law and other Reasons Why Things Go Wrong!* Arthur Bloch. 1977 **9**:383–384
- Museos Españoles de Minerales.* E. L. Gomez, B. C. Perez, & A. H. Rodriguez. 1990 **23**:503
- Natural Zeolites.* Glauco Cottardi & Ermanno Galli. 1985 **17**:143
- Nature of Solids, The.* Alan Holden. 1965 **1**:129
- Nature of the Stratigraphic Record, The.* Derek V. Ager. 2nd ed., 1981 **13**:175
- Natürliche und Synthetische Rubine.* Karl Schmetzer. 198(?) **19**:125–126
- (Nearly) Complete Bottom-Guide for Carbide Cap Lamps, The. Wendell E. Wilson. 1981 **13**:176
- Neues Hobby, Ein: Kleinmineralien.* Alex Kipfer. (no year) **6**:151
- Nonparametric Geostatistics.* Stephen Henley. 1981 **13**:175
- Nostrì Minerali: geologia e mineralogia in Liguria.* I. M. Antonfili, E. Borgo, & A. Palenzona. 1983 **19**:126, **20**:490
- Oddities of the Mineral World.* William B. Sanborn. 1976 **8**:416–417
- Old Metal Mines of Mid-Wales, The.* Part 1: Cardiganshire—South of Devil's Bridge (1974); Part 2: Cardiganshire—The Rheidol to Gonigan (1975); Part 3: Cardiganshire—North of Gonigan (1976). David E. Bick. **7**:317
- Opal, South Australia's Gemstone.* L. C. Barnes & I. J. Townsend. 1982 **14**:60
- Optischen Instrumente der Firma R. Fuess, Die.* C. Leiss. 1988 **20**:150
- Origin of Agates, Thundereggs and Other Nodular Structures, The.* Benjamin M. Shaub. 1989 **21**:498
- Origins of the Science of Crystals.* John G. Burke. 1966 **1**:129
- Pegmatitele din Carpatii Meridionali.* H. P. Hann. 1987 **19**:340
- Phosphate Minerals of Victoria.* W. D. Birch & D. A. Henry. 1993 **25**:305
- Photo Atlas of Inclusions in Gemstones.* E. J. Gubelin & J. I. Koivula. 1986 **19**:125
- Pikes Peak Gold.* Fred & Jo Mazzula. 2nd ed., 1986 **18**:4
- Principles of Crystal Structure Determination.* G. B. Carpenter. 1969 **2**:280
- Principles of Geochemistry.* Brian Mason & Carleton B. Moore. 1982 **14**:60
- Proctor Collection, The.* (videotape) 1988 **23**:504
- Quarz: die Eigenheiten von Bergkristall, Rauchquarz, Amethyst und anderen Varietäten.* Rudolf Rykart. 1989 **20**:490
- Quest for New Jersey Minerals.* Robert Speiser. (no year) **9**:384
- Revised and Expanded Dana Classification for Phosphates, Arsenates, and Vanadates.* A. James A. Ferraiolo & Curt G. Segeler. 1977 **9**:123
- Rock and Mineral Analysis.* Wesley M. Johnson & John A. Maxwell. 2nd ed., 1981 **13**:175
- Rock-forming Minerals, vol. 2A, single-chain silicates.* W. A. Deer, R. A. Howie, & J. Zussman. 1978 **11**:50–51
- Rocks and Minerals.* Joel Arem. 1973 **4**:144–145
- Rocks and Minerals.* Lou W. Page. 1962 **2**:228
- Rocks and Minerals.* Richard M. Pearl. 1956 **2**:87
- Safrirul si Rubinul.* Octavian Birau, Andamaria Ciuhandu, & Dorina Andru Vangheli. 1986 **19**:340
- Salzburg Mineralogical Handbook.* Albert Strasser. (no year) **9**:256
- Sardegna e i Suoi Minerali, La.* A. Pietracaprina & G. Brizzi. (no year) **19**:340
- Schauinsland: Geschichte, Geologie, Mineralien, Der.* B. Steiber. 1986 **19**:126
- Science of Minerals in the Age of Jefferson, The.* John C. Greene & John G. Burke. 1978 **10**:314
- Secrets in Stones.* Rose Wyler & Gerald Ames. 1970 **2**:229
- SEM Petrology Atlas, The.* (letter) Joann E. Welton. 1984 **22**:312
- Silver from Kongsberg.* Ole Johnson. 1987 **19**:340
- Smaragd; Grünes Feuer unterm Eis.* Gunter Grundmann. 1991 **23**:504
- Story of Fluorescence, The.* Raytech Equipment Co. 1965 **1**:82
- Structure-Property Relations.* Robert E. Newnham. 1975 **7**:318
- Studio Handbook of Minerals, The.* Hellmuth Boegel (John Sinkankas, ed.). 1971 **4**:45
- Südtirol: Bergwerke, Höhlen, Heilquellen.* Herbert Kuntscher. 1990 **23**:413b
- Systematic Classification of the Nonsilicate Minerals.* James A. Ferraiolo. 1982: **14**:59–60; update published **18**:322
- System of Mineral Collecting.* A. Joseph W. Pfeifer. 1991 **23**:411
- Tsumeb, a Historical Sketch.* G. Sohngé. 1967 **5**:91–93
- Tsumeb, eine deutsches-afrikanische Geschichte.* Gerog Gebhard. 1991 **23**:412
- Tucson Experience, The: World's Largest Gem and Mineral Shows.* (videotape) 1992 **23**:503
- Turmaline, Der: eine Monographie.* Friedrich Benesch. 1990 **23**:412
- Über die Erzlagerstätten des Harzes.* Conrad Blömeke. 1986 **19**:340
- Use of Earth Sciences Literature.* D. N. Wood, ed. 1973 **5**:193–194
- Visitant le Grande Collections Mineralogiques Mondiales, En.* Claude Guillemin & Jean Mantiène. 1988 **20**:149
- Wakabayashi Mineral Collection, The.* R. Sadanaga & M. Bunno. 1974 **6**:210–211
- What's so Funny About Science?* Sidney Harris. 1978 **9**:257
- Wonders of Stones.* Christie Mcfall. 1970 **3**:41–42
- World Gold Deposits: A Quantitative Classification.* J. J. Bache. (no year) **19**:75
- World of Minerals, The.* Vincenzo de Michele. 1972 **4**:145–146
- World of Minerals Through Postage Stamps, The.* Jean-Michel Autissier. 1987 **19**:205
- World's Finest Minerals and Crystals.* Peter Bancroft. 1973 **5**:93
- World Treasury of Minerals in Color; Le Monde Merveilleux des Minéraux.* Pierre Bariand; Nelly Bariand, photographer. 1976 **7**:317–318
- X-Ray Crystallography.* R. W. James. 1953 **1**:130
- X-ray Data for Minerals.* J. J. Finney, Gobel Volker, & Henry Briceno. 1974 **5**:95
- Zauberwelt der Mineralien.* Harry Wilk; photos by Olaf Medenbach. 1977 **9**:256
- Zeolites of the World.* Rudy Tchernich. 1992 **23**:410–411
- Zeolites of Victoria.* W. D. Birch, ed. 1989 **21**:497

### BOOTHITE

#### United States

##### Arizona

Grand Reef mine, Graham County (tentative id) **11**:225

### BORACITE

#### England

##### North Yorkshire

Boulby mine: **25**:138p, **25**:140n; crystals to 5 mm **25**:61c, **25**:63p; cuboctahedral to 2 mm **23**:434

### BORAX

Forestalling dehydration **6**:88

Toxicity **11**:6

World boron deposits and production **3**:165–172, **3**:213–220

#### United States

##### California

Kramer deposit, Boron, Kern County (euhedral to 10 cm, altered to tinalconite) **6**:87–88p

Searles Lake (euhedral to 4 cm) **6**:74d, **6**:76c

### BORNITE

#### Australia

##### Queensland

Mt. Oxide mine **19**:(485)

##### South Australia

Hamley mines, Moonta district **19**:412

Walleroo mines **19**:413

#### Austria

Frossnitzalpe, East Tyrol: **20**:483; large crystals **17**:106n, **17**:109p

#### Brazil

##### Minas Gerais

Énio pegmatite, near Galiléia (in polished sections) **12**:69n

## GENERAL INDEX

### Canada

- British Columbia
  - Diorite group, southwest of Hazelton **2**:206–207
  - Mt. Washington mine, Vancouver Island (massive) **15**:90n
  - Rocher Déboulé mine, near Hazelton (massive) **15**:91n
- Northwest Territories
  - Port Radium **20**:(203)
- Ontario
  - Mamainse Point mines (cubic micro crystals) **13**:107, **13**:108p

### Chile

- Chuquicamata (cubic crystals) **9**:323

### China

- Hengyang, Hunan province **20**:(69)

### England

- Cornwall
  - Botallack district (formerly “erubescite”) **24**:279

### Germany

- Rheinland-Pfalz
  - Angelika mine, Nieder-Beerbach **17**:(7)

### Italy

- Tuscany
  - Carrara region (masses, with digenite) **18**:268–269

### Kazakhstan (formerly USSR)

- Dzhezkazgan: **20**:398; octahedral to 3 cm **25**:217p, **25**:218; 2 cm crystals **23**:280n; 2 cm dodecahedral **25**:381n

### Namibia

- Tsumeb **8**:T20, **8**:T83p

### South Africa

- Transvaal
  - Messina district (massive) **22**:196

### United States

- Arizona
  - Bisbee district **12**:294
  - Campbell shaft, Bisbee district (1000-ton masses) **12**:294
  - Cole shaft, Bisbee district (crystals to 2 cm) **12**:294
  - Junction shafts, Bisbee district (100-ton masses) **12**:294
  - Magma mine, Pinal County (1 cm crystals) **14**:76
  - New Cornelia mine, Pima County (massive veins) **14**:294
  - 79 mine (in polished section) **3**:264
- California
  - Hale Creek mine, Trinity County **18**:(347)
  - Jensen quarry, Riverside County **15**:287n
  - Monitor-Mogul district, Alpine County (in polished sections) **22**:36
  - Thompson mine, Inyo County (massive) **15**:13n
- Colorado
  - New Star mine, Italian Mountain area, Gunnison County **15**:86n
  - Silverton district, San Juan County **10**:358n, **23**:424n
  - Sweet Home (Home Sweet Home) mine, Park County (anhedral) **10**:337
- Michigan
  - Keweenaw Peninsula (numerous localities) **23**:M53
  - Ropes mine, Marquette County **17**:120n
- Nevada
  - Killie mine, Elko County **18**:416
  - Majuba Hill mine **16**:(62)
- New Jersey
  - Chimney Rock quarry, Somerset County (massive) **9**:28
  - Planten Avenue quarry, Passaic County: massive **17**:129n; with wire silver **17**:408

- Prospect Park quarry, Passaic County **9**:172–173
- Sterling mine (massive) **25**:98
- New Mexico
  - Hansonburg district, Socorro County **20**:(35)
  - Magdalena district, Socorro County **20**:(18)
- Pennsylvania
  - French Creek mine, Chester County (massive; coating calcite) **25**:112
- Virginia
  - Fairfax quarry, Fairfax County (poss. after chalcocopyrite, to 8 cm) **3**:177–178

### Zaire

- Mashamba mine **20**:146
- Shinkolobwe mine **20**:(276)

### BORON MINERALOGY

- See also names of species*
- Early exploration **4**:272–274
- Geology of deposits **3**:213–220
- Kramer deposit, Boron, CA **6**:84–91, **19**:315–318
- Ores, uses, distribution **3**:165–172

### BOSNIA-HERZEGOVINA

- Formerly Yugoslavia*
- Sarajevo **22**:393s
- Zagradski Creek, near Busovaka **16**:306s

### BOTALLACKITE

#### England

- Cornwall
  - Wheal Cock, near St. Just **24**:279h

#### United States

- Arizona
  - Campbell shaft, Bisbee (tabular) **24**:428n

### BOTRYOGEN

#### Australia

- Queensland
  - Mt. Isa mine (some crystals) **19**:478

#### Chile

- Chuquicamata, Antofagasto **9**:329
- Quetena mine, Antofagasto (“quetenite”) **14**:356

#### Italy

- Liguria
  - Libiola mine, Genova (3.5 cm doubly terminated crystal) **25**:215

#### United States

- Arizona
  - Campbell shaft, Bisbee district (post-mining crust) **12**:294
- California
  - Stayton mine, Stayton district **20**:432

### BOTSWANA

- Mkarikari **18**:193s

### BOULANGERITE

#### Australia

- Northern Territory
  - Mt. Bonnie mine **19**:(444)
- Queensland
  - Mt. Isa mine (some in quartz) **19**:478p

#### Bolivia

- San José and Itos mines, Oruro district (felted) **6**:133

#### Canada

- British Columbia
  - Sunrise group (fibrous) **2**:205
- Ontario
  - Rogers Fluorspar mine, near Madoc: **13**:111p; micro helix **1**:111, **1**:112p; micro ring in calcite **24**:311n, **24**:313p; micro rings **1**:108–109p; micro rings, cylinders **10**:298n, **13**:89, **13**:91c
  - Taylor farm, near Madoc **13**:(80)

#### Czech Republic (formerly Czechoslovakia)

- Bohutín district, Příbram ore field (fibrous) **12**:162n,p
- Příbram (15 x 12 cm specimen) **22**:461p

### France

- Les Farges mine, Corrèze **13**:(267)
- Saint-Pons (near), Haute-Provence (acicular) **24**:41

### Greece

- Kamaréza mine, Laurium **25**:279

### Italy

- Tuscany
  - Carrara region **18**:278
  - Niccioleta mine **10**:284

### Mexico

- Zacatecas
  - Noche Buena (acicular “jamesonite” id as) **2**:187–188

### Peru

- Mimosa mine, Julcani district (massive) **5**:218

### Serbia (formerly Yugoslavia)

- Trepča **20**:(152); hairs to 30 cm in vugs **4**:60n,p

### United States

- California
  - Kalkar quarry, Santa Cruz County **17**:321
- Colorado
  - Brobdignag prospect, San Juan County **7**:275n
  - Silverton district, San Juan County **10**:358n
- Idaho
  - Bunker Hill mine (films, stringers, needles) **12**:341
- Wisconsin
  - Rib Mountain, Marathon County (in quartz) **12**:95

### BOURNONITE

#### Australia

- New South Wales
  - Broken Hill **19**:424n
- Queensland
  - Mt. Isa mine **19**:478–479p
- Victoria
  - A1 mine, Walhalla-Woods Point belt **18**:28
  - Glen Wills **18**:(28)
  - Steiglitz **18**:(28)

#### Bolivia

- La Colorada mine, Oruro district (untwinned) **6**:133

#### Czech Republic (formerly Czechoslovakia)

- Bohutín district, Příbram ore field **12**:159p,d

#### China

- Chenzhou, Hunan: **21**:(488); 2 cm crystals **25**:140n
- Hengyang, Hunan **20**:236

#### England

- Cornwall
  - Herodsfoot mine (2–3 cm cogwheels) **21**:97n

#### France

- Les Farges mine, near Ussel, Corrèze **13**:(267)
- Les Malines mine, Saint Laurent le Minier, Gard (cogwheels to 10 cm) **23**:431p, **23**:434
- Mine de la Mure, Isère **20**:483
- Saint-Pons (near), Haute-Provence (prismatic to 6 mm) **24**:42

#### Germany

- Rheinland-Pfalz
  - Friedrichsseggen mine **15**:(342)
- Siegerland
  - Georg mine **18**:356n, **19**:121n
  - Horhausen (5.5 cm specimen) **8**:40p

#### Italy

- Tuscany
  - Buca della Vena mine (bourmonite-seligmannite) **17**:264
  - Calagio quarries, Carrara region **18**:274
  - Carrara region (seligmannite-bourmonite; four-fold twins) **18**:274–275c,d
  - Fantiscritti quarry, Carrara region **18**:274–275p,q

#### Mexico

- Chihuahua
  - Naica (crystals to 25 mm) **14**:385n

- Zacatecas  
Noche Buena mine (micro; id confirmed) **5:236q**
- Peru**  
Casapalca: **18:(368)**; crystals to 1 cm **5:38c,d**  
Herminia and Mercedes mines, Julcani district **5:218n, 5:219p**  
Huancavelica (crystals to 4 cm) **9:36n**  
La Oroya, Lima: **15:43p**; locality corrected to Quiruvilca, La Libertad **15:249**  
Pachapaqui mine, Ancash Dept. (some id as seligmannite) **21:490**  
Puca Raju mine (sharp cogwheels) **21:250n**  
Quiruvilca **21:257n**
- Romania**  
Baia Mare (formerly Nagybánya), Maramureş district **13:(371)**  
Maramureş district **13:371–374**
- Serbia (formerly Yugoslavia)**  
Trepča **4:60, 18:(368), 21:(250)**
- Spain**  
Hiendelaencina district, Guadalajara (fine crystals) **23:245**
- United States**  
Arizona  
Cochise County, Bisbee district (unconfirmed) **12:(315)**  
Colorado  
San Juan Mountains **10:358n**  
Idaho  
Bunker Hill mine (masses, minute crystals) **12:341**  
Nevada  
Little Gem mine, Lander County (cm-size crystals) **22:383n**
- 
- BOUSSINGAULTITE**
- United States**  
California  
Coso Hot Springs, Inyo County **9:(113)**  
Geysers, The, Sonoma County (some chromian and cuprian) **24:349p**
- 
- BRANDTITE**
- South Africa**  
Cape Province  
Wessels mine **22:480**
- Sweden**  
Harstig, Värmland **8:(517), 22:(49)**
- United States**  
New Jersey  
Sterling Hill mine (clear needles, blades) **13:36**
- 
- BRANNERITE**
- Australia**  
Queensland  
Mt. Isa-Cloncurry district **19:(474)**
- Austria**  
Mitterberg mine, Hochkönig, Salzburg **17:(110)**
- United States**  
Colorado  
Mt. Antero, Chaffee County (crystals to 1.5 cm) **23:47n**
- 
- BRANNOCKITE**
- United States**  
North Carolina  
Foote mine: **4:275p**; formerly UK#7 **4:138n**  
Lithium Corporation of America spodumene mine, near Bessemer City **4:275**
- 
- BRASILIANITE**
- See Brazilianite*
- 
- BRAUNITE**
- Mexico**  
Nuevo Leon  
Monterrey (north of) (micro crystals) **18:367n**
- South Africa**  
Cape Province  
Black Rock mine: ferroan, “braunite-II” **9:151**; 1.5 cm crystal **22:282p**  
Kalahari manganese field: **9:151**; euhedral to 2 cm **22:282**
- United States**  
Arizona  
Higgins mine, Bisbee district **12:294**  
White-Tailed Deer shaft, Bisbee: braunite-II in braunite **24:428n**; crystals to 2.5 cm **12:294–295**  
California  
Palos Verdes Hills, Los Angeles County (micro crystals) **4:290–293c,q,d**  
Michigan  
Manganese mine, Keweenaw County **14:225, 23:M53**
- 
- “BRAVOITE”
- See Pyrite*
- 
- BRAZIL**
- Note: For Lavra da/do \_\_\_\_, see \_\_\_\_ mine*  
Allan Caplan, experiences in Brazil **11:351–360**  
Brazil: *Paradise of Gemstones* **15:311b**  
Diamond deposits **20:325–336m,p,g,h**  
Itatiaçu **20:394s**  
Lead-zinc localities **6:282–291**  
Martin Ehrmann expeditions to **25:357–360**  
São Felix do Xingu prospect, Amazon Basin **6:285s**
- Bahia**  
Açude Socêgo (Nôzinho), Anagé Township, northwest of Vitória da Conquista **8:382m, 8:384**  
Agreste prospect **20:465–466m,s**  
Baixa da Brauna farm, east of Santa Rosa, southwest of Brumado **8:382–383m,g**  
Bananeiras prospect **20:466m,s**  
Bom Jesus das Meiras (see Brumado)  
Boquira mine, near Oliveira do Brejinho **6:282–291m**  
Brejinho farm, southwest of Boa Nova, northeast of Vitória da Conquista **8:382m, 8:384–385**  
Brejo de Santa Tereza, near Paramirim **16:113n**  
Brumado (formerly Bom Jesus das Meiras): **9:196–205p,m,h,g, 10:55g, 13:33s, 14:173s, 15:177s, 18:244s, 19:115s, 19:209–210s, 19:335s, 20:394s, 21:256s, 23:276s, 23:432s, 23:497s, 24:384s, 25:215s**; see also Brazil—Bahia—Pedra Preta mine  
Cachoeira **2:10s**  
Campo Formoso, near Carniaba emerald mine **11:316s**  
Capim Grosso **22:387s**  
Chapada Diamantina region **16:111g, 20:330m, 20:333**  
Coruja mine, southwest of Cordeiros **8:328m, 8:386–387**  
Cruzeiro open pit, Boquira mine, near Oliveira do Brejinho **6:282–291m**  
Fazenda Recruta, northwest of Vitoria da Conquista **4:264–266m,p,g**  
Ibitiara **2:12s, 20:465–467m,s, 21:96–97s, 23:276s**  
Ibitiara iron mines **23:432s**  
Itabira **20:394s**  
Jaquetô (near), Medeiros Netos County **18:246s, 20:394s, 22:216s, 22:387s**  
Jatobá deposit, Brumado district **9:197–199ff,m,h**  
Joanina mine, northeast of Joanina, west of Vitória da Conquista **8:382m, 8:387**  
Lagedinho, south of Vitória da Conquista **8:382m, 8:384**
- Medeiros Neto **24:385s**  
Morro do Chapéu prospect, southeast of Paramirim das Crioulas **16:111–113g,p**  
Nôzinho (see Açude Socêgo)  
Pedra do Ferro prospect, Brumado district **9:201**  
Pedra Preta mine, north of Brumado **7:129–130h,g, 9:196–199ff,p,m,h, 14:179–181**  
Pirajá deposit, Brumado district **9:197–199ff,m,h, 9:202p**  
Pomba pit, Brumado **20:394s, 22:387s**  
Pombo farm, Anagé Township, northwest of Vitória da Conquista **8:382m, 8:384**  
Praça São Paulo prospect, west of Pirajá deposit, Brumado district **9:203**  
Quartzo Róseo, southwest of Vitória da Conquista **8:382m, 8:385**  
San Anônio, Serra do Ramalho district **6:282m, 6:283s**  
Santa Rosa **11:317s**  
São Felix do Amianot mine, northwest of Poçoões **8:382m, 8:383**  
São Francisco prospect **20:466–467m,s**  
Serra das Eguas, Brumado **2:13s**  
Serra do Porco Gordo prospect, north-northeast of Livramento do Brumado **16:113g**  
Serra do Ramalho district **6:282m, 6:283s**  
Serra Negra, Baixo **22:387s**  
Serro do Fogo do Caetano prospects **20:465–467m,s**  
Sinacorá **20:328s**  
Socotó emerald deposit, northwest of Salvador **16:108g,h**  
Tapero do Rochedo, head of Córrego Tamboril, east of Cordeiros **8:382m, 8:383–384**  
Teixeira de Freitas **23:280s, 24:230s**  
Vitória da Conquista area **8:382–387m,g, 11:14s**
- Ceará**  
Chapado do Araripe **6:282m, 6:287s**
- Espirito Santo**  
Itaguaçu **11:357–359h**  
Mimosa (near) **17:149–150s**  
Mimoso (Mimeso) do Sul **21:488s, 23:276h, 23:432s**  
Pancas **21:250–251s**  
Tancredo, Santa Teresa **2:10s**
- Goias**  
Alta Paraguai **20:335**  
Arenópolis **20:335**  
Diamantino **20:334**  
Mato Grosso **20:330m, 20:334–335**  
Nortelândia **20:335**  
Pôrto Maranhão **6:282m, 6:286s**  
Poxoreú **20:335**  
Santa Terra **18:433s**
- Minas Gerais**  
Água Boa **18:148s**  
Água Quente, Rio Pardo de Minas **2:12s**  
Alagadiço, Quilombo, northeast of Capelinha **5:225m, 5:226, 5:229g**  
Aldeia do Eme mine (see Zé Pinto prospect)  
Almerindo mine, Linópolis **24:384–385s**  
Alto da Raposa, Vazante area, near Paracatu **6:284s, 6:290**  
Americana, Teófilo Otoni **2:10s**  
Antônio Machado farm, near Linópolis **14:230m, 14:236**  
Araçuaí area pegmatites **12:73–75g, 20:394s**  
Bahiano mine, near Linópolis **14:230m, 14:236**  
Baixo, Guandu **24:230s**  
Barra do Salinas **24:49s**  
Barra do Salinas, Coronel Murta **19:335s, 21:256s, 21:488s, 22:216s, 22:387s**  
Barreiro, Itinga **2:10s**  
Barro Preto, Fazenda Tabatinga, northeast of São José do Jacuri **5:224m, 5:229g**  
Belo Horizonte (iron mine near) **24:384s, 24:385s**

## GENERAL INDEX

- Boa Esperança prospect, Divino das Laranjeiras **20**:187p,c
- Boa Vista (see Énio mine)
- Boca Rica **23**:497s
- Brazilianite mine, near Linópolis (see João Modesto dos Santos mine)
- Buenópolis **17**:339s, **18**:365s
- Cajiu mine, Almenara **19**:335s
- Camp de Timoteo, Cidade Jaguaraçu **13**:51s
- Campo do Boa, northwest of Capelinha, Capelinha County **5**:224–226h,m,g
- Campolina mine (Campolina farm), near Medina **18**:244s, **18**:365s
- Capelinha **2**:12s
- Capelinha-Malacacheta region (six localities) **5**:224–232m
- Casa de Pedra, Congonhas do Campo **2**:12s
- Caxambú mine, Rodrigo Silva, Ouro Preto region, Minas Gerais **2**:12s
- Cedro farm **6**:286
- Companhia Estanífera mine, Itinga **2**:10s
- Congonhas do Campo, Ouro Preto region **20**:160–161s
- Conselheiro Pena district **18**:148s, **18**:244s, **18**:245s, **21**:488s, **22**:387s, **24**:385s
- Corinto **19**:335s
- Coronel Murta (near) **17**:406s, **20**:394s
- Córrego Bom Sucesso, near Serro, east-north-east of Belo Horizonte **23**:471–474h,p,g
- Córrego do Urucum pegmatite, near Galiléia **4**:275–276, **7**:221, **17**:307–314m,g,h, **19**:335s, **22**:387s
- Córrego Frio mine and vicinity, Divino, near Linópolis **2**:12s, **2**:149h, **4**:113s, **4**:114s, **14**:227–237h,p,m,g, **17**:295s
- Córrego Indaiá, near Linópolis **14**:230m, **14**:236
- Córrego Setuba, Fazenda Honório Benedito, northwest of Malacacheta **5**:225m, **5**:231–232g
- Criminoso mine, near São Jose da Safira **10**:147–151h,s
- Cruzeiro district **22**:216s
- Cruzeiro mine, Santa Maria do Suaçui Township, Poaiá district **3**:65s, **11**:363–367, **11**:370g,p,m,h, **17**:151s, **18**:365s, **19**:335s, **22**:387s
- Cruzeiro quarry, São Jose da Safira **22**:387s
- Cuité, Figueiras **2**:12s
- Diamantina **2**:12s, **20**:330m, **20**:331–333
- Difficulties with locality names **1**:73, **1**:86
- Divina das Laranjeiras **19**:335s, **20**:187–188g
- Divino das Laranjeiras **24**:384s
- Divino de Ubá, Ubá **2**:12s
- Énio mine (Fazenda Boa Vista, Boa Vista, Fazenda Laranjeiras), northeast of Galiléia **12**:67–72mp,g,h
- Faustino Lopes mine, near Linópolis **14**:228m, **14**:236
- Fazenda Boa Vista (see Énio mine)
- Fazenda do Bananal, Salinas **2**:12s
- Fazenda do Funil pegmatite, north of Santa Maria do Itabira **11**:356–357h,p, **20**:354s
- Fazenda Gramiais, northwest of Rubilita **5**:225m, **5**:230–231g
- Fazenda Guariba, Presidente Kubitschek, Diamantina area **17**:191–195m,g,p, **25**:133–135s
- Fazenda Laranjaeiras (see Énio mine)
- Fazenda Modelo, Serro **2**:12s
- Fazenda Santa Elisa prospect (see Zé Pinto prospect)
- Fazenda Tabatinga, northeast of São José do Jacuri **5**:224m, **5**:229–230g
- Fernando quarry, Mimoso do Sul **22**:387s
- Ferros **2**:12s
- Figueira, Peçanha **2**:10s, **2**:11m
- Fortaleza (now Pedra Azul)
- Fundão City, Espírito Santo **25**:60s
- Furquim, Mariana **2**:12s
- Galiléia **20**:394s, **21**:253s, **24**:49s; unnamed pegmatite(s) near **9**:41g, **9**:316s
- Genipapo mine, Aracuai district **17**:151s, **19**:335s
- Geraldo Candinho mine, near Linópolis **14**:228m, **14**:236
- Germinal, São João del Rey **2**:12s
- Gilbués, Piauí **20**:335
- Golconda mine, near Governador Valadares **10**:9–10s, **10**:251, **18**:365s, **24**:49s, **24**:222s
- Gouveia **2**:12s, **21**:487s
- Governador Valadares (near) **18**:148s, **23**:432s
- Grão Mogol, Diamantina **20**:332–333p
- Grande mine, Itacarambi district **6**:286s, **6**:287s
- Guide to numerous localities **2**:10–13
- Hapecerica (near) **24**:49s
- Hermes mine, near Linópolis **14**:228m, **14**:236
- Ilha mine, Jequitinhonha River, near Taquaral: **4**:207–213p,g,m, **12**:74, **19**:120s, **20**:394s, **21**:413–414g, **21**:418–422g; pump story **23**:439–440h
- Imbiruçu, Diamantina area **17**:191s
- Inferior mine, near Linópolis (see João Modesto dos Santos mine)
- Invreja mine, Marambainha (near Marambaia) **17**:149–150s
- Ismael mine, Ouro Preto region **20**:222m, **20**:232s
- Itabira **9**:40s, **17**:339s, **22**:216s, **22**:387s
- Itacarambi area **6**:282–291m
- Itatiaia mine, east of Conselheiro Pena (see Jonas mine)
- Itinga **17**:151s, **19**:117s
- Jabuti mine, Baixo, Galiléia **9**:14–18h,s
- Jaguaraçu (Jaguaraçu) mine, near Jaguaraçu, east of Belo Horizonte **12**:181s, **12**:183s, **25**:165–170m,h,p,g
- Januaria area **6**:282–291m
- Jequitinhonha River, north of Taquaral **1**:12s
- João Belmiro farm, near Linópolis **14**:230m, **14**:236
- João Modesto dos Santos mine, near Linópolis **14**:230m, **14**:233
- Joel mine, Serra do Parela **6**:282s
- Jonas mine, Itatiaia district, east of Conselheiro Pena **9**:298–299h,s, **9**:317h, **9**:367–368s, **10**:33–34p,h, **10**:121h, **11**:317h, **12**:183s, **13**:51s,h, **16**:337–338h, **16**:344–345s, **19**:214s
- José da Silva prospect, near Rio Piauí bridge, Araçuai area **12**:74
- José Pinto mine (see Zé Pinto prospect)
- Jove Lauriano (Juvenil, Joveni, Joventino) mine, Divina das Laranjeiras, near Linópolis **14**:228m, **14**:235, **20**:187–188g
- Laranjeiras mine (pegmatite do Ademar), Taquaral district **11**:377–379m,g,h
- Lavrinha **20**:146s
- Limoeiro (Limoeiro de Baixo) mine, near Virgem da Lapa **7**:41h, **13**:23–24g
- Linópolis: **10**:179–180s, **11**:317s, **12**:183s, **19**:335s, **20**:394s, **21**:253s, **21**:488s, **23**:432s, **25**:60s; see also Brazil—Minas Gerais—Córrego Frio mine
- Localities not specified **20**:187s, **20**:330m, **20**:331–334, **20**:335s
- Mãe dos Homes, Capelinha **2**:12s
- Macaubas farm **6**:282m, **6**:287s
- Malacacheta (near), Malacacheta County **13**:181s, **15**:166s, **21**:253s, **21**:488s
- Mantena, Galiléia **19**:210s, **21**:488s, **24**:311s
- Marilac, north of Governador Valadares **10**:251, **12**:389s
- Matagrande farm, near Belo Horizonte **6**:282m, **6**:286s
- Mina Chia, near Linópolis **22**:217s
- Minas Novas **17**:207s
- Marambaia mine **7**:215–216s
- Miudos mine, Curralinho, Diamantina area **17**:191s
- Montezuma mine, Tabua farm, Rio Pardo de Minas Township **8**:382m, **8**:385–386
- Moraes mine, Boa Vista, Ouro Preto region, Minas Gerais **2**:12s
- Morro Agudo pegmatite, São Miguel de Piracicaba deposit, east of Belo Horizonte **16**:107–108h,g
- Morro da Mina, Conselheiro Lafaiete **2**:12s
- Morro da Pinguieira, Serra do Parela **6**:284s
- Morro do Bule prospect, near Capão da Lana **6**:281–290
- Morro do Caxambu mine, Ouro Preto region **20**:232s
- Morro do Cruzeiro mine, near Linópolis (see Pamaró mine)
- Morro do Velasco, Vazante area, near Paracatu **6**:284s
- Morro Redondo, Coronel Murta **23**:85s
- Morro Redondo mine, near Virgem da Lapa **7**:41h
- Morro Velho mine, south of Belo Horizonte, Nova Lima **2**:10s, **4**:224–229h,g, **13**:51s, **15**:166s, **17**:138–140s, **19**:199–200s
- Natino mine, near Governador Valadares **17**:151s
- Olho D'água mine, Itinga **2**:10s, **2**:12s
- Ouro Preto district **2**:12s, **15**:43s, **20**:221–233m,p,g,h
- Padre Paraíso **23**:432s
- Padre Piedade **22**:387s
- Paiolinho, Tapira **2**:10s
- Palmital, near Conselheiro Pena (aquamarine) **11**:359h
- Pamaró (Pamarol, Pamaroli, Morro do Cruzeiro) mine, near Linópolis **14**:228m, **14**:234–235
- Pará **20**:335
- Paraná **20**:335
- Pederneira, Governador Valadares **25**:50s
- Pederneira mine **24**:49s, **24**:384s
- Pederneira mine, Município de Agua Boa **17**:406s
- Pederneira mine, Santa Maria do Suaçui **22**:387s
- Pedra Alta mine, Baxio **21**:487s
- Pedra Alta mine, Conselheiro Pena **19**:335s, **20**:394s
- Pedra Azul (formerly Fortaleza) **11**:353h
- Pedra Redonda **19**:335s, **20**:394s
- Pedreira Atalaia, Pico do Ibituruna **22**:217s
- Pegmatite do Ademar (see Laranjeiras mine)
- Pica Pau beryl deposit, south-southeast of Padre Paraíso **16**:109g
- Pitorra mine, Sierra da Piorra range, east of Galiléia **21**:97s, **21**:256s, **21**:409–412m,h,g
- Portão mine, near Linópolis **14**:222m, **14**:236
- Presidente Bueno, Rio Doce valley **2**:12s
- Pro-Beryl mine, Sapucaia, Conselheiro Pena **2**:10s, **2**:12s
- Quilombo, northeast of Capelinha **5**:225m, **5**:226, **5**:229g
- Regal mine, near Araçuai **21**:97s
- Resplendor **20**:69s, **20**:394s, **21**:97s, **21**:253s, **21**:487s, **24**:49s, **24**:395s
- Riacho das Varas, Diamantina area **17**:191s
- Rio Cipó, Diamantina area **17**:191s
- Roraima **20**:335
- Sabinópolis **19**:335s
- Sacramento **2**:12s
- Salinas **19**:335s
- Sandspar's mines, Taquaral, Itinga **2**:10s
- San José de Safira **24**:49s
- San Miguel de Piracicaba **11**:317s
- Santa Maria, Cruzeiro Novo **2**:20s
- Santa Maria do Itabira mine, Santa Maria do Itabira City **23**:432s, **25**:381s
- Santa Quitéria, Diamantina area **17**:191s
- Santa Rosa area **17**:150s, **18**:365s

- Santa Rosa mine **12:189h, 20:237s**  
 Santo do Encoberto, São Sebastião do Maranhão County **5:226g**  
 São Jose da Safira **22:387s**  
 São Miguel de Piracicaba deposit, east of Belo Horizonte **2:12s, 16:107–108h,g**  
 São Pedro mine, near Suaçui, Malacacheta district, near Teófilo Otoni **24:49s**  
 Sapucaia mine, Sapucaia, near Divino das Laregeiras, Governador Valadares **2:149–150h, 4:108g, 4:113s, 4:121s, 4:122s, 14:174s, 18:365s, 21:97h**  
 Sebastião Cristino mine, near Linópolis **14:228m, 14:235–236**  
 Serra do Ouro Podre, Vazante area, near Paracatu **6:282–291m**  
 Serra do Parelá **6:282–291m**  
 Serra do Urucum mine, Galiléia **2:10s**  
 Serro **19:335s, 23:432s**  
 Sete Voltas, Fazenda Tabatinga, northeast of São José do Jacuri **5:224m, 5:230g**  
 Sketch map of pegmatite region **2:11m**  
 Talho Aberto pegmatite, São Miguel de Piracicaba deposit, east of Belo Horizonte **16:107–108h,g**  
 Tapira **2:12s**  
 Taquaral, Itinga **2:12s, 3:14h,s, 4:116s, 5:4s, 8:517s, 11:29s, 17:151s, 24:49s**  
 Taveres quarry, near Linópolis **22:387s**  
 Tejuca mine, Diamantina **2:12s**  
 Telfrio mine, near Linópolis **14:228m, 14:233–234**  
 Teófilo Otoni **2:10s, 2:11m**  
 Tim mine (see Córrego do Urucum)  
 Toca da Onça mine, near Virgem da Lapa **13:25**  
 Tres Barras **7:216s**  
 Triângulo Mineiro, Diamantina **20:333–334**  
 Trino mine, Rodrigo Silva, Ouro Preto region, Minas Gerais **2:12s**  
 Urubu pegmatite, near Araçuaí **12:73–77m,p,g, 20:188**  
 Urucum pegmatite (see Córrego do Urucum)  
 Urupuca quarry, Governador Valadares **1:86h, 2:12s**  
 Vargeas, Diamantina area **17:191s**  
 Vazante mine, near Paracatu **6:282–291m**  
 Velha mine, Riacho Genipapo area, near Araçuaí **12:74**  
 Virgem da Lapa pegmatites, west-northwest of Virgem da Lapa **6:250h, 7:41h, 7:130h, 7:309, 8:59s, 8:391s, 9:37–38s, 10:8–9s, 13:19–28h,g,m,p, 17:295s, 18:365s**  
 Xanda mine, near Virgem da Lapa **7:41h, 13:21–22m,p, 13:24–25g**  
 Zé Bento mine (see João Modesto dos Santos mine)  
 Zé Berto mine, near Linópolis **14:222m, 14:236**  
 Zé Pinto prospect (Jose Pinto mine, Aldeia do Eme mine, Fazenda Santa Elisa prospect), near Governador Valadares, Conselheiro Pena **21:253s, 21:405–408m,h,g**
- Paraíba**  
 Alto Benedito pegmatite, northwest of Picuí **22:183–185h,g**  
 Alto Bernardino, northwest of Picuí **12:379s**  
 Batalha mine, northwest of Salgadinho, near São José da Batalha **22:217h**  
 Campina Grande (near) **21:488s**  
 Frei Martinho, north of Picuí **22:387s**  
 João Pessoa **22:387s, 23:276s**  
 Serra Branca, south of Pedra Lavrada **22:387s**  
 Serrote Redondo, south of Pedra Lavrada **22:387s, 23:433s**
- Paraná**  
 Bassetti prospect, Rocha mine, Ribeira Valley **6:282–291m**  
 Locality not specified **20:335**  
 Panelas mine, near Adrianópolis, Ribeira Valley **6:282–291m**
- Piauí**  
 Pedro II **2:12s**  
 Ribeira Valley (border between São Paulo and Paraná) **6:282–291m**
- Rio de Janeiro**  
 Countagarlo **22:387**  
 Rio Das Ostras **20:439–440p,m**
- Rio Grande do Norte**  
 Alto Santino, near Ecuador **7:165**  
 Boqueirãozinho pegmatite (see Capoeira pegmatite)  
 Capoeira (Boqueirãozinho) pegmatite, east of Parelhas **21:488s**  
 Carnaúba dos Dantas **24:385s**  
 Serra Branca **22:387s**
- Rio Grande do Sul**  
 Amethyst geodes, enormous **23:282**  
 Amethyst mines, unspecified **18:408s**  
 Irai **25:60**  
 Locality not specified **20:394s**  
 Planalto **21:488s**
- Santa Catarina**  
 Ribeirão da Prata **6:282m, 6:283s**  
 Santa Lages (south of) **2:13**
- São Paulo**  
 Furnas mine, Ribeira Valley **6:282–291m**  
 Itapirapuá prospect **6:282m, 6:288s**  
 Jacupiranga mine **12:185s, 13:44s, 15:261–270h,g,p,m, 16:148s, 23:433s**  
 Lageado district, Ribeira Valley **6:286s, 6:290**  
 Locality not specified **20:335**  
 Lourenço Velho, Ribeira Valley **6:282–291m**  
 Perus district **19:249s**  
 Santana Nova prospect, near Lageado, Ribeira Valley **6:282–291m**
- BRAZILIANITE**  
 Correct spelling **14:230h**  
 In pegmatite environments **4:124–125**  
 Numerous world localities **4:120**
- Austria**  
 Millstätter Seenrücken, Carinthia **17:(110)**
- Brazil**  
 Minas Gerais **2:10n**  
 Baixo, Guandu **24:225p, 24:230n**  
 Córrego Frio mine, near Linópolis (4 cm crystals) **14:228p, 14:229–230h, 14:232–233c,d**  
 Galiléia (to 7 cm) **24:384n**  
 Geraldo Candinho mine, near Linópolis (vugs of crystals to 1 cm) **14:236**  
 Hermes mine, near Linópolis (aggregates to 40 kg; micro crystals) **14:236**  
 João Modesto dos Santos mine, near Linópolis **14:233**  
 Jove Lauriano mine, near Linópolis **14:(235)**  
 Linópolis (near) (7 additional minor localities listed) **14:236**  
 Sebastião Cristino mine, near Linópolis (20 cm masses, 1 cm crystals) **14:235–236**  
 Telfrio mine, near Linópolis **14:234**
- Canada**  
 Yukon  
 Rapid Creek (vs. augelite; 1 cm crystals) **23:Y18–19c,p,d**
- United States**  
 Maine  
 Bell pit **6:203n**  
 Mt. Mica **16:(372)**  
 New Hampshire  
 G. E. Smith quarry, Sullivan County **4:125**  
 Palermo mine **4:125, 5:277h**
- BREITHAUPHITE**  
**Canada**  
 Ontario  
 Silver Islet mine **17:(59)**
- BRENKITE**  
**Germany**  
 Rheinland Pfalz  
 Schellkopf quarry, Eifel district **10:92p**
- BREWSTERITE**  
**Canada**  
 British Columbia  
 Yellow Lake area, near Olalla **15:93**
- Scotland**  
 Highland  
 Strontian **21:(492)**
- United States**  
 New York  
 Gouverneur Talc Co. #4 quarry, Lewis County (Ba-analog; crystals to 3 mm) **24:383n**
- BRIARTITE**  
**Namibia**  
 Tsumeb (massive) **8:T20**
- Zaire**  
 Prince Leopold mine, Shaba **8:(517)**
- BRITHOLITE-(Ce), -(Y)**  
**Canada**  
 Québec  
 Mt. St-Hilaire: **2:269, 2:271q; britholite-(Ce), minute sprays 21:299p; "lessingite" 2:142**
- BRITISH COLUMBIA**  
 Afton mine, near Kamloops **22:384s,h**  
 Ajax pit, near Kamloops **22:384s**  
 Aley carbonatite, east of Williston Lake **18:362s**  
 Alice Arm **8:517s**  
 Ash Mountain, Tuya Range **24:385**  
 Beaverdell (near) **23:428s**  
 Beaver group, Beaver Mountain, east of New Denver **2:208–209**  
 Betty group, on Betty Glacier, north of Divide Lake **15:90m, 15:91, 15:92p**  
 Bluebell mine, Riondel, Kootenai Lake **8:33–36m,h,g**  
 Bralorne mine, near Goldbridge **21:485s,h**  
 Chase Creek, Falkland **21:485s**  
 Comet group, near Hazelton **2:204–205**  
 Courtenay (near) **22:384s**  
 Criss Creek, near Savona **8:517s**  
 Diorite group, near Terrace **2:206**  
 Engineer mine, Tagish Lake, near Atlin **24:385h,s**  
 Francois Lake **3:37s**  
 Glacier Gulch (South Side group), north of Smithers **2:204h, 15:90m**  
 Good Hope group, northeast of Hedley **2:207**  
 Gowland Harbor (prospects near), Quadra Island, near Vancouver Island **15:89, 15:90m**  
 Grotto group, near Terrace **2:206**  
 Highland Bell mine, east of Beaverdell **2:208, 20:441–446m,p,g,h**  
 Hope (near) **11:14s**  
 Ice River complex, near Golden **14:50s, 20:391s**  
 Ice River complex, south of Field **12:221–226h,m,g,p**  
 Johnson's Crossing (north of) **23:428s**  
 Kamloops Lake **3:233–234s, 14:367–368s**  
 Lead King group, Nine Mile Mountain, near Hazelton **2:205**  
 Lime Creek stock, Alice Arm **1:136s**  
 Manitou mine, northwest of Lillooet **2:207s**  
 McBride (marble quarry near) **18:362n**  
 Menzies Bay, Vancouver Island **15:89, 15:90m**  
 Monte Creek, Kamloops district **19:333s**  
 Monte Lake (near) **23:428s**

Mt. Brussilhof (Brussilof) mine, near Radium **24:385s, 25:214s**  
 Mt. Washington copper mine, near Courtenay, Vancouver Island **15:89–90m**  
 Oxide claim, south of Ymer **2:208**  
 Rare sulfosalt localities **2:203–209**  
 Red Rose mine, south of Hazelton **2:205**  
 River's Inlet mine, River's Inlet **23:428s**  
 Rocher Déboulé mine, Rocher Déboulé Mountain, south of Hazelton **2:205, 15:90m–91p**  
 Rock Candy mine, near Grand Forks **12:99–101h,g,m,p, 19:333h, 23:428h**  
 Silver Standard mine, north of Hazelton **2:204**  
 Society Girl claim, east of Moyie **2:208s, 15:90m, 15:93**  
 South Side group (see Glacier Gulch)  
 Spatum claim, south of Cache Creek **15:90m, 15:92**  
 Sunrise group, Nine Mile Mountain, near Hazelton **2:205**  
 Tungsten Queen mine, northwest of Lillooet **2:207**  
 Van Silver deposit, across Howe Sound from Whistler Mountain **18:362s**  
 Whiskey Creek group, southwest of Hazelton **2:205–206**  
 White Elephant group, southwest of Vernon **2:207–208**  
 Willett mine, south of Lardeau **15:90m, 15:92–93**  
 Yellow Lake area, near Olalla **15:90m, 15:92–93, 20:391s**

**BROCHANTITE**

**Australia**

New South Wales  
 Broken Hill **7:31n**  
 Kintore opencut, Broken Hill **19:429**  
 Queensland  
 Mt. Oxide mine **19:485**  
 South Australia  
 Pinnacles mine, Flinders Range **15:110p**  
 Western Australia  
 Ashburton Downs (crystals) **24:209p**

**Brazil**

Bahia  
 Boquirá mine, near Oliveira do Brejinho (efflorescent crusts) **6:283**  
 Minas Gerais  
 Jove Lauriano prospect, Divina das Laranjeiras **20:(189)**  
 Vazante mine (crusts) **6:283**

**Canada**

British Columbia  
 Betty group, Betty Glacier, north of Divide Lake **15:(91)**  
 Rocher Déboulé mine, near Hazelton **15:(91)**  
 Spatum claim, near Cache Creek **15:92n**  
 Northwest Territories  
 Nanisivik mine **21:(533)**  
 Québec  
 Evans-Lou pegmatite (crust) **3:72**  
 Mt. St-Hilaire (reddish) **24:388n**

**Chile**

Chuquicamata (most id as antlerite) **9:328**  
 Mina la Verde, Copiapó district **9:134**  
 Portrerillos (needles) **10:123**

**England**

Cornwall  
 Botallack district **24:279n**  
 Derby  
 Ball Eye quarry, Bosnall **14:(23)**  
 Snelston **14:(23)**  
 Shropshire  
 Ladywell mine, Shelve **13:167**

**France**

Gard  
 Val Croze **23:434n**

**Germany**

Rheinland-Pfalz  
 Ems district **15:333**  
 Friedrichslegen mine **15:341p**

**Greece**

Kamaréza mine, Laurium (blue colloform) **7:123n**

**Italy**

Sardinia  
 Sa Duchessa mine **15:(372)**

**Kazakhstan (formerly USSR)**

Dzhezkasgan **23:(495)**

**Mexico**

Chihuahua  
 Los Lamentos **11:284**

**Morocco**

Bou Becker **18:160n**  
 Touissit (6 mm, terminated) **17:341n**

**Namibia**

Tsumeb (velvety; crystals to 13 mm) **8:T20, 8:T84p**

**New Zealand**

Maharaha mine, North Island (with langite) **17:202n**

**Scotland**

Strathclyde  
 Scar Vein, Leadhills **13:170q**  
 Strathclyde/Dumfries and Galloway  
 Leadhills-Wanlockhead district **12:(250)**

**Spain**

Sierra de Prades, Tarragona **25:(222)**

**Switzerland**

Cavradi-Schlucht, Graubünden (after chalcocite or stromeyerite) **18:432n**

**United States**

Arizona  
 Bisbee district **12:295**  
 Czar shaft, Bisbee district (spongy aggregates) **12:295**  
 Grand Reef mine, Graham County **11:223**  
 Grandview mine, Coconino County (acicular, prismatic) **2:218p, 2:221q**  
 Holbrook shaft, Bisbee district (5 mm prismatic) **12:295**  
 Irish Mag shaft, Bisbee district (1 cm prismatic) **12:295**  
 Lavender pit, Bisbee district (acicular, prismatic) **12:295**  
 Magma mine **14:(82)**  
 Mammoth mine, Pinal County **11:172**  
 New Cornelia mine, Pima County **14:294**  
 Nugget Fraction mine, Pinal County **15:(43)**  
 Ray mine, Pinal County (coating; poss. antlerite) **14:318**  
 79 mine **3:253**  
 Shattuck shaft, Bisbee district: malachite after, to 7 cm **12:308**; 7.5 cm crystals **12:295d**  
 Silver Hill mine, Pima County **19:(312)**  
 Southwest mine, Bisbee district (spheres of prismatic) **12:295**  
 Tonopah-Belmont mine, Maricopa County **19:141p, 19:142**  
 Uncle Sam shaft, Bisbee district (sand) **12:295**  
 California  
 Blue Bell mine, San Bernardino County **8:495**  
 Hale Creek mine, Trinity County **19:(128)**  
 Lucky Lucy mine, Inyo County **15:13n**  
 Zinc Hill mine, Inyo County: **15:13n**; acicular, prismatic **6:112**  
 Idaho  
 Bunker Hill mine **12:342**  
 Massachusetts  
 Loudville mines, Hampshire County **6:297n**  
 Michigan  
 Clark mine, Keweenaw County **23:M53n**  
 Nevada  
 Majuba Hill mine: **16:63**; acicular to 1 mm; efflorescences **24:176**; spheres **16:65p**

**New Jersey**

Chimney Rock quarry, Somerset County (coatings) **9:30**  
 Sterling mine (micro) **25:98–99p**

**New Mexico**

Blanchard claims, Socorro County: **20:38p**;  
 "blanchardite" id as **3:229–230**  
 Hansonburg district, Socorro County **20:36**  
 Mex-Tex mine, Socorro County (linarite on) **20:42p**

**Oklahoma**

Paoli (southeast of), Garvin County **17:371–373p**

**Pennsylvania**

Phoenixville **20:378**

**Utah**

Gold Hill mine **24:19p, 24:20**

**BROCKITE**

**Canada**

Québec  
 Mt. St-Hilaire: **2:269, 2:270q**; micro crystals **2:142**; powdery masses **21:299–300**

**BROMARGYRITE**

**Australia**

New South Wales  
 Kintore opencut, Broken Hill **19:429**

**Chile**

Chañarcillo (some iodine, mercuroan) **10:202–203n**

**Germany**

Rheinland-Pfalz  
 Ems district (waxy yellow-green crusts) **15:334**

**Mexico**

Chihuahua  
 Batopilas district **17:(79)**

**Spain**

Hiendelaencina district, Guadalajara (massive) **23:245**

La Suerte mine, Guadalajara (minute crystals) **23:245**

**United States**

Arizona  
 Cole shaft, Bisbee district (2 mm euhedral) **12:295**  
 Shattuck shaft, Bisbee district (replacing silver) **12:295**  
 Tombstone district, Cochise County **11:253**

**BROOKITE**

Monaco postage stamp illustration **23:446, 24:401**  
 Original description; first named "jurinite" **24:400h**

**Australia**

New South Wales  
 25 North mine, Kingsgate mines **16:281c,d,p**

**Austria**

Frossnitzalpe, East Tyrol **20:483**  
 Grieswies area, Salzburg **13:173n**  
 Lohninger quarry, south of Rauris, Salzburg **13:172p**  
 Vorderen Eichamspitze, East Tyrol (7 cm crystals) **17:106n**

**Canada**

Québec  
 Mt. St-Hilaire: **13:(243)**; euhedral to 5 mm **21:300p**  
 Poudrette quarry (pseudo-octahedral) **23:90p**  
 Sherbrooke **20:219**

**England**

Cumbria  
 Pink quarry, Shap Fell (3 mm blades) **21:492n**

**Italy**

Liguria  
 Monte Brigaceto, near Genoa (2 cm orange crystals with anatase) **15:41**

**Tuscany**

Crestola Bassa quarries, Carrara region **18:283**  
 Grotta del Guerrino, Elba **16:(358)**

## GENERAL INDEX

- Norway**  
Hardangervidda **18**:368n  
Matskorhae, Hordaland (crystals to 5 mm) **8**:270
- Russia (formerly USSR)**  
Perm, Ural Mountains (tabular to 3 cm) **23**:494n  
Sarnapaul, Ural Mountains **24**:389n
- Switzerland**  
Glarus (locality not disclosed) (2 mm blades) **6**:305p  
La Bianca, Grisons (micro prismatic) **6**:309p
- United States**  
Arizona  
New Cornelia mine, Pima County (minor) **14**:294  
Arkansas  
Rutherford deposit, Magnet Cove **20**:(387)  
Colorado  
Indiana and Topeka-Kentucky Giant veins, Ouray County (minute tabular) **25**:372–374p  
Lot mine, Gunnison County **25**:373n  
Silver Link mine, Ouray County **25**:373n  
Maine  
Consolidated #2 quarry, Sagadahoc County (micro) **24**:383n  
Massachusetts  
Chester emery mines **9**:236, **9**:238  
Nevada  
Majuba Hill mine: **16**:62; minute crystals **24**:176  
New Jersey  
Buckwheat open pit, Franklin (micro euhe-dral) **14**:186p  
New York  
Ellenville, Ulster County **2**:181n  
Vermont  
Putney (north of), Windham County (micro) **22**:384n  
Wisconsin  
Rib Mountain, Marathon County **12**:95
- Wales**  
Gwynedd  
Prenteg: **20**:395; clear brown tabular to 3 cm **23**:395p, **23**:396d,c
- 
- BRUCITE**  
**Brazil**  
São Paulo  
Jacupiranga mine **15**:264
- Russia (formerly USSR)**  
Asbest, Ekaterinburg, Central Urals (clear crystals to 5 cm) **24**:389n
- South Africa**  
Cape Province  
Kalahari manganese field (crystals to 3 cm) **22**:283  
Transvaal  
Palabora Open Pit **19**:203n
- Turkey**  
Kop Dağları, near Erzerum (rosettes) **8**:403  
Kop Krom mine, west of Erzerum: hydromagne-site after **9**:284–285, **9**:287p; rosettes to 3 mm **9**:284, **9**:286p
- United States**  
Arizona  
Czar shaft, Bisbee district (minute tabular) **12**:295
- California  
Jensen quarry, Riverside County (after peri-  
clase) **15**:280, **15**:287n  
Kalkar quarry, Santa Cruz County (micro  
grains) **17**:321
- Colorado  
Italian Mountain area, Gunnison County  
**15**:86n
- Michigan  
Isle Royale and Kearsage lodes, Keweenaw  
Peninsula (massive) **23**:M53
- Nevada  
Gabbs (near), Nye County **12**:394
- New Jersey  
Sterling mine (minute flakes) **25**:99
- Pennsylvania  
Cedar Hill quarry, Lancaster County (“lan-  
casterite”) **2**:40  
Texas, Lancaster County (crystals) **1**:(84)  
Wood’s mine, Lancaster County: “lancaster-  
ite” **2**:39–40; pale green rosette **8**:39p
- Pennsylvania/Maryland  
Line pit, State Line district **12**:154
- 
- BRÜGGENITE**  
**Chile**  
Pampa Pique III, Oficina Lautare **3**:6h,q
- 
- BRUGNATELLITE**  
**Canada**  
Ontario  
York River tactite zone, near Bancroft (foli-  
ated, after brucite nodules) **13**:227–228
- Italy**  
Lombardy  
Val Malenco **3**:123
- 
- BRUNOGEIERITE**  
**Namibia**  
Tsumeb: **9**:44n; thin coatings **8**:T21n, **8**:T75p
- 
- BRUSHITE**  
**Australia**  
Western Australia  
Moorba Cave, Jurien Bay **9**:(113)
- Canada**  
Yukon  
Rapid Creek (minute sprays) **23**:Y37
- England**  
Cornwall  
Wheal Cock, near St. Just **24**:279
- 
- BUCHWALDITE**  
Cape York meteorite (announced; minute grains)  
**9**:254h,q
- 
- BULFONTEINITE**  
**South Africa**  
Cape Province  
N’Chwaning mine **18**:(368), **22**:283h,p
- 
- BULGARIA**  
Chelopech **13**:396s  
Kyustendil **22**:459s  
Madan orefield, near Madan: **22**:439–445h,m,p,g,  
**24**:230s, **25**:61s; list of 35 mines **22**:441  
Ninth of September mine, Madan orefield **18**:147s,  
**20**:69s, **20**:299s, **20**:394s, **21**:257s, **22**:459s  
Novoseltsi **23**:433s  
Ossikovo **25**:140s
- 
- BURBANKITE**  
**Canada**  
Québec  
Mt. St-Hilaire: **10**:103–104; prismatic to 2  
cm **21**:300–301p,d,m; some id as remon-  
dite-Ce **23**:429
- Greenland**  
Grønnedal-Ika complex (grains) **24**:G47n  
Qaqarsuk complex (minute crystals) **24**:G48
- 
- BURCKHARDTITE**  
**Mexico**  
Moctezuma mine (announced) **10**:301h,q
- 
- BURKEITE**  
**United States**  
California  
Searles Lake (crystals, twins to 4 mm) **6**:74p,  
**6**:76c
- 
- BURMA**  
*See Myanmar Republic*
- 
- BUSTAMITE**  
**Australia**  
New South Wales  
Broken Hill **7**:28
- South Africa**  
Cape Province  
N’Chwaning II mine (massive) **22**:283
- 
- BUTLERITE**  
**Chile**  
Chuquicamata **9**:329
- 
- BÜTSCHLIITE**  
**Canada**  
Ontario  
Two localities **2**:200
- United States**  
Virginia  
Long Shop (near), Montgomery County  
(clinkers from burned dead tree) **2**:130–  
132h,q
- 
- BUTTGENBACHITE**  
**United States**  
Michigan  
Centennial #1 & #2 mines, Houghton County  
(post-mining) **23**:M53
- Zaire (formerly Belgian Congo)**  
Likasi mine **9**:(113)
- 
- “**BYSSOLITE**”  
*See also Actinolite*  
Defined **2**:100
- 
- BYSTRITE**  
**Russia (formerly USSR)**  
Kola Peninsula **24**:(389)
- 
- “**BYTOWNITE**”  
*See also Plagioclase Series*  
History **13**:101–105h,q
- Canada**  
Ontario  
Ottawa **13**:101–105h

## GENERAL INDEX

### CACOXENITE

Not verified from pegmatites; most id as strunzite  
**4:119, 4:121**

#### Australia

Queensland  
 Mt. Isa mine **19:479**  
 South Australia  
 Moonta mines **19:(412)**

#### Brazil

Minas Gerais  
 Conselheiro Pena (id as acicular beraunite)  
**24:385n**

#### Ireland

Ft. Lismeenagh, Shenagolden, County Limerick  
**20:396**

#### Spain

Horcajo mines, Ciudad Real (rosettes; crystals to 1 cm)  
**25:22p, 25:25**

#### Sweden

Leveäniemi iron mine, Norrbotten **20:345p, 20:346, 22:(48)**

#### United States

Alabama  
 Indian Mountain **20:358, 20:361p**  
 Jacksonville (near), Calhoun County **9:390**  
 Rock Run station, Indian Mountain **9:388p**  
 Williams pegmatites, Coosa County (1 mm tufts)  
**6:71–72**

#### Arkansas

Mena, Polk County **16:150**

#### Georgia

Indian Mountain, Polk County: **20:358, 20:361p**; see also Cacoxenite—United States—Alabama—Indian Mountain

#### New Jersey

Mullica Hill, Gloucester County **11:309**

#### New Mexico

Phelps-Dodge mine, Grant County **20:57n**

#### New York

Sterling mine, Jefferson County **15:208–210**

#### Pennsylvania

Bachman mine, Northumberland County  
**11:311n**

Hellertown, Northampton County **1:38n**

Moore's Hill, Cumberland County **11:311p**

#### South Dakota

Tip Top mine (unverified) **17:239**

### CAFARSITE

#### Canada

Ontario  
 Hemlo gold deposit **17:(340)**

#### Italy

Lombardy  
 Monte (Pizzo) Cervandone, Ossola: **8:(517)**;  
 crystals to 15 mm **23:434n**; golden brown  
 crystals **21:489n**

#### Switzerland

Binnatal, Valais **2:187p,h**  
 Valais (locality not specified) **8:(390)**

### CAHNITE

Crystal replica as Lazard Cahn's tombstone **3:99p**

#### Italy

Roma  
 Vallerano, Strada Luarentina (minute crystals)  
**23:435n**

### CALAUERITE

Locality not specified **13:392q**  
 Numerous world localities **13:395–396h**

#### Australia

Western Australia  
 Kalgoorlie **13:(399), 18:(28)**

#### Romania

Săcărâmb (formerly Nagyág) **13:(374)**  
 Stanija (formerly Sztanisza) **13:(374)**

### United States

Arizona  
 Campbell shaft, Bisbee **24:428n**

California  
 Golden Rule mine, Tuolumne County **18:63**  
 Stanislaus mine, Calaveras County **13:396h**

Colorado  
 Cresson mine, Teller County (1 cm crystals; some poss. melonite after) **16:234–236d,c**  
 Cripple Creek, Teller County **13:395–396p,d, 13:399**  
 San Juan Mountains **10:358n**

Oregon  
 Last Chance mine, Baker County **13:398n**

Wisconsin  
 Rib Mountain, Marathon County (5 mm laths in quartz) **12:95**

### CALCIO-ANCYLITE-(Ce), -(Nd)

#### Canada

Québec  
 Mt. St-Hilaire (calcio-ancylite-(Ce)) **21:295–296d,c, 21:297p**

#### United States

North Carolina  
 Foote mine (with monazite) **18:203–205q**

### CALCIOFERRITE

#### Australia

South Australia  
 Moculta quarry, Angaston-Kapunda area  
**16:477–480p,q,d,h**

#### Germany

Hessen  
 Battenberg **16:477h**

#### Spain

Begues/Brueges/Brugdes/Bruges (labels unclear), Barcelona **16:(477)**

#### United States

North Carolina  
 Foote mine **16:(477)**

South Dakota  
 Tip Top mine: **14:197q**; unverified **17:239**

### CALCIOHILAIRITE

#### United States

Washington  
 Washington Pass, Okanogan County **20:(152)**

### CALCIOVOLBORTHITE

#### Canada

British Columbia  
 Menzies Bay, Vancouver Island **15:89**

#### United States

Arizona  
 Copper Queen #9 mine, Yuma County **11:264–265n**  
 Monument Valley, Navajo/Apache counties  
**18:334p**  
 New Water Mountains, Yuma County **14:119p**

### CALCITE

Cobaltian, id as cobaltian dolomite **23:445–446q**  
 Miller calcite collection **18:405–411p**  
 Morphology **24:451–461ff,h,d,p**  
 Toxicity **11:6**

#### Australia

New South Wales  
 Ardglen quarry (some fluorescent) **19:399c**  
 Ben Lomond (some spherulitic) **19:403–404c,p**  
 Broken Hill **19:424n**  
 Garrawilla area, Kingsgate mines (some pseudo-octahedral) **19:394c**  
 Goodwin's pipe **16:282**  
 Hunter Valley area (several localities) (after glauberite to 50 cm; "glendonites"; "pine-apple" groups) **7:60–68c,p**  
 Huskisson (after glauberite to 60 cm) **7:65**

Prospect quarry (rhombs to 3 cm) **25:189–190p**

Unanderra quarry **19:393c**  
 Willy Wally Gully (spherulitic) **19:401**

#### Queensland

Mt. Isa mine (some scepter) **19:479**

#### South Australia

Beltana mine: smithsonite after **22:454p**;  
 white rhombs to 1 cm **22:452**  
 Wallaroo mines **19:413**

#### Tasmania

Renison mine **19:384**

#### Victoria

Flinders area **19:456**  
 Hunter River valley, north of Sydney ("glendonite," poss. after ikaite) **19:368p,h**  
 Jindevick quarry, Warregul (oriented on calcite) **19:199, 19:200p**  
 Kennon Head, Phillip Island **19:456**  
 Phelans Bluff, Phillip Island **19:456**  
 Phillip Island **19:456**

### Austria

Bleiberg district (some green plumbian) **17:360–362c,p,d**  
 Knappenwand, Salzburg **17:177p–178**

### Belgium

Rhisnes **20:299**

### Bolivia

El Dragón mine, Potosí: goethite after **21:142n**;  
 minute secondary crystals **21:141n**

### Brazil

Minas Gerais  
 Irai (large sharp scalenohedral) **25:60n**  
 Rio Grande do Sul (prismatic in amethyst geode; nontronite in; chacedony after)  
**18:408n**  
 Serra do Parela (rhombs to several dm) **6:283**  
 São Paulo  
 Jacupiranga mine (various habits) **15:264, 15:267**

### Bulgaria

Maden orefield (various habits) **22:441–442c**  
 Ninth of September mine **18:(147), 18:161n**

### Canada

Alberta  
 Athabasca (near) (bright yellow) **23:428n**

British Columbia  
 Bluebell mine, Riondel (rhombs; sphere of saddle-shaped) **8:34p, 8:35–36p**  
 Ice River complex (cleavages) **12:224**  
 Marble quarry near McBride (twinned)  
**18:362n**  
 Monte Lake (near) (nailhead scepters to 1 cm) **23:428n**

Northwest Territories  
 Echo Bay mine, Port Radium **20:202–203p**  
 Nanisivik mine (various habits; some with etched rings to 2 mm) **21:521–522p,c**

#### Ontario

Canadian Talc Co. mine, Madoc area, Hastings County **13:83p**  
 Davis Hill (anhedral crystals to 10 cm) **21:243p**  
 Faraday mine, near Bancroft (clear rhombs with spiral pyrite in; hematite-coated scalenohedrons) **13:82p**  
 Long Lake mine, near Parham (4 cm twinned, marcasite-coated) **13:82p**  
 Lyndhurst mine, Black Rapids (6 cm complex crystals) **13:82, 13:83p**  
 MacDonald Feldspar mine, Hastings County (in granite pegmatite) **13:200**  
 Madoc area, Hastings County **13:91**  
 Numerous localities **13:82–83**



- Québec  
 Drummondville area **19**:(334)  
 Francon quarry, Montreal Island (tiny pyrite included along edges) **15**:111p  
 Henderson No. 2 mine, near Chibougamau (euhedral to 3 cm) **14**:154–155p,d  
 Marcil quarry, near Sainte-Clotilde-de-Chateaugay (yellow scalenohedra to 10 cm) **23**:429n  
 Mt. St-Hilaire: bright yellow **13**:244n; various habits to 10 cm **21**:301; with albite in grossular **19**:326, **19**:328p  
 Niobec mine, Chicoutimi (flat scalenohedral to 10 cm) **12**:357  
 Orford mine (with pressure-induced twinning) **25**:336p  
 Sherbrooke area roadcuts **20**:214–215p,d,c  
 Windsor, near Sherbrooke **18**:(363)  
 Yates mine, Pontiac County (pink, orange massive) **12**:360
- China**  
 Guizhou (5 cm twins with realgar) **21**:175  
 Linwu, Hunan **20**:394
- Colombia**  
 Muzo (crystals with emerald) **18**:408n
- Czech Republic (formerly Czechoslovakia)**  
 Bohutín district, Příbram ore field (2 cm prismatic) **12**:163p  
 Příbram: orange **18**:406p; pyrite, marcasite on **18**:407n
- Denmark**  
 Færoe Islands (6 localities) **12**:23p,d
- England**  
 Cornwall  
 Botallack district **24**:279  
 Levant mine, Geevor (angel-wing) **25**:44n  
 Wheel Wrey (L-shaped twins) **14**:364  
 Cumberland (hematite in) **18**:407p, **18**:408n  
 Pallaflatt mine (prismatic) **18**:408p  
 Cumbria  
 Nentsberry Haggs mine, Nenthead: after alstonite to 1 cm **25**:44n; after witherite **24**:394n, **25**:145  
 Pallaflatt mine (2 huge groups, British Museum) **22**:221  
 Derby  
 Eyam (butterfly twins) **14**:19  
 Ladywash mine, Eyam (prismatic) **14**:19, **14**:21p  
 Riber mine, Matlock (5 cm scalenohedron) **14**:19p  
 Durham  
 Boltsburn mine, Weardale (“nailhead”) **13**:15p, **13**:16–18c  
 Lancashire (colorless, oriented on brown calcite) **18**:411p  
 Northumberland  
 Higgs mine, Netsberry (see Nentsberry Haggs mine, Cumbria)
- France**  
 Cabrerets, Lot (sand-included) **20**:395  
 Fontainbleau, Seine-et-Marne (“sand calcite”) **18**:(408), **22**:221  
 Les Farge mine, Corrèze (with pyromorphite) **18**:(408)  
 Saint-Pons (near), Haute-Provence **24**:42
- Germany**  
 Mackenheim, Odenwald (1 cm tabular hexagonal) **8**:306p  
 Niedersachsen  
 St. Andreasberg: **17**:9c; hexagonal prismatic **15**:143p, **15**:144c; huge specimens **22**:221; tabular **1**:(84); white-tipped “gun barrel” **18**:(408)  
 Rheinland-Pfalz  
 Laacher See area, Eifel district **8**:318d, **10**:92p
- Greece**  
 Kamaréza mine, Laurium (various habits to 3 cm; some smithsonite after) **7**:124  
 Laurium: **17**:186; large green coralloidal **22**:221
- Greenland**  
 Narssárssuk (rhombs to 2 cm; prismatic) **5**:120n
- Hungary**  
 Karoly mine, Gyongyosoroszi (spherical aggregate) **18**:408, **18**:409p
- Iceland**  
 Eleven localities (various habits) **12**:23p,d  
 Helgustadanáma (“iceland spar” to 50 cm) **12**:23
- India**  
 Bombay (thin triangular prismatic to 13 cm) **7**:253  
 Poona (14 cm amber rhombohedron) **18**:408n, **18**:410p
- Italy**  
 Lazio **20**:396  
 Lombardy  
 Baveno area (flat hexagonal) **14**:162  
 Sardinia  
 Santa Lucia fluorite mine (2.5 cm nail-head crystals) **15**:372n  
 Tuscany  
 Boccheggiano and Niccioleta mines (scalenohedral to 7 cm; fl.) **10**:284  
 Calagio quarry: **18**:284c,d; twinned **18**:284p  
 Montalto district Castro mine: hemispheres **18**:366n; yellow hemispheres **21**:489n
- Japan**  
 Yamata hot springs, Honshu (2 mm spheres) **9**:368n
- Kazakhstan (formerly USSR)**  
 Rudnui (complex yellow rhombs to 6 cm) **24**:232p, **24**:233  
 Sarbay-Sokolov (pseudocubic golden) **25**:140n  
 Sargai, Ural (complex) **24**:389n
- Kenya**  
 Mt. Elgon **20**:396
- Kyrgyzstan (formerly USSR)**  
 Kadamtschai (25 cm doubly terminated, cinnamon in) **25**:140n
- Mexico**  
 Chihuahua  
 Buena Tierra mine, Santa Eulalia district (red) **14**:385n  
 Francisco Portillo (manganocalcite) **18**:408n  
 Los Lamentos **11**:284  
 Naica (white rhombs on fluorite) **18**:408n  
 Potosí mine, Santa Eulalia district: cave formations; museum diorama **19**:267; red, to 3 cm **22**:390n  
 Santa Eulalia district (coralloidal) **24**:51n  
 Durango  
 Ojuela mine (aurichalcite in) **18**:406p  
 Guerrero  
 Taxco **18**:155n  
 Locality unknown (orange) **19**:337n  
 Nuevo Leon  
 Challenger cave system, south of Monterrey (color-zoned optical) **17**:341n  
 Zacatecas  
 Mina Salaverna, Concepcion del Oro **20**:396  
 Sombretete (stibnite in) **18**:408n
- Namibia**  
 Onganja mine: **18**:409n; cuprite, copper in **5**:235n  
 Rössing uranium mine, Rössing (long micro prisms) **19**:202–203p  
 Tsumeb: **19**:272n, **19**:337n; duftite oriented in **18**:407p; galena after **8**:T25n; heterogenite on **8**:T59p; numerous habits; some cobaltian, cuprian, plumbian **8**:T21, **8**:T49, **8**:T66p
- Netherlands**  
 Limburg province (southern) **18**:432n
- New Zealand**  
 Lyttleton Harbor Board quarry, Lyttleton Borough (combined saddle-shape and rhombohedron) **17**:270–271p  
 Tui mine (clear crystals to 10 cm) **6**:27
- Norway**  
 Kjørholt, Porsgrunn, Telemark: **23**:435n; clear with scalenohedral phantoms **24**:393  
 Kongsberg: including “skiferspat” **17**:33c; on wire silver **18**:409n, **22**:221  
 Kristiansund (near), Møre og Romsdal **23**:(436)
- Pakistan**  
 Haramosh Mountains, Gilgit division (in pegmatite, with inky blue beryl) **16**:403
- Peru**  
 Casapalca, Junin (manganocalcite) **18**:(409)  
 Julcani district (siderite-calcite; thick, layered coatings) **5**:219, **5**:221p  
 Pachapaqui mine, Ancash province: **18**:(245), **18**:(409); manganocalcite, poss. rhodochrosite **18**:147–148
- Poland**  
 Machow mine, near Tarnobrzeg (trigonal to 2 cm) **23**:32  
 Tarnobrzeg (with included sulfur) **10**:123
- Portugal**  
 Monte Redondo quarry (micro) **2**:42
- Romania**  
 Baia Mare, Maramureş (formerly Nagybánya) **13**:(371)  
 Cavnic (white balls with black berthierite, to 8 cm) **23**:436n  
 Herja (spheres of black sulfide-included crystals) **25**:215n  
 Maramureş district **13**:371–374
- Russia (formerly USSR)**  
 Bielo More, Kola Peninsula (after ikaite) **25**:46  
 Dal’negorsk: doubly terminated scalenohedral to 14 cm **24**:234p; 25 cm tabular **23**:438n  
 Krasnoyarsky Kray, Yakutia (crystals to 18 cm) **23**:433n  
 Sverdlovsk area (?) **20**:75n  
 Ural Mountains (with “citric” quartz, pyrite) **18**:409n
- Serbia (formerly Yugoslavia)**  
 Trepča **4**:60, **18**:411n
- Slovakia (formerly Czechoslovakia)**  
 Banská Štiavnica (formerly Schemnitz) (3 cm scalenohedral with iridescent limonite) **22**:459
- Slovenia (formerly Yugoslavia)**  
 Mežica mine: **22**:101; orange **22**:103p
- South Africa**  
 Cape Province  
 Kalahari manganese field **22**:283p  
 Nababeep West mine **18**:(193)  
 N’Chwaning mine: 5 cm pink scalenohedral **22**:393n; odd morphology **18**:368c; some manganooan; some rhombs with acicular calcite oriented on **9**:146–148p,q; with sturmanite **18**:(409)  
 Wessels mine (manganooan, after 12 cm hydroxyapophyllite) **22**:287  
 Transvaal  
 Messina district (rosettes to 5 cm) **22**:196p  
 Palabora mine (pseudocubic to 15 cm) **22**:257p
- Spain**  
 Arlós-Villabona district, Asturias region (low rhombs, some stacked) **23**:73  
 Caravia-Berbes and La Collada districts, Asturias region (scalenohedral) **23**:73, **23**:74p  
 La Collada, Asturias region (on modified fluorite) **18**:409n  
 Moscona mine, Arlós-Villabona district, Asturias region **23**:75p  
 Villabona, Asturias region (with barite) **18**:(409)

## GENERAL INDEX

### Sweden

Malmberget mine, Lapland: clear golden scalenohedral to 8 cm **22:393p**; orange dogtooth **23:277**; pegmatitic **22:47n**

### Switzerland

Arisdorf, near Basle, Jura Mountains (scalenohedral) **6:306p**  
Churfirстен range, St. Gallen (rhombs to 4.5 cm) **10:122**

### Turkey

Kop Krom mine, west of Erzerum **9:284**, **9:286p**

### United States

#### Arizona

Apache mine, Gila County (platy white, trigonal terminations) **2:255**  
Bisbee district: gnarled **18:(409)**; malachite in **18:407p**; vast array of habits **12:295d**, **12:297–298**  
Campbell shaft, Bisbee district: complex iridescent **24:428**; limonite in **12:293p**; various, incl. blades to 10 cm, pseudo-hexagonal tabular **12:295–297**  
Camp Verde mine, Yavapai County (after glauberite) **14:89–90p**  
C & B mine, Gila County **11:213n**  
Cole shaft, Bisbee district (many habits) **12:295p**, **12:297**  
Copper Queen mine, Bisbee district: blades, scalenohedrons **12:297**; smithsonite after **12:311**  
Czar shaft, Bisbee district (including copper, chalcotrichite) **12:297**  
Dallas shaft, Bisbee district (including copper) **12:297**  
Defiance and adjoining mines, Cochise County (platy crystals) **11:206**  
Denn shaft, Bisbee district (elongated) **12:297**  
Grey Horse mine, Pinal County **11:232**  
Horseshoe Dam area, Maricopa County **14:116**  
Kingman (near), Mohave County (prismatic, scalenohedral terminations) **23:276**  
Magma mine (large crystals, diverse habits) **14:79–81p**  
Mammoth mine, Pinal County (flat tabular) **11:160d**  
New Cornelia mine, Pima County (some complex euhedral) **14:294**  
Ray mine (some 6 cm scalenohedrons) **14:318**  
79 mine **3:252**  
Shattuck shaft, Bisbee district (helictite groups; stalactites to 3 m; small crystals including malachite, shattuckite) **12:298**  
Southwest mine, Bisbee district: aggregates **24:293p**, **24:298p**; coiled crystal aggregate **12:293p**; long, thin helictites **12:287p**; malachite after **24:308**; scalenohedral to 20 cm **24:427p**, **24:428**; stalactites with aragonite crystals **19:331**; with malachite **12:292p**  
Tonopah-Belmont mine, Maricopa County **19:142**  
Twin Buttes open pit, Pima County **11:264n**  
Vekol mine, Pinal County (brown id as ferroan dolomite) **14:91p,q**

#### Arkansas

Monte Cristo mine, Marion County (bowtie habit) **20:155p**  
Rush Creek district, Marion County (scalenohedral to 30 cm; discoidal) **24:295**, **24:296p**

#### California

Blue Bell mine, San Bernardino County **8:495**  
Jensen quarry, Riverside County (thin, bladed) **15:281**, **15:288n**  
Kalkar quarry, Santa Cruz County (some pseudocubic; some fl. red) **17:322p**

New Melones Lake spillway, Calaveras County (paper-thin tabular to 3 cm) **13:298**

#### Colorado

Bachelor mine, Ouray County **19:98p**  
Blaine tunnel, Rico district (manganoean, crystals in quartz casts after barite) **16:213n**  
Camp Bird mine, Ouray County: **14:144–146p**, **20:388**; manganoean **7:303n**  
Crystal Cave, Ouray County (quartz on) **19:98–99p**  
Crystal Peak area, Park/Teller counties (rhombs, long scalenohedrons) **16:227n**, **16:229p**  
El Paso, Las Animas, Otero counties (some discoidal) **19:215n**  
Evening Star mine, Leadville district **16:192**  
Grizzley Bear mine, Ouray County **19:93**  
Idarado mine, San Miguel County: **7:303–304p**, **7:306**, **10:329**, **10:389p**, **10:391**; pyrite-covered **18:410p**  
Italian Mountain area, Gunnison County **15:81**  
Jones mine, Rico district (manganoean, curved pink rhombs) **16:216**  
Owl Canyon, Larimer County (after aragonite) **23:423–424**  
Pikes Peak batholith **10:376**  
Senorita mine, Ouray County (quartz on and after) **19:96**, **19:98p**  
Table Mountain, Jefferson County **19:163–167p,d**  
Uncompahgre district, Ouray County (quartz after coralloidal) **20:387**  
Wolf Creek Pass, Mineral County **7:272**

#### Connecticut

Gillette quarry, Middlesex County (fl) **23:25n**  
Thomaston Dam, Litchfield County (complex micro) **10:240p**

#### Florida

Florida Limestone quarry, Hernando County (transparent flower-like groups to 9 cm) **12:182–183p,n**

#### Idaho

Bunker Hill mine (5 cm scalenohedral) **12:341**  
Sunshine mine, Shoshone County (nailhead, to 2 cm) **25:60n**

#### Illinois

Denton mine, Hardin County (crystals to 12 cm) **24:48**

#### Indiana

Bedford (near), Monroe County (over 5 cm; fl. red) **22:351–352c,p**  
Hoosier Stone and Concrete Corp. quarry, Washington County (4 cm scalenohedral) **14:9**, **14:11p**  
Pleasant Ridge area **18:409n**

#### Iowa

Linwood mine, Scott County (numerous habits to 8 cm) **23:233–236c,p,d**  
Mich and Lost Creek mines, Mahaska County (iridescent brown) **4:188–190p,q**  
Pint's quarry, Black Hawk County **20:475–478p**

#### Kansas

Eagle mine, Ottawa, Franklin County **18:436–437p,d**  
Highway 10 roadcut, Johnson County **18:436–437p,d**

#### Kentucky

Muldraugh geode locality **23:(424)**

#### Maine

East Woodstock (grossular shells enclosing) **19:326n**

#### Maryland

Howard-Montgomery quarry, Howard County (micro; scalenohedra to 2 cm; minute pyrite, pyrrotite in) **25:54**

Medford quarry, near Westminster, Carroll County (crystals and twins to 25 cm) **17:151–152p**

Rocky Gap State Park (near), Allegany County **21:(483)**

#### Massachusetts

Chester emery mines (massive) **9:238**

#### Michigan

Keweenaw County (copper in) **18:(409)**  
Keweenaw Peninsula (numerous localities) (complex habits; various colors; copper in) **23:M53–57p,c,d**  
Phoenix mine, Keweenaw County (pseudocubic) **23:M52p**

#### Missouri

Brushy Creek mine, Reynolds County: **18:409n**; crystals, twins to 30 cm **10:33**  
Buick mine, Reynolds County (small scalenohedrons) **15:39n**  
Miliken mine, Reynolds County: doubly terminated to 50 cm **24:383**; golden to 4 cm **24:48**  
Pea Ridge mine, Sullivan, Franklin/Crawford counties (prismatic) **18:409n**  
Sweetwater mine ("St. Joseph lead district"), Reynolds County: amber, green phantom **18:409n**; scalenohedral with phantoms, to 20 cm **5:76–77p**

#### Montana

Bald Mountain, Jefferson County (marble; some blue, fades on heating) **7:20–21q**, **7:24q**  
Carter County (stalactitic, orange) **18:360n**  
Gallatin Canyon, Gallatin County: faceted **18:409n**; golden, some twins **19:332**

#### Nevada

Betty O'Neal mine, Lander County (phantom crystals) **22:383n**  
Chalk Mountain mine, Churchill County (small hexagonal tabular) **13:221**  
Majuba Hill mine (3 mm rhombs) **24:174**  
Northumberland mine, Nye County (clear crystals to 2 cm) **16:40**  
Pershing County (locality not specified) (30 cm crystals) **17:342n**

#### New Jersey

Chimney Rock quarry, Somerset County (rhombic to 5 cm) **9:29–30p**  
Franklin: fluorescent **19:275**; micro **5:36–37c,d**; pseudo-octahedral **15:144m**; some pseudo-octahedral **14:186–187p,d**  
Paterson area, Passaic County **9:174–175**  
Route 80 roadcut, Passaic County **1:173**  
Sterling mine (micro crystals) **25:99**  
Upper New Street quarry, Paterson, Passaic County (preferential hematite overgrowths on some faces) **15:229p**

#### New Mexico

Bobbi Dee mine, Sierra County **20:60n**  
Graphic-Waldo mine, Socorro County **20:18**  
Hansonburg district, Socorro County **20:36**  
Harding mine (near) (giant clear anhedron to 3.4 m) **8:124–125**  
Kelly mine, Socorro County **20:18p**  
Magdalena district, Socorro County **20:18–19**  
Point of Rocks quarry, Colfax County (and/or aragonite, in spheres) **15:151**

#### New York

Beaver Creek area, St. Lawrence County **17:(342)**  
Chittenango Falls, Madison County **9:92p**  
Middleville, Herkimer County: golden, part gemmy **17:342n**; "Herkimer diamond" on **18:361n**  
Rossie, St. Lawrence County **1:84n**

