

GENERAL INDEX

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Rock consisting of either jadeite or nephrite

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JAROSITE

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South Australia
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Mexico

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Namibia

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United States

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Russia (formerly USSR)
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United States
 California
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South Africa
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JOHILLERITE

Namibia
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Namibia
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JONESITE

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- Washington
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KALINITE

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Chuquicamata **9:328n**

KALIOPHILITE

Italy

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“KALITHOMSONITE”

See Ashcroftite-(Y)

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- Énio pegmatite, near Galiléia **12:72n**
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- Mt. St-Hilaire **21:315**

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Colorado

San Juan Mountains **10:358n**

Georgia

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- Graves Mountain **16:450**

Nevada

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KARELIANITE

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Gabon

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KASOLITE

Gabon

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Namibia

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Zaire

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“KASOMPIITE”

See Glaukosphaerite

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Sweden

Brattfors mine, Nordmarks Odalfält mines, Värmland **1:165–166h**

KAZAKHSTAN

Formerly USSR

- Ajaguz **25:141s**
- Akschatau **24:394s, 25:47s, 25:61s**
- Aktshatan **20:398s**
- Altyn Tyube, Karaganda **23:495s; location 11:53h**
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- Dzhezkasgan **19:37s, 20:398s, 21:492s, 22:216s, 22:393s, 23:268s, 23:494s, 23:495s,h, 24:226s, 25:61s, 25:218s, 25:381s**
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“KEELEYITE”

See Zinkenite

KEGELITE

Namibia

Tsumeb: **8:(390);** minute crystals **8:T26n, 8:T63p;** perfect rosettes **13:143**

KEITHCONNITE

United States

Montana

Stillwater complex (announced) **11:111h**

KELDYSHITE

Norway

Langendalen, Larvik, Vestfold **8:(517)**

KELLYITE

Canada

Québec

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United States

North Carolina

Bald Knob, Alleghany County (micaceous grains) **12:171**

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KENTROLITE

South Africa

Cape Province

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Långban: **8:(517);** crystals to 6 mm **10:216**

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Franklin mine (micro spikes) **22:276p**

New Mexico

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KENYA

- Athi River area **20:396s**
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- Mt. Elgon **20:396s**
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KERMESITE

Bolivia

San Francisco mine, Poopó district **6:132**

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New Brunswick

Lake George mine (tufts to 15 mm) **22:266**

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Tuscany

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Slovakia (formerly Czechoslovakia)

Pezinok **17:(340), 19:122n**

United States

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Drew Hill sulfide veins, Aroostook County (red coating; id as schafarzikite) **22:382**

Zimbabwe (formerly Southern Rhodesia)

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- United States**
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- United States**
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- United States**
Arizona
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South Australia
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- Romania**
Baia Sprie (formerly Felsöbánya) **8**:(390)
- KLEEMANITE**
- Australia**
South Australia
Iron Knob (announced) **10**:302h,q
- KLEINITE**
- United States**
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- Texas
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- Bolivia**
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- KORBEITE**
- Japan**
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- Sweden**
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Colorado
Comstock mine, La Plata County **7**:276n
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- United States**
Nevada
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- KOGARKOITE**
- Canada**
Québec
Mt. St-Hilaire (grains, crystals to 10 mm) **21**:315
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Franklin: **12**:373; announced **11**:111h,q
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- Namibia**
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- United States**
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- KORNERUPERINE**
- Australia**
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Harts Range, northeast of Alice Springs **15**:100–101c,p,q
Strangways Range, northeast of Alice Springs **15**:(100)
- Greenland**
Fiskenæsset region: crystals to 23 cm, gemmy **11**:93–96h,c,q,p; some gemmy green; 23 cm crystal **24**:G12–14p,h,c

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KOSTOVITE

Locality not specified **13**:392q

Bulgaria

Chelopech (micro grains) **13**:396h

United States

Arizona

Campbell shaft, Bisbee (grains) **24**:432n

KÖTTIGITE

Vs. symplectite and parasymplesite **7**:186

Mexico

Durango

Ojuela mine: **15**:239–240p; poss. parasymplesite, crystals to 35 mm **7**:186p

Namibia

Tsumeb (micro acicular) **8**:T26n

United States

New Jersey

Sterling Hill mine **13**:35, **13**:38

“KOUKOVITE”

Species status uncertain

Japan

Tanohata mine, Iwate **8**:(391)

Russia (formerly USSR)

Kola Peninsula **24**:(389)

KRAISLITE

United States

New Jersey

Sterling Hill mine **13**:35, **13**:36p, **13**:38

KRENNERITE

Five world localities **13**:395c,p,q

Locality not specified **13**:392q

United States

Arizona

Campbell shaft, Bisbee **24**:432n

Contention mine, Tombstone district **11**:253

Colorado

Cripple Creek district, Teller County **13**:395p

KRÖHNKITE

Chile

Chuquicamata (crystals to 7 cm) **9**:325d,c, **9**:326p

KRUPKAITE

United States

Nevada

Outlaw mine, Nye County (id as hammarite) **22**:178

KRUTAITE

Bolivia

El Dragón mine, Potosí (1 mm crystals) **21**:138–139h,q,p,d

KRYZHANOVSKITE

In pegmatite environments **4**:114

Three world localities **4**:119

Canada

Yukon

Rapid Creek area: **8**:(517); kryzhanovskite-garyansellite, poss. relationship to phosphoferrite, crystals to 5 mm **23**:Y23–25q,c,p

United States

South Dakota

Tip Top mine **17**:243

KTENASITE

Greece

Kamaréza mine, Laurium (micro crystals) **7**:123n

Norway

Glomsrudkollen, Buskerud **9**:(113), **9**:318, **10**:124s, **13**:(170q)

Skutterud, Modum **8**:(390)

United States

Arizona

Campbell shaft, Bisbee **24**:432n

KULANITE

Canada

Yukon

Rapid Creek and Big Fish River areas: **8**:(517); kulanite-penikisite, euhedral to 1.5 cm **23**:Y24–25p,d,c

KURAMITE

United States

Arizona

Campbell shaft, Bisbee (grains) **24**:432n

KURNAKOVITE

United States

California

Kramer deposit, Kern County (clear cleavages) **6**:89, **6**:90p

“KÜSTELITE”

See Silver

KUTNOHORITE

Canada

Québec

Mt. St-Hilaire (minute crystals) **21**:315

Italy

Tuscany

Levane, Upper Valdarno (micro masses) **25**:297p, **25**:298

South Africa

Cape Province

N’Chwaning I & II and Wessels mines (fibers, masses to 20 cm) **22**:288

United States

North Carolina

Bald Knob, Alleghany County (grains) **12**:169

Moncure **16**:497p

KVANEFJELDITE

Greenland

Kvanefeld drift, Ilímaussaq complex **24**:G27n

KYANITE

Brazil

Bahia

Brumado district **9**:203

Minas Gerais

Barra do Salinas, Coronel Murta (terminated crystals to 15 cm; some black) **24**:49n

Barro Preto, northwest of São José do Jacuri (some black; some gemmy) **5**:229, **5**:230p

Furquim, Mariana **2**:12n

Quilombo, northeast of Capelinha (crystals to 30 cm) **5**:226, **5**:229

Sete Voltas, northwest of São José do Jacuri **5**:230

Greenland

Kangerdluarssuk Fjord (lenses to 50 cm x 10 m) **24**:G15

Norway

Kristiansund (near), Møre og Romsdal (sharp crystals) **23**:436n

Turkey

Balikesir (near) **9**:134

United States

Connecticut

Becker quarry, Tolland County (terminated crystals) **25**:377n

Georgia

Graves Mountain (granular; iron oxide-coated crystals) **16**:449–450p, **16**:453p, **16**:457p