## GENERAL INDEX

- Sterlingbush, Lewis County (crystals to 90 cm, in crystal cave exhibit) **9:377p**  
 Sterling mine, Jefferson County **15:203–204c,d**
- North Carolina  
 Bald Knob, Alleghany County (series from calcite to rhodochrosite) **12:169**
- Ohio  
 Duff quarry, Logan County **18:392**
- Oklahoma  
 Arbuckle Mountains (complex rhombs overgrowing scalenohedrons; fl.) **25:385–386p**  
 Paoli (southeast of), Garvin County **17:374**
- Pennsylvania  
 Delta Carbonate quarry, York County (orange scalenohedral to 20 cm) **25:58**  
 French Creek mine (various colors, habits to 35 cm) **25:112–113d, 25:117p**  
 Phoenixville **20:378**  
 Thomasville Lime & Stone mine, Thomasville, York County (basal twins) **18:361n**  
 Wheatley mine **20:378d**
- South Dakota  
 Elk Creek, Meade County (twisted rhombs) **18:128c,d**  
 Hoover area, Butte County **18:127p, 18:128**
- Tennessee  
 Elmwood mine, Smith County: **19:(210), 20:(391)**; doubly terminated to 23 kg **9:36, 9:37p**; 3 generations, 47 cm doubly terminated twin **9:215–216p**; 20 cm twin on sphalerite **14:370p**
- Texas  
 Bull Creek, Travis County (geodes to 18 cm) **21:484n**  
 Damon Mound, Brazoria County **11:101n**  
 Little 38 mine, Brewster County (after fluorite) **21:230n**  
 Terlingua district (scalenohedral to 30 cm; some with strong UV response) **21:227d**
- Utah  
 Thomas Range and vicinity **10:271**
- Virginia  
 Fairfax quarry, Fairfax County **3:178**
- Washington  
 Skookumchuck Dam, Thurston County **3:31**
- Wisconsin  
 Hurley, Iron County (manganocalcite, spherical) **18:409n**  
 Montreal mine, Iron County (manganocalcite) **11:59n**  
 Rib Mountain, Marathon County (in quartz; some manganoan) **12:96**  
 Vulcan quarry, Racine County (scalenohedral with pyrite-delineated phantoms) **25:380p**
- Wyoming  
 Goshen Hole, Platte County (sand crystals) **21:485n**  
 Green River, Sweetwater County (after shortite) **21:485n**
- Uruguay  
 Locality not specified (amethyst oriented on) **20:236**
- Wales  
 Gwynedd  
 Prenteg **23:396**  
 Tafts Well, near Cardiff (complex groups) **18:432n**
- Zaire  
 Kakanda (calcite-sphaerocobaltite crystals) **22:393n**  
 Mashamba West mine: **22:393**; pink cobaltian, various habits **19:338h, 22:16–17c,q, 22:18–19p**; prismatic yellow to 5 cm **22:217n**; some actually cobaltian dolomite **22:20**
- Mupine mine: **17:207q–208p, 18:(368), 18:411p**; cobaltian **19:338h**; cobaltian, with malachite **17:147m–148p**  
 Pink “cobaltian calcite” id as cobaltian dolomite **23:445–446q**  
 Shaba (formerly Katanga) (cobaltian) **18:162n**  
 Shinkolobwe mine (cobaltian) **20:(146)**
- CALCURMOLITE**
- France**  
 Rabéjac quarry, Hérault: masses **23:433n**; micro **25:209p**
- CALEDONITE**
- Australia**  
 Western Australia  
 Ashburton Downs (minute crystals) **24:209–210p**  
 Bali Lo mine **12:(110)**
- Namibia**  
 Tsumeb (minute crystals) **8:T21**
- Scotland**  
 Strathclyde  
 Leadhills **12:241p, 12:247d**  
 Susanna mine, Leadhills **12:247d**  
 Strathclyde/Dumfries and Galloway  
 Leadhills-Wanlockhead district **12:242**
- Spain**  
 Horcajo mines, Ciudad Real (micro, with linarite; uncertain id) **25:25**
- United States**
- Arizona  
 Grand Reef mine, Graham County (micro crystals) **11:223**  
 Mammoth mine, Pinal County (crystals to 15 mm) **11:162p, 11:172–173d**  
 Rowley mine, Maricopa County: **5:195**; diableite replacing **17:405n**; micro euhedral **5:17p,d, 5:18**  
 Tonopah-Belmont mine, Maricopa County **19:141p, 19:142**
- California  
 Blue Bell mine, San Bernardino County (crystals to 2 cm) **8:495, 8:518p**  
 Empress mine, Inyo County **15:13n**  
 Essex mine, Inyo County **15:13n**  
 Wonder mine, Inyo County **15:(13)**
- Colorado  
 Lillian mine, Lake County **16:(197)**
- Idaho  
 Bunker Hill mine (minute euhedral) **12:345**
- Massachusetts  
 Loudville mine, Hampshire County (micro) **13:46**
- New Mexico  
 Blanchard claims, Socorro County **19:(332), 20:35**  
 Stephenson-Bennett mine, Dona Ana County: **20:27, 20:29**; micro crystals **4:33**
- CALIFORNIA**
- Advance mine, Zaca group, Monitor-Mogul district, Alpine County **22:31, 22:32m**  
 Agoura (southwest of), Los Angeles County **1:114–115, 8:433s**  
 Alameda mine, Tuolumne County **18:38s**  
 Alaska mine, Sierra County **18:38s**  
 Alcalde mine, Grass Valley, Nevada County **18:38s, 18:84s**  
 Alleghany, Sierra County **18:84s**  
 Alpine mine, Monitor-Mogul district, Alpine County **22:32m, 22:34**  
 Alta mine, Antimony Peak, Stayton district **20:430h**  
 Alta troilite mine, southern Del Norte County **6:144s**  
 Altaville Mining & Mfg. mine, Calaveras County **18:38s, 18:83s**
- Amador Queen #2, Amador County **18:38s**  
 Ambrose (Rip van Winkle) mine, Stayton district **15:10h, 20:429–430m,h, 20:434–437s**  
 Amo mine, near Oroville, Butte County **18:83s**  
 Antelope mine, near Loyalton, Sierra County **24:381s**  
 Antimony Peak, west of Frazier Park, Kern County **3:78–81p,h,m,g**  
 Argo mine, Mariposa? County **18:38s**  
 Artru mine, Mariposa County **18:38s, 18:95–96h,g**  
 Baker, between Soda and Silver dry lakes, San Bernardino County **8:282s**  
 Bald Mountain, Browns Flat, Calaveras County **18:38s**  
 Bald Mountain, near Sonora, Tuolumne County **13:394, 18:42s, 18:84s**  
 Bananza mine, Tuolumne County **18:38s**  
 Banghart mine, Shasta County **18:38s**  
 Beebe Hole mine, Jacumba district, San Diego County **8:515s**  
 Belmont Osborn mine, Calaveras County **18:38s**  
 Benitoite Gem mine (Gem mine, Dallas Gem mine, etc.), San Benito County **2:191–192s, 4:236s, 8:432s, 8:442–452p,m,g,h, 8:453–456, 9:114s, 18:360s, 19:269s, 19:325s, 20:157s, 20:236s, 20:387s, 23:208h, 25:211s**  
 Benitoite Gem mine (near) **10:43s**  
 Bennett mine, Zaca group, Monitor-Mogul district, Alpine County **22:31**  
 Bernon mine, Darwin district, Inyo County **15:8h**  
 Bibliography of locality literature **18:213–214**  
 Bibliography of mineral occurrences **8:505–506**  
 Bibliography of mineralogy literature **10:15**  
 Bidley McCarthy mine, Furnace Creek borate area, Death Valley National Monument **5:175–176**  
 Big Creek, Fresno County **8:432h**  
 Big Sandy (James Marshall) mine, El Dorado mine **18:38s**  
 Billie mine, Death Valley **20:70s, 20:387s**  
 Birney mine, near Sawmill Flat, Tuolumne County **18:63s**  
 Birthday Claim Mountain Pass, San Bernardino County **14:239–240s**  
 Black Oak mine, Garden Valley, El Dorado County **18:83s**  
 Black Oak mine, Tuolumne County **18:38s**  
 Blue Bell mine (Hard Luck claims), Soda Mountains, west of Baker, San Bernardino County **8:432s, 8:494–496ff,h,g,m,p, 10:251h**  
 Blue Chihuahua mine, Chihuahua district, San Diego County **8:507–508s, 19:331s**  
 Blue Wing mine, Stayton district, Merced County **20:429m, 20:430h**  
 Bonanza Drift mine, Calaveras County **18:83s**  
 Bonanza mine, Sonora, Tuolumne County: **18:84s**; see also California—Bananza mine  
 Bonanza mine, Trinity County **13:387h, 18:38s**  
 Bonsall, San Diego County **11:14s**  
 Borax Lake, Lake County **6:75h**  
 Borax Lake, San Bernardino County (see Searles Lake)  
 Boron, Kern County: **2:37s, 8:432s, 9:114s, 17:138–140s, 21:481s, 24:311s**; see also California—Kramer borax deposit  
 Boulder Hill mine, Monitor-Mogul district, Alpine County **22:32m, 22:34**  
 Bristol Dry Lake, east of Barstow, San Bernardino County **2:37s, 2:171–173m,p, 23:501–502h**  
 Brunswick shaft (see Idaho-Maryland mine)  
 Brust mine, Kelset district, El Dorado County **18:38s, 18:83s**  
 Bull Creek, Mariposa County **18:83s**  
 Burton mine, Quartz Valley, Siskiyou County **18:38s, 18:84s**  
 Cadmus mine, Nevada mine **18:38s**

## GENERAL INDEX

- California Gold Rush, The* **8:417b**  
 Campbell mine, Quartz Valley, Siskiyou County **18:84s**  
 Cargo Muchacho Mountains, Imperial County **2:225**  
 Carson Hill mine, Calaveras County **18:83s, 18:92h**  
 Cedarburg mine, El Dorado mine **18:38s**  
 Center mine, Trinity County **18:83s**  
 Central Eureka mine, Amador County **18:38s, 18:83s**  
 Cerro Gordo district, Inyo County **8:432s**  
 Champion (Champion Silliminite, Mono County Andalusite, etc.) mine, White Mountains, Mono County **8:390s, 8:478–486p,h,m,g, 18:137s, 18:360s, 19:331s**  
 Champion II mine, Mariposa County **18:92h, 18:95h**  
 Chapman & Fisher mine, Trinity County **18:84s**  
 Christie mine, Fresno County **20:387s**  
 Christmas Gift mine, Darwin district, Inyo County **15:8h**  
 Christmas Hill, Nevada County **18:84s**  
 Christmas mine, Nevada County **18:38s**  
 Christmas pocket, Jamestown mine, Tuolumne County **24:237**  
 City quarry, Riverside, Riverside County **11:14s**  
 Clark mine, Rincon district, San Diego County **8:514s**  
 Clear Creek mine, New Idria district, San Benito County **9:113s, 21:215ff,s, 22:269–272s, 24:471–472**  
 Cloverdale (near), Sonoma County **8:433s**  
 Cloverdale (north of), in Mendocino County **6:300–301s, 9:114**  
 Clyde mine, Sulfur Creek, Colusa County **18:38s, 18:83s**  
 Coalinga asbestos mine, San Benito County **10:247s**  
 Coarse Gold (near), Madera County **11:14s, 13:293s**  
 Coe mine, Nevada County **18:34s, 18:38s**  
 Colorado dike, Mariposa County **18:95–96g**  
 Colorado mines (Upper and Lower) (Tarshish mine), Zaca group, Monitor-Mogul district, Alpine County **22:31, 22:32m**  
 Colorado Quartz mine, north of Mariposa, Mariposa County **8:440, 9:38, 9:192s, 13:347–354h,p,m,g, 18:38s, 18:92h, 18:95–96g**  
 Columbia mine, Darwin district, Inyo County **15:8–10h**  
 Comstock mine, Stayton district, Santa Clara County **20:429m, 20:430h**  
 Confidence mine, Tuolumne County **18:62g,h**  
 Constitution mine, Monitor-Mogul district, Alpine County **22:35**  
 Consummes copper mine, Amador County **11:15s**  
 Corkscrew Canyon, Death Valley, Inyo County **8:431–432s**  
 Corkscrew mine, Furnace Creek borate area, Death Valley National Monument **5:175–177**  
 Corona de Ore mine, Trinity County **18:84s**  
 Coso Hot Springs, Inyo County **8:432s, 9:113s, 16:138s, 16:149s**  
 Cota mine, Mesa Grande district, San Diego County **8:515s**  
 Coyote Front Range, near Bishop, Inyo County **23:423s**  
 Coyote Peak, Humboldt County **14:39–40g**  
 Crestmore quarry, north of Riverside, Riverside County: **9:113s, 22:427–432h,g**; opened to collecting **8:62h**; re-opened to collecting **21:123–124h**  
 Crystalline deposit, near Jamestown (see Jamestown mine)  
 Crystallized gold localities **13:375–387h,g,m, 18:33–40h, 18:38–39s**
- Curtz mine, Morning Star group, Monitor-Mogul district, Alpine County **22:32m, 22:33–34**  
 Custer mine group, Darwin district, Inyo County **15:10h**  
 Dallas Gem mine (see Benitoite Gem mine)  
 Darwin Antimony mine, Darwin district, Inyo County **15:10h**  
 Darwin district, Inyo County: **8:432s, 8:517s, 9:39s, 15:5–18h,m,p,g**; list of 35 mine names **15:10–11**  
 Darwin mine, Darwin district, Inyo County **15:10h**  
 Davis mine, near Placerville, El Dorado County **18:38s, 18:83s**  
 Dedrick, Trinity County **18:84s**  
 Defiance mine, Darwin district, Inyo County **15:8p, 15:10h, 15:11p, 18:148s**  
 DeMarie & Garbe mine, Placer County **18:38s**  
 Diadem Quartz mine, Plumas County **18:38s, 18:84s**  
 Diedesheimer mine, Placer County **18:38s**  
 Diltz mine, Mariposa County **18:38s, 18:90–92h,g**  
 Doctor Hill mine, Calaveras County **18:38s**  
 Dry Gulch mine, El Dorado County **18:38s, 18:83s**  
 Durham mine, Darwin district, Inyo County **15:10h**  
 Dutch-App-Nyman deposit, near Jamestown (see Jamestown mine)  
 Eagle's Nest mine, Placer County **20:387, 24:237s**  
 EDM mine (E.D.M. Quartz mine), Siskiyou County **18:38s, 18:84s**  
 1886 collection sale catalog; 35 CA localities **23:7–13**  
 Elephant mine, Volcano, Amador County **18:83s**  
 Elizabeth R mine, Pala district, San Diego County **8:513s**  
 Emeraldite (Ware) mine, Aguanga district, San Diego County **8:508s**  
 Empire-Star mine, Nevada County **18:38s**  
 Esmeralda mine, Mesa Grande district, San Diego County **8:515s**  
 Essex mine, Darwin district, Inyo County **15:9p, 15:10h**  
 Eureka & Grizzly mine (Harper Bros. mine), Tuolumne County **18:35s, 18:38s**  
 Eureka mine, Tuolumne County **13:377s, 13:381s, 13:386h**  
 Evans mine, Trinity County **18:84s**  
 Evans I mine, Mariposa County **18:95**  
 Exposed Treasure mine, Mojave, Kern County **18:83s**  
 Fair Hills mine, Sierra County **18:83s**  
 Fallbrook area, San Diego County **8:513s**  
 Feather River, Butte County **18:83s**  
 Felix mine, Azusa, San Bernardino County **24:395s**  
 Fernando mine, Darwin district, Inyo County **15:10h**  
 Flint mine, Monitor-Mogul district, Alpine County **22:32m, 22:35**  
 Flowery North mine, Butte County **18:38s, 18:83s**  
 Flying Cloud mine, Siskiyou County **18:38s**  
 Ford Mine (Ladies Canyon), Placer County **18:38s**  
 Forest Hill mine, El Dorado County **18:38s**  
 Four Hills mine, Sierra County **18:38s**  
 Francis mine, Calaveras County **18:38s**  
 Fremont mine, Amador County **18:38s, 18:83s**  
 French mine, Mariposa County **18:38s**  
 Fresno County **9:113s**  
 Galleries mine, Zaca group, Monitor-Mogul district, Alpine County **22:31, 22:32m**  
 Gambetta mine, Madera County **18:38s**  
 Garden Valley mine, El Dorado County **18:38s, 18:83s**  
 Garnet Hill, Calaveras County **18:360s**  
 Gem mine, San Benito County (see Dallas Gem mine)  
*Geology of California* **9:123b**  
 George Hill mine, Placer County **18:38s**
- Georgiana mine, Morning Star group, Monitor-Mogul district, Alpine County **22:32m, 22:33–34**  
 Georgia Slide mine, Placer County **18:38s**  
 German Ridge mine, Calaveras County **18:38s**  
 Geysers, The, Sonoma County **24:339–354h,g,m,p**  
 Gillis mine, Tuolumne County **18:43s**  
 Gleason mine, Antimony Peak, Stayton district **20:431h**  
 Globe (Worden, Manchester, Winchester) mine, Monitor-Mogul district, Alpine County **22:32m, 22:35p**  
 Gold Crown mine, Alleghany, Sierra County **18:38s, 18:84s**  
 Golden Key mine, Mariposa County **18:95**  
 Golden Queen mine, Mohave, Kern County **8:432s**  
 Golden Rule mine, Tuolumne County **13:393s, 18:38s, 18:45g,h, 18:84s, 21:500s**  
 Golden Sheaf mine, Placer County **18:38s**  
 Gold Hill mine, Nevada County **18:38s**  
 Gold-Quartz mine, Nevada City, Nevada County **18:38s, 18:84s**  
 Goyle mine, Trinity County **18:84s**  
 Granite Hill vein, Nevada County **18:38s**  
 Grass Valley, Nevada County **18:38s, 18:39s, 18:83s, 18:84s**  
 Grave Yard Hill **18:37s, 18:38s**  
 Greystone claim, Genesee Valley, Plumas County **11:15s**  
 Grit mine, Spanish Dry Diggings, Greenwood district, north of Georgetown, El Dorado County: **13:382s, 13:386–387h, 18:38s, 18:83s**; cover photo and caption **18:#1s**  
 Groveland (prob. Sullivan mine), Tuolumne County **18:42s**  
 Gwin mine, Calaveras County **18:38s**  
 Gypsy mine, Stayton district **20:429m, 20:431p,h**  
 Haas mine, Trinity County **18:84s**  
 Hale Creek mine, Trinity County **18:341–347m,g,h, 19:128s**  
 Hallelujah Junction, Petersen Range, California-Nevada border **24:227s**  
 Ham & Birney mine, Tuolumne? County **18:38s**  
 Happy Camp mine, Siskiyou County **18:38s**  
 Hard Luck claims (see Blue Bell mine)  
 Hardscrabble (Hardscrabble) mine, Death Valley, Inyo County **8:431s**  
 Harper Brothers mine (see Eureka & Grizzly mine)  
 Harvard mine, Tuolumne County: **18:45h,g**; see also California—Jamestown mine; California—Whiskey Hill  
 Hatchet Creek mine, Trinity County **18:84s**  
 Hayes mine, Trinity County **18:84s**  
 Helvetia mine, Nevada County **18:38s**  
 Hercules mine, Ramona district, San Diego County **8:515s**  
 Hercules mine, Zaca group, Monitor-Mogul district, Alpine County **22:31**  
 Herman Akers claim, San Benito County **10:247s**  
 Hidden Treasure mine, Tuolumne County **18:38s, 18:43–44s**  
 Himalaya dike system, Mesa Grande district, San Diego County: **8:461–474h,m,g**; see also California—Himalaya mine; California—San Diego mine  
 Himalaya mine, Mesa Grande district, San Diego County **8:461–474h,m,g, 8:475h, 8:514s, 10:31–32h, 15:44s, 16:419–424h,g,m,p, 18:360s, 18:362s, 19:331s, 20:399s, 25:381s**  
 Homestake mine, Salmon River, Siskiyou County **18:38s, 18:83s**  
 Hoosier mine, Calaveras County **18:39s, 18:83s**  
 Hosloc mine, Mariposa County **18:39s**  
 Hunt & Ellison mine, Trinity County **18:84s**  
 Hutchinson quarry, Greenbrae, Marin County **20:463s**

## GENERAL INDEX

- Idaho-Maryland mine, Nevada County **18:39s, 18:84s**
- Idaho mine, Grass Valley, Nevada County **18:84s**
- Ida mine, Inyo County **18:39s**
- Imperial Tunnel (Sovereign) mine, Monitor-Mogul district, Alpine County **22:35**
- Independence mine, Darwin district, Inyo County **15:9p, 15:10h,g**
- Independence mine, Siskiyou County **18:39s**
- Independence mine, Winters Creek, Plumas County **18:39s, 18:84s**
- Inyo County **9:113s**
- Irish Creek mine, Placer County **18:39s**
- Iron Side mine, Alleghany, Sierra County **18:39s, 18:84s**
- Jackass Hill mine, Tuolumne County **18:39s**
- Jacksonville (near), Tuolumne County **21:481s**
- James Marshall mine, El Dorado County (see Big Sandy mine)
- Jamestown mine, near Jamestown, Tuolumne County **24:237h,s, 25:7–14h,m,g,p**
- Jardine mine, Zaca group, Monitor-Mogul district, Alpine County **22:31, 22:32m**
- Jensen quarry, near Riverside, Riverside County **15:273–290h,g,m,p**
- John Neale's mine, Tuolumne County **18:39s, 18:83s**
- J-27 pegmatite, near Riverside, Riverside County **17:275s**
- Juan Canyon, Orange County **18:84s**
- Jumper mine, Tuolumne County: **18:39s, 18:45g,h;** see also California—Jamestown mine
- Junnila mine, near New Idria mine, San Benito County **8:519s**
- Kalkar quarry, Santa Cruz, Santa Cruz County **17:315–326m,p,g,h**
- Katrina mine, near Pala, San Diego County **22:381h**
- Kelly-Rand mine, Randsberg, San Bernardino County **8:432s**
- Keystone mine, Amador County **18:39s, 18:83s**
- Klamath River, near Yreka, Siskiyou County **11:14s**
- Knapp's Ranch, Tuolumne County **18:63g**
- Kramer borax deposit, north of Boron, Kern County: **3:165h, 6:84–91h,g,p;** see also California—Boron
- Lafayette mine, Nevada County **18:39s**
- Lakeview Mountain pegmatite, Riverside County **20:387s**
- Landrum mine, Mariposa County **18:95**
- Lane mine, Darwin district, Inyo County **15:10h**
- Last Chance mine, near Louden, Trinity County **18:84s**
- Laytonville district, Mendocino County **8:433s**
- Lazar mine, Tuolumne County **18:39s**
- Lazaro mine, Bald Mountain, Tuolumne County **18:84s**
- Lead Mountain, near Barstow, San Bernardino County **8:432s**
- Leviathan mine, Monitor-Mogul district, Alpine County **22:36**
- Lila C. mine, Ryan, Inyo County **9:379–381h,m,p**
- Lincoln mine, Monitor-Mogul district, Alpine County **22:32m, 22:35**
- Little Cahuilla Mountain, Riverside County **17:341s, 21:482s**
- Little Gem claim, Tuolumne County **18:45h,g**
- Little Nugget mine, Horse creek, Siskiyou County **18:84s**
- Little Three pegmatites, Ramona district, San Diego County **8:515s, 18:360s, 20:101–127p,m,h,g, 23:423s**
- Live Oak mine, Amador County **18:39s**
- Locality index **20:129–142**
- Lone Tree mine **20:437s**
- Lovestedt mine, Zaca group, Monitor-Mogul district, Alpine County **22:31**
- Lower Advance mine, Monitor-Mogul district (see Advance mine)
- Lucky Jim mine, Darwin district, Inyo County **15:10h**
- Lukens Gold mine, El Dorado County **18:39s, 18:83s**
- Mack mine, Rincon district, San Diego County **8:513–514s**
- Mad Canyon mine, Placer County **18:39s**
- Magenta mine, Nevada County **18:35s, 18:38s**
- Mameluke Hill mine, El Dorado County **18:39s**
- Mammoth mine, Shasta County **18:39s**
- Mammoth mine, Trinity County **18:84s**
- Manchester mine, Monitor-Mogul district (see Globe mine)
- Marion mine, Zaca group, Monitor-Mogul district, Alpine County **22:31**
- Mariposa Commercial mine, Mariposa County **18:39s**
- Mariposa mine, Darwin, Inyo County **19:127, 20:(31)**
- Mariposa mine, Stayton district, San Benito County **20:429m, 20:431h**
- Martin & Walling mine, Mariposa County **18:39s, 18:83s**
- Massachusetts (Hill mine), Nevada County **18:39s**
- Mayflower mine, El Dorado County **18:39s, 18:83s**
- McAlpine mine, Tuolumne County **18:64s**
- McLaughlin mine, Napa County **24:222g**
- McLoughlin mine, Lake County **21:256s**
- McMurry & Hupp mine **18:84s**
- Melones Lake, Calaveras County **18:434s**
- Melones mine, Calaveras County **13:393s, 18:39s, 18:83s**
- MGM (Marion Godshaw Memorial) quarry, near Blue Chihuahua mine, San Diego County **21:481–482s**
- Michigan Bluff district, Placer County **13:385h,s,m, 18:34s, 18:38s, 18:92h,s, 18:245s**
- Milne mine, Scotts Bar, Siskiyou County **18:84s**
- Mina Numero Uno, near Benitoite Gem mine, San Benito County **8:447s, 12:184s**
- Minerals of California* **15:47–48b**
- "Minerals of California" theme of 1992 Springfield, MA, show **23:499**
- Miracle Mountain mine, near Volcano, Calaveras County **15:313s**
- Mockingbird mine, Mariposa County **18:39s, 18:92–96p,h**
- Mogul Peak mine, Monitor-Mogul district, Alpine County **22:36**
- Mohawk mine, Clark Mountains, San Bernardino County **8:432s**
- Mokelumne Hill mine, Calaveras County **18:39s**
- Mokelumne placer mine, Nevada County **18:84s**
- Monitor and Northwest Tunnel, Monitor-Mogul district, Alpine County **22:32m, 22:35**
- Monitor-Mogul district, Alpine County **22:29–40h,m,p,g**
- Mono County (Mono County Andalusite) mine (see Champion mine)
- Mono Lake, Mono County **19:332n**
- Morning Star group, Morning Star Mountain, Monitor-Mogul district, Alpine County **22:32m, 22:33–34**
- Morning Star mine, Monitor-Mogul district, Alpine County **22:32m, 22:33–34**
- Mt. Diablo mine, Contra Costa County **8:433**
- Mt. Hamilton, Santa Clara County **5:207s, 8:433s, 12:383s**
- Mt. San Jacinto area, Riverside County **18:360s**
- Mystery Wind tunnel, El Dorado County **25:46s**
- Nevada Hydraulic mine, Chalk Bluff, Nevada County **18:84s**
- New Idria district, San Benito County **8:282s, 8:433s**
- New Melones Lake spillway, near Copperopolis, Calaveras County **13:293–302g,m,p**
- New Method mine, near Amboy, San Bernardino County **10:298s, 16:151s**
- New York claim, Tuolumne County **18:63g**
- Nigger/Negro (Hill) mine, Jamestown, Tuolumne County **18:39s, 18:83s**
- North Gold Hill mine, Nevada County **18:39s**
- North Hill mine, Nevada County **18:39s**
- North Hill, Riverside, Riverside County **11:14s**
- North Star mine, Grass Valley, Nevada County **18:39s, 18:84s**
- Norwegian mine, near Tuttletown, Tuolumne County **18:63s**
- Oceanic mine, San Luis Obispo County **16:55s**
- Opal Hill quarry, Riverside County **21:481s**
- Oriental mine, Sierra County **18:39s**
- Orion mine, Morning Star group, Monitor-Mogul district, Alpine County **22:32m, 22:33–34**
- Orleans, Humboldt County **18:83s**
- Oro Flame mine, Placer County **21:97s**
- Our Chance mine, Mariposa County **18:39s**
- Pala Chief Gem mine, near Pala, San Diego County **8:510–512s, 18:369h**
- Pala, San Diego County **19:17s**
- Palos Verdes Hills, Los Angeles County **4:290–293g,m**
- Patterson mine, Tuttletown **18:64s**
- Peabody mine, Grass Valley, Nevada County **18:84s**
- Pennsylvania mine, Nevada County **18:39s**
- Perovskite Hill, San Benito County **19:331s, 23:423s**
- Petaluma (near), Sonoma County **8:433s**
- Pine Creek mine, Bishop, Inyo County **2:222**
- Plumbago mine, Alleghany, Sierra County **18:84s**
- Point Arena, Mendocino County **20:463s**
- Point Rincon, Ventura County **8:433s**
- Pride mine, Sierra County **18:39s**
- Princeton mine, Mariposa County **18:39s**
- Prominent persons in California mineralogy (profiles) **8:428–430**
- Quartz Hill mine, Siskiyou County **18:39s**
- Queen mine, Sierra County **18:39s**
- Quien Sabe mine, Stayton district **20:429m, 20:431h, 20:434s**
- Rainbow mine, Alleghany, Sierra County **18:39s, 18:84s**
- Rancheria Gulch, Siskiyou County **18:84s**
- Rawhide mine, Tuolumne County **18:41–42h**
- Red Flat mine, Trinity County **18:84s**
- Red Gap mine, Monitor-Mogul district, Alpine County **22:32m, 22:35**
- Red Ledge mine, Washington, Nevada County **10:188s, 13:76s, 18:39s**
- Red Metal mine, Stayton district (see Shriver mine)
- Red Mountain, west of Miner Ridge, Mendocino County **8:497–501h,g,m,p, 12:143**
- Red Star mine, Sierra County **18:39s**
- Rich Gulch mine, Calaveras County **18:39s**
- Rio Vista mine, Calaveras County **18:39s, 18:83s**
- Rip Van Winkle mine, Darwin district (see Ambrose mine)
- Rocky Bar mine, Nevada County **18:39s**
- Rush Creek, Fresno **9:114s**
- Russell mine, Death Valley, Inyo County **8:431s**
- Russian River, Mendocino County: **8:433s, 8:497–498;** see also California—Cloverdale
- Ryan, Inyo County **9:379–381h,m,p**
- Saline Valley, Inyo County **14:55–56s**
- San Benito County **9:113s**
- San Bernardino County **8:432**
- San Diego County: **17:341s;** "best of" **8:507–515**

## GENERAL INDEX

San Diego mine, Mesa Grande district, San Diego County **8**:461–474h,m,g  
 San Francisco (near), Marin County **8**:433s  
 San Jacinto Mountains, Riverside County **18**:148s  
 Santa Cruz County **9**:113s  
 Santa Monica Mountains, Los Angeles County **19**:31s  
 Sausalito (south of), Marin County **2**:166–168s  
 Scadden Flat mine, Nevada County **18**:39s  
 Schroeder mine, Saxon Creek, Mariposa County **18**:83s  
 Searles Lake (Borax Lake), San Bernardino County: **3**:165h, **6**:74–83g, **8**:431, **8**:517s, **22**:381s; see also California—Borax Lake, Lake County  
 Secret Canyon mine, Sierra County **18**:39s  
 Sell mine, Tuolumne County **18**:63s  
 Sheep Ranch mine, Calaveras County **18**:39s  
 Shepard mine, El Dorado County **18**:39s  
 Shore mine, Tuolumne County **18**:39s  
 Shriver (Red Metal) mine, Stayton district **20**:429m, **20**:431h  
 Sickler mines, Heriart Mountain, Pala, San Diego County **14**:371s  
 Siedesheimes mine, Placer County **18**:39s  
 Siegler Canyon, Lake County **8**:433s  
 Sierra mine, Sierra County **18**:39s  
 Silver Gance mine, Zaca group, Monitor-Mogul district, Alpine County **22**:31  
 16 to 1 mine, Sierra County **12**:388s, **18**:34h, **18**:82s, **18**:92h  
 Slover Mountain, San Bernardino County (across county line from Crestmore quarry) **23**:444s  
 Smith & Watrous mine, Trinity County **18**:83s  
 Snow Summit mine, Nevada County **18**:39s  
 Socrates mine, Sonoma County **8**:433s, **21**:215ff  
 Soda Lake, Carrizo Plain, San Luis Obispo County **6**:76s  
 Soulsby mine, Tuolumne County **18**:62g,h  
 Southern Pacific Silica quarry, Nuevo, Riverside County **7**:182s  
 Sovereign mine, Monitor-Mogul district (see Imperial Tunnel mine)  
 Special issue **8**:#6  
 Species first described from California, history and 1971 status of 102 names **2**:152–161  
 Specimen (Byrd's Valley) mine, Placer County **18**:39s  
 Spring Valley mine, Cherokee, Butte County **18**:83s  
 Stanislaus mine, Calaveras County **13**:393s  
 Stayton district, Merced/Santa Clara/San Benito counties **20**:427–438p,m,h,g  
 Stayton mine, Stayton district, Merced County **20**:427–438p,m,h,g  
 Steven's ranch, Rincon district, San Diego County **8**:514s  
 Steve's Cut mine, Zaca group, Monitor-Mogul district, Alpine County **22**:31, **22**:32m  
 Stewart mine, Pala district, San Diego County **4**:116s, **7**:309h, **8**:508s, **16**:348s, **19**:331s, **20**:399s, **21**:481s  
 Stinson Beach, Marin County **11**:14s  
 Stuckslager mine, Coloma, El Dorado County **18**:39s, **18**:83s  
 Sugarman mine, Tuolumne County **18**:39s  
 Sullivan mine (prob.), Groveland, Tuolumne County **18**:42s  
 Sulphur Hole, Calico Mountains, San Bernardino County **6**:106  
 Table Mountain, Tuolumne County **18**:63g  
 Tarshish mine, Monitor-Mogul district (see Colorado mine)  
 Taylorville (near), Genesee Valley, Plumas County **11**:15s

Terry borate mine, Amargosa Desert, Inyo County **8**:503–504g  
 Thompson mine, Darwin district, Inyo County **15**:10h, **15**:11p  
 Thompson mine, northwest of Ryan, Furnace Creek Wash, Inyo County **4**:21–23h,g, **5**:67–73h,p,g  
 Thornberry Mountain, near Coarsegold, Madera County **21**:127–132h,m,p  
 Tick Canyon, Los Angeles County **8**:433s  
 Tightener mine, Sierra County (cover photo) **16**:#3s  
 Tourmaline King mine, Pala district, San Diego County **8**:508–510s  
 Tourmaline Queen mine, Pala district, San Diego County **3**:65, **8**:508s, **12**:184s, **20**:354s  
 Trinity County **9**:113s  
 Tuolumne County (localities not specified) **13**:380–381s, **18**:41–45, **18**:62–64h,m,g  
 Union mine, Calaveras County **18**:39s  
 Upper Gold Bluff, Humboldt County **18**:83s  
 Vandenberg mine, Pala district, San Diego County **8**:512–513s  
 Victor mine, San Benito County **9**:114s  
 Walnut Creek, Contra Costa County **20**:337–338m,p,h,g  
 Ward mine, Trinity County **18**:84s  
 Ware mine, San Diego County (see Emeraldite mine)  
 Whisky Hill (including Harvard mine), Tuolumne County: **18**:39s, **18**:45h,g; see also California—Jamestown mine  
 White Oak and White Oak Extension mines, Mariposa County **18**:95  
 White Queen mine, Pala district, San Diego County **8**:512s, **18**:369–372h, **19**:211s, **20**:399s  
 White River, Tulare County **18**:84s  
 Winchester mine, Monitor-Mogul district (see Globe mine)  
 Wood's Creek, Tuolumne County **18**:41h  
 Worden mine, Monitor-Mogul district (see Globe mine)  
 Yankee John mine, near Redding, Shasta County **18**:39s, **18**:84s  
 Yellow Jacket mine, Stayton district, Merced County **20**:429m, **20**:432h  
 Zaca group, Monitor-Mogul district, Alpine County **22**:31–33m,h  
 Zinc Hill mine, northeast of Darwin, Darwin district, Inyo County **6**:110–113g, **15**:10h

### CALLAGHANITE

**United States**  
 Nevada  
 Gabbs Refractories mine, Nye County **16**:44h

### CALOMEL

Toxicity **11**:7  
**Spain**  
 Almadén, Ciudad Real **19**:(300)  
**United States**  
 Texas  
 Terlingua district (prismatic to 15 mm) **8**:20–22d,p  
 248 mine, Brewster County (euhedral; some fl. red) **21**:228–229d,p

### CALUMETITE

**United States**  
 Michigan  
 Centennial #1 & #2 mines, Houghton County: **8**:(390); prob. post-mining **23**:M55

### CALZIRITITE

**Brazil**  
 São Paulo  
 Jacupiranga mine (complex crystals to 5 mm) **15**:267–268p

### CANADA

*See also names of provinces*  
*Famous Mineral Localities of Canada* **21**:485b  
 Western mineral occurrences (10 localities) **15**:89–94m,p

### CANAPHITE

**United States**  
 New Jersey  
 Great Notch quarry, Great Notch, Passaic County **18**:252–253  
 Haledon, Passaic County (newly described) **16**:467–468h,p,c,q

### CANCRINITE

**Canada**  
 British Columbia  
 Ice River complex (massive) **12**:224  
 Ontario  
 Bancroft (near) (several localities) (yellow masses) **13**:85n  
 Davis Hill (masses) **21**:244n  
 Gooderham (near) (pink) **13**:85n  
 York River tectite zone, near Bancroft **13**:227n  
 Québec  
 Mt. St-Hilaire: **13**:(242); prismatic to 2 cm **21**:301c  
**Germany**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district (“meionite” id as) **8**:321d

### Greenland

Grønnedal-Ika complex (grains) **24**:G47n

### United States

New Mexico  
 Point of Rocks quarry, Colfax County (crystals to 2 cm) **15**:151–152p

### CANFIELDITE

**United States**  
 Arizona  
 Campbell shaft, Bisbee district **12**:298  
 Nevada  
 Dean mine, Battle Mountain, Lander County **20**:(390)

### CAPGARONNITE

**France**  
 Cap Garonne mine, Var **23**:(434)

### CARACOLITE

**Chile**  
 Mina Herminia, Sierra Gorda (micro crystals) **11**:101p, **11**:102c

### CARBOCERNAITE

**Canada**  
 Québec  
 Poudrette quarry: **19**:334n; UK#40 id as; grains **21**:301

### CARBON (AMORPHOUS)

**United States**  
 Colorado  
 Italian Mountain area, Gunnison County (previously id as graphite) **15**:81

### CARBONATE-APATITE

*See also Apatite; Carbonate-fluorapatite; Carbonate-hydroxylapatite*  
 Guide to apatite species nomenclature **8**:78–82

### United States

Maine  
 Newry area (micro crystals, botryoids) **6**:196–197p, **6**:198  
 New Hampshire  
 Palermo #1 pegmatite **4**:232  
 New York  
 Sterling mine, Jefferson County (micro) **15**:203p,c,q

- Wyoming  
Shell, Big Horn County (after spherical pyrite aggregates to 3 cm) **21:485n**
- CARBONATE-CYANOTRICHITE**
- See also Cyanotrichite*
- France**  
Val Croze, Gard **23:434n**
- New Zealand**  
Maharahara mine, North Island **17:203q,p**
- United States**  
Arizona  
Cole shaft, Bisbee district **12:298**  
Holbrook shaft, Bisbee **24:427p, 24:428**  
Lavender pit, Bisbee district **12:298**  
Massachusetts  
Chester emery mines **9:240**
- CARBONATE-FLUORAPATITE**
- Canada**  
Québec  
Mt. St-Hilaire (carbonate-fluorapatite; tabular to 5 mm) **21:301**  
Yukon  
Rapid Creek area (crusts, nodules) **23:Y21**
- United States**  
New Mexico  
Hansonburg district, Socorro County **20:36-37q**  
Point of Rocks quarry, Colfax County **15:152**  
Utah  
Fairfield (near) (“lewistonite,” “dermite” id as; micro euhedral) **11:33-34p,h**  
Gold Hill mine (minute mass) **24:20**
- CAI SUOUMITE-HYDROXYLAPATITE**
- United States**  
Maine  
Bennett quarry (crusts) **25:179**  
South Dakota  
Tip Top mine **17:240, 17:250**
- CARBURAN**
- Hydrocarbon*
- Greenland**  
Randbøldal area (globules) **24:G49**
- CARLETONITE**
- Canada**  
Québec  
Mt. St-Hilaire: crystals to 1 cm **25:379n**; prismatic to 6 cm **21:301-302p,c,d**  
Poudrette quarry **18:363n, 19:116n, 19:209p, 19:334n**
- CARLFRIESITE**
- Mexico**  
Sonora  
Moctezuma mine **8:(390)**
- CARLHINTZEITE**
- Germany**  
Bavaria  
Hagendorf (announced) **10:301h,q,c**
- CARLINITE**
- Toxicity **11:7**
- United States**  
Nevada  
Carlin mine, Eureka County **16:44h**
- CARMINITE**
- Australia**  
New South Wales  
Kintore opencut, Broken Hill **19:429p**  
Western Australia  
Anticline prospect, Ashburton Downs (massive; minute prismatic) **24:209, 24:210p**
- England**  
Cornwall  
Penberthy Crofts mine, St. Hilary **20:395**
- Namibia**  
Tsumeb: **9:(114)**; acicular to 1 cm **8:T21n, 8:T49, 8:T80p**
- United States**  
Nevada  
Killie mine, Elko County **18:416-417p,c**  
San Rafael mine, Nye County (covered with gypsum) **21:484n**  
Utah  
Central Eureka mine, Eureka **3:37n**  
Gold Hill mine (acicular) **24:17, 24:18p**
- CARNALLITE**
- Canada**  
Saskatchewan  
PCS Rocanville mine (crystals to 3 cm) **24:385n**
- CARNOTITE**
- Australia**  
South Australia  
Moonta mines **19:(412)**
- Gabon**  
Mounana (nodules; minute crystals) **6:241c**
- Italy**  
Sardinia  
Aru su Linnarbu, near Capoterra, Cagliari **18:(184)**
- United States**  
California  
Cargo Muchacho Mountains, Imperial County (films) **2:225**  
Colorado  
Peanut mine, Montrose County **18:338p**  
New Mexico  
Cerro Colorado, Bernalillo County **20:61**  
San Marcial quarry, Socorro County **20:61n**
- Zaire**  
Mashamba West mine (2 mm tabular or bladed) **22:17, 22:19p**
- CARPOLITE**
- United States**  
Idaho  
Centerville, Sawtooth Mountains **19:332n**  
Sawtooth Mountains: micro acicular **24:192**; tufts **21:483n**
- CARRBOYDITE**
- Australia**  
Western Australia  
Carr Boyd deposit **8:(517)**  
132 North deposit, Widgiemooltha district (coatings; 7 mm veins) **25:287**
- CARROLLITE**
- Locality not specified (crystals to 2 cm) **12:185**
- Namibia**  
Tsumeb (nickelian, “sychnodymite”; minute crystals) **8:T21**
- Zaire**  
Kambove (1 cm crystals) **15:168p**  
Kamoto Fond mine (lustrous 1 cm crystals) **22:53, 22:54p**  
Mashamba mine **20:146**  
Shaba (formerly Katanga) **18:162n**  
Shinkolobwe mine **20:(276)**
- CARTOONS AND HUMOR**
- See also Departments and Columns—Mineral Stories*
- “. . . and in 1/100,000 of a second, it can compound the programmer’s error 87,500 times!” **9:257**  
*Crystal Quest I* **22:309b**  
*Encyclopedia of Rocks and Minerals* (Cracker Jack prize, prob. by Herbert S. Zim) **7:318b**  
“Ever since that article in the *Min. Record* on trimming I seem to be accumulating larger specimens!” **18:170**
- Glossary of research definitions **7:126**  
“Gold—or ants?” **11:324**  
“I think you should be more explicit here in step two.” **9:257**  
Laws of collecting **10:195**  
*Mineralogical Record* advertisements **5:196-197, 5:247, 25:144-145, 25:302**  
“Miss Eisenhart, considering the weather, I’ve decided to take the afternoon and February off.” **18:241**  
*Murphy’s Law and Other Reasons Why Things Go Wrong!* **9:383-384b**  
Proposed designations for non-collectors **10:251**  
“Then a miracle occurs . . .” **9:257**  
“This one just says Fold.” **17:345**  
“We know he didn’t discover that new virus—we’re just naming it after Rheinblatt because it looks like Rheinblatt.” **9:257**  
“We’ve been digging this tunnel for seven hours and haven’t found a thing. Let’s go home.” **8:31**  
*What’s so Funny About Science?* **9:257b**
- CARYINITE**
- Sweden**  
Långban **10:216**
- CARYOPILITE**
- South Africa**  
Cape Province  
N’Chwaning I mine: **23:(436)**; fibers **22:283**; “leucophoenicite” id as **24:393n**  
Wessels mine (coatings) **22:283**
- United States**  
New Jersey  
Bald Knob, Alleghany County (micro rosettes) **12:171**  
Franklin **19:(274)**
- CASCANDITE**
- Italy**  
Lombardy  
Baveno area, **14:162, 14:163d**  
Cava Diverio, Baveno (micro drusy) **24:236**
- CASSITERITE**
- Afghanistan**  
Nuristan, Laghman (10 cm complex twin) **14:(372p)**
- Australia**  
New South Wales  
Ellsmore **15:119, 20:(393)**  
Tin shaft, Kingsgate mines **16:(279)**
- Bolivia**  
Antequera district, Oruro Dept. (ferroan, “souxite”; massive) **6:136**  
Locality not specified **6:134**  
Montserrat mines, Oruro Dept.: acicular **4:278**; yellow needles **5:164n**  
Numerous major localities **8:52-57c,d,p**  
Oruro Dept. (numerous localities) (crystals; “needle tin”) **6:134-136p**  
Viloca (Araca) mines, La Paz district: **5:164, 11:322p, 18:365n, 20:(394)**; crystals to 5 cm **4:278**; crystals, twins to 1.5 cm **25:60**
- Brazil**  
Minas Gerais  
Companhia Estanífera mine, Itinga **2:10n**  
Córrego do Urucum pegmatite (scattered grains) **17:309n**  
Cruzeiro mine (patches) **11:370**  
Fazenda do Funil (13 cm crystal) **11:356, 11:358p**  
Jaguaraçu mine (anhedral) **25:168**  
Jove Lauriano mine, near Linópolis **14:(235), 20:(187)**  
Lavra Jabuti, Baixio (wodginite epitaxial on; crystals to 4 cm) **9:14-18p,q,c**

## GENERAL INDEX

- Olho D'Agua mine, Itinga **2:10n**  
Pamaró mine, near Linópolis **14:(235)**  
Resplendor: **20:394**; micro **21:253n**  
Telfrío mine, near Linópolis **14:(234)**  
Urubu pegmatite, Araçuaí area (rare euhedral) **12:77**  
Virgem da Lapa pegmatites **13:27, 13:28p**
- China**  
Leiyang, Shaoyang, Hunan **20:(394)**
- Czech Republic (formerly Czechoslovakia)**  
Horní Slavkov (near) (5 cm crystals) **13:179n**  
Slavkov (formerly Schlaggenwald) **19:122n**
- England**  
Cornwall  
Ancient alluvial mining **25:68h**  
Botallack district (crystals to 5 mm) **24:279**  
Locality not specified (after orthoclase) **20:(147)**  
Wherry mine, near Penzance **4:80**
- France**  
Carrière Quilly, La Villeder, Morbihan (4 cm crystals) **23:434n**
- Italy**  
Lombardy  
Baveno area (twins to 5 mm) **14:162**  
Tuscany  
San Piero in Campo area, Elba (usually twinned) **16:358d**
- Korea**  
Taewha mine, Chungchongpukdo **5:222n**
- Mongolia**  
Bain Mod, Tshenhermandal, Hentiy district **13:179n, 19:124n**
- Pakistan**  
Stak Nala, Gilgit division **16:403**
- Portugal**  
Panasqueira mine (to 3 cm; "cross-bit" twins) **2:75p**
- Russia (formerly USSR)**  
Chukotka, Magadan Oblast **25:46, 25:218n**  
Iliutin mine, Chukotka (crystals to 4 cm) **25:381**  
Merek, Khabarovskiy Krai; brown **23:430p, 23:433n**; clear yellow to 2 cm **23:280n**  
Tengerkin tin mine, Chukotka: **25:139p**; crystals to 11 cm **25:47n**
- Spain**  
Orense, Orense province **19:338n**
- United States**  
Arizona  
Campbell shaft and Southwest mine, Bisbee (grains) **24:428n**  
California  
Himalaya dike system, San Diego County (euhedral to 2.5 cm) **8:472, 8:473p**  
Kalkar quarry, Santa Cruz County (grains) **17:321**  
Little Three pegmatites, San Diego County **20:121**  
Colorado  
Crystal Peak area, Park/Teller counties (15 mm crystal) **16:228, 16:229p**  
Park County (locality not specified) (2.5 cm crystals) **3:180p**  
Pikes Peak batholith **10:377**  
Connecticut  
Gillette quarry, Middlesex County (to 1 cm) **23:25p**  
Idaho  
Sawtooth batholith (micro crystals) **24:192**  
Maine  
BB #7 quarry, Oxford County **16:(375)**  
Bell Pit, Oxford County (micro euhedral) **1:114p**  
Bennett quarry, Oxford County (some crystals) **25:179**  
Martin prospect, Oxford County (5 cm brilliant cluster) **24:382**  
Mt. Mica, Oxford County **16:372n**  
Pulsifer quarry, Androscoggin County **16:(375)**  
Nevada  
Majuba Hill mine (druses) **16:62**  
New Hampshire  
Government pit, Carroll County **14:(47)**  
Moat Mountain (north of), Carroll County **17:(342)**  
New Mexico  
Beaverhead, Catron County (red micro crystals) **16:139p, 16:140**  
Harding mine (unconfirmed) **8:124n**  
Paramount Canyon bixbyite locality, Sierra County **20:60**  
South Dakota  
Tip Top mine **17:(239)**  
Utah  
Thomas Range **17:342n**  
Virginia  
Herbb #2 mine, Powhatan County (9 cm crystal) **14:389–390p**
- CATALOGING COLLECTIONS**  
Cataloging collections **7:49–50**  
Catalog numbers, reasons and method for applying **2:249–251**  
Computerized collection cataloging **25:82–83**  
Cross-referencing specimens to *Mineralogical Record* **19:341**
- CATAPLEIITE**  
 $\alpha$ -catapleite described as gaidonnayite **5:125–126h, 21:310–311h**
- Canada**  
Québec  
Mt. St-Hilaire: **10:104p, 13:246–247p, 23:499–500p**; 15 cm crystal **23:427p, 23:429**; rosettes to 15 cm **21:302p, 21:304p**; 7 cm rosette **8:391p**  
Poudrette quarry: **18:363n, 19:(334)**; 10 cm rosettes **17:339n**
- Greenland**  
Narsarsúk pegmatite:  $\alpha$ -,  $\beta$ -catapleite **5:120–121d,c,q, 5:125–126h**; tabular to 5 cm;  $\alpha$ -catapleite id as gaidonnayite **24:G44–45d,h, 24:G46p**
- United States**  
Colorado, Wyoming, Utah  
Green River formation **8:368–371**  
New Mexico  
Wind Mountain, Otero County **20:60n**
- CATOPTRITE**  
*See Katoptrite*
- CATTIERITE**  
**United States**  
North Carolina  
Bald Knob, Alleghany County (grains) **12:171**
- Zaire**  
Shinkolobwe mine, Shaba **20:276**
- CAVANSITE**  
**India**  
Poona (near) **8:61–62h,p, 20:234p, 20:396, 20:484, 20:485p**  
Wagholi quarries **22:415–420h,p**
- United States**  
Oregon  
Goble, Columbia County: **20:234**; newly described, micro prismatic **5:74h,c,q,d**  
Owyhee Dam, Malheur County **20:234**
- CAVES**  
Collecting in limestone caves discouraged **19:267**  
Mineral occurrences in caves, Bisbee, AZ, district **12:287–289p**
- CELADONITE**  
**United States**  
Arizona  
Bisbee district **12:(298)**  
Malpais Hill, Pinal County (acicular; uncertain id) **14:111p**  
New Mexico  
Gila River, Grant County **20:59n**
- CELESTINE (CELESTITE)**  
**Australia**  
South Australia  
Wallaroo mines **19:(412)**
- Austria**  
Bleiberg district **17:360c**
- Canada**  
Ontario  
Amherstburg quarry, Amherstburg **20:391**  
Dundas quarry, Dundas **20:391**  
Keene mine, Madoc area: grey fibrous **13:88**; 2.5 cm blue crystals **13:91c**  
Steeley quarry, Dundas (micro) **13:112n**  
Québec  
Mt. St-Hilaire: **19:364n**; minute aggregates **21:302**  
Yukon  
Rapid Creek (single grain) **23:Y19**
- England**  
Stafford  
Ecton Hill (12 mm crystals) **14:22–23p**
- Italy**  
Tuscany  
Boccheggiano and Niccioleta mines (crystals to 4 cm) **10:284, 10:285p**  
Carrara region **18:286c,d**  
Cetine mine **15:33p**  
La Facciata quarry **18:286p**  
Lucchetti quarry **18:280p**
- Kyrgyzstan (formerly USSR)**  
Locality not specified (gemmy to 2 cm) **9:367n**
- Libya**  
Marada area (euhedral crystals to 10 cm) **14:388p**  
Sebha (near) **18:159**
- Madagascar**  
Sakoany mine, Majunga **18:244, 19:337n**
- Netherlands**  
Winterswijk, Gelderland **18:432n**
- Poland**  
Machow mine, near Tarnobrzeg: **20:72n, 20:237**; white, yellow, blue to 10 cm **23:31–32p**
- Russia (formerly USSR)**  
Archangel, Siberia (zoned clear, brown, blue, to 5 cm) **25:140–141n**
- South Africa**  
Cape Province  
N'Chwaning I mine **22:283–284**  
Wessels mine **22:283–284**
- Switzerland**  
Bernese Jura, Jura Mountains (5 mm prismatic) **6:306p**
- United States**  
California  
Russell mine, Inyo County **8:431n**  
Thompson mine, Inyo County **5:72**  
Colorado  
Cresson mine, Teller County (1 cm crystals) **16:236**  
Illinois  
Annabel Lee mine, Hardin County: **17:147n**; 5 cm crystals **21:483n**  
Indiana  
Hoosier Stone and Concrete Corp. quarry, Washington County (5 cm euhedral) **14:8–11d,c,p**  
Kentucky  
Muldraugh geode locality **23:(424)**



- Michigan  
Scofield quarry, Maybee, Monroe County  
7:12p, 9:36
- New Jersey  
Franklin (micro euhedral) 5:36q, 5:37d
- New Mexico  
Hansonburg district, Socorro County 20:35
- Ohio  
Clay Center (white prismatic topped with calcite rhomb) 8:60–61p  
Maumee Stone Co. quarry, Wood County (fat tabular) 6:38p  
Portage, Wood County (crystals to 38 cm) 17:147–148p  
Sandusky County (locality not specified) (elongated, to 20 cm) 22:384  
White Rock quarry, Clay Center, Ottawa County: to 7 cm 23:425n; to 30 cm 22:216
- Pennsylvania  
Showalter quarry, Lancaster County (blue-white equant, yellow tabular, white-tan prismatic, all micro) 2:211c
- Texas  
Adamsville, Lampasas County (crystals to 8 cm) 24:48  
Bull Creek, Travis County 21:484n
- Utah  
Bluebird mine, Emery County 18:361n  
Radon mine, near Moab, San Juan County 17:132
- 
- CELSIAN
- United States**  
California  
Kalkar quarry, Santa Cruz County 17:324n
- Wales**  
Gwynedd  
Benalt mine, Rhiw (to 2 mm) 22:390n
- 
- “CERARGYRITE”
- See *Chlorargyrite*
- 
- CERITE-(Ce)
- Canada**  
Québec  
Mt. St-Hilaire: 19:364n; 1 mm hexagonal plates 21:302–303
- Sweden**  
Riddarhyttan, Västmanland 19:294h
- 
- CERNYITE
- Canada**  
Manitoba  
Bernic Lake pegmatite 17:(297)
- United States**  
South Dakota  
Hugo mine, Pennington County (with kesterite) 17:297
- 
- CEROTUNGSTITE-(Ce)
- Central African tungsten province 12:86–87p,q
- 
- CERULEITE
- Australia**  
Western Australia  
Bali Lo prospect, Ashburton Downs (powder) 24:210
- Chile**  
Emma Luise mine, near Huanuco, Taltal province (massive) 21:488
- 
- CERUSSITE
- Australia**  
New South Wales  
Broken Hill: 7:30, 19:(371), 19:(372p), 19:424n; after anglesite 24:227n; room-sized reticulated mass 4:5  
Kintore, Broken Hill opencut (hydrocerussite after) 19:430
- Northern Territory  
Brown’s deposit, near Rum Jungle: 12:110n; twinned 11:289, 11:290p
- Queensland  
Mt. Isa mine (some reticulated) 19:479
- Tasmania  
Adelaide mine: twinned 19:385; yellow, chromian 8:25  
Comet mine (reticulated) 19:384d  
Dundas area mines: 12:108–109, 19:387p; 5 cm jackstraw crystals 1:113n  
Kapi mine 19:387p  
Magnet mine (twinned, yellow) 19:384–385d
- Western Australia  
Ashburton Downs 24:210
- Austria**  
Bleiberg district 17:362c,d,p  
Knappenwand, Salzburg 17:17n
- Bolivia**  
San José mine, Oruro district (sharp, groups to 4 cm) 6:136
- Brazil**  
Bahia  
Boquira mine, near Oliveira do Brejinho (bladed to 5 cm) 6:283p
- Minas Gerais  
Jaguaraçu pegmatite (nodules of cerussite/pyromorphite) 25:168
- São Paulo  
Santana Nova prospect, near Lageado (V-twins to 10 cm) 6:283
- Canada**  
British Columbia  
Beaver Group, Kaslo-New Denver area 2:209  
Betty group, Betty Glacier, north of Divide Lake 15:(91)  
Ice River complex (coating galena) 12:224  
Society Girl mine, near Moyie: 15:93n; twinned 2:208
- Québec  
Mt. St-Hilaire (minute acicular) 21:303
- Chile**  
Chuquicamata 9:324
- Congo**  
Sanda mine, Mindouli region (twinned) 24:394n
- England**  
Cornwall  
Pentire Glaze, St. Minver 25:(44)
- Cumbria  
Roughton Gill mine, Caldbeck Fells (pyromorphite after) 22:120
- Derby  
Wirksworth 14:20
- Somerset  
Merehead quarry, near Cranmore (some after hydrocerussite) 8:301–302
- France**  
Les Farges mine, Corrèze 13:(267)  
Saint-Pons (near), Haute-Provence (replacing sulfosalts) 24:42n
- Greece**  
Laurium area: massive; minute twins; crystals in slag 7:124; various colors and habits 17:183n
- Germany**  
Rheinland-Pfalz  
Friedrichsseggen mine (prismatic, reticulated, twinned; some replaced by anglesite or pyromorphite) 15:334–335d
- Italy**  
Sardinia  
Monteponi, Iglesias 20:(152)  
Sa Duchessa mine (reticulated) 15:372n  
Seddas Moddizis mine (micro brown) 15:372n  
Su Corovau mine (5 mm white) 15:372
- Tuscany  
Calagio quarry 18:285  
Fantiscritti quarries 18:285
- Mexico**  
Chihuahua  
Los Lamentos (“cerussite sand”) 11:284
- Sonora  
Aconci (wire silver on) 15:113p
- Morocco**  
Touissit: 20:69n, 20:396n; crystals to 6 cm 11:114; 10 cm V-twins 14:173, 14:174p; V-twins 15:347n; V-twins to 7 cm 12:184p
- Namibia**  
Kombat mine 20:397  
Tsumeb: 20:(397); crystals to 60 cm, some reticulated 8:T21, 8:T49, 8:T63–65p; hydrocerussite after euhedral 13:140p; malachite in 8:T100p; on galena 8:T60p
- New Zealand**  
Tui mine (masses; clear euhedral to 1 cm; jackstraws to 8 cm) 6:28p, 6:30
- Scotland**  
Dumfries and Galloway  
Belton Grain vein, Wanlockhead 12:243p  
Wanlockhead 12:241p  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district 12:242–243p,d
- Slovenia (formerly Yugoslavia)**  
Mežica mine (10 mm brilliant) 22:101n
- Spain**  
Horcajo mines, Ciudad Real 25:25
- United States**  
Arizona  
Atlanta claim (Hendricks Gulch), Bisbee district (sand) 12:298  
Bisbee district 12:298, 24:428  
Campbell shaft, Bisbee district (singles to 1 cm, sixlings) 12:298  
C & B mine, Gila County: replacing lanarkite 11:216p; untwinned 6:109d,c; various habits, twins 11:214, 11:217p  
Cole shaft, Bisbee district (V-twins to 5 cm) 12:299  
Defiance mine and vicinity, Cochise County (granular) 11:205  
Fat Jack mine, Yavapai County (some 2 cm crystals; fl. orange) 22:25  
Flux mine, Santa Cruz County: 12:(185p); jackstraw 12:117–118p  
Grand Reef mine, Graham County: 25:211; sixlings to 2.5 cm, chrysocolla after 11:222–223  
Grey Horse mine, Pinal County (micro sixlings) 11:232n  
Hamburg mine, La Paz County (replacing galena) 11:138  
Hilltop mine, Cochise County 14:(124)  
Mammoth mine, Pinal County (twinned, reticulated) 11:162p, 11:165–166d, 11:168  
Nugget Fraction mine, Pinal County 15:(43)  
Old Yuma mine, Pima County (1 cm twinned) 14:101p, 14:106n,d  
Red Cloud mine, La Paz County (crystals to 4 mm) 11:147–148  
Rowley mine, Maricopa County (massive; micro crystals) 5:17  
79 mine (granular; V-twins to 1.3 cm; jackstraw) 3:251c, 3:261p  
Shattuck shaft, Bisbee district (sand, sixlings) 12:299  
Silver Bill mine, Cochise County (“sand”; loose reticulated clusters) 14:128  
Silver Hill mine, Pima County (micro sixling) 11:261n  
Tonopah-Belmont mine, Maricopa County 19:142

## GENERAL INDEX

- California  
 Blue Bell mine, San Bernardino County (1 cm crude crystals) **8:495**  
 Defiance mine, Inyo County **15:14n**  
 Essex mine, Inyo County **15:14n**  
 Kalkar quarry, Santa Cruz County **17:322, 17:323p**  
 Little Three pegmatites, San Diego County **20:121**  
 Thompson mine, Inyo County **15:14n,p**
- Colorado  
 A. Y. and Minnie mine, Leadville district (crystals to 15 cm) **7:289**  
 Bandora mine, San Juan County **19:243–244p,c**  
 Bulldog mine, Mineral County (crystals) **7:297**  
 Carbonate Hill, Leadville district (jackstraw) **23:423**  
 Italian Mountain area, Gunnison County (needles) **15:81**  
 Leadville district, Lake County (argentic; various habits) **16:192**  
 Little Jonny/Ibex mine, Leadville district (jackstraw) **16:(190)**  
 Morning Star/Evening Star mines, Leadville district (prismatic) **16:192n**  
 National Belle mine, Ouray County (massive) **17:233n**  
 Pikes Peak batholith (massive) **10:376**  
 San Juan Mountains **10:358n**  
 Stone mine, Lake County (jackstraw) **16:192n**  
 Tucson mine, Leadville district (jackstraw) **16:181n**
- Idaho  
 Bunker Hill mine: **25:59p, 25:60, 25:211, 25:380p**; after hydrocerussite **12:345p**; bladed, to 5 cm **13:284**; many habits, twins, etc., some fl. yellow **12:342–344p**  
 Caledonia mine, Shoshone County: **13:(282)**; large glassy, some white jackstraw **12:344**  
 Hercules mine, Shoshone County **13:280n**  
 Senator Stewart mine, Shoshone County **13:283n**  
 Sierra Nevada mine, Shoshone County (twins to 7.5 cm) **12:343**  
 Tyler mine, Shoshone County (reticulated; sixlings) **12:343**
- Massachusetts  
 Loudville mine, Hampshire County: numerous habits to 2 cm, some red pseudos after unknown, stolzite id as **6:295–296, 6:297d**; 7 mm reticulated **13:46p**
- Montana  
 Black Pine mine, Granite County **23:480p, 23:482**
- Nevada  
 Chalk Mountain mine, Churchill County (massive after galena) **13:221**  
 Killie mine, Elko County (massive after galena, some crystals) **18:418**  
 Outlaw mine, Nye County **22:179c**
- New Mexico  
 Blanchard mine, Socorro County (V-twins to 6 cm) **22:384**  
 Carnahan mine, Santa Fe County (after anglesite) **20:63**  
 Hansonburg district, Socorro County **20:37**  
 Lemitar Mountains, Socorro County **20:61n**  
 Lynchburg mine, Socorro County **20:(61)**  
 Magdalena district, Socorro County **20:19**  
 Red Cloud mines, Lincoln County **11:71**  
 Red Lakes prospect (“Turquoise mine”), Eddy County **20:60n**  
 Stephenson-Bennett mine, Dona Ana County: **20:29p**; 23 cm V-twin **4:33**
- Pennsylvania  
 Phoenixville **20:378–379p**  
 Wheatley mine **20:378d**
- Utah  
 Gold Hill mine (minute crystals) **24:17**
- Wales**  
 Dyfed  
 Bwlch-Glas mine, Ceulanymaesmawr (euhedral clear micro) **13:152–153p**
- Zambia**  
 Broken Hill mine (crystals to 7 cm) **11:342–343p**
- 
- CERVANDONNITE-(Ce)**
- Italy**  
 Lombardy  
 Monte Cervandone, Ossola: **23:435n**; crystals to 2 mm **21:489n**
- 
- CERVANTITE**
- Bolivia**  
 Tarumita mine, Caracollo district, Oruro **6:132n**
- China**  
 Lengshuijiang, Hunan (after stibnite, to 35 cm) **22:388n**  
 Xikuangshan mine, Lengshuijiang, Hunan (valentinite/cervantite after stibnite) **23:277**
- Italy**  
 Tuscany  
 Pereta mine **15:20**
- Macedonia (formerly Yugoslavia)**  
 Allchar (coatings) **24:441**
- United States**  
 California  
 Darwin Antimony mine, Inyo County **15:14n**  
 Stayton mine, Stayton district **20:432–433**
- 
- CESAROLITE**
- United States**  
 Arizona  
 Bisbee district **12:(299)**
- 
- CETINEITE**
- Italy**  
 Tuscany  
 Cetine mine, Rosia (in slag) **23:435n**
- 
- CEYLON**
- See Sri Lanka*
- 
- CHABAZITE**
- Australia**  
 New South Wales  
 Ardglen quarry (twinned, “phacolite”) **19:399c**  
 Ben Lomond (some twinned, “phacolite”) **19:403–404c,d,p**  
 Kyogle quarry (twinned, “phacolite”) **19:404–405p,c,d**  
 Prospect quarry (micro crystals) **25:190p**  
 Willy Wally Gully **19:401**
- Victoria  
 Flinders area (some twinned, “phacolite”; some intergrown with gmelinite) **19:454, 19:457q, 19:459p**  
 Phillip Island **19:454, 19:457q**  
 Red Cliff Head, Phillip Island (red/orange) **19:454**
- Canada**  
 British Columbia  
 Monte Creek, Kamloops district **19:333n**  
 Nova Scotia  
 Wassons Bluff, near Parrsboro **18:433n**  
 Ontario  
 Highway 62 roadcut north of Bancroft (orange) **13:(111)**
- Québec  
 Matilda Lake (near), Argenteuil County **22:386n**
- Mt. St-Hilaire (minute plates, aggregates; euhedral orange to 1.2 cm) **21:303**
- Denmark**  
 Færoe Islands (4 localities): crystals to 4 cm **12:15p,d,m**; 1 cm white **22:48**
- England**  
 Cornwall  
 Deans quarry, St. Keverne **20:395**  
 Devon  
 Ramsley quarry, Sticklepath **20:395**
- Germany**  
 Hessen  
 Lungd **20:398**  
 Rheinland-Pfalz  
 Laacher See area, Eifel district **8:319n**
- Iceland**  
 Ten localities **12:14–15c,d**
- India**  
 Panvil, Maharashtra (crystals to 2 cm) **7:256**
- Ireland**  
 Locality not specified (micro, “phacolite”) **10:173**
- Italy**  
 Lombardy  
 Baveno area **14:163**  
 Pizzo Ventina, summit of Monte disgrazia **10:87**  
 Tuscany  
 San Piero in Campo area, Elba **16:358**
- Kazakhstan (formerly USSR)**  
 Sarbai mine, Rudnyi (some gmelinite epitaxial on) **23:433n**
- Northern Ireland**  
 County Antrim  
 Glenarm (poss. overgrowing gmelinite) **13:44**  
 Island Magee (poss. herschelite) **13:44**
- Russia (formerly USSR)**  
 Sokolovska-Sarbaisk, Ural Mountains **23:495n**
- South Africa**  
 Transvaal  
 Palabora mine (to 1 cm) **22:257**
- Sweden**  
 Leveänemi iron mine, Norrbotten **20:(346)**
- United States**  
 Arizona  
 Malpais Hill, Pinal County **14:109–113**  
 New Cornelia mine, Pima County **14:294n**
- Colorado  
 Italian Mountain area, Gunnison County **15:81**  
 Table Mountain, Jefferson County **19:162q, 19:166–167p,c,d**
- Connecticut  
 Thomaston Dam, Litchfield County **10:(241)**
- Hawaii  
 Puu o Ehu quarry, Oahu **15:97p**
- Idaho  
 Lucky Peak Dam site **23:(424)**  
 Sawtooth batholith (tentative id) **24:199n**
- Michigan  
 Keweenaw County **23:M55**
- Nevada  
 Getchell mine, Humboldt County **19:(255)**
- New Jersey  
 Paterson area, Passaic County (crystals to 3.7 cm) **9:159p, 9:171**  
 Route 80 roadcut, Passaic County **1:174**
- New Mexico  
 Gila River, Grant County **20:59n**
- Oregon  
 Lost Creek Dam, Douglas County **14:367p**
- Washington  
 Skookumchuck Dam, Thurston County **3:34**



- Cole shaft, Bisbee district (2 cm crystals) **12:299**  
 Fat Jack mine, Yavapai County (massive; tentative id) **22:25**  
 Iron Cap mine, Graham County **19:(87)**  
 Junction shaft, Bisbee district **12:299**  
 Lavender pit, Bisbee district (coating, replacing pyrite to 1 cm) **12:299**  
 Magma mine (6 mm euhedral, some twins; coating on pyrite) **14:76–78p**  
 Mammoth mine, Pinal County (films; most id as djurleite) **11:164**  
 New Cornelia mine, Pima County (veins and coatings) **14:294–295**  
 Rowley mine, Maricopa County (blebs, stringers) **5:17**
- California  
 Benitoite Gem mine, San Benito County (id as djurleite) **8:448**  
 Defiance mine, Inyo County (coating pyrite) **15:14n**  
 Essex mine, Inyo County **15:14n**  
 Hale Creek mine, Trinity County **18:(347)**  
 Jensen quarry, Riverside County **15:288n**  
 Monitor-Mogul district, Alpine County (3 mines) **22:36**  
 Thompson mine, Inyo County **15:14n**
- Colorado  
 Rico Argentine mine, Rico district (coating on pyrite) **16:213, 16:214p**  
 Rico district, Dolores County: **16:212–213**; “bravoite” coating id as prob. chalcocite **7:307**  
 San Juan Mountains **10:358n**
- Michigan  
 Keweenaw Peninsula (several localities listed): **23:M55**; micro prismatic **14:226**  
 Osceola #10 shaft, Houghton County (micro crystals) **9:314**  
 Seneca #2 mine, Keweenaw County (fine microcrystals) **23:M55n**  
 White Pine mine, Ontonagon County: **14:226p, 23:M55p**; 2.5 cm crystals **14:53p**
- Nevada  
 Killie mine, Elko County (massive) **18:418**  
 Majuba Hill mine (massive) **16:63**  
 Outlaw mine, Nye County (grains) **22:178n**
- New Jersey  
 Chimney Rock quarry, Somerset County: chrysocolla after **9:30**; crystals to 1 cm **9:28**  
 Sterling mine (massive) **25:100**
- New Mexico  
 Hansonburg district, Socorro County **20:(35)**  
 Harding mine (pods to 1.2 cm) **8:124**  
 Iron Mask mine, Socorro County **20:20**  
 Magdalena district, Socorro County **20:19–20**  
 Stonewall mine, Socorro County **20:20**
- Pennsylvania  
 Wheatley mine **20:379**
- Zaire**  
 Kamoto Fond mine **22:17n**  
 Mashamba West mine (crystals to 4 cm) **22:17**  
 M’Passa mine (crystals to 25 cm) **12:188n**
- 
- CHALCOMENITE**
- Bolivia**  
 El Dragón mine, Potosí (groups to 4 mm; clinochalcomenite after) **21:141p,d**
- United States**  
 Arizona  
 Middlemarch Canyon, Cochise County **11:265n**
- Nevada  
 Majuba Hill mine: blebs **16:63**; glassy blebs to 5 mm **24:176**
- Zaire**  
 Musonoi mine **20:(280)**
- 
- CHALCONATRONITE**
- Australia**  
 Western Australia  
 Carr Boyd deposit **9:(113)**
- Germany**  
 Rheinland-Pfalz  
 Bad Ems **18:365n**
- 
- CHALCOPHANITE**
- Australia**  
 New South Wales  
 Broken Hill (velvety) **7:30**
- South Australia  
 Beltana mine (lustrous 1 mm euhedral) **22:452**  
 Reaphook Hill, Flinders Range (micro crystals) **9:23**
- Tasmania  
 Magnet mine **19:(383)**
- Western Australia  
 Anticline prospect, Ashburton Downs (tabular to 2 mm) **24:210p**
- Austria**  
 Bleiberg district (unconfirmed) **17:363**
- Namibia**  
 Tsumeb (minute grains) **8:T22n**
- South Africa**  
 Cape Province  
 Hotazel mine **9:151n**
- Spain**  
 El Sabinar, Portman, Murcia (micro crystals) **25:222n**
- United States**  
 Arizona  
 Cole shaft, Bisbee district: botryoidal **12:299p**; 2 mm crystals **12:300**  
 Tonopah-Belmont mine, Maricopa County **19:142**
- California  
 Mohawk mine, San Bernardino County **8:432n**
- New Jersey  
 Chimney Rock quarry, Somerset County **9:26–27**  
 Paterson, Passaic County **9:26n**
- New Mexico  
 Carnahan mine, Santa Fe County **20:63**
- Utah  
 Gold Hill mine (minute crystals) **24:17**
- 
- CHALCOPHYLLITE**
- England**  
 Cornwall  
 Wheal Unity, St. Day, Gwennap **24:272p**
- Italy**  
 Tuscany  
 La Facciata quarry, Carrara region **18:287**
- Namibia**  
 Tsumeb (crusts) **8:T22n**
- New Zealand**  
 Maharahara mine **17:201–203p,q**
- United States**  
 Arizona  
 Bisbee district **12:300**  
 Cole shaft, Bisbee district (bladed) **12:301**  
 Czar shaft, Bisbee district **12:301**  
 Irish Mag shaft, Bisbee district (8 mm bladed) **12:301**
- Nevada  
 Majuba Hill mine: euhedral plates, rosettes to 6 mm, some dehydrate after removal **16:63c, 16:65p**; platy to 7 mm **24:176**
- 
- CHALCOPYRITE**
- Australia**  
 Northern Territory  
 Mt. Bonnie mine **19:(444)**
- Queensland  
 Black Rock opencut, Mt. Isa mine: **19:479**; in barite **19:471p**  
 Mt. Cobalt mine **19:(489)**  
 Mt. Oxide mine **19:(486)**
- South Australia  
 Moonta mines **19:413, 19:415p**  
 Wallaroo mines **19:413**
- Austria**  
 Knappenwand, Salzburg **17:17n**  
 Mitterberg mine, Salzburg **17:110n**
- Bolivia**  
 El Dragón mine, Potosí (veinlets) **21:137–138n**
- Brazil**  
 Minas Gerais  
 Énio pegmatite, near Galiléia (massive) **12:69**  
 Morro Velho gold mine (micro euhedral; some acicular) **4:226–227c**
- São Paulo  
 Jacupiranga mine (masses) **15:265**
- Bulgaria**  
 Madan orefield **22:442c**  
 Ninth of September mine **20:(394)**
- Canada**  
 British Columbia  
 Courtenay (near) (equant to 3 cm) **22:384n**  
 Mt. Washington mine, Vancouver Island (massive) **15:90n**  
 Rocher Déboulé mine, near Hazelton **15:(91)**  
 Silver Standard mine (micro euhedral) **2:204**
- Northwest Territories  
 Echo Bay mine, Port Radium **20:203**  
 Eldorado mine, Port Radium **20:203**  
 Nanisivik mine **21:521**
- Ontario  
 Faraday (Madawaska) mine (twinned) **13:111n**
- Québec  
 Marbridge #1 mine, Malartic district (after chrysotile) **7:178p**  
 Mt. St-Hilaire (micro euhedral) **21:303**  
 Sherbrooke **20:219**
- Yukon  
 Rapid Creek (micro) **23:Y19**
- China**  
 Chenzhou mine, Hunan (2.5 cm crystal) **25:140n**
- Czech Republic (formerly Czechoslovakia)**  
 Bohutín district, Příbram ore field (micro) **12:162**
- England**  
 Cornwall  
 Botallack district (mostly “blister copper”) **24:279**
- Derby  
 Ecton **14:17**  
 Ladywash mine, Eyam (in fluorite) **14:17**
- Durham  
 Boltsburn mine, Weardale **13:18**
- France**  
 Les Farges mine, near Ussel, Corrèze **13:(267)**
- Germany**  
 Rheinland-Pfalz  
 Friedrichslegen mine **15:335**
- Siegerland  
 Georg mine **19:121n**
- Greece**  
 Laurium area (micro crystals) **7:117**
- Italy**  
 Lombardy  
 Baveno area (massive) **14:163**  
 Boccheggiano mine **10:284, 10:286**
- Japan**  
 Oppu mine, Aomori **9:368n**
- Namibia**  
 Tsumeb (massive) **8:T22n, 8:T83p**
- New Zealand**  
 Tui mine: **6:26p**; crystals to 3 cm **6:28–29**

## GENERAL INDEX

- Peru**  
 Huanzala mine, Huanuco (2 cm crystals) **13:29–30**  
 Huaron mine, Ancash: **18:367p, 18:(368)**; crystals to 1.5 cm **21:490n**
- Portugal**  
 Panasqueira mine **2:75–76**
- Russia (formerly USSR)**  
 Sverdlovsk area (?) **20:75n**
- South Africa**  
 Cape Province  
 Middelpplaats mine (massive) **22:284n**  
 Transvaal  
 Messina district **22:196**  
 Messina mine, Messina district (stalactitic) **22:196**
- Spain**  
 Emilio mine, Caravia-Berbes district, Asturias region (small euhedral) **23:73**  
 Eguí quarries, Navarra: **22:140n**; malachite after **22:141, 25:222n**  
 Horcajo mines, Ciudad Real **25:25**  
 La Collada, Asturias region **23:73n**  
 Troya mine, Mutioloa, Guipuzcoa **23:272n**
- Sweden**  
 Håkansboda, Västmanland (massive) **3:38n**
- United States**  
 Arizona  
 Bisbee district (widespread massive) **12:301**  
 Campbell shaft, Bisbee district (1.5 cm crystals) **12:301**  
 Iron Cap mine, Graham County **19:(87)**  
 Magma mine (2.5 cm euhedral) **14:76, 14:77p**  
 Mammoth mine, Pinal County (micro crystals) **11:161**  
 New Cornelia mine, Pima County (massive) **14:295**  
 Pinal County **20:387**  
 79 mine (crystals to 12 mm) **3:250**  
 Tonopah-Belmont mine, Maricopa County **19:142**  
 Arkansas  
 Monte Cristo mine, Marion County (sharp micro) **24:295**  
 California  
 Jensen quarry, Riverside County **15:288n**  
 Kalkar quarry, Santa Cruz County (grains and seams) **17:320**  
 Monitor-Mogul district, Alpine County (4 localities) (minute crystals, massive) **22:36**  
 New Melones Lake spillway, Calaveras County **13:298**  
 Thompson mine, Inyo County (massive) **15:14n**  
 Colorado  
 Alice Glory Hole, Clear Creek County **18:186**  
 Bandora mine, San Juan County **15:43n, 19:243–244p,c**  
 Brooklyn mine, Silverton district **10:331n**  
 Camp Bird mine, Ouray County: 7.5 cm crystals **7:303p**; 3 cm twinned crystal **14:145p**  
 Dolly Varden mine, Boulder County (crystals to 12 mm) **7:280**  
 Eagle mine, Eagle County (12 mm crystals) **7:286n**  
 Freeland mine, Clear Creek County (2 cm crystals) **7:282–283n**  
 Italian Mountain area, Gunnison County (grains) **15:86n**  
 Krakajack #2 mine, Boulder County (crystals to 2.5 cm) **7:280**  
 Mountain Monarch mine, Ouray County **19:92**  
 National Belle mine, Ouray County **17:(233)**  
 Osceola mine, San Juan County **7:297p, 7:301–302n**  
 Princess Alice mine, Clear Creek County (4 cm crystals) **7:282n**  
 San Juan Mountains **10:358n**  
 Sweet Home (Home Sweet Home) mine, Park County: anhedral **10:336**; euhedral **10:333n**  
 Illinois  
 Denton mine, Hardin County (on sphalerite) **18:148n**  
 Iowa  
 Linwood mine, Scott County (micro) **23:236**  
 Michigan  
 Baltic mine, Houghton County **23:M55**  
 Ropes mine, Marquette County **17:121n**  
 White Pine mine, Ontonagon County **14:226n, 23:M55**  
 Missouri  
 Buick mine, Reynolds County **15:39n**  
 Nevada  
 Getchell mine, Humboldt County **19:(255)**  
 Killie mine, Elko County **18:416**  
 Majuba Hill mine (veinlets) **16:62**  
 Outlaw mine, Nye County (grains) **22:178**  
 New Jersey  
 Chimney Rock quarry, Somerset County: **9:28–29**; botryoidal **24:383n**  
 Paterson area, Passaic County **9:173, 9:176p**  
 Route 80 roadcut, Passaic County (plates, grains) **1:173**  
 Sterling mine (massive) **25:100**  
 New Mexico  
 Alhambra mine, Grant County **20:59n**  
 Hansonburg district, Socorro County **20:35**  
 Lynchburg mine, Socorro County **20:(61)**  
 Magdalena district, Socorro County **20:19, 20:20**  
 San Pedro mine, Santa Fe County **20:63**  
 New York  
 Sterling mine, Jefferson County (to 1 cm) **15:204c**  
 Pennsylvania  
 Chester County mine **20:379**  
 French Creek mine: crystals to 3 cm, parallel groups, one after pyroxene **25:114d, 25:116p**; huge parallel groups **12:183n**  
 Phoenixville **20:379**  
 Virginia  
 Fairfax quarry, Fairfax County (bornite poss. after, to 8 cm) **3:177–178**  
 Washington  
 Pedro claim, King County **21:485n**
- Zaire**  
 Shinkolobwe mine **20:276**
- 
- CHALCOSIDERITE**
- 
- England**  
 Cornwall  
 Wheal Phoenix, Linkinhorne (micro crystals) **12:351–352p,q**
- United States**  
 Arizona  
 Cole shaft, Bisbee district **12:301**  
 Shattuck shaft, Bisbee district **12:(301)**  
 New Mexico  
 Phelps-Dodge mine, Grant County **20:57**
- 
- CHALCOSTIBITE**
- 
- Bolivia**  
 Oruro district (blades to 1 cm) **6:133**
- Canada**  
 British Columbia  
 Mt. Washington mine, Vancouver Island **15:(90)**  
 Ontario  
 Hemlo gold deposit **17:(340)**
- France**  
 Saint-Pons (near), Haute-Provence (4 cm crystal) **24:42–43d,p**
- Italy**  
 Tuscany  
 Buca della Vena mine **17:265**
- 
- CHALCOTHALLITE**
- 
- Greenland**  
 Ilímaussaq **22:48n**
- 
- “CHALCOTRICHITE”**
- 
- See Cuprite*
- 
- “CHALYBITE”**
- 
- See Siderite*
- 
- CHAMBERSITE**
- 
- United States**  
 Texas  
 Locality not specified **2:260d,c**
- 
- CHAMOSITE**
- 
- Canada**  
 Québec  
 Evans-Lou pegmatite (masses) **3:72**  
 Mt. St-Hilaire: **19:364n**; spheres to 15 mm **21:303**  
 Sherbrooke **20:215–216p,q**
- Norway**  
 Kongsberg **17:(35)**
- South Africa**  
 Cape Province  
 Olive Pan claim, west of Hotazel mine **9:151n**
- United States**  
 Arizona  
 Bisbee district (magnesian, “delessite”) **12:302n**  
 New Cornelia mine, Pima County **14:295**  
 Michigan  
 Keweenaw Peninsula **23:M56**
- Wales**  
 Gwynedd  
 Prenteg (aluminian) **23:397p,q**
- 
- CHARLESITE**
- 
- South Africa**  
 Cape Province  
 Kalahari manganese field: associated with sturmanite **22:284, 22:293**; ettringite-like, poss. sturmanite and/or charlesite **14:387p**  
 N’Chwaning mine **23:277**
- United States**  
 New Jersey  
 Franklin **19:(274)**
- 
- CHENEVIXITE**
- 
- Australia**  
 Western Australia  
 Ashburton Downs: **21:(487)**; boxwork **24:210–211p**  
 Bali Lo mine **12:(110)**
- Chile**  
 Chuquicamata **9:330**
- Namibia**  
 Tsumeb (earthy; some plumbian) **8:T22n**
- United States**  
 Arizona  
 Alum Gulch, Santa Cruz County **11:265n**  
 Nevada  
 Majuba Hill mine (dusty coatings) **16:63**
- 
- CHERNIKOVITE**
- 
- Formerly “hydrogen autunite”*  
 New mineral description **19:249–252**  
 Vs. abernathyite **19:251q**
- Brazil**  
 São Paulo  
 Perus district **19:249–251h,q,c**
- USSR (former)**  
 Two unspecified localities **19:249–251h,q,c**

## GENERAL INDEX

### CHERNOVITE-(Y)

#### Brazil

- Bahia  
 Brumado (crystals to 5 mm) **24:384n**  
 Minas Gerais  
 Jaguarauçu pegmatite (micro crystals) **25:168**

#### Italy

- Lombardy  
 Monte Cervandone **8:291, 20:152p, 23:435n**

#### United States

- New Mexico  
 Paramount Canyon bixbyite locality, Sierra County (yttrian) **20:404**  
 Squaw Creek tin mine, Catron County (yttrian) **20:404**

### CHERVETITE

#### Gabon

- Mounana: **9:(114)**; crystals to 1 cm, 3 twin laws  
**6:239–240d, 6:242–243c,q, 6:247p**

### “CHESSYLITE”

#### See Azurite

### CHESTERITE

#### United States

- Vermont  
 Carlton talc quarry, near Chester (announced; crystals to 5 cm) **10:51h,q**

### CHEVKINITE

#### Metamict **4:220**

#### United States

- Virginia  
 Bedford County **9:(113)**

### CHIAVENNITE

#### Norway

- Oslofjord/Langesundsfjord region (druses)  
**22:52n**

### CHILDRENITE

- In pegmatite environments **4:126**  
 Numerous world localities **4:121, 4:126**

#### Austria

- Millstätter Seenrücken, Carinthia **17:(110)**

#### Brazil

- Minas Gerais  
 Córrego Frio mine, near Linópolis (crystals to 1 cm) **14:233**  
 Énio pegmatite, near Galiléia (globules) **12:71p**  
 Galiléia (near): childrenite-eosphorite **20:394**; childrenite-eosphorite; acicular **9:41**  
 Hermes mine, near Linópolis **14:236**  
 João Modesto dos Santos mine, near Linópolis (childrenite-eosphorite; crystals to 10 cm) **14:228p, 14:233**  
 Linópolis (near): **12:183n**; prismatic to 15 cm **25:60**  
 Pro-Beryl mine, Sapucaia (20 cm prismatic) **2:10n**  
 Telfrio mine, near Linópolis (childrenite-eosphorite) **14:234n**  
 Zé Berto mine, near Linópolis **14:236n**

#### Canada

- Yukon  
 Rapid Creek area (childrenite-eosphorite; crystals to 4 cm) **23:Y19–20q,p**

#### England

- Devon  
 Tavistock **1:84n**

#### United States

- New Hampshire  
 Palermo mine **4:126, 4:232, 5:278n**  
 South Dakota  
 Tip Top mine (eosphorite-childrenite) **17:241p,c, 17:250**

### CHILE

#### Note: For Mina/Minas \_\_\_\_, see also \_\_\_\_ mine

- Abundanca mine, Tierra Amarilla, Copiapó district, Atacama **15:74**  
 Alcaparosa mine, Tierra Amarilla, Copiapó district, Atacama **15:73p–74**  
 Andacollo mine, near Coquimbo, Coquimbo province **11:27h, 11:115, 11:316s, 12:187s**  
 Antofagasta province (locality not specified) **22:388s**  
 Bolados mine, Chañarcillo **10:198h**  
 Cerritos Bayos (near), near Chuquicamata, Antofagasta **14:360**  
 Chacabuco, Antofagasta **14:358–360**  
 Chañarcillo, south of Copiapó, Atacama province **8:390s, 10:197–204h,m,p,g, 15:69m, 15:70s, 15:71–72p,g,h, 15:160s, 18:243s, 19:12s**  
 Chuquicamata deposit, north of Calama, Antofagasta **8:390s, 8:517s, 9:321–333m,h,p,g, 14:355–356, 14:361m**  
 Chuquicamata region, Antofagasta **14:355–361m**  
 Collector's diary series. Mark Chance Bandy. 1935 **14:355–361, 15:67–74, 15:157–162**  
 Copiapó, Atacama **15:68–71m**  
 Descubridora mine, Chañarcillo, Copiapó district, Atacama **15:71–72p**  
 Dolores Secunda and Dolores Tercera mines, near Chañarcillo, Copiapó district, Atacama **15:70p, 15:71h, 15:73p**  
 Emma Luise mine, near Huanuco, Taltal province **21:488s**  
 Exotica mine, south of Chuquicamata pit, Antofagasta **9:331s**  
 Flor de Bosque mine, near Chuquicamata **9:324s**  
 Gordon, Samuel G., expeditions: Atacama Desert, 1938–39 **6:10–12; 1925 5:161–166**  
 Guanaco, Tal Tal **18:365s**  
 Huantajaya, Iquique area, Tarapacá **15:68**  
 Inca de Oro, Copiapó district, Antofagasta **10:123s, 12:181s, 12:184s, 16:147s**  
 Iquique area, Tarapacá **15:67–68**  
 Juan Godoy, near Chañarcillo, Copiapó district, Atacama **10:197–198h, 15:70p, 15:71h**  
 Mercedes mine, Coquimbo **23:433s**  
 Mina Herminia, Sierra Gorda **11:101–104s**  
 Mina la Farola, Copiapó district **9:134s**  
 Mina la Verde, Copiapó district **9:134s**  
 Mina la Vieja, near Portrerillos **9:134s**  
 Oficina Anita, Iquique area, Tarapacá **15:(68)**  
 Oficina Progreso, Iquique area, Tarapacá **15:(68)**  
 Pampa Pique III, Oficina Lautare **3:6s**  
 Pampa Rica, Antofagasta **24:49s**  
 Paposa **15:160s**  
 Portrerillos **10:123s**  
 Quetena mine, west of Calama, Antofagasta **9:325s, 14:356–358p,g, 14:361**  
 Salar de Pintados, near La Guaica, Tarapacá **1:12ff,g,m,p**  
 Sierra Gorda district, Caracoles **9:114s, 19:312s**  
 Tia Maria (near) **24:227s**  
 Tierra Amarilla, near Copiapó, Atacama **10:123s, 25:76s**  
 Wendy pit, Tambo, south of El Indio **23:433s, 24:245**

### “CHILLAGITE”

#### See Wulfenite

### CHINA (PEOPLE'S REPUBLIC)

- Localities not specified **19:210s, 19:335s, 21:488–489s**  
*Minerals in China* published **17:227–228**  
 Peking Geological Museum **18:325–332**  
**Anhui (Anwei)**  
 Locality not specified **13:393s**  
**Gansu**  
 Locality not specified **13:393s**

### Guangdong

- Localities not specified **11:321s, 13:393s, 18:331s**  
 Shilu, Yangchung Xian **16:307s, 20:236s**  
 Yang Chweng mine **18:365s**

### Guangxi

- Duyun **22:216s**  
 Guizhou (Kweichow) **18:365s**  
 Locality not specified **18:331s, 21:175s**  
 Tongren **14:388s**  
 Wan-Shan-Ch'ang, near Tung-Jen, Guizhou/  
 Hunan **18:326, 18:329–330s**

### Hubei

- Locality not specified **18:326s, 18:365s**

### Hunan

- Chenzhou **21:488s, 22:217s, 24:49s**  
 Chenzhou mine **25:140s**  
 Fujian **23:267**  
 Gejiu **23:267s**  
 Guiyang **20:394s**  
 Hengyang **20:69s, 21:488s, 25:61s**  
 Hsianghualin, Linwu County **18:329s**  
 Hunan Realgar mine, Shimen **21:488s, 23:277s**  
 Jiangxi **18:326s**  
 Kuangshan mine **20:147s**  
 Leiyang **20:69s, 20:394s**  
 Lengshuijiang, Shaoyan County **22:388s**  
 Linwu **20:394s**  
 Localities not specified **23:267s, 24:223s**  
 Shangbao mine **25:140h**  
 Shangbu mine **25:140**  
 Shimen **20:394s, 20:481s, 25:61s**  
 Sianghwaling **22:343–347s**  
 Wan-Shan-Ch'ang, near Tung-Jen, Guizhou/  
 Hunan **18:326, 18:329–330s**  
 Xikuangshan antimony mine, Lengshuijiang,  
 Shaoyang **18:326, 18:327p, 20:236s**  
 Zinyhanj mine **25:47s**

### Shandong

- Changma, Liagsu County **18:326s**  
 Sichuan (Szechuan) **15:38s, 20:69s, 20:394s**

### Xinjiang Uygur Zizhou (Xinjiang/Singkiang Autonomous Region)

- Altai Mountains **14:388s**  
 Altai pegmatite **25:46s**  
 Altai #3 pegmatite (field trip) **23:439**  
 Altay region **18:326s, 18:330s**  
 Korla **20:394s**  
 Kunlun Mountains **20:399s, 21:488–489s**  
 Locality not specified **18:328s**  
 Sardala, Manas County **13:393s**

### Yunan

- Locality not specified **18:365s**

### CHINKOLOBWITE

#### See Sklodowskite

### CHINOITE

#### See Libethenite

### CHIOLITE

#### Greenland

- Ivigut **24:G34**

#### United States

- Virginia  
 Morefield mine, Amelia County **23:428n**

### CHKALOVITE

#### Canada

- Québec  
 Mt. St-Hilaire: **19:364n**; equant crystals to 3 mm **21:303**

### “CHLOANTHITE”

#### See Nickel-skutterudite



- Pennsylvania/Maryland  
Line pit, State Line district (massive, micro crystals) **12:153, 12:154q**  
State Line chromite district **12:149n**  
Wood's mine, State Line district **12:149n**
- CHRYSOBERYL**
- Brazil**  
Bahia  
Cachoeira **2:10n**  
Campo Formoso, near Carniaba emerald mine (sixlings, "alexandrite") **11:316n**  
Jaqueto (24 kg twinned crystal) **18:246n**  
Medeiros Neto (5 cm crystals) **24:385n**  
Teixeira de Freitas: **24:229p, 24:230**; flat sixlings to 4 cm **23:280**
- Espirito Santo  
Itaguaçu (discovery) **11:357–359p**  
Pancas (22 cm euhedral V-twin) **21:250–251p**  
Tancredo, Santa Teresa **2:10n**  
Locality not specified (flat sixlings to 15 mm) **10:179**
- Minas Gerais  
Americana, Teófilo Otoni **2:10n**
- Czech Republic (formerly Czechoslovakia)**  
Maržikov **19:10s**
- India**  
Hyderabad area, Andhra Pradesh (twinned to 5 cm) **21:489n**  
Orissa **19:271–272p**
- Russia (formerly USSR)**  
Malysheva mine, Middle Urals (sixlings "alexandrite") **25:218n**
- Spain**  
Franqueira (near), Pontevedra ("alexandrite," cyclic twins to 2 cm) **24:236**
- United States**  
Connecticut  
Gillette quarry, Middlesex County (twinned) **23:25n**
- Maine  
Nubble quarry, Greenwood, Oxford County **16:(384)**  
Ragged Jack Mountain, Oxford County **16:(384)**  
Wheeler mine, Gilead, Oxford County **16:(384)**
- New Mexico  
La Madera Mountain, Rio Arriba County (micro sixlings) **22:384n**
- Zimbabwe (formerly Rhodesia)**  
Ft. Victoria (see Nyanda)  
Locality not specified ("alexandrite" to 2 cm) **9:316**  
Novello claims, near Ft. Victoria ("alexandrite") **19:271n**  
Nyanda (formerly Fort Victoria): "alexandrite" **18:148**; "alexandrite," some sixlings **11:316n**  
St. Anne's mine, Miami **20:147**
- CHRYSOCOLLA**
- Australia**  
New South Wales  
Broken Hill (massive) **7:31n**  
Kintore opencut, Broken Hill **19:(428)**
- Queensland  
Mt. Glorious (some after azurite) **19:488**  
Mt. Isa mine **19:479**
- South Australia  
Burra Burra mine: **15:106–107p**; after azurite, cuprite, copper **15:220–221p**; after libethenite **15:107**; coatings, masses, stagsmalms **25:127**  
Walleroo mines **19:(412)**
- Western Australia  
Ashburton Downs (some poss. after prismatic malachite) **24:211**
- Chile**  
Chuquicamata **9:331**  
Inca de Oro, Copiapó district (gold wires in) **10:123**
- England**  
Derby  
Calton Hill quarry **14:(23)**  
Dene quarry, Cromford **14:(23)**
- Stafford  
Ecton Hill **14:(23)**
- Italy**  
Lombardy  
Baveno area **14:163**
- Sardinia  
Sa Duchessa mine **15:(372)**
- Namibia**  
Tsumeb **8:T22n, 8:T83p**
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**
- South Africa**  
Cape Province  
Langdon mine **22:284n**
- United States**  
Arizona  
BCC #3 claim, La Paz County **20:387**  
Bisbee district **12:302**  
Bluebird mine, Gila County (and malachite after azurite) **19:117–120p**  
C & B mine, Gila County (powdery) **11:214**  
Cole shaft, Bisbee district (post-mining) **12:302**  
Copper Queen mine, Bisbee district (after azurite) **12:302**  
Czar shaft, Bisbee district (some after fibrous malachite) **12:302**  
Defiance and/or Silver Bill mines, Cochise County (id as fraipontite) **14:131–132q**  
Eagle Eye mine, La Paz County (crystals) **20:387**  
Fat Jack mine, Yavapai County (thin crusts) **22:25**  
Grand Reef mine, Graham County (after micro cerussite, anglesite) **11:223**  
Magma mine **14:(82)**  
Mammoth mine, Pinal County: acicular to 3 mm **24:381n**; some boxworks after galena **11:168**  
New Cornelia mine, Pima County: copper in, polished **14:290p**; massive, some after malachite **14:295**  
New Water Mountains, Yuma County (after azurite, acicular malachite, quartz, albite) **14:119p**  
Old Yuma mine, Pima County (traces) **14:107**  
Ray mine: after prismatic mineral; also "gem silica," massive with malachite, tenorite **14:315p, 14:318**; after prob. azurite to 7.5 cm **11:248–250p**; after unknown prismatic mineral **8:58–59p**; polished specimens with azurite, malachite **24:381n**  
Rowley mine, Maricopa County (massive) **5:17**  
79 mine (massive; some after hemimorphite, smithsonite) **3:255, 3:270p**  
Shattuck shaft, Bisbee district (some after malachite) **12:302**  
Tonopah-Belmont mine, Maricopa County **19:142**
- California  
Darwin district, Inyo County **15:14n**  
Hale Creek mine, Trinity County **18:(347)**  
Jensen quarry, Riverside County **15:288n**
- Colorado  
Table Mountain, Jefferson County **19:168**  
X-10-U-8 mine, Italian Mountain area, Gunnison County **15:86n**
- Michigan  
Algoma mine, Ontonagon County **23:M58n**  
Allouez mine, Keweenaw County **23:M58n**  
Boston Road prospect, Houghton County (after malachite) **23:M58p**  
Keweenaw Peninsula: **23:M58**; micro specimens **14:220–222c,p**  
Mendota mine, Keweenaw County (coating calcite) **23:M58p**
- Nevada  
Killie mine, Elko County **18:418**  
Majuba Hill mine: coatings **16:63n**; glazes of various colors **24:177**
- New Jersey  
Chimney Rock quarry, Somerset County (coatings; after copper and chalcocite) **9:30**  
Route 80 roadcut, Passaic County **1:174**
- New Mexico  
Hansonburg district, Socorro County **20:37**  
Harding mine (coatings) **8:123**  
Magdalena district, Socorro County **20:20**  
Red Cloud mines, Lincoln County **11:71**  
Red Lakes prospect ("Turquoise mine"), Eddy County **20:60n**  
Rose mine, Grant County (crusts) **25:199**
- Oklahoma  
Paoli (southeast of), Garvin County (coatings) **17:373**
- Pennsylvania  
French Creek mine (coatings) **25:114**
- Utah  
Gold Hill mine (massive; after mixite, olivene, azurite) **24:20**
- Zaire**  
Kakanda or Kambove **20:398**  
Mashamba mine (malachite crystals on) **18:(368)**  
Mashamba West mine: coating cuprite **22:17–20p**; coatings **22:17**; malachite and chrysocolla after barite **22:16**
- Zambia**  
Broken Hill mine **11:348n**
- CHRYSO TILE**
- See also Clinochryso tile*  
Tubular microcrystals **1:107q**
- Canada**  
Québec  
Jeffrey mine **9:247**  
Marbridge #1 mine, Malartic district (magnetite, various sulfides after) **7:178p**
- Turkey**  
Kop Krom mine, west of Erzerum (masses, webs) **9:285, 9:287p**
- United States**  
Arizona  
Bisbee district **12:302**  
Gardner shaft, Bisbee district **12:302**
- Michigan  
Ropes mine (near), Marquette County (asbestos) **17:120n**
- CHUDOBAITE**
- Namibia**  
Tsumeb (crystals to 5 mm) **8:T22n, 8:T70p**
- CHURCHITE-(Y)**
- Brazil**  
Minas Gerais  
Jaguaráçu pegmatite (coatings) **25:168**
- United States**  
Alabama  
Indian Mountain, Cherokee County **9:389–390, 20:358**
- California  
Sausalito (south of), Marin County (crusts, tufts) **2:166–168q**
- Georgia  
Indian Mountain, Polk County **20:358**



## GENERAL INDEX

### CINNABAR

- Australia**  
Western Australia  
Ashburton Downs (powder, minute crystals) **24:211**
- Austria**  
Eisenerz, Styria (1 cm crystals) **15:118n**  
Styrian Erzberg mine, Styria **17:(110)**
- Bolivia**  
Tarumita mine, Caracollo district, Oruro **6:132n**
- Canada**  
British Columbia  
Manitou mine (micro crystals) **2:207**
- China**  
Duyun, Guizhou (Kweichow) (3.7 cm twin) **22:216**  
Fake **18:425–426**  
Guizhou or Hunan: **18:(365)**; twinned; some in quartz **19:114p, 19:115n**  
Locality not specified: prismatic to 15 mm **24:49n**; two fine miniatures **18:356n**  
Tongren, Guizhou (Kweichow) (twinned) **14:388**  
Wan-Shan-Ch'ang, Guizhou (Kweichow): **18:329**; 6.5 cm crystal **18:330p**
- England**  
Derby  
Rutland Cavern, Matlock Bath (powdery) **14:18**
- Germany**  
Rheinland-Pfalz  
Ems district (powdery coatings, druzes) **15:342**
- Ireland**  
Gortdrum mine **14:(18)**
- Italy**  
Tuscany  
Boccheggiano and Niccioleta mines **10:284**  
Buca della Vena mine **17:265n**  
Pereta mine (massive) **15:20n**
- Kazakhstan (formerly USSR)**  
Hydercahn, Fergana Basin (12 mm twins) **10:189**
- Kyrgyzstan (formerly USSR)**  
Chauway (1 cm crystals) **22:393n**  
Kadamtschai (in calcite crystal) **25:140n**
- Macedonia (formerly Yugoslavia)**  
Allchar (minute grains) **24:441**
- Namibia**  
Tsumeb **8:T22n**
- New Zealand**  
Tui mine (earthy) **6:29**
- Romania**  
Cavnic (powdery) **23:269n**
- Russia (formerly USSR)**  
Sverdlovsk area (prob. locality) **20:75n**
- Slovenia (formerly Yugoslavia)**  
Idria mine (rhombs to 2 cm, some twinned; one abraded by water flow within pocket) **22:206–207p**
- Spain**  
Almadén, Ciudad Real **18:161n, 18:301n, 19:122n, 19:300–302p,d, 20:73n**
- Ukraine (formerly USSR)**  
Nikitovka (loose twins) **24:226n**
- United States**  
Arizona  
Lost Cinnabar mine, Gila County **14:276h**  
Upper Tombstone Canyon, Bisbee district (light dusting) **12:302**  
California  
Comstock mine, Stayton district **20:(430), 20:433**  
Geysers, The, Sonoma County (seams, stains) **24:349–350**  
Mogul Peak mine, Alpine County **22:(36)**  
New Idria mine, San Benito County (tabular) **8:432n**

- Sonoma County (prismatic) **8:433n**  
Stayton district (five mines) **20:427–438c**
- Nevada  
Getchell mine, Humboldt County: **19:(255)**; micro rhombs **16:17, 16:21p**  
Locality not specified (150kg “crystal” used for carving) **23:425**  
Loveland (near), Pershing County: **11:59n**; euhedral, some gemmy, to 2.5 cm **12:45, 12:46p**  
Poverty Peak, Humboldt County (1 cm crystals) **16:303n**  
Relief Canyon mine, Churchill County (dendritic) **21:484n**  
Snow drift, near Paradise Valley, Humboldt County **18:243p, 18:244**  
Steamboat Springs, Washoe County (observed forming in pools; disseminated in sinter) **16:25h, 16:30**
- New Mexico  
Hansonburg district, Socorro County **20:37**
- Texas  
Terlingua district (tabular, granular) **21:228**
- Wales**  
Dyfed  
Bwlch-Glas mine, Ceulanymaesmawr (red powdery) **13:151**

### CLARINGBULLITE

- United States**  
Arizona  
Bisbee district **12:302**  
Southwest mine, Bisbee: **18:246n**; 6 mm tabular **24:427p, 24:428h**

### CLAUDETITE

- Toxicity **11:6**
- Brazil**  
Minas Gerais  
Énio pegmatite, near Galiléia (coatings) **12:69n**
- Namibia**  
Tsumeb (micro plates) **8:T22n**
- United States**  
Nevada  
White Caps mine, Nye **16:85n**

### CLAUSTHALITE

- Bolivia**  
El Dragón mine, Potosí (2 mm grains) **21:138**
- Norway**  
Kongsberg **17:(35)**
- South Africa**  
Transvaal  
Messina district (minor ore constituent) **22:196–197n**
- United States**  
California  
Essex mine, Inyo County **15:(14)**
- Zambia**  
Broken Hill **12:(394)**

### CLIFFORDITE

- Mexico**  
Sonora  
Moctezuma mine **1:42**  
San Miguel prospect (minute crystals) **1:42**

### “CLINOBARRANDITE”

See *Phosphosiderite*

### CLINOBSIVANITE

- Australia**  
Western Australia  
Londonderry **9:(113)**
- United States**  
California  
Jensen quarry, Riverside County (micro crystals) **15:280, 15:281p**

### CLINOCHALCOMENITE

- Bolivia**  
El Dragón mine, Potosí (powdery, micro crystals; after chalcocite) **21:141–142p**

### CLINOCHLORE

- Australia**  
South Australia  
Moonta mines **19:(412)**
- Austria**  
Knappenwand, Salzburg (“ripidolite”) **17:17n**
- Brazil**  
Bahia  
Brumado district (ferroan, “ripidolite”); crystals to 8 mm) **9:204p, 9:205**  
Minas Gerais  
Governador Valadares (near) (in alpine cleft) **22:387n**
- Canada**  
Québec  
Broughton Soapstone quarry **21:(486)**  
Jeffrey mine (some ferroan, “ripidolite”) **9:249n**  
Mt. St-Hilaire: **2:269, 2:271q, 19:364n, 21:303**; ferroan “ripidolite,” after aegirine **2:142**  
Orford mine (crystals to 1 cm) **25:336**
- Greece**  
Laurium area (“penninite”) **7:122n**
- Italy**  
Lombardy  
Baveno area (masses; tentative id) **14:163**  
Val Malenco (“ripidolite”; tabular crystals) **3:123p**  
Piemonte  
Val di Susa **10:86p**
- Russia (formerly USSR)**  
Sarany, Ural Mountains (sharp crystals) **24:389n**  
Werbljuge, Urals (micro crystals) **9:133**
- South Africa**  
Cape Province  
Wessels mine (micaceous) **22:284**  
Transvaal  
Messina district **22:194**  
Palabora Open Pit **19:338n**
- Turkey**  
Erzerum (chromian, “kämmererite”) **18:(368), 20:(73), 20:(398)**  
Erzincan (uncertain locality) **9:133**  
Kop Dağları, near Erzerum: **8:403**; chromian, “kämmererite,” crystals to 1 cm **8:282d**  
Kop Krom mine, west of Erzerum (chromian, “kämmererite”; crystals to 2 cm; many habits, twins, etc.) **9:278–287h,q,p,d**
- United States**  
Arizona  
Bisbee district **12:302**  
Cole shaft, Bisbee district **12:302**  
Dallas shaft, Bisbee district **12:302**  
New Cornelia mine, Pima County (various forms) **14:295**  
California  
Kalkar quarry, Santa Cruz County **17:324**  
Colorado  
Italian Mountain area, Gunnison County (“penninite”) **15:86n**  
Massachusetts  
Chester emery mines (ferroan, “corundophilite”) **9:238p**  
New Jersey  
Sterling Hill (massive) **21:426n**  
Pennsylvania/Maryland  
Line pit, State Line district: aluminian, “sherdanite” **12:153q**; “penninite,” crystals to 4 mm, chromian “penninite,” “kämmererite” crystals to 1.5 cm **12:151–152q,p**

## GENERAL INDEX

### CLINOCHRYSOTILE

*See also Chrysothile*

#### South Africa

Cape Province  
Wessels mine (acicular) **22:284**

#### United States

Arizona  
Lavender pit (Holbrook extension), Bisbee district **12:302**  
California  
Defiance mine, Inyo County (with montmorillonite) **15:14n**

### CLINOCLASE

#### Australia

Western Australia  
Ashburton Downs (crystals) **24:211**  
Dome Rock (after olivenite) **12:107**

#### France

Rabéjac quarry, Hérault **23:(434)**

#### Namibia

Tsumeb (coatings; uncertain id) **8:T22n**

#### South Africa

Transvaal  
Stavoren **20:398**

#### United States

California  
Antelope mine, Sierra County (clusters to 1 cm) **24:381**  
Nevada  
Majuba Hill mine: **25:211**; euhedral to 2 mm **16:64–65c,d**, **16:66p**; spheres to 1.1 cm **24:177**  
Utah  
Gold Hill mine **24:20**

### CLINOHEDRITE

#### United States

New Jersey  
Franklin **19:(274)**

### CLINOHUMITE

#### Brazil

São Paulo  
Jacupiranga mine (crystals) **15:265q**

#### Canada

Ontario  
York River tactite zone, near Bancroft **13:227n**

#### Greenland

Gardiner complex: "titanclinohumite" **24:G56n**; titaniferous **16:492**

#### Tajikistan (Tajikistan; formerly USSR)

Kukh-i-Lal, Pamir Mountains (gemmy 2 cm crystal) **24:224p**, **24:226**

#### United States

California  
Jensen quarry, Riverside County (5 mm crystals) **15:280**

### CLINOJIMTHOMPSONITE

#### United States

Vermont  
Carlton talc quarry, near Chester **10:51h,q**

### CLINOMIMETITE

Described; 5 localities **24:307–310h,p,q**

#### Germany

Obersachsen  
Johanngeorgenstadt (stout prismatic to 9 mm) **24:308–309p,q**

#### United States

Utah  
Eureka, Juab County (thin prismatic to 8 mm) **24:308–309p,q**

### CLINOPTILOLITE

#### United States

Arizona  
Clifton roadcuts, Greenlee County (stacked plates) **12:44**  
California  
Agoura (southwest of), Los Angeles County **1:114–115p**, **8:433n**  
Wyoming  
Yellowstone National Park (micro) **12:30p,q**

### CLINOPYROXENE GROUP

*See also names of individual species*

#### Canada

Ontario  
Desmont mine, near Wilberforce **13:225**  
Several localities **13:78**

#### Greece

Laurium (diopside-hedenbergite series) **17:187**

#### Moon

2 mm pink, "martini-glass" shaped, colorless core **2:56p**

#### Russia (formerly USSR)

Lake Baikal district **1:61h**  
Pereval mine, Lake Baikal district (green, Cr- or V-bearing) **1:64**

### CLINOSAFFLORITE

#### Morocco

Bou Azzer **10:33p**

### CLINOTYROLITE

#### United States

Nevada  
Lovelock mine, Churchill County (micro) **21:484n**

### CLINOUNGEMACHITE

#### Chile

Chuquicamata **9:329d,c**

### CLINOZOISITE

#### Canada

Québec  
Jeffrey mine **9:249**, **10:76n**, **10:79q**

#### Norway

Radøy Island, Hordaland (6 cm terminated) **22:391n**

#### South Africa

Transvaal  
Messina district (columnar aggregates) **22:199**

#### United States

Arizona  
Bisbee district (after biotite) **12:302n**  
New Cornelia mine, Pima County (tentative id) **14:295**  
California  
Darwin district, Inyo County **15:(14)**  
Jensen quarry, Riverside County **15:279p**  
Little Three pegmatites, San Diego County (epidote-clinozoisite) **20:121**

#### Colorado

Italian Mountain area, Gunnison County (some manganiferous) **15:81p**

#### Idaho

Sawtooth batholith **24:199n**

#### Maine

Sanford deposit, York County (crystals to 4 cm) **24:362**

#### Maryland

Hunting Hill quarry, Rockville, Montgomery County **19:332n**

#### Massachusetts

Chester emery mines **9:238**

#### New Mexico

Iron Mountain, Sierra County **20:60**

#### Pennsylvania

Keystone Trappe Rock quarry, Chester County **2:19n**

#### Vermont

Eden Mills, Lamoille County (terminated sprays to 6 cm) **25:214**

#### Washington

Denny Mountain, King County **8:15–18**

### CLINTONITE

#### United States

Alaska  
Green Monster Mountain area, Prince of Wales Island (deep green flower-like aggregates to 2 cm) **8:11n**  
California  
Jensen quarry, Riverside County **15:288n**  
Montana  
Dry Gulch skarn locality, near Helena **23:424**  
New York  
Amity area, Orange County **9:86–87p,h**, **10:252h**

### COALINGITE

#### United States

Maryland  
Hunting Hill quarry, Montgomery County **19:332n**  
Rockville Crushed Stone Co. quarry, Montgomery County (coatings) **17:(127)**

### COBALTITE

#### Australia

Queensland  
Mt. Cobalt mine (smolianinovite after some) **19:489**  
Mt. Isa mine **19:479**  
South Australia  
Kurilla mine **19:413d**  
Walleroo mine **19:413d**

#### Canada

British Columbia  
Rocher Déboulé mine, near Hazelton (1 cm octahedrons) **15:90–91**  
Northwest Territories  
Port Radium **20:(207)**  
Ontario  
Cobalt Lake (near) (micro) **13:110n**  
Silver Islet mine **17:(59)**

#### England

Cornwall  
Botallack district (massive) **24:279n**

#### Germany

Halle  
Mansfeld Kupferschiefer **17:(10)**

#### Norway

Kongsberg **17:(35)**

#### Scotland

Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**

#### Sweden

Håkansboda mine, Västmanland: **22:(46)**, **23:277n**; crystals to 15 mm **3:38–39p**  
Tunaberg **19:149h,p**

#### United States

Missouri  
Pea Ridge mine, Washington County (to 2 mm) **22:383n**  
North Carolina  
Bald Knob, Alleghany County (grains) **12:171**  
Pennsylvania  
French Creek mine (octahedral) **25:114**  
Three occurrences **25:114**

### COBALTOMENITE

#### Bolivia

El Dragón mine, Potosí (pink crystals to 1 mm) **21:142p,c**

## GENERAL INDEX

### COCONINOITE

#### United States

- Utah
  - White Canyon district, San Juan County (micro crystals) **21:484n**

### COERULEOLACTITE

#### Brazil

- Minas Gerais
  - Cruzeiro mine (veinlets) **11:370**

### COHENITE

#### Moon

- Localities not specified (traces) **1:21–22**

### COINS AND MEDALS

- Andreas taler (1590) **17:8**
- Australian Nugget gold coins introduced **18:116**
- Joachimstaler (1520–1528) **17:15**

### COLEMANITE

History **4:272–274h,p**

Toxicity **11:6**

#### Turkey

- Bigadiç, Anatolia (euhedral to 30 cm) **10:124**
- Eskişehir **11:317n**

#### United States

- California
  - Biddy McCarthy mine, Inyo County (after inyoite) **5:175–176**
  - Billie mine, Death Valley **20:(70), 20:387n**
  - Boron, Kern County: **2:37n, 8:432n**; acicular realgar in **24:311n, 24:312p**; some replacing ulexite **6:89, 6:90p**
  - Corkscrew mine, Inyo County (after inyoite crystals to 7 cm) **5:175–177p**
  - Russell mine, Inyo County **8:431n**
  - Terry borate mine, Inyo County (compact radial; hydroboracite poss. after) **8:503–504p**
  - Thompson mine, Inyo County: blocky crystals to 20 cm **5:67–73p,d,c**; fist-sized crystals **4:22n**

### COLLECTING NARRATIVES

*See also Departments and Columns—Mineral Stories; Departments and Columns—Historical Record*

- Altai #3 pegmatite, China, bureaucratic difficulties on IMA field trip to **23:439**
- American Mineralogist, An, 1920s expeditions of Samuel G. Gordon **4:256–261, 5:34–39, 5:59–66, 5:115–127, 5:160–166, 5:211–214, 5:257–264**
- American Tunnel (Sunnyside) mine, CO **10:385–386**
- Argentina **25:144–145**
- Cape York meteorite, Greenland **24:G62–63**
- Collector's Diary, Mark Chance Bandy **14:355–361, 15:67–74, 15:157–162**
- Dunton mine, ME, account of re-discovery of gem elbaite **6:14–21**
- Franklin, NJ, last piece of ore from mine **22:465–466**
- Glove mine, AZ, wulfenite cavern **14:302–305**
- Guerrero, Mexico, collectors searched by army patrol in **14:57–58**
- Hungary and Romania (Transylvania), 1802 expedition **21:83–95**
- Idarado mine, CO **10:386–392**
- India, zeolite collecting **7:250–252**
- Jones, Dick, collecting tales **14:102–104, 14:329–331**
- Lane, Fred “Boodle,” and “Boodle Barrels” **23:440–441**
- Los Lamentos, Mexico, 1949 trip **13:318–319**
- Mt. St-Hilaire, Québec **13:241–247**

New Jersey traprock silver specimen, history of **17:407–408**

Old Yuma mine, AZ **14:102–104**

Ontonagon River, MI, copper boulder **7:207–210**

Pocket blasted to prevent collecting, Naica, Mexico **18:148**

Poona area, India, cavansite discovery and recovery **22:415–420**

Red Cloud mine, Ed Over at (1938) **6:176–179**

Reneville mine, Congo, clandestine expedition into **10:180**

Romania (Transylvania) and Hungary, 1802 expedition **21:83–95**

Russia, collecting/museum trip to **24:481–488**

Scandinavia, collector's travels in (1990) **22:43–52**

Smokey Bear claim, NM, legal struggles **22:359–362**

Sweet Home mine, CO, rhodochrosite, **24:230**

Switzerland, bargaining for specimens at Kristall Café, Altdorf **5:109–110**

Thornberry Mountain, CA, axinite locality relocated **21:127–132**

Wheatly mine, PA, field trip to **15:49**

### COLLECTORS AND COLLECTING

Abandoned mines, collecting in **5:128–137, 5:246–247, 6:154–156, 20:178–180**

Access to collecting sites: becoming increasingly limited, editorial **6:2**; Blanchard mine closed to collecting **25:2**; Bureau of Mines developing method of plugging abandoned mines **25:162**; editorial **4:154**; letters **6:154–156, 6:318–320**; see also Collectors and Collecting—United States Government land

American (U.S. and predecessor colonies) collectors: prominent 18th century **25:H143–150**; prominent 19th century **19:371**

Ants used to mine garnets, AZ (1896) **14:133–134**

Appraisal of specimens, experiment in **8:38–40, 8:47–48**

Arizona: 1890s **14:133–135**; silver district, collecting suggestions **21:163ff**

Australia: classic collection dumped for lack of buyer **23:501**; early American interest in **19:365–376**; history **19:354**

Austrian collectors, prominent 18th century **25:H101–109**

Bequests to institutions not always appreciated or properly curated: alternatives **5:202–203**; editorial **5:152–154**; responses **5:247–248, 5:294–296**

“Best in Show” competition suggested: **2:51ff**; adopted for 1971 Tucson show **2:195**; responses **2:146**

Bolivia, transport of minerals without permit outlawed (1981) **12:393**

Brazilian collectors, prominent 18th century **25:H142–143**

British collectors: **25:43–44**; prominent 18th century **25:H64–89**

Carbide lamp, advantages over electric for underground collecting **5:246–247**

Caves, collecting in, discouraged **19:267**

CB radio communication for collectors **9:3**

Clean-up/collecting field trip to trashed area, Washington Pass, WA **23:79–80**

Climax mine, CO, management deliberately destroys specimens **10:330**

Collecting as theft: France **11:53**; highgrading by miners **9:67**; Smokey Bear claim, NM **20:70–71, 22:359–362**; Tsumeb Corporation policy on collecting **9:61–62**

Collection catalogs, 16th through 18th centuries, bibliography of **25:H201–228**

Collector, The (column, Richard A. Bideaux) **2:185–186, 2:201, 2:249–251, 5:106–108**

Collector companies **7:98–99, 18:362**

Collectors active 1530–1799, census of 1200 individuals **25:H157–199**

Collectors and collecting hobbies, general observations on **6:52, 6:230–233**

*Collector's Catalog, The, and A System of Mineral Collecting* **23:411b**

Collectors' cemetery suggested (letter) **13:127**

CompuServ collector's forum **24:322–323**

Connoisseurship in minerals (editorial) **21:7–12**

Contract specimen recovery **7:98–99, 18:362**

Dana collector, What is a (Q&A column) **2:181**

Danish collectors, prominent 18th century **25:H128–130**

Dealers, role in supporting the hobby (editorial) **2:242–243**

Delay in characterizing suspected new species frustrates collector **15:49**

*Digest of Mining Claim Law, 1977* **9:118b**

Display philosophy **5:147**

Disposition of prominent collections to institutions **2:281–282**

Dispositions of 170+ American mineral collections (1923 pamphlet by Frederick Canfield) **21:41–46**

Diversity in mineral collecting: guest editorial **22:410–411**; responses **23:286–288**

Does it [mineral collecting] pay? (1901 article) **12:174–175**

Dohrmann, A., collection sale, 1886 **23:7–13**

Dollar values of specimens, (in)significance of, to museums and collectors: editorial **4:230–231**; editorial **9:2**

Donating/bequeathing a micromount collection to a museum **15:249**

Donating private collections to museums (“Goncourt's will”) **3:283**

Early micromounter? (1825) **17:269**

Earthquakes, protecting collections from **25:245–247**

Eastern Europe, collecting and travelling in **19:5–6**

Etiquette: code for geological field work **8:131**; field collecting **1:39ff**; viewing a private collection **3:62ff**

European collectors: collecting priorities compared **23:268**; prominent 16th century **25:H18–38**; prominent 17th century **25:H39–42**; prominent 18th century **25:H43–47ff**

Exchange of specimens with museums **3:188, 3:196ff**

Field-collecting dealers, survey of **14:33–34**

Finnish collectors, prominent 18th century **25:H136**

Forest Service Quartz Contract Program (Arkansas) statistics **22:155–156**

Fragmentation of specimens: editorial **17:226**; responses **18:167–168**

Franklin, NJ, preservation of Buckwheat dump **2:276ff**

French collectors, 18th century **25:H48–63**

*Gem, Mineral, and Gold Collector's Guide to Mineral Laws and Regulations* (1981) **13:175b**

Gemstones, rare species **23:437**

German collectors, prominent 18th century **25:H91–100**

Glossary of collectors' and dealers' terms: **5:52–55**; letter **5:198**

Goals, Miller calcite collection **18:405–406**

Gold, collecting **18:2–3**

Ground Hog Day suggested as official mineral collectors' holiday **14:61, 14:206**

Guide articles (photography, building a library, staking claims, etc.), list of **24:418**

*Handbook of Crystal and Mineral Collecting* **4:44b**

Hazards of collecting underground: **5:128–137, 5:246–247, 6:154–156, 6:266**; abandoned mines **22:379**; salt mine **14:90**

- Health information hotline for overseas travel **22:3**
- “Hey, that looks like a . . .” (editorial) **9:66–67**
- History of mineral collecting (special issue) **25:#6**
- Hungarian collectors, prominent 18th century **25:H109–114**
- Icelandic collectors, prominent 18th century **25:H131**
- Investing in minerals: editorial **7:266–267**; investment-collecting guidelines **22:3**
- Irish collectors, prominent 18th century **25:H90**
- Italian collectors, prominent 18th century **25:H121–124**
- Journal of the History of Collections* introduced **21:510**
- Labels, personalized, made inexpensively **12:173–174**
- Locality notations: **23:285**; improving (guest editorial) **22:330**; need for complete **19:342**
- Locality-oriented mineral societies encouraged (editorial) **13:130**
- Locality preservation case studies **7:101–104**, **7:157–159**, **7:269–271**, **11:57–58**, **22:367–376**
- Locality species lists, about **22:133–134**
- Low-budget and zero-budget collecting strategies **14:2–3**
- Low Countries collectors, prominent 18th century **25:H114–118**
- Meteorites **19:271**
- Mexican collectors, prominent 18th century **25:H140–142**
- Mineral auctions at Sotheby’s, London **2:5–8**
- “Mineral conservation” **4:156–157**
- Mineral fraud (guest editorial) **12:194**
- Mineral Museums Advisory Council statement on loss of rare specimens **21:495**
- Mineralogical “fellowship” among collectors (editorial) **2:2**
- Mineral parks and other areas specifically for collecting: Buckwheat dump, Franklin, NJ **2:276ff**; overview **2:236–237**
- Mining claims for the mineral collector: **2:100**, **8:43–46**, **8:412–413**; legal points, info resources **9:101–102**
- Montgomery mineral sale (1939) **22:465**
- Museums and the amateur mineralogist (editorial) **20:418–419**
- New collectors, helping (editorial) **8:426**
- Newcomers to clubs, suggestions for (editorial) **8:70–71**
- New England: early collections **1:6–10**; early mineral specimens **2:232–234**
- New species: issues regarding collectors and editorial **23:2–3**; suspected, how to handle **6:220–221**
- Norwegian collectors (prominent 18th century) **25:H130–131**
- Number of U.S. collectors, problems of determining **9:3**
- Organization and arrangement of collections **2:133–134**
- Perky box, history of **23:208**
- Perry, Nathan H., correspondence **18:119–120**
- Pharmaceutical mineral collecting **25:H14–15**
- Phelps Dodge Corporation **19:214**
- Planning for disposition of a personal collection: **10:66**; 1902 article **10:184**
- Portuguese collectors, 18th century **25:H142–143**
- Price code on Carl Bosch collection labels deciphered **9:187**, **11:56**, **11:387**
- Pricing of specimens: **6:213–214**, **8:38–40**, **8:47–48**; see also Collectors and Collecting—Specimen market trends
- Profile of a Collector (column) **1:11ff**, **1:54ff**
- Rare species collecting, dangers to science from: editorial **3:2**, **17:226**; letters **3:141–144**, **18:167–168**; see also Collectors and Collecting—Fragmentation of specimens; Collectors and Collecting—Species collectors
- Rare species, responsibility for verifying presence of on specimens: **11:66**; responses **11:274**
- Regulations, state by state survey published **23:4b**
- Rockhounding apparently declining: editorial **17:290–291**; letters **18:168–170**
- “Rockhound” vs. “mineral collector” (letter and editorial response) **2:274**
- Russian collectors, prominent 18th century **25:H125–128**
- Safes for collections **25:323–325**
- Sams, Perkins, collection **17:293**
- Scorodite, ludlamite, vivianite “from Mexico” of suspicious origin **2:38**
- Scottish collectors, prominent 17th and 18th centuries **25:H89–90**
- Seaman Mineral Museum, descriptions of major collections acquired **23:M75–76**
- Spanish collectors, prominent 18th century **25:H136–140**
- Specialization in mineral collecting: **3:12–13**; as means of focusing collecting efforts **21:511–513**; guest editorial **22:156**; increasing (editorial) **17:290–291**
- Species collectors, discussion: **4:96**; letters **3:189–192**, **3:237–239**, **3:283–284**; see also Collectors and Collecting—Rare species collecting
- Specimen market trends: 1983 **14:354**; 1984–85 **16:441**; see also Collectors and Collecting—Pricing of specimens
- Specimens preserved and sold by mining companies: **14:304**, **18:157**; see also Collectors and Collecting—Contract specimen recovery
- Specimens that “talk” (editorial) **25:322**
- Sterling mine (Antwerp, NY) closed to collecting due to collector’s carelessness **16:159**
- Survey of *Mineralogical Record* readers (1972) **4:15–17ff**
- Swapping guidelines (microminerals) **11:43–46**, **14:51**
- Swedish collectors, prominent 18th century **25:H132–136**
- Swedish hunting lodge, old collection in (letters) **22:223**, **22:478**
- Swiss collectors, prominent 18th century **25:H119–121**
- Systematic collecting (editorial) **1:37**
- System of Mineral Collecting, A* **23:411b**
- Trimming of specimens: editorial **17:163–165**; letters, cartoon **18:170–171**
- Twenty years of abundance (editorial; trends in specimen availability) **21:2–4**
- Type specimens (editorial) **19:226–227**
- Underground collecting: detecting bad air **5:246–247**; guide to, with checklists **5:128–137**; see also Collectors and Collecting—Hazards of collecting underground
- United States Government land, collecting on: American Lands Access Association formed **24:4**; increasing restrictions on (editorial) **23:374–375**; letter **23:286**; National Forests **20:70–71**, **20:160**; Smokey Bear claims, NM **22:359–366**; USFS Quartz Contract Program, AR **22:155–156**; see also Collectors and Collecting—Access to collecting sites
- Unregulated collecting, problems with in Norway (editorial) **8:262–263**, **8:264**
- Volume of sales from new (1988) finds **19:74**
- Young collectors, difficulties faced by (editorial) **7:2–3**

## COLLINSITE

## Australia

- South Australia  
Reaphook Hill, Flinders Range: **12:(105)**;  
crystalline crusts **9:23p**; micro crystals **5:77**
- Western Australia  
Milgun Station **12:(110)**

## Canada

- British Columbia  
Francois Lake (compact radial) **3:37**
- Yukon  
Rapid Creek and Big Fish River areas (crystals to 2.5 cm) **23:Y19–20p,q**

## United States

- South Dakota  
Tip Top mine **17:240**, **17:241p**, **17:251**

## COLOMBIA

- Cala **8:390s**, **8:517s**
- Chivor district, east northeast of Bogotá **1:143–149h,m,p,g**
- Chivor mine **1:143–147h,m,p,g**
- Coscuez mine, north of Muzo mine, Boyacá **1:146h**, **24:49**
- Gachalá mine, southwest of Chivor **1:144–147h,m,g**
- History and methods of emerald mining **1:142–149h,p,m,g**
- Muzo district, north of Bogotá **1:144–149h,p,m,g**, **24:388s**
- Muzo mine **1:145–147h,m,p,g**, **2:231**, **15:118s**, **15:145s**, **18:408s**, **20:353s**, **20:392s**, **20:394s**
- Peñas Blancas mine, northeast of Muzo mine **1:146h**

## COLORADO

- Adams mine, Bonita Peak, near Gladstone, Silverton district **7:302**
- Adams shaft, Leadville district, Lake County **16:193**, **16:197s**
- Adelaide mine, Leadville district, Lake County **16:197s**
- Ajax mine, Cripple Creek, Teller County **13:399s**
- Alaska mine, Poughkeepsie Gulch, San Juan County **2:143s**, **7:274s**
- Alice Glory Hole, Clear Creek County **18:185–187m,g,h**
- American mine, near Mosquito Pass, Park County **7:289–291s**
- American Nettie mine, Ouray district, Ouray County **14:141h**
- American Sisters mine, south of Lawson, Clear Creek County **7:283s**
- American Tunnel (Sunnyside) mine, Gladstone, San Juan County: **2:108–109s**, **2:143s**, **7:302**, **10:353–354p,h**, **10:385–386h,p**; flooded **10:329h**
- Amethyst Queen claims, near Copper City, Mesa County **17:209s**
- A.M.W. properties, Carbonate Hill, Leadville district, Lake County **16:183h**, **16:197s**
- Andes mine, near Mosquito Pass, Park County **7:291s**
- Anglo Saxon mine, near Gladstone, Silverton district **7:302s**
- Annamosa mine, Clear Creek County **11:38s**
- Antero Aquamarines* **25:147b**
- Antero lode (see Mt. Antero)
- Aspen Hill, Crystal Peak area, Park/Teller counties **16:221s**
- Atlantic Cable mine, Rico district, Dolores County **16:206p**, **16:212h**
- Atlas mine, Ouray County **18:84s**
- A.Y. and Minnie mine, California Gulch, Leadville district, Lake County **2:110s**, **7:289s**, **16:196**, **16:197s**
- Aztec mine, Rico district, Dolores County **16:212s**, **16:213s**
- Bachelor mine, Creede, Mineral County **7:297s**

## GENERAL INDEX

- Bachelor mine, north of Ouray, Ouray County: **14:142h,p, 19:92m, 19:98h**; closed **10:330h**
- Ballarat district, Boulder County **13:398s**
- Bancroft mine, Expectation Mountain, Rico district, Dolores County **16:213s**
- Bandora mine, South Mineral Creek, San Juan County **15:43s, 19:241–246m,p,h,g**
- Banker mine, Winfield district, Chaffee County **2:110s**
- Bassick mine, Custer County **7:274**
- Battle Mountain district, Eagle County (see Gilman district)
- Bear Creek, Specimen/Sentinel Rock area, El Paso County **16:221s**
- Bellman mine, Central City, Gilpin County **2:110s, 7:282s**
- Bibliography of Colorado Mining History* **25:147b**
- Bibliography of locality literature **18:214**
- Bibliography of mineralogy literature **10:15–16**
- Big Four mine, Leadville district, Lake County **16:197s**
- Big Four mine, north of Green Mountain Reservoir, Summit County **7:285s**
- Black and Blue prospect, Harris Park, Elk Creek, Park County **24:382s**
- Black Cloud shaft, Iowa Gulch, Leadville district, Lake County **7:289s, 16:185m, 16:190–191h,g, 19:113s, 20:388s, 25:60s**
- Black Crook mine, Lake City district, Hinsdale County **2:110s, 7:299s**
- Black Girl mine, Ouray County **19:(96)**
- Black Hawk tunnel, Rico Argentine mine, Silver Creek, Rico district, Dolores County **16:215s**
- Blackjack mine, near Ward, Boulder County **7:279–280s**
- Blaine tunnel, Rico Argentine mine, Silver Creek, Rico district, Dolores County **16:215s**
- Blow tunnel, Leadville district (see Yak tunnel)
- Boarding House shaft, Leadville (see Evening Star mine)
- Bon Homme mine, Cinnamon Pass, Hinsdale/San Juan counties **14:243h**
- Bonanza tunnel, Lake City district, Hinsdale County **14:247g**
- Bondholder vein, Breckenridge district, Summit County **18:56h, 18:57m**
- Book Cliffs, near Grand Junction, Mesa County **10:332s, 23:276s**
- Boss vein, Breckenridge district, Summit County **18:56h, 18:57m**
- Breckenridge district, Summit County **7:284–285, 18:51–61m,p,h,g, 18:84s, 19:264–265p, 19:269p**
- Breece Hill, Leadville district, Lake County **16:184–185m, 16:187–188h,g,p**
- Brobdignag prospect, northwest of Silverton, San Juan County **7:275, 8:391s, 10:358s**
- Brooklyn mine, north of Silverton, San Juan County **10:331s**
- Buffalo Boy mine, near Silverton, San Juan County: **7:301**; closed **10:330h**
- Bulldog mine, Homestake Puzzle System mining and milling complex, Creede, Mineral County **7:297s, 10:330s**
- Burleigh tunnel, Silver Plume, Clear Creek County **7:275s**
- Butterfly-Terrible mine, Ophir, San Miguel County **18:84s**
- California Gulch, Leadville district, Lake County **16:180–182p,h,g, 16:184–185m**
- California molybdenum mine, southwest of Mt. Antero, Chaffee County **10:340m, 10:343**
- Calumet Iron mine, Turret district, northeast of Salida, Chaffee County **10:332**
- Cameron Cone (see Crystal Park)
- Camp Bird (Campbird) mine, southwest of Ouray, Ouray County **7:300p, 7:302–303, 10:329h, 14:143–147p,h,g, 18:432s, 19:115–116s, 19:268s, 20:388, 22:382s**
- Cañon City, Fremont County **12:183s, 14:56s**
- Capitol mine, Leadville district, Lake County **16:197s**
- Carbonate Hill, Leadville district, Lake County **16:182–186p,h,g, 16:184m, 23:423s**
- Caribou mine, northwest of Nederland, Boulder County **7:280**
- Cashin mine, La Sal Creek, Montrose County **7:307, 18:360s**
- Cash mine, Gold Hill district, Boulder County **13:398s**
- Champion mine, Lake City, Hinsdale County **10:331s**
- Charter Oak mine, San Juan Mountains, Ouray County **17:235s**
- C.H.C. Hill, Rico district, Dolores County **16:207m, 16:209h**
- Cheeseman Reservoir, south of Deckers, Douglas County **16:221s**
- Cheops Pyramid (see Crystal Peak)
- Chimney claim, Vulcan district, Gunnison County **14:246g**
- Chrysolite mine, Leadville district, Lake County **16:184m, 16:196, 16:197s**
- Clara L. mine, Italian Mountain area, Gunnison County **15:76h**
- Clear Creek and Gilpin counties, mineralization pattern of (abstract) **25:76g**
- Clear Creek County **20:389s**
- Cleveland veins, Burroughs Park, Hinsdale County **14:244g**
- Climax molybdenum mine, Alicante Gulch, Fremont Pass, Lake County **2:106p, 2:107s, 4:141s, 7:286–287, 7:291p, 10:330h**
- Cold Spring mine, North Boulder Creek, Boulder County **7:280**
- Colonel Sellers mine, Leadville district, Lake County **16:197s**
- Colorado Central mine, Georgetown, Clear Creek County **7:275s**
- Colorado Gold, from the Pike's Peak Rush to the Present* **23:503b**
- Colorado Pegmatites* **20:402b**
- Colorado Prince mine, Leadville district, Lake County **16:197s**
- Colorado School of Mines geology museum **16:239–245**
- Commodore mine, Creede, Mineral County **7:297s, 19:265s**
- Comstock mine, La Plata County **7:276s**
- Concave tunnel (Silver Mountain mine), Brown Mountain, Ouray County **25:371–376h,m,g**
- Conger mine, North Boulder Creek, Boulder County **7:280**
- Contention mine, near Telluride, San Miguel County **14:148h**
- Cookstove Mountain (see Stove Mountain)
- Coronado mine, Leadville district, Lake County **16:196, 16:197s**
- Cresson mine, Cripple Creek district, Teller County **7:294s, 8:517s, 16:231–238h,m,p,g**
- Crested Butte area, Gunnison County **14:246g**
- Cripple Creek district, Teller County **5:185g, 7:135s, 7:291–294s, 13:395–399s, 16:231–233h,m,p, 18:84s**
- Cross mine, Caribou **10:331–332h**
- Cross mine, North Boulder Creek, Boulder County **7:280**
- Crystal Cave, Ouray County **19:92m, 19:98–99h**
- Crystallized minerals of the Colorado mineral belt **7:278–307**
- Crystal Mountain, Larimer County **19:332s**
- Crystal Park, base of Cameron Cone, El Paso County **5:185, 5:187, 16:220m,h**
- Crystal Peak (Cheops Pyramid, Topaz Butte, Sore Thumb) area, north of Florissant, Park and Teller counties **5:185, 16:219, 16:220m, 19:215–216s**
- Denver Museum of Natural History mineral collection **19:263–270**
- Diamond tunnel, Silver Plume, Clear Creek County **7:275s**
- Dixie mine, Ute Creek, south of Idaho Springs, Clear Creek County: **7:283s, 16:500s**; closed **10:330h**
- Dolly Varden mine, Pennsylvania Gulch, southwest of Sunset, Boulder County **7:280**
- Duffield mine, St. Peter's Dome district, El Paso County **5:187**
- Durango, San Juan County **19:309s**
- Eagle mine, Bonanza district, Saguache County **2:143s**
- Eagle mine, Gilman district, Eagle County: **7:285–286, 18:244n, 19:200–201s, 23:277s, 24:46s, 24:382s**; closed **10:330h**
- Eagle (south of), Eagle County **14:173ff,s**
- East Campbird mine **20:146s**
- Eight Mile Park, near Royal Gorge, Fremont County **4:110**
- End-of-the-Rainbow claim, Red Feather Lakes (see Rainbow's End)
- Enterprise mine, Newman Hill, Rico district, Dolores County **7:306s, 16:209–210h, 16:212**
- Equity mine, northwest of Creede, Mineral County **11:35m,h,g**
- Esmeralda lease, San Juan County (see Bandora mine)
- Eureka mine, Boulder Creek, Boulder County **7:280**
- Eureka (near), San Juan County **18:432s**
- Eureka tunnel, St. Peter's Dome district, El Paso County **5:187, 16:221s**
- Evening Star mine, Leadville district, Lake County **16:184m, 16:192, 16:195s, 16:196s, 16:197s**
- Everett mine, Georgetown, Clear Creek County **11:38s**
- Expectation Mountain, Rico district, Dolores County **16:211h**
- Express mine, Bonanza district, Saguache County **2:107s**
- Farncomb Hill, Breckenridge district, Summit County **18:56h, 18:57m, 18:58–60g, 19:264h**
- First National mine, Leadville district, Lake County **16:197s**
- Florence mine, Leadville (see Lilian mine)
- Forest Queen mine, Irwin district, Gunnison County **14:246–247h**
- Fortuna and Duncan prospect, Silver Creek, Dolores County **16:215s**
- Fountain vein, Breckenridge district, Summit County **18:56h, 18:57m**
- 4th of July mine, Eagle River Canyon, Eagle County **7:276s**
- Frank Hough mine, Lake City district, Hinsdale County **14:249h**
- Freeland mine, near Idaho Springs, Clear Creek County **7:282s**
- Fryer Hill, Leadville district, Lake County **16:184m, 16:186–187h,g**
- Galena Queen mine, near Gladstone, San Juan County **7:302**
- Garbutt mine, Breece Hill, Leadville district, Lake County **16:185m, 16:190h,g,p, 16:197s**
- Garibaldi mine, Leadville district, Lake County **16:197s**
- Gem mine, Central City, Gilpin County **2:110s, 7:282s**

## GENERAL INDEX

- Gem mine, north end of Gem Park, northwest of Silver Cliff, Custer County **7:274**
- Gem Park ultramafic complex, Custer County **7:95–96s**
- Genessee-Vanderbilt mine, Ouray County **19:92m, 19:99h**
- Georgetown area, Clear Creek County **7:275**
- Georgia A. mine, near Nederland, Boulder County **7:280s**
- Gilman (Battle Mountain) district, Sawatch Range, Eagle County **7:285–286**
- Gilpin and Clear Creek counties, mineralization pattern of (abstract) **25:76g**
- Gladstone, San Juan County **20:387–388s**
- Glen Cove, Pike's Peak, El Paso County **5:187, 16:220m, 16:221s**
- Glory Hole, Central City district, Gilpin County **18:141s**
- Goethite Hill, Crystal Peak area, Park/Teller counties **16:221s**
- Gold Anchor mine, Horse Creek, Rico district, Dolores County **16:212s**
- Golden Age mine, near Jamestown, Boulder County **7:279s, 18:84s**
- Golden area (Table Mountain), Jefferson County **19:153–184p,h,m,g**
- Golden Fleece mine, Lake City district, Hinsdale County **7:299s, 14:244h,g**
- Golden Gate Canyon, west of Golden, Jefferson County **23:424s**
- Golden Gate mine, Boulder County **18:84s**
- Golden Queen mine, Leadville district, Lake County **16:195s, 16:197s**
- Gold Flake vein, Breckenridge district, Summit County **18:56h, 18:57m**
- Gold Hill mine, Gold Hill district, Boulder County **13:393–394s**
- Gold King mine, Ophir, San Miguel County **18:84s**
- Gomer mine, Georgetown, Clear Creek County **2:110s**
- Good Friday mine, Boulder Creek, Boulder County **7:280**
- Good Hope vein, Vulcan district, Gunnison County **14:246g**
- Grand Junction (near), Mesa County **5:78s, 7:169**
- Grand View group, Nigger Baby Hill, Rico district, Dolores County **16:209h**
- Grape Creek, Royal Gorge area, Fremont County **18:432s**
- Great Hope mine, Leadville district, Lake County **16:185m, 16:195s, 16:197s**
- Greenback mine, Leadville district, Lake County **16:184m, 16:197s**
- Green River formation **8:368–379h,g**
- Grizzly Bear mine, Bear Creek Basin, east of Ouray, Ouray County **14:249p, 19:92m, 19:93–95h**
- Ground Hog mine, Battle Mountain, Gilman district, Eagle County **7:286s**
- Guide to Mineral Collecting at Ouray, Colorado, A* **5:90–91b**
- Guston mine, Red Mountain Pass, Ouray County **14:149h**
- Harris Park, Park County: **16:219–220m,g, 18:148s;** west of **22:382s**
- Hartsell, Park County **10:332s, 11:23–25g,p,h**
- Hedensburg mine, Georgetown, Clear Creek County **2:110s**
- Helen Hunt Falls area (see North Cheyenne Canyon)
- Henriett mine, Leadville district, Lake County **16:193s, 16:197s**
- Hibernia tunnel, Newman Hill, Rico district, Dolores County **16:215s**
- Hidden Treasure mine, Lake City, Hinsdale County **2:110s, 7:299s**
- Hilltop mine, Leadville district, Park County **16:191h, 16:197s**
- Home Sweet Home mine (see Sweet Home mine)
- Horse Creek, Rico district, Dolores County **16:211–212h**
- Humbolt mine, near Jamestown, Boulder County **11:36**
- Hummer mine, Paradox Valley, Montrose County **24:314s**
- Hunters Run, Specimen/Sentinel Rock area, El Paso County **16:221s**
- Ibex mine, Leadville district (see Little Jonny mine)
- Idarado mine, near Telluride, San Miguel/Ouray counties: **7:306, 10:386–392h, 14:148h, 14:244s, 18:409s, 24:47s;** closed **10:329h**
- Indiana vein, Brown Mountain, Ouray County **25:371–376h,m,g**
- Inexco fluorite mine, near Jamestown, Boulder County **11:36**
- Iowa Gulch, Leadville district, Lake County **16:184–185m, 16:190–191h,g**
- Iowa mine, North Boulder Creek, Boulder County **7:280**
- Irene mine, Breece Hill, Leadville district, Lake County **7:288s, 20:388s**
- Iron Clad mine, Newman Hill, Rico district, Dolores County **16:213–214s**
- Iron Draw mine, Expectation Mountain, Rico district, Dolores County **16:213s**
- Irwin district, Gunnison County **14:246–247h**
- Isolde mine, Cinnamon Pass, Hinsdale/San Juan counties **14:243h**
- Italian Mountain area, Gunnison County **7:269h, 15:75–88m,p,h,g**
- Jefferson County **19:325s**
- Jim Fisk mine, Leadville (see Julia-Fisk mine)
- Johnny Bull mine, Horse Creek, Rico district, Dolores County **16:211h**
- John Reed mine, Alicante Gulch, Fremont Pass, Lake County **2:106s, 7:288–289h**
- Jonathan mine, Ouray County **7:276s**
- Jones mine (St. Louis claim), Expectation Mountain, Rico district, Dolores County **16:206p, 16:211h**
- Julia-Fisk mine, Iowa Gulch, Leadville district, Lake County **2:107s, 7:289, 16:185m, 16:191h,g, 16:196, 16:197**
- K.D. pocket, Ouray County **24:46s**
- Keystone mine, Crested Butte, Gunnison County **7:294s**
- Key West vein, Breckenridge district, Summit County **18:56h, 18:57m**
- Khedive mine, northeast of Ouray, Ouray County **14:142h**
- Kirtley mine, Georgetown, Clear Creek County **11:38s**
- Kittie-Mac mine, Burns Gulch, south of Animas Forks, San Juan County **7:301**
- Kokomo, Summit County **7:275–276s**
- Krakajack #1 & #2 mines, south of Gold Hill, Boulder County **7:280**
- Krystal Krown claim, Larimar County **22:382s**
- Lake City district, Hinsdale County **7:299**
- Lake Como, San Juan County **18:360s**
- Lake George district, Park County **10:332s**
- La Sal mine, near Jamestown, Boulder County **7:279s**
- Leadville district, Mosquito Range, Lake County **7:288–289g, 16:171–201h,m,p,g**
- Lilian mine (Florence mine), Printer Boy Hill, Leadville district, Lake County **16:180h,g, 16:184m, 16:193s, 16:197s**
- Lily D. mine, C.H.C. Hill, Rico district, Dolores County **16:213s**
- Little Anne mine, Summit County **18:84s**
- Little Annie vein, Summitville district, Rio Grande County: **7:296g;** closed **10:330h**
- Little Giant mine, north of Lawson, Clear Creek County **7:283s**
- Little Jonny/Ibex mine, Breece Hill, Leadville district, Lake County **7:288, 16:184m, 16:187–190h,p,g, 16:193, 16:194, 16:197**
- Little Julia mine, Leadville (see Julia-Fisk mine)
- Little Patsy, South Platte district, Pikes Peak area, Douglas Lake County **16:221s, 21:429–430g**
- Little Todd vein, San Juan County (see Bandora mine)
- Locality index **10:323–328**
- Lone Tree mine, North Boulder Creek, Boulder County **7:280**
- Longfellow mine, Red Mountain Pass, Silverton district, Ouray County **7:302, 19:92m, 19:99h, 19:266s**
- Long Hollow, on Devils Head, Douglas County **5:185s**
- Lot mine, Iron Hill (Powderhorn) district, Gunnison County **25:373s**
- Luster pegmatite, South Platte district, Jefferson County **9:251s**
- Magnuson mine, Royal Gorge district, Fremont County **5:188**
- Mahala mine, Leadville district, Lake County **16:184m, 16:197s**
- Maid of Erin mine, Carbonate Hill, Leadville district, Lake County **16:182–183p,h, 16:184m, 16:193, 16:194, 16:196, 16:197**
- Maine mine, Silver Plume, Clear Creek County **7:274–275**
- Mammoth mine, Evans Gulch, east of Leadville, Lake County **2:110s, 7:288**
- Manchester mine, North Boulder Creek, Boulder County **7:280**
- Marshall Pass **9:113s**
- Mary Ann lode, near Argentine Pass, Clear Creek County **7:276s**
- Mary Murphy mine, Chrysolite Mountain, south of St. Elmo, Chalk Creek district, Chaffee County **2:110s, 7:291s**
- Mastodon mine, Eureka, Animas Forks district, San Juan County **14:243h**
- Matchless mine, Fryer Hill, Leadville district, Lake County **2:107s, 7:288, 7:293p, 16:184m, 16:187h,g, 16:194, 16:196, 16:197**
- Mayflower mine, Telluride County, San Miguel County **18:84s**
- Mendota tunnel, Silver Plume, Clear Creek County **7:275s**
- Meyers quarry, Royal Gorge district, Fremont County **5:188**
- Mica Lode, Royal Gorge district, Fremont County **5:188**
- Michael Breen mine, Ouray County **10:331s, 19:90–93m,p,h**
- Midnight mine, Pitkin County **7:291s**
- Mikado dump, Leadville district, Lake County **16:195s, 16:197s**
- Mike mine, San Juan County **8:517s**
- Mineral Farm mine, Ouray County **7:303s, 19:92m, 19:99h**
- Minerals of Colorado: a 100-year record* (to be updated) **10:368b**
- Miser's Delight mine, North Boulder Creek, Boulder County **7:280**
- Molly Gibson mine, Pitkin County **7:291s**
- Monte Queen mine, Lake City district, Hinsdale County **2:110s, 7:299s**
- Montezuma district, near Loveland Pass, Summit County **7:284**
- Moose mine, Willis Gulch, south of Central City, Gilpin County **2:110s, 7:280s**
- Morning Star mine, Leadville district, Lake County **16:184m, 16:192s, 16:196, 16:197s**

## GENERAL INDEX

- Mountain Monarch mine, near Ouray, Ouray County **2:110s, 7:303s, 10:331s, 14:54s, 19:90–93m,p,h**
- Mountain Springs mine, C.H.C. Hill, Rico district, Dolores County **7:307s, 16:209h**
- Mt. Antero, Chaffee County **2:102s, 10:332s, 10:339–346m,h,g, 18:360s, 19:269s, 20:388s, 24:222s**
- Mt. Rosa, St. Peter's Dome district, El Paso County **5:187**
- Mt. Sierra Blanca, San Luis County **20:11s**
- Moyer mine, California Gulch, Leadville district, Lake County **16:181–182h,g,p, 16:184m, 16:192s, 16:194s, 16:197**
- Muddy Creek, tributary to Crater Creek, San Juan Mountains **12:79–80m,g**
- Murry mine, Clear Creek County **11:38s**
- Nancy mine, Boulder County **13:398s**
- National Belle mine, San Juan Mountains, Ouray County **10:353p, 17:229–236h,p,g,m, 19:92m, 19:99h**
- Nederland, Boulder County **17:138s**
- Newman Hill, Rico district, Dolores County **16:207m, 16:209–210h,p**
- Newsboy mine, Ouray County **19:96h**
- New Star mine, Italian Mountain area, Gunnison County **15:86s**
- Nigger Baby Hill, Rico district, Dolores County **16:207m, 16:208–209h,g**
- North Cheyenne Canyon (Helen Hunt Falls area), El Paso County **16:221s**
- North Pole Basin, Treasury Mountain, Gunnison County **9:252–253g,s**
- North Star mine, Sultan Mountain, southwest of Silverton, San Juan County **7:302**
- Nugget mine, south of Nederland, Gilpin County **7:282s**
- Ohio mine, Ouray County **19:92m, 19:99h**
- Old Lot mine, Cebolla district, Gunnison County **14:245–246**
- Oliver claims (see Wigwam Creek)
- Ontario mine, Breckenridge district, Summit County **7:284s, 18:56h, 18:57m**
- Oregon group, South Platte district, Pikes Peak area, Douglas County **16:221s**
- Ores and Metals mine, Ouray County **19:92m, 19:99–100h, 19:103–104**
- Orphan Boy mine, Bald Mountain, Boulder County **7:280**
- Osceola mine, Cunningham Gulch, San Juan County: **7:301–302; closed 10:330h**
- O.S. prospect, Uncompaghere district, Ouray County **24:382s**
- Ouray County **5:90–91b, 18:84s, 19:89–102m,p,h,g**
- Owl Canyon, Larimer County **23:423–424s**
- Park County **19:115s**
- Peanut mine, Montrose County **18:336, 18:338s**
- Pelican-Bismark veins, between Lawson and Georgetown, Clear Creek County **7:283s**
- Penn Hill, near Mosquito Pass, Park County **7:289s**
- Phillips Extension-Hoosier mine, North Boulder Creek, Boulder County **7:280**
- Phoenix mine, C.H.C. Hill, Rico district, Dolores County **16:209h**
- Pikes Peak pluton area, Douglas/El Paso/Jefferson/Park/Teller counties **5:183–189h,g, 7:59s, 10:373–384h,g,m, 16:217–230m,g,h**
- Pitkin County (abandoned mine not named) **13:233–234s**
- Portland mine, southeast of Ouray, Ouray County **10:331h, 19:92m, 19:100–101h**
- Poughkeepsie Gulch, Ouray, San Juan County **7:274s**
- Powers mine, Russel Gulch, Gilpin County **7:280s**
- Princess Alice mine, Silver Creek, Clear Creek County **7:282s**
- Printer Boy mine, Printer Boy Hill, Leadville district, Lake County **16:180h,g, 16:193, 16:197s**
- Purple Haze claim, Larimar County **22:382s**
- Puzzle mine, Horse Creek, Rico district, Dolores County **16:212s**
- Quartz Hill, Crystal Peak area, Park/Teller counties **16:221s**
- Queen of the West mine, Argentine Pass, Summit County **2:143s, 7:284**
- Rainbow's End Amethyst Lode (End of the Rainbow claim), Red Feather Lakes, Larimer County **18:432s, 19:114s, 22:382s**
- R.A.M. mine, Leadville district, Lake County **16:184m, 16:194s, 16:197s**
- Ransom mine, near Silverton, San Juan County (closed) **10:330h**
- Rawley mine, Bonanza district, Saguache County **2:107s, 2:143s**
- Red Bonita mine, Bonita Peak, near Gladstone, Silverton district **7:302**
- Red Cloud mine, Boulder County **13:398s**
- Red Elephant group, north of Lawson, Clear Creek County **7:283s**
- Resurrection shaft, east of Leadville, Lake County **7:288, 16:186h, 16:194s, 16:197s**
- Revell #1 mine, north of Silver Cliff, Custer County **7:274**
- Revenge mine, Grand Island district, Eldora, Boulder County **7:280s**
- Revenue mine, southwest of Ouray **14:144h**
- Rex Hill area, Boulder County **13:398s**
- Rico Argentine mine, Silver Creek, Rico district, Dolores County **7:307s, 16:211h**
- Rico-Aspen mine, Newman Hill, Rico district, Dolores County **16:210h**
- Rico district, Dolores County **7:306–307, 16:203–216h,m,p,g**
- Royal Gorge district, Fremont County **5:188**
- Ruby Chief mine, Irwin district, Gunnison County **14:247h,g**
- Ruby mine, Maggie Gulch, San Juan County **7:301**
- Ruby Mountain, Nathrop, Chaffee County **18:198g, 23:491g**
- Russia mine, Mt. Lincoln, Alma district, Park County **2:107s, 7:289s**
- St. Louis claim, Expectation Mountain, Rico (see Jones mine)
- St. Louis tunnel, C.H.C. Hill, Rico district, Dolores County **16:205–206h**
- St. Peter's Dome, southwest of Colorado Springs, El Paso County **5:187–188, 16:221s, 21:100s**
- Sambo mine, Expectation Mountain, Rico district, Dolores County **16:213s**
- San Juan Mountains: **10:349–361h,m,p,g, 14:141–149h, 14:234–239h; table of 111 mineral species 10:357–360**
- School Section mine, Royal Gorge district, Fremont County **5:188**
- Seerie pegmatite, South Platte district, Pikes Peak area, Douglas County **16:221s**
- Señorita mine **19:92m, 19:96–97h**
- Sentinel Rock (Tenney Crags), St. Peter's Dome district, west of Colorado Springs, El Paso County **5:187, 16:220m, 16:221s**
- Seven-Thirty veins, between Lawson and Georgetown, Clear Creek County **7:283s**
- Shavano Peak, northwest of Salida, Chaffee County **12:365–367m,p,g**
- Sheepshead, Crystal Park Area, El Paso County **16:223s**
- Sheridan mine, Telluride district **14:148h**
- Sherman tunnel, Leadville district, Lake/Park counties **10:330h, 16:191h, 16:197s, 21:100s**
- Silver Bear mine, near Ouray County **2:110s, 7:303s**
- Silver Bell mine, Ophir, San Miguel County **7:306**
- Silver Cord mine, Carbonate Hill, Leadville district, Lake County **16:184m, 16:186, 16:194s, 16:197s**
- Silver Creek, Rico district, Dolores County **16:207m, 16:211h**
- Silver Link mine, Ouray County **25:373s**
- Silver Mountain mine, Ouray County (see Con-cave tunnel)
- Silver Plume area, Clear Creek County **7:274–275**
- Silver Point mine, Ouray County **19:92m, 19:101–102h**
- Silverton district, adjacent parts of San Juan, San Miguel, and Ouray counties: **7:299–306, 14:149h, 23:424s; see also Colorado—San Juan Mountains**
- Silver Wing mine, Burns Gulch, Gladstone, Silverton district **7:301, 14:243h**
- Slick Rock-Egnar area, San Miguel County **22:382s**
- Slide mine, near Gold Hill, Boulder County **7:280s**
- Sloan diatremes (see State Line diatremes)
- Smuggler mine, Pitkin County **7:291s**
- Smuggler mine, Telluride district: **14:148h; see also Colorado—Smuggler-Union mine**
- Smuggler-Union mine, near Pandora, Telluride district, San Miguel County **2:143s, 14:147–148h,p,g, 16:244s**
- Sore Thumb (see Crystal Peak)
- South Platte district, Pikes Peak area, Douglas County **16:221s**
- South Platte district rare-earth pegmatites, Jefferson County **9:251g, 20:389–390s**
- Special issues **7:#6, 10:#2, 16:#3**
- Specimen Rock (Tenney Crags), St. Peter's Dome district, west of Colorado Springs, El Paso County **5:187, 16:220m, 16:221s**
- Spider Leg mine, North Boulder Creek, Boulder County **7:280**
- Spruce Grove Campground, north of Lake George, Park County **16:220m, 16:221s**
- Star mine, Italian Mountain area, Gunnison County **15:75–76h, 15:78p**
- State Line diatremes, near Virginia Dale, Larimer County/Albany County, WY **13:205–208h,g,m,p**
- Stevens ranch, Pikes Peak **5:185s**
- Stewart mine, Italian Mountain area, Gunnison County **15:76h**
- Stoneham (near), Weld County **17:255–258p,h,m,g, 21:97**
- Stone mine, California Gulch, Leadville district **16:192s**
- Stove (Cook Stove) Mountain, St. Peter's Dome district, El Paso County **5:187, 8:93s, 16:220m, 16:221s**
- Sugarloaf Mountain, St. Peter's Dome district, El Paso County **5:187**
- Sullivan Mountain, Montezuma, Summit County **7:290s**
- Sultan mine, Silverton district, San Juan County **16:180s**
- Summitville district, Rio Grande County **7:296**
- Sunnyside mine, Eureka Gulch, San Juan County: **2:143s, 14:243; see also Colorado—American Tunnel mine**
- Sweet Home mine, Buckskin Gulch, Alma district, Park County: **2:107s, 7:289s, 10:333–338g,m,p,h, 19:268s, 23:45s, 24:45, 24:401h, 25:59s, 25:211, 25:214s, 25:373s; mine name 24:55h, 24:401h**
- Tabasco mine, Cinnamon Pass, Hinsdale/San Juan counties **14:243h**
- Table Mountain, near Golden, Jefferson County **19:153–184p,h,m,g**
- Tanner Boy mine, Buckskin Gulch, Alma district, Park County **2:107s, 7:289s**
- Tarryall Mountains (Tarryalls) (see Spruce Grove Campground)
- Telluride district, San Miguel County **7:306**

## GENERAL INDEX

- Ten-Percenter mine, Teller County (Key-Hole Vug) **18:148–150p**
- Tenney Crags (Peaks) (see Specimen Rock; Sentinel Rock)
- Tip Top mine, North Boulder Creek, Boulder County **7:280**
- Titusville mine, Kendall Mountain **2:143s**
- Tomboy mine, Telluride, San Miguel County **18:84s**
- Tom Moore mines, north of Eureka, San Juan County **14:243h**
- Topaz Butte (see Crystal Peak)
- Topeka-Kentucky Giant vein, Brown Mountain, Ouray County **25:371–376h,m,g**
- Treasury tunnel, San Miguel/Ouray counties **10:388–389p,h**
- Tuckers tunnel prospect, north of Runlett Peak, La Plata County **11:37–38g**
- Tucker vein, Hayseed Tunnel, Chase Gulch, Gilpin County **22:382s**
- Tucson mine, California Gulch, Leadville district, Lake County **4:140–141s, 16:181h,g, 16:184m, 16:192, 16:194s, 16:196s, 16:197**
- Twenty-Six mine, Rosita, Custer County **7:274**
- Ulay mine, Lake City district, Hinsdale County **2:110s, 14:247h,g**
- Unawep Canyon, Mesa County **10:332s**
- Uncle Ned mine, Rico district, Dolores County **16:213s**
- Uncle Remus mine, Rico district, Dolores County **16:212s**
- Uncompahgre district, Ouray County **20:387s**
- Union Carbonate mine, Newman Hill, Rico district, Dolores County **16:210h**
- Union mine, Telluride district (see Smuggler-Union mine **14:148**)
- Urad mine, near Berthoud Pass, Clear Creek County: **2:105–106s; closed 10:330h**
- Ute and Ulay mine, Lake City district, Hinsdale County **7:299s**
- Ute mine, Lake City district, Hinsdale County **14:247h,g**
- Van Buskirk mine, Royal Gorge district, Fremont County **5:188**
- Vasco #6 mine, North Boulder Creek, Boulder County **7:280**
- Virginius mine, west of Ouray, Ouray County **14:142–143p,h,g**
- Vulcan claim, Vulcan district, Gunnison County **14:246g**
- Vulcan mine, Cebolla district, Gunnison County **7:294s**
- Wagon Wheel Gap fluor spar mine, southeast of Creede, Mineral County **24:23–29h,g,m**
- Wapiti mine, Breckenridge district, Summit County **7:284s**
- Ware & Carpenter mine, Breckenridge district, Summit County **18:84s**
- Wedge mine, northwest of Ouray, Ouray County **14:142h**
- Weldon mine, Leadville district, Lake County **16:196s, 16:197s**
- Wellington mine, C.H.C. Hill, Rico district, Dolores County **16:209h**
- Wellington mine, east of Breckenridge, Summit County **7:284–285**
- West Maroon Pass, Gunnison/Pitkin counties **8:363–367m,g,p**
- Whale mine (southeast of), Hall Valley, Park County **1:101s**
- White Cloud, South Platte district, Pikes Peak area, Douglas County **16:221s**
- Whitehorn, Fremont County **20:11s**
- White Mountain, south of Mt. Antero, Chaffee County **10:332s, 10:340–341m, 10:343–344g**
- White Raven mine, headwaters of Lefthand Creek, near Ward, Boulder County **7:279s**
- Wide West mine, Georgetown, Clear Creek County **11:38s**
- Wigwam Creek (Wigwam; Oliver claims), near Deckers, Jefferson County **16:220m, 16:221s**
- Winnie-Leuma mine, Leadville district, Lake County **16:193, 16:197s**
- Wire Patch mine, Breckenridge district, Summit County **7:284s, 18:53–56h, 18:57m, 18:60g**
- Wire Patch placer, Breckenridge district, Summit County **18:55–56h, 18:57m**
- Wolf Creek Pass, Mineral County **7:272g**
- Wolfstone mine, near Carbonate Hill, Leadville district, Lake County **7:288s, 16:182–183p,h,g, 16:184m, 16:191, 16:192, 16:194, 16:197**
- Wulfenite occurrences **21:100**
- Wyoming mine, near Red Cliff, Eagle County **16:500s, 17:341s**
- X-10-U-8 mine, Italian Mountain area, Gunnison County **15:84s, 15:86s**
- Yak tunnel (Blow tunnel), Carbonate Hill, Leadville district, Lake County **7:289, 16:183–186p,h,g, 16:184–185m, 16:192, 16:194s, 16:197s**
- Yankee Boy Basin, Ouray County (abstract: silver mines) **25:76h**
- Yankee Girl mine, Red Mountain Pass, Ouray County **14:149h, 19:(96)**
- Yellow Jacket mine, C.H.C. Hill, Rico district, Dolores County **16:209h**
- Yellow Pine mine, Crisman, Boulder County **11:38s**
- Yucca Hill, Crystal Peak area, Park/Teller counties **16:221s**
- Yukon mine, Cement Creek, near Gladstone, Silverton district, San Juan County **7:302s, 10:331**
- Zanett tunnel (see Grizzley Bear mine)
- Zuni mine, Anvil Mountain, north of Silverton, San Juan County **7:270h, 7:302**

### COLORADOITE

#### Australia

- Western Australia
  - Kalgoorlie **18:(28)**
  - Lake View and Star mines, Kalgoorlie **9:(114)**

#### United States

- California
  - Norwegian mine, near Tuttletown, Tuolumne County **18:63**
- Nevada
  - Getchell mine, Humboldt County **19:253**
  - Outlaw mine, Nye County (micro grains) **22:178**

### COLOR IN MINERALS

- Alexandrite effect **6:62, 14:163**
- Amphiboles, identification by pleochroism **10:252**
- Barite (sunlight either strengthens or fades blue color) **11:24**
- Beryl varieties **7:215–222**
- Calcite, blue, fades on heating (Bald Mountain, MT) **7:20–21**
- Calcite, cobaltian, found to contain variable amounts of Co **23:445–446q**
- Cerussite, yellow, not necessarily chromian **19:385**
- Color and Symmetry* **3:133b**
- Diamond, green, naturally irradiated by uraninite, Witwatersrand, South Africa **23:224**
- Diopside, Orford mine, Québec, not necessarily chromian **25:337q**
- Fluorite: alexandrite effect, green in sunlight, violet in incandescent light, Baveno, Italy **14:163; green in sunlight but colorless in artificial light, Plumos Mountains, AZ 6:62; purple due to radiation, Derbyshire orefield, England**

- 14:18; rare earth elements in, Weardale, England 13:12; sources of color 12:103–104; summary of current theories 13:30; unstable purple color, Rib Mountain, WI 12:96**

#### Garnet **24:63**

- Grossular vs. uvarovite **10:42**
- Interference colors in oil slicks and feldspars **3:18–22q**
- Irradiation Colors and Luminescence* **2:148ff,b**
- “Maxixe” beryl, deep blue that fades **7:216**
- Microcline var. amazonite, green due to Pb **2:56, 10:380q**
- Pyromorphite, color varies directly with AsO<sub>4</sub> substitution **13:286**
- Quartz (amethyst): **3:221–225q; color due to iron 13:68; smoky and amethystine 20:365–367**
- Quartz (blue): color due to zoisite inclusions or micro fractures **2:79–82; synthetic, “Aqua Aura” 20:323**
- Quartz (rose): color due to minute oriented rutile **2:226–227q; color intensified by radiation 18:375**
- Quartz (smoky): due to natural irradiation **22:363–364q; fading in sunlight, Sawtooth batholith, ID 24:196; smoky and amethystine 20:365–367**
- Rhodochrosite, fades in sunlight (Lake City district, CO) **7:299n**
- Sodalite with photoreversible yellow/pink color change, Mt. St-Hilaire, Québec **21:339, 21:486**
- Sphalerite, yellow and green poss. due to cobalt **22:444**
- Spodumene var. kunzite fading in sunlight **17:313**
- Standard color charts **3:130, 4:46–47**
- Stilpnomelane color influenced by ferric vs. ferrous iron content **15:211q**
- Titanite, green poss. due to vanadium **24:388n**
- Topaz: changed yellow to colorless by fire **1:91; light-sensitive, Pikes Peak area, CO 16:226n**
- Tourmaline **8:468–471, 16:346–347**
- Tugtupite with photoreversible color change, Mt. St-Hilaire, Québec **21:343**
- Wulfenite **3:200–201q**
- Zircon, red color fades in light but returns in darkness **10:87n**

### COLQUIRIITE

#### Brazil

- Paraíba
  - Serra Branca, south of Pedra Lavrada (micro crystals) **22:387n**

### COLUMBITE-TANTALITE SERIES

- See also Tantalite; Ferro-, Mangano-, Stibio-Columbite; Ferro-, Mangano-Tantalite*
- Discovery **1:47h**

#### Australia

- Queensland
  - Mica Creek area **19:475**

#### Brazil

- Minas Gerais
  - Córrego do Urucum pegmatite **17:313p**
  - Cruzeiro mine **11:370**
  - Énio pegmatite, near Galiléia (crystals to 4 cm) **12:69**
  - São Jose da Safira (placer crystals to 3 mm) **22:387n**
  - Telório mine, near Linópolis **14:(234)**
  - Urubu pegmatite, Araçuaí area **12:77**
  - Virgem da Lapa pegmatites **13:27, 13:28p**

#### Canada

- Ontario
  - Quadeville beryl-lyndochite quarry, Renfrew County (discoidal masses to 30 cm) **13:200p**
  - Rose quartz quarry near Quadeville (columbite) **10:155**

#### Greenland

- Ivigut (columbite; euhedral to 2 cm) **24:G35d,h**



**Madagascar**Anjanaboina **20**:196**Somalia**Locality not specified **20**:398**United States**

## California

Himalaya dike system, San Diego County (crystals to 5 cm) **8**:468qHimalaya mine, San Diego County (stibiotantalite-columbotantalite) **16**:420–423pLittle Three pegmatites, San Diego County: ferro/manganocolumbite **20**:120p, **20**:121q; stibiocolumbite/tantalite **20**:113p, **20**:123Tourmaline King mine, San Diego County (2.5 cm crystal) **8**:510

## Colorado

Little Patsy quarry, Jefferson County (columbite, 5 cm crystals) **21**:429Meyers quarry, Fremont County (columbite, masses to 270 kg) **5**:189Pikes Peak batholith **10**:377South Platte district, Jefferson County **20**:(389–390)Ten-Percenter mine (Key-hole vug), Teller County **18**:148–150

## Idaho

Sawtooth batholith (micro blades, sprays) **24**:192

## Maine

BB #7 quarry, Androscoggin County (columbite) **16**:(375)Bell pit, Oxford County (18 cm crystal) **6**:202p

## New Mexico

Harding mine (columbite-tantalite) **20**:64n

## North Carolina

Foote mine, Cleveland County (ferromite epitaxial on) **6**:276–277h,q

## Wisconsin

Rib Mountain, Marathon County (to 4 mm) **12**:96**COLUSITE**Locality not specified **18**:(336)**Chile**Chuquicamata **9**:(323)**Italy**

## Tuscany

Carrara region (most tetrahedrite id as) **18**:270dLa Facciata quarry **18**:270pLorano quarry **18**:270p**United States**

## Arizona

Campbell shaft, Bisbee **24**:428nMagma mine **14**:(82)

## California

Zinc Hill mine, Inyo County **15**:(14)

## Colorado

National Belle mine, Ouray County **17**:233nRed Mountain district, Ouray County **10**:358n**COMANCHEITE****United States**

## Texas

Mariposa mine, Brewster County (minute acicular) **21**:228**COMMONWEALTH OF INDEPENDENT STATES***Formerly USSR. See independent states: Azerbaijan, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan***COMPETITIVE EXHIBITS***See also Awards and Trophies; Shows*AFMS Uniform Rules, comments on: editorial **2**:147; letters **2**:273“Best in Show” competition suggested: announced for 1972 Tucson show **2**:195; editorial **2**:51ff; responses **2**:146Comments on competition (editorial) **6**:268–269  
Conduct of contests: editorial **7**:203–205; letter **7**:45–46Educational exhibit competition, guidelines for, by Friends of Mineralogy **4**:206ffFraud in Federation competitions (guest editorial) **12**:194Judges, qualifications of (letter) **7**:44Judging aesthetics vs. rarity: editorial **6**:102–103; letters **6**:260–265, **6**:316–318Record Forum discussion **7**:203–205Suggested reforms: editorial **6**:268–269; letters **6**:315–318Varietal names, use in competitive exhibits: editorial **2**:147; letters **2**:273**CONGO (PEOPLES REPUBLIC)***Formerly Middle Congo. See also Zaire*‘Mbumba, Pimbi deposit, Renneville **22**:217s,h, **22**:388s, **22**:478hPimbi deposit, Renneville **22**:478hRecent history **11**:115–116Renneville, northwest of Brazzaville **10**:180h, **11**:115–116h, **11**:319–320h, **16**:303sSanda mine, Mindouli **24**:237s, **24**:394sVs. Belgian Congo/Congo/Zaire **3**:147h, **11**:115–116**CONICALCITE****Australia**

## New South Wales

Kintore opencut, Broken Hill **19**:429

## South Australia

Dome Rock (after olivenite) **12**:107

## Western Australia

Bali East prospect, Ashburton Downs (coating) **24**:211**Namibia**Tsumeb: **9**:44n; masses, micro crystals; some plumbian, “parabaylonite” **8**:T22n, **8**:T71p**United States**

## Arizona

Ajo, Pima County: “olivenite” id as **11**:265; see also Conicalcrite—United States—Arizona—New Cornelia mineBisbee district **12**:302Higgins mine, Bisbee district (crystals to 9 mm) **12**:302dNew Cornelia mine, Pima County (minute crystals) **14**:295New Water Mountains, Yuma County **14**:(119)Shattuck shaft, Bisbee district (3 mm crystals) **12**:302

## California

Zinc Hill mine, Inyo County (minute balls) **6**:112, **6**:113p

## Colorado

Tuckers tunnel prospect, La Plata County (some plumbian) **11**:37–38p,q

## Nevada

Majuba Hill mine **24**:174

## New Mexico

Red Cloud mines, Lincoln County **11**:71Tres Hermanas Mountains, Luna County **20**:(57)