Massachusetts

Chester emery mines (near) **9**:241

KYRGYZSTAN

Formerly USSR

Chauway **22**:393s

Kadamajaz, Osh Oblast **23**:494s

Kadamtschai **25**:140s

Kaidarkan **5**:290s

Tien-Shan region tin deposits **13**:237–238s

LABELS AND LABELING

- Attach a label to the specimen **2:260, 3:95–96, 3:137–138**
 Attached, protecting during cleaning **3:188, 23:285**
 Brazilian localities, difficulties with names in Minas Gerais **1:73, 2:10–13**
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 Cleaning antique labels **9:49–50, 9:290–291**
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 Locality roster project, Friends of Mineralogy: **5:204**; announced **5:155–156**
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 Montgomery, Arthur (label) **19:79**
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 Price codes on labels **9:186–187**
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 Standardized locality index, Friends of Mineralogy project **21:171**
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 Unlabeled specimens, exhibit of, to solicit locality information suggested **23:285**

LABOR DISPUTES AT MINES

Bisbee, Arizona (I.W.W.) **12:267h**

“LABRADORITE”

See also *Plagioclase Series*

Source of interference colors **3:18–22q**

Finland

Ylammaa (near) **24:389**

United States

Arizona

Bisbee district **12:307**

Shattuck (near), Wade Hampton, and Wolverine mines, Bisbee district **12:307**

Colorado

Italian Mountain area, Gunnison County **15:86n**

LABUNTSOVITE

Canada

Québec

Mt. St-Hilaire: **10:105, 10:107p, 13:242p**; epitaxial on elpidite **10:98p**; prisms to 10 mm **21:316p,d**

Poudrette quarry (elpidite oriented on) **25:209p, 25:210**

United States

Arkansas

Diamond Joe mine, Pulaski County **16:(151)**

Colorado, Wyoming, Utah

Green River formation **8:368–371**

LACROIXITE

- In pegmatite environments **4:125**
 New data, 3 world occurrences **2:235q**
 Three world occurrences **4:120, 4:125**

LAFITTITE

Chile

Iquique **16:(160)**

United States

Nevada

Getchell mine, Humboldt County (grains, micro crystals) **16:20**

LAMMERITE

Namibia

Tsumeb **13:141–142p,c,d**

LAMPROPHYLLITE

Canada

Québec

Mt. St-Hilaire (fibrous, bladed, prismatic to 1.2 cm) **21:316**

Greenland

Gardiner complex: **16:492n**; crystalline aggregates **24:G56n**

LANARKITE

England

Cumbria

Upper Roughton Gill mine, Caldbeck Fells (to 3 mm) **22:390n**

Scotland

Strathclyde

Susanna mine, Leadhills (crystals to 5 cm) **12:242, 12:247p,d**

United States

Arizona

C & B mine, Gila County (prismatic; altering to cerussite) **11:216p**

“LANCASTERITE”

Mixture of brucite and hydromagnesite

United States

Pennsylvania

Wood’s mine, Lancaster County **2:39–40h**

LANDESITE

Brazil

Minas Gerais

Zé Berto mine, near Linópolis (coatings, micro crystals) **14:236**

United States

Maine

Emmons quarry, Oxford County (2 mm bipyramidal) **22:382**

Havey (Berry) quarry, Androscoggin County **4:114, 16:375**

LANGBANITE

Sweden

Långban **10:216**

LANGITE

Canada

British Columbia

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

Québec

Mt. St-Hilaire (efflorescences) **23:429n**

England

Cornwall

Botallack district **24:281n**

Fowey Consols mine, John’s Lodge **13:(170q)**

Shropshire

Ladywell mine, Shelve (some pseudo-hexagonal twins) **13:167, 13:169p**

Germany

Rheinland-Pfalz

Ems district **15:(342)**

Namibia

Tsumeb (crystals) **8:T27n**

United States

Arizona

Bisbee district **12:307**

Grandview mine, Coconino County (silky crusts) **2:218, 2:221q**

Massachusetts

Loudville mine, Hampshire County: **6:297n**; micro **13:46**

Michigan

Clark mine, Keweenaw County **23:M66n**

Nevada

Majuba Hill mine (coatings) **24:174p**

Washington

Monte Cristo, Snohomish County **13:46n**

Wales

Dyfed

Nantycygel (Eaglebrook) mine **13:168n**

LANTHANITE-(Ce), -(La), -(Nd)

Greenland

Qaqarsuk complex (detected by x-ray) **24:G48n**

United States

Maryland

Medford quarry, Carroll County (micro laths) **6:299**

LARSENITE

Namibia

Tsumeb **13:142p**

United States

New Jersey

Franklin mine (micro laths) **22:276–277p**

“LAUBMANNITE”

Mixture of dufrenite, kidwellite, and beraunite

Relationship to other phosphates **4:114**

United States

Alabama

Indian Mountain, Cherokee County: green spheres to 1 cm **5:243p**; id as mixture of dufrenite and kidwellite **9:389**