## Utah

Gold Hill **14**:56n, **19**:333n, **24**:18p**CONNECTICUT**Amethyst localities **21**:209sBecker quarry, West Willington, Tolland County **25**:377sBibliography of locality literature **18**:215Bibliography of mineralogy literature **10**:16Biermann (Bierman) quarry, Bethel, Fairfield County **6**:115m, **14**:365–366sBooth’s mine, south of Monroe, Fairfield County **2**:17Branchville, Fairfield County **4**:109g, **4**:112g, **4**:126s, **6**:115mCaptain Cook quarry, Dodgingtown, Fairfield County **6**:115mCase quarry, near Portland, Middlesex County **17**:342s, **19**:332sCheshire, New Haven County **12**:381sCinque quarry, off Laurel Street, East Haven, New Haven County **20**:463s, **24**:311Colebrook Dam, Colebrook, Litchfield County **6**:115m*Connecticut Mines and Minerals* **2**:139bConnecticut Yankee power plant, Haddam, Middlesex County **6**:115mEast Haven (I-95 roadcut), New Haven County **24**:311sFlat Rock quarry, Waterford, New London County **19**:332sGillette quarry, Haddam Neck, Easthampton, Middlesex County **23**:19–28h,m,p,gHaddam Neck, Middlesex County **19**:332sHaddam (Route 9 and Beaver Road), Middlesex County **6**:115mHewitt (Hewitt’s) quarry, Turkey Hill, Haddam, Middlesex County **1**:71s, **6**:115mLane’s mine, south of Monroe, Fairfield County **2**:17Linkpot **19**:332sLitchfield County **18**:360sLong Hill tungsten mine, Trumbull’s Old Mine Park, Trumbull, Fairfield County **7**:157hMiddletown, Middlesex County **20**:299s, **23**:424s*Mineral Collector’s Field Guide—Connecticut* **9**:257bMorris Dam, East Morris, Litchfield County **6**:115mNewtown, Fairfield County **14**:367–368sOxford, New Haven County **3**:36–37sParlor Rock Road, Trumbull, Fairfield County **6**:115mPelton quarry, Portland, Middlesex County **6**:115mPlainfield, “Moosup quarry,” Windham County **20**:390sReed’s Gap quarry, Wallingford, New Haven County **18**:145–146sRidgefield, Fairfield County **6**:115mSelden quarry, East Hampton, Middlesex County **6**:115mSlocum quarry, East Hampton, Middlesex County **6**:115mState Forest quarry, Cobalt, Middlesex County **6**:115mStrickland quarry, Portland, Middlesex County: **3**:203m, **4**:85, **4**:109g, **4**:125s, **6**:115m, **8**:330h, **14**:364s, **17**:269s, **19**:332s, **23**:424h; dumps removed for fill **23**:80hThomaston Dam, Thomaston, Litchfield County **4**:85, **10**:239–241h, **20**:463s, **23**:88sThomaston (Route 109 road cut), Litchfield County **6**:115mToll Gate quarry, Middletown, Middlesex County **6**:115mTrumbull, Fairfield County **1**:86s, **23**:499sWallingford, New Haven County **12**:382sWatertown, Litchfield County **1**:89–90s, **20**:460s, **20**:463s, **23**:88sWhite Rocks quarry, Middletown, Middlesex County: **6**:115m; closed **23**:424hWoodbury, Litchfield County **6**:115m

## GENERAL INDEX

### CONNELLITE

#### Australia

- Victoria
  - Flinders **19:456**
- South Australia
  - Spring Creek mine **12:(107)**
- Western Australia
  - Ashburton Downs (prismatic) **24:211**

#### Canada

- British Columbia
  - Menzies Bay, Vancouver Island **15:(89)**

#### England

- Cornwall
  - Botallack district ("talligite" id as; acicular to botryoidal) **24:279**
  - United mines, St. Day, Gwennap **24:269p**

#### Italy

- Sardinia
  - Sa Duchessa mine **15:372n**

#### New Zealand

- Maharahara mine, North Island **17:202**

#### United States

- Arizona
  - Bisbee district, Cochise County: **12:302**; "footeite" discredited as **5:106–108h**
  - Cole shaft, Bisbee district (crystals to 3 mm) **12:302**
  - Copper Queen mine, Bisbee district (1 cm acicular) **12:302d**
  - Czar shaft, Bisbee district **12:302**
  - Irish Mag shaft, Bisbee district **12:302**
  - Lowell shaft, Bisbee district ("ceruleofibrite" id as) **12:302d**
  - Mammoth mine, Pinal County **11:173**
  - New Cornelia mine, Pima County **14:(295)**
  - Southwest mine, Bisbee district: **12:302, 24:427p, 24:428**
  - Toughnut mine, Tombstone district **11:255n**
- Nevada
  - Majuba Hill mine (minute acicular) **24:173p, 24:174**
- Utah
  - Gold Hill mine (acicular; prismatic) **24:19p, 24:20**

### COOKEITE

#### Brazil

- Minas Gerais
  - Córrego do Urucum pegmatite **17:309**
  - Morro Redondo, Coronel Murta (2–3 mm crystals) **23:85**

#### Kazakhstan (formerly USSR)

- Kara-Oba (crystals) **23:494n**

#### United States

- Arkansas
  - Jeffrey quarry, Pulaski County (granular) **9:79**
  - Stand On Your Head #1 claim, Saline County: green to blue balls on quartz **17:151p**; some fl. green **22:381**
- California
  - Himalaya dike system, San Diego County **8:467–468**
  - Little Three pegmatites, San Diego County **20:121**
- Connecticut
  - Gillette quarry, Middlesex County (pinkish) **23:25**
- Maine
  - BB #7 quarry, Oxford County **16:(375)**
  - Bennett quarry: **22:382n**; after spodumene **25:183**; massive; fibrous **25:179–181**
  - Keith quarry, Androscoggin County **16:375**
  - Mt. Marie **16:(374)**
  - Mt. Mica: **16:372n**; molds after elbaite **16:385**
  - Mt. Rubellite: **16:373**; some after tourmaline **21:483n**

Pulsifer quarry, Androscoggin County **8:74–76p, 16:(375)**

#### Wisconsin

- Rib Mountain, Marathon County (crusts) **12:96**

### COPIAPITE

#### Canada

- British Columbia
  - Spatsum claim, near Cache Creek **15:92n**

#### Chile

- Chuquicamata **9:330**

#### Greenland

- Navarana Fjord (massive) **24:G49**

#### Italy

- Tuscany
  - Cetine mine **15:29**

#### United States

- Arizona
  - Campbell shaft, Bisbee district (post-mining crystals) **12:302**
  - Czar shaft, Bisbee district **12:302**
  - Junction shaft, Bisbee district **12:302**
- California
  - Kalkar quarry, Santa Cruz County **17:323n**
  - Stayton mine, Stayton district **20:433**
- Utah
  - Dexter No. 7 mine, Emery County **19:(117), 19:333n**

### COPPER

Cleaning: with commercial copper cleaner **3:280**; with lye **3:85, 3:184**

Flattened spinel twin **14:365d**

#### Australia

- New South Wales
  - Broken Hill: **19:424n**; euhedral **12:109p, 12:110**; various habits **7:29n**
  - Kintore opencut, Broken Hill **19:(428)**
- Queensland
  - Mt. Elliott mine (arborescent in gypsum) **19:489**
  - Mt. Isa mine: malachite after **19:482p**; wire, arborescent, leaf **19:479–480**
- South Australia
  - Burra Burra mine (massive, arborescent) **25:127**
  - Moonta mines **19:413**
  - Wallaroo mines **19:413, 19:415p**
- Victoria
  - Flinders area **19:456**
  - Red Cliff Head, Flinders area **19:456**

#### Canada

- British Columbia
  - Afton mine, near Kamloops (micro crystals) **22:384n**
  - Ajax pit, near Kamloops (with calcite) **22:384n**

#### Chile

- Andacollo mine, near Coquimbo: **11:115, 11:317p**; arborescent, some with thin gold coating, numerous spinel twins to 5 cm **11:27**
- Chuquicamata **9:323**
- Mina Abundanca, Copiapó district, Atacama **15:74**

#### Costa Rica

- Bajo Claras (dendritic) **18:365n**

#### Denmark

- Nolsoy Island, Færoe Islands **12:24d**
- Suderoy Island, Færoe Islands (grains, plates) **12:24**

#### England

- Cornwall
  - Botallack district (mossy, arborescent; some after cuprite) **24:279, 24:280p**
  - Fowey Consols, John's Lodge (dendritic) **1:(84)**

#### Derby

- Riber mine, Matlock (in calcite) **14:16n**
- Leicestershire
  - Locality not specified **25:44–45n**
- Stafford
  - Ecton Hill **14:(16)**

### Germany

- Rheinland-Pfalz
  - Bergmannstrost mine, Ems district (spongy masses; some post-mining crystals) **15:335p**
  - Friedrichsseggen mine **15:335d**
  - Rheinbreitbach (dendritic) **18:356n**
- Siegerland
  - Grube Wolf, Herdorf **20:483, 20:484p**

### Greece

- Kamaréza mine, Laurium **7:117n**

### Italy

- Tuscany
  - Elba (crystals) **11:27n**

### Namibia

- Onganja mine (various habits; some in calcite) **5:235n**
- Tsumeb: **8:T22–23, 8:T85p, 20:155p**; laser-induced "bloom" in green chalcedony **12:201p, 12:212–213**

### New Zealand

- Tui mine **6:30n**

### Norway

- Kongsberg **17:(35)**

### Russia (formerly USSR)

- Frolobskiy mine, Tourinsk, Ural Mountains (spiky groups) **24:226–227n**
- Talnakh deposit, Krasnoyarskiy Kray (auriferous; poss. aurocuproite) **13:398q,h**

### Scotland

- Strathclyde/Dumfries and Galloway
  - Leadhills-Wanlockhead district **12:(250)**

### South Africa

- Cape Province
  - Kalahari manganese field (sub-micro blebs) **22:284n**
- Transvaal
  - Messina district (fine wires filling quartz; platelets) **22:197**

### Spain

- Hiendelaencina district, Guadalajara **23:245**
- Horcajo mines, Ciudad Real (sheets; micro crystals) **25:25**

### United States

- Arizona
  - Bisbee district, Cochise County: **12:302–303**; auriferous; branching dodecahedral **23:280**; micro dendritic **10:299p**
  - Campbell shaft, Bisbee district (skeletal crystals to 10 cm; silver-coated crystals) **12:303p**
  - Cole shaft, Bisbee district: crystals to 17 cm; some after cuprite **12:296p, 12:303**; malachite after **12:308**
  - Copper Queen mine, Bisbee district (arborescent) **12:303**
  - Czar shaft, Bisbee district (silver-coated crystals) **12:303**
  - Dallas shaft, Bisbee district **12:296p**
  - Denn shaft, Bisbee district (large sharp crystals) **12:303**
  - Hoatson shaft, Bisbee district (spongy masses) **12:303**
  - Irish Mag shaft, Bisbee district: **12:296p**; after cuprite **12:303p**
  - Lavender pit, Bisbee district (post-mining on old timbers) **12:303**
  - Magma mine (arborescent spinel twins) **14:75, 14:76–77p**
  - Mission mine, Pima County (micro dendritic in gypsum) **11:264n, 24:311n, 24:312p**

## GENERAL INDEX

- New Cornelia mine, Pima County: in chrysocolla, polished **14:290p**; large masses and crystals **14:295**; rounded crystals to 4 cm, arborescent groups **14:286–287p**
- Ray mine: arborescent twinned to 10 cm **22:381**; arborescent, twisted spinel twins **6:39p**, **6:40**, **14:#5p** (cover photo), **14:314p**, **14:318–319**; elongated crystals to 14 cm **5:233–235p**; spinel-twinned **12:187n**
- California**
- Constitution mine, Alpine County (flakes) **22:36**
- Hale Creek mine, Trinity County **18:(347)**
- Colorado**
- Cashin mine, Montrose County: some with silver **7:307n**; with domeykite **18:(360)**
- Eagle mine, Eagle County (dendritic sheets) **7:286n**
- Little Jonny/Ibex mine, Leadville district (crystal “sprays”) **16:190n**, **16:192p**
- Mineral Farm mine, Ouray County **19:(99)**
- Silverton district, San Juan County **10:358n**
- Idaho**
- Caledonia mine, Shoshone County (dendritic) **12:344**
- Tyler mine, Shoshone County (silver-plated wires) **12:344**
- Michigan**
- Baltic mine, Houghton County (silver crystals on) **17:42p**
- Caledonia mine, Ontonagon County **18:(360)**
- Calumet & Hecla mine, Houghton County (“halfbreed”) **17:42p**
- Cliff mine, Keweenaw County (branching silver crystals on) **17:42p**
- Copper Harbor, Keweenaw County (dodecahedral to 7 cm) **24:47p**, **24:48n**
- Keweenaw County (in calcite) **18:(409)**
- Keweenaw Peninsula: after laumontite **23:M66**; crystallography, with 45 illustrations **23:M42–50p,d,c**; in calcite **23:M54–55p**, **23:M58–61p**; special issue **23:#2**
- Lake Superior mine, Houghton County (silver poss. epitaxial on) **17:43p**
- Lake Superior, off Eagle Harbor: huge crystalline masses **14:173**; 3 m mass, “The Manitou” **22:383n**
- Locality not specified (dodecahedral/trapezohedral crystal) **20:390**
- Mass mine, Ontonagon County (in micro natrolite) **24:311n**, **24:312p**
- Ojibway mine, Keweenaw County **13:181n**
- Ontonagon River, Ontonagon County (“Ontonagon Boulder”) **7:207–210p**
- Osceola #10 shaft, Houghton County (micro; some in datolite) **9:314**
- Rockwood, Monroe or Wayne County (dark blue, to 5 kg) **22:383n**
- South Kearsage mine, Houghton County (silver crystals on) **17:43p**
- White Pine mine, Ontonagon County: arborescent, arsenide and/or sulfide patina **22:383n**; 2 m sheets **18:360n**
- Wolverine mine, Houghton County (crystals on silver crystals) **17:46p**
- Nevada**
- Carissa pit, Lander County (arborescent) **24:383n**
- Majuba Hill mine: **16:(66)**; in coarse-grained cuprite **24:177**
- New Jersey**
- Chimney Rock quarry, Somerset County: chrysocolla after **9:30**; masses, dendrites **9:27–28**
- Franklin **19:274–275**
- Planten Avenue quarry, Passaic County (micro dendritic, spinel twinned, etc.) **17:129–130p,c,d,q**
- New Mexico**
- Graphic-Waldo mine, Magdalena district, Socorro County **20:20**
- Kelly mine, Magdalena district, Socorro County **20:19p**
- Magdalena district, Socorro County **20:20**
- Rose mine, Grant County (after azurite rhombs, rosettes to 5 cm) **25:198–202p,q**
- Pennsylvania**
- French Creek mine **25:(119)**
- Phoenixville **20:379**
- Utah**
- Beaver, Beaver County (pine cone embedded in) **10:31**, **10:32p**
- Gold Hill mine **24:20**
- Zaire**
- Kamoto mine (crystalline, with cobaltian dolomite) **23:495–496p**
- Mashamba West mine (arborescent, <1 cm) **22:17**
- 
- COPPER ACETATE HYDRATE**
- Prob. synthetic crystals on native copper specimens **12:49p**
- 
- COQUIMBITE**
- Australia**
- Queensland
- Mt. Isa mine **19:480**
- Canada**
- British Columbia
- Spatsum claim, near Cache Creek **15:92n**
- Chile**
- Chuquicamata **9:328**
- United States**
- Arizona
- Campbell shaft, Bisbee district (needles) **12:303**
- Cole shaft, Bisbee district **12:303**
- Czar shaft, Bisbee district (lavender crystals) **12:303**
- California
- Iron Mountain mine, Shasta County (post-mining) **22:382n**
- Utah**
- Dexter No. 7 mine, Emery County **19:117n**, **19:333n**
- 
- CORDEROITE**
- United States**
- Nevada
- Cordero mine, Humboldt County **16:45h**
- 
- CORDERITE**
- Canada**
- Manitoba
- Stall Lake mine, Snow Lake **19:333–334**
- Québec
- Mt. St-Hilaire (minute grains) **21:303n**
- Poudrette quarry **20:393**
- Germany**
- Rheinland-Pfalz
- Bellerberg: **12:384n**; micro **25:209p**
- Laacher See area, Eifel district (poss. osu-milite) **8:321**
- Greenland**
- Nordre Strømfjord (Nassuttooq) (transparent anhedral to 2 cm) **24:G15**
- Italy**
- Lombardy
- Baveno area: muscovite after some **14:164**; 1 cm prisms **14:163**
- Tuscany
- Roccatederighi, Grosseto (to 1 cm) **23:435n**
- 
- South Africa**
- Transvaal
- Messina district (grains) **22:197**
- Sri Lanka**
- Ratnapura **19:338n**
- United States**
- Colorado
- Italian Mountain area, Gunnison County **15:86n**
- Massachusetts
- Chester emery mines **9:240**
- New Mexico
- Harding mine **8:123n**
- 
- CORDYLITE-(Ce)**
- 
- Canada**
- Québec
- Mt. St-Hilaire: **10:104**, **13:(243)**; tabular; prismatic to 10 mm **21:303c,d**, **21:304p**
- Greenland**
- Narssárssuk pegmatite: crystals to 6 mm **5:121**; crystals to 3 mm **24:G47p,d,c**; 3 mm prismatic **21:303**
- 
- CORKITE**
- 
- Australia**
- New South Wales
- Kintore opencut, Broken Hill (corkite-beudantite) **19:429q**
- Western Australia
- Ashburton Downs (corkite-hinsdalite; minute crystalline) **24:211**
- Namibia**
- Tsumeb (crystals) **8:T23**
- United States**
- Nevada
- Killie mine, Elko County **18:417p–418**
- Outlaw mine, Nye County (minute pseudocubic) **22:179**, **22:180p**
- New Mexico
- Blanchard mine, Socorro County (micro) **22:384**
- Hansonburg district, Socorro County **20:40–41q**
- 
- CORNETITE**
- Four world localities **1:117**
- United States**
- Arizona
- Saginaw Hill, Pima County: **11:265n**; micro crystals **1:117–118c,d,q**; micro crystals—errata **2:47q**
- Zaire**
- Musonoi mine, Shaba **15:45n**
- 
- CORNUBITE**
- 
- Australia**
- Western Australia
- Ashburton Downs (minute crystals) **24:211p**
- England**
- Devon
- Bedford United quarry, Tavistock (on cornwallite) **19:337n**
- France**
- Cap Garonne mine, Var (micro botryoidal) **25:209p**
- Italy**
- Tuscany
- Calagio quarry **18:286**
- United States**
- Nevada
- Majuba Hill mine (crusts) **16:66n**
- Utah**
- Eureka Centennial mine, Tintic district **9:(113)**
- Gold Hill mine (minute plates) **24:19p**, **24:20**

## CORNWALLITE

**Australia**

- New South Wales  
Kintore opencut, Broken Hill **19:(428)**  
Queensland  
Blockade mine, Mt. Isa-Cloncurry district  
**19:474c, 19:489**  
Western Australia  
Ashburton Downs (minute crystals) **24:211**

**England**

- Devon  
Bedford United quarry, Tavistock (cornubite on) **19:337n**

**France**

- Rabéjac quarry, Lodéve, Hérault **23:(434)**  
Vosges **9:(114)**

**Spain**

- Mazarrón, Murcia: **25:(222)**; botryoidal **24:237n**

**United States**

- Arizona  
Bisbee district (unconfirmed) **12:(315)**  
Nevada  
Majuba Hill mine: **24:177n**; crusts **16:66n, 16:68p**  
Utah  
Gold Hill mine (masses; minute crystals) **24:19p, 24:20**

## CORONADITE

**Australia**

- New South Wales  
Kintore opencut, Broken Hill **19:(428)**  
Northern Territory  
Mt. Bonnie mine (between oriented layers of mimetite) **19:444–445p**  
Queensland  
Mt. Isa mine **19:480**  
South Australia  
Beltana mine, Flinders Range (2 mm prismatic; 6 mm casts after calcite) **22:452**  
Western Australia  
Ashburton Downs (coatings) **24:211**

**Bolivia**

- El Dragón mine, Potosí (minute masses) **21:142n**

**Brazil**

- Minas Gerais  
Cruzeiro quarry, São Jose da Safira (free-standing dendritic) **22:387n**

**Namibia**

- Tsumeb **8:T23n, 8:T56p**

**Germany**

- Rheinland-Pfalz  
Ems district **15:342**

**United States**

- Arizona  
Magma mine **14:(82)**  
Silver Bill mine, Cochise County: acicular **14:130**; micro acicular **11:261**  
Tonopah-Belmont mine, Maricopa County **19:142**  
White Tailed Deer shaft (near), Bisbee (grains) **24:428n**  
California  
Kalkar quarry, Santa Cruz County (powdery) **17:321**

## "CORUNDOPHILITE"

See *Clinocllore*

## CORUNDUM

- Ruby **19:125–126b**  
Ruby and sapphire **19:340b**  
**Afghanistan**  
Jegdalk, Sarobi, Nuristan (ruby, to 3 cm) **23:432**

**Australia**

- Northern Territory  
Mt. Brady (near), Harts Range (ruby, tabular to 5 cm) **11:371–375p,q**

**Brazil**

- Bahia  
Lagedinho (rose-red) **8:384**

**Canada**

- Ontario  
Bathurst Township, Lanark County (after spinel) **13:80**  
Craigmont area, Renfrew County: stocky crystals to 27 kg **13:202p**; stout bronze-colored crystals, several mines **13:85**  
Egan Chute, York River, Hastings County (crystals to 5 cm) **13:202–203p**  
Gutz Farm, Renfrew County: elongate crystals to 20 cm **13:202**; stocky crystals to 27 kg **13:202p, 13:85p**  
Harcourt (near) **21:485n**  
Lily Robertson pits, near Bancroft (star sapphire) **13:85n**  
Québec  
Mt. St-Hilaire (granular) **21:303**  
Poudrette quarry **19:334n**

**Czech Republic (formerly Czechoslovakia)**

- Pokojovice **19:(10)**

**Germany**

- Rheinland-Pfalz  
Laacher See area, Eifel district **8:315**

**Greenland**

- Fiskenæsset (Qeqertarsuaat) region (ruby; equant to tabular) **24:G12–13p**  
Kangerdluarssuk Fjord, east of Sukkertoppen (Maniitsoq) (pink, to 15 cm) **24:G15**

**India**

- Mysore district, Karnataka: **10:31, 10:32p**; ruby, to 2 cm **9:193**

**Italy**

- Liguria  
Val Sansobbia, above Albisola **10:86**

**Kenya**

- Taita **20:396**

**Myanmar (formerly Burma)**

- Mogok area ("padparadscha") **19:335n**

**Nepal**

- Chumar mine, Ganesh, Himal (pink, red) **23:435n**  
Ganesh, Himal (pink) **17:205n**

**Norway**

- Sandressjøen, island outside (crystals to 12 cm) **24:393n**

**Pakistan**

- Hunza region (ruby) **20:397**

**Russia (formerly USSR)**

- Ilmen Mountains, Ural Mountains (blue tabular) **25:50n**

**Scotland**

- Strathclyde  
Port na Clodheig, Isle of Mull (blue) **23:434n**

**South Africa**

- Transvaal  
Letaba district (151 kg crystal) **18:192p, 18:193**  
Locality not specified **5:263h**

**Sri Lanka**

- Balangoda, near Ratnapura (sapphire) **17:341n**  
Galbokka, Uva **25:57n**  
Locality not specified **15:44n**  
Ratnapura: sapphire **19:120n**; sapphire, 2–8 cm **18:368n**

**Tanzania**

- Arusha (ruby to 30 cm in zoisite) **23:436n**

**United States**

- California  
Champion mine, Mono County (blue crystals) **8:480**

- Jensen quarry, Riverside County **15:288n**  
Mt. San Jacinto area, Riverside County **18:360n**

**Massachusetts**

- Chester emery mines (granular; constituent of "emery") **9:238**

**New Jersey**

- Sterling Hill (reddish to 1 cm) **21:426**

**North Carolina**

- Franklin, Macon County (ruby) **1:(84), 1:(86)**

## COSALITE

**Canada**

- British Columbia  
Sunrise and Lead King groups (fibrous) **2:205**

**China**

- Chenzhou, Hunan (needles in quartz) **22:217**  
Chenzhou mine, Chenzhou, Hunan **25:140n**

**Kazakhstan (formerly USSR)**

- Kara-Oba: acicular in quartz **24:389n**; acicular to 2 cm **25:48p, 25:50n**

**United States**

- Arizona  
Campbell shaft, Bisbee district **12:303**  
California  
Darwin district, Inyo County **15:14n**  
Colorado  
San Juan Mountains **10:358n**

## COSTA RICA

- Bajo Claras **18:365s**  
Puente La Garita **18:365s**  
Turrialba volcano **18:365s**

## COSTIBITE

**Australia**

- New South Wales  
Broken Hill **19:(424)**  
Queensland  
Mt. Isa mine **19:480**

## COTUNNITE

**Greece**

- Laurium **17:186**

**Italy**

- Tuscany  
Niccioleta mine **10:291n**

**Scotland**

- Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**

**United States**

- Massachusetts  
Loudville mines, Hampshire County (unconfirmed; some id as barite) **6:296**

## COULSONITE

**United States**

- Nevada  
Buena Vista Hills, Lovelock **8:(390)**

## "COUSIN JACKS"

- Immigrant Cornish miners **18:376**

## COVELLITE

**Australia**

- New South Wales  
Kintore opencut, Broken Hill **19:429**  
Queensland  
Mt. Isa mine **19:480**  
Mt. Oxide mine **19:(485)**  
South Australia  
Moonta mines **19:413**  
Walleroo mines **19:413**

**Bolivia**

- El Dragón mine, Potosí (anhedral) **21:142n**

**Brazil**

- Minas Gerais  
Énio pegmatite, near Galiléia (in polished sections) **12:69n**

## GENERAL INDEX

- São Paulo  
Furnas mine (crystals) **6:283n**
- Canada**  
British Columbia  
Mt. Washington mine, Vancouver Island **15:90n**  
Northwest Territories  
Nanisivik mine (micro crystals) **21:533p**  
Port Radium **20:(207)**
- Chile**  
Chuquicamata **9:323n**
- France**  
Les Farges mine, Corrèze **13:(267)**
- Germany**  
Rheinland-Pfalz  
Friedrichslegen mine, Ems district **15:(342)**
- Greece**  
Laurium area **7:117**
- Italy**  
Tuscany  
Artana quarry, Carrara region **18:273p**  
Carrara region **18:272**
- Namibia**  
Onganja mine (crystals) **5:235n**  
Tsumeb (massive) **8:T23**
- New Zealand**  
Tui mine (replacing sphalerite) **6:29**
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**
- South Africa**  
Transvaal  
Messina mine **22:197n**
- United States**  
Arizona  
Bisbee district **12:303**  
Iron Cap mine, Graham County **19:(87)**  
Junction shaft, Bisbee district (crystals to 5 mm) **12:303**  
Lavender pit (Holbrook extension), Bisbee district (massive) **12:303**  
Magma mine **14:(82)**  
Mammoth mine, Pinal County (minute crystals) **11:164**  
New Cornelia mine, Pima County (grains) **14:295**  
Rowley mine, Maricopa County **5:17**  
79 mine **3:250**  
Tonopah-Belmont mine, Maricopa County **19:143**
- California  
Benitoite Gem mine, San Benito County **8:448n**  
Hale Creek mine, Trinity County (on wellsite) **19:(128)**  
Kalkar quarry, Santa Cruz County (coatings) **17:320**  
Monitor-Mogul district, Alpine County (in polished sections) **22:36**  
Thompson mine, Inyo County (coating pyrite) **15:14n**
- Colorado  
Eureka district, San Juan County **10:358n**  
Genessee-Vanderbilt mine, Ouray County **19:99**  
Little Annie vein, Rio Grande County: **10:330n**; after tabular chalcocite **7:296–297p**  
National Belle mine, Ouray County (coatings) **17:233n**  
Star mine, Italian Mountain area, Gunnison County **15:86n**
- Idaho  
Caledonia and Last Chance mines, Shoshone County (masses) **12:344**
- Michigan  
Cliff, Mendota, and Kingston mines, Keweenaw County **23:M61**  
White Pine mine, Ontonagon County **23:M61**
- Nevada  
Killie mine, Elko County (massive) **18:418**  
Majuba Hill mine: micro crystals **16:66**;  
spots of minute plates, post-mining **24:177**  
Outlaw mine, Nye County (grains) **22:178**
- New Jersey  
Paterson area, Passaic County **9:173**  
Sterling mine (massive) **25:100**
- New Mexico  
Graphic-Waldo mine, Socorro County **20:20**  
Iron Mask mine, Socorro County **20:20**  
Magdalena district, Socorro County **20:20**  
Sunshine #4 mine, Socorro County **20:37**
- Pennsylvania  
Chester County mine **20:379**  
French Creek mine (coating) **25:114**
- Zaire**  
Shinkolobwe mine **20:(276)**
- COWLESITE**
- Australia**  
Victoria  
Cairns Bay, Flinders area **19:454**
- Canada**  
British Columbia  
Monte Creek, Kamloops district **19:333n**
- Denmark**  
Dalsnåpa, Færoe Islands **12:15**  
Stremoy Island, Færoe Islands **12:15**
- Iceland**  
Hvammur **20:396**  
Mjóadalsá Canyon, near Hvammur **12:15p**
- Ireland**  
Locality not specified (micro) **10:173**
- United States**  
Colorado  
Table Mountain, Jefferson County **19:162q, 19:168p**  
Oregon  
Goble (near), Columbia County **22:57h**
- CRANDALLITE**
- Numerous world localities **4:121, 4:127**
- Australia**  
South Australia  
Iron Monarch quarry, Iron Knob: after wardite **12:106n**; crystals, white micro balls **12:105n**
- Brazil**  
Paraíba  
Alto Benedito pegmatite (strontian; 1 mm crystals) **22:183–185q,p,c**
- Ireland**  
Fort Lismeenagh, Shenagolden, County Limerick (sharp minute rhombs) **24:392n**
- Sweden**  
Leveäniemi iron mine, Norrbotten **20:346**
- United States**  
Arkansas  
Dug Hill (near), Garland County (after wavellite) **16:294**
- Maine  
Dunton quarry **20:390**
- New Hampshire  
Palermo #1 mine **4:127**
- New Mexico  
Mex-Tex mine, Socorro County **23:(425)**
- South Dakota  
Tip Top mine **17:240**
- Virginia  
Virginia Glass Sand Corp. quarry, Frederick County (spheres to 4 mm) **2:223–224p,q**
- CREASYITE**
- United States**  
Arizona  
Mammoth mine, Pinal County: **11:263p, 11:264n**; fibers, spheres **11:168**  
Tonopah-Belmont mine, Maricopa County **19:143**
- CREDNERITE**
- England**  
Somerset  
Higher Pitts mine, near Wells **8:302n**  
Merehead quarry, near Cranmore (crystals to 2.5 cm) **8:301p, 8:302**
- United States**  
Arizona  
Dallas and Hoatson shafts, Bisbee **24:428–429p**
- CREEDITE**
- Six world localities listed **6:278**
- Bolivia**  
Colquiri, La Paz Dept. (euhedral to 2.5 cm) **6:278–281h,c,q,d,p**
- Kazakhstan (formerly USSR)**  
Aktshatau: **20:398, 23:280**; 20 cm crystal plates **21:492**  
Locality not specified (white “cauliflower”) **18:159n**
- Mexico**  
Chihuahua  
Potosí mine, Santa Eulalia district: **18:162n**;  
crystals to 5 cm **16:303n, 16:304p**; 7 cm crystals **14:57n**  
Santa Eulalia district: crystals to 2.5 cm **12:389p**; 8 cm crystals **15:169p**; pink micro euhedral **16:147p**
- Durango  
Navidad mine, Rodeo: **20:147**; colorless **21:490n**
- Russia (formerly USSR)**  
Sverdlovsk area (?) **20:75n**
- South Africa**  
Cape Province  
N’Chwaning II mine (tiny micaceous) **22:284**
- United States**  
Arizona  
Grand Reef mine, Graham County (micro crystals) **11:223**  
Iron Cap mine, Graham County **19:(87)**
- California  
Defiance mine, Inyo County **15:14n**  
Thompson mine, Inyo County **15:14n**
- Colorado  
Wagon Wheel Gap mine, Mineral County (crystals to 1 cm) **24:26–28p,d,c,h**
- Nevada  
Hall mine, Nye County: **25:211**; drusy to 2 mm **24:222**  
Liberty mine, near Tonopah **15:313**
- New Mexico  
Blanchard claims, Socorro County **20:37**  
Mex-Tex group, Socorro County **20:37**
- Utah  
Liberty mine, Nye County **17:272p**
- CRICHTONITE**
- Brazil**  
Minas Gerais  
Córrego Bom Sucesso, near Serro **23:472n**  
Fazenda Guariba (“senaité” id as Pb-bearing crichtonite) **25:133–135p,q**
- CRISTOBALITE**
- Germany**  
Rheinland-Pfalz  
Laacher See area, Eifel district: **10:93p**; octahedral **8:315–316**

- Mexico**  
Hidalgo  
Cerro San Cristobal (oriented octahedra in obsidian) **3:279p, 3:280**  
Sonora  
Obregon **19:337n**
- Moon**  
Localities not specified **1:21q**
- United States**  
California  
Coso Hot Springs, Inyo County **8:(432)**
- 
- “CROCIDOLITE”  
*See Riebeckite*
- 
- CROCOITE**  
Removing gibbsite from **8:282**
- Australia**  
Tasmania  
Adelaide mine: **19:372h, 19:384–386p**; etched out of gibbsite **10:188–189p**; post-mining crystals **3:112**; 2.5 m crystal-lined cavity **3:111–113**  
Dundas area mines **12:108–109p, 19:116n**  
Eleven mines (crystals to 8 cm) **8:25–26p**  
Heazlewood mine **19:385h**  
Kapi mine (with yellow cerussite) **19:385**  
Localities not specified **8:24–26h,p, 19:374–375d,h, 22:(459)**  
Red Lead mine **19:(385), 19:386p, 20:(393), 23:84n**  
Western Australia  
Happy Jack mine, Comet Vale (with gold) **18:29**
- Russia (formerly USSR)**  
Beresovsk, Ural Mountains: **18:432n**; poss. locality **25:140n**
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**
- United States**  
Arizona  
Mammoth mine, Pinal County (unconfirmed) **11:176–177**  
California  
Darwin mines, Inyo County **15:(14)**
- 
- “CROMFORDITE”  
*See also Phosgenite*  
Locality not specified **4:79h**
- 
- CRONSTEDTITE**  
**France**  
Salsigue mine, Auge **17:(340)**
- Spain**  
Brunita mine, La Unión district, Murcia (micro crystals) **25:222n**
- 
- CROSSITE**  
**United States**  
California  
Benitoite Gem mine, San Benito County (fibers) **8:446, 8:451**
- 
- CROSSWORD PUZZLE**  
Puzzle: **18:174**; solution **18:179**
- 
- CRYOLITE**  
Cleaning iron oxides from **15:103**
- Canada**  
Québec  
Francon quarry, St. Michel: **9:105–106p, 17:339n**; crystals to 1 cm **7:135n**  
Mt. St-Hilaire: **19:364n, 23:429n**; pseudo-octahedral to 2 mm **21:303**
- Greenland**  
Ivigut: **2:27–28p, 18:357n, 24:G31–33h,c,d,p**; crystal specimens in Copenhagen museum **22:44**
- United States**  
New Mexico  
Point of Rocks, Colfax County (unknown #2) **20:(64)**  
Virginia  
Morefield mine, Amelia County **23:428n**
- 
- CRYOLITHIONITE**  
**Greenland**  
Ivigut **24:G33–34h,c,p**
- 
- CRYPTOMELANE**  
**Australia**  
New South Wales  
Kintore opencut, Broken Hill **19:(428)**  
Western Australia  
Ashburton Downs **24:211**
- Greece**  
Laurium-Kamaréza road, Sterea Ellas **25:279**
- South Africa**  
Cape Province  
Kalahari manganese field (compact acicular) **9:151**
- United States**  
Arizona  
Tonopah-Belmont mine, Maricopa County **19:143**  
White Tailed Deer shaft (near), Bisbee (acicular) **24:429**  
Pennsylvania  
Bachman mine, Northumberland County **11:(311)**  
Moore Hill, Cumberland County **11:(311)**
- 
- CRYSTAL CHEMISTRY AND STRUCTURE**  
Berzelius, Jöns Jacob **19:293–295**  
Calcite, effect of Mg on rhombohedral habit **19:401**  
*Crystal Chemistry and Refractivity* **20:402b**  
*Crystallography and Crystal Chemistry* **2:88b, 2:140b**  
Essay: minerals and metals **20:339–342**  
*Introduction to Crystal Chemistry, An* **1:81–82b**  
Thomsonite, Table Mountain, CO **19:174–180**  
Vanadium minerals **18:339–340**
- 
- CRYSTAL DRAWING**  
Dot projection method **4:175–176**  
*Shape*, crystal drawing program **18:116, 18:436, 19:342**
- 
- CRYSTAL GROWTH**  
*See also Curved, Bent, and Ring-Shaped Crystals*  
Copper and silver crystal habits, Michigan **23:M42–50**  
*Crystal Growth* **1:130b**  
*Crystal Growth in Gels* **2:87b**  
Crystal habit, factors influencing **10:125**  
Dendritic crystals **1:138**  
Fan- and ball-shaped aggregates **14:367–368**  
Fluorapatite (zoned blue/white) King Lithia mine, SD **15:362–366**  
Geometrical selection in spherical pyrite aggregates **7:179–181**  
*Growth of Single Crystals, The* **2:246ff,b**  
Halite, effect of presence on growth of gypsum **13:189**  
Mineral rings and cylinders **1:105–112**  
Negative crystals and “veil” inclusions in quartz **18:141–142**  
*Ontogeny of Minerals, The* **18:435–436b**  
Quartz, alternate coating of terminal faces explained **2:17ff**  
Quasi-crystals **25:85–93**  
Saddle-shaped habit of rhombohedral minerals **25:131**  
Screw dislocation and filiform habit of pyrite **20:457–464**  
Sphalerite morphology (Bulgaria) **22:444q**
- Spiral growth from screw dislocations in graphite **22:430p**  
State of the art: including bibliography **3:23–29**; synthesized minerals **3:54–61**; techniques **3:103–110**  
Sulfides observed forming at Steamboat Springs, NV **16:25**  
Tourmaline, Himalaya dike system, CA **8:468–472**  
Trough-shaped crystals (esp. pyromorphite) **13:267d**  
Twins, flattened, of normally equant minerals **14:363–367**  
Zoning in esophorite **21:418–422p,q**
- 
- CRYSTAL HEALING MOVEMENT**  
Effect on availability of specimens **19:209**  
Polished fluorite **19:211**
- 
- CRYSTALLOGRAPHY**  
Calcite morphology **24:451–461ff**  
Crystal drawings misoriented in numerous publications **23:284**  
Crystal-drawing software **19:342**  
*Crystallography and Crystal Chemistry* **2:88b, 2:140b**  
Gunnell, Mitchell, crystal sets **6:226–229**  
*Introduction to Crystal Geometry* **2:246b**  
*Introduction to the Methods of Optical Crystallography, An* **1:129–130b**  
One-circle optical goniometer: construction **1:56–57**; use **1:89–90**  
*Origins of the Science of Crystals* **1:129b**  
Penfield protractor for crystal drawing **20:183**  
Practical applications of knowledge of crystal structure **4:197–198**  
*Principles of Crystal Structure Determination* **2:280b**  
Pyrite **9:219–229**  
Quartz **4:7–14**  
Quasi-crystals **25:85–93**  
*X-Ray Crystallography* **1:130b**  
X-ray crystallography: powder method **2:174–179**; principles of **2:57–68**; single-crystal methods **2:111–122ff**  
*X-ray Data for Minerals* **5:95b**
- 
- CUBANITE**  
**Australia**  
Queensland  
Mt. Isa mine **19:480**  
South Australia  
Moonta mines **19:(412)**
- Brazil**  
Minas Gerais  
Énio pegmatite, near Galiléia (in polished sections) **12:69n**  
Morro Velho mine, Nova Lima: **2:11, 17:140p**; crystals to 2 mm **4:226p, 4:227**
- Canada**  
British Columbia  
T-3 mine, Thompson (1.5 cm twinned) **22:385n**  
Northwest Territories  
Port Radium **20:(207)**  
Ontario  
Strathcona mine, Onaping, near Sudbury: **17:272p**; micro twinned **13:109p**  
Québec  
Chibougamau: **18:431n, 19:210n, 19:213p**; twinned, on calcite **18:408n**  
Henderson No. 2 mine, Chibougamau: **15:49, 20:236, 20:393**; twins, sixlings to 3 cm **14:151–155p,c,q,d**  
Portage mine, Chibougamau **15:49c**
- Namibia**  
Tsumeb (grains) **8:T23n**

## GENERAL INDEX

- United States**  
 Arizona  
 Magma mine **14**:(82)  
 Nevada  
 Majuba Hill mine (minute blebs) **24**:174
- CUMENGITE**  
 Mineralogy of the boleite group; numerous world localities **5**:284–285h,p,q
- Australia**  
 Western Australia  
 Ashburton Downs (minute crystals) **24**:211p, **24**:212
- England**  
 Cornwall  
 Gunver Head, Padstow: micro bipyramidal **22**:390n; minute crystals **24**:392n
- Greece**  
 Laurium: micro, in slag **7**:121; minute crystals in slag **4**:262–263
- Mexico**  
 Baja California  
 Santa Rosalia (on boleite, 4 cm euhedral) **13**:(32p)
- CUMMINGTONITE**  
**United States**  
 Massachusetts  
 Chester emery mines **9**:240n  
 Montana  
 Lincoln County **20**:390
- CUPRITE**  
**Australia**  
 New South Wales  
 Broken Hill: **19**:424n; octahedra to 25 mm **7**:30n  
 Broken Hill Proprietary mine **19**:(419p)  
 Kintore opencut, Broken Hill **19**:(428)  
 Queensland  
 Blockade mine, Mt. Isa-Cloncurry district **19**:(489)  
 Mt. Glorious mine (massive) **19**:488  
 Mt. Isa mine, Black Rock opencut: **19**:480p; “chalcotrichite” **19**:471p  
 Mt. Oxide mine **19**:486  
 South Australia  
 Burra Burra mine: grey octahedral to 2 cm; some acicular **25**:127; malachite, chrysocolla after **15**:220–221p  
 Moonta mines **19**:413–414  
 Wallaroo mines **19**:413–414
- Canada**  
 British Columbia  
 Menzies Bay, Vancouver Island **15**:(89)
- Chile**  
 Chañarcillo **10**:201n  
 Chuquicamata (some fibrous; some after copper) **9**:324
- England**  
 Cornwall  
 Botallack district (some copper after) **24**:279n  
 Derby  
 Derbyshire orefield (massive) **14**:16  
 Leicestershire  
 Locality not specified **25**:44–45n
- France**  
 Chessy les Mines, Lyons: **2**:72; malachite-coated **11**:28  
 Montroc mine, Tarn (4 mm crystals) **23**:434n
- Germany**  
 Rheinland-Pfalz  
 Friedrichslegen mine (octahedrons to 3 mm) **15**:342  
 Siegerland  
 Neue Hoffnung mine, Wilgersdorf **7**:230p
- Greece**  
 Kamaréza mine, Laurium **7**:122
- Namibia**  
 Emke mine, Onganja (malachite coated, to 4 cm) **21**:174–175n  
 Kombat mine (sharp octahedrons) **15**:167p  
 Onganja: **18**:(193); acicular “chalcotrichite” in calcite **5**:235n; malachite on **18**:159n; sharp octahedral to 5 cm, coated with malachite **5**:78p  
 Tsumeb: crystals to 1.5 cm, dotted with malachite **9**:44p, **9**:45; dodecahedral to 2 cm **23**:277, **23**:278p; various habits to 3 cm **8**:T23, **8**:T49, **8**:T72–73p
- New Zealand**  
 Tui mine (micro crystals) **6**:30
- South Africa**  
 Transvaal  
 Messina district (in quartz) **22**:195p, **22**:197
- Spain**  
 Horcajo mines, Ciudad Real (micro crystals) **25**:25
- United States**  
 Alabama  
 Wood Copper mine, Cleburne County (minute crystals in slag) **9**:391p  
 Arizona  
 Bisbee district: **12**:303; micro columns **10**:299p  
 Blue Ball mine, Gila County (malachite after) **20**:449  
 Christmas mine, Gila County (micro) **11**:261  
 Cole shaft, Bisbee district: “chalcotrichite” **12**:301p; elongated cubes, some after delafossite **12**:303  
 Copper Queen mine, Bisbee (“chalcotrichite”; SEM photos) **9**:259p  
 Czar shaft, Bisbee district: after delafossite **12**:301p; 5 mm cubes, some poss. oriented on copper **12**:303  
 Dallas mine, Bisbee district (cubic) **12**:296p, **12**:301p, **12**:303  
 Denn shaft, Bisbee district (cubic to 1 cm) **12**:303  
 Grand Reef mine, Graham County (“chalcotrichite”) **11**:223, **11**:224p  
 Holbrook shaft, Bisbee district (cubic; “chalcotrichite”) **12**:304  
 Irish Mag shaft, Bisbee district (coating copper; 3 cm cubic) **12**:304  
 Lavender pit, Bisbee district: octahedral **12**:300p; 10-ton masses **12**:304  
 Magma mine **14**:(82)  
 Mammoth mine, Pinal County (acicular, “chalcotrichite”) **11**:168  
 Morenci mine, Greenlee County (fuzzy malachite on crystals to 2 cm) **22**:66–67  
 New Cornelia mine, Pima County: acicular, disseminated in calcite **14**:290p, **14**:295; tenorite after chalcotrichite **14**:297n  
 Ray mine: large cubes, octahedrons **14**:314–315p; oddly modified octahedron **14**:319p–320  
 Sacramento shaft, Bisbee district (dodecahedral; poss. locality) **12**:300p  
 Silver Bell mine, Pima County (black, “chalcotrichite”) **22**:381  
 Southwest mine, Bisbee district: **12**:304, **18**:245–246; clear cubic to 5 cm **24**:429, **24**:430p
- California  
 Darwin mines, Inyo County **15**:14n
- Idaho  
 Caledonia mine, Shoshone County (octahedral to 6 mm; replacing tetrahedrite) **12**:344
- Michigan  
 Algoma mine, Ontonagon County **23**:M61n  
 Allouez mine, Keweenaw County (octahedral to 7 mm; acicular in calcite) **23**:M61p
- Clark mine, Keweenaw County (some “chalcotrichite”) **14**:221–223p  
 Keweenaw Peninsula (several mines): **14**:221–223; patinas on copper; prob. post-mining **23**:M61p  
 Mendota mine, Keweenaw County **23**:M61n
- Nevada  
 Majuba Hill mine: masses **16**:66; octahedral to 2 mm; elongated **24**:177–178p
- New Jersey  
 Chimney Rock quarry, Somerset County (id as hematite) **9**:31
- New Mexico  
 Carnahan mine, San Pedro Mountains, Santa Fe County (malachite after) **20**:63n  
 Graphic-Waldo mine, Socorro County (malachite, azurite after) **20**:20  
 Magdalena district, Socorro County **20**:20  
 Rose mine, Grant County (replacing copper pseudomorphs after azurite) **25**:200–201  
 Sunshine #4 mine, Socorro County: **20**:37; in hemimorphite **20**:39p–40
- Oklahoma  
 Paoli (southeast of), Garvin County (some “chalcotrichite”) **17**:374
- Pennsylvania  
 Phoenixville **20**:379
- Zaire**  
 Dikuluwe: euhedral gemmy to 2 cm **22**:17c; gemmy, 1 cm **17**:341n  
 Kamoto mine (octahedra to 2 cm) **23**:495n  
 Likasa mine **22**:17h  
 Mashamba mine **20**:69, **20**:71p, **20**:146, **20**:485–486  
 Mashamba West mine: crystals to 4 cm **23**:437n; euhedral to 3 cm **22**:17–20c,p  
 Mupine mine **19**:122s  
 Shaba (formerly Katanga) **22**:17
- Zambia**  
 Broken Hill mine **11**:341n
- 
- “CUPROADAMITE”  
*See Adamite*
- 
- “CUPROARTINITE”  
*See Nakaurite*
- 
- CUPROAURIDE  
*See Auricupride*
- 
- CUPROBISMUTITE  
**United States**  
 Colorado  
 Twenty-six mine, Custer County (massive) **7**:274  
 Virginia  
 Fairfax quarry, Fairfax County (acicular; one coiled) **3**:177
- 
- “CUPROCASSITERITE”  
 Discredited as mixture containing pseudomalachite and/or mustronite **17**:383q
- United States**  
 South Dakota  
 Eta mine, Pennington County **17**:298, **17**:383q  
 Peerless mine, Pennington County **17**:383q
- 
- CUPROCOPIAPITE  
**Chile**  
 Chuquicamata **9**:330
- 
- “CUPROHYDROMAGNESITE”  
*See Nakaurite*
- 
- CUPROPAVONITE  
**United States**  
 Arizona  
 Campbell shaft, Bisbee **24**:429n

## GENERAL INDEX

### CUPRORIVAITE

#### United States

- Oregon
- Summit Rock, Douglas County **16**:143n

### CUPROSKLODOWSKITE

#### Canada

- Northwest Territories
- Port Radium **20**:(207)

#### France

- Rabéjac quarry, Hérault **23**:(433)

#### Zaire

- Mashamba West mine **20**:69
- Musonoi mine **9**:33, **9**:(114), **18**:367p, **18**:368n, **20**:278p, **25**:218n
- Shaba (formerly Katanga) **20**:278, **20**:398

### CUPROSTIBITE

#### Greenland

- Locality not specified **8**:(390)

### CURATORS AND CURATING

- Appointment and duties of **18**:389–390
- Computerized collection cataloguing **25**:82–83
- Duties **3**:244ff
- Earthquakes, protecting collections from **25**:245–247
- Exchange of specimens with dealers and collectors **3**:188, **3**:196ff, **4**:286–287
- Financial concerns of museums **4**:286–287
- Gordon, Samuel G., Academy of Natural Sciences, Philadelphia, 1930s **6**:7–10
- Guidelines for the Curation of Geological Materials* **19**:341b
- Mineral exhibits in museums, future of: editorial **23**:454; letter **24**:246
- Modern mineral collection curating (guest editorial) **22**:251–254
- Museums and the amateur mineralogist (editorial) **20**:418–419
- Philosophies of building a museum collection **2**:184–185
- Qualified curators, finding **5**:42–43
- Rare species, responsibility for preserving (editorial) **3**:2
- Research responsibilities: **22**:7–10; letter in response **22**:312
- Specimen fragmentation by dealers: editorial **17**:226; responses **18**:167–168
- Type specimens (letters and responses) **20**:301–303
- U.S. National collection (Smithsonian) outline of acquisition policy **15**:165–170

### CURETONITE

#### United States

- Nevada
- Golconda (barite prospect near), Humboldt County: **16**:46h; newly described; micro crystals **10**:219–221h,q,d,c,p

### CURIENITE

#### Gabon

- Franceville **8**:(390)
- Mounana: **18**:338p, **20**:278; powdery **6**:241

#### Iraq

- Akashat **25**:141n

#### Zaire

- Shinkolobwe mine **20**:278

### CURITE

#### Canada

- Northwest Territories
- Port Radium **20**:(207)

#### Zaire

- Shaba **20**:278
- Shinkolobwe mine **9**:34, **20**:279p,d

### CURVED, BENT, AND RING-SHAPED CRYSTALS

- Aragonite, screw-like helictites, Bisbee, AZ **12**:290–291p
- Boulangerite rings, cylinders, coils: **13**:89, **13**:91, **13**:111p; ring in calcite, Madoc, Ontario **24**:311n, **24**:312p
- Calcite, coiled/curved crystalline aggregates, Bisbee, AZ **12**:293p, **12**:298p
- Copper: elongated crystals with helical twists, Ray mine, AZ **6**:39–40p; helical wire, Ocoela mine, MI **23**:M46p; Ray mine **14**:319
- Cuprobismutite, coiled (Fairfax quarry, VA) **3**:177n
- Jamesonite, Baia Mare (formerly Felsőbánya) Romania **17**:376–377
- Millerite twisted about c-axis **15**:205n, **15**:208p
- Molybdenite tubes (Mt. St-Hilaire, Québec) **21**:323p
- Natrolite, Simmons Bay, Australia **17**:377–379
- Rings and cylinders: **1**:105–112; additional references and examples **2**:186
- Silver (twisted crystals) **10**:42

### “CYANOSITE”

*See Chalcanthite*

### CYANOTRICHITE

*See also Carbonate-Cyanotrichite*

#### Australia

- Queensland
- Mt. Oxide mine **19**:486

#### Chile

- Mina la Vieja, Copiapó district **9**:134n

#### Greece

- Kamaréza mine, Laurium **7**:123n

#### Italy

- Sardinia
- Sa Duchessa mine **15**:(372)

#### United States

- Arizona
- Grandview mine, Coconino County (excellent acicular) **2**:217–218p, **2**:221q
- Lavender pit, Bisbee district **12**:304
- Maid of Sunshine mine, Cochise County **12**:183n
- Colorado
- Italian Mountain area, Gunnison County **15**:86n
- Nevada
- Majuba Hill mine (2 mm tufts) **16**:65p, **16**:66
- New Mexico
- Kelly mine, Socorro County **20**:20
- Portales mine, Socorro County **20**:39
- Sunshine #3 and #4 mines, Socorro County **20**:37–39q
- Upper Mex-Tex mine, Socorro County **20**:37–39q

### CYLINDRITE

- Cylindrical crystals **1**:107, **1**:110

#### Bolivia

- Poopó **8**:(390)
- Santa Cruz mine, Poopó district, Oruro Dept.: cylinders to 4 cm **25**:140n; 2 cm cylinders **1**:106p, **1**:107
- Trinacria mine, Poopó district, Oruro Dept. (cylinders to 5 cm) **6**:134–135p

### CYMRITE

#### South Africa

- Cape Province
- Black Rock and Hotazel mines (crystals) **9**:151

#### Sweden

- Långban (fl.) **10**:216

### CYPRUS

- Skouriotissa mine **10**:247s

### CYRILOVITE

#### Australia

- South Australia
- Iron Monarch pit, Iron Knob: **12**:105n; after strengite **12**:106p, **22**:(387)

#### Brazil

- Minas Gerais
- Énio pegmatite, near Galiléia (crystals) **12**:72
- Sapucaia area: **4**:121; “avelinoite” **2**:(12)
- Zé Berto mine, near Linópolis **14**:236

#### Paraná

- Alto Benedito pegmatite **22**:184n

#### United States

- South Dakota
- Tip Top mine **18**:361n

### CZECHOSLOVAKIA

*Former. See also independent states: Czech Republic; Slovakia*

- Banska Hodrusa **2**:29

### CZECH REPUBLIC

*Formerly Czechoslovakia*

- Anna mine, Brezové Hory district, Příbram ore field **12**:157h, **12**:160–161m
- Bohutín district, Příbram ore field: **12**:157–165h,m,g; see also Czech Republic—25 Únor mine
- Brezové Hory district, Příbram ore field **12**:157h, **12**:160–161m, **12**:163g
- Brno **19**:12h
- Bukov, near Tišnov **9**:114s
- Chvaletice **5**:207s
- Davle, near Prague **11**:14s
- Dobrá Voda **19**:10s
- Dolní Bory, western Moravia **9**:254s, **19**:10s, **19**:122s
- Erzgebirge: **12**:113h, **17**:10m, **17**:15h; historical and geological overview **21**:565–570m,h,g,p; see also Thüringen, Germany
- Frantisek mine, Bohutín district, Příbram ore field **12**:158h
- Hořonec **22**:460s
- Horní Slavkov (near) **13**:179s
- Hurka mine, Bohutín district, Příbram ore field **12**:158h, **12**:161m
- Jáchymov (formerly Joachimstal), Erzgebirge **17**:15h, **19**:16s, **19**:256s, **22**:460–461h
- Jenikov quarry, near Tepliče **22**:47s
- Joachimstal (see Jáchymov)
- Karlovy Vary (formerly Karlsbad) **22**:459s
- Kladno **20**:299s
- Klement vein, Bohutín district, Příbram ore field **12**:158h–163g
- Krásná Hora **13**:395s
- Křepice u Vodňan (near) **22**:460s
- Kuber Schacht, Příbram **19**:335–336s
- Maržikov **19**:10s
- Medenek mine, Jáchymov **19**:122s
- Mies (now Stribo/Stribno) **4**:198h; see also Slovenia—Mežica mine
- Milešov **13**:395s
- Paskapole **22**:459s
- Pokojuvice **19**:10s
- Příbram ore field **3**:148s, **12**:157–165h,m,g, **15**:144s, **18**:159s, **18**:406–407s, **19**:16s, **19**:116s, **19**:118s, **19**:122s, **22**:225s, **22**:459s, **22**:460–462h, **25**:386s
- Predborice **13**:394s
- Prokop mine, Brezové Hory district, Příbram ore field **12**:157h, **12**:161m
- Řečice **19**:12s



## GENERAL INDEX

---

Rimbaba (Segen Gottes) mine, Bohutín district, Příbram ore field **12:158h**, **12:161m**  
Rožná **19:10s**  
Rudolf mine, Příbram ore field (see 25 Únor mine)  
St. Joachimsthal (see Jáchymov)  
Schlaggenwald (see Slavkov)  
Segen Gottes mine, Příbram (see Rimbaba mine)  
Slavkov (formerly Schlaggenwald) **19:122s**, **19:199s**

Šobotín **19:12s**  
Špania Dolina (formerly Herrengrund) **19:13s**, **22:460s**  
Stefánik mine, Příbram ore field (see 25 Únor mine)  
Stepánka mine, Bohutín district, Příbram ore field **12:158h**  
Stribo, Stribno are misspellings of Stříbro **4:198h**  
Třebesko deposit, Příbram district **22:209–212h,g**

25 Únor mine (incorporating the Stefánik, Rudolf, and Bohutín mines), Bohutín district, Příbram ore field **12:157–158h**, **12:160–161m**  
Vrěžná, western Moravia **11:112s**  
Vinařice **19:336s**  
Vintírov **5:236s**  
Vojtech mine, Brezové Hory district, Příbram ore field **12:157–158h**  
Zbraslav, near Prague **11:14s**

## GENERAL INDEX

### DACIARDITE

#### Italy

Tuscany  
San Piero in Campo area, Elba **16:358**

#### United States

California  
Opal Hill quarry, Riverside County (2 mm crystals) **21:481n**  
Wyoming  
Yellowstone National Park (micro) **12:33–34**

### DADSONITE

Four world occurrences listed **24:43**

#### Canada

Northwest Territories  
Giant property, Yellowknife **16:46h**  
Ontario  
Madoc (near) **13:97–98q, 16:46h**

#### France

Saint-Pons (near), Haute-Provence (acicular in calcite) **24:43**

#### Germany

Wolfsberg, Harz Mountains: **9:(113), 16:46h**;  
micro rings **1:109**

#### United States

Nevada  
Red Bird mercury mine, Pershing County **16:46h**

### DAMARAITE

#### Namibia

Kombat mine **22:423**

### DANA CLASSIFICATION SYSTEM

Becoming obsolete **2:133–134**  
What is a Dana collector? (Q&A column) **2:181**

### DANALITE

Helvite group (genthelvite, helvite, danalite) **8:92–93c,q**

#### Australia

Western Australia  
Coolgardie **9:(113)**

#### England

Cornwall  
Botallack district (masses) **24:279**

#### United States

New Hampshire  
Government pit, Carroll County **14:(47)**  
Iron mine, Barlett **8:93**  
New Mexico  
Iron Mountain, Sierra County (id as helvite) **20:60**

### DANBURITE

#### Madagascar

Anjanabonoina: **17:(145), 20:196p**; 4 cm yellow **15:118**

#### Mexico

Baja California  
Chuqui pegmatite **17:(275)**  
La Huerta (near) **17:275n**  
San Luis Potosí  
Charcas: clear to 10 cm **24:51n, 24:392n**;  
with bakerite coating **3:125, 3:132p**

#### Nepal

Hyakule pegmatite (niobian, to 2.5 cm) **16:417**

#### Norway

Tangen quarry, Kragerø **17:275n**

#### Russia (formerly USSR)

Dal'negorsk: **24:226n**; 6 cm prismatic **22:225n**

#### Sri Lanka

Locality not specified **18:368n**

#### Switzerland

Stegia, Val Medal **15:114p**

### United States

California  
Jensen quarry, Riverside County (to 6 cm) **15:281–282p, 15:288n**  
J-27 pegmatite, Riverside County **17:(275)**  
Montana  
Butte (near) (pegmatite occurrence) **16:497**

### DANIELSITE

#### Australia

Western Australia  
Coppin Pool **23:(432)**

### DANNEMORITE

#### Australia

New South Wales  
Broken Hill **7:29n**

#### Sweden

Brunsjogruvan **9:(113)**

### DAQUINGSHANITE-(Ce)

#### Canada

Québec  
Poudrette quarry: **21:486n**; UK#44 id as, crystals to 2 mm **21:304–305p**

### DARAPSKITE

#### Chile

Chuquicamata **9:324**

### DATOLITE

#### Austria

Kratzenberg, Salzburg (11 cm crystals) **17:106n**  
Lienzinger, Salzburg (crystal groups) **17:106n**  
Obersulzbachtal, Salzburg (large crystals) **17:106n**

#### Canada

Ontario  
Faraday (Madawaska) mine **13:74n**  
Smith-Lacey mine **13:74n**  
Taggart mine **13:74n**  
Québec  
Drummondville area **19:(334)**  
Mt. St-Hilaire: **13:(244)**; prismatic to 20 mm **21:305**  
Poudrette quarry **18:(363)**

#### England

Somerset  
Merehead quarry, near Cranmore (crystals to 8 mm) **8:302–303p**

#### Italy

Lombardy  
Baveno area (crystals to 8 cm) **14:163d**

#### Mexico

San Luis Potosí  
Charcas (3 cm crystals) **22:216**

#### Norway

Hardangerfjord area **20:397**  
Kongsberg **17:(35)**

#### Russia (formerly USSR)

Cheguyva (Czegujewa) **18:(432)**  
Dal'negorsk: **24:226n**; crystals to 10 cm **23:437n**;  
gemmy bluish to 5 cm **25:58**  
Locality not specified (over 8 cm) **20:398n**

#### South Africa

Cape Province  
N'Chwaning mine (pink) **18:(368)**  
Wessels mine: microcrystalline botryoidal **24:365**; micro crystals **9:148**; to 2.5 cm **22:284p**

#### Transvaal

Palabora mine (globules) **22:258**

#### Spain

Rigoitia, quarry near, Vizcaya (complex crystals to 4 cm) **23:272**

### United States

#### Michigan

Keweenaw Peninsula (several localities listed): massive, micro crystals **14:224**;  
porcelaneous, various colors, crystals over 8 cm **23:M61–63p, 23:M65d**  
Locality not specified (fl. nodules) **15:177**  
Osceola #10 shaft, Houghton County (copper in micro crystal) **9:314**

#### New Jersey

Chimney Rock quarry, Somerset County **9:28**  
Fort Lee, Bergen County **15:114p**  
Millington quarry ("pineapple" clusters to 15 cm) **24:383n**  
Paterson area, Passaic County (crystals to 3.8 cm) **9:166**  
Route 80 roadcut, Passaic County **1:174**

#### New York

Richville (northeast of), St. Lawrence County **22:223–224**

#### Pennsylvania

Dillsburg, York County **25:114**  
French Creek mine (euhedral, "melted" to 1 mm) **25:114**

#### Virginia

Luck Co. quarry, Loudoun County (6 cm crystals) **15:169p**

### DAUBREEITE

#### United States

Nevada  
Outlaw mine, Nye County (bismoclite-daubreeite, tiny crystals) **22:178–179p**

### DAVIDITE-(Ce), -(La)

#### Australia

Queensland  
Mt. Isa-Cloncurry district **19:474**

#### Italy

Cervandonne, Lombardy (crystals to 7 mm) **21:489n**

### DAVYNE

#### Egypt

Zebirget (St. John's Island) (uncertain id; prismatic to several cm) **7:313q**

### DAWSONITE

#### Canada

Ontario  
Princess sodalite mine: **13:226–227p**; fibrous **13:85n**

#### Québec

Francon quarry **9:105p, 24:377p, 24:378**  
Mt. St-Hilaire: **23:429n**; prismatic to 35 mm **21:305**

Poudrette quarry (micro) **25:210**

#### Italy

Tuscany  
Fossa degli Angeli quarry **18:285p**

#### United States

Colorado, Wyoming, Utah  
Green River formation **8:368–371**

### DEALERS AND DEALING

Advertising hints (pamphlet) **17:2**  
American dealers, prominent 19th century **19:371–372**  
American mineral dealing, history of, call for contributions to book **18:116**  
Appraisal of specimens, experiment in **8:38–40, 8:47–48**  
Australian classic collection dumped for lack of buyer **23:501**  
Bolivia, illegal transport of minerals outlawed (1981) **12:393**  
Connoisseurship in minerals (editorial) **21:7–12**  
Contract specimen recovery arrangements **7:98–99, 18:362**

## GENERAL INDEX

- Crystal healing movement, effect of on business **19:209**
- Cureton Mineral Company purchased by Excalibur Mineral Company **25:2**
- Dissatisfied customer claims theft of specimen sent for examination **17:345**
- Diversity in mineral collecting: guest editorial **22:410–411**; responses **23:286–288**
- Does it [mineral collecting] pay? (1901 article) **12:174–175**
- Dohrmann, A., collection sale, 1886 **23:7–13**
- Early U.S. dealers **25:225**
- Editorial “plugs,” *Mineralogical Record* guidelines for **12:2–3**, **20:323–324**
- Ethics **6:223**
- Excalibur Mineral Company purchases Cureton Mineral Company **25:2**
- Exchange of specimens with museums **3:188**, **3:196ff**
- Field-collecting dealers, survey of **14:33–34**
- Footo, A. E., excerpts from 1892 catalog **4:252–253ff**
- Gem dealer robbed and murdered **17:146**
- Glossary of collectors’ and dealers’ terms **5:52–55**
- Group advertisements in *Mineralogical Record* **17:2**
- Health information hotline for overseas travel **22:3**
- Investment-collecting guidelines, adapted from *Coin World* **22:3**
- Lane, Fred “Boodle,” and “Boodle Barrels” **23:440–441**
- Lighting to enhance apparent colors of minerals **10:32**, **11:28–29**
- Locality information, Minas Gerais, Brazil **1:73**, **1:86**, **2:10–12**
- Lower quality specimens not selling **15:177**
- Mineral auctions at Sotheby’s, London **2:5–8**
- Mineral fraud (guest editorial) **12:194**
- Mineral Museums Advisory Council statement on loss of rare specimens **21:495**
- Mineral names, unethical use of (editorial) **14:138**
- Non-dealers selling at shows (letter) **8:130–131**
- Panasqueira, Portugal, black market for specimens **2:78**
- Perry, Nathan H., correspondence with prominent 1880’s collectors **18:119–120**
- Pre-show selling: **4:93–94**, **4:152**; editorial **3:146–147**; letters **3:282**
- Prices offered or paid for collections, 18th and 19th centuries **25:H47**
- Rare species dealing, dangers to science from: editorial **17:226**; responses **18:167–168**, **18:258**
- Rare species, responsibility for verifying presence of on specimens: **11:66**; responses **11:274**
- “Rock shops” equated with “rock junk”: editorial **2:242–243**; responses **3:50**, **3:94–95**
- Role in enabling museums to acquire rare material **15:169–170**
- Role of dealers in supporting the hobby (editorial) **2:242–243**
- Russia, collecting/museum trip to **24:481–488**
- Schortmann, Raymond and Alvin **2:101**, **9:107–109**
- Scorodite, ludlamite, vivianite “from Mexico” of suspicious origin **2:38**, **2:98**
- Searched by army patrol in Guerrero, Mexico **14:57–58**
- Specimen lighting in sales booths, Tucson Show rules **14:61**
- Specimen market trends, review: 1983 **14:354**; 1984–85 **16:441**
- Type specimens: editorial **19:226–227**; letters and responses **20:301–303**
- Video mail-order mineral catalog introduced **18:115–116**
- Volume of sales from new (1988) finds **19:74**
- 
- ### DEERITE
- 
- #### United States
- California  
Laytonville district, Mendocino County **8:433**
- 
- ### DEFERNITE
- 
- #### Namibia
- Kombat mine **22:423h,c**
- 
- ### DELAFOSSITE
- 
- #### Australia
- Queensland  
Mt. Isa mine **19:(480)**
- #### United States
- Arizona  
Bisbee **2:4q**  
Cole shaft, Bisbee district (1 cm crystals) **12:304**  
Czar shaft, Bisbee district (cuprite after) **12:301p**  
Hoatson shaft, Bisbee district **12:304**, **12:305d**  
Ray mine, Pinal County **14:(320)**
- New Mexico  
Kelly mine, Socorro County **20:20**
- Wyoming  
Kirwin Mineralized Area, Park County (black powdery) **2:4q**
- 
- ### DELAWARE
- 
- Bibliography of locality literature **18:215**  
Bibliography of mineralogy literature **10:16**
- “DELESSITE”
- See Chamosite*
- 
- ### DELHAYELITE
- 
- #### Canada
- Québec  
Mt. St-Hilaire **10:108**
- 
- ### DEMESMAEKERITE
- 
- #### Zaire
- Kolwezi mine **8:(390)**  
Musonoi mine **9:33**, **20:279p,d**
- 
- ### DENMARK
- 
- Greenland listed separately*
- Dalsnípa (Dalsnypen), Sandoy (Sandö) Island, Færoe Islands **12:12m**, **12:13**, **12:14p**
- Dalur, Sandoy (Sandö) Island, Færoe Islands **12:12m**, **12:13**
- Færoe Islands (20 zeolite localities) **12:5–26h,m,p,g**, **22:48s**
- Fordhbiarnípa, Suderoy (Suderö) Island, Færoe Islands **12:12m**, **12:13**
- Glyvursnes, Streymoy (Strömö) Island, Færoe Islands **12:12m**, **12:13**
- Haldarsvík, Streymoy (Strömö) Island, Færoe Islands **12:12m**
- Hjardardhalur, Eysturoy (Österö) Island, Færoe Islands **12:12m**
- Hósvík, Streymoy (Strömö) Island, Færoe Islands **12:12m**
- Kvívík, Streymoy (Strömö) Island, Færoe Islands **12:12m**
- Lambareidhi, Eysturoy (Österö) Island, Færoe Islands **12:12m**
- Lítlafelli, Eysturoy (Österö) Island, Færoe Islands **12:12m**
- Ljósá, Eysturoy (Österö) Island, Færoe Islands **12:11**, **12:12m**
- Nesvík, Streymoy (Strömö) Island, Færoe Islands **12:12m**
- Nordhdepil, Bordhoy (Bordö) Island, Færoe Islands **12:11**, **12:12m**
- Nordhoyri, Bordhoy (Bordö) Island, Færoe Islands **12:11**, **12:12m**
- Sátan, Streymoy (Strömö) Island, Færoe Islands **12:12m**
- Selatradh, Eysturoy (Österö) Island, Færoe Islands **12:12m**
- Skálafjörður, Eysturoy (Österö) Island, Færoe Islands **12:12m**
- Skutín, Nólsoy (Naalsö, Nolsö) Island, Færoe Islands **12:12m**, **12:13**
- Vágar (Vaagö) Island, Færoe Islands **12:12m**, **12:13**
- Vidhoy (Viderö) Island, Færoe Islands **12:11**, **12:12m**
- 
- ### DENNINGITE
- 
- #### Mexico
- Sonora  
Moctezuma mine (tabular to 1 cm) **1:42**
- 
- ### DEPARTMENTS AND COLUMNS
- 
- Abstracts **9:39–40**, **9:115–116**, **9:253–254**, **10:51–52**, **10:247–248**, **10:301–302**, **11:111–112**
- Annual list of donors and volunteers **9:130**, **10:130–131**, **11:131**, **11:134**, **12:131–132**, **13:185**, **14:177–178**, **15:183–185**, **16:315–318**, **17:215–217**, **18:247–249**, **19:218**, **19:221–223**, **20:241–243**, **21:265–267**, **22:220**
- Book Reviews (initially The Record Bookshelf) **1:32**, **1:81–82**, **1:129–130**, **1:150**, **2:35–36**, **2:87–88**, **2:139–140**, **2:148**, **2:170**, **2:228–229**, **2:246–280**, **3:40–42**, **3:124**, **3:133**, **3:276–278**, **4:44–55**, **4:81–82**, **4:144–147**, **4:240–242**, **5:90–95**, **5:193–194**, **6:41–45**, **6:150–151**, **6:210–211**, **6:313**, **7:87**, **7:315–318**, **8:66–67**, **8:415–417**, **9:123**, **9:256–257**, **9:383–384**, **10:314**, **11:49–51**, **12:120**, **13:175**, **14:59–60**, **14:253**, **15:47–48**, **15:311**, **15:373–374**, **16:160**, **17:143**, **19:125–126**, **19:205–206**, **19:339–340**, **19:401–402**, **19:489–490**, **20:149–151**, **21:496**, **22:59–60**, **22:153**, **22:309**, **23:410–413**, **23:503–504**, **24:398–399**, **25:147**, **25:305–306**
- Collector, The (Richard A. Bideaux) **2:185–186**, **2:201–202**, **2:249–251**, **3:12–13**, **3:62ff**, **3:129ff**, **3:148–150ff**, **3:198–201**, **4:4–5ff**, **4:79–80**, **4:140–142**, **4:192–194**, **4:252–253ff**, **5:106–108**
- Collector’s Library **8:5–13**, **9:13–28**, **10:169–171**
- Editorial (Editorial Page): John S. White, Jr. **1:5**, **1:37**, **1:85**, **1:133ff**, **2:3**, **2:51**, **2:99**, **2:147**, **2:194–195**, **2:242–243**, **3:2**, **3:50**, **3:98–99**, **3:146–147**, **3:194–195**, **3:242–243**, **4:2**, **4:50–51**, **4:98**, **4:154**, **4:202**, **4:250–251**, **5:2–3**, **5:52–55**, **5:152**, **5:154**; **5:202–203**, **5:252**, **5:279**, **6:102–103**; Wendell E. Wilson **7:50–51**, **7:98–99**, **7:202**, **7:266–267**, **12:2–3**, **14:2–3**, **17:290–291**, **18:114–115**, **21:2–4**, **23:206**, **25:162**; see also Departments and Columns—Notes from the Editor
- Friends of Mineralogy (Marcelle H. Weber): **1:36ff**, **1:84ff**, **1:132ff**, **2:14ff**, **2:91–95**, **2:163–164**, **2:222ff**, **2:276ff**, **4:52ff**, **4:139ff**, **4:156–157**, **4:206ff**, **4:254ff**, **5:6–9**, **5:56–58**, **5:104–105**, **5:155–156**, **5:204**, **5:255–256**, **6:5**, **6:55–56**, **6:107–108**, **6:167–168**, **6:223**, **6:270–272**, **7:4–5**, **7:52–53**, **7:101–104**, **7:269–271**, **8:3**, **8:131**, **9:267**, **10:249**, **10:368**, **11:57–58**, **11:119**, **20:487**, **21:171**, **22:57–58**, **22:143–149**, **22:313–314**, **23:79–80**, **23:417**; founded **1:4**; how to form a chapter **10:59**; locality preservation committee **3:4–5ff**; region map and directors **3:52–53ff**; structure and goals **2:91–93ff**
- Guest Editorials **5:2–3**, **5:102**, **6:2**, **6:52**, **6:162–164**, **6:220–221**, **6:268–269**, **7:2–3**, **7:154–156**, **8:70–71**, **8:262–263**, **8:426–427**, **9:2**, **10:66**, **11:66**, **11:274**, **12:194**, **13:130**, **14:138**, **17:226**, **19:226–227**, **20:98–99**, **20:178–180**, **20:418–419**, **22:330**, **22:410–411**, **23:2–3**, **23:454**, **25:82–83**, **25:322**

- Historical Notes on Mineralogy (Lawrence H. Conklin) **18**:369–372, **18**:423–427, **19**:77–79  
 Historical Record, The (Ron Bentley) **8**:407–410, **8**:428–430, **9**:49–50, **9**:107–109, **9**:243–246, **9**:290–291, **9**:359–362, **10**:37–39, **10**:183–184, **10**:243–245, **10**:365–367, **11**:319–320, **12**:113–115, **12**:173–175, **14**:133–135  
 I.P.I.O.J. (Interesting Papers in Other Journals) (Pete J. Dunn) **9**:40, **9**:116, **9**:254, **10**:53  
 Letter from Europe: Bob Sullivan **8**:403–404, **9**:56–58, **9**:132–134, **9**:316–318, **9**:367–369, **10**:121–124, **10**:179–180, **11**:27–30, **11**:113–116, **11**:315–318, **12**:187–189, **13**:51–52; Michael P. Cooper **23**:267–272, **23**:494–498, **24**:231–235, **25**:43–50, **25**:137–141  
 Letters (To the Editor) **1**:38ff, **1**:86ff, **1**:134, **2**:26, **2**:50ff, **2**:98, **2**:146ff, **2**:200, **2**:273–275, **3**:44–45ff, **3**:94–96, **3**:137–144, **3**:188–192, **3**:237–240, **3**:282–286, **4**:46–48, **4**:91–96, **4**:150–152, **4**:199–200, **4**:243–247, **5**:44–48, **5**:96–97, **5**:145–147, **5**:195–198, **5**:246–248, **5**:292–296, **6**:46–48, **6**:93–96, **6**:152–156, **6**:212–216, **6**:260–266, **6**:314–320, **7**:41–48, **7**:88–96, **7**:145–151, **7**:193, **7**:195, **7**:319–322, **8**:50–51, **8**:130–131, **8**:329–330, **8**:419–420, **9**:61–62, **9**:117–119, **10**:55–56, **10**:251–252, **11**:53–56, **11**:387–388, **12**:135–136, **12**:393–395, **13**:127, **13**:179–180, **14**:61–62, **14**:205–206, **15**:49, **15**:249–251, **16**:159–160, **16**:319–320, **16**:501, **17**:145–146, **17**:218, **17**:275–276, **17**:345–347, **18**:167–172, **18**:250–253, **18**:375–376, **19**:127–129, **19**:341–342, **20**:160–161, **20**:301–303, **20**:403–404, **20**:488, **21**:263–264, **21**:499–501, **22**:155–156, **22**:223–224, **22**:478–480, **23**:282–288, **23**:443–446, **24**:55–56, **24**:245–247, **24**:319–323, **24**:400–401, **25**:67–68, **25**:77, **25**:143–145, **25**:301–302, **25**:385–386  
 Microminerals: Violet Anderson **8**:431–433, **9**:32–34, **9**:103–106, **9**:247–249, **9**:314–315, **10**:41–43, **10**:103–108, **10**:173–176, **10**:297–300, **12**:43–44; Wm. G. Henderson **10**:239–241, **11**:43–46, **12**:105–111, **12**:381–385, **13**:44–46, **13**:107–112, **13**:241–247, **14**:47–51, **14**:363–368, **15**:109–115, **16**:147–153, **17**:135–140, **17**:269–274, **18**:141–146, **18**:435–438, **19**:199–203, **19**:325–328, **20**:152–158, **22**:61–164, **22**:471–476, **23**:88–90, **23**:420–421, **24**:311–314, **25**:208–210, **25**:303–304  
 Mineral Notes **1**:30, **1**:80, **1**:125, **1**:136, **2**:29, **2**:83, **2**:129, **2**:235, **3**:6, **3**:187, **5**:40–41, **5**:74–75  
 Mineral Stories (Lawrence H. Conklin) **22**:151–152, **22**:379, **22**:465–468, **23**:439–441, **23**:501–502, **25**:307–309  
 Mineralogical Notes **8**:284–285, **8**:391–396, **8**:519–520, **9**:41, **9**:111–112, **9**:251–253, **9**:295–296, **9**:385–393, **10**:45–49, **10**:97–101, **11**:33–39, **11**:97–104  
 Museum Notes (column, Stanley J. Dyl II) **21**:169, **21**:493–495, **21**:577–578  
 Museum Record, The (Paul E. Desautels) **1**:23ff, **1**:65ff, **1**:101ff, **1**:152ff, **2**:15ff, **2**:89–90, **2**:133–134, **2**:184–185, **2**:239–240, **2**:281–282, **3**:17ff, **3**:67–68, **3**:114ff, **3**:196ff, **3**:244ff, **4**:6ff, **4**:99–100, **4**:230–231, **4**:286–287, **5**:42–43, **5**:171–172, **6**:146–148  
 News from the AMNH (American Museum of Natural History) **11**:40, **11**:313–314  
 News from the ROM (Royal Ontario Museum; Robert I. Gait) **8**:391, **9**:255, **9**:377  
 Notes for Collectors **9**:231–233, **11**:109–110  
 Notes from Europe: Thomas Moore **20**:299–300, **20**:483–486, **21**:173–175, **21**:249–251, **22**:221ff, **22**:457–462; Wendell E. Wilson **23**:84–85  
 Notes from Germany (Thomas P. Moore) **17**:389–392, **18**:159–163, **18**:355–357, **19**:121–124, **19**:271–272, **20**:145–147  
 Notes from Italy (Gianni Porcellini) **15**:41, **15**:371–372, **17**:205–206  
 Notes from Mexico: Bill Panczner **14**:57–58, **14**:169–171, **14**:385–386, **15**:239–240; J. Carl Faddis **18**:155–156  
 Notes from the Editor (Wendell E. Wilson) **8**:2, **8**:71, **8**:264–265, **8**:339, **8**:427, **9**:3, **9**:66–67, **9**:130–131, **9**:210–211, **9**:274, **9**:338, **10**:2, **10**:67, **10**:130–132, **10**:194–195, **10**:258, **10**:322, **11**:2, **11**:67, **11**:130–131, **11**:202, **11**:275, **12**:3, **12**:130–131, **12**:275, **13**:2, **13**:130, **13**:258, **13**:322, **14**:3–4, **14**:139, **14**:210, **14**:266, **14**:354ff, **15**:2–3, **15**:66, **15**:130ff, **15**:194–196, **15**:258, **16**:104–105, **16**:168–169, **16**:328–329, **16**:440–442, **17**:2, **17**:98, **17**:227–228, **17**:291–292, **17**:354, **18**:2–4, **18**:115–117, **18**:178–179, **18**:258, **18**:322, **18**:386, **19**:74–75, **19**:138ff, **19**:290–291, **20**:2–3, **20**:100, **20**:180, **20**:258, **20**:322–324, **20**:420, **21**:4–6, **21**:122–124, **21**:186, **21**:394–395, **21**:510, **22**:2–4, **22**:170, **22**:250ff, **22**:331–332, **23**:3–4, **23**:207–208, **23**:455–457, **24**:2, **24**:170, **24**:258, **24**:338, **24**:418, **25**:2, **25**:83, **25**:162, **25**:242, **25**:323–325; with guest editor W. D. Birch **19**:354  
 People, Happenings, and So Forth **17**:293–295, **18**:157  
 Photographic Record, The (column, Wendell E. Wilson) **4**:36–37, **4**:89–90, **4**:158ff, **4**:204–205, **5**:31–33, **5**:138–140, **5**:167–170, **5**:270–272, **6**:302–309, **7**:6–15, **7**:106–113, **7**:164–168, **7**:224–231, **8**:304–307, **9**:91–94, **9**:292–294, **10**:91–96  
 Profile of a Collector **1**:11ff, **1**:54ff  
 Q&A Column **1**:74, **1**:124, **1**:147, **2**:17ff, **2**:52ff, **2**:100, **2**:181, **3**:16, **3**:130–131, **4**:42–43, **4**:137–138, **4**:197–198, **5**:4–5, **5**:222–223, **6**:62, **7**:141  
 Rare Minerals Report (William Pinch) **8**:390–391, **8**:517, **9**:113–114  
 Record Bookshelf, The (see Book Reviews)  
 Specimen Requests column (initiated) **1**:126  
 To the Editor (see Letters)  
 Tsumeb Notes **8**:110, **9**:43–45, **10**:113–118  
 What's New in Minerals? **1**:29ff, **1**:66, **1**:74, **1**:97ff, **1**:151ff, **2**:37–38, **2**:53–55, **2**:128ff, **2**:187–188, **2**:230ff, **2**:247ff, **3**:14–15ff, **3**:65–66, **3**:125ff, **3**:180–182, **3**:228–230, **3**:273–275, **4**:54–55ff, **4**:232–234, **4**:275–276ff, **5**:76–78, **5**:233–236, **6**:38–40, **6**:141–143, **6**:250–252, **7**:55–59, **7**:129–137, **7**:185–189, **7**:309, **8**:58–62, **8**:282–284, **8**:389–390, **9**:36–38, **9**:192–195, **9**:298–299, **10**:31–35, **10**:187–190, (Colorado) **10**:329–332, **11**:59–61, **11**:121–125, **11**:189–193, **11**:321–323, **11**:381–384, **12**:45–47, **12**:117–118, **12**:177–186, **12**:387–390, **13**:39–42, **13**:181–184, **13**:315, **13**:384–385, **14**:53–56, **14**:173–176, **14**:387–390, **15**:43–46, **15**:117–120, **15**:177–182, **15**:313, **16**:303–313, **16**:497–500, **17**:147–152, **17**:207–212, **17**:339–342, **17**:404–406, **17**:429–434, (gold) **18**:89–96, **18**:147–151, **18**:241–246, **18**:299–301, **18**:359–368, **18**:429–434, **19**:113–120, **19**:209–216, **19**:273–275, **19**:331–338, **20**:69–75, **20**:234–237, **20**:387–399, **20**:481, **21**:96–98, **21**:253–260, **21**:481–492, **22**:53–55, **22**:213–220, **22**:381–393, **23**:273–281, **23**:423–438, **23**:499–500, **24**:45–53, **24**:191–230ff, **24**:381–395, **25**:57–63, **25**:211–222, **25**:377–382  
 Yedlin on Micromounting (Neal Yedlin) **1**:10ff, **1**:44ff, **1**:91ff, **1**:138ff, **2**:27–29, **2**:85–87, **2**:101–102, **2**:182–183, **2**:210–211, **2**:259–260, **3**:36–37, **3**:85–87, **3**:126–128, **3**:184–186, **3**:202–204ff, **3**:246ff, **4**:84–86, **4**:101–102ff, **4**:183–185, **4**:235–237, **4**:262ff, **5**:87–89, **5**:141–143, **5**:238–240, **6**:35–37, **6**:138–140, **6**:310–312, **7**:36–40, **7**:84–86, **7**:142–144, **7**:190–192, **7**:323–326, **8**:63–65

## DERBYLITE

## Italy

- Tuscany  
 Buca della Vena mine (trillings) **17**:265p,d  
 "DERNITE"

See *Carbonate-fluorapatite*

## DERRIKSITE

## Zaire

- Kolwezi mine **8**:(390)  
 Musonoi mine **9**:33–34, **20**:279–280d

## DESAUTELSITE

- Four world localities (announced; minute tabular)  
**10**:247p,h,q,c

## DESCLOIZITE

See also *Arsendescloizite*

## Australia

- South Australia  
 Beltana mine (coating, arsenian) **22**:452

## Austria

- Bleiberg district (four localities) **17**:363

## Brazil

- Minas Gerais  
 Januaria-Itacarambi area (3 cm crystal) **6**:283, **6**:291p

## France

- Les Farges mine, Corrèze **13**:(267)

## Mexico

- Chihuahua  
 Ahumada mine **13**:319n  
 Los Lamentos **11**:284

## Namibia

- Berg Aukas **22**:217n  
 Grootfontein (arborescent) **10**:42n  
 Tsumeb: **18**:334p, **20**:(397); dendritic to 1 cm, some cuprian **8**:T23, **8**:T62p

## Scotland

- Strathclyde/Dumfries and Galloway  
 Leadhills-Wanlockhead district **12**:(250)

## Slovenia (formerly Yugoslavia)

- Mežica mine (micro transparent) **22**:101ff

## United States

## Arizona

- Apache mine, Gila County **2**:255  
 Apache mine, Pinal County **15**:113p  
 C & B mine, Gila County: crystals to 5 mm  
**6**:109d,c; micro crystals **11**:214  
 Dallas shaft, Bisbee district **12**:304n  
 Dripping Springs Mountains, Gila County  
**21**:481n  
 Glove mine (zoned with wulfenite) **14**:305  
 Grey Horse mine, Pinal County **11**:232–233n  
 Hardshell mine, Santa Cruz County **11**:265n  
 Higgins mine, Bisbee district **12**:304  
 Mammoth mine, Pinal County: micro crystals **11**:168; vanadinite altering to **11**:264n  
 Old Yuma mine, Pima County (6 mm)  
**14**:106n  
 Rowley mine, Maricopa County (minute needles) **5**:24  
 Sacramento shaft, Bisbee district **12**:304n  
 79 mine (minute crystals) **3**:253–254  
 Shattuck shaft, Bisbee district **12**:304n  
 Tonopah-Belmont mine, Maricopa County  
**19**:143