LAUEITE

In pegmatite environments **4:116**

Numerous world occurrences **4:116**

Brazil

Minas Gerais

Conselheiro Pena **24:385n**

Énio pegmatite, near Galiléia (micro crystals) **12:71–72**

Germany

Bavaria

Hagendorf-Süd (id as ushkovite) **16:463–464q**

Namibia

Sandamab (id as ushkovite) **16:463–464q**

United States

Maine

Newry area (some “stewartite” id as) **6:201p**

New Hampshire

Palermo mine: **5:278n**; id as ushkovite **16:463–464q**

South Dakota

Tip Top mine **17:243c, 17:244p**

LAUMONTITE

Vs. leonhardtite; preserving laumontite **4:198**

Australia

New South Wales

Prospect quarry (prehnite after euhedral) **25:190, 25:191p**

Canada

British Columbia

Yellow Lake area, near Olalla **15:(93)**

Nova Scotia

Halls Harbour, Bay of Fundy **21:485n**

Denmark

Hvelgøet, Færoe Islands **12:17d**

Kvívík, Færoe Islands **12:18**

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- Ljósá, Færoe Islands **12:18**
 Vágar, Færoe Islands (1.5 cm “bowties”; dehydrated to “leonhardtite”) **12:18p**
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 Six localities (crystals to 1 cm) **12:17p, 12:18c,p**
- India**
 Bombay (crystals to 20 cm) **7:253**
 Pandulena Hill quarries, near Nasik: clusters to 38 cm **7:258p, 7:260**; massive, crystals to 8 cm **13:305–307**
- Italy**
 Lombardy
 Baveno area (to 6 cm) **14:164**
 Tuscany
 San Piero in Campo area, Elba **16:359**
- South Africa**
 Transvaal
 Palabora mine (some euhedral) **22:259**
- United States**
 Arizona
 Bisbee district **12:(307)**
 New Cornelia mine, Pima County **14:296**
 California
 Himalaya dike system, San Diego County (rosettes to 12 mm) **8:472**
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 Hawaii
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 Idaho
 Sawtooth batholith (prismatic to 1 cm) **24:194**
 Michigan
 Keweenaw Peninsula (several localities): massive, micro crystals **14:225**; vesicle fillings, crystals, some copper after **23:M66**
 New Jersey
 Paterson area, Passaic County (micro crystals) **9:171, 9:178p**
 Route 80 roadcut, Passaic County (prismatic) **1:174**
 Pennsylvania
 French Creek mine (chalky) **25:115**
 Washington
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 Wyoming
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- LAUNAYITE**
- Canada**
 Ontario
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 Taylor farm, near Madoc **13:(80)**
- LAURELITE**
- United States**
 Arizona
 Grand Reef mine, Graham County **24:(46)**
- LAURIONITE**
- Australia**
 South Australia
 Preamimma mine (crystals; some after arsenopyrite) **12:107**
 Western Australia
 Ashburton Downs (laurionite-paralaurionite; earthy) **24:208p, 24:213**
- Greece**
 Laurium area: **9:(113)**; crystals to 1 cm, in slag **7:121**
- LAURITE**
- Colombia**
 Cala **8:(390), 8:(517)**
- LAVENDULAN**
- Australia**
 South Australia
 Preamimma mine (crystals; some after arsenopyrite) **12:107**
 Western Australia
 Ashburton Downs (powder) **24:213**
 Kundip **9:(113), 9:(114)**
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- France**
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- Morocco**
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- Namibia**
 Tsumeb (crusts; zincian in crystals) **8:T27n, 8:T80p**
- Spain**
 Mazarrón area, Murcia (radial groups to 3 mm) **25:222n**
- United States**
 Michigan
 Mohawk mine, Keweenaw County (“freirinite” id as) **23:M66**
 Nevada
 Majuba Hill mine (spheres to 1 mm) **24:173p, 24:174**
 Utah
 Gold Hill mine (blades to 4 mm) **24:19p, 24:21**
- LAVENITE**
- Canada**
 Québec
 Mt. St-Hilaire: **13:(242)**; micro acicular **21:316**
- LAWSONBAUERITE**
- United States**
 New Jersey
 Sterling Hill mine (announced) **11:111h,q,c**
- LAWSONITE**
- United States**
 California
 San Francisco (near), Marin County **8:433n**
- LAZULITE**
- Afghanistan**
 Sar E Sang, Nuristan: 3 cm crystals **22:216n**; see also Lazurite—Afghanistan—Firgamu
- Brazil**
 Minas Gerais
 Fazenda Modelo, Serro **2:(12)**
- Canada**
 Yukon
 Rapid Creek area: **15:(45)**; euhedral to 2.5 cm; most twinned **23:Y25–27p,d,c,q**; 1.6 cm euhedral **22:53n**
- United States**
 California
 Champion mine, Mono County (masses to 10 cm; crystals) **8:480**
 Georgia
 Graves Mountain: euhedral crystals, some twins **16:450–452c,d,p**; phosphosiderite, jarosite after **10:48–49**; 3.5 cm crystal **25:214**
 Virginia
 Willis Mountain mine, Buckingham County **23:(428)**
- LAZURITE**
- Le Lapis Lazuli* **22:153b**
- Afghanistan**
 Firgamu, Badakhshan province (locality also given as Sar E Sang, Nuristan) **19:272n, 21:486n, 22:386n**
 Locality not specified (poss. after quartz, with afghanite core; also rimming mica) **24:384n**
- Canada**
 Ontario
 Ottawa area (gem-quality from glacial till) **23:428–429n**
- Greenland**
 Tupertalik, east of Sukkertoppen (Maniitsoq) (massive) **24:G15**
- Russia (formerly USSR)**
 Lake Baikal district **1:61h**
 Staryi mine, Lake Baikal district (lapis lazuli; also dodecahedral to 1 cm) **1:61–63p,q**
- United States**
 Colorado
 Italian Mountain area, Gunnison County (massive, as lapis lazuli) **15:83**
 Colorado, Wyoming, Utah
 Green River formation **8:368–371**
 New York
 Edwards mine, St. Lawrence County (id as haiyne) **3:273–274**
- LEAD**
- Toxicity of lead minerals **11:7**
- Canada**
 Québec
 Mt. St-Hilaire (patches) **21:316**
 Poudrette quarry **21:(486)**
- Sweden**
 Harstigen, Värmland (euhedral to 3 cm) **22:49**
 Långban: **10:215, 10:216p**; arborescent **22:49**
 Pajsberg mine, Värmland **1:165h**
 Värmland: 8 x 12 cm group **16:159p**; 4 cm crystals **15:45, 15:46p**
- Venezuela**
 El Dorado, Gran Sabana (1 cm octahedra) **24:223**
- LEADHILLITE**
- Compared with susannite **2:83q**
- Namibia**
 Tsumeb (crystals to 13 cm) **8:T27, 8:T49, 8:T63p**
- Scotland**
 Strathclyde/Dumfries and Galloway
 Leadhills-Wanlockhead district **12:242, 12:246p,d**
- United States**
 Arizona
 Campbell shaft, Bisbee district (crystals) **12:307**
 Cole shaft, Bisbee district **12:(307)**
 Grand Reef mine, Graham County: crystals to 6 mm **11:221p, 11:222**; 4 mm columnar **22:381**
 Mammoth mine, Pinal County (some prob. after susannite; crystals to 2.5 cm) **11:167p, 11:174**
 Rowley mine, Maricopa County (tabular to 6 mm) **5:18p**
 California
 Blue Bell mine, San Bernardino County (coatings) **8:496**
 Empress mine, Inyo County **15:15n**
 Massachusetts
 Loudville mine, Hampshire County: micro **13:45p, 13:46**; tabular **6:296**
 Missouri
 Grandby **8:(517)**

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Nevada
Chalk Mountain mine, Churchill County (1.9 cm crystals) **21:484n**

Wales

Dyfed
Nantycygel (Eaglebrook) mine **13:168n**

“LEAD HYDROXYLAPATITE”

See Hydroxylapatite

“LEDOUXITE”

Discredited

United States

Michigan
Keweenaw Peninsula **23:M66**

LEGRANDITE

Mexico

Durango
Ojuela mine: **2:52n**; “Aztec Sun,” 18 cm group **9:192, 9:194p**; 23 cm spray **11:387**
Nuevo Leon
Flor de Pena mine, Lampazos **2:52h**

Namibia

Tsumeb: 10 mm crystals **13:142**; to 2 cm **23:277, 23:278p**

United States

New Jersey
Sterling Hill mine **13:38**

LEIFITE

Canada

Québec
Mt. St-Hilaire **10:104, 21:316–317h,c,p,q, 23:499n**

Greenland

Narsarsuk pegmatite (acicular; prismatic to 2 cm) **24:G45h**

LEIGHTONITE

Chile

Chuquicamata (crystals to 1 cm) **9:325, 9:327p, 9:328**

Namibia

Tsumeb **13:142c**

LEITEITE

Namibia

Tsumeb: **8:(390), 9:43–44, 23:435n**; crystals to 6 cm **23:277, 23:278p**; masses **8:T27, 8:T59p**; newly described **8:T95–97h,q,p**; to 15 cm **24:235**

LEMOYNITE

Canada

Québec
Mt. St-Hilaire: **10:105**; bladed, fibrous to 25 mm **21:318p,d,c**

LENGENBACHITE

Switzerland

Lengenbach quarry **8:278p, 8:281p**

LENOBLITE

Gabon

Mounana (crusts) **6:239**

“LEONHARDITE”

Partially dehydrated laumontite

Distinct from leonhardtite **6:144–145**

Vs. laumontite **4:198**

“LEONHARDTITE”

See also Starkeyite

Distinct from leonhardtite **6:144–145**

LEONITE

Germany

Niedersachsen
Laliwerk Sigmundshal, Bokeloh bei Wunstorf (crystals to 7 cm) **8:390n**

LEPIDOCROCITE

Bolivia

El Dragón mine, Potosí (minute crystals) **21:143p**

Canada

Québec
Mt. St-Hilaire (powdery) **21:318**

Namibia

Tsumeb (needles) **8:T27n, 8:T85p**

South Africa

Cape Province
N’Chwaning II mine (1 mm flakes) **22:288**

United States

Arizona
Bisbee district **12:(307)**
Mammoth mine, Pinal County (id as hematite) **11:177**
Wisconsin
Rib Mountain, Marathon County (coatings) **12:95**

LEPIDOLITE

Brazil

Minas Gerais
Araçuaí area pegmatites **12:74**
Barra de Salinas (crystals to 4 cm) **22:216**
Cruzeiro mine **11:370**
Four localities **2:12n**
Itatiaia mine, near Conselheiro Pena: **9:317**; gemmy **9:298n**
José da Silva prospect, Araçuaí area (crystals to several kilograms) **12:74**
Jove Lauriano mine, near Linópolis **14:(235)**
Laranjeiras mine **11:379**
Taquaral, Itinga (balls) **24:49n**
Urubu pegmatite, Araçuaí area (some with rubellite) **12:75, 12:76p**
Virgem da Lapa pegmatites: crystals to 10 cm **7:130n**; single crystals to 10 cm **13:28**
Paraíba
Alto Benedito pegmatite (small flakes) **22:185n**

Italy

Tuscany
Elba: **16:359**; oriented on beryl **16:357n**

Namibia

Otjua mine **23:435n, 25:60**

Nepal

Hyakule pegmatite **16:417n**

United States

California
Himalaya dike system, San Diego County: 5 cm crystal **8:514**; oriented on muscovite **8:466p, 8:467**
Little Three mine, San Diego County (5 cm transparent) **8:515**
Stewart mine, San Diego County (crystals to 4 cm) **22:381s**

Connecticut

Gillette quarry, Middlesex County (crystals to 10 cm) **23:25, 23:27p**

Maine

After elbaite **16:385**
BB #7 quarry, Oxford County **16:(375)**
Bennett quarry (some zoned muscovite-lepidolite) **25:182**
Black Mountain, Oxford County (masses with rubellite) **16:378**
Mt. Marie, Oxford County **16:(374)**
Mt. Mica: **16:372n**; after 25 x 25 cm elbaite **16:385**
Pulsifer quarry, Androscoggin County: **16:375n**; crystals, muscovite oriented on **8:74**; red **8:76**

New Mexico

Harding mine (huge masses; plates to 2 cm) **8:120**

“LEPIDOMELANE”

See Biotite

“LESSINGITE”

See Britholite

LETOVICITE

United States

California
Geysers, The, Sonoma County (minute crystals) **24:350p,h,q**

LEUCITE

Brazil

Rio de Janeiro
Rio das Ostras (“pseudoleucite” after) **20:439–440p,m**

Germany

Rheinland-Pfalz
Laacher See area, Eifel district **8:322d**

“LEUCOCHALCITE”

See Olivinite

LEUCOPHANITE

Canada

Québec
Mt. St-Hilaire: **10:104**; micro pseudo-cubic, flakes, rosettes **21:318–319p, 21:320p**; twinned, to 1 cm **13:245p**

LEUCOPHOENICITE

South Africa

Cape Province
Avontuur and Leinster basins **22:288n**
Hotazel (massive) **8:390n**
N’Chwaning mine: id as caryopile **24:393n**; 3 mm crystals **23:436n**
Wessels mine **22:288**

LEUCOPHOSPHITE

In pegmatite environments **4:114–115**
Numerous world localities **4:119**

Australia

Western Australia
Ninghanboun Hills **9:(113)**

United States

Alabama
Williams pegmatites, Coosa County (powder) **6:72**
Arizona
7 U 7 ranch, Yavapai County **15:305n**
Indiana
Bethel Church fossil dig, Pike County **15:355–356p**
South Dakota
Tip Top and White Elephant mines, Custer County: **4:115**; crystals to 1 cm **17:243–244d,c,p**
Utah
Green River formation (euhedral non-igneous) **8:368–371p**

LEUCOSPHEINITE

Canada

Québec
Mt. St-Hilaire: **10:105, 13:242p**; crystals to 25 mm **21:319d, 21:320p**

Greenland

Narsarsuk pegmatite (crystals to 5 mm) **24:G45h,d,c**

United States

Arizona
Silver Bell mine, Pima County **11:261n**

“LEUCOXENE”

General term for alteration products of ilmenite

Australia

Western Australia
Greenbushes tinfield **9:(83)**

GENERAL INDEX

LEVYNE (LEVYNITE)

Australia

- Victoria
 - Flinders area sea cliffs (levyne-offretite) **12**:(108), **19**:455
 - Phillip Island localities **19**:455c,p,q

Denmark

- Færoe Islands (unspecified localities) **12**:(18)
- Nesvik, Færoe Islands (3 cm penetration twin) **12**:18p,d

Iceland

- Five localities (thin tabular twinned) **12**:18p

Ireland

- Parkgate quarry, County Antrim (micro; often coated with erionite) **10**:174, **10**:175p

United States

- Idaho
 - Lucky Peak Dam site **23**:(424)
- Oregon
 - Beech Creek, Grant County (offretite on) **6**:171–173p
 - Mt. Vernon, Grant County **16**:149p

“LEWISTONITE”

See Carbonate-fluorapatite

LIANDRATITE

Madagascar

- Antsakoa I pegmatite, near Berere (announced) **10**:52h,q

LIBETHENITE

Australia

- New South Wales
 - West Bogan mine, near Tottenham **12**:110n
- South Australia
 - Burra Burra mine: **15**:106–107p; azurite, chrysocolla, malachite after **15**:107p; azurite, pseudomalachite after some **12**:107; pseudo-octahedral to 8 mm, pseudomorphs after **25**:127–128c
- Western Australia
 - Ashburton Downs (minute pseudo-octahedral) **24**:208p, **24**:213

Chile

- Chuquicamata **9**:330d,c
- Mercedes mine, Coquimba (5 mm crystals) **23**:433n

Portugal

- Estremoz, Alto Alentejo (micro) **22**:225

United States

- Arizona
 - Ray mine (micro crystals) **14**:320
 - Silver Bell mine, Pima County **11**:261n, **11**:262p
 - Silver Hill mine, Pima County **11**:(261)
- Nevada
 - Snowstorm mine, Lander County (micro; some litidionite after) **21**:484n
- New Mexico
 - Mex-Tex mine, Socorro County **23**:(425)

Zambia

- Broken Hill: **12**:(394); zincian **11**:346–347h
- Rokana mine (equant crystals to 3 cm; bladed groups) **9**:341–346p,d,c

LIBYA

- Marada area **14**:388s
- Sebha (near) **18**:159s

LIDDICOATITE

See also Tourmaline Group

Madagascar

- Anjanabonoina mine **16**:(349d), **20**:197–200d,h,c,p, **23**:85, **24**:50p
- Antsirabe (announced) **9**:115h,q,p
- Localities not specified: crystals to 6 cm, polished slabs **9**:367; polished slabs to 15 cm **11**:29

LIKASITE

United States

- Colorado
 - Pitkin County (tentative id) **13**:233–234

LILLIANITE

United States

- Colorado
 - Lilian mine, Leadville district **16**:180h
 - Sultan mine, San Juan County **10**:358n, **16**:(180)

LIME

United States

- Arizona
 - Campbell shaft, Bisbee district (post-fire) **12**:307

“LIMONITE”

Mixture of hydrous iron oxides, primarily goethite

Australia

- South Australia
 - Burra Burra mine (after pyrite, azurite, malachite) **15**:220–221

United States

- Arizona
 - 79 mine (“fluffy limonite” gossan) **3**:250
- California
 - Custer mine, Inyo County (after pyrite) **15**:15p,n
 - Defiance mine, Inyo County (after pyrite) **15**:15n
- Nevada
 - Julie claim, Mineral County (after pyrite) **16**:78

LINARITE

Australia

- New South Wales
 - Broken Hill **7**:31
- Western Australia
 - Ashburton Downs (minute crystals) **24**:213p

Bolivia

- El Dragón mine, Potosí (micro laths) **21**:143

Canada

- British Columbia
 - Beaver Group, Kaslo-New Denver area (crystals to 12 mm) **2**:209
 - Betty group, Betty Glacier, north of Divide Lake **15**:(91)

England

- Derby
 - Masson Cavern, Matlock Bath **14**:(23)
 - Rutland Cavern, Matlock Bath **14**:(23)
 - Snelston **14**:(23)
- Shropshire
 - Ladywell mine, Shelve **13**:167

- Stafford
 - Bag mine, Ecton Hill **14**:22–23p

Germany

- Rheinland-Pfalz
 - Ems district **15**:342n
- Siegerland
 - Viktoria mine, Littfeld (1 mm crystal) **8**:307p

Greece

- Kamaréza mine, Laurium (blades) **25**:279

Japan

- Kisamori mine, Akita (crystals to 2 cm) **6**:210c

Namibia

- Tsumeb (micro crystals) **8**:T27, **8**:T84p

New Zealand

- Tui mine **6**:30n

Scotland

- Strathclyde
 - Leadhills **12**:247d
 - Susanna mine, Leadhills **12**:247d, **12**:248p
- Strathclyde/Dumfries and Galloway

- Leadhills-Wanlockhead district **12**:242, **12**:246p,d

Spain

- Horcajo mines, Ciudad Real (micro crystals) **25**:25
- Sierra de Prades, Tarragona **25**:(222)