## Nevada

- Chalk Mountain mine, Churchill County (micro crystals) **13**:221

## New Mexico

- Petroglyph mine, Sierra County **20**:59  
 Red Lakes prospect ("Turquoise mine"), Eddy County **20**:60n

## GENERAL INDEX

- Pennsylvania  
 Chester County mine **20:379**  
 Phoenixville **20:379**  
 Southwest Chester County mine **20:379**  
 Wheatley mine **20:379**
- Zambia**  
 Broken Hill mine (crystals) **11:347c**
- 
- DEVILLINE
- England**  
 Cornwall  
 Botallack district **24:279**
- Germany**  
 Rheinland-Pfalz  
 Ems district **15:342**
- Greece**  
 Kamaréza mine, Laurium (crusts) **25:279**
- Namibia**  
 Tsumeb: **9:44**; felted **8:T23n**
- New Zealand**  
 Tui mine (crystals) **6:30n**
- United States**  
 Arizona  
 Bisbee district **12:(304)**  
 Grandview mine, Coconino County (crusts) **2:218, 2:221q**  
 Mammoth mine, Pinal County (scaly) **11:168**  
 Nevada  
 Majuba Hill mine (minute sprays) **24:174**  
 New Jersey  
 Sterling mine (powdery coatings) **25:100**  
 Pennsylvania  
 Ecton mine, Montgomery County **3:185**
- Wales**  
 Dyfed  
 Nantycagel (Eaglebrook) mine (2 mm blades) **13:168n, 13:170q**
- 
- DEWINDTITE
- Zaire**  
 Kasolo **20:280**
- 
- DIABOLEITE
- Australia**  
 Western Australia  
 Ashburton Downs (massive; minute prismatic) **24:212p**
- Greece**  
 Laurium area: **17:184p, 17:186**; micro **7:121**
- United States**  
 Arizona  
 Mammoth mine, Pinal County (crystals to 2 cm) **11:163p, 11:173d**  
 Rowley mine, Maricopa County: **17:405n**; masses **5:18**
- 
- DIADOCHITE
- Canada**  
 Yukon  
 Rapid Creek (earthy to waxy masses) **23:Y37**
- England**  
 Cornwall  
 Gravel Hill quarry, Perranporth **19:(337)**  
 Somerset  
 Higher Pitts mine, near Wells **8:301n**  
 Merehead quarry, near Cranmore **8:301–302h,p**
- United States**  
 Indiana  
 Bethel Church fossil dig, Pike County **15:353–354p**  
 Maine  
 Newry area (botryoidal) **6:202**  
 South Dakota  
 Tip Top mine **17:240**

- DIAMOND
- Mineralogy of the Diamond, The* **9:383b**  
 On postage stamps **22:71**
- Australia**  
 Western Australia  
 Argyle and Ellendale mines **21:561p, 21:563–564d,c,p**
- Brazil**  
 Bahia  
 Chapada Diamantina **20:333**  
 Sincorá **20:328**  
 Locality not specified **20:325–336c,d,p**  
 Mato Grosso **20:334–335**  
 Alta Paraguai **20:335**  
 Arenópolis **20:335**  
 Diamantina **20:334**  
 Nortelândia **20:335**  
 Poxoreú **20:335**  
 Minas Gerais **20:331–334, 20:335**  
 Diamantina **20:331–333**  
 Grão Mogol **20:332–333p**  
 Triângulo Mineiro **20:333–334**  
 Pará **20:335**  
 Paraná **20:335**  
 Piauí  
 Gilbués **20:335**  
 Roraima **20:335**  
 São Paulo (state) **20:335**
- Canada**  
 Northwest Territories  
 Pointe de Misère (north of) (diamond rush) **23:428**
- China**  
 Changma, Shandong province **18:326p**  
 Hunan (northwestern; locality not specified) (1.25 cm macle) **24:221p, 24:223**
- Russia (formerly USSR)**  
 Adolfskoi River, Ural Mountains (in matrix) **9:367**  
 Mir pipe: **20:(145)**; in matrix **9:367s, 17:(341)**  
 Yakutsk **18:(244)**
- Sierra Leone**  
 Locality not specified (57 ct nearly flawless octahedron) **7:309n**
- South Africa**  
 Cape Province  
 Kimberly: Cullinan diamond **18:193h**; macle twin **14:364–365p**  
 Locality not specified **19:115n**  
 Transvaal  
 Koster (near) (1970 diamond rush) **2:2**  
 Transvaal/Orange Free State  
 Witwatersrand gold field (green, naturally irradiated) **23:224**
- United States**  
 Arkansas  
 Crater of Diamonds State Park (crystals to several carats) **21:550–555p,c**  
 Colorado  
 Sloan diatremes, Larimer County (micro crystals, some twinned) **13:207p,c**
- Zaire**  
 Bakwanga district (cubes to 2 cm) **23:437n**
- 
- DIAPHORITE
- Canada**  
 British Columbia  
 Van Silver deposit, Howe Sound (tentative id) **18:362n**
- Czech Republic (formerly Czechoslovakia)**  
 Brezové Hory district, Příbram ore field **12:(163), 12:164d**
- Spain**  
 Hiendelaencina district, Guadalajara (crystals to 8 mm) **23:245**

- DIASPORE
- Norway**  
 Oslofjord/Langesundsfjord region: lilac to 5 mm **22:51p, 22:52n**; violet specks **12:228**
- South Africa**  
 Cape Province  
 Wessels mine (bladed masses to 4 cm) **22:284**
- Turkey**  
 Kütahya **20:299**  
 Mugla-Aydin region **18:161, 18:368n, 20:398**  
 Selcuk **20:389p**
- United States**  
 Arizona  
 Bisbee district **12:304n**  
 New Cornelia mine, Pima County **14:(295)**  
 California  
 Champion mine, Mono County (blades to 3 cm) **8:480**  
 Colorado  
 National Belle mine, Ouray County **17:(233)**  
 San Juan Mountains **10:358n**  
 Massachusetts  
 Chester emery mines (crystals to 5 cm) **9:238p, 9:239**
- 
- DICKINSONITE
- In pegmatite environments **4:110–111**  
 Numerous world localities **4:111, 4:118**
- United States**  
 Maine  
 Havey quarry, Androscoggin County **16:(375)**
- 
- DICKITE
- Brazil**  
 Minas Gerais  
 Córrego do Urucum pegmatite **17:309n**
- France**  
 Mas D'Alary, Herault (micro tabular crystals) **25:210p**
- United States**  
 Arizona  
 Lavender pit, Bisbee district **12:304–305**  
 Colorado  
 National Belle mine, Ouray County **17:233h,d, 17:234p**  
 San Juan Mountains **10:358n**  
 New Mexico  
 Hansonburg district, Socorro County **20:39–40**
- Wales**  
 Anglesey  
 Pant-y-gaseg **19:337n, 20:395**
- 
- DIETRICHITE
- Australia**  
 Queensland  
 Mt. Isa mine (post-mining) **19:480**
- 
- DIGENITE
- Chalcoite apparently alters to, in oxygen environment: **3:15**; challenged **3:133**
- Australia**  
 Queensland  
 Mt. Isa mine **19:(480)**  
 South Australia  
 Cattlegrid pit **15:110p**  
 Moonta mines **19:(412)**  
 Victoria  
 Flinders area (tentative id) **19:456**
- Canada**  
 Québec  
 Mt. St-Hilaire (grains) **23:429n**
- Chile**  
 Chuquicamata **9:(323)**
- England**  
 Cornwall  
 Botallack district **24:280**

- France**  
Les Farges mine, Corrèze **13**:(267)
- Greece**  
Laurium area **7**:117n
- Italy**  
Tuscany  
Carrara region (masses, with bornite) **18**:268–269
- Namibia**  
Tsumeb (crystals) **8**:T23n
- South Africa**  
Transvaal  
Messina district (exsolution lamellae) **22**:197
- Switzerland**  
Cavradi-Schlucht, Graubünden (djurleite-dige-nite) **18**:432n
- United States**  
Arizona  
Bisbee district **12**:(305)  
Campbell shaft, Bisbee **24**:429n  
Magma mine **14**:(82)  
California  
Benitoite Gem mine, San Benito County **8**:448–450n  
Hale Creek mine, Trinity County **18**:(347)  
Colorado  
San Juan Mountains **10**:358n  
Michigan  
Cliff and Mendota mines, Keweenaw County **23**:M63  
White Pine mine, Ontonagon County **23**:M63  
Montana  
Butte (2.5 cm crystal) **2**:109  
Nevada  
Majuba Hill mine (massive) **16**:66n  
New Jersey  
Sterling mine (massive) **25**:100
- Zaire**  
Shinkolobwe mine **20**:(276)
- 
- DIOPSIDE**
- Australia**  
Western Australia  
Argyle and Ellendale mines **21**:562n
- Austria**  
Knappenwand, Salzburg **17**:17n  
Totenkopf, Salzburg **17**:(107)
- Brazil**  
Minas Gerais  
Córrego Setuba (greyish to 30 cm; green with gemmy spots to 20 cm) **5**:231–232p,q  
São Paulo  
Jacupiranga mine **15**:268
- Canada**  
Ontario  
Birds Creek **13**:78c  
Dog Lake **13**:78c,p  
Québec  
Cantley area **19**:334n  
Cawood (near) (clear to 3 cm) **24**:388n  
Gatineau Park (Chaput-Payne prospect), Gatineau County (crystals to 20 cm) **11**:80, **11**:81q  
Jeffrey mine: **9**:249, **20**:393n; slender curved crystals **10**:75, **10**:79p,q  
Mt. St-Hilaire (various colors, habits to 5 mm) **21**:305  
Orford mine (various habits; prismatic to 14 cm) **25**:336–339d,c,q,p  
Wilberforce (north of) (with fl. coating, poss. stevensite) **17**:339n  
Wilson's Corners **19**:334n  
Yates mine, Pontiac County (prismatic to 15 cm) **12**:360–361p
- China**  
Kunlun Mountains, Xinjiang Autonomous Region: **20**:392p, **20**:399; gemmy green **21**:489n
- England**  
Devon  
Meldon quarry (2 mm crystals) **21**:492n  
Merseyside  
Thurstaston (limonite deposited selectively on terminal faces) **21**:492n
- Greenland**  
Gardiner complex **16**:492
- Italy**  
Lachea, Cyclopean Islands **17**:205n  
Lombardy  
Rocca Castellacio, Val Malenco (white) **10**:87p  
Piemonte  
Ara **15**:144c  
Condove, Val di Susa **10**:86n  
Laietto **23**:434n  
Val d'Aosta  
St. Vincent (acicular) **10**:87
- Norway**  
Mo I Rana: **20**:397; white **22**:391n  
Sørøya Island (euhedral to 3.5 cm) **22**:48, **22**:225
- Pakistan**  
Kafu (uncertain locality) (to 5 cm) **22**:216
- South Africa**  
Cape Province  
Wessels mine (5 mm pink tabular) **22**:284
- Sweden**  
Garpenberg (in massive galena) **22**:48
- United States**  
Arizona  
Sacramento Hill area, Bisbee district **12**:305n  
California  
Darwin district, Inyo County **15**:14n  
Jensen quarry, Riverside County **15**:288n  
Kalkar quarry, Santa Cruz County (grains) **17**:324  
Colorado  
Calumet iron mine, Chaffee County (“uralite”; actinolite after) **10**:332  
Italian Mountain area, Gunnison County **15**:81–82p,d  
Sloan diatremes, Larimer County (chromian) **13**:207  
Maryland  
Rockville Crushed Stone Co. quarry, Montgomery County (green chomian and white) **17**:(127)  
Maine  
Sanford deposit, York County (euhedral to 5 mm) **24**:362  
Montana  
Bald Mountain, Jefferson County (crystals to 5 cm) **7**:19–20c, **7**:21–23p,d  
Nevada  
Julie claim, Mineral County (massive, “salite”) **16**:76  
New Jersey  
Franklin (manganooan) **19**:274n  
New Mexico  
Magdalena district, Socorro County **20**:20  
Nitt mine, Socorro County **20**:20  
New York  
Amity area, Orange County (8 cm crystal) **9**:88p  
Lead Hill mine, Essex County (1 mm crystals) **14**:27n  
Mitchell farm, St. Lawrence County **7**:269  
Richville (near), St. Lawrence County (gemmy green to 10 cm; some tremolite after) **21**:536–540p,c,d  
Talcville, St. Lawrence County **18**:361n  
Pennsylvania  
French Creek mine (“apatite” from marble idas) **25**:114  
Washington  
Denny Mountain, King County (2 cm crystals) **8**:15
- DIOPTASE**
- Africa**  
Numerous localities discussed **11**:116
- Chile**  
Inca de Oro, Copiapó district (minute crystals) **10**:123
- Congo (Peoples Republic)**  
‘Mbumba, Pool province: **22**:478n; elongated to 3.4 cm **22**:216n  
Renneville (1–2 cm crystals) **10**:180, **16**:303p  
Sanda mine (prismatic) **24**:394n
- Kazakhstan (formerly USSR)**  
Altyn Tyube **23**:495n
- Namibia**  
Kaokoveld **19**:116n  
Tsumeb mine: **19**:117n, **19**:(337); crystals to 5 cm, some turquoise-colored **8**:T23, **8**:T49, **8**:T71p; 3.5 cm crystals **7**:133n
- United States**  
Arizona  
Magma mine **14**:(82), **20**:69n, **20**:387n  
Mammoth mine, Pinal County (needles) **11**:168  
New Water Mountains, Yuma County **14**:(119)  
Pinal County (5 mm crystals) **23**:275p, **23**:276  
Ray mine (crystals to 12 mm) **14**:320  
Shattuck shaft, Bisbee district **12**:305  
Tiger, Pinal County (black crystals) **14**:337q  
California  
Blue Bell mine, San Bernardino County: **8**:494p, **8**:495; acicular **8**:432n  
Michigan  
Algolah mine, Ontonagon County (micro) **23**:M63
- Zaire**  
Mashamba West mine (prismatic to 3 mm) **22**:20
- 
- DISPLAY TECHNIQUES**
- Aesthetic arrangement of specimens **9**:210  
Bases for specimens: bent from glass rod **2**:250; modeling clay **25**:242; 10 types **8**:400–402, **9**:117  
Earthquakes, protecting collections from **25**:245–247  
Lighting to enhance apparent colors of minerals **10**:32, **11**:28–29  
Outdoor display cases, Royal Ontario Museum, Toronto **3**:127  
Sorbonne exhibits **13**:34  
Thumbnail specimens **3**:62, **3**:92–93
- 
- DISTRICT OF COLUMBIA**
- Bibliography of mineralogy literature **10**:16  
*Minerals of the Washington, D.C. Area* **13**:175b
- 
- DITTMARITE**
- Australia**  
Victoria  
Skipton Cave, near Ballarat **19**:361h
- “DJALMAITE”  
*See Microlite*
- 
- DJURLEITE**
- Chalcocite apparently alters to, in oxygen environment: **3**:15; challenged **3**:133
- Canada**  
Québec  
Mt. St-Hilaire (grains) **23**:429n
- Chile**  
Chuquicamata **9**:(323)
- England**  
Cornwall  
Botallack district (some after chalcocite) **24**:280
- Greece**  
Laurium area **7**:117n

## GENERAL INDEX

- Namibia**  
Tsumeb (massive) **8:T23n, 8:T83p**
- Russia (formerly USSR)**  
Kirghese Steppes **9:367**
- Switzerland**  
Cavradi-Schlucht, Graubünden (djurleite-dige-nite) **18:432n**
- United States**
- Arizona  
Bisbee district **12:305n**  
Campbell shaft and Higgins mine, Bisbee **24:429**  
Mammoth mine, Pinal County (replacing galena) **11:164**
- California  
Benitoite Gem mine, San Benito County (crystals to 8 mm; "chalcocite" id as) **8:448–450p,d,c**
- Michigan  
White Pine mine, Ontonagon County (grains) **23:M64n**
- New Jersey  
Sterling mine (rims on bornite) **25:100**
- 
- DOLOMITE**
- Australia**
- New South Wales  
Kintore opencut, Broken Hill **19:430**
- Queensland  
Mt. Isa mine: **19:480**; talc after **19:484**
- South Australia  
Beltana mine **22:452**  
Walleroo mines **19:414**
- Tasmania  
Magnet mine **19:(383)**
- Victoria  
Berry's Beach, Phillip Island **19:456**  
Flinders area **19:456, 19:459p**  
Kennon Head, Phillip Island **19:456–457**  
Phillip Island **19:456–457**  
Woods Point **18:29n**
- Western Australia  
132 North deposit, Widgiemooltha district (nickellean; micro crystals) **25:287**
- Austria**  
Bleiberg district **17:363**  
Hohentauern mine, Styria (15 cm orange) **17:110n**
- Bolivia**  
Potosí  
El Dragón mine (euhedral to 6 mm) **21:138n**
- Brazil**  
Bahia  
Brumado: **20:394**; blocky tan with (0001) faces **23:432n**; rhombic to 10 cm **9:202p**  
Pomba pit: **20:(394)**; 6 cm twins **22:387n**
- Minas Gerais  
Morro Velho gold mine (simple rhombs to 8 cm) **4:227**  
Pedreira Atalaia **22:387n**
- São Paulo  
Jacupiranga mine **15:265, 15:268**
- Bulgaria**  
Madan orefield **22:442–443**
- Canada**
- British Columbia  
Mt. Brussilhof mine: large white twinned **24:385n**; twins to 4 cm **25:214**
- Northwest Territories  
Nanisivik mine: pink rhombs to 10 cm, gemmy centers **21:485n**; pyrite after **24:388n**; white rhombs to 10 cm **21:522, 21:523p**  
Port Radium **20:(207)**
- Ontario  
Long Lake mine **13:83**
- Québec  
Francon quarry (after unknown mineral) **17:339**  
Mt. St-Hilaire: green **19:325–326n**; prisms, rhombs to 12 mm **21:305**
- Yukon  
Rapid Creek (discoidal to 5 mm) **23:Y19q**
- England**  
Cornwall  
Botallack district ("pearl spar") **24:280**
- Derby  
Derbyshire orefield **14:20n**
- Durham  
Boltsburn mine (id as ankerite) **13:15–16**
- Greenland**  
Sarfartôq complex (elongated to 3 cm) **24:G49**
- Italy**  
Tuscany  
Buca della Vena mine **17:265**  
Carrara region (some greenish) **18:284–285c**  
Colonnata quarry (curved) **18:285p**  
Niccioleta mine **10:284p, 10:286**
- Mexico**  
Chihuahua  
Los Lamentos (gangue) **11:284**
- Morocco**  
Touissit mine: crystals to 2.5 cm **11:61n**; pink, with rosasite, malachite **17:341n**
- Namibia**  
Tsumeb: cobaltian, manganoan, plumbian, zincian **8:T24**; crusts, cobaltian **10:113, 10:114p**; zincian, resembles minrecordite **13:131, 13:134–135q**
- New Zealand**  
Tui mine (white saddles to 1 cm; some brown ferroan) **6:27**
- Spain**  
Arlós-Villabona district (saddle-shaped) **23:73**  
Eugui: **19:122n**; rhombs to 7 cm **25:222**; various habits, simple rhombs to 20 cm, some thin "angel wing" **22:139–140c,p**
- La Collada **23:73n**  
Moscona mine **23:75p**  
Navarra **20:73n**  
Troya mine, Guipuzcoa **23:272n**
- Switzerland**  
Lengenbach quarry: flattened twin **14:364p,c,d**; micro tabular **8:280p**
- United States**
- Arizona  
Bisbee district **12:305**  
Campbell shaft, Bisbee district (tiny crystals) **12:305**  
New Cornelia mine, Pima County (micro) **14:295**  
Southwest mine, Bisbee district (on tips of large aragonite crystals) **12:305**  
Vekol mine, Pinal County (ferroan) **14:91p,q**
- Arkansas  
Rush Creek district (saddle-shaped; smithsonite, limonite after) **24:296p, 24:298**
- Colorado  
Black Cloud mine, Leadville district **7:289, 7:293p**  
Cresson mine, Teller County (quartz after) **16:236**  
Leadville district, Lake County **16:192n**  
San Juan Mountains **10:358n**
- Indiana  
Bedford (near), Monroe County (4 mm saddles) **22:351–353p**  
Hoosier Stone and Concrete Corp. quarry, Washington County (4 mm pink) **14:9**
- Michigan  
Keweenaw Peninsula (unverified) **23:M64n**
- Montana  
Yellowstone mine, Madison County (5 cm grey rhombs) **23:424**
- New Jersey  
Buckwheat open pit, Franklin (euhedral micro rhombs) **14:187p**
- New Mexico  
Cottonwood Draw, Chaves County (after aragonite sixlings to 5 cm) **22:384n**  
Magdalena district, Socorro County **20:20**
- New York  
Sterling mine, Jefferson County (crystals zoned with epitaxial siderite) **15:204q, 15:209p**
- Ohio  
Duff quarry, Logan County **18:392p**
- Pennsylvania  
Phoenixville (ferroan) **20:379**
- Pennsylvania/Maryland  
Line pit, State Line district (colloform bands) **12:155**
- Tennessee  
Elmwood mine, Smith County (curved) **9:216, 9:217–218p**  
Jefferson City (near), Jefferson County (curved pink) **3:90–91p**
- Wyoming  
Lovell (near), Big Horn County (after aragonite sixlings to 4 cm) **21:485n**
- Zaire**  
Kamoto mine (cobaltian, on copper crystals) **23:496–497p**  
Mashamba West mine (some pink cobaltian; resembles cobaltian calcite) **22:20**
- 
- DOMEYKITE**
- Locality not specified **20:341q**
- Canada**  
Ontario  
Silver Islet mine **17:(59)**
- United States**
- Arizona  
Bisbee district (unconfirmed) **12:(315)**
- Colorado  
Cashin mine, Montrose County (with copper) **18:(360)**
- Michigan  
Mohawk mine, Keweenaw County (massive; comprises most lapidary "mohawkite") **23:M64**
- 
- DONNAYITE-(Y)**
- Canada**  
Québec  
Mt. St-Hilaire: **10:104, 13:244, 13:245p**; "pagoda" crystals to 3 cm **21:305–306p**  
Poudrette quarry **19:334n**
- 
- DONPEACORITE**
- United States**  
New York  
Balmat, St. Lawrence County (massive) **25:377n**
- 
- DORFMANITE**
- Canada**  
Québec  
Mt. St-Hilaire (powdery) **21:306**
- 
- DOWNEYITE**
- United States**  
Pennsylvania  
Three localities (announced; "selenolite" prob. equals; crystals to 2 cm) **9:253h,q**

**GENERAL INDEX**

**DOYLEITE**

**Canada**

Québec  
Mt. St-Hilaire (UK#45; minute square tabular) **21:306**

**DRAVITE**

*See also Tourmaline Group*  
Tourmaline group nomenclature **3:16, 3:131**

**Afghanistan**

Pech, Laghman province **22:386n**

**Australia**

Western Australia  
Yinnietharra: **8:109–119q,p**; appear non-hemimorphic **2:144n**; crystals to 15 cm **8:101p, 8:104–106q, 8:108p**; 15 cm crystals **1:101**

**Austria**

Prevali, Carinthia (appear non-hemimorphic) **2:144n**

**Brazil**

Bahia  
Brumado district: crystals to 1 cm **9:203p, 9:204**; uvite-dravite, acicular **23:432n**  
Serra das Eguas **2:13n**

Minas Gerais  
Énio pegmatite, near Galiléia (ferriiferous) **12:72**

Rio Grande do Norte  
Locality not specified (schorl-dravite, doubly terminated to 25 cm) **24:385n**  
Serra Branca (schorl-dravite, prismatic to 10 cm) **22:387n**

**Canada**

Ontario  
Enterprise (near) **13:80p**  
Tait farm (uvite-dravite) **13:73q, 13:79p, 13:80**  
Québec  
Mt. St-Hilaire (crude prisms to 10 cm) **21:306**  
Poudrette quarry **19:334n**

**China**

Korla, Xinjiang Autonomous Region **20:394**

**Myanmar (formerly Burma)**

Mogok (near) ("chromian uvite" id as vanadian dravite) **25:301**

**Nepal**

Gujarkot: **25:378p, 25:380n**; floaters to 5 cm **24:230n**; nearly pure end-member, 3 cm crystals **25:218n**  
Taplejung (north of) (6–12 mm euhedral) **16:417n**

**Norway**

Snarum, Buskerud **8:105q, 8:106n**

**Russia (formerly USSR)**

Mikhaylovskoye, Chita Oblast mine (green prismatic to 45 mm) **25:379p, 25:381n**

**Slovenia (formerly Yugoslavia)**

Dravograd (formerly Dobrava) **16:336h**

**United States**

California  
Himalaya dike system, San Diego County **8:468–471q,p**  
Jensen quarry, Riverside County **15:288n**  
Kalkar quarry, Santa Cruz County (green) **17:325**

Idaho  
Sawtooth batholith (fibrous) **24:199n**

Maine  
Black Mountain, Rumford **16:384n**  
Dunton mine, Newry (parallel growth) **16:385p**

New York  
Beaver Creek area, St. Lawrence County (uvite-dravite) **17:(342)**

DeKalb, St. Lawrence County ("sunburst") **8:105q, 8:106p**  
Selleck Rd. (south of), St. Lawrence County (uvite-dravite, euhedral) **23:425n**

**DRESSERITE**

**Canada**

Québec  
Francon quarry: **9:104–105p, 15:111p, 17:(339)**; announced **2:83h,q**

**DUFRENITE**

In pegmatite environments **4:114**

**Australia**

New South Wales  
Kintore opencut, Broken Hill **19:430, 19:433q**

**Brazil**

Minas Gerais  
Córrego Frio mine (coatings) **14:233**

**United States**

Alabama  
Wolfden Mountain, southwest of Rock Run **9:388h,p**  
Alabama/Georgia  
Indian Mountain **20:358, 20:359p**  
New Hampshire  
Palermo mine **4:114**  
South Dakota  
Tip Top mine **17:240, 17:251**

**DUFRENOYSITE**

**Mexico**

Chihuahua  
Batopilas district **17:(79)**

**DUFTITE**

**Australia**

New South Wales  
Kintore opencut, Broken Hill **19:430p**  
Northern Territory  
Mt. Bonnie mine **9:(114), 19:444–445p, 19:450q**  
Western Australia  
Ashburton Downs (micro crystals) **24:212**

**England**

Cornwall  
Penberthy Croft **24:392n**

**Namibia**

Chouti mine **23:435n**  
Tsumeb: **9:44n**; crusts, micro crystals **8:T24, 8:T82p**; oriented in calcite **18:407p**

**United States**

Colorado  
Tuckers tunnel prospect, La Plata County ("duftite-β") **11:37–38q**  
Montana  
Black Pine mine, Granite County (coatings, microcrystals) **23:482**

**DUGGANITE**

**United States**

Arizona  
Emerald mine, Tombstone district **11:254**  
Old Guard mine, near Tombstone (announced) **10:51h,q**  
Tombstone district, Cochise County **20:(387)**

**DUHAMELITE**

**United States**

Arizona  
Tombstone district, Cochise County **23:(423)**

**Zaire**

Mashamba West mine (stout acicular to 2 mm) **22:20**

**DUMONTITE**

**Zaire**

Shaba **9:33**  
Shinkolobwe mine **20:280**

**DUNDASITE**

**Australia**

Tasmania  
Adelaide mine: **3:112–113p**; crusts **8:25, 19:385h**  
Comet mine (blue) **19:385**  
Dundas area mines **12:108–109, 19:385**  
Five mines **19:385**

**England**

Cornwall  
Trevinnick mine (white feathery) **21:492n**  
Derby  
Mill Close mine, Wensley **14:20–21**

**Germany**

Rheinland-Pfalz  
Ems district **15:342n**

**Italy**

Sardinia  
Punta sa Torre mine **15:372n**  
Seddas Moddizia mine **15:372n**

**Morocco**

Touissit mine **15:177n**

**Namibia**

Tsumeb (fibrous) **8:T24, 8:T84p**

**New Zealand**

Tui mine (sky-blue radial crusts) **6:30**

**United States**

New Mexico  
South Juanita mine, Socorro County (white acicular) **5:235p**  
Tip Top, Kelly, and Juanita mines, Socorro County **20:20**

**DUNHAMITE**

*Insufficiently described mineral*

**United States**

New Mexico  
Hilltop mine, Dona Ana County **20:(11)**

**DURANGITE**

**Canada**

Nova Scotia  
Lake Ramsay **17:342h**

**Mexico**

Durango  
Barranca mine **17:342h**

**United States**

New Mexico  
Boiler Peak **20:404**  
Turkey Run **20:404**  
Utah  
Thomas Range (1 cm crystals) **17:342p,c**

**DURANUSITE**

**Canada**

British Columbia  
Mt. Washington mine, Vancouver Island (fibers, wires) **15:89**

**France**

Duranus, Alpes Maritimes **8:(390), 15:89**

**DYPINGITE**

**Canada**

Yukon  
Rapid Creek/Big Fish River area (felted coatings) **23:Y37**

**Norway**

Dypingal deposit, Snarum (newly described; micro globular, fl.) **2:235q,h**

**United States**

New Jersey  
Sterling Hill mine (minute spheres) **10:165p,q**



## GENERAL INDEX

---

### DYSCRASITE

---

#### Australia

- New South Wales
- Broken Hill **19:424n**
- Queensland
- Mt. Isa mine **19:480**

#### Canada

- British Columbia
- Highland Bell mine, Beaverdell **20:(445)**

#### Chile

- Chañarcillo **10:201**

#### Czech Republic (formerly Czechoslovakia)

- Kuber Schacht (silver with and/or after) **19:335–336**
- Přibram **19:116n, 19:122n, 22:225n, 22:461h**

#### France

- Les Farges mine, Corrèze **13:(267)**

#### Germany

- Baden-Württemberg
- Wenzel, Schwarzwald **20:147**
- Niedersachsen
- St. Andreasberg **17:(9)**

#### Obersachsen

- Annaberg **17:(16)**

#### Norway

- Kongsberg **17:(35)**

#### Spain

- Hiendelaencina district, Guadalajara (crystals) **23:245**

#### DZHALINDITE

---

#### Russia (formerly USSR)

- Dzhalindin deposit, Siberia **4:26–27h**

## EAKERITE

Pronunciation **1:134****United States**

North Carolina

Foote mine: formerly UK#3 **4:138n**; newly described **1:92–96h,p,q,d,c**;

## "EARDLEYITE"

*See Takovite*

## ECDEMITE

**Greece**Laurium (ecdemite-heliophyllite) **17:185n****United States**

Arizona

Mammoth mine, Pinal County (id as vanadinite and/or mimetite) **11:177**Rowley mine, Maricopa County (id as mimetite) **5:24**

## ECKERMANNITE

**Sweden**Norra Karr, Ostergotsland **9:(113)**

## ECLARITE

**Austria**Grossvenediger area **17:(107)**

## EDENHARTERITE

**Switzerland**Lengenbach quarry **25:(140)**

## EDENITE

Vs. tremolite **2:56****Canada**

Ontario

Wilberforce area (silicic) **13:73q, 13:74–75p**

Québec

Mt. St-Hilaire: **2:269, 2:270–271q**; fluoredenite, micro crystals **2:142****United States**

Arizona

Lowell shaft, Bisbee district **12:305**

Colorado

Italian Mountain area, Gunnison County **15:86n**

New York

Amity area, Orange County (crystals to 4 cm) **9:87p,h**

## EDGARBAILEYITE

**United States**

California

Clear Creek and Socrates mines, San Benito County (newly described) **21:215–220h,q,p,c**

Texas

Terlingua: **21:228**; newly described **21:215–220h,q,p,c**

## EDINGTONITE

**Brazil**

São Paulo

Jacupiranga mine: **15:268p**; micro clear **13:44**; minute pseudo-cubic **23:433n****Canada**

British Columbia

Ice River complex **12:224q,p,d,c**Ice River, near Golden **14:50–51p, 20:391**

Québec

Mt. St-Hilaire: **18:364n**; minute hollow prismatic **21:306****England**Shropshire **20:395**

## EDITORIALS

*See Departments and Columns for pages or Author/Title Index for full citations*

## EDOYLERITE

**United States**

California

Clear Creek Claim, San Benito County (newly described; micro acicular) **24:471–475h,q,c,p**

## EDUCATIONAL EXHIBITS AND PROGRAMS

Clarify intended audience for educational exhibits (editorial) **4:50–51**Clearing center for availability of educational specimens **1:132**Educational exhibits at shows (editorial) **2:99**Educational theme not essential for a successful mineral exhibit **3:17**"Four of a kind" identification exhibit **2:124–25**  
Guidelines for, by Friends of Mineralogy **4:206ff**  
Gunnell, Mitchell, crystal sets **6:226–229**Interpretive exhibits encouraged for mineral museums (editorial) **5:171–172**Junior groups in mineral clubs, example of successful program **5:148**Membership loss due to weak educational programs: editorial **1:133ff**; response **2:146**Philosophies of museum mineral exhibits, changing **1:152ff, 22:72–73, 22:311, 23:206, 23:454, 24:246**Schools, specimens provided to (Osage Hills Gem and Mineral Society, Bartlesville, OK) **3:128**Traveling school case by Royal Ontario Museum **9:255**Tucson show contest: 1971 guidelines **1:132ff**; 1971 results **2:93**

## EGLESTONITE

**United States**

Nevada

Humboldt County **9:113n**

Texas

Terlingua district: micro crystals **8:20–21d,p**; 1 mm crystals **21:228–229d**

## EGYPT

Red Sea **11:317s**

St. John's Island (see Zebirget Island)

Zebirget (Zeberged, Zabarjad, etc.), Red Sea **7:310–314h,p,m,g, 8:329h, 18:161s**

## EHRLEITE

**United States**

South Dakota

Tip Top mine **17:241, 17:298**

## EITELITE

**United States**

Utah

Green River formation **8:368–371**

## EKANITE

**Canada**

Québec

Mt. St-Hilaire: **10:104, 10:105p, 13:(244)**; id as steacyite **21:339**; UK#4 id as **2:85–86p,c**

## ELATERITE

*Organic***England**

Derby

Windy Knoll quarry, Castleton (rubbery masses) **14:23**

## ELBAITE

*See also Tourmaline Group*Displays at 1984 Tucson Show **15:179–181p****Afghanistan**Kuhnar (to 8 cm) **24:384n**Laghman province (3 localities) (various colors, habits) **9:306–308p**Paprok, Kunar province (pink; watermelon; to 20 cm) **25:57****Brazil**Minas Gerais (blue, green crystals) **16:344–345p**Barra de Salinas, Coronel Murta: **19:335n, 20:(394)**; bi-colored scepters **24:49n**; green-black to 6 cm **21:488n**; multi-colored scepters to 10 cm **21:256**Córrego do Urcum pegmatite **17:309**Cruzeiro mine, Santa Maria do Suaçui: **18:365n, 19:335n, 22:387n**; green, black tips **3:65p**; some "rubellite" to 14 cm **22:214p, 22:216**Genipapo mine, Araçuaí district **17:149p, 17:151n, 20:(394)**Jaguaraçu pegmatite (sky-blue massive) **25:168**Jonas mine, near Conselheiro Pena: **9:317, 9:367–368, 10:33–34p, 10:121, 19:214n**; "rubellite" **11:317**; "rubellite," gemmy crystals to 1 m **9:298–299p**; "rubellite," 109 cm **16:344–345p**Jove Lauriano mine ("indicolite," intergrown with rhodochrosite) **14:235n**Laranjeiras mine (fragments; some chatoyant) **11:379**Limoeiro mine, Virgem da Lapa (5 cm green) **13:23p**Marilac (uncertain locality) (red, green to 8 cm) **12:389–390p**Morro Redondo, Coronel Murta: **20:(394)**; pinkish brown to 15 cm **23:85**Pederneira mine, Santa Maria do Suaçui: bicolored **24:49n**; blue, red tips **22:387n**; "indicolite," 26 cm terminated **25:50n**Resplendor: **20:394**; green, fibrous terminations **24:49n**Santa Rosa mine: **20:237**; gemmy red, green **12:189**; green, subparallel group **15:179p**Urubu pegmatite, Araçuaí area (green, red; some in lepidolite) **12:75–77p**Virgem da Lapa pegmatites (8 cm blue) **13:24–27p**Xanda mine, Virgem da Lapa (7.5 cm green group) **13:20p, 13:23p****Paraíba**Batalha mine, near São José da Batalha: cuprian outer layer **23:432**; gemmy cuprian, bright blue **22:217q, 22:219p**Campina Grande (near) (brilliant colors) **21:488****Czech Republic (formerly Czechoslovakia)**Řečice **19:(12)****Italy**

Tuscany

San Piero in Campo area, Elba **16:330–332p,d****Namibia**Otjua mine: **24:51–52n**; deep red, 20 cm, green **23:277**; red, green **25:60**Usakos (near) (15 cm trigonal green) **22:391n****Nepal**Chokte (prob. source) ("indicolite") **16:417**Hyakule mine (some yellow Mn-rich) **16:415–417p,q****Nigeria**Jos region (1 cm pink/green crystal) **21:490n**Jos River, near Delimi **18:(368)****Pakistan**Gilgit Division **20:146**Stak Nala: **15:177**; color zoned, with albite "jackets" **16:404–405p****Tajikistan (formerly USSR)**Pamir Mountains ("rubellite") **24:389n**

**United States**

Arizona  
 Galiuro Mts, Graham County (in Japan-twinned quartz) **19**:(331)

California  
 Emeraldite mine, San Diego County (sky blue) **8**:508  
 Esmeralda mine, San Diego County (dark blue) **8**:515  
 Himalaya dike system, San Diego County: **8**:514p; multi-colored **8**:462–463p, **8**:468–473q,p  
 Himalaya mine, San Diego County: **10**:31–32n, **18**:(360), **19**:331n; multi-colored **16**:420–423p; 23 cm doubly terminated **25**:381–382p  
 Jensen quarry, Riverside County (multi-colored) **15**:283p, **15**:286  
 Little Three pegmatites, San Diego County: schorl-elbaite **20**:112–118p,q,c; various colors **8**:515  
 Pala Chief mine, San Diego County (“rubellite” to 18 cm) **8**:510–512  
 San Diego County: “bent” crystal **16**:342p; “rubellite” in lepidolite **16**:341p  
 Stewart mine, San Diego County (“rubellite” to 25 cm) **8**:508, **8**:510p  
 Tourmaline King mine, San Diego County (“Steamboat” specimen, etc.) **8**:508–510  
 Tourmaline Queen mine, San Diego County: multi-colored **8**:508–510p; pink, blue tips **3**:65

Connecticut  
 Gillette quarry, Middlesex County (to 30 cm; multicolored, some chatoyant) **23**:25, **23**:26–27p

Maine  
 BB #7 quarry, Oxford County **16**:375  
 Bennett quarry: **25**:377, **25**:378p; various colors **25**:183  
 Black Mountain, Oxford County (“rubellite” in lepidolite) **16**:378  
 Dunton mine: account of re-discovery **6**:14–22, **16**:378–382p; green, “watermelon” to 27 cm **6**:22–25p,c,d  
 Emmons quarry, Oxford County (to 10 cm) **25**:377n  
 Fisher quarry, Sagadahoc County **16**:378  
 Georgetown, Sagadahoc County (4-colored) **16**:378–379p  
 Havey quarry, Androscoggin County **16**:375, **16**:380p  
 Keith quarry, Androscoggin County **16**:374–375, **16**:380p  
 Lepidolite after **16**:385  
 Locality not specified **16**:365–382  
 Martin prospect, Oxford County (gemmy “indicolite”) **24**:382  
 Mills quarry, Oxford County **16**:374n  
 Mt. Apatite quarries, Androscoggin County **16**:374–375, **16**:377p  
 Mt. Marie, Oxford County **16**:374  
 Mt. Mica: **16**:366–373p,d, **16**:376–377p; blue, green, to 3 cm **23**:424; 25 x 25 cm, lepidolite after, cookeite molds after **16**:385  
 Mt. Rubellite, Oxford County **16**:373–374, **16**:376p  
 Nevel gem pit (“watermelon” to 34 cm) **4**:54–55  
 Porcupine Hill, Sagadahoc County **16**:378  
 Pulsifer quarry, Androscoggin County: **16**:374–375; fluorapatite after **8**:76n; various colors, incl. “salmon-brown” **8**:74–76p  
 Standish, Cumberland County **16**:378  
 Wade quarry (west of), Androscoggin County (5 cm multicolored) **24**:382

New Mexico  
 Harding mine **20**:64n

South Dakota  
 Tip Top mine **17**:(239)

**Zimbabwe**  
 St. Anne’s mine **19**:122n, **20**:(147)

“ELECTRUM”  
*Alloy of gold and silver*

**Canada**  
 British Columbia  
 Engineer mine, near Atlin **24**:385n

**Namibia**  
 Tsumeb **13**:127

**United States**  
 Colorado  
 Silverton district, San Juan County **10**:358n

“ELEONORITE”  
*See Beraunite*

ELLESTADITE  
*Series fluorellestadite-hydroxyllellstadite*

**United States**  
 California  
 Jensen quarry, Riverside County (grains, pods) **15**:288n

ELLISITE  
**United States**  
 Nevada  
 Carlin mine, Eureka County: **16**:46h; announced **11**:111h,q

ELPASOLITE  
**United States**  
 Virginia  
 Morefield mine, Amelia County **23**:428n

ELPIDITE  
**Canada**  
 Québec  
 Mt. St-Hilaire: **10**:104, **13**:241p; after serandite, to 13 cm **21**:306–307p,d; labunsovite epitaxial on **10**:97p  
 Poudrette quarry: **18**:(363); needles to 20 cm, prismatic to 10 cm **21**:486; oriented on labunsovite **25**:209p, **25**:210

**Greenland**  
 Narssársuk pegmatite: after eudialyte **24**:G41; crystals to 10 cm **24**:G44; fibrous **5**:121

**United States**  
 Colorado, Wyoming, Utah  
 Green River formation **8**:368–371

EL SALVADOR  
 Izalco volcano **11**:112s, **18**:339s

ELYITE  
**United States**  
 Nevada  
 Caroline Tunnel, White Pine County **16**:46h

“EMBOLITE”  
*Chlorian bromargyrite or bromian chlorargyrite*

**Australia**  
 New South Wales  
 Broken Hill **7**:29q, **12**:110n, **19**:429–430p  
 Tasmania  
 Magnet mine **19**:(383)

**Chile**  
 Chañarcillo **10**:202–203n

**United States**  
 Arizona  
 Campbell shaft, Bisbee district (cubes) **12**:305  
 Mammoth mine, Pinal County (micro crystals) **11**:173  
 California  
 Blue Bell mine, San Bernardino County **8**:(432)

Colorado  
 Chrysolite mine, Leadville district **16**:196n  
 Evening Star/Morning Star mines, Leadville district **16**:196n  
 Leadville district, Lake County **16**:196

EMBREYITE  
**Russia (formerly USSR)**  
 Berezov, Siberia (newly described; orange crusts) **5**:41h,q

EMELEUSITE  
**Greenland**  
 Igdlutalik island, Ilímaussaq complex (equant; laths in trillings) **24**:G27–28h,c,d

“EMERALD”  
*See Beryl*

“EMERY”  
*Mixture of magnetite, corundum, and ilmenite*

**United States**  
 Massachusetts  
 Chester emery mines **9**:239

EMMONSITE  
 Six world localities **3**:82

**Mexico**  
 Sonora  
 Moctezuma mine: crusts, acicular **1**:41; micro vermiform **3**:82–84p

**United States**  
 Nevada  
 Goldfield, Esmeralda County: micro crystals **3**:82–83q; some id as sonoraite **6**:37

EMPLECTITE  
**United States**  
 Arizona  
 Campbell shaft, Bisbee **24**:429n  
 Colorado  
 Alice Glory Hole, Clear Creek County (tentative id) **18**:(186)

EMPRESSITE  
**Canada**  
 British Columbia  
 Grotto group, southwest of Hazelton (massive) **2**:206–207

**United States**  
 Arizona  
 Contention mine, Tombstone district **11**:253

ENARGITE  
**Chile**  
 Chuquicamata **9**:323

**France**  
 Les Farges mine, Corrèze **13**:(267)

**Italy**  
 Tuscany  
 Calagio quarries **18**:270c, **18**:271–272p,d

**Namibia**  
 Tsumeb (crystals to 8 cm; some antimonian) **8**:T24, **8**:T60p

**Peru**  
 Hermina mine (2.5 cm crystal) **5**:218p  
 Huallapon mine, Ancash (crystals to 4 cm) **9**:36n  
 Julcani district **5**:218  
 Locality not specified (pyrite after) **20**:397

**Romania**  
 Bucium Ibitza **19**:(35)

**United States**  
 Arizona  
 Campbell shaft, Bisbee district (spots) **12**:305  
 Magma mine **14**:(82)  
 New Cornelia mine, Pima County **14**:(295)

California  
 Monitor-Mogul district, Alpine County (4 mines) (massive, some crystals) **22**:36q

## GENERAL INDEX

- Thompson mine, Inyo County (massive) **15:14n**
- Colorado**  
 Johnny Bull mine, Dolores County **16:(211)**  
 Longfellow mine, Ouray County **7:299–300p, 7:302n, 19:99p**  
 Mineral Farm, The, Ouray County (7.5 cm crystals) **7:303n**  
 National Belle mine, Ouray County **17:233–234p,d, 19:99**  
 Powers mine, Gilpin County **7:280n**  
 Red Elephant group, Clear Creek County (crystals to 5 cm) **7:283**  
 San Juan Mountains **10:358n**  
 Zuni mine, San Juan County **7:302n**
- Nevada**  
 Majuba Hill mine: minor **16:62**; unconfirmed **24:177**
- New Mexico**  
 Hansonburg district, Socorro County **20:(35)**  
 Locality not specified (micro crystals) **3:203**  
 Tri-State district **4:85**
- 
- “**ENDEIOLITE**”  
*See Pyrochlore*
- 
- ENDELLITE**  
*Called halloysite in European usage*
- Greece**  
 Plaka mine, Laurium (nodules) **7:122**
- 
- “**ENDLICHITE**”  
*See Vanadinite*
- 
- ENGLAND**  
*See also United Kingdom*  
*Metalliferous Mining Region of South-west England, The* **20:489–490b**
- Cheshire**  
 Alderly Edge **19:311s**
- Cornwall**  
 Botallack mine, northwest of St. Just **11:14s, 24:274–276p,h,m, 24:277–278**  
 Bounds Cliff, Daymer Bay, St. Minver **24:392s**  
 Clitters mine, near Gunnislake **21:492s, 22:390s**  
*Collector's Guide to the Minerals, Rocks and Gemstones in Cornwall and Devon* **1:150b**  
 Cornwall, history of mining in: **24:259–283h,m,p,g**; letter **25:67–68h**  
*Cornwall's Old Mines* **5:94–95b**  
 Cook's Kitchen mine, near Botallack mine, north of St. Just **24:276m, 24:277–278h**  
 Cugga mine **9:113s**  
 Deans quarry, St. Keverne **20:395s**  
 Dolcoath mine, near Botallack mine, north of St. Just **24:276m, 24:277–278h**  
 Drakewalls mine, Gunnislake **8:390s**  
 Fowey Consols mine, John's Lodge **1:84s, 13:170s**  
 Geevor mine, north of St. Just **20:395s, 22:390s, 24:276–277h**  
 Gravel Hill quarry, Perranporth **19:337s**  
 Greystones quarry, Lezant, near Launceston **23:434s**  
 Gunnislake, near Callington **4:79, 9:114s**  
 Gunver Head, Padstow **22:390s, 24:392s**  
 Halvosso quarry (see Penryn Granite Co.)  
 Hensbarrow china clay pit, St. Austell **12:350s**  
 Herodsfoot mine **21:97s, 24:262s, 24:269s, 24:271m**  
 Hingston Down Consols **20:395s**  
 Jowl Zwan, near St. Just **17:347s**  
 Kessel Downs quarry (see Penryn Granite Co.)  
 Lanterdan quarry, Tintagel **20:395s**  
 Levant mine, Geevor **24:272s, 25:44s**  
 Liskeard **11:14s**  
 Localities not specified **19:138b, 20:147s**  
 Longdowns, Stithians **20:395s**  
 Peeth lode, Geevor **25:44s**
- Pell mine, St. Agnes **4:95h,s**  
 Penberthy Crofts mine, near St. Hilary **20:395s, 21:492s, 23:434s, 24:392s, 25:44s**  
 Penryn Granite Co. quarry (Kessel Downs quarry, Halvosso quarry), Halvosso, west of Falmouth **8:294–297g**  
 Pentyre Glaze, St. Minver **25:44s**  
 Penzance **16:335s**  
 Port Quin, St. Endellion **21:492s**  
 Redruth area **13:362s**  
 Roscommon Cliff, St. Just **4:275s, 11:14s**  
 Roughtor Great Consols, Altarnun **20:395s**  
 St. Hilary **9:114s**  
 St. Just **16:335s**  
 South Caradon mine **13:170s**  
 South Crofty mine, northeast of Camborne **4:94–95g, 24:278h**  
 Stamps, near St. Just **17:347s**  
 Stenna Gwyn, near St. Austell **4:79**  
 Stowe's mine (see Wheal Phoenix)  
 Tregardock, St. Teath **19:337s, 24:392s**  
 Trevinnick mine, St. Kew **21:492s**  
 Trolvis, near Long Downs **4:95**  
 United mines, St. Day, Gwennap **24:269s**  
 West Caradon mine, St. Cleer, Liskeard **24:272s**  
 Wheal Cock, near Botallack mine, north of St. Just **24:276m, 24:277–278h**  
 Wheal Cock Zawn, Roscommon Cliff, near St. Just **8:296–297g,h**  
 Wheal Edward, near Botallack mine, north of St. Just **17:347s, 24:276m, 24:277–278h**  
 Wheal Jane, Kea **20:395s, 24:273s, 25:44s**  
 Wheal Mary Ann, Menheniot **4:95g**  
 Wheal Owles, near Botallack mine, north of St. Just **24:276m, 24:277–278h**  
 Wheal Penrose, Porthleven **19:337s, 24:392s**  
 Wheal Phoenix (Stowe's mine), Linkinhorne **12:351s**  
 Wheal Remfry china clay pit, St. Enoder **12:350s**  
 Wheal Unity, near St. Day **21:492s, 24:272s**  
 Wheal Wrey **14:364s, 24:273s**  
 Wherry mine, near Penzance **4:80**
- Cumbria**  
 Admiralty Flats (see Nentsberry Haggs mine)  
 Allenhead mine **9:37s**  
 Alston **1:84s**  
 Black Dean mine **9:37s**  
 Blagill mine, Alston **20:395s**  
 Brae Fell mine, Caldbeck Fells district **22:108h, 22:111m**  
 Brandy Gill Lead mine, Caldbeck Fells district **22:108h, 22:111m**  
 Bromley Hill mine, Nenthead: **24:394s, 25:145h**; see England—Cumbria—Brownley Hill mine  
 Brownley Hill mine, near Nenthead, Alston Moor **23:434s, 24:394s, 25:145h**  
 Caldbeck Fells district **22:105–121h,m,p,g, 22:153b**  
 Carrock Fell **1:84s, 1:86s**  
 Carrock mine, Caldbeck Fells district **22:108h, 22:111m**  
 Cumberland **18:407–408s, 18:411s, 19:149s**  
 Driggith mine, Caldbeck Fells district **22:108–109h, 22:111m**  
 Dry Gill mine, Caldbeck Fells district **15:112s, 22:108p, 22:109–110h, 22:111m**  
 Height mine **9:37s**  
 Ingray Gill, Caldbeck Fells district **22:111m, 22:112h**  
 Lake District **19:206b**  
 Locality not specified **14:374s**  
 Lunehead mine, Lunedale **23:434s**  
 Mexico mine, Caldbeck Fells district **22:110h, 22:111m**  
 Nentsberry Haggs mine, Nenthead **25:44s, 25:145h**
- Old Potts Gill mine, Caldbeck Fells district **22:110h, 22:111m**  
 Pink quarry, Shap Fell **21:492s**  
 Potts Gill mine, Caldbeck **14:23s**  
 Red Gill mine, Caldbeck Fells **20:395s, 22:109p, 22:110–111h,m, 22:390s**  
 Rogerly quarry **9:37s**  
 Roughton Gill mine, Caldbeck Fells district **22:110p, 22:111–112m,h,g**  
 Scoredale mine **9:37s**  
 Short Grain, Caldbeck Fells district **22:111m, 22:112h**  
 Tynebottom mine, Alston **13:168s**  
 Upper Roughton Gill mine, Caldbeck Fells **22:390s**  
 West Pastures mine **9:37s**
- Derby**  
 Alport Hill, Ashley Hay **14:16m**  
 Arbor Low, near Youlgreave **14:16m**  
 Arkwright mine, Matlock Bath **23:383, 25:40h**  
 Bage mine, Bolehill, between Cromford and Wirksworth **4:79–80s, 14:16m, 14:18p**  
 Bage mine, Matlock **23:382–385h, 25:40h**  
 Ball Eye quarry, Bonsall **14:16m**  
 Brownedge, near Winster **14:16m**  
 Calton Hill **14:16m**  
 Castleton **14:16m**  
 Chellaston **14:23s**  
 Crich **14:16m**  
 Cromford (near) **4:80s**  
 Dene quarry, Cromford **14:16m**  
 Derbyshire orefield, Derby and Stafford **14:15–24h,g,m,p**  
 Ecton mine, Ecton **19:149s**  
 Fall Gate quarry, near Ashover **21:492s**  
 Fall Hill quarry, Ashover **14:16m**  
 Golconda mine, Hopton **14:16m**  
 Hazlebadge **14:16m**  
 Ible, near Matlock **14:16s**  
 Ladywash mine, Eyam **14:16m**  
 Masson Cavern, Matlock Bath **14:16m**  
 Masson quarry, Matlock **14:16m**  
 Matlock region **23:377–385h, 25:39–41h**  
 Mill Close mine, Wensley **14:16m**  
 Miller's Dale **14:16m**  
 Odin mine, Castleton **14:16m**  
 Riber mine, Matlock **14:16m**  
 Rutland Cavern, Matlock Bath **14:16m**  
 Snelston **14:16m**  
 Tansley **14:16m**  
 Treak Cliff reef, Castleton **14:16m**  
 Wall Close vein, Matlock (see Bage mine)  
 Wapping mine, Matlock Bath **14:20s**  
 Watersaw Rake, Longstone **14:16m**  
 Windy Knoll quarry, Castleton **14:16m**  
 Winster **14:16m**
- Devon**  
 Bedford United quarry, Tavistock **19:337s, 20:395s**  
*Collector's Guide to the Minerals, Rocks and Gemstones in Cornwall and Devon* **1:150b**  
 Fullabrook mine, Ilfracombe **24:392s**  
 Hope's Nose, Torquay **14:206h, 18:85–88m,g,h**  
 Locality not specified **19:138b**  
 Meldon aplite quarry **20:395s, 21:492s**  
 Merrivale quarry, Dartmoor **20:395s**  
 New East Wheal Russel, Tavistock **20:395s**  
 Ramsley quarry, Sticklepath **20:395s**  
 Tavistock **1:84s**  
 Virtuous Lady mine, Tavistock **4:80s**  
 Wheal Friendship, Mary Tavy **13:168–169s**
- Durham**  
 Black Dean (Blackden) mine, Weardale area **18:148s**  
 Blue Circle cement quarry, near Heights mine **24:394s**

## GENERAL INDEX

- Boltsburn mine, Rookhope Village, Weardale 13:5–18h,m,p,g  
 Cambockeels mine, Weardale 25:44s  
 Eastgate mine, Weardale area 18:148s  
 Fraziers Hush mine, Rookhope 20:395s, 25:44s,h  
 Heights mine, Weardale 25:44h  
 Heights quarry, Weardale 25:44h  
 Rogerley quarry, Frosterley, Weardale 25:44  
 Weardale area 18:148s, 19:115s  
 West Pastures mine, Weardale area 18:148s
- Leicester**  
 Bardon quarry, Coalville 19:337s, 24:392s  
 British Gypsum mine, Barrow-upon-Soar 20:395s
- Merseyside**  
 Thurstaston, Wirral 21:492s
- Northumberland**  
 Higgs mine, Nentsberry (actually Nentsberry Higgs mine, Cumbria) 24:394s, 25:145h
- North Yorkshire**  
 Boulby mine, Loftus, Cleaveland 23:434s, 24:392s, 25:44s, 25:61g, 25:140s, 25:215s
- Shropshire**  
 East Roman Gravels mine, Shelve 6:311  
 Judkins quarry, Nuneaton 21:492s  
 Ladywell mine, Shelve 13:167s, 13:168p  
 Locality not specified 20:395s  
 Squilver quarry, Disgwylva Hill 24:392s
- Somerset**  
 Higher Pitts mine, near Priddy, northwest of Wells 8:298–303m,g  
 Mendip Hills 8:298–303h,m,g  
 Merehead quarry, Merehead, near Cranmore 8:298–303h,m,g, 19:337s
- Stafford**  
 Bag mine, Ecton Hill 14:22s  
 Clayton Adit, Ecton Hill 14:20p  
 Derbyshire orefield, Derby and Stafford 14:15–24h,g,m,p  
 Ecton Hill 14:16m
- Yorkshire**  
 Boulby mine, Loftus, Cleaveland 23:434s, 24:392s, 25:44s, 25:61g, 25:140s
- 
- ENGLISHITE**
- United States**  
 South Dakota  
 Tip Top mine 14:196, 17:240q, 17:241p, 17:250
- 
- ENSTATITE**
- Brazil**  
 Bahia  
 Brumado district 9:204
- Italy**  
 Sicily  
 Biancavilla 17:(206)
- Sri Lanka**  
 Embilipidya 17:341n  
 Ratnapura 19:338n
- United States**  
 Arizona  
 Bisbee district 12:(305)
- 
- EOSPHORITE**
- In pegmatite environments 4:126  
 Numerous world localities 4:121, 4:126
- Brazil**  
 Minas Gerais  
 Galiléia (near): 9:316; childrenite-eosphorite 20:394  
 Ilha mine: 19:(120); micro prismatic 4:208–209p,q; zoned, detailed study 21:418–422p,q  
 Jequitinhonha River (on rose quartz crystals) 2:12  
 João Modesto dos Santos mine (childrenite-eosphorite; crystals to 10 cm) 14:228p, 14:233
- Linópolis (near) (ernstite after, to 12 cm) 21:253n, 21:254p  
 Pamaró mine (5 kg crystal groups; some frondelite after) 14:235  
 Taquaral 11:29  
 Telíral mine (childrenite-eosphorite) 14:234n
- Canada**  
 Yukon  
 Rapid Creek area (childrenite-eosphorite; crystals to 4 cm) 23:Y19q
- United States**  
 Maine  
 Bell Pit, Oxford County (micro) 1:114  
 Bennett quarry (acicular, prismatic to 15 mm) 25:181  
 Black Mountain, Oxford County: 14:367p, 16:378n; 37 mm crystal 6:199n; with hurlbutite 18:(360)  
 Dunton mine 16:382  
 Havey quarry, Androscoggin County 16:(375)  
 Newry area: 14:367p; crystals to 4 mm 6:196p, 6:198–199, 6:202n  
 South Dakota  
 Tip Top mine (eosphorite-childrenite) 17:241c,p, 17:250
- 
- EPHESITE**
- South Africa**  
 Cape Province  
 Wessels mine (1 mm platy) 22:284
- 
- EPIDIDYMITÉ**
- Canada**  
 Québec  
 Mt. St-Hilaire: reticulate twins, trillings 21:307–308p,d; single 13:246p; trillings 13:241; various habits 10:98p
- Greenland**  
 Narssársuk pegmatite: 18:(357); crystals to 2 cm 5:120p, 5:121; twins, trillings 24:G43–44h,p,d,c
- Malawi**  
 Mt. Malosa region (laths to 6 cm; trillings) 25:31, 25:32p
- 
- EPIDOTE**
- Australia**  
 South Australia  
 Moonta mines 19:(412)  
 Wallaroo mines 19:(413)
- Austria**  
 Gertrusk 17:(110)  
 Knappenwand, Salzburg 17:105n, 17:108p, 17:169–170, 17:172–173p, 17:178–179p,d, 19:124s, 19:340b, 25:362p
- Brazil**  
 Minas Gerais  
 Campo do Boa, northwest of Capelinha (fibrous to 30 cm) 5:226
- Canada**  
 Ontario  
 Mamainse Point mines (pale gemmy) 13:107n  
 Marmoraton mines 13:74n, 13:111n  
 Pinchin (Bonter) quarry 13:74n  
 Steenburg Lake 13:73q, 13:74n, 13:76p
- Québec  
 Marbridge #1 mine, Malartic district (crystals to 1 cm) 7:178  
 Mt. St-Hilaire: 18:364n; prismatic to 3 mm 21:308
- Czech Republic (formerly Czechoslovakia)**  
 Sobotín 19:(12)
- England**  
 Cornwall  
 Botallack district (thin bladed) 24:280
- France**  
 Bourg d'Oisans, Isère 20:300  
 Queiras (to 5 cm) 22:390n
- Greece**  
 Xánthi, Thraki (gemmy to 5 cm) 9:134
- Iran**  
 Locality not specified (20 cm groups) 22:390n
- Italy**  
 Lombardy  
 Baveno area (small acicular) 14:163  
 Piemonte  
 Antronapiana, Valle d'Antrona 10:86  
 Laso Palino 19:(337)  
 Val Chisone 23:434n  
 Premosello area 10:86  
 Tuscany  
 Carrara region (id as sphalerite) 18:289  
 Val d'Aosta  
 Val di Via (blocky) 21:250  
 Val di Viù (3 cm equant) 15:117n
- Mexico**  
 Guerrero  
 Taxco: 20:396; prismatic to 7 cm 21:490n
- Namibia**  
 Rehoboth (near) 18:367n, 19:(337)
- Nepal**  
 Kali Gandaki Valley  
 Manang district 21:490
- Norway**  
 Hotvedt, Sandefjord 20:397  
 Kongsberg 17:(35)  
 Valldal, Møre og Romsdal 24:393s
- Pakistan**  
 Haramosh Valley 19:210n, 20:69–70, 20:397  
 Locality not specified (large, gemmy crystals) 16:499p  
 Tomiq (Tormiq) 18:366p, 18:(368), 20:(237)
- South Africa**  
 Cape Province  
 Hotazel mine 22:284  
 Wessels mine 22:284  
 Transvaal  
 Artonvilla mine (Emery lode) 22:197  
 Messina district (crystals to 5 cm) 22:197
- Sweden**  
 Borlänge, (5 cm crystals) 22:48n
- United States**  
 Alaska  
 Green Monster Mountain, Prince of Wales Island: crystals over 10 cm 8:9–12p,q; V-twins to 5 cm 23:280  
 Jumbo mine (near), Prince of Wales Island: after "adularia" 8:6n; crystals to 10 cm 8:8–9c, 8:10–12p  
 Prince of Wales Island 19:331n
- Arizona  
 Iron Cap mine, Graham County 19:(87)  
 Mammoth mine, Pinal County (needles) 11:160  
 New Cornelia mine, Pima County (anhedral) 14:295  
 Sacramento Hill area, Bisbee district (small, unusual crystals) 12:305  
 Tonopah-Belmont mine, Maricopa County 19:143
- California  
 Jensen quarry, Riverside County (gemmy, to 12 cm) 15:276–277p  
 Little Three pegmatites, San Diego County (epidote-clinozoisite) 20:121  
 Lizzy claim, Riverside County 19:117n  
 Miracle Mountain mine, Calaveras County (crystals to 23 cm) 15:313  
 New Melones Lake spillway, Calaveras County (some pale yellow) 13:297q, 13:299, 13:301p  
 Saline Valley, Inyo County (14 cm crystals) 14:55–56
- Colorado  
 Calumet iron mine, Chaffee County 10:332

## GENERAL INDEX

- Idarado mine, Ouray/San Miguel counties (gemmy) **7**:306n  
 Italian Mountain area, Gunnison County **15**:81–82p
- Idaho**  
 Sawtooth batholith **24**:(199)
- Massachusetts**  
 Chester emery mines (crystals to 5 cm) **9**:239
- Michigan**  
 Caledonia mine, Ontonagon County **18**:(360)  
 Keweenaw Peninsula (several mines): micro euhedral **14**:220; sharp tabular micro **23**:M65  
 Laurium mine, Houghton County **23**:63p  
 Negaunee (near), Marquette County **17**:121n  
 Osceola mine, Houghton County **14**:225p  
 Osceola #10 shaft, Houghton County (micro gemmy) **9**:314
- Montana**  
 Bald Mountain, Jefferson County (crystals to 10 cm) **7**:21c, **7**:24p,d  
 Jefferson County **20**:390  
 Pat's Gulch, Powell County (doubly terminated) **22**:383
- Nevada**  
 Julie claim, Mineral County: lustrous euhedral crystals to 15 cm **16**:76–78p; sharp groups to 15 cm **13**:39–41p
- New Jersey**  
 Prospect Park quarry, Passaic County (in calcite) **9**:173
- New Mexico**  
 Harding mine (small euhedral) **8**:123n  
 Magdalena district, Socorro County **20**:20  
 Mina Tiro Estrella, Lincoln County **20**:52
- Pennsylvania**  
 French Creek mine (small crystals) **25**:114
- Washington**  
 Bessemer Iron claim, King County (quartz, hematite after) **15**:177  
 Denny Mountain, King County **8**:15–18
- Wales**  
 Dyfed  
 Marloes Bay (sharp micro) **21**:492n
- “EPI-IANTHINITE”
- 
- See Schoepite*
- EPISTILBITE**
- 
- Iceland**  
 Skardscheidi, Bogardfjardur **19**:(337)  
 Teigarhorn **17**:269p, **17**:340n
- India**  
 Jalgaon area quarries **23**:434n
- United States**  
 Hawaii  
 Puu o Ehu quarry, Oahu: **14**:50p; prismatic **15**:96–97p
- EPISTOLITE**
- 
- Canada**  
 Québec  
 Mt. St-Hilaire: formerly Unknown #46 **18**:364n; micaceous, platy to 5 cm **21**:308
- Greenland**  
 Ilímaussaq complex (tabular to 10 cm) **24**:G26
- Iceland**  
 Berufjörður (crystals to 1 cm) **12**:15c, **12**:16d,p  
 Eyafjörður **12**:16
- EPITAXY**
- 
- Albite on microcline: Hotvedt, Norway **20**:397  
 Albite on orthoclase: Baveno, Italy **14**:160–161d; Elba, Italy **16**:356d  
 Aragonite blades on calcite, Bisbee, AZ **12**:290  
 Azurite oriented on malachite pseudomorphs after azurite **14**:294
- Bixbyite on topaz cleavage plane, Topaz Mountain, UT **16**:139, **16**:142p  
 Calcite on calcite: Jindeveck quarry, Australia **19**:199; Lancashire, England **18**:411p  
 Chalcopryite oriented in sphalerite, Bandora mine, CO **19**:245  
 Clinocllore on graphite (prob. epitaxy), Crestmore quarry, CA **22**:430–431p  
 Cumengite on boleite, Santa Rosalia, Baja California **13**:32p  
 Cuprite poss. oriented on copper, Bisbee, AZ **12**:303  
 Elpidite on labuntsovite and vice versa, Mt. St-Hilaire, Québec **25**:209–210  
 “Epitaxial” vs. “epitactic/epitaxial” **17**:276  
 Fluorite on galena (poss. epitaxy) **9**:217, **9**:218p  
 Galeite on schairerite, Searles Lake, CA **6**:78–79d  
 Galena on pyrite (poss. epitaxy) **10**:33  
 Hematite on hypersthene, Summit Rock, OR **16**:137, **16**:140p, **17**:138–139p  
 Hematite, preferential overgrowths on quartz, calcite **15**:227–229p,d,m  
 Ilmenite on bixbyite, Paramount Canyon, NM **20**:54–55  
 Jeanbandyite on wickmanite, Llallagua, Bolivia **13**:235–236p  
 Labuntsovite on elpidite **10**:97p  
 Lepidolite on beryl, Elba, Italy **16**:357n  
 Manganite on rhodochrosite (poss. epitaxy) **9**:146p  
 Marcasite on pyrite, Nanisivik mine, Northwest Territories **21**:525–531p,d  
 Marsturite on rhodonite, Franklin, NJ **17**:123–125p,m,q  
 Mimetite on mimetite, Mt. Bonnie, Australia **19**:444  
 Natrolite poss. on thomsonite, Simmons Bay, Australia **17**:269n  
 Offretite on levynite, Philip Island, Australia **19**:455  
 Orthoclase on albite, Carrara, Italy **18**:288d  
 Pentlandite on pyrrhotite, Miggiandone, Italy **7**:84–85p  
 Pyrite on arsenopyrite, Noche Buena mine, Mexico **2**:247p  
 Pyrite on sphalerite, Portland mine, CO **19**:100–101  
 Pyrite on twinned marcasite, Nanisivik mine, Northwest Territories **19**:334, **21**:525–531p,d  
 Pyrochlore on baddeleyite, Jacupiranga mine, Brazil **15**:264  
 Quartz scepters, Fat Jack mine, AZ **22**:22p, **22**:27  
 Quartz var. amethyst: Fremont County, CO (on milky quartz) **15**:177–178p; Uruguay (on calcite) **20**:236  
 Ramsdellite on goethite, Chihuahua, Mexico **3**:210p, **4**:77–78  
 Rutile epitaxial on hematite, in quartz, Rio Grande do Sul, Brazil **18**:143p  
 Rutile on ilmenite, Ibitiara, Brazil **21**:96–97p  
 Siderite on dolomite, Sterling mine, NY **15**:204  
 Silver crystals on copper crystals, Lake Superior mine, MI **17**:43p  
 Sjögrenite on pyroaurite, Sterling Hill, NJ **12**:371–372p  
 Sphalerite on wurtzite, Donohoe, PA **20**:391  
 Taaffeite on spinel, Pitkäranta district, Siberia **22**:343, **22**:347  
 Tennantite on pyrite, Quiruvilca, Peru **4**:159–163  
 Tetranatrolite on monteregianite, Mt. St-Hilaire, Québec **13**:242–243p  
 Thorikosite on laurionite and paralaaurionite, Laurium, Greece **17**:184, **17**:188  
 Wurtzite on sphalerite: **10**:239–240p; Carrara region, Italy **18**:271d, **18**:277p  
 Xenotime on zircon, Jensen quarry, Riverside County, CA **15**:286d
- EPSOMITE**
- 
- Toxicity **11**:7
- Australia**  
 Queensland  
 Mt. Isa mine (post-mining) **19**:480  
 South Australia  
 Wallaroo mines **19**:(412)
- Canada**  
 Yukon  
 Big Fish River (efflorescences) **23**:Y37
- Chile**  
 Chuquicamata **9**:328
- Italy**  
 Tuscany  
 Cetine mine **15**:29, **15**:30p
- Slovenia (formerly Yugoslavia)**  
 Mežica mine (post-mining crusts) **22**:104n
- United States**  
 Arizona  
 Campbell shaft, Bisbee district (colorless prisms to 5 cm) **12**:305  
 New Cornelia mine, Pima County (fibrous crusts) **14**:295  
 California  
 Geysers, The, Sonoma County: pentahydrate after **24**:351p; powdery, fibrous **24**:350  
 Kalkar quarry, Santa Cruz County **17**:323n  
 Stayton mine, Stayton district **20**:433  
 Yellow Jacket mine, Stayton district **20**:433  
 Nevada  
 Majuba Hill mine: fibrous, post-mining **16**:66; id as thenardite **24**:175  
 White Caps mine, Nye County (“carpet” of needles to 5 cm) **16**:86n
- ERDITE**
- 
- Canada**  
 Québec  
 Mt. St-Hilaire (wire-like to 1 mm) **21**:308p  
 Poudrette quarry **21**:(486)
- ERIOCHALCITE**
- 
- Australia**  
 South Australia  
 Moonta mines **19**:(412)
- ERIONITE**
- 
- Vs. offretite **2**:52ff,q
- Australia**  
 New South Wales  
 Willy Wally Gully **19**:401–402p,c
- Canada**  
 British Columbia  
 Chase Creek, Falkland (1–2 mm prismatic) **21**:485n  
 Monte Creek, Kamloops district **19**:333n
- Iceland**  
 Breidhdalur-Berufsjörður area **12**:(21)  
 Hofsa **12**:(21)  
 Hvalstod Hvalfjörður **17**:340n
- Ireland**  
 Parkgate quarry, County Antrim (on micro levynite; poss. offretite) **10**:174, **10**:175p
- New Zealand**  
 Moeraki, Otavi (1 mm prisms) **14**:49p, **14**:50
- Northern Ireland**  
 Giant's Causeway **20**:395
- United States**  
 Arizona  
 Malpais Hill, Pinal County (“aragonite” id as) **14**:109–112p  
 Thumb Butte, Graham County **12**:43–44p  
 Washington  
 Rock Island Dam area, Douglas/Chelan counties **14**:109h  
 Wyoming  
 Yellowstone National Park (micro) **12**:34

## GENERAL INDEX

### ERNSTITE

#### Brazil

Minas Gerais  
Linópolis (near) (after eosphorite, to 12 cm)  
**21:253n, 21:254p**

#### Canada

Yukon  
Big Fish River area (ernstite-like mineral, radial sprays) **23:Y36q**

#### Namibia

Near Karibib  
Davib-east farm (newly described) **2:129h,c,q**

### ERRATA

About those typos . . . **20:100**  
Complete Book of Micromounting, erroneous photo credits **25:302**  
*Encyclopedia of Minerals* (1st ed.) **7:318**  
*Mineralogical Record* v1n1, **1:82**; v2n2, **2:192**; v2n3, **2:192**; v2n4, **2:240**; v2n5, **2:274**; v2n6, **3:6**; v3n4, **4:48**; v4n4, **4:274**, **5:146**; v4n6, **5:146**; v5n5, **6:138**; v6n2, **6:137**; v6n5, **7:3**; v7n4, **7:318**; v7n5, **7:318**; v7n6, **8:82**; v8n1, **8:82**, **8:285**, **8:330**; v8n2, **8:285**; v8n3, **9:44**, **9:45**; v8n5, **9:119**; v8n6, **9:62**, **9:119**, **9:131**; v9n1, **9:211**; v9n2, **9:211**; v9n3, **9:274**, **11:56**; v9n4, **10:252**; v9n5, **10:56**; v9n6, **10:56**; v10n1, **10:251–252**; v10n2, **11:55**; v10n4, **11:55**, **11:56**; v10n5, **11:55**; v11n1, **11:202**, **11:388**; v11n5, **12:136**; v12n1, **12:136**; v12n2, **12:395**; v12n3, **12:393**, **12:395**; v13n1, **13:180**; v13n2, **14:62**; v13n3, **14:62**; v13n5, **14:62**; v14n1, **14:176**; v14n2, **14:266**; v14n3, **14:210**; v15n3, **16:160**; v15n5, **16:160**; v15n6, **16:160**; v16n2, **16:319–320**, **16:501**, **18:258**; v16n5, **16:501**; v21n1, **21:501**; v21n2, **21:500**; v21n3, **21:499–500**; v22n1, **22:312**, **22:480**; v22n4, **22:480**; v22n6, **23:4**, **23:284**, **23:288**; v23n5, **24:56**; v23n5, **25:386**; v23n6, **24:322**; v24n3, **24:401**; v24n5, **25:145**; v25n1, **25:145**; v25n2, **25:386**; v25n3, **25:386**

### “ERUBESCITE”

*See Bornite*

### ERYTHRITE

#### Australia

New South Wales  
Carcoar (furry acicular; locality disputed)  
**23:84**  
Queensland  
Mt. Cobalt mine: **19:470p**, **19:488–489**; mis-attributed to Carcoare, New South Wales  
**23:427p**, **23:432**  
South Australia  
Walleroo mines **19:416**

#### Canada

British Columbia  
Rocher Déboulé mine (crusts) **15:91n**  
Northwest Territories  
Port Radium **20:(207)**  
Ontario  
Cobalt Lake (near) (micro spheres) **13:110p**  
Silver Islet mine **17:(59)**  
Québec  
Mt. St-Hilaire (crust) **21:308**  
Poudrette quarry **19:334n**

#### Czech Republic (formerly Czechoslovakia)

Třebosko deposit (T-1 vein) **22:(212)**

#### England

Cornwall  
Botallack district (powdery) **24:280**  
Cumbria  
Tynebottom mine, Alston **13:(168)**

#### Germany

Baden-Württemberg  
Schmiedestollenhalde, Wittichen district (micro balls) **8:307p**

#### Hessen

Richelsdorf **15:111p**

#### Morocco

Bou Azzer (near): **20:72**, **20:396**; crystals to 6 cm **9:71–72p**; crystals to 10 mm **13:315**  
Mibladen **7:244–247p**

#### Norway

Kongsberg **17:(35)**

#### Scotland

Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**

#### United States

Michigan  
Mohawk mine, Keweenaw County (coating)  
**23:M65**  
White Pine mine, Ontonagon County **23:M65**  
New Jersey  
Sterling Hill mine **13:(37)**  
New Mexico  
Alhambra mine, Grant County **20:59n**  
Pennsylvania  
French Creek mine (coatings, micro crystals)  
**25:114**  
Wheatley mine **20:379**

### ESKEBORNITE

#### Bolivia

El Dragón mine, Potosí (micro inclusions)  
**21:138n**

### ESKOLAITE

#### Brazil

Bahia  
Morro do Chapéu propsect, Chapada Diamantina region (4 mm crystals) **16:112n**  
“ESMARALDITE”

*See Goethite*

### ESPERITE

#### Bolivia

El Dragón mine, Potosí (crystals to 1 mm; yellow fl.) **21:142c,p,q**

#### United States

New Jersey  
Franklin/Sterling Hill: anhedral **22:274–275**; fl. **19:275**  
Paterson, Passaic County **21:142q**

### ETTRINGITE

#### England

Derby  
Fall Gate quarry, near Ashover (micro) **21:492**

#### France

Saint-Maime, Alpes de Haute Provence (ettringite-thaumasite; micro prismatic) **25:210p**

#### Germany

Rheinland-Pfalz  
Laacher See area, Eifel district **8:319d**, **10:96p**

#### South Africa

Cape Province  
Kalahari manganese field (associated with sturmanite) **22:284**, **22:293**  
Kuruman (near) (poss. sturmanite and/or charlesite) **14:387p**  
N’Chwaning mine **19:114n**

### EUCAIRITE

#### Australia

Western Australia  
Kalgoorlie **18:(28)**

### EUCHROITE

#### Greece

Kamaréza mine, Laurium (crusts) **7:122–123**

#### Hungary

Locality not specified **1:(86)**

### EUCLASE

#### Austria

Sonnblick Mountain, Salzburg **13:173n**

#### Brazil

Minas Gerais  
Locality not specified (tabular) **10:179**  
Mãe do Homens (colorless) **2:12n**  
Ouro Preto region: **20:227–228p,d**; 3 localities, gemmy blue, green, colorless **2:12n**  
Santa do Encoberto, São Sebastião do Maranhão County (white, clear doubly terminated to 8 cm) **5:226**, **5:229p**  
Rio Grande do Norte  
Alto Santino, near Ecuador **7:164p**

#### Germany

Bavaria  
Epprechtstein (on orthoclase) **18:(162)**

#### Russia (formerly USSR)

Sverdlovsk area (?) **20:75n**

#### Zimbabwe (formerly Rhodesia)

Harare **19:124n**  
Last Hope (Lost Hope?) mine, Karoi district **17:341n**, **22:256**  
Locality not specified (doubly terminated to 4.5 cm) **11:321n**  
Miami (gemmy euhedral) **10:179**  
St. Anne’s mine, Miami **20:(147)**

### EUCRYPTITE

#### United States

New Mexico  
Harding mine (earthy; fl. red) **8:123n**  
North Carolina  
Foote mine **3:36**

### EUDIALYTE

#### Canada

Québec  
DeMix quarry **18:(363)**  
Kipawa complex, Timiskaming County **19:(335)**  
Mt. St-Hilaire: **10:104**, **10:107p**, **13:242**, **13:244p**; some id as petarosite **13:44**; subhedral to 5 cm, gemmy to 15 mm **21:308–309p**

#### Greenland

Ilímaussaq: layers to 1 m thick **24:G22–23h,d,c**; massive with 3 cm crystals **22:48n**  
Narsarsuk pegmatite: crystals to 5 cm; aegirine and elpidite after to 8 cm **24:G41**, **24:G42p**; masses **5:121**  
Naujakasik (crystals to 10 cm) **24:G23**

#### Russia (formerly USSR)

Khibiny massif, Kola Peninsula (euhedral to 2.5 cm) **23:437n**

#### United States

Alaska  
Prince of Wales Island **19:331n**  
New Mexico  
Point of Rocks quarry, Colfax County **15:152**, **15:154p**  
Wind Mountain, Otero County **20:60n**

### EUIDYMITITE

#### Canada

Québec  
Mt. St-Hilaire (euhedral groups to 2 cm) **21:309p**  
Poudrette quarry **17:339**, **18:363n**

#### Greenland

Narsarsuk **5:121n**

#### Malawi

Mt. Malosa region (platy to 5 cm) **25:31**, **25:32p**

## GENERAL INDEX

---

### EUGENITE

---

#### United States

- Arizona
- Southwest mine, Bisbee (minute grains) **24:429n**

### EULYTITE

---

#### Canada

- Québec
- Evans-Lou pegmatite (minute crystals) **3:73**

#### Germany

- Obersachsen
- Johanngeorgenstadt **8:(517)**
- Schneeberg **3:36, 3:37d, 19:325–326c.p**

### EUXENITE-(Y)

---

- Metamict **4:218**

#### Brazil

- Minas Gerais
- Ferros **2:12n**
- Jaguaraçu pegmatite (large euhedral; acicular) **25:167p, 25:168**

### Canada

- Ontario
- J. G. Cole quarry, near Madawaska (4 cm crystal) **10:155n, 13:84p**
- McCoy beryl mine, near Quadeville ("lyndochite" to 4 cm) **10:155**
- Quadeville area **13:84**
- Rose quartz quarry near Quadeville (blebs) **10:155**

### Greenland

- Godthåbsfjord area (metamict) **24:G14n**

### Madagascar

- Locality not specified **18:162n, 20:299**

### EVAPORITE MINERAL DEPOSITS

---

- Boron, CA **6:84–91, 19:315–318**
- Boron minerals and deposits **3:165–172, 3:213–220**
- Bristol Dry Lake, CA (antarcticite) **2:171–173, 23:501–502**
- Camp Verde, AZ **14:85–90**

- Chacabuco, Chile (nitrate caliche) **14:358–360**
- Hunter Valley, Australia **7:60–68**
- Lake Gilles, Australia (gypsum) **13:187–191**
- Salar de Pintados, Chile (mirabilite) **1:12–15ff**
- Searles Lake, CA **6:74–83**
- Wieliczka, Poland **19:32–33**

### EVEITE

---

#### Sweden

- Långban (newly described) **2:83h,c,q**

### EWALDITE

---

#### Canada

- Québec
- Mt. St-Hilaire (pagoda-shaped crystals to 10 cm) **21:309p**

### EZCURRITE

---

- Toxicity **11:6**



## GENERAL INDEX

### FAHEYITE

#### Brazil

Minas Gerais  
Sapucaia area **2:**(12), **4:**122

#### United States

South Dakota  
Roosevelt mine, Custer County (1 mm sprays)  
**23:**425

### FAIRFIELDITE

In pegmatite environments **4:**126

#### Germany

Bavaria  
Hühnerkobel **4:**(121)

#### United States

Seven pegmatite localities: **4:**121; fairfieldite-messelite **4:**126

#### Maine

Bennett quarry (clear crystals) **25:**181  
Havey quarry, Androscoggin County **16:**(375)  
Newry area (micro rosettes, wheat sheaves)  
**6:**197p, **6:**199, **6:**202n

#### North Carolina

Foote mine **18:**(133)

#### South Dakota

Tip Top mine: **14:**196; some todorokite after  
**17:**241–242, **17:**250

### FAKES, FRAUDS, AND SYNTHETIC

#### "MINERALS"

Algodonite, native lead, Tsumeb, Namibia (prob. smelter products) **13:**145

Anglesite, reddish-orange Moroccan, artificially colored **15:**249, **19:**(116)

Aquamarine, Brazilian "matrix" specimens created in Germany **14:**61

"Beringer Lügensteine," fossil fakes **18:**122

Chinese specimens increasingly faked **25:**47

Cinnabar specimen, Chinese, in American Museum **18:**426–427

Copper acetate hydrate, prob. synthetic crystals on native copper specimen **12:**49p

Copper, laser-induced "bloom" in chalcedony **12:**201p, **12:**212–213

Definitions proposed for repair, restore, reinforce, manufacture: **7:**154–156; letters **7:**321–322

Detecting **3:**129ff

Emerald matrix specimens **18:**252

Epidote specimens, Knappenwand, "assembled" **17:**171

Fakes (definitions, examples, techniques): **12:**197–219; responses (letters) **13:**179–180

Franklin-Sterling Hill minerals (humorous) **19:**275

Gold: crystals from Venezuela, cast **22:**53, **23:**283–284; nuggets and wires **5:**293

Heat-treated and irradiated specimens **14:**61

Historic fakes **12:**198–200

Mineral fraud (guest editorial) **12:**194

Papier-mâché "ore boulders," Mineral Farm mine, CO **19:**99

Pyrrhotite, blue, from Brazil **17:**145

Quartz (synthetically blue "Aqua Aura") **20:**323

Rose quartz, artificially color-intensified **18:**375

Silver on quartz **20:**404

Variscite apparently formed from industrial water pollution **2:**231p, **2:**284

### FAMATINITE

#### Chile

Chuquicamata (poss. luzonite) **9:**(323)

#### France

Les Farges mine, Corrèze **13:**(267)

#### Italy

Tuscany  
Calagio quarries **18:**269–270p,q

#### Namibia

Tsumeb **8:**T24n, **8:**T83p

### United States

#### Arizona

Campbell shaft, Bisbee district (in chalcocite) **12:**305

Magma mine **14:**(82)

#### California

Darwin mine, Inyo County (grains) **15:**14n  
Morning Star mine, Alpine County (masses) **22:**36

#### Colorado

Red Mountain district, Ouray County **10:**358n

#### "FAROEELITE"

*See Thomsonite*

#### "FASSAITE"

*Ferrian aluminian diopside or augite*

#### Pakistan

Haramosh, Gilgit Division **20:**397

### FAUJASITE

#### Germany

Baden-Württemberg  
Limberg, near Sasbach **8:**305p

#### United States

Michigan  
Copper Falls mine, Keweenaw County **23:**M65

### FAUSTITE

#### United States

#### Nevada

Copper King mine, Eureka County **16:**46–47h

#### Utah

Bingham open pit, Salt Lake County (botryoidal) **21:**484n

### FAYALITE

#### Australia

New South Wales  
Broken Hill (ferroan, "knebelite") **7:**28–29n

#### Canada

British Columbia  
Bluebell mine, Riondel (tabular manganian) **8:**36

#### Italy

Lombardy  
Baveno area (masses, crude crystals) **14:**163

#### Moon

Localities not specified **1:**20–21

#### Sweden

Lustigkulla mine (ferroan, "knebelite") **9:**(113)

#### United States

#### California

Coso Hot Springs, Inyo County **8:**(432), **16:**138p

#### Idaho

Sawtooth batholith (altered, to 10 cm) **24:**194

#### Oregon

Obsidian Cliffs, Lane County (magnesian, micro tabular, "hortonolite") **10:**298p, **11:**58n  
Three Sister Peaks, Lane County (magnesian manganian, "hortonolite") **16:**138, **16:**141p

### FEITKNECHTITE

#### South Africa

Cape Province  
Middelplaats mine (flaky brown) **22:**284n

### FELDSPAR GROUP

*See also names of individual species*

#### Brazil

#### Minas Gerais

Énio pegmatite, near Galiléia (various species and habits) **12:**72

Urubu pegmatite, Araçuaí area **12:**75n

#### Canada

#### British Columbia

Ice River complex (albite-microcline perthite) **12:**224

#### Ontario

Perth (near) ("perthite," plagioclase lamellae in microcline) **13:**199p

#### United States

#### Arizona

Ray mine (twins to 5 cm) **14:**320

#### Nevada

Majuba Hill mine (acicular schorl replacing phenocrysts in rhyolite) **16:**70, **16:**71