United States

- Arizona
 - Cole shaft, Bisbee district (5 mm spots resembling azurite) **12**:307
 - Grand Reef mine, Graham County (crystals to 5 cm) **11**:221p, **11**:222
 - Mammoth mine, Pinal County (crystals to 8 cm) **11**:166p, **11**:174–175d
 - Rowley mine, Maricopa County (crystalline masses) **5**:18

California

- Blue Bell mine, San Bernardino County (crystals to 3 cm) **8**:494p, **8**:496
- Defiance mine, Inyo County **15**:15n
- Essex mine, Inyo County **15**:15p,n

Colorado

- Humbolt mine, Boulder County **11**:(36)
- Six localities (coatings, minute crystals) **11**:38

Idaho

- Bunker Hill mine (minute euhedral) **12**:345

Massachusetts

- Loudville mine, Hampshire County: **6**:297n; micro **13**:46p

New Mexico

- Blanchard mines: crystals to 2.5 cm **20**:42, **20**:43p; prismatic to 2.5 cm **11**:190p, **11**:192
- Stephenson-Bennett mine, Dona Ana County **4**:33n

Wales

- Dyfed
 - Nantycagel (Eaglebrook) mine (2 mm blades) **13**:168, **13**:169p
- Powys
 - Old Workings, Dylife mine (micro) **21**:492n

LINDGRENITE

Chile

- Chuquicamata mine, Antofagasto **9**:329p, **9**:330d,c, **15**:356

LINDSTRÖMITE

Canada

- Ontario
 - Silver Miller mine, Cobalt **9**:(114)

United States

- Nevada
 - Outlaw mine, Nye County **22**:178n

LINNAEITE

- Vs. siegenite **4**:137

Bolivia

- Lequepalca district, Oruro Dept. **6**:132

Canada

- Northwest Territories
 - Nanisivik mine (uncertain linnaeite-group mineral) **21**:533–534q,p

Germany

- Rheinland-Pfalz
 - Friedrichslegen mine **15**:(342)
- Siegerland
 - Müsen **19**:(121)

Namibia

- Tsumeb (grains) **8**:T27n

United States

- Pennsylvania
 - Phoenixville **23**:417n

LINTISITE

Canada

- Québec
 - Poudrette quarry (UK #74 id as) **22**:386n

GENERAL INDEX

LIOTTITE

Italy

Latera caldera, Pitigliano, Tuscany (announced; crystals to 1 cm) **9:254h,c,q**

LIPSCOMBITE

United States

Alabama
Williams pegmatites, Coosa County (massive) **6:69–72**

LISETITE

Norway

Liset, Selde **22:(391)**

LISKEARDITE

England

Cornwall
Locality not specified **8:(391)**
Saint Hilary **9:(114)**

LITHARGE

Greece

Megala Pifka and Soureza, Laurium (crusts) **25:279**

Sweden

Långban: **8:(517)**; poss. post-mining **10:215**

United States

Arizona
Cole shaft, Bisbee district (unconfirmed) **12:(315)**

LITHIOPHILITE

In pegmatite environments **4:108–109**
Numerous world occurrences **4:108–109, 4:117**

United States

Maine
Bennett quarry (massive) **25:183**
Havey quarry, Androscoggin County **16:375**
Newry area **6:201**
Pulsifer quarry, Androscoggin County **16:(375)**
New Mexico
Harding mine (masses to 5 cm) **8:124**
North Carolina
Foote mine (micro crystals, twins) **8:95–97c,q,d,p**

LITHIOPHORITE

South Africa

Cape Province
Kalahari manganese field **9:151**

United States

California
Sausalito (south of), Marin County (botryoidal) **2:166–168q**

LITHIOPHOSPHATE

Canada

Manitoba
Bernic Lake **4:(120)**

Russia (formerly USSR)

Kola Peninsula (locality not specified) (massive) **4:126**

United States

North Carolina
Foote mine: **1:(92)**; crystals to 2.5 cm **4:126**
South Dakota
Tip Top mine **17:243**

LITIDIONITE

United States

Nevada
Pyro pit, Lander County (after libethenite) **21:484n**

LIUJINYINITE

Poss. identical with uyttenbogaardite **13:392q, 13:393h**
Three Chinese localities listed **13:393n**

LIZARDITE

Canada

Québec
Marbridge #1 mine, Malartic district **7:177–178**
Mt. St-Hilaire (lizardite-1M; 1 mm crystals) **21:319**

LOCALITY INDEXES

California **20:129–142**
Colorado **10:323–328**

LOELLINGITE

See Löllingite

LOKKAITE-(Y)

Canada

Québec
Evans-Lou pegmatite **3:72, 3:73p**

LÖLLINGITE

Brazil

Minas Gerais
Énio pegmatite, near Galiléia (dendritic) **12:69n**
Jove Lauriano mine, near Linópolis (grains) **14:235**
São Paulo
Furnas mine (micro crystals) **6:285**

Canada

Québec
Mt. St-Hilaire (minute grains; plates to 15 mm) **21:319**

United States

Maine
Mt. Mica (massive) **16:372n**
New Jersey
Sterling Hill mine (in genesis of arsenate species) **13:35–38**
New Mexico
Harding mine (masses to 2 cm) **8:124**

LOMONOSOVITE

Greenland

Kvanefjeld drift, Ilímaussaq complex **24:G27n**

LOPARITE-(Ce)

Canada

Québec
Poudrette quarry (1.5 mm crystals) **22:386n**

Russia (formerly USSR)

Khibiny Massif, Kola Peninsula: **23:430p**; penetrating twins **23:280**
Mt. Karnasurt, Kola Peninsula **23:(433)**

LOPEZITE

Toxicity **11:6**

LORANDITE

Macedonia (formerly Yugoslavia)

Allchar: **8:(390)**; crystals to 5 cm **24:441–442p,c**; sought for LOREX solar neutrino study **24:437**

LORENZENITE

Canada

Québec
Mt. St-Hilaire: acicular, sword-shaped **21:319, 21:320p**; “ramsayite” **13:(242)**; resembles ashcroftine **21:297**

Norway

Oslo region (“ramsayite”) **3:10p**

Russia (formerly USSR)

Lovozero, Kola Peninsula **21:173n**

United States

New Mexico
Point of Rocks quarry, Colfax County **15:152**

LOST MINES

Lost mines of Arizona (includes table of references for 140 named lost mines) **14:269–281**

LOTHARMEYERITE

Mexico

Durango
Ojuela mine: **15:223–225p,c,q**; newly described **14:35–36p,q,c,h**

LOUGHLINITE

United States

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

LOUISIANA

Bibliography of locality literature **18:217**
Bibliography of mineralogy literature **10:19**
Locality not specified **2:260s**
Toledo Bend Reservoir (near), Sabine Parish **21:483s**

LOVOZEROITE

Canada

Québec
Mt. St-Hilaire (crystals, twins to 3 mm; some terskite after) **21:319–320p**

LUDLAMITE

In pegmatite environments **4:122–123**
Numerous world localities **4:120**

Bolivia

Morococala mine, Dalence province (2.5 cm euhedral) **25:382**

Brazil

Minas Gerais
Énio pegmatite, near Galiléia (crystals to 1 cm) **12:70–71p**
Galiléia (near): crystals to 5 mm **9:41p**; crystals to 2 cm **9:316**

Canada

Yukon
Rapid Creek area (cleavages; euhedral to 1 cm) **23:Y27–29p,d,c,q**

England

Cornwall
Wheal Jane, Kea (crystals to 3 cm) **25:44, 25:45p**

Mexico

Chihuahua
San Antonio mine, Santa Eulalia district: crystals to 9 cm **14:170–171p**; sprays to 5 cm **23:276**

Spain

Brunita mine, Murcia (micro crystals) **25:222n**

United States

Maine
Bell pit, Oxford County **6:202n**
New Hampshire
Palermo mine **4:123, 5:278n**
South Dakota
Dan Patch mine, Pennington County **4:123**
Tip Top mine **17:244**

LUDLOCKITE

Namibia

Tsumeb: acicular to 3 cm **8:T27n, 8:T49, 8:T75p**; newly described **8:T91–94h,q,d,c,p**

LUDWIGITE

Canada

Ontario
York River tactite zone near Bancroft (2 mm prismatic) **13:227**

United States

California
Jensen quarry, Riverside County **15:288n**

GENERAL INDEX

LUESHITE

Canada

Québec

Mt. St-Hilaire (minute crystals) **21**:321

Zaire

Lueshe mine **8**:(517)

LUETHEITE

Australia

Western Australia

Bali Lo prospect, Ashburton Downs (powder) **24**:213

United States

Arizona

Patagonia, Santa Cruz County **9**:(113)

Unspecified prospect, Santa Cruz County
(announced) **9**:40h,c,q

Nevada

Majuba Hill mine (coatings) **24**:174–175

LUSUNGITE

Australia

Western Australia

Coppin Pool **23**:(432)

LUZONITE

Chile

Chuquicamata (poss. famatinite) **9**:(323)

Namibia

Tsumeb (massive) **8**:T27n

Peru

Julcani district (in polished sections) **5**:218

United States

Arizona

Junction shaft, Bisbee (massive) **24**:432n

“LYNDOCHITE”

See Aeschyrite; Euxenite

GENERAL INDEX

MACDONALDITE

United States

California
Fresno County **9**:(113)
Rush Creek, Fresno **9**:(114)

MACEDONIA

Formerly Yugoslavia

Allchar, near Majdan **1**:136s, **8**:390s, **9**:113s,
24:236s, **24**:437–449h,g,m,p

MACFALLITE

United States

Michigan
Copper Harbor (near), Keweenaw County
8:(517)
Manganese Lake (near), Keweenaw County
(announced; fibrous to 1 cm) **11**:111h,q
Manganese mine, Keweenaw County (radial
sprays) **23**:M63p, **23**:M66
White Pine mine, Ontonagon County (traces)
23:M66

MACHATSCHKIITE

Germany

Baden-Württemberg
Anton mine, Schwarzwald (announced; crusts)
9:115

MACKAYITE

Mexico

Sonora
San Miguel prospect mine (1 mm drusy)
1:41

United States

Nevada
Goldfield, Esmeralda County (2 localities)
16:48h

MACKINAWITE

Australia

Queensland
Mt. Isa mine **19**:481

Finland

Hitura **9**:(113)
Outokumpu mine **9**:(113)

MACQUARTITE

United States

Arizona
Mammoth mine, Pinal County (micro pris-
matic) **11**:169

MADAGASCAR

Malagasy Republic

Ambatofinandrahana **25**:60s
Ambatofotsikely **5**:4s
Androy **24**:50s, **24**:230s
Anjanabonoina **15**:118s, **17**:145s, **19**:116s, **20**:191–
200p,m,h,g, **24**:50s
Antsakoa I pegmatite, near Berere **10**:52s
Antsirabe **9**:115s
Betafo **10**:155s
Ibity Mountain (Mt. Bity?), Antsirabe **19**:337s
Itrongay, Tulear **21**:257s
Localities not specified **9**:367, **18**:162s
Sahanivotry, Sahatany Valley **24**:223s
Sakoany mine, Majunga **18**:244s, **19**:337s
Tambobolehibé **22**:390s
Tranomaro **19**:337s

MADOCITE

Canada

Ontario
Madoc (near) **13**:94, **13**:95p,q
Taylor farm, near Madoc **13**:(80)

MAGADIITE

Canada

Québec
Mt. St-Hilaire: **18**:364n; powdery **21**:321

MAGHAGENDORFITE

United States

South Dakota
Dyke lode, Pennington County **17**:298

MAGHEMITE

Italy

Tuscany
Upper Valdarno (massive) **25**:298n

Namibia

Tsumeb **13**:142c

MAGNESIO-ARFVEDSONITE

Canada

Québec
Mt. St-Hilaire (prismatic to 9 cm) **21**:321

South Africa

Cape Province
Wessels mine (in thin sections) **22**:288,
22:296q

United States

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

MAGNESIO-AXINITE

See also Axinite Group

Axinite group nomenclature **11**:13–15

Australia

New South Wales
London Bridge, near Queanbean **11**:(13)

United States

Nevada
Luning, Mineral County (crystals to 1 cm)
11:13–14q

MAGNESIOCHROMITE

United States

Maryland
Etchison mine (Mg-rich, Cr-poor) **12**:153n
Pennsylvania/Maryland
Line pit, State Line district (massive; micro
crystals) **12**:153

MAGNESIOFERRITE

Germany

Baden-Württemberg
Kaiserstuhl **17**:(136)

MAGNESIOHORNBLLENDE

See also Hornblende

Canada

Québec
Mt. St-Hilaire (1 cm phenocrysts) **24**:388n

United States

New Mexico
San Marcial quarry, Socorro County **20**:61

MAGNESITE

Australia

Queensland
Mt. Isa mine (massive) **19**:482
Western Australia
132 North deposit, Widgiemooltha district
(massive; some nickeliferous) **25**:290

Austria

Oberdorf an der Laming mine, Styria **17**:110n

Brazil

Bahia
Brumado: **23**:276n; complex fluid inclusions
in **10**:55p; crystals to 3 cm **25**:212p,
25:215; crystals to 30 cm **9**:200p, **9**:201–
202
Pomba pit, Brumado **20**:(394)

Canada

Québec
Mt. St-Hilaire: **18**:364n; rhombs to 2 mm
21:321

Chile

Chuquicamata **9**:(324)

Czech Republic (formerly Czechoslovakia)

Podrečany **20**:299

France

Mine de la Mur, Isère (ferroan, “mesitite”; 2.5
cm discoidal) **8**:404

Italy

Lombardy
Dosso dei Cristalli, Val Malenco (brown
prismatic to 1 cm) **3**:123

Spain

Eugui quarries, Navarra (lenticular to 5 cm)
22:141p

United States

Arizona
Sacramento stock (near), Bisbee district
12:307

California

Jensen quarry, Riverside County (chalky
masses) **15**:280

Connecticut

Becker quarry, Tolland County (1 cm rhombs)
25:377n

Pennsylvania/Maryland

Line pit, State Line district (some crystals)
12:154

MAGNESIUM-CHLOROPHOENICITE

United States

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

MAGNETIC MINERALS

Microminerals column feature **17**:135–140

MAGNETITE

Bacteria containing magnetite “compasses” **11**:54

Cubic (3 localities) **4**:236, **10**:43

Flattened twin **14**:365d

Toxicity **11**:9

Argentina

Volcán Payun Matru, Mendoza province (hem-
atite after large skeletal octahedra) **22**:387n

Australia

Queensland
Mt. Isa mine **19**:48

South Australia

Moonta mines **19**:(412)
Walleroo mines **19**:(413)

Austria

Totenkopf, Salzburg **17**:(107)

Bolivia

El Dragón mine, Potosí (grains) **21**:139n

Brazil

Bahia

Boquirá mine, near Oliveira do Brejinho
(micro octahedra) **6**:285
Pedra do Ferro prospect, Brumado district
(crystals to 3 cm) **9**:201

Minas Gerais

Fazenda Guariba **17**:192n
Itabira **17**:339n

Jaguaráçu pegmatite (crystals to 10 cm; inter-
grown with hematite, rutile, euxenite)
25:169

Ouro Preto region **20**:228p

Paraíba

Alto Benedito pegmatite (rounded, to 1 cm)
22:185n

São Paulo

Jacupiranga mine (crystals to 5 cm; some
polysynthetic twins) **15**:265p, **15**:269

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- British Columbia
Ice River complex (2 mm octahedral) **12:224**
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Port Radium **20:(207)**
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Digby Neck (hematite after, "martite") **1:(84)**
- Ontario
Craigmont corundum mine, Renfrew County **13:(202)**
Davis Hill (grains) **21:244**
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- Québec
Marbridge #1 mine, Malartic district (after chrysotile) **7:178p**
Orford mine (micro crystals) **25:340**
Shawville (near) **17:136p**
Sherbrooke **20:219**