#### New Jersey

Franklin/Sterling Hill (pumpellyite after) **10:**165q

#### New Mexico

Point of Rocks quarry, Colfax County (alkali feldspar) **15:**151

### FERBERITE

"Reinite," pseudomorphic after scheelite **12:**81–82p,d

Vs. wolframite, hübnerite **8:**393

#### Australia

#### New South Wales

Old 25 and Wolfram pipes, Kingsgate mines (massive) **16:**282

#### South Australia

Walleroo mines **19:**414

#### Bolivia

Calacalani (pseudo-cubic) **6:**137

Quechisla district, Potosí **25:**212p

San Miquel mine, Lequepalca district **6:**137

Santa Isabelle mine, Conde-Auque district **6:**137

#### Canada

#### British Columbia

Red Rose mine **2:**205n

#### China

Gejiu, Hunan (blades to 6 cm) **23:**267

#### Japan

Kimpuzan, Yamanashi ("reinite"; after scheelite, 5 cm) **8:**393–394q

#### Kazakhstan (formerly USSR)

Akschatau (bladed to 3 cm; some labeled "wolframite") **25:**61

#### Peru

Junin (4 cm twinned) **7:**188–189p

#### Portugal

Panasqueira mine ("wolframite" id as) **8:**393–394q,p

#### Uganda

Nyamulilo mine, Kigezi (micro euhedral) **12:**82p

#### United States

#### Colorado

Boulder County (numerous mines) (crystals to 25 mm) **7:**280

Nederland, Boulder County **17:**139–140p

Nugget mine, Gilpin County **7:**282, **7:**288p

### FERGUSONITE-(Ce), -(Nd), -(Y) and FERGUSONITE-BETA-(Ce), -(Nd), -(Y)

Metamict **4:**219

#### Brazil

#### Minas Gerais

Ferros **2:**12n

#### Canada

#### British Columbia

Monte Creek, Kamloops district **19:**333n

#### Ontario

Card quarry **13:**84

J. Gole quarry, near Madawaska: crystals to 7 cm **10:**155–156p; 5 cm crystals **13:**84, **13:**85p

#### Québec

Evans-Lou pegmatite (fergusonite-(Y); anhedral to 23 cm) **3:**72, **3:**74q

#### Madagascar

Locality not specified **18:**162n

#### Malawi

Mt. Malosa region (fergusonite-(Y); crystals to 2 cm) **25:**31–34q,p

GENERAL INDEX

**Sweden**  
Ytterby: 2:137–138h; yftsite and keiviyte after fergusonite-(Y) 18:368n

**United States**  
Colorado  
Little Patsy quarry, Jefferson County 21:429n

New Jersey  
Bemco mine, Sussex County (grains; meta-mict) 11:39

Texas  
Clear Creek pegmatite, Burnet County (masses, crystals) 8:90

Washington  
Washington Pass, Okanogan County 20:(152)

“FERRARISITE”

**France**  
Gift mine, Ste. Marie-aux-Mines 19:(256)

FERRAZITE

*Species status uncertain*

**Brazil**  
Minas Gerais  
Tejucana mine, Diamantina 2:10n

FERRI-ANNITE

**South Africa**  
Cape Province  
Kalahari manganese field 22:284n

FERRICOIAPITE

**Australia**  
Queensland  
Mt. Isa mine (post-mining) 19:480–481p

**United States**  
Arizona  
Campbell shaft, Bisbee (post-mining) 24:429

Utah  
Dexter No. 7 mine, Emery County 19:(117), 19:333n

FERRIDRAVITE

**Bolivia**  
San Francisco mine, Cochabamba (announced) 11:111h,q,c

**Brazil**  
Minas Gerais  
Resplendor (flattened, to 5 cm) 21:253n

FERRIERITE

Three world localities 3:234n

**Australia**  
New South Wales  
Kembla Grange 6:251n  
Unanderra quarry 19:393–394p,c

Victoria  
Phillip Island 12:(108), 19:454  
Pyramid Rock, Phillip Island 19:458p, 19:460q  
Red Cliff Head, Phillip Island 19:454

**Canada**  
British Columbia  
Afton mine, near Kamloops (micro, on copper) 22:384n  
Kamloops Lake: ball of radial laths 14:367–368p; discovery 3:233–234h,p

**United States**  
Arizona  
New Cornelia mine, Pima County 14:295

California  
Agoura, Los Angeles County 1:114–115, 8:433n

FERRIMOLYBDITE

**Australia**  
New South Wales  
Glen Innes (euhedral micro) 12:110n  
Old 25 pipe, Kingsgate mines 16:286–287p

South Australia  
Moonta mines 19:(412)

**Chile**  
Chuquicamata 9:330

**United States**  
Arizona  
Bisbee district (unconfirmed) 12:(315)  
Lavender pit, Bisbee 24:429n

Idaho  
Sawtooth batholith (powdery) 24:194, 24:195

Nevada  
Gatchell mine, Humboldt County 19:253  
Outlaw mine, Nye County (coatings) 22:180

New Mexico  
Smokey Bear claims, Lincoln County (coating) 22:363

FERRINATRITE

**Chile**  
Chuquicamata (fibrous; metasideronatrite after) 9:325

**Italy**  
Tuscany  
Cetine mine 15:29–30p

FERRISICKLERITE

Vs. sicklerite 6:201

**Brazil**  
Minas Gerais  
Alto Benedito pegmatite (replacing heterosite) 22:184n  
Telfrio mine 14:234

**United States**  
Alabama  
Williams pegmatites, Coosa County (massive) 6:69–72

South Dakota  
Tip Top mine 17:239

FERRITUNGSTITE

Seven localities 12:83–85h,q

**Portugal**  
Minho  
Borralha mine (octahedral to micro platy sixlings) 12:83–84p

FERRO-AXINITE

*See also Axinite*  
Axinite group nomenclature 11:13–15  
Forty-nine world localities listed 11:14–15

**Australia**  
Tasmania  
Colebrook Hill mine 19:385, 19:387p

**Brazil**  
Bahia  
Baixa da Brauna farm (crystals to 10 cm) 8:382–383q,p

**Canada**  
Ontario  
Dome mine, South Porcupine 8:(517)

**France**  
Le Bourg d’Oisans, Isère (gemmy to 3 cm) 21:249

**Russia (formerly USSR)**  
Paiva, Polar Urals (clear euhedral to 7 cm) 23:279p, 23:280  
Pouyva mine, near Saranpaul, Polar Urals 23:495, 25:61

**United States**  
California  
Coarse Gold (near), Madera County 13:(293)  
Jensen quarry, Riverside County (to 15 cm) 15:276–277, 15:278p  
New Melones Lake spillway, Calaveras County: 18:434n; clear crystals to 8 cm 13:296–302p,d,q

Montana  
Jefferson County 20:390

New Jersey  
Oxford quarry, Warren County (crystals to 4 cm) 14:43–44p,c,q

FERROBUSTAMITE

**South Africa**  
Cape Province  
Wessels mine (felted tiny needles) 22:284

FERROCOLUMBITE

*See also Columbite-Tantalite Series*

**Brazil**  
Minas Gerais  
Jaguaracu pegmatite (massive) 25:168

**United States**  
Colorado  
Crystal Peak area, Park/Teller counties (1–2 cm crystals) 16:228

Connecticut  
Gillette quarry, Middlesex County (to 2 cm) 23:25

Maine  
Mt. Mica, Oxford County 16:372n  
Pulsifer quarry, Androscoggin County 16:(375)

FERROHORNBLLENDE

**United States**  
California  
San Benito County (“barkevike”) 9:(113)

FERROPARGASITE

**Spain**  
Cala mine, Huelva 20:(145)

FERROSELITE

**United States**  
Utah  
Repete mine, San Juan County 24:(48)

FERROSTRUNZITE

**England**  
Cornwall  
Gravel Hill quarry, Perranporth 19:337n

**United States**  
Indiana  
Bethel Church fossil dig, Pike County 15:353–355p,q

FERROTANTALITE

*See also Tantalite; Columbite-Tantalite Series*

**Madagascar**  
Locality not specified (7 cm euhedral) 24:233p

FERROWYLLIEITE

**United States**  
South Dakota  
Old Mike mine, Custer County (id as wyllieite) 17:298n  
Victory mine, Custer County 17:298

FERSMITE

**Canada**  
British Columbia  
Aley carbonatite, Williston Lake 18:362n

**Italy**  
Lombardy  
Orcesco 8:292

**United States**  
California  
Himalaya dike system, San Diego County (massive; fl.) 8:469  
Little Three pegmatites, San Diego County 20:(106)

Colorado  
Gem Park ultramafic complex 7:95–96

North Carolina  
Foote mine, Cleveland County (epitaxial on columbite) 6:276–277h,q

FERVANITE

**Gabon**  
Mounana (velvety) 6:244n

## GENERAL INDEX

**United States**  
 Arizona  
 Monument No. 2 mine, Apache County  
**22**:(381)

**FIBROFERRITE**

**Chile**  
 Chuquicamata **9**:329

**Greenland**  
 Navarana Fjord (massive) **24**:G49

**Italy**  
 Tuscany  
 Cetine mine (some arborescent) **15**:30p

**Macedonia (formerly Yugoslavia)**  
 Allchar (fibrous) **24**:441

**United States**  
 Arizona  
 Shattuck shaft, Bisbee district (post-mining  
 crust) **12**:305

**FIEDLERITE**

**Greece**  
 Laurium area: **9**:(113); micro, in slag **7**:121

**FIJI**

Emperor mine, Vatukoula, Viti Levu **8**:391s  
 Undu mine, Nukundamu **11**:111–112s  
 Viti Levu **13**:394s

**FILLOWITE**

Locality not specified **20**:340, **20**:342q

**FINGERITE**

**El Salvador**  
 Izalco volcano **18**:(339)

**FINLAND**

Hitura **9**:113s  
 Luumäki, Kymi **23**:433s  
 Miessi River, Lappi **11**:303–305m,h,g  
 Mineral-Fundstellen: Skandinavien **7**:315b  
 Outokumpu mine **9**:113s  
 Sodankylä, Lappi **23**:433s  
 Sota River, Lappi **11**:303m,h,g  
 Tankavaara **13**:392s  
 Viitaniemi mine, near Eräjärvi **4**:123s, **4**:125s,  
**9**:113s  
 Ylammaa (near) **24**:389s

**FISCHESSERITE**

Localities not specified **13**:392q, **13**:393h

**Canada**  
 Ontario  
 Texas Gulf orebody, Timmins **13**:(393)

**Czech Republic (formerly Czechoslovakia)**  
 Predborice (grains) **13**:393

**FIZELYITE**

**Czech Republic (formerly Czechoslovakia)**  
 Třebesko deposit (T-1 vein) (crystals to 1 mm)  
**22**:210–211p,q

**France**  
 Les Farges mine, Corrèze **13**:(267)

**Romania**  
 Herja (formerly Kisbánya) **13**:(374)

**FLEISCHERITE**

**Namibia**  
 Tsumeb: **6**:251, **8**:(390); fibrous, some cobaltian  
**8**:T24, **8**:T84p; needles to 15 mm **13**:138p,  
**13**:144

**FLETCHERITE**

**United States**  
 Missouri  
 Fletcher mine, Reynolds County (announced)  
**9**:39h,q

**FLINKITE**

**Sweden**  
 Harstigen mine, Värmland **1**:164n, **22**:(49)

**FLORENCITE-(Ce), -(La), -(Nd)**

**Brazil**  
 Minas Gerais  
 Tejuca mine, Diamantina **2**:12n

**United States**  
 California  
 Sausalito (south of), Marin County (florencite-  
 (Nd); powdery) **2**:166–168q

**FLORIDA**

Bibliography of locality literature **18**:215  
 Bibliography of mineralogy literature **10**:17  
 Clear Springs mine, Bartow, Polk County **13**:40–  
 41s  
 Florida Limestone quarry, Hernando County  
**12**:182–183s

**FLUCKITE**

**United States**  
 New Jersey  
 Franklin/Sterling Hill **19**:(274)  
 Ogdensburg, Sussex County **18**:360n

**FLUELLITE**

**Australia**  
 Queensland  
 Wolfdene **12**:106–107  
 South Australia  
 Moculta quarry, Angaston **12**:106–107p  
 Port Clinton (near) **12**:107  
 St. Johns quarry, near Kapunda **12**:106–107  
 Tom's quarry, near Kapunda **12**:393–394

**England**  
 Cornwall  
 Stenna Gwyn (minute crystals) **4**:79

**Italy**  
 Tuscany  
 Pereta mine **15**:20, **15**:21p

**Sweden**  
 Leveäniemi iron mine, Norrbotten **20**:344p,  
**20**:346

**United States**  
 North Carolina  
 Carolina Pyrophyllite mine, Randolph County  
 (crystals to 4 mm) **8**:392–393d,q

Utah  
 Tuscarora mine, Rich County **24**:48n

**FLUOBORITE**

**Canada**  
 Ontario  
 Cardiff Uranium mine **13**:74n, **13**:225  
 Crystal Lake Road, south of Kinmount (crystals  
 to 2 cm) **13**:223, **13**:225p  
 Minden **13**:74n, **13**:(223)  
 Wilberforce **13**:74n, **13**:(111), **13**:(223)

**South Africa**  
 Transvaal  
 Palabora Open Pit **19**:203n

**United States**  
 California  
 New Method mine, San Bernardino County  
 (micro quartz on acicular) **10**:298p  
 New Jersey  
 Edison quarry, Sussex County (rough crystals  
 to 10 cm) **6**:174–175p,q

**FLUOCERITE-(Ce), -(La)**

**United States**  
 Colorado  
 Little Patsy quarry, Jefferson County (nod-  
 ules to 5 cm) **21**:429–430q  
 South Platte district, Jefferson County  
**20**:(389–390)  
 Montana  
 Snowbird mine, Mineral County (fluocerite-  
 (Ce); grains) **8**:85  
 New Hampshire  
 Carroll County **20**:391

**FLUORAPATITE**

*See also Apatite Group*  
 Apatite group nomenclature **8**:78–82q  
 In pegmatite environments (geochemistry, etc.)  
**4**:108

**Afghanistan**  
 Panzher Valley (color-zoned) **24**:384n

**Australia**  
 South Australia  
 Burra Burra mine (prismatic to 5 mm) **25**:127  
 Moonta mines **19**:414  
 Wallaroo mines **19**:414

**Austria**  
 Knappenwand, Salzburg **17**:178q

**Bolivia**  
 Chambillaya mine, near Quime (pink to 3 cm)  
**10**:139  
 Llallagua (colorless tabular to 5 cm) **13**:235n

**Brazil**  
 Bahia  
 Capim Grosso (dark blue) **22**:287n  
 Minas Gerais  
 Almerindo mine (dark green to 1 cm) **24**:384n  
 Campolina mine (Campolina farm), Medina  
 County **18**:244n, **18**:365–366n,p  
 Córrego do Urucum pegmatite **17**:309  
 Córrego Frio mine **14**:233  
 Galiléia **20**:394  
 Golconda mine (blue, purple to 1 cm) **24**:49n  
 Governador Valadares (near) (bright lilac to  
 1 cm) **23**:432n  
 Jaguarçu pegmatite (anhedral; acicular)  
**25**:168  
 Toca da Onça mine (15 cm euhedral) **13**:27  
 Virgem da Lapa (near) **13**:27  
 Zé Pinto mine: **21**:405–408p; green pris-  
 matic to 6 cm **21**:253–254p

Paraíba  
 Alto Benedito pegmatite (3 mm white prisms)  
**22**:185q

Rio Grande do Norte  
 Capoeira (Boqueirãozinho) pegmatite (blue  
 tabular) **21**:487p, **21**:488n

São Paulo  
 Jacupiranga mine: fragile blades **15**:268; ra-  
 dial aggregates **15**:265

**Canada**  
 Ontario  
 Canoe Lake (7 cm blue) **13**:73n, **13**:75p  
 Comet mine (giant green crystals) **23**:459–  
 462p  
 Davis Hill (green prismatic to 10 cm) **21**:244p  
 Foymont, Renfrew County **19**:(334)  
 Lake Clear, Renfrew County area: **13**:202,  
**13**:210, **13**:213; red crystals to 300 kg  
**13**:73  
 Numerous localities **13**:73n  
 Smart mine, Renfrew County **19**:(334)

Québec  
 Mt. St-Hilaire (prismatic to 6 mm) **21**:309–  
 310  
 Sherbrooke area roadcuts **20**:216–217p,d,c  
 Windsor, near Sherbrooke **18**:(363)  
 Yates mine, Otter Lake: **18**:365n, **19**:(334);  
 prismatic, red to 18 cm, green to 7 cm  
**12**:361–362p

Yukon  
 Rapid Creek area (white, lavender; tabular,  
 prismatic to 2 cm) **23**:Y20–21p,d,c

**England**  
 Cornwall  
 Botallack district (small prismatic) **24**:280  
 Longdowns **20**:395  
 Merseyside  
 Thurstaston (acicular) **21**:492n

- Germany**  
 East Germany  
 Ehrenfriedersdorf **19**:217p  
 Rheinland-Pfalz  
 Laacher See area, Eifel district (fluorapatite-chlorapatite) **8**:319d
- Italy**  
 Tuscany  
 Fantiscritti quarry **18**:286–287c,p,d,q
- Kazakhstan (formerly USSR)**  
 Akschatau (blue doubly terminated) **24**:394n
- Mexico**  
 Durango  
 Ojuela mine **14**:57n
- Namibia**  
 Karibib  
 Otjua mine (blue/purple zoned) **23**:435n
- Norway**  
 Øyna, Froland (gray-green) **22**:391n
- Pakistan**  
 Nagir, Hunza **20**:397  
 Skardu road, near Dusso, Gilgit Division (pink crystals to 3 cm) **16**:404–405p,c
- Peru**  
 Locality not specified **20**:398
- Russia (formerly USSR)**  
 Puj Va, Ural Mountains **24**:(52)  
 Slyudyanka, near Lake Baikal (green, to 4 cm) **24**:236
- South Africa**  
 Transvaal  
 Artonvilla mine **22**:197n
- United States**  
 Arizona  
 Four Peaks amethyst deposit, Maricopa/Gila counties (micro tabular) **7**:74, **7**:76p  
 New Cornelia mine, Pima County (euhedral to 12 mm) **14**:295  
 California  
 Himalaya mine, San Diego County (blue to pinkish) **16**:421p, **16**:423  
 Kalkar quarry, Santa Cruz County (grains) **17**:323  
 Little Three pegmatites, San Diego County **20**:120p, **20**:121–123q  
 Colorado  
 Italian Mountain area, Gunnison County **15**:86n  
 Connecticut  
 Gillette quarry, Middlesex County (brilliant yellow fl.) **23**:25, **23**:26p  
 Strickland quarry, Middlesex County (deep purple to 5 cm) **8**:330  
 Idaho  
 Sawtooth batholith (pink, purple to 1.5 cm) **24**:194  
 Maine  
 Bennett quarry (small green prismatic, spherical) **25**:179q, **25**:180p  
 Emmons quarry, Oxford County **25**:377n  
 Havey quarry, Androscoggin County **16**:375n  
 Martin prospect, Oxford County (blue) **24**:382n  
 Mt. Marie, Oxford County (purple) **16**:(374)  
 Mt. Mica **16**:372n  
 Mt. Rubellite pegmatite, near Hebron: 1.3 cm equant purple **25**:378p, **25**:380n; purple **17**:342n; purple to 2.5 cm **21**:483  
 Newry area (various colors, to 10 mm) **6**:197p, **6**:198  
 Pulsifer quarry, Androscoggin County: **8**:330; after elbaite **8**:76; gemmy purple, "Roebbling Apatite" **8**:72–76d,p,c; "royal purple" **16**:374–375, **16**:377p  
 Wade quarry (west of), Androscoggin County (purple to 3 cm) **24**:382
- Massachusetts  
 Acushnet, Bristol County **19**:332n
- Nevada  
 Northumberland mine, Nye County (minute white balls) **16**:40
- New Jersey  
 Buckwheat open pit, Franklin (micro) **14**:185p,d  
 Franklin/Sterling Hill **19**:274n
- New Mexico  
 Phelps-Dodge mine, Grant County **20**:58n
- South Dakota  
 Hugo mine, Pennington County (crystal est. to weigh 500 kg) **4**:108n  
 King Lithia mine, Pennington County (tabular, zoned blue/white; also complex purple) **15**:361–366p,c,d,q  
 Tip Top mine **17**:239
- Wales**  
 Gwynedd  
 Prenteg (micro colorless, complex morphology) **23**:397p,d
- FLUORAPOPHYLLITE**  
*See also Apophyllite Group*  
 Nomenclature revisions in the apophyllite group **9**:95–98h
- Canada**  
 Québec  
 Mt. St-Hilaire (tabular to 6 cm) **21**:310p
- India**  
 Nasik and Ahmen Nagar areas **9**:97p, **9**:98  
 Poona area: **9**:97p, **9**:98; green pyramidal **11**:27–28h; to 5 cm **11**:114–115
- South Africa**  
 Transvaal  
 Mooiooi mine **20**:398  
 Palabora mine (to 2 cm) **22**:258–259p,c,q
- United States**  
 Colorado  
 Table Mountain, Jefferson County **19**:161q, **19**:168–169p,c,d  
 Michigan  
 Keweenaw Peninsula (numerous localities) **23**:M65  
 Phoenix and Cliff mines, Keweenaw County (1 cm crystals) **23**:M65  
 New Jersey  
 Paterson area, Passaic County (crystals to 5 cm) **9**:174, **9**:177p  
 Three localities **9**:96–97p, **9**:98  
 New Mexico  
 Middle Fork, Gila River, Grant County/Catron County **20**:59n
- FLUOREDENITE**  
*See Edenite*
- FLUORESCENT MINERALS**  
 Albite, Italian Mountain, CO (red fl.) **15**:80  
 Anglesite (yellow fl.), Bunker Hill mine, ID **12**:342  
 Apatite, Harding mine, NM (yellow fl.) **8**:122  
 Aragonite: Bocchegiano mine, Italy (red SW fl.) **10**:284; Kalkar quarry, CA **17**:322; Sterling mine, NJ (intense yellow fl.) **25**:97  
 Barite: Brownedge, Derby, United Kingdom (yellow fl.) **14**:23; Elk Creek, SD **18**:128; Muddy Creek, CO **12**:80  
 Benitoite, Benitoite Gem mine, CA (blue fl.; varies) **8**:448  
 Beryl, Gillette quarry, CT (fl. blue-white, greenish blue) **23**:24  
 Calcite: Arbuckle Mountains, OK (white, orange fl.) **25**:385; Bedford, IN (fl. red) **22**:351; Gillette quarry, CT **23**:25; Kalkar quarry, CA **17**:322; Terlingua, TX (SW fl. blue, LW pink, phosph. blue) **21**:227  
 Calomel, Terlingua, TX (fl. brick red) **21**:228
- Cerussite, Fat Jack mine, AZ (fl. orange) **22**:25  
 Cookeite, Saline County, AR (fl. green) **22**:381  
 Datolite nodules, MI **15**:177  
 Dypingite, Snarum, Norway (blue fl., yellow-green phosph.) **2**:235  
 Esperite, El Dragón mine, Bolivia (fl. yellow) **21**:142  
 Fersmite, Himalaya dike system, CA (blue fl.) **8**:469  
 Fluid inclusions in fluorite, quartz, Asturias, Spain **23**:73, **23**:76  
 Fluoborite, Crystal Lake Road, Ontario (white fl.) **13**:223  
 Fluorapatite, Gillette quarry, CT (fl. brilliant yellow) **23**:25  
 Fluorescent Mineral Society **20**:323  
 Fluorite: Anabel Lee mine, IL (zoned cubes; interiors fl. yellow) **21**:483n; Arlós-Villabona, Spain (LW fl. yellow in zones) **23**:73; Derbyshire orefield, United Kingdom (red fl.; also lack of fl.) **14**:18; Gillette quarry, CT (fl. green) **23**:25; Wagon Wheel Gap, CO (role of REE in fl.) **24**:28q; Weardale, United Kingdom (rare earth elements in) **13**:12  
 Franklin, NJ, exhibit **19**:275  
 Genthelvitte, Mt. St-Hilaire, Québec (fl. green, SW and LW) **21**:311  
 Glauberite, Camp Verde, AZ (greenish phosph.) **14**:90  
 Griceite, Mt. St-Hilaire, Canada **18**:363  
 Gypsum, Willow Creek, Alberta (fl. yellow hour-glass zone) **24**:49n  
 Halite: Camp Verde, AZ (yellow fl.) **14**:90; Salton Sea, CA (yellow-orange fl.) **13**:42  
*Henkel Glossary of Fluorescent Minerals* **21**:497b  
 Hydrozincite: Mežica mine, Slovenia (strong fl.) **22**:104n; Sterling mine, NJ (blue-white fl.) **25**:100; Willett mine, British Columbia (pale blue fl.) **15**:92  
 Idrialite, Idria mine, Slovenia (formerly Yugoslavia) (fl. blue-white) **22**:207  
*Journal of the Fluorescent Mineral Society*, contributions solicited **6**:47–48  
 Leucophanite, Mt. St-Hilaire, Québec (pink fl.) **13**:245  
 Los Angeles County Museum of Natural History, new exhibit **21**:493  
 Mt. St-Hilaire, Québec, table of fluorescent and phosphorescent minerals **21**:349  
 Opal var. hyalite: Fat Jack mine, AZ (fl. brilliant green) **22**:26–27; Rib Mountain, WI **12**:95; Spruce Pine area, NC **10**:29–30; Urucum pegmatite, Brazil **17**:311  
 Pabstite, Kalkar quarry, CA **17**:323  
 Parakelydshite, Mt. St-Hilaire, Québec (fl. orange, SW) **21**:327  
 Polyolithionite, Mt. St-Hilaire, Québec (fl. yellow, SW) **21**:330  
 Powellite: Antofagasta, Chile (fl. yellow) **16**:147n; Kalkar quarry, CA **17**:323; minor Mo content can alter fluorescence **24**:362  
 Pyromorphite, Fat Jack mine, AZ (fl. orange) **22**:27  
 Quartz, Mt. St-Hilaire, Québec (zone in crystals fl. yellow) **21**:331  
 Scheelite, Knappenwand, Austria **17**:180n  
 Searlesite, Mt. St-Hilaire, Québec (bluish-green fl., SW) **21**:334  
 Sodalite: Davis quarry, Ontario (var. hackmanite; apricot fl.) **13**:86; Mt. St-Hilaire, Québec (orange, orange-red fl., SW) **21**:339  
 Spodumene var. kunzite, Urucum pegmatite, Brazil **17**:313  
 Sterling Hill Mining Museum underground exhibits, Ogdensburg, NJ **22**:3–4, **22**:372–375  
 Stevensite (tentative id), Wilberforce, Ontario **17**:339n

## GENERAL INDEX

- Stolzite: Black Pine mine, MT **23:48s**; Fat Jack mine, AZ (fl. peach-pink) **22:28**  
*Story of Fluorescence, The* **1:82b**  
 Thormasite, Mt. St-Hilaire, Canada **18:364**  
 Titanite, Sanford, ME (fl. yellow) **24:363**  
 Topaz, Sawtooth batholith, ID (fl. yellow core) **24:198**  
 Tourmaline (various colors and localities) **16:347**  
 Tugtupite: Kvanefjeld area, Greenland (red fl.) **24:625–627p**; Mt. St-Hilaire, Québec (deep red fl., SW and LW) **21:343**  
 Willemite: Mt. St-Hilaire, Québec (green fl. and ph., SW and LW) **21:346**; Tsumeb, Namibia **12:45n**  
 Zircon, Mt. St-Hilaire, Québec (yellow-orange fl., SW) **21:348**  
 Zunyite, Quartzsite, AZ **17:210n**
- FLUORITE**
- Fluorit (ExtraLapis No. 4)* **25:305b**  
 Theories on causes of color **13:30**
- Australia**
- Queensland  
 Mt. Isa mine **19:480**
- South Australia  
 Moonta mines **19:414**  
 Wallaroo mines **19:414**
- Tasmania  
 Hercules mine **19:385**  
 Mt. Cleveland mine **19:385**  
 Renison mine **19:385**
- Western Australia  
 Greenbushes tinfield (grains) **9:83n**
- Austria**
- Achselalm mine, Salzburg (large octahedrons) **17:106**  
 Bleiberg district (colorless) **17:363**  
 Hocharn (west side) (rose/purple) **17:106n**  
 Hohen Tauern power station galleries, Salzburg (rose/green) **17:106n**  
 Hopffeldboden, Salzburg **17:(106)**  
 "Prehnitinsel," Salzburg **17:(107)**
- Brazil**
- Bahia  
 Serra do Ramalho district (blue, with bubbles) **6:283n**
- Minas Gerais  
 Galiléia **20:394c**  
 Jaguarçu pegmatite (massive) **25:168**  
 Mantena: clear, complex phantoms **21:488n**; micro cube with octahedral phantom **24:311, 24:312p**  
 Ouro Preto region **20:228**
- Paraná  
 Bassetti prospect (breccia) **6:283n**
- Canada**
- British Columbia  
 Ice River complex (purple massive) **12:224**  
 Rock Candy mine, near Grand Forks (purple cubic, green octahedral to 13 cm) **12:99–101p**
- New Brunswick  
 Mt. Pleasant, Charlotte County **18:362**
- Northwest Territories  
 El Bonanza mine, Port Radium **20:203, 20:206p**
- Ontario  
 Bailey mine (green octahedral) **13:88**  
 Beaver mine, near Stanley **21:485n**  
 Coe mine (2 cm yellow cubic) **13:90**  
 Faraday (Madawaska) mine: **13:110p, 13:111n**; 1 cm emerald green octahedrons **13:83**  
 Highway 7 roadcut near Madoc (flattened green cuboctahedrons) **13:90h**  
 Highway 62 roadcut north of Bancroft (green, blue octahedral) **13:(111)**
- Keene mine (cubic, various colors, some optical quality) **13:88, 13:91c**  
 Kilpatrick mine (green cubic, octahedral) **13:88–89**  
 Madoc area mines **13:87–92p,c**  
 Noyes mine: with hydrocarbon **13:111n**; yellow, dark blue **13:89–90**  
 Perry and Perry Lake mines (green transparent) **13:89**  
 Rogers mine (green cuboctahedral, most optical quality, to 25 cm) **13:89, 13:90–91p**  
 Rossport (near) (purple, amber micro) **13:107**  
 Silver Islet mine **17:60n**  
 Steetley quarry, Dundas (micro) **13:112n**  
 Thunder Bay area (green, purple) **13:107n**
- Québec  
 Mt. St-Hilaire: dodecahedral **10:103**; various colors, habits to 2.5 cm **21:310**  
 Niobec mine, Chicoutimi (8 mm green cubes, yellow micro) **12:357**  
 Old Chelsea (near), Gatineau County (blue-green octahedral, epitaxial hexoctahedrons on corners, oriented purple inclusions) **12:103–104p,d,c**  
 Yates mine, Pontiac County (massive) **12:362**
- Yukon  
 Rapid Creek (small mauve crystals) **23:Y21n**
- China**
- Fujan (Fuyan), Hunan (various colors, glassy to 5 cm) **23:267, 23:270p**  
 Gejiu, Hunan (with ferberite) **23:267**  
 Leiyang, Hunan **20:69n**  
 Shang Bao, Hunan: **25:140n**; blue-green **24:49n**  
 Shangbu and Shangbaou mines, Hunan **25:140n**
- England**
- Cornwall  
 Pell mine (large crystals) **4:95**  
 South Crofty mine (massive) **4:95**  
 Trolvis quarry **4:95**  
 Wheal Jane **20:395**  
 Wheal Mary Ann (some chalcedony after octahedral) **4:95**
- Cornwall and Devon  
 Tin-tungsten deposits **4:94–95**
- Cumbria  
 Six localities (various colors; to 15 cm) **9:37n**
- Derby  
 Castleton (red fl.) **14:18**  
 Crich (purple, intergrown with pink barite) **14:18, 14:23**  
 Derbyshire orefield **14:18c**  
 Ladywash mine, Eyam (chalcopyrite in) **14:17p**  
 Rutland Cavern, Matlock Bath (aurichalcite on) **14:21p**  
 Treak Cliff, Castleton (banded, "blue john") **14:18, 14:20p**
- Durham  
 Black Dean (Blackden) mine **18:148n**  
 Blue Circle quarry (green twinned cubes) **24:394n**  
 Boltsburn mine (purple, green, amber cubes to 17 cm) **13:11–17p,c,q**  
 Cambockeels mine **25:44n**  
 Eastgate mine (green, purple zoning; twinned) **18:148n**  
 Fraziers Hush mine **20:395, 25:44**  
 Frosterley (Rogerly quarry) (green, fl. to 2 cm) **25:44–45p**  
 Weardale area **19:115n**  
 West Pastures mine (yellow) **18:148n**
- France**
- Avellan mine, Massif de L'Esterel (green) **17:340n**  
 Buxier-Les-Mines, Allier (yellow, purple spheres) **24:234**
- Chamonix, Haute-Savoie (pink octahedral to 2 cm) **13:30, 21:174p**  
 Chillac quarry, Vienne (red-tinted) **23:434n**  
 Côte d'Abot, Puy de Dôme (inky blue cubes; purple octahedra overgrown by blue cubes) **23:434**  
 Font Sante mine, Var (various colors; some "prehnite-like" habit) **8:308–310p**  
 Font Sant, Var **20:300**  
 Le Bure, Tarn **19:336n**  
 Les Farges mine, Corrèze **13:(267)**  
 Mont Blanc, Haute-Savoie: **19:113n**; 2.5 cm pink octahedral **15:118n**  
 Montroc mine, Tarn (clear blue) **23:434n**
- France/Switzerland**
- Chamonix, Haute-Savoie (pink) **10:31n**  
 Mont Blanc region (pink octahedral to 2 cm) **9:132, 15:250**
- Germany**
- Baden-Württemberg  
 Wieden (near), Schwarzwald (cube with perfect hexoctahedral faces) **10:125p,c**
- Gräben, Striegau, Silesia (pink octahedral) **15:250n**
- Obersachsen  
 Erzgebirge (purple octahedral) **18:159n**  
 Freiberg (lilac cubes) **18:163n**
- Rheinland-Pfalz  
 Jucken quarry, Fischbachtal **20:147**  
 Laacher See area, Eifel district (spherulites) **8:315**
- Greece**
- Locality not specified **9:134n**  
 Kamaréza mine, Laurium **7:117ff**
- Greenland**
- Kangerluarsuk (colorless, white dodecahedral to 7 mm) **5:124**  
 Narsarsuk (dodecahedral, cuboctahedral) **5:121–122**  
 Randbøldal area (violet, white; purple, red due to radiation) **24:G49**
- Italy**
- Lombardy  
 Baveno area (various habits, colors to 7 cm; some green in sunlight, violet in incandescent light) **14:163c**
- Sardinia  
 Domusnovas (1 cm purple cubes) **15:371–372n**  
 Santa Lucia fluorite mine (various colors, habits) **15:372**
- Tuscany  
 Campiano mine, Boccheggiano district **18:366n**  
 Cetine mine (violet) **15:30p**  
 Gioia quarry, Carrara region: **18:279–280p,c**; some elongated **18:279c,d**  
 Pereta mine (colorless) **15:20**
- Japan**
- Obira mine, Kyushu (3 cm pink octahedral) **13:30**
- Kazakhstan (formerly USSR)**
- Akschatau: purple octahedral **24:394n**; sharp octahedral purple to 8 cm **25:47n**  
 Counrad (bertrandite after) **25:139p, 25:140n**  
 Kara-Oba: cubes in octahedral orientation **25:139p, 25:140**; green octahedral to 4 cm **23:84**
- Korea**
- Taewha mine, near Chonju (green to 103 mm) **10:136**
- Mexico**
- Chihuahua  
 El Potosí mine, Santa Eulalia (cubo-hexoctahedral to 3 mm) **23:435n**

- Naica: green to several cm, some gemmy **13:52**; on galena **20:75**; pale green octahedral to 5 cm **15:177**; purple tabular, odd morphology **16:304n**; some deep blue **14:385**; small cubes stacked into octahedrons **3:228–230p**
- Santa Eulalia (colorless 1.5 cm spheres) **21:257n**
- Durango**
- Guadalupe mine (purple, white crust on one surface) **15:117n**
- La Nora mine (uncertain locality; water clear cubes to 23 mm) **22:217n**
- Muzquiz (purple-black to 5 cm) **24:395n**
- Mongolia**
- Berche (black, pink octahedral) **23:85**
- Morocco**
- El Hamman: **19:337n**; green cubic **21:97n**
- Namibia**
- Okarusu (Okarusa): **20:70n**, **20:396**; green and purple **15:313n**; purple-blue-green **24:237**
- Tsumeb: locality often mistaken **9:44**; some trapezohedron faces **8:T24–25**, **8:T58p**
- Nigeria**
- Plateau State **20:397**
- Norway**
- Gjerdingen, Nordmarka region (complex micro) **11:83p**
- Kongsberg (purple, green octahedral) **17:34n**
- Pakistan**
- Chumar, Nagar (flattened pink) **24:52n**
- Gilgit Division **19:338n**
- Locality not specified (fine pink, green octahedral/dodecahedral) **23:436n**
- Nagir, Hunza **20:397**
- Stak Nala (loose green octahedrons) **16:404–406p,c**
- Peru**
- Huanzala mine, Huanuco: comparison with Swiss specimens **12:187**; green octahedral to 10 cm, pink to 5 cm **13:29–30p,c,q**; pink octahedral to 2.5 cm **12:#3p** (cover photo), **12:177p**, **12:181**
- Portugal**
- Panasqueira mine (various colors to 2 cm) **2:76c**
- Russia (formerly USSR)**
- Dal'negorsk: **24:226n**; green octahedral **9:367n**; 35 cm partial cube **24:234n**; transparent cubes to 6 cm **24:42**, **24:389n**, **25:63p**
- Sverdlovsk area (?) **20:75n**
- South Africa**
- Transvaal
- Zaaiplaats tin mine (21 cm octahedral crystal) **18:193n**
- Spain**
- Arlós-Villabona district (yellow; fl. zones) **23:73**
- Asturias region **23:69–76p**
- Berbes mine, Asturias: **20:72n**; purple, blue, zoned **23:73c**; purple cubes to 2 cm **12:180p**, **12:182n**; violet **18:301n**
- El Papiol quarry, Barcelona **18:301n**, **19:122n**, **20:72n**
- Emilio mine, Caravia-Berbes district: colorless, blue **23:73**; temperature-sensitive **23:84**
- La Cabaña, Berbes: **23:71p**; purple cubes to 2 cm **25:48p**, **25:50n**
- La Collada: **20:72n**; blue, purple, modified **23:73**; deep blue **18:301n**; dodecahedral modifications **18:(409)**
- La Viesca mine: **23:73**; blue cubes to 8 cm **23:495**; to 10 cm **24:236**
- Moscona mine, Arlós-Villabona district: honey-colored **18:301n**; pyrite aligned on phantom edges **23:71p**, **23:75p**
- Oviedo (near) (yellow to 2 cm) **9:57**
- San Lino and Jaimina mines, Caravia (blue, purple) **23:73**
- Tirollesa mine, Guadalupe (colorless, violet) **23:245**
- Villabona mine, Arlós-Villabona district (clear to 2 cm) **23:436n**
- Switzerland**
- Cavradi **19:338n**
- Fibbia, Uri **9:132n**
- Göscheneralp region, Uri (pink octahedral to 3 cm) **9:132**
- Grimsel Pass **19:338n**
- Ziggenstock, Grimsel Pass **20:146**
- Thailand**
- Chiang Mai province: **18:368n**; coating stibnite **18:245n**
- United States**
- Alaska
- Kuiu and Zarembo islands **19:113n**
- Arizona
- Bisbee district **12:305**
- Campbell shaft, Bisbee district (green cubic) **12:305**
- Grand Reef mine, Graham County **11:223**
- Hesson mine, La Paz County (blue-green octahedral) **21:481n**
- Iron Cap mine, Graham County **19:(87)**
- Magma mine **14:(82)**
- Mammoth mine, Pinal County (colorless cubic to 12 mm) **11:160d**
- McCrackin mine, Mohave County (zoned purple) **15:112p**
- Plumos Mountains, Mohave County (green in daylight, colorless in artificial light) **6:62**
- Red Cloud mine, La Paz County (micro cubic) **11:149**
- Rowley mine, Maricopa County (micro crystals) **5:14ff**
- Tombstone district, Cochise County **20:75n**
- California
- Blue Bell mine, San Bernardino County (micro colorless) **8:495**
- Essex mine, Inyo County (purple) **15:14n**
- Felix mine, San Bernardino County (green stepped cubes) **24:394n**
- New Method mine, San Bernardino County (dark purple, with boltwoodite) **16:150**, **16:151p**
- Thompson mine, Inyo County (purple masses) **15:14n**
- Colorado
- American Tunnel (Sunnyside) mine, San Juan County: green **14:(243)**, **14:248p**; green octahedral, cubic, dodecahedral **7:302**
- Black Hawk tunnel, Rico district **16:213n**
- Blaine tunnel, Rico district (bluish green octahedrons) **16:215p**
- Camp Bird mine, Ouray County (2 cm white cubes) **14:145p**
- Cañon City, Fremont County: botryoidal purple **14:55p**, **14:56**; purple botryoidal **12:183n**
- Climax mine, Lake County (numerous colors, habits) **7:283p**, **7:286–287**, **7:292p**
- Crystal Peak area, Park/Teller counties (cuboctahedrons with purple dodecahedron phantoms) **16:219p**
- Eureka (near), San Juan County (complex, pale green gemmy) **18:432**
- Express mine, Saguache County (green octahedral) **7:296**
- Fortuna and Duncan prospect, Dolores County **16:215n**
- Grizzly Bear mine, Ouray County **19:93–94**, **19:96p**
- Hibernia tunnel, Rico district **16:(215)**
- Home Sweet Home (Sweet Home) mine, Park County: “bluebery” crystals **25:214n**; purple dodecahedral, pink octahedral **10:333**, **10:334p**; small purple cubes impaled on quartz **25:59n**; some orange **10:337**, **24:230**
- Indiana and Topeka-Kentucky Giant veins, Ouray County (spheres to 22 mm; micro dodecahedral, tetrahedral to 13 mm) **25:373–374p**
- Italian Mountain area, Gunnison County (purple anhedron) **15:86n**
- Longfellow mine, Ouray/San Juan counties **7:299–300p**, **7:302n**
- Mountain Monarch mine, Ouray County **19:92p**
- Mt. Antero, Chaffee County (octahedral) **10:341**, **10:344p**
- Pikes Peak batholith: **10:376–377**, **16:223c**, **16:224p**; numerous localities **5:185–188p**
- Rico Argentine mine, Rico district **16:215n**
- St. Peter’s Dome, El Paso County **5:187**
- San Juan Mountains **10:358n**
- Shavano Peak, Chaffee County (green octahedral) **12:367**
- Silverton area, San Miguel County (clear blue to 1 cm) **23:424n**
- Sweet Home mine, Park County (see Home Sweet Home mine)
- Ten-Percenter mine (Key-hole vug), Teller County (etched gray-green) **18:148–150**
- Urad molybdenum mine, Clear Creek County (green octahedral to 3 cm) **7:284n**, **7:287p**
- Yukon mine, Silverton district (green) **10:331**
- Connecticut
- Gillette quarry, Middlesex County (red crude to massive; fl. green) **23:25**
- Thomaston Dam, Litchfield County (micro subparallel cubes) **10:240**, **10:241p**
- Idaho
- Sawtooth batholith (granular, crude crystals) **24:194**
- Illinois
- Annabel Lee mine, Hardin County: zoned cubes, fl. interiors **21:483n**; purple, yellow, blue **17:147**
- Denton mine, Hardin County (purple) **18:148n**
- Gaskin mine, Pope County (blue, purple) **6:235–236p**
- Minerva #1 mine, Hardin County (with black hydrocarbon layer; some cubic-terminated “spikes”) **24:48**
- Iowa
- Pint’s Quarry, Raymond, Black Hawk County (brown cubes; fl.) **20:477–478p**
- Maine
- Sanford deposit, York County (massive) **24:362**
- Michigan
- Keweenaw Peninsula **23:M65**
- Ropes mine (near), Marquette County **17:(121)**
- Montana
- Snowbird mine, Mineral County (masses to 30m) **8:85**
- Nevada
- Getchell mine, Humboldt County (clear to violet cubes) **16:17**
- Majuba Hill mine: micro cubic **24:178**; pods, crude cubes **16:71**
- Montgomery Pass area, Mineral County (color zoned) **18:360n**
- Outlaw mine, Nye County (embedded, to 4 cm) **22:180**
- New Hampshire
- Blue Mountain, Carroll County **20:390–391**
- Government pit, Carroll County (4 mm colorless cuboctahedral) **14:48**

## GENERAL INDEX

- Wise mine, near Westmoreland: **20**:(391); green octahedral to 7 cm **22**:383
- New Jersey**  
Buckwheat open pit, Franklin (micro) **14**:187  
Franklin/Sterling Hill **19**:274n
- New Mexico**  
Blanchard claims, Socorro County **19**:332n  
Bobbi Dee mine, Sierra County **20**:60n  
Catron County **20**:47  
Cook's Peak, Luna County **20**:50  
Grant County **19**:332n  
Hansonburg district, Socorro County **20**:35p, **20**:38p, **20**:39  
Harding mine (grains) **8**:124  
Lemitar Mountains, Socorro County **20**:61n  
Magdalena district, Socorro County **20**:20  
Pine Canyon deposit, Grant County **20**:47–50p,d  
Poison Canyon, McKinley County (uranian) **20**:63n  
Red Cloud mines, Lincoln County: **20**:(61); massive, micro crystals **11**:69  
Smokey Bear claims, Lincoln County (green octahedral to 17 mm; also beige colloform) **22**:363  
Stephenson-Bennett mine, Dona Ana County: **20**:29p; cleavages **4**:33  
T & G prospect, Grant County (green/purple octahedrons) **18**:361n  
Tres Hermanas Mountains, Luna County **20**:(57)
- Ohio**  
Duff quarry, Logan County **18**:392p  
Lime City, Wood County (brown) **18**:361n  
Suever Stone Co. quarry, Van Wert County (acicular) **18**:361n
- Pennsylvania**  
French Creek mine (micro crystals) **25**:115  
Phoenixville **20**:379–380  
Wheatley mine **20**:379–380
- Rhode Island**  
Johnston, Providence County (micro cubes, various colors, some phantoms) **1**:55c
- Tennessee**  
Elmwood mine, Smith County: **9**:36, **20**:(391); cubic to 25 cm, various colors, poss. epitaxial on galena **9**:216–217, **9**:217–218p  
Jefferson City (near), Jefferson County (purple, subparallel cubes to 2.5 cm) **3**:90–91p
- Texas**  
Clear Creek pegmatite (purple, some yttrian) **8**:90  
Little 38 mine, Brewster County (calcite after) **21**:228n  
Terlingua district (colorless cubes) **21**:230
- Utah**  
Deer Trail mine, Piute County: **13**:127; pale green to 3 cm **25**:59n; 2 cm green dodecahedral with cube faces **12**:389p
- Wisconsin**  
Rib Mountain, Marathon County (etched; purple color fades in sunlight) **12**:96
- Wyoming**  
Colorado border (near), Jackson County (botryoidal) **21**:485n  
Wah Wah Mountains (coatings, micro crystals) **10**:271, **10**:276–277
- 
- FOGGITE**
- Australia**  
Western Australia  
Milgun Station **8**:(390), **8**:(517)
- 
- FORNACITE**
- Australia**  
New South Wales  
Kintore opencut, Broken Hill (vauquelinite-fornacite) **19**:433, **19**:434p
- Iran**  
Seh-Changi deposit (micro crystals) **11**:296
- United States**  
Arizona  
Four localities **11**:265n  
Mammoth mine, Pinal County (crystals) **11**:162p, **11**:168–169h  
New Water Mountains, Yuma County **14**:(119)  
Old Yuma mine, Pima County **14**:107n  
Shattuck shaft, Bisbee district (minute crystals) **12**:305  
Nevada  
Killie mine, Elko County **18**:417p–418
- 
- FORSTERITE**
- Australia**  
Western Australia  
Argyle and Ellendale mines **21**:562n
- Austria**  
Totenkopf, Salzburg (gemmy, “peridot”) **17**:(107)
- Brazil**  
São Paulo  
Jacupiranga mine: **15**:265q; micro twinned crystal **16**:148p; serpentine after **15**:266;
- Canada**  
Québec  
Notre-Dame-du-Laus **19**:334n  
Parker mine, Notre-Dame-du-Laus: euhedral to 10 cm **24**:371–373c,d,p,q; subhedral **25**:214
- China**  
Locality not specified (gemmy subhedral to 3 cm) **25**:219
- Egypt**  
Zabargad (St. John's Island), Red Sea: **18**:161n, **22**:52; gemmy “peridot” **7**:310–314d,h,q,p,c
- Myanmar (formerly Burma)**  
Pyaung Gaung (gemmy, “peridot”) **25**:377, **25**:378p
- Norway**  
Almklovdal, Møre Og Romsdal (gemmy crystals to 5 cm) **22**:52  
Dypingal, Snarum (serpentine after 15 cm crystals) **22**:52
- United States**  
Arizona  
New Cornelia mine, Pima County **14**:(295)  
Sacramento Hill area, Bisbee district **12**:305  
Spray shaft, Bisbee district (small euhedral) **12**:305  
California  
Jensen quarry, Riverside County (grains) **15**:288n  
Kalkar quarry, Santa Cruz County (colorless grains) **17**:324  
Colorado  
Italian Mountain area, Gunnison County (some nearly pure) **15**:86n  
Pennsylvania  
French Creek mine **25**:(119)  
Pennsylvania/Maryland  
Line pit, State Line district (remnants in thin sections) **12**:155
- 
- FOSHAGITE**
- South Africa**  
Cape Province  
Wessels mine (rosettes to 15 mm) **22**:284
- United States**  
California  
Crestmore quarry, Riverside County **9**:(113)
- 
- FOSSILS**
- Atacamite-encrusted mouse, prob. former USSR **24**:482p  
Azurite fossil replacements, Bisbee, AZ **12**:294  
Fossil skull replicas **17**:291–292  
Goethite replacing twigs, Bahia, Brazil **16**:112n  
Holocene-age log, Ray copper mine, AZ **14**:318  
*Homo Rhodesiensis* skull and various animals, Broken Hill, Zambia **11**:339–340, **11**:344–345  
Human (pre-Columbian), Camp Verde salt mine, AZ **14**:86–87  
Malachite after crinoid stems, Magdalena district, NM **20**:21  
Opal after gastropod, Coober Pedy, Australia **19**:466  
Petrified wood, Netherlands **18**:432  
Pine cone embedded in native copper **10**:31  
Pteradactyl, full-scale flying model of **18**:150  
Pyrite after pelicycops, IN **18**:360  
Pyritized fossils, Bisbee, AZ **12**:310  
Quartz after coral, Pint's quarry, IA **20**:478  
Silver after fish, Harz Mountains, Germany **19**:24  
Sphalerite replacing ostracods, Chapada do Araripe, Brazil **6**:287n
- 
- FOURMARIERITE**
- Zaire**  
Shinkolobwe mine **9**:34, **20**:280p,d,c
- 
- FRAIPONTITE**
- Namibia**  
Tsumeb (coatings, scales) **13**:139
- United States**  
Arizona  
Defiance and/or Silver Bill mines, Cochise County (chrysocolla, turquoise id as) **14**:131–132q  
Silver Bill mine, Cochise County (cuprian) **16**:(153)  
New Mexico  
Blanchard claims, Socorro County **20**:39–40q
- 
- FRANCE**
- Aiguilles de Glaciers, Mont Blanc massif, Haute-Savoie **23**:434s  
Alpe-Maritimes **8**:67b, **19**:126b  
Alsace region (adjacent parts of Haut-Rhin, Bas-Rhin, and Vosges) **17**:389  
Angervilliers (near), Essone **22**:390s  
Ariège **19**:126b  
Avellan mine, Masif de L'Estere, Var **17**:340s  
Bourg d'Oisans, Isère **8**:287s, **8**:403–404, **11**:14s, **20**:300s, **21**:249s, **25**:50s  
Buxier-Les-Mines, Allier **24**:234s  
Cabrerets, Lot **20**:395s  
Cantal **8**:43–45b  
Cap Blanc Nez, part of Cap Gris Nez, Pas-de-Calais **7**:179–181s, **9**:57, **11**:28, **17**:340s  
Cap Garonne mine, Cap Garonne, Var **23**:434s, **25**:209s  
Cap Gris Nez, near Calais, Pas-de-Calais **11**:28  
Carriere Quilly, La Villeder, Morbihan **23**:434s  
Celtic Age gold mine, Vaulry, Haute Vienne **23**:434s  
Central Massif region **13**:362s  
Chamonix, Haute-Savoie **10**:31s, **21**:174  
Chanteloube **4**:112  
Charrier, Allier **8**:391s  
Chessy les Mines, Chessy, Lyons **11**:28s  
Chessy, Lyons: **2**:69–72h,m,g, **4**:4, **15**:146s; dumps closed to collecting **5**:97h  
Chillac quarry, Vienne **23**:434s  
Col de la Madeleine massif, de la Lausière, Savoie **23**:434s  
Cornille, northwest of Le Bourg d'Oisans, Isère **11**:14s  
Corréze **10**:189s

## GENERAL INDEX

Costabonne, Pyrenees-Orientales **25:210s**  
 Côte d'Abot, Olloix, Puy de Dôme **23:434s**  
 Côte du Nord **8:67b**  
 Duranus, Alpe-Maritimes **8:390s, 15:89s**  
 Espallion, Aveyron **19:337s**  
 Finistère **8:67b**  
 Fontainebleau, Seine-et-Marne **18:408s**  
 Font Sante mine, Esterel region, near Cannes, Var  
**8:308–311h,g,m, 14:179s, 20:300s**  
 Four la Brouque, Puy de Dôme **19:337s**  
 Gabe Gottes mine, Rauenthal, Ste. Marie-aux-  
 Mines, Alsace region **8:390s, 8:391s, 19:256s**  
 Gebroulaz glacier, near Chalet du Saut, north of  
 Mondane, Savoie **11:108h, 14:179–180s**  
 Gergorie **19:337s**  
 Gift mine, Ste. Marie-aux-Mines, Alsace region  
**19:256s**  
 Glacier des Lanchettes, Massif Mont Tondu, Savoie  
**9:133s**  
 Haute-Garonne **19:126b**  
 Hautes Alpes **8:43–45b**  
 Ille-et-Vilaine **19:126b**  
*Inventaire Minéralogique de la France*: No. 3, 29-  
 Finistère; No. 4, 06-Alpes Maritimes; No. 5,  
 22-Côtes du Nord; No. 6, 81-Tarn **8:67b**  
*Inventaire Minéralogique de la France*: 05-Hautes  
 Alpes, 15-Cantal **6:43–45b**  
 Jas Roux, Haute Alpes **9:113s**  
 La Bertrande, Haute Vienne **12:83s**  
 La Combe de la Selle, St. Cristophe en Oisans,  
 Isère **24:223h,s**  
 La Floquerie, Loire Atlantique **9:113s**  
 La Gardette mine, near Bourg d'Oisans, Isère  
**13:363h**  
 Le Kaymer/Maymar (?), Aveyron **8:391s, 9:113–**  
**114s**  
 Le Main mine, Autun **9:194s**  
 Les Farges mine (Mine des Farges), southeast of  
 Ussel, Corrèze **9:132s, 11:29h, 13:261–**  
**268h,m,g, 18:160n, 18:408n, 23:84s**  
 Les Malines mine, St. Laurent le Minier, Gard  
**8:404h, 23:434s, 24:234s**  
 Lodeve, Haute Vienne (Herault?) **20:395s**  
 Lodève, Herault **18:365s**  
 Lot **19:126b**  
 Luzy, Saône et Loire **14:173s**  
 Maison Guignard la Balme, Commune d'Auris,  
 near Le Bourg d'Oisans, Isère **11:14s**  
 Margabal, Aveyron **13:33s**  
 Margnac **5:40–41s**  
 Mas d'Alery, Lodève, Herault **23:434, 25:210s**  
 Meymac, Corrèze **12:86s**  
 Mine de la Mure, near Bourg d'Oisans, Isère  
**8:404s, 20:483s**  
*Minerali Alpini e Prealpini* **7:315–317b**  
 Mont Blanc massif, Haute-Savoie **8:287s, 9:132s,**  
**15:118s, 19:113s, 23:434s**  
 Montebbras **4:125s**  
 Mont Mirat, Lozère **8:517s**  
 Montroc mine, Tarn **23:434s**  
 Mulhouse, Haut-Rhin **16:500s, 17:340s**  
 Periades Pics, Mont Blanc massif, Haute-Savoie  
**23:434s**  
 Provence **19:126b**  
 Puy St. Gulmier (near), Puy de Dôme **23:434s**  
 Queiras (uncertain locality) **22:390s**  
 Rabéjac quarry, south of Lodève, Herault **23:433–**  
**434s, 24:463–464, 25:209–210s**  
 Rancie, Ariège **9:113s**  
 Ranspach, Vosges **20:394–395s**  
 Rauenthal mine, Rauenthal, Ste. Marie-aux-Mines,  
 Alsace region **19:256s**  
 Ravin de Sans-Souci, Chantelguyon, Puy de Dôme  
**23:434s**  
 Rémuzat, Mirabeau district, Drôme **10:122s**

Rivieral mine, Lodève, Herault **23:433s**  
 Roc-Blanc, Cantal **9:113s**  
 Rocher de Armentiers, Isère **23:84s**  
 St. Christoph-en-Oisans, Isère **11:14s**  
 Ste. Marie-aux-Mines, Alsace region **17:6h,**  
**17:276h, 17:389–392**  
 Ste.-Lucie mine, Ste.-Légère de Peyre, Lozère  
**15:251s, 21:489, 22:216s, 22:225h, 23:269s**  
 St. Gobain mine, Sain Bel, Lyons **5:97h**  
 St. Laurent le Minier, Gard **21:489s, 23:434s**  
 St.-Maime, Alpes de Haute Provence **25:210s**  
 St.-Pons (near), northwest of Barcelonnette, Haut-  
 Provence **24:41–44g,m,p**  
 Salsigue gold mine, Auge **17:340s**  
 Tarn **8:67b**  
 Tremorius mine, near Luzenac, Ariège **22:225s,**  
**23:84s, 23:277s, 23:434s, 25:215s**  
 Tremouns quarry, Ariège **21:489n, 25:208–210s**  
 Val Croze, Gard **23:434s**  
 Vosges **9:114s**

### FRANCEVILLITE

**Gabon**  
 Franceville **8:(390)**  
 Mounana: **9:(113), 9:(114), 18:338p;** crystals  
 to 8 mm **6:238d, 6:240–245p,c,q**

**Zaire**  
 Musonoi mine **20:280**

### FRANCOISITE

**Bolivia**  
 Ichucollo mine, Oruro (euhedral to 1 cm) **6:133**  
 Oruro (numerous localities) **6:133, 8:(390)**  
 San José mine, Oruro **6:133n**

**United States**  
 California  
 Kalkar quarry, Santa Cruz County **17:321p**

### FRANCOISITE-(Nd)

**Zaire**  
 Kamoto-Est mine **20:280**

### FRANKLINITE

**Canada**  
 Québec  
 Francon quarry (on weloganite "pagodas")  
**15:111p**  
 Mt. St-Hilaire: **19:325n, 19:327p;** UK#43,  
 spheres of acicular **21:310p**  
 Poudrette quarry **25:210p**

### FRANKDICKSONITE

Toxicity **11:6**  
**United States**  
 Nevada  
 Carlin mine, Eureka County **16:47h**

### FRANKLINITE

**United States**  
 Arizona  
 Bisbee district (unconfirmed) **12:(315)**  
 New Jersey  
 Franklin: faked specimens **12:210p;** modi-  
 fied cube **17:136p**  
 Sterling Hill: **19:273;** sharp to 8 cm **23:277**

### FRANKLINPHILITE

**United States**  
 New Jersey  
 Franklin (newly described) **23:465–468h,q,p**

### FRANSOLETITE

**United States**  
 South Dakota  
 Tip Top mine **17:240q, 17:242p,c, 17:250,**  
**17:298c**

### FRANZENITE

**Italy**  
 Tuscany  
 Pitigliano (announced; prismatic to 1 cm)  
**9:115h,q**

### FREBOLDITE

**Germany**  
 Obersachsen  
 Hartenstein mine, Erzgebirge **9:(113)**

### FREIBERGITE

**Australia**  
 Northern Territory  
 Mt. Bonnie mine **19:(444)**  
 Queensland  
 Mt. Isa mine **19:480**

**Canada**  
 British Columbia  
 Highland Bell mine, Beaverdell **20:446**  
 Northwest Territories  
 Port Radium **20:(207)**

**France**  
 Les Farges mine, Corrèze **13:(267)**

**Spain**  
 Hiendelaencina district, Guadalajara (listed with  
 tetrahydrite) **23:249n**  
 Horcajo mines, Ciudad Real (micro crystals)  
**25:25**

**United States**  
 Arizona  
 Campbell shaft, Bisbee **24:429n**  
 California  
 Darwin mines, Inyo County **15:17n**  
 Monitor-Mogul district, Alpine County (tetra-  
 hydrite prob. id as; crystals to 3 mm) **22:36**  
 Colorado  
 Eagle mine, Eagle County **18:244n**  
 Home Sweet Home (Sweet Home) mine,  
 Park County **10:337**  
 Silverton district, San Juan County **10:358n**  
 Nevada  
 Eagle vein, Lander County **21:484n**  
 Northumberland mine, Nye County (mas-  
 sive) **16:40**

### FREIESLEBENITE

**Bolivia**  
 Oruro **23:84n**

**France**  
 Les Farges mine, Corrèze **13:(267)**

**Kazakhstan (formerly USSR)**  
 Dzhezkazgan **23:280n**

**Mexico**  
 Chihuahua  
 Batopilas district **17:(79)**

**Spain**  
 Verdad de los Artistas, Santa Cecilia mines,  
 Guadalajara (crystals to 2 cm) **23:245–**  
**248d,c,p,h**

**United States**  
 Colorado  
 San Juan Mountains **10:358n**

### FRENCH GUIANA

Map of gold occurrences **18:89m**

### FRESNOITE

**Canada**  
 Yukon  
 Gunn claim, near MacMillan Pass **17:(340)**

**United States**  
 California  
 Victor mine, San Benito County **9:(114)**



## GENERAL INDEX

### FRIEDELITE

#### Australia

New South Wales  
Broken Hill **12**:(110)

#### France

Costabonne, Pyrenees Orientales (micro) **25**:210p

#### South Africa

Cape Province  
Avontuur and Leinster basins **22**:(284)  
Kalahari manganese field **22**:284  
Middelplaats mine (gem-quality) **22**:284

#### United States

Colorado  
American Tunnel mine, San Juan County  
**7**:302n  
Sunnyside (American Tunnel) mine, San Juan  
County **10**:358n

#### New Jersey

Sterling Hill: **19**:274n; crystalline crusts  
**25**:100

### FRIEDRICHITE

#### Austria

Grossvenediger area **17**:(107)

### FRONDELITE

In pegmatite environments (rockbridgeite-fron-  
delite) **4**:113–114, **4**:118

#### Brazil

Minas Gerais  
Córrego Frio mine (nodules) **14**:233  
Jove Lauriano mine: **20**:(187); acicular **14**:235  
Laranjeiras mine **11**:379  
Pamaró mine, near Linópolis (after eospho-  
rite) **14**:235  
Sapucaia area **2**:(12)  
Telfrío mine **14**:(234)  
Zé Berto mine (masses, needles) **14**:236  
Paraíba  
Alto Benedito pegmatite **22**:185n

### United States

#### New Hampshire

Fletcher mine, Grafton County (rockbridgeite-  
frondelite; fibrous masses to 30 cm) **4**:113–  
114

#### South Dakota

Tip Top mine: rockbridgeite-frondelite, fi-  
brous masses to 30 cm **4**:113–114; rock-  
bridgeite-frondelite series **17**:240q, **17**:246

### FUKUCHILITE

#### Japan

Hanaoka mine, Akita-ken **8**:(517)

### FÜLÖPPITE

#### Romania

Delaul de Crucii, Baia Mare (micro crystals)  
**7**:140h

## GENERAL INDEX

- GABON**  
 Franceville, Mounana **8:390s**  
 Moanda (Mouanda) mine **8:390**  
 Mounana, north of Moanda, Haut-Ogoué **2:129s, 3:6s, 6:237–249h,g, 9:113s, 9:114s, 18:338s, 18:339, 20:278s**
- GADOLINITE-(Ce), -(Y)**  
 Metamict **4:220**  
**Austria**  
 Two localities **8:288, 8:289p**  
**Italy**  
 Lombardy  
 Arvogno, Val d'Ossola **23:435n**  
 Three localities **8:291**  
**Norway**  
 Dauren, Frigstad, Aust Agder (15 cm euhedral) **22:52p**  
 Hundholmen, Nordland **22:52n**  
**Sweden**  
 Ytterby, Stockholm **2:137–138h,p**  
**Switzerland**  
 Four localities **8:288**  
 Piz Rodadura, Grisons (micro crystal) **6:308–309p**  
**United States**  
 Texas  
 Baringer Hill quarry, Llano County (masses to 90 kg) **7:182**  
 Clear Creek pegmatite, Burnet County (15 cm crystal) **8:90**
- GAGARINITE-(Y)**  
**Norway**  
 Gjerdingen, Nordmarka region: **9:(114); micro euhedral 11:83–85p**  
 Oslofjord/Langesundsfjord region (sharp to 1 cm) **22:52n**  
 Oslo region **3:9p**
- GAGEITE**  
**South Africa**  
 Cape Province  
 N'Chwaning mine **23:(436)**  
 Wessels mine: **19:338n; fibrous 22:284**  
**United States**  
 New Jersey  
 Franklin **19:(274)**
- GAHNITE**  
**Australia**  
 New South Wales  
 Kintore opencut, Broken Hill **19:(428)**  
**Brazil**  
 Bahia  
 Boquira mine, near Oliveira do Brejinho (octahedra to 5 mm) **6:283**  
**Greenland**  
 Ivisártoq peninsula (grains) **24:15n**  
**United States**  
 California  
 Himalaya dike system, San Diego County (grains) **8:471**  
 Colorado  
 Grape Creek, Fremont County **18:432**  
 Maine  
 Fisher's Lodge, Sagadahoc County (id as microlite) **1:139**  
 Pulsifer quarry, Androscoggin County **16:(375)**  
 Wade quarry (west of), Androscoggin County (purple to 4 cm) **24:382**  
 New Jersey  
 Franklin **19:274n, 23:(499)**  
 Sterling Hill (minute crystals) **21:426q**  
 New Mexico  
 Harding mine (minute grains, crystals) **8:124**  
 Harding mine (near) **23:(425)**  
 La Madera Mountain, Rio Arriba County (micro octahedral) **22:384n**
- North Carolina  
 Stratford (west of), Alleghany County (25 mm crystals) **2:43**  
 Virginia  
 Independence (near), Grayson County (25 mm crystals; actually from Stratford, NC) **2:44**
- GAIDONNAYITE**  
 "α-catapleite" described as gaidonnayite **5:125–126h, 21:310–311h**
- Canada**  
 Québec  
 Mt. St-Hilaire: **10:104p, 13:246n; euhedral to 4 mm 21:310–311p,d; micro crystals 23:429n**  
 Poudrette quarry (micro euhedral) **25:210p**  
**Greenland**  
 Narssárssuk pegmatite ("α-catapleite" id as) **24:G45h**  
**Norway**  
 Langesund area quarries **23:(436)**
- GAITITE**  
**Namibia**  
 Tsumeb **13:139–140c**
- GALAXITE**  
**United States**  
 North Carolina  
 Bald Knob (southeast of), Alleghany County: micro grains **2:43; micro octahedral 12:170**  
 Locality not specified **8:(390)**
- GALEITE**  
**United States**  
 California  
 Searles Lake (some oriented on schairerite) **6:78–79c,d**
- GALENA**  
**Australia**  
 New South Wales  
 Broken Hill (rhodonite in) **19:273**  
 Kintore opencut, Broken Hill **19:(428)**  
 Old 25 pipe, Kingsgate mines **16:282p,c**  
 Northern Territory  
 Mt. Bonnie mine **19:(444)**  
 Queensland  
 Mt. Isa mine **19:480–481**  
 South Australia  
 Wallaroo mines (some twinned) **19:414**  
**Austria**  
 Bleiberg district (octahedral) **17:363p**  
 Knappenwand, Salzburg **17:178n**  
 Raibl, Bleiberg district (columnar) **17:(363)**  
**Brazil**  
 Bahia  
 Santo Antônio, Serra do Ramalho (cubes to 5 cm) **6:283n**  
 Minas Gerais  
 Énio pegmatite, near Galiléia (micro octahedral) **12:69**  
 São Paulo  
 Jacupiranga mine (traces) **15:265**  
 Pedreira Brancal (cubes to 5 cm) **6:283n**  
**Bulgaria**  
 Madan orefield (some crystals to 20 cm; others twinned, acicular, or skeletal) **22:443–444c**  
 Ninth of September mine: **18:(161), 20:(70), 20:(299), 20:(394); cuboctahedral to 6 cm 21:257n, 21:259p; skeletal 22:459**  
**Canada**  
 British Columbia  
 Betty group, Betty Glacier, north of Divide Lake **15:91n**  
 Bluebell mine, Riondel **8:34**  
 Ice River complex (anhedral) **12:224**
- Mt. Washington mine, Vancouver Island **15:(90)**  
 New Brunswick  
 Mt. Pleasant, Charlotte County **18:(362)**  
 Northwest Territories  
 Echo Bay mine, Port Radium **20:204p**  
 Locality not specified (acicular) **3:36p**  
 Nanisivik mine (melted appearance) **21:522, 21:523p**  
 Polaris mine, Little Cornwallis Island (brilliant cubic) **22:386**  
 Ontario  
 Canada Crushed Stone quarry, Dundas (modified cubes to 5 mm) **3:186**  
 Lincoln quarry, Beamsville (micro hopper crystal) **13:111p**  
 Silver Islet mine **17:60n**  
 Québec  
 Mt. St-Hilaire: **13:(242), 13:(244); masses 21:311**  
 Yukon  
 Mt. Hundare, near Watson Lake (skeletal) **24:49n**  
 Sa Dana Hess mine, near Watson Lake **24:223n**
- Czech Republic (formerly Czechoslovakia)**  
 Bohutín district, Příbram ore field (cubic; some arsenian/antimonian, "steinmannite") **12:158–159p**  
 Trebsko deposit (T-1 vein) (vein filling) **22:211**
- England**  
 Cumbria  
 Black Dean mine **9:37n**  
 Derby  
 Derbyshire orefield **14:17**  
 Durham  
 Boltsburn mine, Weardale: crystals to 7 cm **13:11–12c, 13:17p; cuboctahedral 13:10p**
- France**  
 Les Malines mine, Gard: **24:234; spiky, reticulated 23:434**
- Germany**  
 Harz Mountains  
 Neudorf: **1:(84); Bement specimen 21:56p**  
 Niedersachsen  
 Neudorf (with cube, octahedron, dodecahedron forms) **12:(184p)**  
 Rheinland-Pfalz  
 Friedrichsseggen mine, Ems district: after calcite crystals **15:338p, 15:342n; after pyromorphite, with pyromorphite coating 15:333p**  
 Kautenbach mine, Bernkastel-Kues (after pyromorphite) **20:147**  
 Siegerland  
 Neue Hoffnung mine **19:121n**
- Greece**  
 Laurium area: **7:117; arborescent 17:186–187p,c**
- Greenland**  
 Narssárssuk (masses) **5:122**
- Ireland**  
 Mogul mine, Tipperary **15:168p**
- Italy**  
 Sardinia  
 Iglesias (near) (1 cm cubes, cuboctahedrons) **15:371**  
 Seddas Moddizia mine (complex cubes) **15:372n**  
 Tuscany  
 Boccheggiano mine **10:286**  
 Calagio quarry (tabular) **18:272c,d**  
 Lorano quarry (octahedral penetration twin) **18:272p,d**
- Japan**  
 Oizumi mine, Yamagata **9:368n**

## GENERAL INDEX

### Mexico

- Chihuahua  
 Los Lamentos (remnants) **11:284**  
 Naica: **20:237**; bright cuboctahedral **24:51n**;  
 bright dodecahedral, argentian **14:385**  
 Tepeguaje mine, Batopilas district **17:(75)**  
 Guerrero  
 Taxco **18:155n**

### Namibia

- Tsumeb (some after calcite) **8:T25n, 8:T60p**

### New Zealand

- Tui mine: "eyes" with anglesite, cerussite **6:30**;  
 large masses, crystals to 25 mm **6:28**

### Peru

- Huanzala mine, Huanuco (5 mm cubic) **13:30**  
 Julcani district **5:217n**

### Poland

- Ulgusz (1.5 cm octahedrons) **21:491n**

### Romania

- Herja (flat spinel twins to 5 cm) **23:268**  
 Mistrubanya (octahedral to 4 cm) **23:268n**

### Russia (formerly USSR)

- Beriozava, near Sverdlovsk (after thick silver wire) **25:217p, 25:218**  
 Nicolai mine, Dal'negorsk (flat spinel twin) **25:47n, 25:49p**

### Scotland

- Strathclyde  
 Glengonnar mine, Leadhills district **12:242p**

### Slovenia (formerly Yugoslavia)

- Mežica mine (massive, crude crystals) **22:104n**

### South Africa

- Cape Province  
 N'Chwaning II mine (sharp cubes to 5 mm) **22:285**

### Spain

- Hiendelaencina district, Guadalajara (minute octahedral) **23:248**  
 Horcajo mines, Ciudad Real **25:25**  
 Troya mine, Guipuzcoa **23:272n**

### Switzerland

- Lengenbach quarry (micro) **8:279p**

### United States

- Arizona  
 Bisbee district (massive; crude crystals) **12:305**  
 Fat Jack mine, Yavapai County (massive argentiferous) **22:25**  
 Grand Reef mine, Graham County (massive) **11:223**  
 Iron Cap mine, Graham County **19:82–86p,d**  
 Magma mine **14:(82)**  
 Mammoth mine, Pinal County (casts, box-works after) **11:161**  
 New Cornelia mine, Pima County (minute cubes) **14:295**  
 Old Yuma mine, Pima County **14:(107)**  
 Red Cloud mine, La Paz County (massive, argentiferous) **11:149**  
 Rowley mine, Maricopa County (remnants) **5:16p, 5:17**  
 79 mine: **3:249–250**; deformed **3:262p**  
 Tonopah-Belmont mine, Maricopa County **19:143**

### California

- Darwin district, Inyo County: **15:14n**; altering to anglesite and cerussite **8:432n**  
 Jensen quarry, Riverside County **15:288n**  
 Kalkar quarry, Santa Cruz County (indicator of pabstite) **17:320**  
 Zaca group, Alpine County (veins, minute crystals) **22:36**

### Colorado

- Bachelor mine, Mineral County (2.5 cm cubes) **7:297**  
 Bandora mine, San Juan County (some in quartz) **19:244**

- Black Cloud shaft, Leadville district **16:191**  
 Brooklyn mine, Silverton district **10:331n**  
 Camp Bird mine, Ouray County: **14:146p**; 4 cm crystals **7:303n**  
 Commodore mine, Mineral County (6 cm cubic) **7:295p, 7:297**  
 Cross mine, Caribou **10:331–332n**  
 Eagle mine, Eagle County (12 mm crystals) **7:285**

- Enterprise mine, Rico district **16:213**  
 Galena Queen mine, San Juan County (7.5 cm cubes) **7:302**  
 Genesee-Vanderbilt mine, Ouray County **19:99**

- Grizzley Bear mine, Ouray County **19:94**  
 Hayseed Tunnel (Tucker vein), Gilpin County (2–4 cm floaters) **22:382**

- Helena mine, Lake County **16:193p**  
 Home Sweet Home (Sweet Home) mine, Park County **10:333n, 10:336**  
 Italian Mountain area, Gunnison County (anhedral) **15:86n**

- Julia Fisk mine, Leadville district: **16:193p**;  
 2.5 cm crystals **7:289n**

- Leadville district, Lake County **16:192–193c,p**

- Mineral Farm mine, Ouray County **19:(99)**  
 Mountain Monarch mine, Ouray County **19:92–93p**

- Moyer mine, Leadville district **16:182n, 16:192p**

- National Belle mine, Ouray County: angle-site replacing **19:99**; massive **17:235n**

- Portland mine, Ouray County (skeletal) **10:331**

- Rico Argentine mine (Van Winkle shaft), Rico district **16:213n**

- Rico district, Dolores County **16:213**  
 San Juan Mountains **10:358n**

- St. Peter's Dome, El Paso County: stalactitic **10:181**; with amazonite **10:377**

- Tucson mine, Leadville district (flattened twinned crystals, stalactitic) **16:181**

### Connecticut

- Thomaston Dam, Litchfield County **10:240**

### Georgia

- Battle Branch mine, Lumpkin County (gold on and in) **18:69–70**

### Illinois

- Annabel Lee mine, Hardin County **17:147**  
 Denton mine, Hardin County **18:148n**  
 Hardin County **20:390**

### Iowa

- Pint's quarry, Raymond, Black Hawk County **20:478**

### Michigan

- Cliff mine, Keweenaw County **23:M65n**  
 Michigan mine, Marquette County **17:121n**  
 White Pine mine, Ontonagon County: **14:226p**;  
 micro crystals **23:M65**

### Missouri

- Buick mine, Reynolds County (crystals to several cm) **15:39**  
 Sweetwater mine, Reynolds County: **20:481**;  
 flat spinel-law twins to 5 cm **21:483**

### Nevada

- Chalk Mountain mine, Churchill County (veins) **13:221**

- Killie mine, Elko County (highly altered) **18:416**

- Outlaw mine, Nye County (grains) **22:178**

### New Jersey

- Sterling Hill mine (minute cube) **10:164p**

### New Mexico

- Alhambra mine, Grant County **20:59n**  
 Blanchard claims, Socorro County (some anglesite after or linarite on) **19:332n**

- Hansonburg district, Socorro County **20:36**  
 Lynchburg mine, Socorro County **20:(61)**  
 Magdalena district, Socorro County **20:20**  
 Point of Rocks quarry, Colfax County (tiny crystals) **15:152**

- Stephenson-Bennett mine, Dona Ana County: **20:29**; cubes to 1 cm **4:33**

### Pennsylvania

- Phoenixville **20:380**  
 Wheatley mine **20:380p**

### Tennessee

- Elmwood mine, Smith County (some with poss. epitaxial fluorite) **9:217, 9:218p**

### Washington

- Locality not specified (poss. epitaxial on pyrite) **10:33n**

- Pedro claim, King County **21:485n**

### Wisconsin

- Rib Mountain, Marathon County (micro in quartz) **12:95**

### Wales

- Gwynedd  
 Prenteg **23:397n**

### GALENOBISMUTITE

#### Australia

- New South Wales  
 Kingsgate mines (massive) **16:282**

#### China

- Chenzhou, Hunan: **24:49n**; uncertain id **21:(488)**

#### United States

- Colorado  
 Alaska mine, San Juan County **10:358n**

### GALKHAITE

#### Canada

- Ontario  
 Hemlo gold deposit **17:(340)**

#### Kyrgyzstan (formerly USSR)

- Khaidarkan **5:290h,d,c**

#### Russia (formerly USSR)

- Gal-Khaya, Yakutia **5:290h,d**

#### United States

- Nevada  
 Getchell mine, Humboldt County: **8:390n, 16:17–18c, 16:19–20d,p, 19:(255)**; micro crystals **5:290**  
 Humboldt County **9:(113)**

### GALLITE

#### Namibia

- Tsumeb (grains) **8:T25n**

### GANOMALITE

#### Sweden

- Two localities **10:47n**

#### United States

- New Jersey  
 Franklin: micron-size **22:275c,p**; minute crystals **10:47–48h,q,p,c**

### GANOPHYLLITE

#### Canada

- Québec  
 Mt. St-Hilaire (acicular to 2 mm) **21:311**

#### Sweden

- Harstigen mine, Värmland **22:(49)**

#### United States

- New Jersey  
 Franklin **9:(114), 19:(274)**

### GARAVELLITE

#### Italy

- Valle del Frigido, Apuane Alps, Tuscany (announced) **10:302h,q**

### GARNET GROUP

*See also names of individual species*

Causes of color **24:63**

Crystal structure **24:63–64**

## GENERAL INDEX

- Gem garnet nomenclature **24:62**  
 Geologic environments of various garnet species **24:64**  
 Locality not specified **20:340q**  
 Synthetic "garnets" **24:62**  
 Topic of mineralogical symposium, 11 abstracts **24:61–68**  
 Used as paint pigment **24:65–66**
- Afganistan/Pakistan**  
 Locality uncertain **20:484–485**
- Antarctica**  
 Antarctic Peninsula Volcanic Group **18:197n**
- Australia**  
 Central Victoria **18:197n**
- Austria**  
 Berliner Hütte, Zemmgrund **17:107h**  
 Pusygraben, Carinthia (to 12 cm) **17:107n**  
 Stubalpe, Styria **17:107n**
- Brazil**  
 Minas Gerais  
 Cruzeiro mine **11:370**  
 Jove Lauriano mine (pink, in tourmaline) **14:235n**  
 Sebastião Cristino mine (pink) **14:235n**
- China**  
 Altay region, Xinjiang autonomous region **18:(326)**
- Germany**  
 Rheinland-Pfalz  
 Bellerberg, Eifel **10:95p**
- Greenland**  
 Ravns Storø Island, north of Frederikshåb glacier (euhedral to 11 cm) **24:G15**
- Italy**  
 Lombardy  
 Val Malenco **3:122**  
 Piemonte  
 Condove, Val di Susa **10:86n**  
 Tuscany  
 San Piero in Campo area, Elba (octahedral crystals) **16:358c,d**  
 Val d'Aosta  
 St. Vincent (chromian) **10:87**
- New Zealand**  
 Canterbury **18:197n**
- Tanzania**  
 Kenyan border (near) (pyrope-spessartine; "malaya") **11:321**
- United States**  
 Arkansas  
 Magnet Cove, Hot Spring County (various species) **24:67**  
 Colorado  
 Italian Mountain area, Gunnison County (grossular-adradite) **15:83**  
 Ruby Mountain, Chaffee County (almandine-spessartine) **18:198q**  
 Connecticut  
 Middletown, Middlesex County (black euhedral, groups to 30 cm) **24:67–68**  
 Maine  
 Wade quarry (west of), Androscoggin County (clear red to 1 cm) **24:382**  
 Nevada  
 Garnet Hill, White Pine County (intermediate almandine-spessartine-grossular-pyrope) **18:197–198p,q**  
 Julie claim, Mineral County (grossular-andradite to 2 cm) **16:78**  
 Utah  
 Drum Mountains, Tooele and Juab counties (subhedral to 5 cm) **10:275**  
 Garnet Basin, Thomas Range (almandine-spessartine) **18:198n**  
 Thomas Range (hematite after) **25:59n**
- Thomas Range and Drum Mountains: pseudomorphs **10:270**; spessartine-almandine, euhedral to 3 cm, octahedral to 6 mm **10:269–270p**  
 Topaz Mountain, Juab County (5 cm black) **13:184p**  
 Washington  
 Vesper Peak (near), Snohomish County (gemmy brown, to 5 cm, some with cube faces) **13:181**  
 Wyoming  
 Oldman Ranch, Carbon County (dodecahedral to 8 cm, chlorite after) **21:485n**
- Zambia**  
 Broken Hill mine **11:341**
- 
- "GARNIERITE"
- General term for hydrous nickel silicates*
- Greece**  
 Plaka mine, Laurium (masses) **7:122n**
- United States**  
 Pennsylvania/Maryland  
 Line pit, State Line district ("genthite"; transparent green crusts) **12:155**
- 
- GARRELSITE**
- United States**  
 Colorado, Wyoming, Utah  
 Green River formation **8:368–371**
- 
- GARRONITE**
- Canada**  
 Québec  
 Mt. St-Hilaire (minute prismatic) **21:311**
- Iceland**  
 Localities not specified **12:16n**
- Ireland**  
 Garron Point, County Antrim (micro) **10:173**
- United States**  
 Arizona  
 Horseshoe Dam area, Maricopa County (id as phillipsite) **14:117**  
 Colorado  
 Table Mountain, Jefferson County **19:162q, 19:169p**  
 Oregon  
 Goble, Columbia County **9:(114)**
- 
- GARTRELLITE**
- Australia**  
 Western Australia  
 Ashburton Downs: **21:487n**; powdery **24:212p**
- GARYANSELLITE**
- Canada**  
 Yukon  
 Rapid Creek area (kryzhanovskite-garyansellite; crystals to 5 mm) **23:Y23–25q,c,p**
- 
- GASPARITE-(Ce)**
- Australia**  
 Western Australia  
 Widgiemooltha (near) (compact seams to 10 cm) **23:432n**
- Italy**  
 Lombardy  
 Monte Cervandone: **23:435n**; crystals to 3 mm **21:489n**
- United States**  
 New Mexico  
 Beryllium Virgin claim, Sierra County **20:404, 22:384n**  
 Paramount Canyon bixbyite locality, Sierra County **20:404**  
 Squaw Creek tin mine, Catron County **20:404**
- 
- GASPEITE**
- Australia**  
 Western Australia  
 132 North deposit, Widgiemooltha district (50 cm veins) **25:287q**
- 
- GAUDEFROYITE**
- South Africa**  
 Cape Province  
 N'Chwaning or Black Rock mine **19:201–203p,c, 19:272n**  
 N'Chwaning II mine (crystals to 5 cm) **22:285p**  
 Wessels mine: **18:148n**; crystals to 5 cm **22:285**
- 
- GAYLUSSITE**
- United States**  
 California  
 Searles Lake: crystals to 20 mm **6:74d, 6:76c; micro 8:431**  
 Colorado, Wyoming, Utah  
 Green River formation **8:368–371**
- 
- GEARKSUTITE**
- Norway**  
 Gjerdingen, Nordmarka region (massive) **11:85p**
- United States**  
 Arizona  
 Grand Reef mine, Graham County **11:223**  
 Colorado  
 Wagon Wheel Gap mine, Mineral County (powdery balls) **24:28–29**
- 
- GEBHARDITE**
- Namibia**  
 Tsumeb **13:138p, 13:140**
- 
- GEIKIELITE**
- Australia**  
 Northern Territory  
 Harts Range **15:(99)**
- Brazil**  
 São Paulo  
 Jacupiranga mine **15:265q**
- United States**  
 California  
 Jensen quarry, Riverside County **15:280c,d,q**
- 
- GEMSTONE DEPOSITS**
- Major or representative*  
 Anjanabonoina, Madagascar **20:191–200**  
 Australia **19:380**  
 Beryl (world survey) **7:211–223**  
 Brazil (diamonds) **20:325–336**  
 Colombia emerald districts **1:142–149**  
 Crater of Diamonds, AR **21:550–555**  
 Dunton mine, ME **6:14–25**  
 Gilgit-Skardu region, Pakistan **16:393–411**  
 Himalaya dike system, CA **8:461–475**  
 Kimberley, Western Australia (diamonds) **21:559–564**  
 Little Three pegmatites, San Diego County, CA **20:101–127**  
 Maine tourmaline localities **16:365–388**  
 Nuristan region, Afghanistan **9:301–308**  
 Ouro Preto topaz mines, Brazil **20:221–233**  
 Oxford County, ME **19:340b**  
 Thomas Range, UT **10:261–278**  
 USSR **19:340b**  
 Zebirget (St. John's Island), Egypt (forsterite, "peridot") **7:310–314**
- 
- GENKINITE**
- South Africa**  
 Transvaal  
 Onverwach mine, Lydenberg district 330 level **19:338n**

**GENTHELVITE**

Helvite group (genthelvite, helvite, danalite) **8:92–93c,q**

**Argentina**

Cerro Blanco Tanti, Córdoba: **20:393**; blue cobaltian **25:143**

**Canada**

**Québec**

DeMix quarry, Mt. St-Hilaire **8:93q**  
Mt. St-Hilaire: **10:104**, **10:106p**; crystals to 5 cm, fl. green **21:311–312d,p**  
Poudrette quarry (1 cm crystals) **21:486**