Chile

- Chuquicamata (after hematite) **9:324**

England

- Cornwall
Botallack district **24:281n**

France

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

Germany

- Rheinland-Pfalz
Laacher See area, Eifel district **8:317d, 10:91p**

Greenland

- Frederiskshåb (Paamiut) (near) (euhedral to 3 mm) **24:G15**
Gardiner complex: modified octahedral to 20 cm **24:G54–56p,d,c**; odd morphology **16:488–489c,p,d**
Narsarsuk (dodecahedral to 2 cm) **5:122**
Sarfartôq complex (massive; euhedral to 3 cm) **24:G49**

Italy

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Baveno area (massive) **14:164**
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- Sicily
Lachea, Cyclopean Islands **17:205n**
- Tuscany
Boccheggiano and Niccioleta mines (massive, granular) **10:286**
Buca della Vena mine **17:265, 17:266p**

Kazakhstan (formerly USSR)

- Rudni, Kusteni Oblast (1 cm octahedral) **25:61**

Madagascar

- Anjanabonoina **20:197d**

Namibia

- Tsumeb (some "martite," hematite after) **8:T26n, 8:T27n**

Norway

- Kongsberg **17:(35)**

Russia (formerly USSR)

- Kashkanar, Chelyabinsk Oblast (2.5 cm octahedral) **24:389n**

South Africa

- Cape Province
Kalahari manganese field (grains) **9:151**
- Transvaal
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Palabora Open Pit **19:203p**

Spain

- Cala mine, Huelva **20:145**

Switzerland

- Lercheltini **19:(16p)**

United States

- Arizona
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Magma mine, Pinal County **14:(82)**
New Cornelia mine, Pima County (massive; micro crystals) **14:296**
Tucson Mountains, Pima County (dodecahedral) **11:265n**
- California
Benitoite Gem mine area, San Benito County **8:432n**
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- Michigan
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- Montana
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- Nevada
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- New Mexico
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- Pennsylvania
French Creek mine (octahedral to 2 cm; dodecahedral; after micaceous hematite) **25:115**
Grace mine, Berks County (dodecahedral to 2.5 cm) **12:183n**
- Pennsylvania/Maryland
Line pit, State Line chromite district (grains) **12:155**
- Texas
Clear Creek pegmatite, Burnet County (massive) **8:89**

MAGNETOPLUMBITE

Sweden

- Långban (doubly terminated crystals) **10:215**

MAGNUSSONITE

United States

- New Jersey
Sterling Hill mine **13:(37), 19:274n**

MAINE

- A. C. Perham quarry, West Paris, Oxford County **16:384s**
Amethyst localities **21:209**
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Bell Pit, Hall's Ridge, Newry, Oxford County **1:91s, 1:114s, 6:189–204m,p,h,g, 22:382s**
Bemis Stream prospect, D Township **22:382**

- Bennett quarry, near Buckfield, Oxford County **18:360h, 22:382s,h, 24:382s, 25:175–184h,m,p,g, 25:377s, 25:380s**
- Berry (Berry-Havey) quarry, Poland (see Havey quarry)
- Bibliography of locality literature **18:217**
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- Black Hawk mine, near Blue Hill, Hancock County **22:382s**
- Black Mountain, near Rumford, Oxford County **14:367s, 16:366m, 16:378, 16:384, 18:360h,s, 22:382s**
- Bowdoinham, Sagadahoc County **19:151s**
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- Buckfield, Oxford County **4:126s**
- Bumpus quarry, Albany **16:384s**
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 Messina mine **22:197n**

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Upper Burma (locality not specified) **16**:148s

GENERAL INDEX

NACARENIOSITE-(Ce)

Greenland

Kvanefjeld drift, Ilímaussaq complex **24**:G27n

NACRITE

Brazil

Minas Gerais

Morro do Caxambu mine, Ouro Preto region (after topaz) **20**:232

France

Lodeve, Haute Vienne (Lodève, Herault?) **20**:395

NADORITE

Morocco

Touissit mine **19**:210n, **19**:212p

England

Cornwall

Port Quin (1 mm rosettes) **21**:492n

NAGYAGITE

Locality not specified **13**:392q

Ten world localities listed **13**:(394)

Australia

Western Australia

Kalgoorlie **18**:(28)

Romania

Western Transylvania gold district

Săcărâmb (formerly Nagyág) **13**:(374), **13**:394–395p,d, **21**:88–89p

NAHCOLITE

United States

California

Searles Lake (crystals, complex twins to 20 mm) **6**:77–78c,d

Colorado, Utah

Green River formation **8**:368–371

NAHPOITE

Canada

Québec

Mt. St-Hilaire (powdery) **21**:324

Yukon

Big Fish River (powdery) **23**:Y38

NAKAURIITE

Japan

Nakauri-shi, Aichi-ken **8**:(517), **9**:(113)

United States

Nevada

Basic Refractories mine, Nye County (“cuprohydromagnesite,” “cuproartinite” id as) **16**:45

NALIPOITE

Canada

Québec

Poudrette quarry (formerly UK#63) **22**:386n

NAMBULITE

Japan

Gozaisho mine, Fukushima-ken **8**:(517)

Namibia

Kombat mine (6 cm crystal) **22**:423p

Locality not specified (gemmy to 3 cm) **8**:390

NAMIBIA

Formerly Southwest Africa

Abenab mine **5**:260s, **5**:263s

Arandis, near Swakopmund **6**:250–251s, **9**:113s, **18**:190s

Berg Aukas **22**:217s

Brandberg **24**:235s

Brukoros Mountains **18**:367s

Chouti mine (see Tschudi mine)

Copper Valley, near Brandberg **25**:50s

Damaraland **21**:490s

Davib-east farm near Karibib **2**:129g

Emke mine, Onganja **21**:174–175s

Erongo Mts **19**:337s

Gamsberg **25**:219s

Gobabor Mountains **24**:313s

Gordon, Samuel G., expeditions (1929) **5**:259–264

Grootfontein **5**:263h, **10**:42s

Kaokoveld **19**:116s

Keetmanshoop **21**:490s

Klein Spitzkopje, near Rössing, Swakopmund **2**:128, **18**:193s

Kombat mine, Otavi: **15**:167s, **18**:245s, **18**:367s, **20**:161h, **20**:397s, **22**:421–424g,h; list of species **22**:424–425

Messum **18**:192s

Okarushe **9**:40

Okarushe mine **15**:313s, **20**:69n, **20**:396s, **24**:237s

Onganja mine, near Seeis **5**:78h,s, **5**:235, **18**:159s, **18**:193s, **18**:408s

Orongo **9**:40

Otjua mine, near Karibib **23**:277s, **23**:435s, **24**:51–52s, **25**:60s

Pforte **9**:40

Rehoboth (near) **18**:367s, **19**:337s

Rosh Pina mine **20**:397s, **22**:391s

Rössing uranium mine, Rössing **19**:202–203s, **24**:393s

Sandamab **16**:463–464s

Swakopmund **6**:38s, **8**:59s, **8**:391s, **18**:191s

Tschudi mine, northwest of Tsumeb: **23**:435s, **23**:438h; name **24**:56

Tsumeb: **2**:128s, **3**:187s, **3**:200s, **4**:26–27s, **5**:259–262h, **6**:251s, **8**:T6–13h,m,p, **8**:T14–16g,p, **8**:T38–47g, **9**:43–45, **9**:114s, **10**:113–118, **10**:248s, **10**:390s, **12**:45s, **12**:181s, **12**:182s, **13**:127s, **13**:131–136s, **13**:137–147g, **13**:149–150s, **13**:155–157s, **14**:374s, **15**:112s, **15**:168s, **16**:149s, **17**:340s, **17**:392s, **18**:190–191s, **18**:245s, **18**:334–335s, **18**:367s, **18**:407–409s, **19**:117s, **19**:211s, **19**:272s, **20**:66s, **20**:155s, **20**:397s, **21**:97s, **21**:260s, **21**:490s, **22**:53s, **22**:391s, **23**:278, **23**:435s, **23**:438h, **24**:233s, **24**:235h, **25**:218s; “best of Tsumeb” **8**:T48–50; political situation **7**:186h; review of species literature **8**:T101–110; special issue **8**:#3; theme of 1992 Munich show **24**:231; 30th, 37th levels **20**:337s; upper level pillars mined **17**:150s