**United States**

**Colorado**

Cookstove Mountain, El Paso County (large euhedral) **8:92–93p**

**Rhode Island**

Cumberland, Providence County (“danalite” id as; crystals to 6 mm) **8:93**

**GECRONITE**

**Brazil**

**Minas Gerais**

Virgem da Lapa (9 cm twinned crystals) **8:391n**

Xanda mine, near Virgem da Lapa (bismuthian, 7.5 cm twin) **13:27–28**

**Canada**

**Ontario**

Taylor farm, near Madoc **13:(80)**

**Czech Republic (formerly Czechoslovakia)**

Příbram district **12:162n**

**France**

Les Farges mine, Corrèze **13:(267)**

**Italy**

**Tuscany**

Calagio quarries **18:278p**  
Carrara region (jordanite-geocronite) **18:275**, **18:278c,q**  
Pietrasanta, Castelo Valley (8 cm crystals) **15:250n**

**Sweden**

Falun, Kopparberg **9:(114)**

**United States**

**Colorado**

Humbolt mine, Boulder County **11:(36)**

**GEODE FORMATION**

*Fabulous Keokuk Geodes, The* **2:35–36b**

In limestone, Salem, Indiana **14:9–12**

Sierra Gallego area, Chihuahua, Mexico **10:209–212p**

**GEORGECHAOITE**

**United States**

**New Mexico**

Wind Mountain, Otero County **20:9**, **20:60**, **20:(152)**

**GEORGEITE**

**Australia**

**Western Australia**

Carr Boyd deposit (announced) **10:302h,g**

**GEORGIA**

Amethyst localities **21:209s**

Battle Branch mine, Lumpkin County **18:69–70h,g**

Betz mine, Lumpkin County **18:69h**

Bibliography of locality literature **18:215**

Bibliography of mineralogy literature **10:17**

Boly Field mine, Lumpkin County **18:68h,g**

Booger Bottom (near), Meriwether County **22:382s**

Brewer iron mine, near Cedartown, Indian Mountain, Polk County **10:48s,h**, **20:361s**

Calhoun mine, Lumpkin County **18:70h,g**

Cedartown, Polk County: **5:241**; see also Alabama—Indian Mountain

Cold Water Creek, Rock Branch, Elbert County **24:222s**

Columbia mine, McDuffie County (see Fluker mine)

Dugas mine (see Loud mine)

Early gold discoveries and rushes **18:65–66h,m**

Etna, Polk County: **5:241**; see also Alabama—Indian Mountain

Fannin County **21:482s**

Findley mine, Lumpkin County **18:70g,h**, **18:71p**

Fluker (Columbia) mine, McDuffie County **18:67p**

Graves Mountain, Washington, Lincoln County **16:443–458h,p,m,g**, **18:137s**, **24:222h**, **25:214s**

Highway 27 north of Lumpkin, Stewart County **10:48s**

Indian Mountain, Polk County **20:355–362p,m,h,g**

Loud mine, Cleaveland, White County **18:71g,h**

Lumpkin County **15:145s**, **18:65–74g,h,p**

Magruder mine, Metasville, Lincoln County **18:73s**

*Minerals of Georgia (Their Properties and Occurrences)* **11:49–50b**

Paga mine, Cartersville, Bartow County **22:61**

Potosi mine, Hall County **18:70–71g,h**

Singleton mine, Lumpkin County **18:70h**

Tallapoosa County **18:73s**

301 mine, Holly Springs, Cherokee County **18:67p**

Turkey Hill mine, Lumpkin County **18:70h,g**

**GEORGIADSESITE**

**Greece**

Laurium area (micro crystals in slag) **7:123n**

**GERHARDITE**

**Zaire**

Likasi mine **8:(517)**

**GERMANITE**

**Namibia**

Tsumeb (massive; some tungstenian, vanadian) **8:T25**, **8:T83p**

**United States**

**Colorado**

Humbolt mine, Boulder County (tiny cubes) **11:36**

**GERMANY**

*Note: For Grube \_\_\_\_, see \_\_\_\_, mine Bergbaugeschichte, Geologie und Mineralien von Ehrenfriedersdorf/Sa, mit 30 Exkursionszielen* **23:413b**

Douglashall **6:76s**

Dreislar **20:398s**

*Edlen Steine Sachsens, Die* **23:412b**

*Emser Hefte* (periodical introduced) **11:275**

Gernrode **19:25s**

Gräben, Striegau, Silesia **15:250s**

Greifenstein, Saxony **4:125**

Kleinvoigtsberg **19:217s**

Mackenheim, Odenwald **8:305**, **8:306**

*Minerale des Döhlener Beckens, Die* **24:399b**

*Mineralfundstellen Atlas Deutschland West* **23:413b**

*Mineralfundstellen Ostharz und Lausiz* **23:413b**

*Mineralfundstellen Sächsisches Erzgebirge* **23:413b**

*Mineralfundstellen Thüringen und Vogtland* **23:413b**

*Mineralien des Schwarzwaldes und ihre Fundstellen, Die* **24:399b**

*Mineralienführer Ostharz, Der* **22:153b**

*Mineralien und Fundstellen, Bundesrepublik Deutschland* **21:496b**

Niederschlema, Saxony **2:102s**

Odenwald Mountains **17:7h,g**

Pyromorphite localities, old **5:4–5**

Rheinbreitbach, Rheinland **18:356s**

Rhenanie **19:35s**

Rhine River **13:363h**

Riechelsdorf **19:256s**

Rothausburg **17:5h**

Schlems **19:22s**

Silver districts, old **7:319**, **17:3–18h,m**

Silver mining, historical overview **17:3–18m,p,h**

Tschoppau, Saxony **15:143s**

**Baden-Württemberg**

Alt St. Joseph mine, Wittichen district **17:6h**

Anton mine, Heubachtal, near Schiltach, Schwarzwald **8:306h,s**, **9:115s**

Anton mine, Wieden **17:5–6h**

Black Forest (Schwarzwald) **17:4m**, **17:5–6h**

Brigaw (see Schauinsland)

Clara mine, Rankachtal, near Oberwolfach, Schwarzwald **8:306h,s**, **16:122s**

Gnade Gottes mine, Wittichen district **17:6h**

Gottesehre mine, St. Blasien **17:6s**

Hofsgrund, at foot of Schauinsland (mountain) **5:5h**

Kaiserstuhl **17:136s**

Krunkelbachtal, near Menzenschwand, Schwarzwald **8:307**

Limberg, near Sasbach, Kaiserstuhl **8:305s**

Merzhausen, Hexental **20:463s**

*Mineral-Fundstellen: Baden-Württemberg* **7:315b**

Schauinsland (mountain) district, near Freiburg/Breisgau **5:5h**, **19:126b**, **22:312s**

Schmiedestollenhalde, Wittichen district, Schwarzwald **8:307s**

Schwarzwald **19:340b**

Sophia mine, Wittichen district **8:306h**, **17:6s,h**

Tannenboden mine, Wieden **17:6s**

Wenzel, Schwarzwald **20:147s**

Wieden (near), Schwarzwald **10:125s**

Wittichen district, near Schenkenzell, Schwarzwald **8:306h** **17:6h**, **19:256s**

**Bavaria**

Aschaffenberg **16:123s**

Bayerland mine **19:124s**

Bodenmais, Niederbayern **13:363h**

Epprechtstein, Fichtelgebirge, Oberfranken **18:162s**

Fichtelsee **19:124s**

Fuchsbau quarry **19:124s**

Goldkronach, east of Bayreuth, Oberfranken **13:363s**, **22:221s**

Hagendorf **10:301s**

Hagendorf-Süd, near Waidhaus **4:108g**, **4:109g**, **4:112g**, **4:114s**, **4:116s**, **4:123s**, **14:197s**, **16:463–464s**, **19:128s**, **20:363–364s**

Hühnerkobel pegmatite **4:116s**

Johanneszeche **19:124s**

Kirchenlamitz **19:124s**

Münchsberg massif **15:38s**

Munich (for travellers) **15:131–134**

Schnaittach **20:463s**

**Dresden**

*Minerale des Döhlener Beckens, Die* **24:399b**

**Eifel district (see Rheinland-Pfalz)**

**Erfurt**

Bleicherode **14:179s**

Ifeld, Harz Mountains **1:84s**, **18:356s**

Woffleben, Ifeld **19:25s**

**Erzgebirge (see Upper Saxony)**

**Halle**

Mansfeld Kupferschiefer **17:4m**, **17:9–10h,g**

Roßleben (Rossleben) **17:209s**

**Harz Mountains**

Adjoining parts of Niedersachsen, Magdeburg, Halle, and Erfurt **17:7–9m,h,p**, **19:126**, **19:340b**

Freseburg **11:14s**

Glücksrad mine, Oberschulenberg Harz **15:343s**

Pferdekopf, near Wormke **11:14s**

**Hessen (see also Siegerland)**

Battenberg 16:47s  
 Clara mine, Oberwolfach 16:123s  
 Johanne mine, Kransberg, Taunus region, near Frankfurt 10:122s  
 Lungd 20:398s  
 Oberwiddersberg, near Nidda, Vogelsberg 8:305  
 Phillipseck mine, near Munster, Taunus 8:307  
 Richelsdorf 15:111s

**Magdeburg**

Stassfurt 15:250–251s

**Nassau (see Rheinland-Pfalz)****Niedersachsen**

Abendröthe mine, St. Andreasberg, Harz Mountains 17:9h  
 Andreaskreuz mine, St. Andreasberg, Harz Mountains 17:9h  
 Bad Lauterberg 22:153b  
 Bergmannstrost mine, St. Andreasberg, Harz Mountains 17:9h  
 Claus Friedrich mine, St. Andreasberg, Harz Mountains 17:9h  
 Clausthal 17:7h,m  
 Dorothea mine, St. Andreasberg, Harz Mountains 17:9h  
 Drei Ringe mine, St. Andreasberg, Harz Mountains 17:9h  
 Felicitas mine, St. Andreasberg, Harz Mountains 17:9h  
 Fünf Bücher Mosis mine, St. Andreasberg, Harz Mountains 17:9h  
 Gnade Gottes mine, St. Andreasberg, Harz Mountains 17:9h  
 Gottes Segen mine, St. Andreasberg, Harz Mountains 17:9h  
 Jakobsglück mine, St. Andreasberg, Harz Mountains 17:9  
 Katharina Neufang mine, St. Andreasberg, Harz Mountains 17:9h  
 König Ludwig mine, St. Andreasberg, Harz Mountains 17:9h  
 Laliwerk Sigmundshal, Bokeloh bei Wunstorf 8:390s  
*Mineralienfundstellen im Raum Bad Lauterberg* 22:153b  
 Misburg, near Hannover 15:118–119s, 19:271s, 20:73–74s  
 Neudorf, Harz Mountains 1:84s, 12:184s  
 Rammelsberg 13:363h, 17:5h, 17:7h,m  
 St. Andreasberg, Harz Mountains 1:84s, 1:86s, 15:143s, 15:144s, 17:7–9m,h,p, 18:356s, 18:408s, 19:43s, 19:148s, 19:205b  
 Samson mine, St. Andreasberg, Harz Mountains 17:8h,p, 17:9  
 Wildemann 17:7h  
 Wolfsberg, Harz Mountains 1:109s, 9:113s, 16:46s  
 Zellerfeld 17:7h,m

**Nordrhein-Westfalen (see also Siegerland)**  
 Gonderbach mine, near Fischelbach 17:7h

**Rheinland-Pfalz (formerly Nassau; see also Siegerland)**  
 Angelika mine, near Nieder-Beerbach, Odenwald Mountains 17:7g, 17:9s  
 Arensberg, near Zilsdorf, Eifel district 8:305  
 Bad Ems 5:4–5h, 15:323–344g,h,m,p,s, 18:160s, 18:261s, 18:355–357p, 18:365s  
*Bad Ems Bergbau und Mineralien* 11:116b  
 Bellerberg, southeast of Ettringen, Eifel district 8:314m, 12:384s, 21:478s, 24:314s, 25:208s  
 Bergmannstrost mine, Bad Ems, Ems district 15:324m, 15:335s  
 Deidesheim area 21:263–264h  
 Eifel district 18:356s, 19:126b, 20:156g, 25:208, 25:306b  
 Ems district 15:323–344h,g,p,m

Fahnenberg vein, southwest of Bad Ems, Ems district 5:5h, 15:325m, 15:335s  
 Friedrichsseggen mine, Friedrichsseggen, Bad Ems 15:324m, 15:327p, 15:332–343s, 18:261p  
 Hannebacher Ley, Eifel district 20:157s  
 Hunsrück 19:126b  
 Idar-Oberstein area 19:126b  
 Jucken quarry, Fischbachtal 20:147s  
 Kallenberg, Eifel district 25:208s  
 Kautenbach mine, Bernkastel-Kues 20:147s  
 Königstiel mine, Braubach, Ems district 15:325m, 15:326h  
 Laacher See region, near Andernach, Eifel district 8:313–326h,g,m  
 Louise mine, Bürdenbach, near Nassau 18:260s  
 Mendig, Laacher See region, Eifel district 8:314m, 8:319s, 18:365s, 25:208s  
 Mercur mine, Bad Ems, Ems district 15:325m, 15:329m, 15:338s  
 Nahe 19:126b  
 Oberstein/Nahe 8:304s  
 Pflingstwiene mine, Bad Ems, Ems district 15:325m, 15:338s  
 Rosenberg mine, Braubach, southwest of Bad Ems, Ems district 5:5h, 15:325m, 15:333–341s  
 Sattelberg bei Kruft, Eifel district 17:137s  
 Viktoria mine, Littfeld 8:307  
 Zilsdorf quarry, Eifel region 18:356s

**Siegerland**

Adjoining parts of Hessen, Rheinland-Pfalz, and Nordrhein-Westfalen 19:121h  
 Adler mine, Eisern 25:140s  
 Friedrich mine, near Wissen 18:356s, 19:121s  
 Friedrich mine, Niederhövels 19:122s  
 Georg mine 18:356s, 19:121s  
 Gonderbach mine, near Fischelbach 17:7h  
 Luise mine 19:121s  
 Müsen 18:356s  
 Neue Hoffnung mine 19:121s  
 Wolf mine, Herdorf 19:13s, 20:483–484s

**Upper Saxony**

Adam Heber mine, Erzgebirge 17:12h  
 Alte Drei Brüder mine, Marienberg, Erzgebirge 17:16h  
 Alte Hoffnung Gottes mine, Bräunsdorf, near Freiberg 17:18h  
 Annaberg, Erzgebirge 17:15–16h,g  
 Bergkappe mine, Schneeberg, Erzgebirge 17:12h  
 Berthelsdorf, near Freiberg 17:18h  
 Beschert Glück mine, near Freiberg 17:18h  
 Brand mine, near Freiberg 17:18h, 19:21s  
 Bräunsdorf, near Freiberg 17:18s  
 Ehrenfriedersdorf 11:14s, 19:217s  
 Erbsdorf, near Freiberg 17:18s  
 Erzgebirge: 12:113h, 17:10–17m,p,h, 18:159s, 18:356s; historical and geological overview 21:565–570m,h,g,p  
 Fabian Sebastian mine, Marienberg, Erzgebirge 17:16s  
 Freiberg 17:10m, 17:17–18h,g, 18:161s, 18:162–163s, 19:217s, 20:417s, 20:483s  
 Fruitful Foolishness mine, Schneeberg 17:12h  
 Georg Wagsfort mine, Johanngeorgenstadt, Erzgebirge 17:14h  
 Gesellschaft mine, Erzgebirge 17:12h  
 Gnade Gottes mine, Johanngeorgenstadt, Erzgebirge 17:14h  
 Gottes Segen mine, Johanngeorgenstadt, Erzgebirge 17:14h  
 Halsbrücke, near Freiberg 17:18s  
 Hartenstein mine, near Aue, Erzgebirge 9:113s, 18:242s, 18:245s  
 Himmelfahrt mine, near Freiberg 17:18h  
 Himmelsfürst mine, near Freiberg: 17:18h,s, 19:19s; historical exhibit at 1986 Munich show 18:162–163h

Johanngeorgenstadt, Erzgebirge 8:517s, 17:10m, 17:14–15h,p, 19:216s, 24:308s  
 Junge Drei Brüder mine, Marienberg, Erzgebirge 17:16h,s  
 Liebenschlehen mine, Neustaedel-Schneeberg 16:123s  
 Marcus Röling mine, Annaberg, Erzgebirge 17:16h  
 Marienberg, Erzgebirge 17:10m, 17:16h  
 Mittagssonne mine, near Freiberg 17:18s  
 Neue Hoffnung Gottes mine, Bräunsdorf, near Freiberg 17:18h  
 Neujahrs Maassen mine, Johanngeorgenstadt, Erzgebirge 17:14h,s  
 Neu Leipziger Glück mine, Johanngeorgenstadt, Erzgebirge 17:14h  
 Oberschlema 17:209s  
 Paitzdorf mine, Ronneburg, Thuringia 22:459s,h  
 Pöhla mine, near Crottendorf 18:147s, 18:161s, 20:146s, 23:434s, 25:215h,s  
 Poor Widow's Luck mine, Schneeberg 17:12h  
 Priester und Leviten mine, Erzgebirge 17:12h  
 Pucher mine, Schneeberg, Erzgebirge 18:335s  
 Reicher Bergseggen mine, near Freiberg 17:18s  
 Römischer Adler mine, Johanngeorgenstadt, Erzgebirge 17:14h  
 St. Daniel mine, Erzgebirge 17:12h  
 St. Georg mine, Schneeberg, Erzgebirge 17:11h, 25:H16–17h  
 Schindler mine, Erzgebirge 17:12h  
 Schneeberg, Erzgebirge 17:11–14h,p,g, 19:21p, 19:256s, 19:325s  
 Schwarzenberg 1:84s  
 Siebenschlehen mine, Erzgebirge 17:12h  
 Tagebau Lichtenberg, Ronneburg 4:42  
 Thum 11:14s  
 Türk mine, Erzgebirge 17:12h  
 Vater Abraham mine, Marienberg, Erzgebirge 17:16h,s  
 Vereinigt Feld, Brand-Erbisdorf, near Freiberg 18:163s  
 Weisser Hirsch mine, Schneeberg, Erzgebirge 17:12h,s  
 Zwickau 22:221s

**Württemberg**

Schramberg 16:122s

**GERSDORFFITE****Canada**

Northwest Territories  
 Port Radium 20:(207)  
 Québec  
 Mt. St-Hilaire: 18:364n; grains 21:312

**France**

Les Farges mine, Corrèze 13:(267)

**Germany**

Rheinland-Pfalz  
 Fahnenberg vein, Ems district 16:335d  
 Friedrichsseggen mine (3 mm cubes) 15:335d

**Greece**

Plaka mine, Laurium (massive) 7:117

**Hungary**

Báifia (formerly Rezbánya) (auriferous, “sommerarugaite”) 13:(398)

**Morocco**

Ait Ahmane mine (Itaman), Bou Azzer: 18:161n, 20:396; crystals to 4 cm 9:70–71p  
 Locality not specified 18:160n

**United States**

California  
 Jensen quarry, Riverside County (crystals) 15:288n  
 Kalkar quarry, Santa Cruz County (grains) 17:320  
 Montana  
 Snowbird mine, Mineral County: 8:85; crystals to 10 cm 3:274

## GENERAL INDEX

Pennsylvania  
Phoenixville **20:382**

**GERSTLEYITE**

**United States**  
California  
Boron **9:(114)**

**GETCHELLITE**

**United States**  
Nevada  
Getchell mine, Humboldt County **8:(390), 16:18–19, 16:21p, 16:47h, 19:(255)**

**GHOSTS**

Moyer mine, Leadville district, CO **16:182**

**GIANELLAITE**

**United States**  
Texas  
Mariposa mine, Brewster County: announced **9:39–40h; crystals to 1 mm 21:230**

**GIBBSITE**

**Australia**  
Tasmania  
Adelaide mine: **8:25, 19:(384); coralloidal 3:112**  
Dundas **19:(116), 19:385**

**Brazil**  
Minas Gerais  
Serro: **19:335n; euhedral to 1 mm 23:432**

**Canada**  
Québec  
Mt. St-Hilaire (powdery masses; 2 mm crystals) **21:312**

**Germany**  
Rheinland-Pfalz  
Ems district **15:342n**

**Italy**  
Tuscany  
Fantiscritti quarry (crystals) **18:283p**

**Madagascar**  
Anjanabonoina (after microcline) **20:196**

**Norway**  
Langesundfjord area, Oslo Region **12:228**

**United States**  
Arizona  
Lavender pit, Bisbee district (Holbrook extension) (prob. after chalcoaluminite) **12:305**  
Georgia  
Graves Mountain (veinlets) **16:447**  
New Mexico  
Carnahan mine, Santa Fe County **20:63n**  
North Carolina  
Winston-Salem, Forsyth County (grey/lavender banded, apparently formed from industrial water pollution) **2:231p**

**“GIESECKITE”**

*Mixture*

**Canada**  
Ontario  
Davis Hill (waxy masses) **21:244**

**GILALITE**

**United States**  
Arizona  
Christmas mine, Gila County **16:151p**

**GILLESPIE**

**United States**  
California  
Rush Creek, Fresno **9:(114)**

**GILLULYITE**

**United States**  
Utah  
Barrick mine, Tooele County **22:384n**

**GIORGIOSITE**

**Canada**  
Yukon  
Rapid Creek (1 cm silky mass) **23:Y37q**

**GISMONDINE**

**Canada**  
Québec  
Mt. St-Hilaire (1 mm crystals) **21:312**

**Denmark**  
Sundelaget, Færoe Islands **12:17n**

**Germany**  
Rheinland-Pfalz  
Arensberg, Eifel district (crystals to 2.5 mm) **8:305p**  
Laacher See area, Eifel district **8:322d,c**  
Zilsdorf quarry, Eifel district **18:(356)**

**Iceland**  
Skagafell (other localities not specified) **12:16–17p**

**Ireland**  
Locality not specified (micro) **10:173**

**Northern Ireland**  
County Antrim  
Dunseveick **13:44**

**United States**  
Arizona  
Horseshoe Dam area, Maricopa County (probably phillipsite) **14:116**

**GLAUBERITE**

**Australia**  
New South Wales  
Hunter Valley area (several localities) (calcite after, to 50 cm; “glendonites”; “pine-apple” groups) **7:60–68c,p**  
Huskisson (calcite after, to 60 cm) **7:65**  
White Cliffs (opal “pineapples” after) **7:60, 19:378p**  
Victoria  
Ouyen (euhedral to 2 cm) **12:108n**

**United States**  
Arizona  
Camp Verde mine, Yavapai County (crystals; also pseudomorphs after) **14:89–90p**  
New Jersey  
Paterson area, Passaic County (some crystals; cavities after) **9:164p**  
Route 80 roadcut, Passaic County (quartz after) **1:173n**

**GLAUCOCERINITE**

**Greece**  
Kamaréza mine, Laurium (warty masses, crusts) **7:123**

**GLAUCOCHROITE**

**South Africa**  
Cape Province  
Wessels mine (1 mm grains) **22:285, 22:296q**

**United States**  
New Jersey  
Franklin (id as tephroite) **5:36**

**GLAUCODOT**

**Canada**  
British Columbia  
Rocher Déboulé mine, near Hazelton **15:(91)**  
Northwest Territories  
Port Radium **20:(207)**

**Namibia**  
Tsumeb (grains) **8:T25n**

**Sweden**  
Håkansböda, Västmanland (crystals to 6 mm) **3:38–39p**

**GLAUCONITE**

**Australia**  
Western Australia  
Widgiemooltha (nickeloan) **9:(113)**

**South Africa**  
Cape Province  
N’Chwaning II mine (massive) **22:285**

**GLAUKOSPHAERITE**

**Australia**  
Western Australia  
Carr Boyd deposit **9:(113)**  
Locality not specified **9:(113)**  
132 North deposit, Widgiemooltha district (micro spheres) **25:287–288q,p**

**United States**  
Nevada  
Key West mine, Clark County (micro spheres) **22:383**

**Zaire**  
Kasompi, Shaba (“kasompiite” id as) **8:391n**

**“GLENONITE”**

*See Glauberite*

**GLUCINE**

**United States**  
Maine  
Mt. Mica **22:382n**

**GMELINITE**

“Sandwich” habit (poss. gmelinite and chabazite) **12:43**

**Australia**  
New South Wales  
Ardglen quarry **19:399–400p,c,d**  
Victoria  
Flinders area: euhedral to 6 mm **12:108p**, some intergrown with chabazite **19:454, 19:457q, 19:458–459p**  
Point Sambell, Phillip Island **19:454**

**Canada**  
Québec  
Mt. St-Hilaire: **10:108, 19:325–326n,p; plates to 5 mm, rosettes 21:312**  
Poudrette quarry **18:(363), 20:393**

**Ireland**  
Magheramorne quarry, County Antrim (micro euhedral, various habits) **10:173–174p**

**Kazakhstan (formerly USSR)**  
Sarbai mine, Rudnyi (epitaxial on chabazite) **23:433n**  
Sokolovskaya (crystals to 1 cm) **25:218n**

**Northern Ireland**  
County Antrim  
Glenarm (poss. overgrown with chabazite) **13:44**

**United States**  
New Jersey  
Paterson area, Passaic County **9:171**  
Route 80 roadcut, Passaic County **1:174**

**GOBBINSITE**

**Canada**  
Québec  
Mt. St-Hilaire (minute pyramidal) **21:312**  
Poudrette quarry **19:334n**

**GODLEVSKITE**

**Canada**  
Ontario  
Texmont mine, near Timmins (grains) **25:339n**  
Québec  
Orford mine (minute euhedral) **25:339–340p,q**

**Russia (formerly USSR)**  
Talnakh, Noril’sk (grains) **25:339n**

## GOEDKENITE

## United States

- New Hampshire  
Palermo mine **8**:(517)

## GOETHITE

Ramsdellite epitaxial on **4**:77–78

## Australia

- New South Wales  
Old 25 and 25 North pipes, Kingsgate mines (botryoidal and acicular) **16**:287p  
Queensland  
Mt. Isa mine **19**:481  
South Australia  
Moonta mines **19**:(412)  
Walleroo mines **19**:(413)  
Western Australia  
Ashburton Downs (micro crystals) **24**:212

## Bolivia

- El Dragón mine, Potosí (replacing krutaite; after calcite) **21**:142

## Brazil

- Bahia  
Morro do Chapeú prospect, Chapada Diamantina region (replacing twigs) **16**:112n  
Minas Gerais  
Ouro Preto region (“limonite”) **20**:228

## Canada

- Ontario  
Marmoraton mines **13**:111n  
Québec  
Mt. St-Hilaire: **19**:328; masses, after siderite crystals **21**:312–313

## England

- Cornwall  
Botallack district (botryoidal, acicular; after siderite bow-ties) **24**:280  
Derby  
Calton Hill (needles) **14**:16  
Masson quarry, Matlock (stalactitic) **14**:16

## Italy

- Tuscany  
Pereta mine **15**:21n

## Macedonia (formerly Yugoslavia)

- Allchar: “allcharite” discredited as **1**:136; some after pyrite **24**:441

## Malawi

- Mt. Malosa region (after siderite rhombs) **25**:34

## Mexico

- Chihuahua  
Los Lamentos (lustrous crusts) **11**:284–285  
Unspecified geode localities (minute blades, needles) **3**:206–208p

## Morocco

- El Hamman (after anhydrite) **19**:337n  
Eureka Valley, south of Marakech: needles in quartz **18**:143p; 1.5 cm crystals in quartz geodes **15**:177n

## Namibia

- Tsumeb (velvety) **8**:T25n, **8**:T60p

## Poland

- Stanislawow **22**:459n

## South Africa

- Cape Province  
Kalahari manganese field **9**:151  
Transvaal  
Messina district **22**:197n

## Spain

- Eugui quarries, Navarra (massive, botryoidal) **22**:141n  
Horcajo mines, Ciudad Real (botryoidal) **25**:25  
La Arboleta area, Vizcaya (lustrous to velvety) **24**:236

## Switzerland

- Herznach mine, Jura Mountains (micro bladed sprays) **6**:307p

## United States

- Alaska  
Jumbo mine (near), Prince of Wales Island (after pyrite to 4 cm) **8**:6, **8**:7p

## Arizona

- Bisbee district **12**:305  
Cole shaft, Bisbee district (botryoidal, some after pyrite) **12**:305  
Junction shaft, Bisbee district (botryoidal, stalactitic) **12**:305  
New Cornelia mine, Pima County (minute acicular) **14**:295  
79 mine, Gila County (stalactitic) **3**:251  
Shattuck shaft, Bisbee district (bright botryoidal) **12**:305  
Tonopah-Belmont mine, Maricopa County **19**:143

## California

- Jensen quarry, Riverside County **15**:288n  
Kalkar quarry, Santa Cruz (botryoidal) **17**:322  
Little Three pegmatites, San Diego County (after pyrite) **20**:122q, **20**:123

## Colorado

- Bandora mine, San Juan County (massive) **19**:245  
Crystal Peak area, Park/Teller counties: blades to 10 cm **16**:223n, **16**:224p; “onegite,” amethyst with included goethite **16**:219p  
Harris Park, Park County **16**:(223)  
Mt. Rosa, El Paso County **16**:(223), **16**:224p  
Pikes Peak Region **16**:223  
Stove Mountain, El Paso County **16**:(223)  
Wigwam Creek, Jefferson County **16**:(223)

## Connecticut

- East Haven I-95 roadcut, New Haven County (acicular in quartz) **24**:311, **24**:312p

## Georgia

- Graves Mountain (goethite-hematite; massive iridescent) **16**:447–448p, **16**:450p

## Idaho

- Sawtooth batholith (after pyrite, siderite) **24**:194, **24**:195, **24**:197

## Michigan

- Caledonia mine, Ontonagon County **23**:M65  
Lake Shore Traps, Keweenaw County (micro crystals) **23**:M65–66

## Minnesota

- Portsmouth mine, Crow Wing County (quartz on needle of) **19**:199n,p

## Montana

- Snowbird mine, Mineral County (after pyrite, ankerite) **8**:85

## Nevada

- Esmeralda County (esmeraldite id as) **16**:46h  
Killie mine, Elko County (matrix) **18**:418

## New Jersey

- Buckwheat open pit, Franklin (some groups impaled on micro rutile) **14**:187–189p  
Chimney Rock quarry, Somerset County (dendrites) **9**:30

- Prospect Park quarry, Passaic County (acicular) **9**:173

## New Mexico

- Hansonburg district, Socorro County **20**:40

## New York

- Sterling mine, Jefferson County (massive; acicular tufts; crystalline coatings; after hematite) **15**:204–205p, **15**:212p

## Nevada

- Outlaw mine, Nye County (uncertain id) **22**:180

## Oklahoma

- Paoli (southeast of), Garvin County (blades) **17**:374

## Pennsylvania

- Bachman mine, Northumberland County **11**:311n

- Moore Hill, Cumberland County **11**:(311)  
Phoenixville (massive) **20**:382

## Wisconsin

- Rib Mountain, Marathon County (acicular to lath-shaped) **12**:95

## GOLD

Bibliography on gold and gold mining **13**:330–334

Calculating weight of gold in matrix specimens **13**:343

Crystal morphology **13**:351, **13**:383, **13**:389–391d

European localities listed **13**:359–374

Flattened twin **14**:365d

*Gold; Mineral, Macht und Illusion: 500 Jahre Goldraush* **23**:504b

Locality not specified (after sylvanite) **13**:399n

Review of gold-containing minerals **13**:389–400

Varieties of gold (electrum, amalgam, cuprian, etc.) **13**:390–391

## Australia

Locality not specified: **18**:5–32p,c,h; mineralogy **18**:24–32

Major nuggets **18**:18, **18**:25–26

## New South Wales

Beyer and Holterman’s claim, Hill End: **18**:84n; “Holterman nugget” **18**:19–20p

Broken Hill (minute grains) **7**:29

Canadian lead, Home Rule (octahedral crystals) **18**:30p

Lucknow mines, Orange **18**:(28)

Meroo Creek, near Hargraves (“Maitland Bar” nugget) **18**:6p

Nundle (skeletal crystals) **18**:31p

## Northern Territory

Mt. Bonnie mine **19**:444

Tennant Creek (with rare bismuth minerals) **18**:(28)

Wandi Diggings (cubic crystals) **18**:84n

## Queensland

Mt. Isa mine **19**:481

## South Australia

Angepina goldfield (crystals) **18**:27p

Balhannah mine **12**:107s

Moonta mines **19**:(412)

Walleroo mines **19**:(413)

Worturpa mine, North Flinders Range (with melonite) **18**:365n

## Victoria

Bridgewater, west of Bendigo (“Bunyip Nugget”) **18**:7p

Castlemaine (crystals) **18**:31p

Chinese Gardens, Robertson’s Gully, Wedderburn (crystals) **18**:30p

Creswick (alluvial “shot gold”) **18**:25p

Golden Crown mine, Yarambat (wires and crystals) **18**:26–27p

Golden Triangle area **18**:(365)

Goulburn River, Jamieson (alluvial “seed gold”) **18**:25p

Jones Creek, Dunolly area (nugget) **18**:6p

Kingower (“Hand of Faith” nugget) **18**:7p

Matlock (skeletal crystals) **18**:31p

Moliagul, Dunolly area (“Welcome Stranger” nugget) **18**:18p

Mt. Wills (argentian) **18**:(28)

Nuggety Reef, Maldon goldfield (with maldonite) **18**:28

Taradale (alluvial “cornet gold”) **18**:25p

Wehla (crystals) **18**:27p

## Western Australia

Donnybrook (dendritic crystals) **18**:26p

Greenbushes tinfield (grains, flakes) **9**:83n

Kalgoorlie (“mustard gold”) **18**:27p

Kurnalpi (large nugget) **18**:19p



- Meekatharra mine, Murchison district (sharp cuboctahedral, dodecahedral to 8 mm) **23:432n**
- Zoroastrian mine, Coolgardie (crystals) **18:30p**
- Austria**
- Frossnitzalpe, East Tyrol (bornite crystal with) **17:109p**
- Mitterberg mine, Salzburg **17:(110)**
- Tauern district, Carinthia **13:369–370**
- Bolivia**
- El Dragón mine, Potosí (micro grains) **21:138n**
- Oruro Dept. (3 localities) **6:126, 6:132**
- Brazil**
- Minas Gerais
- Itabira: **22:387n**; iron mines (palladian, 132g) **23:432n**; palladian, 5.8 cm crystalline nugget **22:214p, 22:216**
- Morro Velho mine: heavy leaves **15:(166p)**; leaves, equant micro crystals **4:227p, 4:228**
- Paraíba
- Locality not specified (purported inclusions in tourmaline) **22:387n**
- Various localities listed **13:390d**
- Canada**
- British Columbia
- Bralorne mine, near Goldbridge (spongy) **21:485**
- Good Hope group **2:207n**
- Grotto group, southwest of Hazelton (in thin sections) **2:206–207**
- Highland Bell mine, Beaverdell **20:(465)**
- Mt. Washington mine, Vancouver Island **15:(90)**
- Northwest Territories
- Giant Yellowknife mine **13:394–395n**
- Nova Scotia
- Acadia mines, Halifax County (disseminated in vein quartz) **13:338p**
- Baker's mine, Halifax County (disseminated in vein quartz) **13:338p**
- Borden lead, Hants County (55 oz. nugget) **13:341p**
- Crook Cove, Guysborough County **13:339p**
- Dufferin mine, Salmon River (crystals) **18:84n**
- Harrigan Cove, Halifax County (crystals) **13:340, 13:342p**
- Locality uncertain: leaves, crystals **18:84n**; octahedral crystals **13:341**
- Montague mine, Halifax County (in quartz) **13:341p**
- Tangier, Halifax County: 8 mm crystal **13:340**; masses **21:485n**
- West Gore, Hants County (crystals) **13:341n**
- Withrow mine, Hants County **18:84n**
- Ontario
- Ackerman mine, Madoc area (flakes) **13:111n**
- Leitch mine, near Lake Nipigon **13:(107)**
- Timmins area mines **17:(147)**
- Yukon
- Last Chance Creek (single crystals) **18:(84n)**
- Sonora Gulch, Hayes Creek (nuggets with tetradymite) **24:385n**
- Chile**
- Chuquicamata (unconfirmed) **9:323**
- Coquimbo (near) (thin coating on arborescent copper) **11:27**
- Inca de Oro, Copiapó district: small wires on/in chrysocolla **12:181p, 12:184n**; wires in chrysocolla **10:123**
- Paposo (wires with schwartzembergite) **15:160**
- China**
- Unspecified locality (3553 gm nugget) **18:329n**
- Czech Republic (formerly Czechoslovakia)**
- Krepice u Vodnam (near) (leaves to 10 cm) **22:460**
- England**
- Cornwall
- Redruth area (grains) **13:362n**
- Devon
- Hope's Nose: **14:206n**; dendritic, palladian **18:85–88c,p,q**
- Fiji**
- Emperor mine, Viti Levu **8:391n**
- France**
- Central Massif region **13:(362)**
- La Gardette mine, Isère (leaves, dendritic) **13:363n**
- Germany**
- Bavaria
- Bodenmais **13:(363)**
- Goldkronach, east of Bayreuth **13:(363)**
- Niedersachsen
- Rammelsberg **13:(363)**
- Rhine River (placer) **13:363**
- Greenland**
- Four localities (flakes, disseminated grains) **24:G15, 24:G17**
- Hungary**
- Verespatek (see Romania)
- Ireland**
- Mt. Croghant (placer) **13:(362)**
- Wicklow Mountains (placer) **13:(362)**
- Italy**
- Liguria
- Loreto mine, near Castiglione (small dendritic) **13:363n**
- Lombardy
- Macugnaga (near), Anzasca Valley **13:(363)**
- Lombardy/Valle d'Aosta
- Val di Ayes, Monte Rosa area **13:(363)**
- Piemonte
- Elvo River near Bessa **9:56**
- Po River near Turin (placer) **13:(363)**
- Macedonia (formerly Yugoslavia)**
- Allchar (minute flakes) **24:441**
- Mexico**
- Sonora
- Bacoachi **20:396**
- Grand Central mine **18:84n**
- Namibia**
- Tsumeb **8:T25n, 8:T83p**
- New Zealand**
- Royal Oak mine, Coromandel (6 mm leaves on arsenic) **1:113**
- Tui mine (minute inclusions) **6:29**
- Una mine, Thames (2.5 cm plates) **1:101ff**
- Norway**
- Kongsberg, Buskerud: **17:(35)**; "electrum" **13:359n**
- Papua New Guinea**
- Locality not specified (octahedral, cubic crystals to 6 mm) **21:490n**
- Mt. Kare: **24:(237), 25:377n**; crystals, leaves **22:53, 22:54p**
- Peru**
- "Eastern slope of Andes" **18:84n**
- Poland**
- Reichenstein, Silesia **13:(370)**
- Romania**
- Baia de Arieș **13:(374)**
- Baia Mare (formerly Nagybánya) (disseminated) **13:371**
- Baia Sprie (formerly Felsőbánya) (disseminated) **13:371**
- Boteș mine **13:(374)**
- Brad **13:374**
- Cavnic (formerly Kapnic) **13:(374)**
- Herja (formerly Kisbánya) (disseminated) **13:374**
- Maramureș district **13:371–374**
- Musariu mine, Brad (leaves, blades) **13:374n**
- Roșia Montana (formerly Verespatak): crystal-line leaves, elongated octahedrons, branches **13:360–374p,d**; leaves **18:84n, 24:237**
- Stanija (formerly Sztanisza) mine **13:(374)**
- Verespatek (see Roșia Montana)
- Zdraholt mine **13:(390d)**
- Zlatna (7 mm euhedral) **13:#6p** (cover photo), **13:374**
- Russia (formerly USSR)**
- Beresovsk (nuggets) **18:(245)**
- Kowcha, Ural Mountains (7 mm cube) **18:368n**
- Lena River district, Yakutsk: arborescent **22:216n**; cubic crystals **18:91p**
- Siberia (localities not specified): **13:(367p), 19:338n**; unprocessed placer gold available **18:89–90**
- Ural Mountains: localities not specified **19:39n,p**; various localities listed **13:391d**
- Scotland**
- Strathclyde/Dumfries and Galloway
- Leadhills-Wanlockhead district: **12:235–236**; placer **13:(362)**
- Slovakia (formerly Czechoslovakia)**
- Banská Štiavnica (formerly Schemnitz) (disseminated) **13:371**
- Kremnica (formerly Kremnitz) (leaves, dendrites) **13:371n**
- South Africa**
- Cape Province (numerous localities) **23:213**
- Locality not specified **23:209–228h,g,c,p**
- Major gold fields **23:209–228h,g,c,p**
- Transvaal
- Barberton gold field **23:215–218**
- Eersteling gold field **23:214**
- Van Dyk mine (skeletal octahedra to 17 mm) **23:222p**
- Witwatersrand gold fields (area extends into Orange Free State) **23:221–225p**
- Spain**
- Hiendelaencina district, Guadalajara **23:248n**
- Swaziland**
- Devils Reef (extension of Barberton field, South Africa) (in wad) **23:218**
- Sweden**
- Boliden, Västerbotten **13:(359)**
- Falun, Kopparberg **13:(359)**
- Switzerland**
- Felsberg (near), Graubünden **13:363**
- Goldene Sonne mine, Graubünden (leaves, dendrites) **13:363n**
- United States**
- Alabama
- Pinetucky mine, Randolph County **18:71–72**
- Alaska
- Locality unknown (13 cm crystalline leaf) **13:356p**
- Manley Hot Springs (1 kg+ nuggets) **21:481n**
- Arizona
- Bisbee district (mostly disseminated) **12:305**
- Cole shaft, Bisbee district (spots) **12:305**
- Defiance and adjoining mines, Cochise County (disseminated) **11:205**
- Dos Cabezas Mountains: **11:265n**; 20 cm specimen **9:192n**
- Fat Jack mine, Yavapai County (disseminated) **22:25**
- Harquahala gold mine, La Paz County (10 oz. refined bar) **13:328p**
- Lost mines **14:269–281**
- Magma mine (grains) **14:75**
- Mammoth mine, Pinal County: crystals **11:16–20**; disseminated **11:169**
- New Cornelia mine, Pima County (disseminated) **14:295**
- Rowley mine, Maricopa County **17:405n**
- Shattuck shaft, Bisbee district (crystalline wires) **12:304p, 12:305**

## GENERAL INDEX

- Tonopah-Belmont mine, Maricopa County **19:143**
- Uncle Sam shaft, Bisbee district (flakes) **12:305**
- Yuba mine, Santa Rita Mountains, Pima County (crystalline wire) **18:89, 18:91p**
- California
- Artru mine, Mariposa County **18:95p**
- Bald Mountain, near Sonora, Tuolumne County: **18:41–45, 18:62–64h,p**; with petzite **18:42p, 18:62**
- Bonanza mine, Trinity County **13:387p**
- Bonanza mine, Tuolumne County: **18:41–45, 18:62–64h,p**; crystalline **18:62**
- Carson Hill mine, Calaveras County (few large crystals) **18:92n**
- Colorado dike, Mariposa County **18:95–96**
- Colorado Quartz mine, Mariposa County: 19 cm crystalline group **9:38n, 9:194p**; skeletal octahedra **8:440p, 13:347–354c,p,q, 18:95–96c**
- Confidence mine, Tuolumne County **18:41–45, 18:62–64h,p, 18:62**
- Dick's claim, Placer County **19:116n,h**
- Diltz mine, Mariposa County **18:90–92c, 18:94p**
- Eagle's Nest claim, Placer County: **19:116n, 20:387**; dendritic to 15 cm **24:237n**
- 1886 collection sale catalog, 35 CA localities **23:7–13p**
- Eureka mine, Tuolumne County: **18:41–45, 18:62–64h,p**; sharp octahedrons **13:381p, 13:386**; 33 cm, 67 oz. crystalline mass **13:377p**
- Ford claim, Tuolumne County **18:41–45, 18:62–64h,p, 18:62**
- Gillis mine, Tuolumne County **18:41–45, 18:62–64h,p, 18:43p**
- Grave Yard Hill, Tuolumne County: **18:41–45, 18:62–64h,p**; hollow octahedron **18:37p**
- Grit mine, El Dorado County (Fricot nugget, 201 oz.) **13:382p, 13:386**
- Groveland (prob. Sullivan mine), Tuolumne County **18:41–45, 18:62–64h,p, 18:42p**
- Hidden Treasure mine, Tuolumne County: **18:41–45, 18:62–64h,p**; with altaite **18:43p**
- Jamestown mine, Tuolumne County: **18:41–45, 18:62–64h,p**; coarse leaves **25:7–14p**; groups of leaves to 30 cm **24:237**;
- Jumpers-Golden Rule mine, Tuolumne County: **18:41–45, 18:62–64h,p**; some with petzite **18:45**
- Knapp's Ranch placers, Tuolumne County **18:41–45, 18:62–64h,p, 18:63**
- Lazar mine, Tuolumne County **18:41–45, 18:62–64h,p, 18:62**
- Little Gem claim, Tuolumne County **18:45**
- Mariposa County (locality not specified) (5 mm skeletal octahedral) **13:(366p)**
- Mariposa mine, Inyo County: **19:341–342n**; octahedron in quartz **19:127**
- Michigan Bluff district, Placer County: **18:(245), 19:116n,h**; bright dendritic **13:384–385p**; octahedral, arborescent **18:92, 18:95p**
- Mockingbird mine, Mariposa County (crystalline) **18:95–96**
- Monitor-Mogul district, Alpine County (3 localities) (grains, blebs) **22:36**
- Mystery Wind tunnel, El Dorado County (crystalline plates) **25:46n**
- New York claim, Tuolumne County: **18:41–45, 18:62–64h,p**; placer **18:63**
- 121 crystallized gold localities **18:38–39**
- Oro Flame mine, Placer County (vermiform) **21:97**
- Red Ledge mine: branching, flat and euhedral octahedrons **13:349p, 13:351–353c,p,d**; large leaves **10:188p**; octahedral crystals **18:92n**
- Red Ledge mine, Nevada County (16 cm crystalline leaf) **13:376p, 13:383h**
- San Giuseppe mine, Tuolumne County: **18:41–45, 18:62–64h,p**; some 998 fine **18:62**
- 16 to 1 mine, Sierra County: octahedral **18:92**; sponge **12:388p**
- Soulsby mine, Tuolumne County **18:41–45, 18:62–64h,p, 18:62**
- Sources of locality and specimen information **18:36–37**
- Sugarman-Nigger group, Tuolumne County **18:41–45, 18:62–64h,p, 18:62**
- Table Mountain placers, Tuolumne County **18:41–45, 18:62–64h,p, 18:63**
- Thompson mine, Inyo County (assay results) **15:15n**
- Whiskey Hill, Tuolumne County: **18:41–45, 18:62–64h,p**; Wood's Creek nugget **18:45**
- Colorado
- Alice Glory Hole, Clear Creek County (some tetrahexahedral crystals) **18:187c,p**
- American mine, Park County (leaves) **7:289–291**
- American Tunnel (Sunnyside) mine, Silverton district: after petzite **7:284p, 7:302**; fine wires **14:245p**
- Breckenridge district, Summit County: **19:264–265, 19:269p**; crystals **18:54–55p**; leaves, wires **7:284–285p, 7:306p**
- Brooklyn mine, Silverton district (wires, crystals, leaves) **10:331**
- Cresson mine, Teller County (on sylvanite) **16:236n**
- Dixie mine, Clear Creek County: crystalline **10:330n**; dense leaves **16:500n**; leaves, wires, crystals **7:283n**
- Enterprise mine, Rico district (with rhodochrosite) **16:(212)**
- Farncomb Hill, Summit County: **18:60–61c, 19:264h**; parallel octahedral crystals **18:54p**
- Gold Anchor mine, Rico district **16:(212)**
- Golden Age mine, Boulder County (leaves, wires) **7:279**
- Golden Fleece mine, Hinsdale County **14:244**
- Gold Flake vein, Summit County ("Tom's Baby") **18:56–57p,h**
- Ground Hog mine, Eagle County (heavy wires) **7:284p, 7:286**
- Idarado mine, San Miguel/Ouray counties (sponge) **14:245p**
- Johnny Bull mine, Rico district (with gold tellurides) **16:(212)**
- Jones mine, Rico district (leaves, ribbons) **16:212**
- Leadville district **16:193**
- Lilian mine, Leadville district **16:189p**
- Little Jonny/lbex mine, Leadville district: wires, leaves **16:188–190p**; wire masses, wires protruding from sphalerite **7:288**
- National Belle mine, Ouray County **17:(235)**
- Orphan Boy mine, Boulder County (wires protruding from pyrite cubes) **7:280**
- Penn Hill, Park County (nuggets to several kg) **7:289**
- Printer Boy mine, Leadville district **16:180**
- Puzzle mine, Rico district **16:(212)**
- Rico Argentine mine, Rico district **16:(212)**
- San Juan Mountains **10:358n**
- Sheridan mine, San Miguel County (equant crystals) **14:245p**
- Slide mine, Boulder County (crystals) **7:280n**
- Smuggler mine, San Miguel County (leaves) **14:245p**
- Sunnyside (American Tunnel) mine, San Juan County (wire, crystalline) **10:329**
- Tomboy and Smuggler mines, Ouray/San Miguel counties (thick leaves) **7:306**
- Uncle Remus mine, Rico district **16:(212)**
- Wapiti Mining Co. claims, Summit County (along calcite cleavage planes) **18:54–55p**
- Winnie-Leuma mine, Leadville district (leaves, wires) **16:193**
- Georgia
- Battle Branch mine, Lumpkin County: crystalline **15:145p, 18:73p**; crystalline, some with galena **18:69–70**
- Boly Field mine, Lumpkin County: crystalline **15:145p, 18:73p**; with tellurobis-muthite and pyrrhotite **18:68**
- Calhoun mine, Lumpkin County (crystalline) **15:145p, 18:73p, 18:70**
- Findley mine, Lumpkin County: crystalline **15:145p, 18:73p**; some with galena **18:70**
- Graves Mountain (traces) **16:448–449**
- Loud mine, White County (wire and crystalline) **18:71, 18:73p**
- Magruder mine, Lincoln County (crystalline) **18:73p**
- Potosi mine, Hall County (1 cm octahedral crystal) **18:70–71**
- Tallapoosa County **18:73p**
- Turkey Hill mine (crystalline) **18:70**
- Michigan
- Holyoke mine, Marquette County **17:(117)**
- Ropes mine, Marquette County **17:118–121**
- Montana
- Cooley Gulch, near Butte (Highland Centennial nugget, 1 kg) **24:317–318p**
- Large nuggets **24:317**
- Nevada
- Echo Bay's mine, Round Mountain **24:48n**
- Getchell mine, Humboldt County: **19:(255)**; micro grains **16:19–20**
- Killie mine, Elko County (trace amounts) **18:416**
- Northumberland mine, Nye County (disseminated) **16:40**
- Willow Creek, Pershing County (micro crystals) **22:383n**
- Winnemucca, Humboldt County **20:390**
- New Mexico
- San Pedro mine, Santa Fe County: **20:391**; hopper crystals **18:361n**; in calcite **20:63**
- Stonewall mine, Socorro County **20:20**
- North Carolina
- Gold Hill, Cabarrus County (prob. locality) (dendritic) **18:77p**
- Reed gold mine, Cabarrus County (nugget) **18:76p**
- Oregon
- Last Chance mine, Baker County **13:398n**
- Utah
- Gold Hill mine (minute drops) **24:20**
- Washington
- Lucky Break mine, Skamania County **18:361n**
- Wisconsin
- Rib Mountain, Marathon County **12:95**
- Venezuela
- Locality not specified (possibly fakes) **22:53**
- Santa Elena area: **19:271n**; branching crystals **21:501n**; faked octahedral crystals **23:283–284p,q**; loose crystals **18:89c, 18:90p**
- Wales
- Clywd
- Moel Famau, west of Mold **18:(375)**
- Dyfed
- Gamallt, near Aberystwyth **18:(375)**

## GENERAL INDEX

Ogoau (Roman Deep) mine, near Pumpsaint **18**:(375)

Gwynedd  
Cefn Coch mine **18**:(375)  
Clogau (St. David's) mine **18**:(375)  
Dolgellau gold belt **18**:375  
Gwynfynydd mine **18**:(375)  
Vigra mine **18**:(375)

Llanuwchllyn  
Castell Carn Dochan mine **18**:375n

**Zaire**  
Shinkolobwe mine **20**:276  
Swambo mine **20**:274

**GOLDFIELDITE**

**United States**  
Arizona  
Campbell shaft, Bisbee **24**:429n  
Nevada  
Mohawk Combination lease, Esmeralda County **16**:47h

**GOLDICHITE**

**United States**  
Utah  
Dexter No. 7 mine, Emery County **19**:333n

**GOLDMANITE**

**United States**  
New Jersey  
Sterling Hill (minute crystals) **21**:426q  
New Mexico  
Laguna uranium district, Valencia County **20**:9–10

**GONIOMETERS**

Lapel pins **20**:323  
Microscope-mounted **7**:323–326  
One-circle optical goniometer: construction **1**:56–57; use **1**:89–90  
Reproduction of antique models: Böhm & Wiedemann **20**:100; not identified **21**:123; P. Stoe **20**:2

**GONNARDITE**

**Australia**  
Victoria  
Bundoora (near) (3 mm balls) **21**:487n

**Germany**  
Rheinland-Pfalz  
Laacher See area, Eifel district: crusts **8**:322n; spheres **10**:95p

**United States**  
Colorado  
Table Mountain, Jefferson County **19**:162q, **19**:169

**GONYERITE**

**South Africa**  
Cape Province  
Wessels mine (some crystals) **22**:285

**GORCEIXITE**

**Australia**  
South Australia  
Iron Monarch quarry, Iron Knob (casts after apatite) **12**:106p

**Brazil**  
Minas Gerais  
Tejucana mine, Diamantina **2**:10n

**Canada**  
Yukon  
Rapid Creek: crystals **8**:(517); euhedral to 5 mm **23**:Y21–22c,p

**United States**  
Alabama/Georgia  
Indian Mountain **20**:358

**GORDONITE**

**Australia**  
Western Australia  
Milgun Station **9**:(113)

**Canada**  
Yukon  
Rapid Creek (sheaves to 2 mm) **23**:Y22

**United States**  
South Dakota  
Tip Top mine **17**:242  
Utah  
Fairfield, Utah County: **8**:(517); crystals **6**:10h

**GÖRGEYITE**

**Kazakhstan (formerly USSR)**  
Inderskoje mine, Gurijev Oblast (crystals to 8 cm) **24**:389n

**GORMANITE**

**Canada**  
Yukon  
Big Fish River (gormanite-souzalite; acicular) **21**:486n

**United States**  
Arizona  
White Tailed Deer mine, Bisbee: in calcite **18**:359n; micro crystals **24**:429h

**GOSLARITE**

**Australia**  
New South Wales  
South mine, Broken Hill (stalactitic) **7**:31

**Austria**  
Bleiberg district **17**:363

**Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12**:(250)

**United States**  
Arizona  
Campbell shaft, Bisbee district (post-mining crusts) **12**:305  
Junction shaft, Bisbee district (stalactitic) **12**:306  
California  
Darwin mines, Inyo County **15**:(15)  
New Mexico  
Magdalena district, Socorro County **20**:20

**Zambia**  
Broken Hill mine **11**:347

**GÖTZENITE**

**Canada**  
Québec  
Mt. St-Hilaire (acicular to 1 cm) **21**:313p

**Norway**  
Oslofjord/Langesundsfjord region (sharp to 5 cm) **22**:52n

**GOUDEYITE**

**Namibia**  
Tsumeb (sprays to 1 cm) **24**:235

**United States**  
Nevada  
Majuba Hill mine: **16**:47h; massive **16**:66

**GOWERITE**

**South Africa**  
Cape Province  
N'Chwaning II mine (fibers) **22**:285

**United States**  
California  
Hardscramble (Hardscrabble) mine, Inyo County **8**:431n

**GOYAZITE**

In pegmatite environments **4**:125  
Numerous world occurrences **4**:120

**Brazil**  
Paraíba  
Alto Benedito pegmatite, near Picuí (barian; crystals to 1 mm) **22**:185n  
Alto Bernardino, near Picuí (barian, micro crystals) **12**:379p,q

**Canada**  
Yukon  
Rapid Creek (euhedral to 6 mm) **23**:Y22–23p,d,c

**United States**  
Colorado  
Indiana and Topeka-Kentucky Giant veins, Ouray County (micro crystals) **25**:373, **25**:374p  
Sweet Home mine, Park County (crystals to 6 mm) **10**:333, **10**:334p, **25**:373n  
Maine  
Bell Pit, Oxford County: **1**:139; colorless rhombs **1**:114; micro crystals, “svanbergite” id as **6**:203  
New Hampshire  
Palermo #1 mine **4**:125  
Virginia  
Willis Mountain mine, Buckingham County **23**:(428)

**GRAEMITE**

**United States**  
Arizona  
Cole shaft, Bisbee: after teinite crystals to 2 cm **24**:429n; blades, some after teinite **12**:304p, **12**:306d,h; newly described, platy after teinite **6**:32–34h,d,c,q  
Dome Rock Mountains, Yuma County **6**:33

**GRAFTONITE**

In pegmatite environments **4**:109–110  
Numerous world occurrences **4**:110, **4**:117–118

**Brazil**  
Minas Gerais  
Énio pegmatite, near Galiléia (dendritic in albite) **12**:68, **12**:70p

**United States**  
Colorado  
Krystal Krown, Purple Haze, and Rainbows  
End claims, Larimar County **22**:382n

**GRANTSITE**

**United States**  
New Mexico  
F-33 mine, Valencia County **20**:10

**GRAPHITE**

**Afghanistan**  
Gugali (plates to several mm) **21**:487n

**Australia**  
New South Wales  
Kintore opencut, Broken Hill **19**:430  
Queensland  
Mt. Isa mine **19**:481

**Canada**  
Ontario  
Silver Islet mine **17**:(59)  
Virginia mine, Haliburton County (1 cm rosettes) **13**:76p  
Québec  
Mt. St-Hilaire (graphite-2H; minute flakes) **21**:313

**England**  
Derby  
Mill Close mine, Wensley (in calcite) **14**:15n

## GENERAL INDEX

### Greenland

- Narssárssuk (minute platy) **5**:122  
 Nordre Strømfjord (north of) (crystals to several cm) **24**:G15

### Norway

- Kongsberg **17**:33–34q

### Spain

- Egui quarries, Navarra (massive) **22**:141n

### United States

- Arizona  
 Dallas shaft, Bisbee district (coating hematite) **12**:306
- California  
 Crestmore quarry, Riverside County (twinned euhedral) **22**:427–432c,d,p  
 Jensen quarry, Riverside County (3 mm crystals) **15**:288n  
 Kalkar quarry, Santa Cruz County **17**:320  
 San Bernardino County (free-standing crystals) **23**:444
- Colorado  
 Silverton district, San Juan County **10**:358n
- Connecticut  
 Gillette pegmatite, Middlesex County **23**:25
- Maine  
 Mt. Mica, Oxford County **16**:372n
- Nevada  
 Getchell mine, Humboldt County: **19**:(255); massive **16**:20
- New Jersey  
 Buckwheat open pit, Franklin (micro) **14**:188  
 Sterling Hill (1 mm tabular) **21**:426
- New York  
 Lead Hill (Chilson Hill) mine, Essex County: **18**:433n; crystals to 5 mm **14**:25–30c,p
- Pennsylvania  
 French Creek mine (disseminated flakes) **25**:115n

### GRATONITE

#### Namibia

- Tsumeb (grains) **8**:T25n

### GREAT BRITAIN

- See England; United Kingdom*

### GREECE

- Aghia Marina, Seriphos, Kykladhes **22**:304–305s,m  
 Aghia Triada, Seriphos, Kykladhes **22**:304–305s,m  
 Almiros, Seriphos, Kykladhes **22**:304s,m  
 Avessalos, Seriphos, Kykladhes **22**:304s,m  
 Christiana mine, Laurium, Sterea Ellas **25**:279s  
 Dráma **19**:337s  
 Kamaréza mine, Laurium, Sterea Ellas **7**:114–125h,g,m, **17**:183s, **25**:279–280s  
 Kassandra Peninsula, Macedonia **9**:221s, **9**:222s  
 Koutalas, Seriphos, Kykladhes **19**:124s, **22**:304s,m  
 Laurium, Sterea Ellas **4**:262–263, **6**:35h, **7**:114–125h,g,m, **9**:113s, **9**:134s, **11**:299–301s, **13**:170s, **15**:114s, **17**:183–190m,p,h, **17**:189b, **20**:181–182s, **25**:279–280s  
 Megala Pifka, Laurium area, Sterea Ellas **25**:280s  
 Mega Livadi, Seriphos, Kykladhes **22**:304m, **22**:305s  
 Mega Xhorio, Seriphos, Kykladhes (Cyclades) **18**:366s, **19**:337s, **20**:395s, **22**:304–305s,m  
 Minerals newsletter **17**:228  
 Plaka mine, Laurium, Sterea Ellas **7**:114–125h,g,m, **25**:280s  
 Seriphos, Kykladhes (Cyclades) **18**:162s, **22**:303–308h,g,m,p  
 Soureza, Laurium area, Sterea Ellas **25**:280s  
 Xánthi, Thraki **9**:134s

### GREENLAND

- Danish possession; official name, Kalaallit Nunaat*  
 Alkaline igneous areas **24**:G18–47  
 Amitsoq, Nanortalik area **24**:G15s  
 Blaafjeld, Uivfaq, Disko Island **24**:G52g,h  
 Black Angel, Marmorilik (Maarmorilik) **24**:G15s  
 Disko Island (Qeqertarsuaq) **24**:G50p, **24**:G52h,g  
 Displays at Danish national museum **22**:44  
 Fiskefjord (Niagununaq), north of Godthåbsfjord **24**:G15s  
 Fiskeneset (Qeqertarsuaq) region, south of Godthåb (Nuuk) **11**:93–96m,h,g,p, **24**:G10–14m,g  
 Frederik VII mine, near Julianehåb (Qaqortoq) **24**:G15s  
 Frederikshåb (near) **24**:G15s  
 Gardiner complex, beyond head of Kangerdlugssuaq (Kangerlussuaq) Fjord **16**:485–494h,g,m,p, **18**:357s, **24**:G53–56p,h,g  
 Godthåb district **18**:357s  
 Godthåbsfjord (Nuup Kangerlua) area, east of Godthåb (Nuuk) **24**:G10m, **24**:G14–15g  
 Grønmedal-lka complex, east of Kûngnât (Kuunaat) complex **24**:G47g  
 Igdlunguak **5**:124s  
 Ilímaussaq alkaline complex, Tunugdliarfik (Tunulliarfik) Fjord, east of Narssaq (Narsaq) **8**:390s, **8**:517s, **22**:48s, **24**:G18–28m,h,g,p  
 Ivigtut (Ivittut), Arsuk Fjord (Ilorput) **4**:126s, **24**:G29–36h,m,g,p  
 Ivigtut-Narssárssuk region, Samuel G. Gordon 1923 expedition to **5**:59–66, **5**:115–127h,p,m  
 Ivisártoq (Ivisaartoq) Peninsula, Godthåbsfjord area, east of Godthåb (Nuuk) **2**:27h,g, **2**:28–29s, **2**:101h, **2**:102m, **18**:357s, **24**:G14s  
 Kangerdluarssuk (Kangerluarsuk) Fjord, east of Sukkertoppen (Maniitsoq) **5**:123–127h,g,p, **24**:G15g,s  
 Kobbermine Bugt, Ivigtut area **24**:G15s  
 Kræmer ø intrusion, Kangerdlugssuaq (Kangerlussuaq) **24**:G53g  
 Kûngnât (Kuunaat) complex, near Arsuk Fjord (Ilorput) **24**:G47g  
 Kvanefjeld area, Ilímaussaq complex **8**:517s, **24**:G23s, **24**:G26–27s  
 Lersletten (Naternaq), east of Egedesminde (Aasiaat) **24**:G15s  
 Locality names, map **24**:G5, **24**:G10  
*Minerals of Greenland* **2**:28b  
 Nákâlâq, Kvanefjeld area, Ilímaussaq complex **24**:G23s  
 Narssárssuk (Narsarsuaq) pegmatite, Igaliko complex, between Tunugdliarfik (Tunulliarfik) and Igaliko (Igalikup) fjords **5**:116–123h,g,p, **7**:79–82g, **18**:18:357s, **24**:G37–47p,h,m,g  
 Naujakasik, Tunugdliarfik (Tunulliarfik) Fjord **8**:517s, **24**:G23s  
 Navarana Fjord, northeast Freuchen Land **24**:G49  
 Niakornaq, east of Disko Island **24**:G52  
 Nordre Strømfjord (Nassuttoq), midway between Hosteinsborg (Sisimiut) and Egedesminde (Aasiaat) **24**:G15g,s  
 Nunarsuit Peninsula **24**:G17  
 Qaqarsuk carbonatite complex, southeast of Sukkertoppen (Maniitsoq) **24**:G48p,g  
 Qaqarsuaq, Aluk, north of Prins Christiansund weather station **24**:G17h  
 Randbøldal area, northeast Greenland **24**:G49g  
 Ravens Storø island, north of Frederikshåb Isblink glacier **24**:G15g,s  
 Sarfartóq carbonatite complex, near Søndre Strømfjord (Kangerlussuaq) **24**:G48g  
 Scaphites Ravine, Kugsinínguak **24**:G52  
 Sermiligárssuk (Sermiligaarsuk) Fjord, Ivigtut area **24**:G15s

- Sermitsiaq Island, Godthåbsfjord, east of Godthåb (Nuuk) **24**:G14s  
 Sødalen, innermost Miki Fjord **24**:G52s  
 Special issue **24**:#2m,h,p,g  
 Sulfide localities (list) **24**:G15  
 Taseq slope, Ilímaussaq complex **9**:113s, **24**:G26s  
 Torsucattak Fjord, Nunarsuit Peninsula **24**:G17  
 Tugtup agtakórfa, coast of Tunugdliarfik (Tunulliarfik), Ilímaussaq complex **24**:G26s  
 Tunugdliarfik **5**:123–127h,g,p  
 Tupertalik, east of Sukkertoppen (Maniitsoq) **24**:G15g,s  
 Uivfaq (Uiffaq), Disko Island **24**:G52g

### GREENOCKITE

#### Austria

- Bleiberg district (crusts) **17**:363

#### Canada

- British Columbia  
 Silver Standard mine (crystals) **2**:204  
 Northwest Territories  
 Nanisivik mine (coating) **21**:533

#### England

- Derby  
 Fall Hill quarry, Ashover (coatings; poss. hawleyite) **14**:17  
 Mill Close mine (coatings; poss. hawleyite) **14**:17

#### Greece

- Laurium area (powdery) **7**:117n

#### Namibia

- Tsumeb (grains, powder; some zincian) **8**:T25–26n, **8**:T69p

#### New Zealand

- Tui mine (thick crusts) **6**:29

#### Scotland

- Strathclyde  
 Bishopton railway tunnel **4**:79  
 Strathclyde/Dumfries and Galloway  
 Leadhills-Wanlockhead district **12**:(250)

#### Slovenia (formerly Yugoslavia)

- Mežica mine (powdery coating) **22**:104n

#### United States

- Arkansas  
 Rush Creek district, Marion County (traces) **24**:298
- Arizona  
 Bisbee district (probably hawleyite) **12**:306
- California  
 Kalkar quarry, Santa Cruz County **17**:320n
- Colorado  
 Camp Bird mine, Ouray County **7**:303n, **10**:358n  
 Idarado mine, Telluride **10**:329n
- Michigan  
 White Pine mine, Ontonagon County (traces) **23**:M65
- New Jersey  
 Paterson area, Passaic County (micro crystals) **9**:173, **9**:179p  
 Route 80 roadcut, Passaic County (2 mm crystal) **1**:173  
 Sterling Hill mine (minute acicular) **10**:164p
- New Mexico  
 Kelly mine, Socorro County **20**:20
- Tennessee  
 Jefferson City (near), Jefferson County (coatings) **3**:91

#### Wales

- Dyfed  
 Bwlch-Glas mine (yellow films) **13**:151n

### GREIGITE

#### Canada

- Québec  
 Mt. St-Hilaire (anhedral grains) **21**:313

## GENERAL INDEX

- United States**  
California  
Boron, Kern County **17:139–140p**
- GRICEITE**
- Canada**  
Québec  
Mt. St-Hilaire (powdery masses; minute cubes) **21:313p**  
Poudrette quarry: **24:314n**; some after unknown mineral **18:363–364**
- GRIPHITE**
- In pegmatite environments **4:112**
- Australia**  
Northern Territory  
Mt. Ida **4:112**
- United States**  
South Dakota  
Sitting Bull and Riverton (Everly) pegmatites, Pennington County: **17:298**; masses to 2 m **4:112**
- GROSSULAR**
- Chemical and physical properties of V, Cr, and Fe gem grossulars **24:65**  
Chromian, vs. uvarovite **10:42**
- Austria**  
Carinthia/Styria  
Brandrücken (near), Koralpe (“hessonite”) **17:(110)**  
Schwarze Wand, Salzburg (“hessonite”) **17:(107)**
- Canada**  
Ontario  
Coe Hill (near) **13:75n**  
Marmoraton mines (andradite-grossular) **13:75**  
York River skarn near Bancroft: orange dodecahedral to 3 cm **25:214**; to 5 cm **13:75**
- Québec  
B.C. mine, Thetford **20:(393)**  
Beaver mine, Thetford **20:(393)**  
Jeffrey mine: **10:74–75p,q,d,c**, **10:79q**, **20:(393)**; opaque white **17:339n**; various colors **9:248p**  
McBride property, Comte Papineau euhedral to 8 cm, some gemmy **24:68q,c**  
Mt. St-Hilaire: some enclosing calcite, albite **19:325–328p**; trapezohedral to 10 mm **21:313**  
Orford mine (“uvarovite” id as) **25:340q,c**, **25:342p**  
Thetford Mines: **21:486n**; colorless **2:46**
- Italy**  
Liguria  
Faiallo Pass **10:86n**  
Val Gave (red; with cube, tetrahedron faces) **10:86**
- Lombardy  
Francia (colorless) **10:87**, **10:89p**
- Piemonte  
Laietto, Val di Susa (“hessonite,” 1 cm) **23:434n**
- Sicily  
Lachea, Cyclopean Islands **17:205n**
- Mexico**  
Coahuila  
Sierra de La Cruz (euhedral red to 3 cm) **25:377n**, **25:379p**
- Sonora  
Rainbow Garnet mine (grossular-andradite; opalescent) **24:392**
- Norway**  
Beiaren, Nordland (gemmy orange to 3 cm) **22:51p**, **22:52**  
Oslo, Akershus (euhedral brown to 3.5 cm) **22:51**
- Russia (formerly USSR)**  
Achtaragda (Achtarand) River **18:159–160n**  
Vilui (Wilui) River district **18:432n**
- Scotland**  
Strathclyde  
Loanhead quarry, Beith **19:337n**
- South Africa**  
Cape Province  
Wessels mine (anhedral) **22:285**
- United States**  
Arizona  
Magma mine **14:(82)**  
Sacramento Hill area, Bisbee district (granular masses) **12:306**
- California  
Coyote Front Range, Inyo County (to 2 cm) **23:423**  
Jensen quarry, Riverside County (lavendar, amber) **15:279**, **15:288n**
- Colorado  
Italian Mountain area, Gunnison County **15:83c,p**
- Maine  
East Woodstock (shells enclosing calcite) **19:326n**  
Sanford deposit, York County (red to 5 cm) **24:362**
- Maryland  
Rockville Crushed Stone Co. quarry, Hunting Hill, Montgomery County (“hessonite”) **17:127n**
- Montana  
Bald Mountain, Jefferson County (crystals to 3 cm) **7:20**
- New Jersey  
Franklin/Sterling Hill **19:274n**
- New Mexico  
Magdalena district, Socorro County **20:20**  
Tungsten Hill, Luna County (spessartine-grossular) **20:57**
- Pennsylvania  
French Creek mine **25:115**
- Pennsylvania/Maryland  
Line pit, State Line district (green chromian; poss. uvarovite) **12:155**
- Utah  
Wah Wah Mountains, Beaver County (2 cm green) **21:484n**
- Vermont  
Named state’s “official gem” **23:455**
- Washington  
Denny Mountain, King County **8:15–18**  
Vesper Peak, Snohomish County (micro, with cube faces) **10:297**
- Wisconsin  
Rib Mountain, Marathon County (to 5 mm) **12:96**
- GROTHINE**
- Discredited, equals norbergite **12:377–378h,q**
- GROUND HOG DAY**
- Suggestion to adopt as mineral collectors’ holiday **14:61**, **14:206**
- GROUTITE**
- Identifying **4:289**
- Australia**  
Western Australia  
Ashburton Downs (massive) **24:212**
- Austria**  
Bleiberg district (reniform) **17:363**
- Canada**  
Québec  
Asbestos (micro acicular) **10:42**  
Jeffrey mine (micro acicular) **10:76**
- Mexico**  
Baja California  
Gavilan mine (ramsdellite after) **14:110d,c**, **14:112**
- South Africa**  
Cape Province  
Gloria mine (to 3 mm) **22:286**  
N’Chwaning II mine **22:286**
- United States**  
Arizona  
Apache County? (2 mm needles in chalcedony vugs) **16:149p**  
Campbell shaft, Bisbee district **12:306**  
Malpais Hill, Pinal County (ramsdellite after) **14:110–112d**
- Minnesota  
Robert mine, Cuyuna iron range: **20:390**; splendant blocky **21:96p**, **21:97**
- New Mexico  
Lake Valley, Sierra County (ramsdellite after) **14:110d,c**, **14:112**
- New York  
2½ mine, Talcville, St. Lawrence County (micro blades) **9:94p**
- GUANAJUATITE**
- Canada**  
NT  
Port Radium **20:(207)**
- United States**  
California  
Essex mine, Inyo County **15:(15)**  
Thompson mine, Inyo County **15:(15)**
- GUATEMALA**
- Mineralogical Studies on Guatemalan Jade* (1957) reprinted 1984 **15:311**
- GUDMUNDITE**
- Australia**  
Queensland  
Mt. Isa mine (some after stilpnomelane) **19:481**
- Canada**  
Québec  
Lac Nicolet mine, Wolfe County **18:(363)**
- Czech Republic (formerly Czechoslovakia)**  
Přibram **19:(116)**
- GUERINITE**
- France**  
Gabe Gottes mine, Ste. Marie-aux-Mines **8:(391)**
- Germany**  
Hessen  
Richelsdorf **15:111p**, **19:(256)**
- Obersachsen  
Daniel mine, Schneeberg **19:(256)**
- United States**  
Michigan  
Mohawk mine, Keweenaw County **23:M66**
- Nevada  
Getchell mine, Humboldt County **19:253–254p**
- New Jersey  
Sterling Hill mine (efflorescences) **13:36**
- GUETTARDITE**
- Canada**  
Ontario  
Madoc (near) **13:97p,q**  
Taylor farm, near Madoc **13:(80)**

- United States**  
 Colorado  
 Brobdignag prospect, San Juan County: 8:(391), 10:358n; some "zinkenite" id as 7:275
- GUILLEMINITE**
- Zaire**  
 Kolwezi mine 8:(390)  
 Musonoi mine 9:33, 9:(114), 20:280  
 Shaba (formerly Katanga) 13:44, 13:45p  
 Shinkolobwe mine 20:280
- GUINEA**
- Kassa, Îles de Los 9:114s  
 Rouma, Îles de Los 9:113s
- "GUMMITE"
- Mixture of yellowish secondary uranium minerals*
- Brazil**  
 Minas Gerais  
 Córrego do Urucum pegmatite (after uraniumite) 17:313
- United States**  
 Texas  
 Clear Creek pegmatite, Burnet County 8:90
- GUNNINGITE**
- Canada**  
 British Columbia  
 Willett mine, near Lardeau 15:92p
- United States**  
 Colorado  
 Silver Plume mines, Clear Creek County (post-collecting coating) 7:275
- GUSTAVITE**
- United States**  
 California  
 Darwin mines, Inyo County 15:15n  
 Nevada  
 Outlaw mine, Nye County (micro lamellae) 22:178
- GUYANA**
- Map of gold occurrences 18:89m
- GYPSUM**
- Toxicity 11:10
- Algeria**  
 Locality not specified (sand-included, clusters to 2 m high) 11:29
- Australia**  
 Queensland  
 Mt. Elliott mine ("selenite," arborescent copper in some) 19:489  
 Mt. Isa mine (some post-mining) 19:481  
 South Australia  
 Lake Gilles, near Iron Knob (several twin habits) 13:187–191p,c,d  
 Moonta mines (post-mining) 19:414  
 Wallaroo mines 19:414  
 Western Australia  
 Anticline prospect, Ashburton Downs 24:212
- Austria**  
 Bleiberg district (acicular) 17:363
- Bolivia**  
 El Dragón mine, Potosí (2 mm "selenite" crystals) 21:142n
- Brazil**  
 Minas Gerais  
 Morro Velho gold mine (columnar) 4:228  
 Ribeira Valley area (fibrous) 6:283n  
 São Paulo  
 Boquirá mine (fibrous) 6:283n
- Canada**  
 Alberta  
 Willow Creek, near Nanton (clear with fl. hourglass zone) 24:49n  
 British Columbia  
 Bluebell mine, Riondel (euhedral to 13 cm) 8:35–36  
 Spatsum claim, near Cache Creek 15:(92)  
 Manitoba  
 Red River floodway, near Winnipeg 22:485n; clusters, rosettes 22:384–385p  
 Northwest Territories  
 Nanisivik mine ("selenite" to 7 cm) 21:522, 21:524p  
 Québec  
 Mt. St-Hilaire (bladed to 5 mm) 21:313  
 Yukon  
 Rapid Creek/Big Fish River area (coatings) 23:Y37
- Chile**  
 Chañarcillo 10:203  
 Chuquicamata 9:328
- England**  
 Derby  
 Chellaston ("satin spar") 14:23n  
 Derbyshire orefield (post-mining needles) 14:23
- France**  
 Angervilliers (near), Essone (white rosettes to 10 cm) 22:390n
- Greece**  
 Kamaréza mine, Laurium ("selenite" to 1 m; pink opaque crystals) 7:123
- Greenland**  
 Navarana Fjord (crystalline) 24:G49  
 Sarfartôq complex (fibrous acicular) 24:G49n
- Italy**  
 Tuscany  
 Carrara region ("selenite") 18:286q  
 Fantiscritti quarry ("selenite") 18:286p  
 Niccioleta mine, Tuscany: "selenite" 21:250; "selenite" to 20 cm 23:434n; "selenite" to 2.5 m 10:286p  
 Pereta mine "selenite" 15:21  
 Upper Valdarno 25:298
- Macedonia (formerly Yugoslavia)**  
 Allchar (stalactitic to 25 cm) 24:441
- Mexico**  
 Localities not specified: clear crystals to 1 m 10:32; oil-green prismatic 14:176n  
 Chihuahua  
 El Potosí mine (cave formations; museum diorama) 19:267  
 Los Lamentos (efflorescences; hanging fibers) 11:285  
 Naica: post-mining crystals to 20 cm 14:385; "selenite" swords 19:267  
 San Antonio mine, Santa Eulalia district: cave of 9 m crystals discovered 14:169–170p; "selenite," 1 m crystals 18:367n  
 Xochitl Cavern, Naica ("selenite" swords; Denver museum diorama) 19:267
- Morocco**  
 Touissit ("selenite") 17:341n
- Namibia**  
 Tsumeb 8:T26n, 8:T59p
- Poland**  
 Kraków Saltworks mine, Wieliczka 19:(33)  
 Machow mine, near Tarnobrzeg (crystals to 4 m) 23:32
- Slovenia (formerly Yugoslavia)**  
 Mežica mine (elongated crystals) 22:104n
- South Africa**  
 Cape Province  
 Hotazel mine 9:148  
 N'Chwaning I mine: 9:148; 29 cm euhedral 22:286
- Spain**  
 Alcandre, Logroño 18:301n  
 Fuentes de Ebro, Zaragoza province: 20:485; "selenite" 20:143–144p  
 Gorguel, Murcia: sprays to 2 cm 25:49p, 25:50; truck-sized crystal-lined cavity 25:222  
 Pina de Ebro, Zaragoza province: 18:301n; "selenite" 18:245n  
 Zaragoza: 19:115n, 19:122n; see also Gypsum—Spain—Fuentes de Ebro
- Turkmenistan (formerly USSR)**  
 Gaurdak ("selenite") 23:280
- United States**  
 Arkansas  
 Rush Creek district, Marion County 24:298  
 Arizona  
 Blue Ball mine, Gila County 20:449  
 Campbell shaft, Bisbee district (post-mining crystals to 2 inches) 12:306  
 Camp Verde mine, Yavapai County (clear masses; after glauberite) 14:90  
 Dallas shaft, Bisbee district 12:306  
 Junction shaft, Bisbee district (crystal stalactites, post-mining crystals to 7.5 cm) 12:306  
 Magma mine 14:(82)  
 Mammoth mine, Pinal County (unconfirmed) 11:177  
 Mission mine, Pima County (micro dendritic copper in) 11:264n, 24:311n, 24:312p  
 New Cornelia mine, Pima County (crystals; large clear masses) 14:295–296  
 Ray mine (clear sprays to 8 cm) 14:320  
 Southwest mine, Bisbee district (ram's horns to 1 meter, crystals to 20 cm) 12:306  
 Tonopah-Belmont mine, Maricopa County ("ram's-horn") 19:143  
 California  
 Defiance mine, Inyo County ("selenite") 15:15n  
 Geysers, The, Sonoma County (fibrous, crude crystals) 24:350  
 Jensen quarry, Riverside County ("satin spar") 15:288n  
 Kalkar quarry, Santa Cruz County 17:323n  
 Stayton mine, Stayton district 20:433  
 Thompson mine, Inyo County ("selenite") 15:14–15p,n  
 Yellow Jacket mine, Stayton district 20:433  
 Zaca mine, Alpine County (clear crystals to 2.5 cm) 22:36  
 Colorado  
 Camp Bird mine, Ouray County (6.5 cm clear crystal) 14:146p  
 Hummer mine, Montrose County (acicular metahewettite in) 24:312p, 24:313–314n  
 Indiana and Topeka-Kentucky Giant veins, Ouray County (micro crystals) 25:373  
 San Juan County 10:358n  
 Indiana  
 Hoosier Stone and Concrete Corp. quarry, Washington County (transparent masses) 14:9  
 Iowa  
 Pint's quarry, Raymond, Black Hawk County 20:478  
 Maryland  
 Fort Foote (near), Prince Georges County (crystals to 15 cm) 1:128

## GENERAL INDEX

---

- Michigan  
Keweenaw Peninsula (prob. post-mining) **23:M66**
- Nevada  
Getchell mine, Humboldt County (radiating blades) **16:20, 16:22p**  
Majuba Hill mine: crusts **16:66**; efflorescences, fibers **24:178**  
Northumberland mine, Nye County (fibrous; crystals to 5 mm) **16:40**
- New Jersey  
Chimney Rock quarry, Somerset County ("satin spar"; crystals) **9:30**  
Paterson area, Passaic County **9:175**
- New Mexico  
Blanchard claims, Socorro **19:332n, 20:40**  
Hansonburg district, Socorro **20:40**  
Juanita mine, Socorro ("ram's horn") **20:20**
- Oklahoma  
Great Salt Plains National Wildlife Refuge, near Jet, Alfalfa County ("selenite" with "hourglass" sand inclusions) **7:159**
- Pennsylvania  
French Creek mine (post-mining) **25:115**
- South Dakota  
Elk Creek, Meade County **18:128**  
Hoover area, Butte County (some "ram's horn" habit) **18:128p**
- Texas  
Terlingua district (ram's horn) **21:230**
- Utah  
Apex mine, Washington County (azurite crusts after) **4:5**  
Deep Creek Wash, Caineville, Wayne County: **19:333s**; "selenite," 1 m long **18:361n**
- West Virginia  
Hagans (post-mining) **19:117n**
- 
- GYROLITE**
- 
- Australia**  
New South Wales  
Ardglen quarry **19:399–400c,d**
- Denmark**  
Ljósá, Færoe Islands (thin tabular to 5 mm) **12:24**
- Iceland**  
Breidhdalur-Berufjörður area **12:24**
- India**  
Bombay (puffballs to 5 cm) **7:253**
- Ireland**  
Locality not specified (micro) **10:174**
- United States**
- Arizona  
Horseshoe Dam area, Maricopa County (3 mm clusters) **14:116**
- California  
Santa Monica Mountains, Los Angeles County **19:331n**
- Wyoming  
Yellowstone National Park (micro) **12:36q**
- 
- GYSINITE-(Nd)**
- 
- Italy**  
Sardinia  
Sa Duchessa **19:307–308q,p**

**GENERAL INDEX**

**HAFNON**

**Mozambique**

Muiane mines, Morrua **8**:(390)

**HADINGERITE**

**United States**

Nevada

White Caps mine, Nye County **16**:86n

**HALITE**

**Australia**

South Australia

Lake Gilles, near Iron Knob (encrustations; effect on gypsum crystallization) **13**:187, **13**:189

**Canada**

Québec

Mt. St-Hilaire (flaky crusts on UK#81) **21**:313  
Poudrette quarry **21**:(486)

Saskatchewan

Lanigan (dark blue, purple) **22**:386n

P.C.S. Rocanville mine: **24**:385n; groups of white cubes to 2 cm **24**:223n

**Chile**

Chuquicamata **9**:324

**France**

Mulhouse, Haut-Rhin (blue fibrous) **16**:500n

**Greece**

Christiana mine, Laurium (crusts) **25**:279

**Poland**

Guewroccav, Seesie (15 cm cubes) **15**:117–118p

Wieliczka **21**:174n

**United States**

Arizona

Camp Verde mine, Yavapai County (masses; post-mining stalactites) **14**:88–90p

New Cornelia mine, Pima County (crusts) **14**:296

California

Bristol Dry Lake, San Bernardino County (hopper crystals to 35 cm) **2**:171

Salton Sea, Imperial County (cubic to 10 cm; bright orange fl.) **13**:42

Searles Lake (crystals to 75 mm, some skeletal) **6**:75d, **6**:76c

Colorado

Italian Mountain area, Gunnison County (in fluid inclusions) **15**:86n

Michigan

Keweenaw Peninsula (prob. post-mining) **23**:M66

**HALLOYSITE**

*In European usage, "halloysite" refers to endellite*  
Tubular microcrystals **1**:106–107q

**Australia**

New South Wales

Broken Hill (id as kaolinite) **7**:31

**United States**

Arizona

Magma mine **14**:(82)

Ray mine **14**:(320)

New Mexico

Rose mine, Grant County **25**:201

**Wales**

Gwynedd

Prenteg **23**:397n

**HALOTRICHITE**

Preserving **3**:252

**Canada**

British Columbia

Spatsum claim, near Cache Creek **15**:92n

Québec

Mt. St-Hilaire (2 mm fibers) **21**:313–314

Yukon

Rapid Creek (efflorescences) **23**:Y37

**Chile**

Chuquicamata (hollow prismatic crystals) **9**:328

**Italy**

Tuscany

Cetine mine (halotrichite-pickeringite) **15**:30–31p

Pereta mine **15**:21n

**United States**

Arizona

Bisbee district (post-mining ram's horns to 45 cm) **12**:306

Grand Reef mine, Graham County (tentative id) **11**:223

Holbrook shaft, Bisbee district **12**:306

Junction shaft, Bisbee district (post-mining ram's horns to 1 m) **12**:306

Lavender pit, Bisbee district **12**:306

Ray mine (60 cm fibers) **14**:320

79 mine (post-mining; fibrous to 30 cm; ram's horns) **3**:252, **3**:262p

California

Geysers, The, Sonoma County **24**:350n

Golden Queen mine, Kern County **8**:432p

Leviathan mine, Alpine County **22**:(36)

Colorado

Indiana and Topeka-Kentucky Giant veins, Ouray County (micro tufts) **25**:373

**HAMBERGITE**

**Italy**

Tuscany

Between San Piero in Campo and San Ilario in Campo, Elba **16**:358

**Nepal**

Hyakule pegmatite: to 6 cm **24**:393n; 2.5 to 5 cm, some gemmy **16**:417n

**Norway**

Langesund area quarries **23**:(436)

**Pakistan**

Stak Nala, Gilgit Division **16**:406c.p

**Russia (formerly USSR)**

Malkhane pegmatite field, Transbaikal (crystals to 3 cm) **24**:389n

**United States**

California

Himalaya dike system, San Diego County: **8**:473n; 2.5 cm crystals **8**:514

Himalaya mine, San Diego County (crystals to 5 cm) **16**:423d, **16**:424

Jensen quarry, Riverside County **15**:281–282p

Little Three mine, San Diego County (5.7 cm crystal) **8**:515

**HAMMARITE**

**United States**

Nevada

Outlaw mine, Nye County ("krupkaite" id as) **22**:178

**HANCOCKITE**

**United States**

New Jersey

Franklin mine (massive; micro crystals) **22**:275p

**HANKSITE**

**United States**

California

Searles Lake: crystals to 30 mm **6**:76c, **6**:77d; micro **8**:431; to 20 cm **22**:381

**HARMOTOME**

**Canada**

Québec

Mt. St-Hilaire (minute crystals) **21**:314

**Germany**

Niedersachsen

St. Andreasberg **1**:(86)

Rheinland-Pfalz

Oberstein/Nahe (1.5 cm crystal) **8**:304p

**Scotland**

Highland

Strontian (2 cm crystals) **21**:492n

**United States**

Colorado, Wyoming, Utah

Green River formation (harmotome-wellsite) **8**:368–371

Connecticut

Thomaston Dam, Litchfield County (cruciform twins) **10**:240–241p,q

Vermont

Putney (north of), Windham County (micro) **22**:384n

**Wales**

Powys

Cwm Orog mine (twinned) **24**:392n

**HARSTIGITE**

**Sweden**

Harstigen mine, Värmland **1**:164n, **22**:(49)

**HARTITE (ORGANIC)**

**Italy**

Tuscany

Castelnuovo and Allori mines, Upper Valdarno (white acicular) **25**:297p, **25**:298h

**HARTTITE**

*See Svanbergite*

**HATCHITE**

**Switzerland**

Lengenbach quarry **8**:279p, **25**:(140)

**HAUCHECORNITE**

**Canada**

Ontario

Vermilion mine, west of Sudbury **9**:(113)

**HAUERITE**

**Poland**

Jeziorska mine, Silesia: **21**:174n; euhedral to 1.5 cm **22**:459

Machow mine, near Tarnobrzeg (massive; octahedral) **23**:32

**HAUSMANNITE**

**South Africa**

Cape Province

Kalahari manganese field: **9**:151; crystals to 2 cm **22**:286

N'Chwaning mine: skeletal octahedral to 15 mm **25**:213p, **25**:218; stepped pyramids to 2 cm **23**:277

Wessels mine **22**:286p

**Sweden**

Bergslagen district (Mn ore) **1**:55ff, **22**:48–49

**United States**

Arizona

White-Tailed Deer mine, Bisbee district (replacing limestone) **12**:306

**HAUYNE**

**Germany**

Rheinland-Pfalz

Laacher See area, Eifel district **8**:324c

**United States**

New York

Edwards mine, St. Lawrence County ("lazu-rite" id as) **3**:273–274

**HAWAII**

Bibliography of locality literature **18**:215

Bibliography of mineralogy literature **10**:17

Puu o Ehu quarry, on Enchanted Lake, Oahu **14**:50s, **15**:95–97



## HAWLEYITE

**Canada**

British Columbia  
Silver Standard mine (earthy) **2:204**

**England**

Derby  
Fall Hill quarry, Ashover (coatings; poss. greenockite) **14:17**  
Mill Close mine (coatings; poss. greenockite) **14:17**

**New Zealand**

Tui mine (thick crusts) **6:29**

**United States**

Arizona  
Bisbee district ("greenockite" probably is hawleyite) **12:306**  
Indiana  
Bethel Church fossil dig, Pike County (powdery) **15:355p**

## HAYNESITE

**United States**

Utah  
Repete mine, San Juan County **22:384n, 24:(48)**

## HEAZLEWOODITE

**Australia**

Tasmania  
Locality not specified **9:(113)**

**Canada**

Québec  
Jeffrey mine: fan-shaped **9:249**; rhombs **10:76**

**Turkey**

Kop Krom mine, west of Erzerum (grains) **9:286**

**United States**

Pennsylvania/Maryland  
Line pit (euhedral grains) **12:155**

## HECTORFLORESITE

**Chile**

Pampa Rica, Antofagasta (micro crystals) **24:49n**

## HEDENBERGITE

**Australia**

New South Wales  
Broken Hill (manganian; "green rhodonite," "manganhedenbergite") **7:28**

**Canada**

Québec  
Mt. St-Hilaire: **2:142, 2:269, 2:271q**; prismatic to 3 mm **21:314**

**Greece**

Seriphos (crystals to 5 cm; coloring quartz green) **22:304, 22:305, 22:306–307p**

**Italy**

Boccheggiano and Niccioleta mines, Tuscany **10:290n**

**Sweden**

Nordmark, Värmland (very large crystals) **22:46, 22:51**

## HEDLEYITE

**Canada**

British Columbia  
Good Hope group (flakes) **2:207**

## HEDYPHANE

Vs. mimetite **4:137**

**Australia**

South Australia  
Beltana mine **22:452–453c,d,q**  
Puttapa Zinc mine (crystals) **15:110p**

**Namibia**

Tsumeb (micro crystals) **8:T26n**

**United States**

New Jersey  
Franklin (calcian mimetite reclassified as) **22:453h**

## "HEIKOLITE"

*Amphibole, poss. = crossite*

**Canada**

Québec  
Mt. St-Hilaire: **2:269**; terminated crystals **2:142**

## HEINRICHITE

**France**

Rivieral mine, Hérault (intergrown with abernathyite) **23:433n**

**Germany**

Baden-Württemberg  
Schmiedestollenhalde, Wittichen district (1 mm crystal) **8:307p**

## HELLANDITE

**Canada**

Québec  
Evans-Lou pegmatite (crystals to 55 cm) **3:70n, 3:72–74p**

**United States**

California  
Jensen quarry, Riverside County (crystals) **15:282d,c**

## HELMUTWINKLERITE

**Namibia**

Tsumeb **13:138p, 13:139p, 13:140c**

## HELIVITE

Helvite group (genthelvite, helvite, danalite) **8:92–93c,q**

**Canada**

Québec  
Mt. St-Hilaire (sharp crystals to 3 mm) **21:314**

**Mexico**

Chihuahua  
El Potosí mine, Santa Eulalia (crystals to 2 mm) **23:435n**

**Norway**

Oslofjord/Langesundsfjord region (1 cm sharp) **22:52n**

**Peru**

Huanzala, Huanuco (yellow to 2 mm) **21:491n**

**Russia (formerly USSR)**

Vilui (Wilui) River district ("achtargdite"; feldspar after) **18:432n**

**United States**

Colorado  
American Tunnel mine, Silverton district **7:302n**

Sunnyside (American Tunnel) mine, San Juan County **10:358n**

## Idaho

Sawtooth batholith (crystals to 2.5 cm, some twins) **24:194p,c**

## Montana

East Moulton mine, Silver Bow County **8:93**

## HEMATITE

"Iron rose" habit defined **12:188**

Toxicity **11:10**

**Algeria**

Djebel Nador (see Nador, Morocco)

**Argentina**

Volcán Payun Matru, Mendoza province (after large skeletal magnetite octahedra) **22:387n**

**Australia**

South Australia  
Beltana mine (massive) **22:453**

**Brazil**

## Bahia

Boquirá mine: **25:215n**; platy aggregates to 10 cm **6:283n**

Brumado mine: plates, pseudo-cubic to 2 cm **23:276**; plates to 6 cm **24:384n**; 13 cm euhedral crystal **15:177**

Ibitiara: golden rutile oriented on **21:96–97p**; id as hematite **21:501**

Pedra Preta pit, Brumado district (crystals to 10 cm; plates; acicular) **9:200p, 9:201**

## Minas Gerais

Belo Horizonte (near): **24:385**; specular, iridescent **24:49n**

Casa de Pedra **2:12n**

Congonhas do Campo **20:160–161n**

Jaguaráçu pegmatite (massive; micro crystals) **25:168–169**

**Canada**

## Nova Scotia

Digby Neck ("martite"; after magnetite) **1:(84)**

## Northwest Territories

Hadley Bay, Victoria Island (scalenohedral) **24:385n**

## Ontario

Diamond Willow mine, Thunder Bay (in amethyst) **13:68–69p**

Eldorado mine, near Madoc (thin micro plates) **13:111n**

Faraday mine, near Bancroft (coating calcite scalenohedrons) **13:82p**

Norland (rosettes) **13:111n**

Wallbridge mine, near Madoc (magnetite after) **16:215**

## Québec

Mt. St-Hilaire (plates, crystals to 3 mm) **21:314**

**Chile**

Chuquicamata (specular; some magnetite after) **9:324**

**England**

## Cornwall

Botallack district (botryoidal; "nail head") **24:280**

## Derby

Derbyshire orefield (massive) **14:16**

**Germany**

## Rheinland-Pfalz

Laacher See area, Eifel district: **10:93p**; some pseudocubic **8:316d,c, 25:(215)**

**Greece**

Plaka mine, Laurium (grains) **7:121n**

Seriphos ("iron rose" habit) **22:304**

**Italy**

## Lombardy

Baveno area **14:164**

## Sicily

Locality not specified (4.5 cm thin plates) **14:55p**

## Tuscany

Upper Valdarno (velvety) **25:298n**

**Malawi**

Mt. Malosa region (micro acicular after pyrite) **25:34**

**Mexico**

## Chihuahua

Los Lamentos **11:285**

Santa Eulalia (roses) **21:257n**

Unspecified geode localities (minute spheres, crystals) **3:206–207p**

**Morocco**

Gobabor Mountains (thin red, in quartz) **24:312p, 24:313n**

## GENERAL INDEX

- Nador: brilliant flattened rhombs **25:215, 25:218**;  
skeletal plates to 7 cm **25:50n**; very thin, flat  
plates, locality corrected from Djebel Nador,  
Algeria **24:235p**
- Namibia**  
Tsumeb: reniform, intergrown with black euhe-  
dral mimetite **13:144p**; some "martite" after  
magnetite **8:T26n, 8:T56p**
- New Zealand**  
Tui mine (fine-grained masses) **6:27**
- Norway**  
Kongsli, Oppland (rutile epitactic on) **24:393n**
- South Africa**  
Cape Province  
Kalahari manganese field **9:150, 22:286**  
N'Chwaning II mine: bright 3 cm crystals,  
some pseudocubic **22:286**; large crystals  
**9:150n**; "pencil-point" habit **23:277**  
Wessels mine: crystals to 6.6 cm **11:121n,**  
**11:124p**; crystals to 2 cm **9:150**; tabular  
crystals to 30 cm; some scalenohedral  
**22:286**  
Transvaal  
Campbell mine, Messina district (tabular to 3  
cm) **22:197**  
Messina district (massive red; specular) **22:197**  
Messina mine (tabular to 3 cm) **22:197**
- Spain**  
Hiendelaencina district, Guadalajara **23:248n**  
Jaén (locality not specified) (5–7 mm tabular  
crystals) **16:306n**
- Swaziland**  
Devils Reef (extension of Barberton field, South  
Africa) (in quartz) **23:218**
- Switzerland**  
Cavradischlucht, St. Gotthard region (crystals  
to 10 cm; rutile on) **9:132**  
Fibbia, Uri (3 mm *eisenrose*) **6:303p**  
Ritter pass, Binntal (*eisenrosen*) **10:122**
- United States**  
Arizona  
Bisbee district **12:306**  
Cole shaft, Bisbee district (specular) **12:305**  
Dome Rock Mountains, La Paz County (tabu-  
lar crystals to 6.5 cm) **11:227–229p**  
Fat Jack mine, Yavapai County (crusts, mas-  
sive; auriferous) **22:25–26**  
Grand Reef mine, Graham County (earthy;  
specular) **11:223**  
Lavender pit, Bisbee district (iridescent;  
needle ore) **12:306**  
Magma mine **14:79**  
Mammoth mine, Pinal County (earthy; specu-  
lar) **11:169**  
New Cornelia mine, Pima County (bright  
crystals; iridescent botryoidal) **14:296**  
Quartzsite (near), La Paz County (*eisenrosen*  
to 15 mm) **11:315–316p**  
Rowley mine, Maricopa County (powdery)  
**5:17**  
79 mine (massive, specular) **3:250**  
Shattuck shaft, Bisbee district: botryoidal;  
tabular to 3 cm **24:429p**; reniform, stalac-  
titic, specular **12:306**  
Southwest mine, Bisbee district (iridescent)  
**12:306**  
Veta Grande claims, La Paz County: **22:217n**;  
brilliant tabular to 2.5 cm **10:35**; 6.4 cm  
crystal **10:189**
- Arkansas  
Magnet Cove, Hot Springs County (iron rose  
habit) **12:187–188**
- California  
Cloverdale (near), Sonoma County **8:433n**  
Talc City Hills, near Darwin, Inyo County  
(specular) **15:15n**
- Colorado  
Black and Blue prospect, Park County (black  
crystals in quartz) **24:382n**  
Crystal Peak area, Park/Teller counties:  
**16:224p**  
Italian Mountain area, Gunnison County  
**15:86n**  
Pikes Peak batholith (micro plates; after sid-  
erite rhombs to 5 cm) **10:376**  
San Juan County **10:358n**  
Sentinal and Specimen rocks, El Paso County  
(after siderite rhombs) **16:223, 16:225p**  
Shavano Peak, Chaffee County (specular)  
**12:367**  
Stove Mountain, El Paso County (flattened  
rhombs) **16:223n**
- Connecticut  
Gillette quarry, Middlesex County (pseudo-  
hexagonal in muscovite) **23:25**
- Georgia  
Graves Mountain (goethite-hematite; mas-  
sive, iridescent) **16:447–448p**
- Hawaii  
Puu o Ehu quarry, Oahu (tentative id; coating  
on zeolites) **15:96–97p**
- Idaho  
Sawtooth batholith (rosettes to 5 cm) **24:194c**
- Massachusetts  
Chester emery mines **9:239**
- Michigan  
Keweenaw Peninsula (numerous localities)  
(micro plates) **23:M66**
- Missouri  
Pea Ridge mine, Washington County (platy  
to 7 cm) **22:383**
- New Hampshire  
Government pit, Carroll County **14:(47)**
- New Jersey  
Buckwheat open pit, Franklin (micro spheres,  
plates) **14:188–189p**  
Chimney Rock quarry, Somerset County:  
"cuprite" id as **9:31**; earthy **9:29**; minute  
rosettes **9:27**  
Paterson area, Passaic County: coloring quartz  
**9:159p, 9:165p**; rosettes **9:173, 9:176p**  
Route 80 roadcut, Passaic County (micro  
rosettes) **1:173**  
Upper New Street quarry, Paterson (prefer-  
ential overgrowths delineating Dauphiné  
twinning in quartz; calcite similarly coated)  
**15:227–229p,c,d**
- New Mexico  
Burro Ridge, Sierra County **16:139, 16:143p**  
Point of Rocks quarry, Colfax County **15:152**
- New York  
Caledonia mine, St. Lawrence County (unal-  
tered crystals) **15:215n**  
Sterling mine, Jefferson County (botryoidal;  
most crystals are magnetite after) **15:204,**  
**15:205–207p**
- Oregon  
Obsidian Cliffs, Lane County (after phlogo-  
pite or biotite) **12:44**  
Summit Rock, Douglas County (oriented on  
hypersthene) **16:137c, 16:140p**
- Pennsylvania  
French Creek mine (micaceous; some mag-  
netite after) **25:115**
- Texas  
Colquitt-Tignor mine, Brewster County (plates)  
**21:230**
- Utah  
Drum Mountains, Juab and Millard counties  
**10:275**  
Keg Mountains, Juab County (plates to 7 cm)  
**10:275**
- Thomas Range and vicinity: after garnet  
**25:59n**; thin plates to 2 cm **10:270–271p**  
Wah Wah Mountains **10:276**
- Washington  
Denny Mountain, King County (specular)  
**8:17**
- Wisconsin  
Rib Mountain, Marathon County (thin tabu-  
lar to 3 cm, some in quartz) **12:95**
- 
- HEMATOLITE**
- 
- Sweden**  
Nordmarks Odalfält mines, Värmland **1:165n**
- 
- HEMATOPHANITE**
- 
- Sweden**  
Jakobsberg, Värmland **1:166h**
- 
- HEMIHEDRITE**
- 
- Iran**  
Seh-Changi deposit (micro crystals) **11:295–**  
**296q,d**
- United States**  
Arizona  
Florence mine, Pinal County **1:80h,q**  
Potter-Cramer and Rat Tail claims, Maricopa  
County **11:265n**  
Rat Pack claim, Maricopa County **1:80h,q**
- 
- HEMIMORPHITE**
- 
- Australia**  
New South Wales  
Broken Hill (crystals) **7:31**  
Northern Territory  
Moline **12:110n**  
South Australia  
Beltana mine (some tabular, wedge-shaped)  
**22:453c,d**  
Billy Springs mine **12:107n**  
Puttapa Zinc mine **15:110p**  
Reaphook Hill, Flinders Range (after smith-  
sonite) **12:105n**  
Western Australia  
Ashburton Downs (micro crystals) **24:213**  
Reaphook Hill, Flinders Range (massive)  
**9:23**
- Brazil**  
Minas Gerais  
Vazante area (crystals) **6:284, 6:286p**  
São Paulo  
Furnas mine (crystals to 1 cm) **6:283, 6:284p**
- Canada**  
British Columbia  
Oxide claim, southeast of Ymer **2:208**  
Québec  
Mt. St-Hilaire (minute spheres, crusts) **21:314**
- China**  
Yunan (locality not specified) (deep blue botry-  
oidal) **24:234n**
- England**  
Cornwall  
Greystones quarry (crystals) **23:434n**  
Derby  
Rutland Cavern, Matlock Bath area **14:23**
- Germany**  
Rheinland-Pfalz  
Friedrichsseggen mine (botryoidal aggregates)  
**15:342n**
- Greece**  
Plaka mine, Laurium (micro druses) **7:122**
- Greenland**  
Narsárssuk ("calamine"; fibrous) **5:120**
- Italy**  
Sardinia  
Domusnovas (yellow crystals) **15:372**  
Iglesias (bright blue botryoidal) **15:372p**  
Santa Lucia fluorite mine **15:372n**  
Seddas Moddizia mine **15:372n**

**Mexico**

- Chihuahua
  - El Potosí mine, Santa Eulalia district (to 7 cm) **22:390n**
  - San Antonio mine, Santa Eulalia district: crystals to 1 in **14:385**; tabular to 5 cm **2:230p**
- Durango
  - Magistral (locality questioned) (blue botryoidal) **5:76**
  - Mapimi **2:230p**
  - Santo Niño mine (blue botryoidal) **21:257n**

**Namibia**

- Tsumeb **8:T26n, 8:T64p**

**Scotland**

- Dumfries and Galloway
  - New Glencrieff mine, Wanlockhead (stalactitic) **12:249p**

**Slovenia (formerly Yugoslavia)**

- Mežica mine (fibrous) **22:104n**

**United States**

- Arizona
  - Cole shaft, Bisbee district (crystals to 10 cm) **12:306p, 12:307**
  - Glove mine (bluish botryoidal) **14:305**
  - Magma mine **14:(82)**
  - Mammoth mine, Pinal County (crystals) **11:169**
  - McCrackin mine, Mohave County **15:112p**
  - Red Cloud mine, La Paz County (micro bladed) **11:149p**
  - 79 mine: blue botryoidal **23:275p, 23:276**; laths to 12 mm, botryoidal, some chrysocolla after **3:255, 3:270p**
  - Silver Bill mine, Cochise County: micro **11:261, 11:264**; some hollow hemispheres **14:130**
  - Southwest mine, Bisbee district: small crystals **12:307**; 2 mm crystals **24:429n**
  - Uncle Sam shaft, Bisbee district (2 mm crystals) **24:429n**
- Arkansas
  - Rush Creek district, Marion County (thin tabular) **24:298**
- California
  - Blue Bell mine, San Bernardino County (crystals) **8:495**
  - Darwin district, Inyo County **8:(432)**
  - Defiance mine, Inyo County **15:15n**
  - Lead Mountain, San Bernardino County **8:(432)**
  - Zinc Hill mine, Inyo County (crystalline layers) **6:112**
- Colorado
  - Adams shaft, Leadville district (drusy quartz on) **16:193n**
  - Henriett mine, Leadville district **16:193n**
  - Hilltop mine, Park County **16:191n**
  - Italian Mountain area, Gunnison County **15:86n**
  - Little Jonny/Ibex mine, Leadville district (with aurichalcite) **16:(190), 16:193**
  - Maid of Erin mine, Leadville district **16:193**
  - Moyer mine, Leadville district **16:(182)**
  - Tucson mine, Leadville district (botryoidal) **16:(181)**
- Idaho
  - Bunker Hill mine (spheres) **12:344–345p**
- Massachusetts
  - Loudville mine, Hampshire County: bladed **6:297**; micro crystals **13:46**
- Montana
  - Black Pine mine, Granite County (bladed to 1 cm) **23:480p, 23:482**
- Nevada
  - Richmond mine, Eureka County (velvety acicular) **23:425n**

**New Jersey**

- Buckwheat open pit, Franklin (micro) **14:188–189p**
- Sterling Hill: **1:(86)**; “maggot ore,” Mud Zone finds **19:274**; micro blades **25:98p, 25:100**

**New Mexico**

- Stephenson-Bennett mine, Dona Ana County (bladed to 3 cm) **4:33p**

**Tennessee**

- Jefferson City (near), Jefferson County **3:90–91**

- Sweetwater, Monroe County **14:367p**

**Utah**

- Dry Canyon, Tooele County **21:(484)**
- Hidden Treasure mine, Tooele County **24:48n**

**Wales**

- Dyfed
  - Bwlch-Glas mine **13:153**

**Zambia**

- Broken Hill mine (crystals) **11:348**

**HENRITERMIERITE**

**Morocco**

- Tachgagalt deposit, Anti-Atlas Mountains (newly described; minute grains) **1:136h,q**

**South Africa**

- Cape Province
  - N’Chwaning II mine (crystals to 3 mm) **22:286–287p**
  - Wessels mine (micro crystals) **22:286–287p**

**HENRYITE**

**United States**

- Arizona
  - Campbell shaft, Bisbee (micro grains) **24:429**

**HERCYNITE**

**Germany**

- Rheinland-Pfalz
  - Laacher See area, Eifel district **8:316**

**HERDERITE**

*See also Hydroxylherderite*

Herderite/hydroxylherderite series: nomenclature, morphology, etc. **10:5–11h,q,c,d**

In pegmatite environments **4:124**

Most specimens actually hydroxyl-herderite **10:5**  
Numerous world localities **4:120, 4:124**

**Brazil**

- Minas Gerais
  - Énio pegmatite, near Galiléia **12:(71)**
  - Sapucaia area **2:(12)**
  - Virgem da Lapa mine: 8 cm gemmy blue **7:130–131p**; 18 cm **8:59n, 8:60p**; 5 cm doubly terminated **7:309p**

**England**

- Cornwall
  - Botallack district **24:280n**

**United States**

- California
  - Blue Chihuahua mine, San Diego County (crystals to 5 cm) **8:507, 8:508p**
  - Himalaya dike system, San Diego County **8:473n**
- Connecticut
  - Oxford, New Haven County (prismatic) **3:36–37p**
- Five localities **3:37n**

**Maine**

- Bell Pit, Oxford County (nodules) **1:114**
- Fisher’s Lodge, Sagadahoc County (“world’s largest and finest”) **1:139n**

**HERSCHELITE**

**Italy**

- Sicily
  - Aci Castello **8:(390), 9:(113)**

**Northern Ireland**

- County Antrim
  - Island Magee (poss. chabazite) **13:44**

**United States**

- Arizona
  - Horseshoe Dam area, Maricopa County: **11:264**; micro “cymbal”-shaped **12:44**; 1 mm plates **14:116p**

**HERZENBERGITE**

**Bolivia**

- Candelaria mine, Poopó district (plumboan, “montesite”) **6:133**
- María Teresa mine, Challapata district (masses) **6:132**

**HESSITE**

**Canada**

- British Columbia
  - Glacier Gulch South Side Group, near Smithers **2:204, 15:(90)**
  - Grotto group, southwest of Hazelton (massive) **2:206–207**
  - Mt. Washington mine, Vancouver Island **15:(90)**

**Québec**

- Mt. St-Hilaire (minute crystal) **23:429n**

**Romania**

- Boteş mine, western Transylvania gold district: **13:(374)**; auriferous **13:398q**

**United States**

- Arizona
  - Campbell shaft, Bisbee **24:429n**
  - West Side mine, Tombstone district (unconfirmed) **11:253**
- California
  - Jamestown mine, Tuolumne County (crystals to 3 mm) **25:13**
- Colorado
  - Nancy mine, Boulder County **13:398n**
  - Rex Hill area, Boulder County **13:398n**
  - San Juan Mountains **10:358n**
- Oregon
  - Last Chance mine, Baker County **13:398n**

**“HESSONITE”**

*See Grossular*

**HETAEROLITE**

*See Grossular*

**HETAEROLITE**

**Australia**

- South Australia
  - Beltana mine (bipyramidal to 3 mm) **22:453**

**United States**

- Arizona
  - Campbell shaft, Bisbee district (botryoidal) **12:307**
  - Cole shaft, Bisbee district (drusy) **12:307**
  - Junction shaft, Bisbee district (reniform) **12:307**
  - 79 mine (coatings) **3:251**
  - White-Tailed Deer shaft, Bisbee (6 mm crystals) **24:429**
- California
  - Mohawk mine, San Bernardino County **8:432n**

**“HETEROBROCHANTITE”**

*See Antlerite*

**HETEROGENITE**

*See Antlerite*

**HETEROGENITE**

**Australia**

- Queensland
  - Mt. Cobalt **23:(432)**

**Namibia**

- Tsumeb: **8:(390)**; coatings, masses **8:T26n, 8:T59p**

**United States**

- Nevada
  - Key West mine, Clark County **22:(383)**

## GENERAL INDEX

### HETEROSITE

- In pegmatite environments **4:112**  
 Vs. purpurite **6:201**  
**Brazil**  
 Minas Gerais  
 Énio pegmatite, near Galiléia (masses) **12:70**  
 Sapucaia area **2:(12)**  
 Telfirio mine (manganiferous) **14:234**  
 Paraíba  
 Alto Benedito pegmatite (subhedral to 10 cm) **22:185n**  
**United States**  
 Alabama  
 Williams pegmatites, Coosa County (massive) **6:69–72**  
 Maine  
 Newry area (vs. purpurite) **6:201**  
 New Hampshire  
 Palermo mine **5:278n**

### HEULANDITE

- Australia**  
 New South Wales  
 Garrawilla **19:391p, 19:394c**  
 Kembla Grange **6:251n**  
 Prospect quarry (micro) **25:190p,c**  
 Unanderra **19:392–394d,c,q**  
 Victoria  
 Phillip Island **19:455, 19:460q**  
**Brazil**  
 Santa Catarina  
 Lages (south of) **2:13n**  
**Denmark**  
 Færoe Islands (12 localities) **12:17d**  
**England**  
 Cornwall  
 Wheal Hazzard, near St. Just **24:280**  
**Iceland**  
 Seven localities (crystals to 7 cm) **12:17p,c,d**  
**India**  
 Panwell (Panvel?), Maharashtra **11:115**  
 Poona area quarries **7:258p, 7:260**  
 Sayad Pimpri quarry, Nasik (10 cm crystal) **21:489n**  
**Ireland**  
 Locality not specified (micro) **10:174**  
**Italy**  
 Lombardy  
 Baveno area **14:164**  
 Tuscany  
 San Piero in Campo area, Elba **16:358d**  
**Russia (formerly USSR)**  
 Krasnoyarsky Kray (red, to 7 cm) **23:433n**  
**South Africa**  
 Transvaal  
 Palabora mine (to 1 cm) **22:259p**  
**United States**  
 Arizona  
 Malpais Hill, Pinal County **14:111–112p**  
 Mammoth mine, Pinal County: **11:264n**;  
 micro twinned **11:160d**  
 New Cornelia mine, Pima County (small clear euhedral) **14:296**  
 New Water Mountains, Yuma County **14:(119)**  
 Winkelman (south of), Pinal County **14:109n**  
 California  
 Himalaya dike system, San Diego County **8:472**  
 Colorado  
 Italian Mountain area, Gunnison County **15:86n**  
 Wolf Creek Pass, Mineral County (micro) **7:272**  
 Connecticut  
 Thomaston Dam, Litchfield County **10:(241)**  
 Hawaii  
 Puu o Ehu quarry, Oahu **15:96p–97**

- Michigan  
 Keweenaw County **23:M66**  
 New Jersey  
 Chimney Rock quarry, Somerset County (micro) **9:29**  
 Paterson area, Passaic County **9:171, 9:174p, 9:178p**  
 Route 80 roadcut, Passaic County (crystals to 7.5 cm) **1:174**  
 Route 78 and Shunpike Rd., Union County (micro) **4:232**  
 Pennsylvania  
 French Creek mine **25:(115)**  
 Washington  
 Skookumchuck Dam, Thurston County (crystals to 2.5 cm) **3:31p**  
 Wyoming  
 Yellowstone National Park (micro) **12:30–32q**

### HEXAHYDRITE

- Canada**  
 British Columbia  
 Spatum claim, near Cache Creek **15:92n**  
 Yukon  
 Rapid Creek (2 mm platy) **23:Y38**  
**Greenland**  
 Sarfartôq complex (powdery) **24:G49n**  
**United States**  
 Arizona  
 Campbell shaft, Bisbee district **12:307**

### HEXAHYDROBORITE

- Russia (formerly USSR)**  
 Solongo deposit, Ural Mountains (announced) **9:115h,q**

### HEYITE

- United States**  
 Nevada  
 Betty Jo claim, White Pine County: **16:47h**;  
 newly described, crude minute crystals **5:75h,c,q**

### HIBSCHITE

- See also “Hydrogrossular”  
**Canada**  
 Québec  
 Mt. St-Hilaire: **2:269, 2:271q**; micro octahedral **2:142**

### HIDALGOITE

- Australia**  
 Western Australia  
 Ashburton Downs **24:213**  
**Namibia**  
 Tsumeb (masses) **8:T26n**  
**United States**  
 Utah  
 Gold Hill mine: crusts **24:17**; micro botryoidal **2:212–213q**

### HILAIRITE

- Canada**  
 Québec  
 Mt. St-Hilaire: **9:(114), 10:104, 13:246n**;  
 crystals to 4 mm **21:314d,c, 21:316p**  
**England**  
 Yorkshire  
 Boulby mine: **25:44**; 2 mm crystals **24:392n**  
**United States**  
 Texas  
 Locality not specified **2:260d**

### HILGARDITE

- England**  
 Yorkshire  
 Boulby mine: **25:44**; 2 mm crystals **24:392n**  
**United States**  
 Texas  
 Locality not specified **2:260d**

### HILLEBRANDITE

- Saudi Arabia**  
 Nugrah **8:(391), 9:(113)**

### HINGGANITE-(Ce), -(Y), -(Yb)

- Malawi**  
 Mt. Malosa region (hingganite-(Y); micro crystals, fans) **25:34c**  
**Norway**  
 Langesund area quarries (hingganite-(Y)) **23:(436)**

### HINSDALITE

- Australia**  
 Tasmania  
 Sylvester mine: **8:(517)**; after pyromorphite **8:391–392p**  
 Western Australia  
 Ashburton Downs (corkite-hinsdalite; minute crystalline) **24:211**  
**Germany**  
 Rheinland-Pfalz  
 Ems district **15:335**  
**United States**  
 Arizona  
 Mineral Park mine, Mohave County (minute crystals) **11:243p**  
 Colorado  
 Golden Fleece mine, Hinsdale County (12 mm crystals) **7:299**

### HISINGERITE

- Canada**  
 Québec  
 Mt. St-Hilaire (some after aegirine) **21:314**  
**United States**  
 Arizona  
 Bisbee district **12:(307)**  
 Mammoth mine, Pinal County (earthy) **11:169**  
 Colorado  
 Italian Mountain area, Gunnison County **15:86n**

### HISTORY OF MINERALOGY

- At U.S. colleges, early 19th century **19:150**  
 Australia **19:357–364**  
 Berzelius, Jöns Jacob **19:293–295**  
 Historical Notes on Mineralogy (Lawrence H. Conklin) **18:369–372, 18:423–427**  
 Historical Record, The (Ron Bentley) **14:133–135**  
*Science of Minerals in the Age of Jefferson, The* **10:314b**

### HJELMITE

- Sweden**  
 Stripasen **8:517h**

### HOCARTITE

- United States**  
 Arizona  
 Campbell shaft, Bisbee **24:429n**

### HOCHELAGAITE

- Canada**  
 Québec  
 Mt. St-Hilaire (UK#50; silky fibrous) **21:314–315p**

- Norway**  
 Langesund area quarries **23:(436)**

### “HOCHSCHILDITE”

- Alteration product of teallite*  
**Bolivia**  
 Monserrat district, Oruro Dept. (masses) **6:136n**

### HODGKINSONITE

- United States**  
 New Jersey  
 Franklin mine (micro crystals) **13:229–232p,q,c**  
 Sterling Hill mine (coatings, micro druzes) **13:229–232p**

GENERAL INDEX

HODRUSHITE

**Czech Republic (formerly Czechoslovakia)**  
Banská Hodrusa (newly described; 5 mm crystals) **2:29h,q**  
**United States**  
Arizona  
Campbell shaft, Bisbee (micro laths) **24:432**

HOERNESITE

*See Hörnesite*

HOHMANNITE

**Chile**  
Chuquicamata **9:329**

HOLDAWAYITE

**Namibia**  
Kombat mine **22:422h**

HOLDENITE

**United States**  
New Jersey  
Franklin **12:373–374h, 12:375q**  
Sterling Hill mine **12:374–375p,q, 13:(37)**

HOLLANDITE

**Australia**  
South Australia  
Beltana mine (prismatic to 4 mm) **22:453**  
**Greece**  
Laurium-Kamaréza road (prismatic) **25:279**  
**South Africa**  
Cape Province  
Kalahari manganese field (minute grain) **9:151n**  
**United States**  
Arizona  
Mammoth mine, Pinal County (films, crusts; “psilomelane” id as) **11:169**  
Mistake mine, Yavapai County (id as ramsdellite) **14:333p,q**  
Yavapai County (locality not specified) (6 mm psedocubic) **12:183n**

HOLMQUISTITE

**Australia**  
Western Australia  
Greenbushes tinfield (clusters to 15 cm) **9:83p**  
**United States**  
New Mexico  
Harding mine (needles) **8:123**

HOLTITE

**Australia**  
Western Australia  
Greenbushes tinfield (fibrous) **9:83p**  
**Russia (formerly USSR)**  
Mt. Ploskaja, Kola Peninsula **24:389n**

HONDURAS

El Plomo mine, Ojojoma district, Tegucigalpa **10:247s**

HONESSITE

**United States**  
Kentucky  
Hall’s Gap, Lincoln County (confusion about species status) **2:17h**

HOPEITE

**Germany**  
Rheinland-Pfalz  
Ems district **15:335**  
**Zambia**  
Broken Hill: associated with fossil bones **11:344–346p,d,c; crystals to 2 cm 11:319**  
**Zimbabwe (formerly Southern Rhodesia)**  
Locality not specified (crystals to 2 cm) **4:280**

HORNBLLENDE

*See also Magnesiohornblende*

**Brazil**

São Paulo  
Jacupiranga mine **15:268**

**Canada**

Ontario  
Lake Clear-Kuehl Lake area, Renfrew County **13:213**  
Silver Crater mine (Basin property), Hastings County: crystals over 3 m **10:155n; crystals to 3.3 m in situ 13:201**  
Québec  
Mt. St-Hilaire (prismatic to several mm) **21:315**

**Germany**

Rheinland-Pfalz  
Laacher See area, Eifel district **8:319d, 8:320c**

**Norway**

Skarregerbukta, Finnmark **23:435n**

**United States**

Arizona  
Bisbee district **12:307**  
Galena shaft, Bisbee district (hornblende group) **12:307**  
New Cornelia mine, Pima County **14:296n**  
California  
Jensen quarry, Riverside County **15:288n**  
Colorado  
Italian Mountain area, Gunnison County **15:86n**  
Massachusetts  
Chester emery mines (massive) **9:240**  
Oregon  
Summit Rock, Douglas County **16:139c, 16:143p**  
Pennsylvania  
French Creek mine **25:115n**

HÖRNESITE

**Czech Republic (formerly Czechoslovakia)**  
Třebosko deposit (T-1 vein) (on symplectite) **22:212**

**Macedonia (formerly Yugoslavia)**

Allchar **24:441**

**Romania**

Cavnik **22:437p**

“HORTONOLITE”

*See Fayalite*

HOWIEITE

**United States**

California  
Laytonville district, Mendocino County **8:433**

HOWLITE

**Canada**

Nova Scotia  
Bras d’Or Lake, Cape Breton Island (cm-sized crystals) **24:388**

HUANGHOITE

**Greenland**

Qaqarsuk complex (crystalline aggregates) **24:G48n**

“HUANTAHAYITE”

*A poorly defined sodium/silver chloride*

**Chile**

Iquique area, Tarapacá (crystals and cleavages) **15:68**

HÜBNERITE

Vs. ferberite, wolframite **8:393**

**Bolivia**

Quimsacoya mine, Huanuni district **6:137**  
Santa Isabelle mine, Conde-Auque district **6:137**

**China**

Chenzhou, Hunan (crystals to 10 cm) **21:488n**

**Peru**

Casapalca, Junin **9:36n**  
Huallapon mine, Ancash (crystals to 15 cm) **9:36n**

**United States**

Arizona  
Cole and White Tailed Deer shafts, Bisbee (grains) **24:432**

California

Colorado Hill, Alpine County (sprays to 7.5 cm) **22:37, 22:38p**  
Zaca mine, Alpine County (bladed to 2 cm) **22:37, 22:38p**

Colorado

Adams mine, San Juan County (crystals to 15 cm) **7:299p, 7:302**

American Tunnel mine, San Juan County **7:302n**

Andes mine, Park County (gemmy to 7.5 cm) **7:291n**

Anglo Saxon and North Star mines, San Juan County **7:302n**

Home Sweet Home mine (see Sweet Home mine)

Red Bonita mine, San Juan County: crystals to 15 cm **7:299p, 7:302; 10 cm euhedral 2:108**

Ruby mine, San Juan County (gemmy to 12 mm) **7:301**

San Juan Mountains **10:358n**

Sweet Home mine, Park County (gemmy) **10:337**

Yukon mine, Silverton district **7:302n, 10:331n**

Montana

Black Pine mine, Granite County **23:480p, 23:482**

New Jersey

Franklin/Sterling Hill **10:164–165c,q**

HUNGARY

Báňa (formerly Rezbánya) **13:398s**

Csordakút **19:30s**

Károly mine, Gyongyosoroszi **18:408, 18:409p**

Verespatak (see Romania)

HUNTITE

**Australia**

Western Australia  
132 North deposit, Widgiemooltha district (massive) **25:291n**

**Brazil**

Bahia

Boqueira mine, near Oliveira do Brejinho (massive) **6:284, 6:288pp**

**United States**

Nevada

Ala-Mar deposit, Nye County **16:47–48h**

HUREAULITE

Four world localities **10:148h**

In pegmatite environments **4:122**

Numerous world localities **4:119–120, 4:122**

**Brazil**

Minas Gerais

Lavra da Criminoso, near São Jose da Safira (prismatic to 7 mm) **10:147–151c,d,p,q**

Paraíba

Alto Benedito pegmatite (crystalline masses) **22:185n**

**United States**

Alabama

Williams pegmatites, Coosa County (some euhedral) **6:69–72**

Maine

Bennett quarry, Oxford County **25:(183)**

- South Dakota  
Tip Top mine: **17:240q**; crystals to 3.2 cm **17:242p,c**
- HURLBUTITE**
- Finland**  
Viitaniemi, near Eräjärvi: **9:(113)**; fine-grained **4:123**
- United States**  
Montana  
Butte (east of) (2.5 cm crystals) **16:497**  
New Hampshire  
Smith mine, Sullivan County: **16:(497)**; prismatic to 2.5 cm **4:123**  
South Dakota  
Tip Top mine (micro spheres) **17:242p**
- HUTCHINSONITE**
- Peru**  
La Libertad mine, Quiruvilca (1 cm laths) **16:459–460p,q**  
Quiruvilca (crystals to 16 mm) **8:394p**
- Switzerland**  
Lengenbach quarry **8:276q, 8:279q**
- HYALOPHANE**
- Bosnia-Herzegovina (formerly Yugoslavia)**  
Sarajevo (twinned, to 10 cm) **22:393n**  
Zagradski Creek, near Busovaka **16:306n**
- New Zealand**  
Culverden, Pahau River (transparent 2 mm crystals) **14:49p**
- Russia (formerly USSR)**  
Slyudyanka, Lake Baikal district (large crystals) **1:59–60**
- “**HYDROANDRADITE**”
- South Africa**  
Cape Province  
Wessels mine (micro grains) **22:287**
- HYDROBASALUMINITE**
- United States**  
Arizona  
Lavender pit (Holbrook extension), Bisbee district **12:307**  
Southwest mine, Bisbee district (blades to 3 cm) **12:307**
- “**HYDROBIOTITE**”
- Interstratified biotite and vermiculite*
- South Africa**  
Transvaal  
Messina district **22:193**
- HYDROBORACITE**
- History **9:379h**  
Seven world localities **4:21–22h**
- Turkey**  
Bigadiç, Anatolia **10:124n**
- United States**  
California  
Boron, Kern County **8:432n**  
Lila C. mine, Ryan, Death Valley **9:379–381h,d,p**  
Terry Borate mine, Inyo County (sprays to 3 cm; some radial, poss. after colemanite) **8:503–504p**  
Thompson mine, Inyo County (crystals to 2.5 cm) **4:21–23p**
- HYDROCALUMITE**
- Germany**  
Rheinland-Pfalz  
Laacher See area, Eifel district **8:316d, 8:317**
- HYDROCERUSSITE**
- Canada**  
Québec  
Mt. St-Hilaire (crusts, minute prisms) **21:315**
- England**  
Somerset  
Merehead quarry, near Cranmore: crystals to 6.5 cm **8:300p**; some cerussite after **8:301–302**
- Greece**  
Kamaréza mine, Laurium (minute tabular in slag) **7:124**
- Namibia**  
Tsumeb (some after euhedral cerussite) **13:140–141p**
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**
- United States**  
Arizona  
Lavender pit (near), Bisbee (coating) **24:432**  
Mammoth mine, Pinal County (crystals to 15 mm) **11:173d**  
Idaho  
Bunker Hill mine (cerussite replacing 2 cm crystals) **12:345p**
- HYDRODRESSERITE**
- Canada**  
Québec  
Francon quarry **9:105p**
- HYDROGLAUBERITE**
- Chile**  
Salar de Pintados, Tarapacá **1:14n**
- “**HYDROGROSSULAR**”
- Hibschite-katoite series*
- Canada**  
Québec  
Mt. St-Hilaire (euhedral to 6 mm) **21:315**
- South Africa**  
Cape Province  
Wessels mine (micro grains) **22:287**
- HYDROHETAEROLITE**
- United States**  
Arizona  
Campbell shaft, Bisbee district **12:307**  
Colorado  
Wolfstone mine, Leadville district: **16:183h**; botryoidal **7:288**  
Utah  
Gold Hill mine **24:17**
- HYDROHONESSITE**
- Australia**  
Western Australia  
132 North deposit, Widgiemooltha district (powdery) **25:287**
- HYDROMAGNESITE**
- Brazil**  
Bahia  
São Felix mine (needles to 3 cm) **8:383, 8:384–385p**
- Canada**  
Yukon  
Rapid Creek (silky masses) **23:Y38**
- Iran**  
Dovez mine, Minab district (bladed to 3 cm) **4:18h**  
Soghan mine, Esfandaque district (bladed to 10 cm) **4:18–20p,d,c,q**
- Turkey**  
Kop Krom mine, west of Erzerum (crusts; some after brucite) **9:284–285, 9:287p**
- United States**  
California  
Jensen quarry, Riverside County (crystals) **15:288n**  
New Idria mine, San Benito County (minute balls) **8:459–460p,q**  
Nevada  
Gabbs (near), Nye County **12:394**  
Pennsylvania  
Cedar Hill quarry, Lancaster County (“lancasterite” crystals) **2:40**  
Wood’s mine, Lancaster County (“lancasterite” crystals) **2:39–40**  
Pennsylvania/Maryland  
Line pit, State Line district (2 mm acicular) **12:154**
- “**HYDROMICA**” GROUP
- See also “Hydrobiotite”; “Illite”*
- South Africa**  
Cape Province  
Hotazel and Black Rock mines **9:151**
- “**HYDROMUSCOVITE**”
- See “Illite”*
- “**HYDRONEPHELITE**”
- Mixture*
- Canada**  
Ontario  
Davis Hill (masses) **21:244**
- “**HYDROPHILITE**”
- Poss. = antarcticite or sinjarite*  
Toxicity **11:6**
- HYDROTALCITE**
- France**  
Val Croze, Gard (cuprian aluminian) **23:434n**
- United States**  
New Jersey  
Franklin mine **10:161**
- HYDROTUNGSTITE**
- Bolivia**  
Calacalani, Oruro **12:85h, 12:86p**
- HYDROXYAPOPHYLLITE**
- Nomenclature revisions in the apophyllite group **9:95–98**
- Canada**  
Québec  
Mt. St-Hilaire (tabular to 6 cm) **21:315**
- India**  
Kandivali, near Bombay **9:96p, 9:98**
- Mexico**  
Guanajuato (locality not specified) (crystals to 3 cm) **9:95, 9:98**
- South Africa**  
Cape Province  
N’Chwaning I & II mines (to 8 cm) **22:287**  
Wessels mine: manganoan calcite after 12 cm crystals **22:287**; tabular to 6 cm **24:368**  
Kimberley (crystals to 6 cm) **9:95–96p**
- United States**  
New Jersey  
Bergen Hill **9:98n**  
Prospect Park **9:98n, 9:174n**  
North Carolina  
Ore Knob mine, Ashe County (druses) **9:95**
- HYDROXYLAPATITE**
- Apatite group nomenclature **8:78–82**  
In pegmatite environments (geochemistry, etc.) **4:108**
- Australia**  
Western Australia  
Milgun Station **12:(110)**

- Greenland**  
Gardiner complex (some sprays in “melanite” andradite) **16:488–489p**
- Scotland**  
Strathclyde  
Leadhills (“lead hydroxylapatite”) **12:241p, 12:247d**  
Susanna mine, Leadhills (“lead hydroxylapatite”) **12:247d**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district (“lead hydroxylapatite”) **12:239h**
- Turkey**  
Kop Krom mine, west of Erzerum (thin prismatic to 1 cm) **9:286**
- United States**  
Colorado  
Eagle (near), Eagle County (2.5 cm prisms) **14:173ff**  
South Dakota  
Tip Top mine (micro crystals) **17:242p**
- HYDROXYLBASTNÄSITE**-(Ce), -(La), -(Nd)
- Canada**  
Ontario  
Desmont mine, near Wilberforce (massive, granular) **13:225**
- HYDROXYLHERDERITE**
- Herderite/hydroxylherderite series: nomenclature, morphology, etc. **10:5–11h,q,c,d**  
In pegmatite environments **4:124**  
Most “herderite” specimens actually hydroxylherderite **10:5**  
Numerous world localities **4:120, 4:124**
- Brazil**  
Minas Gerais  
Golconda mine: large fourling twins **10:9–10d,c,p**; locality corrected to Marilac, north of Governador Valadares **10:251**  
Jove Lauriano mine (micro crystals) **14:235**  
Virgem da Lapa pegmatites: **13:26p, 13:27**; large euhedral **10:7d, 10:8–9p,c,q**  
Xanda mine, Virgem da Lapa (8 cm crystal) **13:20p, 13:26p, 13:27**
- Paraíba  
Alto Benedito pegmatite (crystals to 9 cm) **22:184p, 22:185**  
Frei Martinho, north of Picuí (twinned, to 6 cm) **22:387n**
- Pakistan**  
Dusso area, Gilgit Division **16:405–406c,p,q**
- United States**  
California  
MGM quarry, San Diego County (7 cm crystal) **21:481n**  
Maine  
BB #7 quarry, Oxford County (botryoidal; poss. beryllonite) **16:(375)**  
Bennett quarry (crystals to 3 cm) **25:180p, 25:182**  
Dunton mine **16:(382)**  
Havey quarry, Androscoggin County **16:(375)**  
Keith quarry, Androscoggin County **16:375**  
Mt. Mica **16:372n**  
Newry area (spheres to 5 mm) **6:197p, 6:199–200**  
Pulsifer quarry, Androscoggin County **16:375**  
Ski Pike quarry, Oxford County **23:(424)**  
South Dakota  
Tip Top mine (micro spheres) **17:242**
- HYDROZINCITE**
- Australia**  
New South Wales  
Broken Hill (some after smithsonite) **7:30**  
Northern Territory  
Moline (acicular) **12:110**  
South Australia  
Billy Springs mine **12:107n**  
Western Australia  
Ashburton Downs (granular, chalky) **24:213**
- Brazil**  
Three localities (massive, fl. UV) **6:284, 6:289p**
- Canada**  
British Columbia  
Betty group, Betty Glacier, north of Divide Lake **15:(91)**  
Willett mine, near Lardeau (fl. pale blue) **15:92p**  
Québec  
Mt. St-Hilaire (powdery, porcellaneous) **21:315**
- England**  
Derby  
Golconda mine, Hopton **14:21n**  
Hazlebadge **14:21n**  
Mill Close mine, Wensley **14:21n**
- Greece**  
Kamaréza mine, Laurium (coatings) **7:124n**
- Mexico**  
Chihuahua  
Los Lamentos **11:285**
- Namibia**  
Tsumeb **8:T26n**
- Scotland**  
Strathclyde/Dumfries and Galloway  
Leadhills-Wanlockhead district **12:(250)**
- Slovenia (formerly Yugoslavia)**  
Mežica mine (sheets, stalactites; fl. in UV) **22:104**
- United States**  
Arkansas  
Rush Creek district, Marion County (chalky) **24:298**  
Arizona  
Campbell shaft, Bisbee district **12:307**  
Magma mine **14:(82)**  
California  
Custer mine, Inyo County **15:15n**  
Zinc Hill mine, Inyo County: **15:15n**; coatings **6:110p, 6:111**  
New Jersey  
Sterling mine (spheres to 1.5 mm, fl. UV) **25:100**
- Zambia**  
Broken Hill **12:(394)**
- “HYPERSTHENE”
- Intermediate member of enstatite-ferrosilite series*
- Canada**  
Québec  
Mt. St-Hilaire (2 mm prismatic) **21:315**
- Germany**  
Rheinland-Pfalz  
Laacher See area, Eifel district **8:324c**
- United States**  
Oregon  
Summit Rock, Douglas County: acmite after **16:143n**; brown, brick red **12:44**; some with oriented hematite **16:137c, 16:140p**

## GENERAL INDEX

### IANTHINITE

#### United States

Colorado  
Marshall Pass **9**:(113)

### ICE

#### Canada

Northwest Territories  
Nanisivik mine (various habits, some pre-mining) **21**:519p, **21**:522, **21**:524p

#### Yukon

Lucky Queen mine, near Kino Hill (silver crystallized in) **22**:386n

#### United States

##### Colorado

Italian Mountain area, Gunnison County **15**:86n

### ICELAND

Berufjörður **12**:10m

Breidhdalsheiði, roadcut east of Heidharvatn **12**:9, **12**:11m

Breidhdalur **12**:9–10m

Brynjúdalsvogur, Hvalfjörður **12**:21

Djúpidalur, near Djúpiþjörður **12**:9

Djúpiþjörður **12**:9, **12**:10m

Dyrafjörður **12**:9, **12**:10m

Eyafjörður **12**:9, **12**:10m

Hafrafell, near Skaftafell **12**:11m

Helgustadhanáma mine, Reyðarfjörður **12**:9h, **12**:11m

Hofsá, near Akureyri, Eyafjörður **12**:21

Hvalfjörður **12**:9, **12**:10m, **17**:340s, **18**:437–438s

Hvammur **12**:9, **12**:10m, **20**:396s

Hvítarsíða **12**:9, **12**:10m

Kotá **12**:9, **12**:10m

Linguistic notes on locality names **12**:7

Mjóadals Canyon, north of Hvammur **12**:9

Nordhurardalur **12**:9, **12**:10m

Nordurá river, east of Hvammur **12**:9

Öndurfjörður **12**:9, **12**:10m

Reyðarfjörður **12**:9, **12**:11m

Skagafell **12**:9, **12**:11m

Skálafellshnúta, near Henabaergsjökull **12**:11m

Skardsheiði, Bogardfjardur **19**:337s

Skorradalur **12**:9, **12**:10m

Stöðvarfjörður **12**:9, **12**:10m

Teigarhorn, Berufjörður **12**:7–8h, **12**:10–11m, **17**:269s

Thyrið, at northeast end of Skorradalur **12**:9

Tindastóll Mountains, west of Skagafjörður **12**:9, **12**:10m

Topagata i Tunga, Hvítarsíða **12**:9

Uxhver (Oxhaver Springs), south of Húsavík **12**:21s

Zeolite localities **12**:5–26h,m,p,g

### IDAHO

Ambergris mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281s

Arizona mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m

B and B deposit, Big Creek district, Valley County **10**:301s

Bibliography of locality literature **18**:216

Bibliography of mineralogy literature **10**:17

Blackbear mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281

Borah Peak, Custer County **21**:483s

Bubblegum pocket, Sawtooth Mountains, Boise County **19**:215–216

Bunker Hill mine, Kellogg, Coeur d'Alene district, Shoshone County **12**:339–347h,m,g,p, **12**:388–389s, **13**:181s, **13**:274–275m, **13**:277p, **13**:283–285g,h,p, **13**:286s, **14**:56s, **14**:62s, **18**:162s, **24**:394h, **25**:60h,s, **25**:211s, **25**:380s

Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Caledonia mine, Kellogg area, Coeur d'Alene district, Shoshone County **12**:341m, **12**:343–346h,s, **13**:275m, **13**:282

Centerville (near), Boise County **16**:152s, **19**:332s

Clark County **18**:244s

Coeur d'Alene district, Shoshone County **13**:273–285h,g,m,p

Custer mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281s

Deadwood-Jersey vein (see Bunker Hill mine **13**:283–285)

Emerald Creek garnet area, near Fernwood, St. Joe National Forest, Benewah County **11**:57h

Evolution mine, northwest of Osburn, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Hercules mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Hypotheek mine, French Gulch, south of Kingston, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

*Idaho Minerals* **20**:489b

Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m, **13**:282

Last Chance group, Kellogg, Coeur d'Alene district, Shoshone County **12**:341m, **12**:342–346s

Last Chance mine, Atlanta district, Elmore County **18**:84s

Little Giant mine, Mullan area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Lookout Mountain mine, south of Pinehurst, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Lucky Peak Dam site, east of Boise **23**:424s

Luella mine, Latah County **24**:55h

Midnight mine, Mullan area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280s

*Moscow [Idaho] Opal Mines, The* **11**:51b

Mullan area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Northern Light mine, south of Pinehurst, Coeur d'Alene district, Shoshone County **13**:274m

Omaha mine, Kellogg area, Coeur d'Alene district, Shoshone County: **13**:275m, **13**:282; see also Idaho—Caledonia mine

Ontario mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m

Owyhee County **22**:382s

Pappoose Creek (see Squaw Creek)

Pontiac (Terrible Edith) mine, east of Murray, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Poor Man's lode, Owyhee County **19**:325–326s

Quaker adit, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m, **13**:283

Russel mine (tunnel), Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281

Sandow mine, Kellogg area, Coeur d'Alene district, Shoshone County: **13**:275m, **13**:282; see also Idaho—Caledonia mine

Sawtooth batholith, adjoining parts of Boise, Custer, and Elmore counties **17**:342s, **18**:147s, **24**:185–202h,g,m,p

Senator Stewart mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m, **13**:282–283

Sherman mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280–281

Sierra Nevada mine, Kellogg area, Coeur d'Alene district, Shoshone County **12**:341m, **12**:342–346s, **13**:275m, **13**:282

Snowstorm mine, east of Mullan, Coeur d'Alene district, Shoshone County **13**:280s

Squaw and Pappoose creeks, west of Riggins (exact locality lost), Idaho County **1**:97

Standard-Mammoth mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281

Sullivan mine, Kellogg, Coeur d'Alene district, Shoshone County **12**:339–340h, **12**:341m, **12**:347s, **13**:275m, **13**:276p

Sunshine mine, Kellogg, Coeur d'Alene district, Shoshone County **25**:60s

Tamarack mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281s

Terrible Edith mine (see Pontiac mine)

Tyler mine, Kellogg, Coeur d'Alene district, Shoshone County **12**:341m, **12**:343–346s

Viola mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m

You-Like mine, northwest of Mullan, Hunter district, Shoshone County **1**:75–79s, **13**:274m, **13**:280s

### IDAITE

#### Chile

Chuquicamata **9**:(323)

#### Namibia

Tsumeb (fibrous) **8**:T26n

### IDRIALITE

#### Slovenia (formerly Yugoslavia)

Idria mine (green resinous nodules, fl. blue-white) **22**:207h

### IKAITE

#### Russia (formerly USSR)

Bielo More, Kola Peninsula (calcite after) **25**:46

### IKUNOLITE

#### Australia

##### New South Wales

Kingsgate mines (plumbian) **16**:282p

### ILLINOIS

Annabell Lee mine, near Cave-in-Rock, Hardin County **17**:147s, **18**:360s, **20**:390s, **21**:483s, **24**:48s

Bibliography of locality literature **18**:216

Bibliography of mineralogy literature **10**:17–18

Denton mine, near Cave-in-Rock, Hardin County **14**:55s, **18**:148s, **20**:390s, **24**:48s

Gaskin mine, Pope County **6**:235–236

Gray's quarry, south edge of Hamilton, Hancock County **1**:51ff,s, **19**:200–201s

Hamilton/Warsaw area, Hancock County **2**:53–56s

Minerva (Minerva #1) mine, near Cave-in-Rock, Hardin County **1**:140–141s, **5**:266–269s, **24**:47–48s,h

### "ILLITE"

*Group of mica-clay species*

#### Brazil

##### Minas Gerais

Énio pegmatite, near Galiléia **12**:72n

#### United States

##### Arizona

Bisbee district **12**:307

##### Colorado

San Juan Mountains **10**:358n

##### New Mexico

Harding mine ("hydromuscovite" id as) **8**:123

### ILMENITE

#### Brazil

##### Bahia

Ibitiara: golden rutile oriented on **21**:96–97p; id as hematite **21**:501

##### Minas Gerais

Jaguarçu pegmatite (micro anhedral) **25**:169

##### São Paulo

Jacupiranga mine: crystals to 1 cm **15**:268; interzoned with magnetite **15**:265q



## GENERAL INDEX

- Canada**  
 British Columbia  
 Ice River complex (15 mm tabular) **12:224**  
 Ontario  
 Faraday (Madawaska) mines, near Bancroft (crystals to 30 kg; anatase after some) **13:76, 13:77p**  
 Québec  
 Mt. St-Hilaire: **10:103n**; plates, rosettes to 20 mm **21:315**  
 Poudrette quarry (7 mm euhedral) **25:209p**
- Italy**  
 Tuscany  
 Grotta d'Oggi, Elba **16:358c**
- Malawi**  
 Mt. Malosa region (rosettes to 15 mm) **25:34**
- Moon**  
 Tabular crystals to 2 mm **1:20**
- Norway**  
 Omdal, Froland (4 cm euhedral) **22:47**
- Pakistan**  
 Tormiq, Gilgit Division (2 cm crystals) **23:436n**
- Portugal**  
 Monte Redondo quarry (equant to thin, to 1 cm) **2:42n**
- Switzerland**  
 Two localities **10:122n**
- United States**  
 Arizona  
 New Cornelia mine, Pima County **14:296**  
 Colorado  
 Pikes Peak region **16:228n**  
 Sloan diatremes, Larimer County (2.5 cm anhedral) **13:207**  
 Georgia  
 Graves Mountain **16:449–450**  
 Massachusetts  
 Chester emery mines **9:239**  
 New Mexico  
 Harding mine (crystals to 3.8 cm) **8:124n**  
 Paramount Canyon, Sierra County (epitaxial on bixbyite) **20:54c,p,d**  
 Oregon  
 Summit Rock, Douglas County (some with "swirly" overgrowth) **16:139, 16:143–144p**  
 Pennsylvania  
 French Creek mine (cleavages) **25:115**  
 Texas  
 Clear Creek pegmatite, Burnet County (flabelliform) **8:89**  
 Wisconsin  
 Rib Mountain, Marathon County **12:95**
- Wales**  
 Gwynedd  
 Prenteg (grains) **23:397**
- 
- ILMENORUTILE**
- Italy**  
 Tuscany  
 Grotta del Guerrino, Elba **16:358c,q**
- 
- ILSEMANNITE**
- United States**  
 Arizona  
 Lavender pit, Bisbee district **12:307**  
 Nevada  
 Getchell mine, Humboldt County (dark blue coatings) **16:20**
- 
- ILVAITE**
- Vs. babingtonite **18:436–437, 18:438d**
- Greece**  
 Seriphos, Kykladhes (euhedral to 30 cm) **22:305**
- Russia (formerly USSR)**  
 Dal'negorsk: **24:226n**; crystals to 3.8 cm **23:437n, 25:218n**
- United States**  
 Alaska  
 Jumbo mine (near), Prince of Wales Island (to 20 cm) **8:8**  
 Colorado  
 North Pole Basin, Treasury Mountain (micro crystals) **9:252–253**
- 
- IMANDRITE**
- Russia (formerly USSR)**  
 Kola Peninsula **24:(389)**
- 
- IMHOFITE**
- Switzerland**  
 Lengnabach quarry **8:276q, 8:279q, 25:(140)**
- 
- IMITERITE**
- United States**  
 California  
 Golden Rule mine, Tuolumne County **21:500**
- 
- INCLUSIONS AND PHANTOMS**
- Acmite, astrophyllite in quartz, Washington Pass, WA **14:51n**  
 Actinolite var. byssolite in apatite, Knappenwand, Austria **17:108p**  
 Ajoite in quartz, Messina mine, South Africa **22:193–195p**  
 Anatase in quartz, Ores and Metals mine, CO **19:104**  
 Aurichalcite in calcite: Graphic mine, NM **20:18**; Ojuela mine, Mexico **18:406p**  
 Boulangerite in quartz, Mt. Isa mine, Australia **19:478–479**  
 Calcite and albite in grossular, Mt. St-Hilaire, Québec, and East Woodstock, ME **19:326**  
 Chalcocite in quartz, Messina mine, South Africa **22:196**  
 Chalcopyrite: Bandora mine, CO (oriented in sphalerite) **19:245**; Ladywash mine, Derby, United Kingdom (in fluorite) **14:16**; Mt. Isa, Australia (in barite) **19:471**  
 Chamosite in quartz, Sherbrooke, Québec **20:215–216**  
 Chlorite in quartz: Albany, NH (phantoms and partially overgrown surfaces) **14:47p**; Grizzly Bear mine, CO **19:94**  
 Cinnabar in quartz, China **19:114, 19:115**  
 Copper in calcite: Derby, United Kingdom **14:16**; Magma mine, AZ (in calcite) **14:80–81p**; Michigan **23:M53–55p**  
 Copper in gypsum, Mt. Elliott mine, Australia **19:489**  
 Copper in quartz, Messina district, South Africa **22:197**  
 Cosalite in quartz, Chenzhou, China **22:217**  
 Cuprite in hemimorphite, Sunshine #4 mine, NM **20:39–40**  
 Duftite oriented in calcite, Tsumeb, Namibia **18:407p**  
 Elbaite in Japan-twinning quartz **19:331**  
 Fluid inclusion containing 14 crystals of at least 7 species **10:55p**  
 Fluid in quartz: Asturias, Spain (fluorescent and with moving bubbles) **23:76**; Guerrero, Mexico (with moving bubbles) **14:57**; Royal Scepter mine, NM (with moving bubbles) **19:332**; Sardinia, Italy **18:141–142p**  
 Fluorite, micro cube with octahedral phantom, Mantena, Brazil **24:311, 24:312p**  
 Galena in quartz, Bandora mine, CO (cubes) **19:245**  
 Garnet, inclusions in **24:64**  
 Gemstones, in **19:125b**  
 Goethite in quartz: Atlas Mountains, Morocco **18:143p**; Crystal Peak area, CO (in var. amethyst; "onegite") **16:219p**  
 Gold in calcite, San Pedro mine, NM **20:63, 20:391**  
 Gold in quartz, Darwin area, CA (perfect octahedron) **19:127**  
 Hedenbergite in quartz, Mega Xorio, Greece **20:395**  
 Hematite in calcite, Cumberland, England **18:407p**  
 Hematite phantoms in quartz: Messina mine, South Africa **19:116**; Stephenson-Bennett mine, NM **20:30**  
 Malachite in calcite, Bisbee, AZ **18:407p**  
 Negative crystals in quartz **18:141–142p**  
 Papagoite in quartz, Messina mine, South Africa **22:194–195p, 22:197**  
 Phantoms in quartz: Bridgeport, PA **18:141p**; Crystal Park, MT (amethystine) **18:141–142p**  
 Photographing inclusions in doubly refractive minerals with polarizers **14:51, 24:311**  
 Pyrite (acicular) in barite, Metaline Falls, WA **22:63–64n,p**  
 Pyrite (euhedral) in quartz: **18:143p**; Goldmeyer Hot Spring, WA **14:51p**; King County, WA (some outlining phantoms) **16:148–149p**; Reed's Gap quarry, CT (preferentially deposited along phantom crystal edges) **18:145–146p**; Spruce Peak deposit, WA **9:37**  
 Pyrite in euhedral dolomite, Eugui quarries, Spain (micro) **22:141n**  
 Pyrite preferentially deposited on edges of fluorite, etc., Asturias, Spain **23:71p, 23:73**  
 Pyrrhotite in quartz: Mifflin County, PA (moveable crystal in fluid inclusion) **18:435p**; Morro Velho mine, Brazil **4:228n**  
 Pyrrhotite on and in phlogopite, Jensen quarry, CA **15:279**  
 Quartz in quartz, "Herkimer Diamond" in quartz **18:361**  
 Quartz in spessartine, Ash Creek, AZ **23:488**  
 Rhodonite in galena: Broken Hill, Australia **19:273**  
 Rutile in quartz: Anjanabonoina, Madagascar **20:197**; Hardangervidda, Norway **20:(397)**; Itabira, Brazil **20:(394)**; Schafkar, Austria (sagenitic) **13:173n**  
 Rutile in quartz, rutile epitaxial on hematite, in quartz, Rio Grande do Sul, Brazil **18:143p**  
 Sand in calcite, Cabrerets, France **20:395**  
 Solid micro inclusions (Microminerals column) **24:311–314**  
 Sphalerite in quartz, Fat Jack mine, AZ **22:27n**  
 Sugilite in quartz, Wessels mine, South Africa **22:290, 22:294p**  
 Sulfur powder, mobile, in pyrite-shaped cavities in quartz **11:99–100**  
 Topaz in quartz, Ouro Preto, Brazil **20:228**  
 Various species in quartz: Messina district, South Africa **22:198–199**; Outlaw mine, NV **22:180**  
 "Veil" in quartz, **18:142p**
- 
- INDERBORITE**
- Kazakhstan (formerly USSR)**  
 Inderskoje mine, Gurijev Oblast (crystals to 4 cm) **24:389n**
- 
- INDIA**
- Aurangabad, southeast of Nasik, Maharashtra **7:262–264, 22:217s**  
 Aurora quarry (see Pandulena Hill)  
 Bombay, Maharashtra **4:233–234s**  
 Bombay quarry, near Kandivli, Maharashtra **7:252–256, 18:437s**  
 Deccan basalts, Maharashtra **7:248–264g,h,p**  
 Hyderabad area, Andhra Pradesh **21:489s**  
 Jalgaon, northern Maharashtra **22:390s, 23:434s, 24:235s**  
 Jalna, near Aurangabad, southeast of Nasik, Maharashtra **7:262–264**  
 Junnar, near Narayangaon **23:434s**

## GENERAL INDEX

- Kadakvasla (see Poona)  
 Lonaula, northwest of Poona, Maharashtra **7:256**  
 Lonavla (Lonaula, Maharashtra?), **24:50n**  
 Malad quarry, near Kandivli **18:437s**  
 Mysore district, Karnataka **9:193s, 10:31s**  
 Nasik district, Maharashtra **7:260–262, 15:167s, 17:389–390s**  
 Odhas quarry, near Nasik, Maharashtra **7:262**  
 Orissa **19:271s**  
 Pandulena Hill (West) quarries, near Nasik, Maharashtra **13:303–313h,g,m,p**  
 Panduleni quarry, near Nasik, Maharashtra **7:260**  
 Panvil, west of Poona, Maharashtra **7:256**  
 Panwell (Panvel?), Maharashtra **11:115s**  
 Pashan Hills, Poona district, Maharashtra **14:375s, 21:489h**  
 Pathardy quarry, near Nasik, Maharashtra **7:260–262**  
 Pimplas quarry, near Nasik, Maharashtra **7:262**  
 Poona area, Maharashtra **7:260, 11:27–28h, 11:114–115s, 12:381s, 18:410s, 20:234s, 20:396, 20:484s, 21:256h,s, 21:489h, 22:415–420**  
 Sayad Pimpri quarry, Nasik, Maharashtra province **21:489s**  
 Wagholi quarries, northeast of Poona, Maharashtra province **20:396s, 22:415–420g,h,m,p**
- INDIANA**  
 American Aggregate quarry, near Indianapolis **18:360s**  
 Bedford (near), Monroe County **22:351–354g,h,m**  
 Bethel Church fossil dig/phosphate locality, Patoka State Fish and Wildlife Area, Pike County **15:351–357m,p,g,h**  
 Bibliography of locality literature **18:216**  
 Bibliography of mineralogy literature **10:18**  
 Brummet Creek, Brown County **12:385s**  
 Hoosier Stone and Concrete Corp. quarry, Salem, Washington County **14:7–12h,g,m,p**  
 Pleasant Ridge area **18:409s**
- “INDICOLITE”**  
 See *Tourmaline Group*
- INDIGERITE**  
**Russia (formerly USSR)**  
 Upper Indigirki River, Yakutia (newly described; micro fibrous rosettes) **3:187h,q**
- INDONESIA**  
 Cremas (near), West Java **21:489s**  
 Java Sea, east of Jakarta **4:205g**  
 Tambang Sawah, Benkoelen district, Sumatra **16:55s**
- INESITE**  
**Australia**  
 New South Wales  
 Broken Hill **7:29**  
**Japan**  
 Kawazu mine, Shizuoka **9:(113)**  
**South Africa**  
 Cape Province  
 N’Chwaning II mine: **23:(436)**; prismatic orange to 6 mm **22:287p**  
 Wessels mine: **24:365–367p**; compact crystalline **9:148p**; fibrous **23:277**; spheres, bladed sheets **22:287p**; spheres, bladed to 1 cm **24:51p, 24:52**  
**United States**  
 California  
 Hale Creek mine, Trinity County **18:341–347d,h,c,p,q**  
 Colorado  
 Equity mine, Mineral County (spheres, fans to 2 cm) **11:35q**  
 Four localities **11:35n**
- INOYITE**  
**United States**  
 California  
 Biddy McCarthy mine, Inyo County (after inyoite) **5:175–176**  
 Corkscrew mine, Inyo County: **8:431–432c**; colemanite after, to 7 cm **5:175–177p**
- IODARGYRITE**  
**Australia**  
 New South Wales  
 Broken Hill: **7:29q**; after miersite **12:110**  
**Brazil**  
 Minas Gerais  
 Morro da Pinguieira prospect, Serra do Parela (massive) **6:284n**  
**Chile**  
 Chañarcillo **10:202–203n**  
**Germany**  
 Westerwald  
 Schöne Aussicht mine **7:231p**  
**Spain**  
 Hiendelaencina district, Guadalajara (crusts) **23:248**  
**United States**  
 Arizona  
 Campbell shaft, Bisbee **24:432n**  
 Mammoth mine, Pinal County **11:173**  
 Colorado  
 Chrysolite mine, Leadville district (“iodyrite”) **16:196n**  
 Nevada  
 Majuba Hill mine (pure; minute tabular) **24:174**
- “IODYRITE”**  
 See *Iodargyrite*
- IOWA**  
 Bibliography of locality literature **18:216**  
 Bibliography of mineralogy literature **10:18**  
 Coralville, Johnson County **24:311s**  
*Fabulous Keokuk Geodes, The* (vol. 1) **2:35–36b**  
 Linwood mine, east of Buffalo, Scott County **23:231–238h,g,p,m**  
 Lost Creek mine, near Oskaloosa, Mahaska County **4:188–190g**  
 Mich mine, Rose Hill, Mahaska County **4:188–190g**  
 Ollie quarry, near Ollie, Keokuk County **22:382s**  
 Pint’s quarry, Raymond, Black Hawk County **20:473–479m,p,h,g, 24:311s**
- IOWAITE**  
**South Africa**  
 Transvaal  
 Palabora mine (terminated crystals) **24:52n**
- IRAN**  
 Anarak region **8:390s, 24:464g,h**  
 Chah Kharboze, near Anarak **3:201s**  
 Chah-Khuni mine, Anarak region **9:114s, 11:294m, 11:295**  
 Crown jewels, Martin Ehrmann and **25:360**  
 Dovez open pit, near Shariar mine, Minab district **4:18s**  
 Sebarz mine, Anarak region **11:294m, 11:295**  
 Seh-Changi deposit, Neyband region, southern Khorassan **11:293–297g,p,m,h**  
 Soghan mine, near Abdasht mine, Esfandaque district, south of Kerman **4:18–20s**  
 Talmessi deposit, west of Anarak **24:463–464h,g**
- IRANITE**  
**Iran**  
 Anarak **8:(390)**  
 Chah-Khuni mine, Anarak region **9:(114)**  
 Seh-Changi deposit (micro crystals) **11:295–296p,q**
- IRAQ**  
 Akashat **25:141s**
- IRELAND (REPUBLIC OF)**  
 See also *Northern Ireland*; *United Kingdom*  
 Ft. Lismeenagh, Shenagolden, County Limerick **20:396s, 24:392s**  
 Garron Point, County Antrim **10:173**  
*Geology of Ireland, The* **13:175b**  
 Gortdrum mine **14:16s**  
 Magheramorne quarry, near Larne, County Antrim (micro) **10:173s**  
*Manual of the Mineralogy of Great Britain and Ireland* (1858): **4:79–80b**; facsimile edition with additions **11:49b**  
 Mogul mine, Tipperary **15:168s**  
 Mt. Croghant **13:362s**  
 Parkgate quarry, Templepatrick, County Antrim **10:174s**  
 Tynagh quarry, Galloway district **20:396s**  
 Wicklow Mountains **13:362s**  
 Zeolite minerals of northeast Ireland **10:173–176**
- IRIDIUM**  
**Russia (formerly USSR)**  
 Ural Mountains: “osmiridium,” auriferous **13:(398)**; “osmiridium,” 2 cm nugget **11:59n**
- IRON**  
**Greenland**  
 Disko Island (Qeqertarsuaq) (masses to 25 tons) **24:G51–52p,h**  
**Moon**  
 In troilite; also meteoritic and in glass **1:21**
- ISHIKAWAITE**  
**Japan**  
 Ishikawa-machi, Ishikawa-gun, Fukushima-ken **8:(517)**
- ITALY**  
 Alpine rare-earth mineral localities **8:287–292**  
 Arrigo **12:382s**  
 Gold localities (placer and lode) **9:56**  
 Marino, Colle Cimino **9:114s**  
*Minerali Alpini e Prealpini* **7:315–317b**  
 Navara **20:396s**  
 Notes from Italy **15:41**  
 Uranium minerals **20:490b**  
**Bologna**  
 Ca’de Ladri **18:141s, 18:144s**  
 Castellaccio **18:141s, 18:144s**  
**Campania**  
 Monte Somma (Vesuvius) **1:86s, 6:76s, 12:43s, 14:179s, 15:41s, 15:146s, 17:269s, 20:156–157s, 23:435s**  
 Nocera (near) **12:377s**  
**Elba (see Tuscany)**  
**Emilia-Romagna**  
 Between Bologna and Modena **5:75s**  
 Perticara, Romagna reg. **8:59s**  
**Lazio (Latium)**  
 Campomorto, Montalto district Castro, Viterbo **9:40s**  
 Locality not specified **20:396s**  
 Sacrofano quarry, **23:434s**  
 Valle Biachella, Sacrofano, Roma **23:435s**  
 Vallerano, Strada Luarentina, Roma **23:435s**  
 Vetarella, Vico **23:434s**  
 Vetralla, Viterbo **23:435s**  
**Liguria**  
 Bregaceto, Genoa **19:337s**  
 Cassagna mine, Genova **10:163s**  
 Faiallo Pass **10:86**  
 Gallena **20:463s**  
 Libiola mine, Sestri Levante, Genova **25:215h,s**  
 Localities not specified **19:126b, 20:490b**  
 Loreto mine, near Castiglione **13:363s**

- Monte Brigaceto, near Genoa **15:41s**  
 Val Gave (Gave-Tal), northwest of Genoa **10:85m, 10:86**  
 Val Sansobbia (Sansobbia-Tal), above Albisola **10:86**
- Lombardy**  
 Anzasca Valley, near Macugnaga **13:363s**  
 Baceno (roadcut near), Valle Antigoria **15:41s**  
 Baveno **8:291s, 14:157–168g,h,m,p, 18:159s, 20:490b**  
 Beura, Ossola **8:291s**  
 Cava Diverio, Baveno **24:236s**  
 Cervandone (see Monte Cervandone)  
 Ciappanico, Val Malenco, north of Sondrio **3:122**  
 Cirla quarry, Feriolo, near Baveno **14:157h, 14:159m**  
 Corna Rossa, Val Malenco, near Capanna Desio (Desio-Hütte), Monte Disgrazia **10:87**  
 Cuasso al Monte, near Varese **8:291s**  
 Diverio quarry, near Baveno (see Giacomini quarry)  
 Dosso dei Cristalli, Val Malenco, north of Sondrio **3:122–123**  
 Francsca **10:87**  
 Giacomini (Diverio) quarry, Agrano, near Baveno **14:157h, 14:159–160m,p**  
 Lake Maggiore, Baveno area **14:157–168h,p,g,m**  
*L'Alpe Devero ed i Suoi Minerali* **24:399b**  
*Minerali Ossolani* **11:51b**  
 Montecatini quarry, Baveno (see Oltrefiume quarry)  
 Monte Cervandone, Ossola **8:291s, 8:517s, 20:152s, 21:489s, 23:434–435s**  
 Montorfano, near Baveno **8:288s, 8:291s**  
 Oltrefiume (Montecatini) quarry, Baveno **14:157h, 14:159m**  
 Ossolani area **19:126b**  
 Piona, Lago di Como **8:288**  
 Pizzo Cervandone (see Monte Cervandone)  
 Pizzo Tre Mogge **10:87**  
 Pizzo Ventina, summit of Monte Disgrazia **10:87**  
 Rocca (di) Castellaccio, Val Malenco **10:87, 20:157–158s**  
 Sferlun quarry, Val Malenco, north of Sondrio **3:122**  
 Sondalo, Valtellina **8:288**  
 Trontano, Ossola **8:291s**  
 Val Codera, near Lago di Como **8:288**  
 Val Formazza **9:57–58**  
 Val Malenco, north of Sondrio **3:120–123m,g, 8:291s, 10:85m, 10:87**  
 Val Masino **8:288s, 8:291s**
- Lombardy/Trentino Alto-Adige**  
 Adamello region **8:291s**
- Lombardy/Valle d'Aosta**  
 Val di Ayes, south of Monte Rosa **13:363s**
- Molise**  
 Gambatesa, Campobasso **11:15s**
- Piemonte**  
 Antronapiana, Valle d'Antrona, west of Domo-dossola **10:86**  
 Ara **15:144s**  
 Arvogno, Val Vigizzo **8:291s**  
 Beura, near Domodossola **8:288s**  
 Condove, Val di Susa (Susa-Tal) **10:86**  
 Cortino, Val Vigizzo **8:291s**  
 Elvo river near Bessa **9:56**  
 Laietto, Val di Susa **23:434s**  
 Laso Palino **19:337s**  
 Maggiondone **7:84–85s**  
 Orcesco, Val Vigizzo **8:292**  
 Piano della Mussa, above Ceres, northwest of Turin **10:85–86**  
 Piano Lavonchio, near Craveggia, Val Vigizzo **8:291s**
- Po River, near Turin **13:363s**  
 Premosello area **10:86s**  
 Traversella area mines **4:39–41h,g, 20:490b**  
 Val Chisone (Chisone-Tal), West of Turin **10:85m, 10:86**  
 Val Chisone, off the Cuneo Valley **23:434s**  
 Val d'Ala (Ala-Tal), northwest of Turin **10:85m, 10:86, 20:490b**  
 Val di Susa (Susa-Tal), west of Turin **10:85m, 10:86**  
 Valle Antrona **8:291s**  
 Valle di Fassa, Trentino **20:490b**
- Sardinia**  
 Arcu su Linnarbu, Capoterra, Cagliari **18:181–184h,g,m**  
 Bargas mine, near Iglesias **15:372s**  
 Domusnovas **15:371–372s**  
 Iglesias **15:371–372s**  
 Localities not specified **19:305–310h,m, 19:340b**  
 Marrubiu **12:384s**  
 Monte Argentu, Santa Lucia **19:305**  
 Monteponi, Iglesias **15:371s, 20:152s**  
 Montevecchio district **15:371s**  
 Notes from Italy **15:371–372g,s**  
 Osilo (near) **23:277s**  
 Pala su Sciusiu, Santa Lucia **19:305, 19:307s**  
 Punta sa Torre mine **15:372s**  
 Sa Duchessa mine **15:372s, 19:305–308h,m**  
 Santa Lucia **19:305–310h,m**  
 Santa Lucia fluorite mine, near Buggeru **15:372s**  
 Seddas Middizis mine, near Iglesias **15:372s**  
 Siliusi, near Cagliari **9:192s**  
 S'Oreri mine, Santa Lucia **19:(305)**  
 Su Corovau mine, near Domusnovas **15:372s**  
 Su Sizzimareddu, Santa Lucia **19:307s**
- Sicily**  
 Aci Castello, Etna **8:390s, 9:113s, 17:205s, 20:152**  
 Agrigento **10:179s, 17:205h**  
 Biancavilla **17:205s**  
 Etna **14:179s**  
 Lachea, Cyclopean Islands **17:205s**  
 Localities not specified **14:54s, 17:205–206m,h**  
 Notes from Italy **17:205–206g,m,s**  
 Racalmuto **12:383s**  
 Santa Lucia, near Iglesias **11:114s**  
 Santa Maria la Timpa **17:205s**
- Trentino Alto-Adige**  
*Formerly South Tyrol*  
 Ahrntal (Valle Aurina) **8:287**  
 Le Chiuse, near Bressanone **8:291s**  
 Monzoni **11:15s**  
 Sterzinger Hütte, Wildkreuzjoch, Pfitschertal, South Tyrol **10:87**
- Tuscany**  
 Allori mine, Santa Barbara area, Upper Valdarno basin **25:294–298m,g**  
 Artana quarry, Carrara region **18:267m**  
 Arvogno, Val d'Ossola, Novara **23:435s**  
 Battagliana quarry, Carrara region **18:267m**  
 Bicchieri quarry, Carrara region **18:267m**  
 Boccheggiano region, near Massa Marittima **10:281–291h,m,g,p, 19:337s**  
 Buca della Vena mine, Mt. Stazzema **17:261h,g,m,p**  
 Calagio quarry, Carrara region **18:267m**  
 Campanili quarry, Carrara region **18:267m**  
 Campiano mine, Grosseto, Boccheggiano district **18:366s, 20:236s**  
 Carbonera quarry, Carrara region **18:267m**  
 Carrara marble quarries **18:263–296h,g,p,m**  
 Carrara region **10:122, 14:179s, 15:41**  
 Cassagna mine, near Chiavara, Genoa **11:15s**  
 Castelnuovo mine, Santa Barbara area, Upper Valdarno basin **25:294–298m,g**  
 Catri, San Ilario in Campo area, Elba **16:(355)**
- Cetine mine, near Rosia, Siena **8:285, 15:27–36m,h,g,p, 23:435s**  
 Colle Stretto quarry, Carrara region **18:267m**  
 Cottino mine, Lucca **19:325s**  
 Crestola quarry, Carrara region **18:267m**  
 Elba: **11:27s, 16:353–363h,g,m,p; iron mines 4:140h**  
 Fabbriotti quarry, Carrara region **18:267m**  
 Faciatoia, San Piero in Campo, Elba **16:355m**  
 Fantiscritti (Galleria district) quarry, Carrara region **18:267m**  
 Filone della Speranza, San Piero in Campo, Elba **16:355m**  
 Fonte del Prete, south of San Piero in Campo, Elba **16:355m, 16:357p**  
 Fortullino, south of Quercianella (Livorno) **5:207–208, 12:383s**  
 Fossa degli Angeli quarry, Carrara region **18:267m**  
 Fosso Stabbiali, San Piero in Campo area, Elba **16:(355)**  
 Gavorrano, Grosseto **9:227s**  
 Gioia quarry, Carrara region **18:267m**  
 Gorgolinato, San Ilario in Campo area, Elba **16:(355)**  
 Graziano, San Ilario in Campo area, Elba **16:(355m)**  
 Grotta d'Oggi, northeast of San Piero in Campo, Elba **16:354–356m,p**  
 I Canili, San Piero in Campo area, Elba **16:(355)**  
 I Forcione, San Ilario in Campo area, Elba **16:(355m)**  
 La Facciata quarry, Carrara region **18:264p, 18:267m**  
 La Piastra quarry, Carrara region **18:267m**  
 La Tagliata quarry, Carrara region **18:267m**  
 Latera caldera, Pitigliano **9:115s, 9:254s**  
 Lavane, Upper Valdarno basin **25:294–298m,g**  
 Le Fate, San Piero in Campo area, Elba **16:(355)**  
 Lorano Basso quarry, Carrara region **18:278s**  
 Lorano quarry, Carrara region **18:267m, 18:296p**  
 Lucchetti quarry, Carrara region **18:267m**  
 Mastaglino, San Ilario in Campo area, Elba **16:(355m)**  
 Miniera del Bottino, Seravezza **11:108h**  
 Montalto di Castro mine **18:366s, 21:489s**  
 Montato, Manciano **18:160s**  
 Monte Capanne, Elba **16:354m**  
 Montecatini quarry, Carrara region **18:267m**  
 Niccioletta region, Boccheggiano, near Massa Marittima **10:281–289h,m,g,p, 21:250s, 23:434s**  
 Pereta mine, Scansano, between Manciano and Grosseto **15:19–26m,h,p,g, 23:435s**  
 Pianello quarry, Carrara region **18:267m**  
 Pietrasanta, Castello Valley **15:250s**  
 Pitigliano **9:115s**  
 Poggio Domicio quarry, Carrara region **18:286s**  
 Polvaccio quarry, Carrara region **18:267m**  
 Portocciolo, Elba **22:305s**  
 Pradetto quarry, Carrara region **18:267m**  
 Prato alla Valle, San Piero in Campo area, Elba **16:(355)**  
 Ravaccione quarry, Carrara region **18:267m, 18:278s**  
 Rio Marina, Elba **9:223s, 9:224–225s, 9:227s, 9:228s**  
 San Piero, Campo, Elba **18:260s**  
 Tafone mine, near Manciano **15:117–118s**  
 Tecchia quarry, Carrara region **18:267m**  
 Upper Valdarno (Upper Arno Valley) basin **25:293–299h,m,p,g**  
 Val Bona quarry, Carrara region **18:267m**  
 Valle del Frigidio, Apuane Alps **10:302s**  
 Val Pulita quarry, Carrara region **18:277s**

## GENERAL INDEX

---

### Umbria

San Venanzo quarry, Terni **15:258s**

### Valle d'Aosta

Bellecombe, St. Vincent area **10:86, 15:117s, 23:434s**

Brusson, near Verres **7:34s**

Miage Glacier moraine, Monte Bianco (Mont Blanc) region **15:41**

Monte Rosso di Verra, Tal d'Ayas above Champoluc **10:87**

Montjovet, St. Vincent area **10:86**

St. Vincent area **10:86**

Ussel, St. Vincent area **10:86**

Val di Via, near Aosta **21:250s**

Val di Viu (Via?), Aosta **15:117s, 23:499s**

Val Veny, Monta Bianco **11:318**

### Venezia

Trentini mine, Vicenza **20:152s**

### Vicenza

*Contributo alla Mineralogia del Vicentino*  
**23:413b**

### ITOITE

---

#### Namibia

Tsumeb (formed during analysis by dehydration of fleischerite) **8:T26**

### IWAKIITE

---

#### Japan

Gozaisho mine, Fukushima-ken **9:(113)**