Tsumeb, a Historical Sketch **5**:91–93b

Tsumeb, eine deutsches-afrikanische Geschichte **23**:412b

Tsumeb Notes **8**:110, **9**:43–45, **10**:113–118

Usakos (near) **22**:391s

Windhoek (quarry near) **24**:235s

NAMIBITE

Australia

South Australia

Iron Monarch mine, Iron Knob **23**:432n

Canada

Québec

Evans Lou pegmatite **17**:(340)

NAMUWITE

Germany

Rheinland-Pfalz

Friedrichslegen mine, Ems district **15**:338

Greece

Kamaréza mine, Laurium **25**:280

Italy

Vicenza

Trentini mine **20**:152

Wales

North Wales

Aberllyn mine **16**:338h

NANTOKITE

United States

Arizona

Southwest mine, Bisbee (crystals to 6 mm) **24**:430p, **24**:432

Michigan

Algoma mine, Ontonagon County **23**:M67n

NARSARSUKITE

Canada

Québec

Mt. St-Hilaire: **10**:105, **10**:106p, **10**:107p; some gemmy; some with green edges **13**:243p; tabular to 3 cm **21**:324p,c, **21**:325d

Poudrette quarry **18**:363n

Greenland

Igdlutalik island, Ilímaussaq complex (prismatic to 1 cm) **24**:G27–28h,c

Narsárssuk pegmatite **5**:122n, **24**:G43p, **24**:G44d,c

NASONITE

United States

California

Crestmore quarry, Riverside County **10**:41

New Jersey

Franklin mine (micro prismatic) **22**:273–274p

NATANITE

Compared with jeanbandyite **13**:237–238q

Bolivia

Llallagua, Potosí **13**:235q

Canada

New Brunswick

Mt. Pleasant, Charlotte County (and/or jeanbandyite) **18**:362

Kyrgyzstan (formerly USSR)

Tien-Shan region **13**:237–238q

Mexico

Chihuahua

El Potosi mine, Santa Eulalia district: crystals to 2 mm **23**:435n; tentative id **18**:367n

Santa Eulalia district (micro crystals) **13**:238q

NATRITE

Canada

Québec

Mt. St-Hilaire (grains) **21**:325

Poudrette quarry **21**:(486)

NATROALUNITE

Chile

Chuquicamata (some jarosite after) **9**:328

United States

Arizona

Tombstone district, Cochise County **11**:255n

California

Champion mine, Mono County (strontian; crystals) **8**:480

Colorado

National Belle mine, Ouray County **17**:235

NATROCHALCITE

Chile

Chuquicamata **8**:(390), **9**:327p, **9**:329d,c

NATROJAROSITE

Australia

New South Wales

Kintore opencut, Broken Hill **19**:431

Western Australia

Coolgardie **9**:(113)

Milgun Station **12**:(110)

Canada

Yukon

Rapid Creek area (earthy, subhedral) **23**:Y38

Chile

Chuquicamata **9**:328–329

Greece

Kamaréza mine, Laurium (granular masses) **7**:123n

Laurium **9**:(113)

GENERAL INDEX

NATROLITE

Australia

New South Wales
 Ardglen quarry **19**:400–401p,c,d
 Emu quarry, Prospect Hill (acicular to 2 cm) **25**:191
 Garrawilla area **19**:395
 Willy Wally Gully **19**:402
 Victoria
 Flinders area **12**:(108), **19**:455p, **19**:458–459p
 Kitty Miller Bay, Flinders area (“hairy” habit) **12**:108p
 Phillip Island **19**:455, **19**:458p
 Simmons Bay, Flinders: curved “arch” aggregates **17**:377–379p,c; poss. epitaxial on thomsonite **17**:269, **17**:270p
 Sunderland Bluff, Phillip Island **19**:457q, **19**:458p

Brazil

São Paulo
 Jacupiranga mine **15**:268p, **15**:269

Canada

British Columbia
 Ice River complex (to 16 cm, complex terminations) **12**:225–226q,c,p,d
 Monte Creek, Kamloops district **19**:333n
 Ontario
 Blue Mountain and Indusmin quarries, Peterborough County (prismatic) **13**:85
 Davis Hill (criss-crossed prismatic) **21**:244p,q
 Princess mine, near Bancroft: **13**:227; massive **13**:85n; reddish radial **13**:198c, **13**:203
 Québec
 B.C. mine **21**:(393)
 Beaver mine **21**:(393)
 Mt. St-Hilaire: most is probably tetranatrolite **13**:242; on aegirine needle **13**:247p; prismatic to 15 cm **21**:325d

Germany

Rheinland-Pfalz
 Zilsdorf quarry, Eifel **18**:356n

Greenland

Gardiner complex (massive) **24**:G56n
 Narssárssuk pegmatite (crystals to 14 cm) **5**:122

Iceland

Brynjudalsvogur **12**:(21)

Ireland

Locality not specified (micro acicular) **10**:174

Italy

Lombardy
 Pizzo Ventina, summit of Monte Disgrazia **10**:87n

Norway

Kongsberg **17**:(35)
 Oslofjord/Langesundsfjord region **22**:52n

Russia (formerly USSR)

Khibiny Massif, Kola Peninsula (prismatic to 5 cm) **23**:280n

South Africa

Cape Province
 Wessels mine (prismatic to 5 cm; “afwillite” id as) **24**:366–367p
 Transvaal
 Palabora mine (prismatic to 2 cm) **22**:260

United States

Arizona
 Grand Reef mine, Graham County (1 cm crystal) **11**:223p, **11**:225
 Horseshoe Dam area, Maricopa County (hemispheres to 3 cm) **14**:115–117p
 Lowell shaft, Bisbee district (needles, being replaced by quartz) **12**:309
 Santa Maria River, Yavapai County **15**:113p
 California
 Benitoite Gem mine, San Benito County (massive crystalline) **8**:450–451

Tick Canyon, Los Angeles County **8**:433n
 Colorado
 Table Mountain, Jefferson County **19**:164q, **19**:171–172p,d
 Michigan
 Copper Falls mine, Keweenaw County: brick-red **23**:M67n; prismatic **14**:224p, **14**:225
 Keweenaw Peninsula (numerous localities) **23**:M67
 Mass mine, Ontonagon County (micro copper in) **24**:311n, **24**:312p
 Seneca #2 mine, Keweenaw County **23**:M67n
 New Jersey
 Bound Brook quarry, Somerset County (prismatic to 18 cm) **4**:55, **4**:77p
 Chimney Rock quarry, Somerset County (prismatic to 18 cm) **9**:28p, **9**:29
 Paterson area, Passaic County **9**:171, **9**:178p
 Route 80 roadcut, Passaic County (13 cm group) **1**:174
 New Mexico
 Point of Rocks quarry, Colfax County (short prisms) **15**:153p
 Wind Mountain, Otero County **20**:60n
 Oregon
 Eckman Creek quarry, Lincoln County (crystals to 3 cm) **1**:173, **1**:176p
 Pennsylvania
 French Creek mine (intergrown with mesolite; acicular) **25**:115
 Texas
 Fresno mine, Brewster County **21**:230n
 Washington
 Robertson quarry, Mason County **18**:361n

NATROMONTEBRASITE

In pegmatite environments **4**:110
Brazil
 Minas Gerais
 Presidente Bueno, Rio Doce valley **2**:(12)
Czech Republic (formerly Czechoslovakia)
 Jeclov **4**:110
United States
 Colorado
 Eight Mile Park, Fremont County **4**:110

NATRON

Canada
 Québec
 Mt. St-Hilaire: **18**:364n; masses to 4 cm **21**:325
England
 Cornwall
 Botallack district **24**:(281)

NATROPHILITE

In pegmatite environments **4**:112
United States
 Connecticut
 Branchville pegmatite, Litchfield County **4**:112

NATROPHOSPHATE

Canada
 Québec
 Mt. St-Hilaire (micro crystals) **21**:325

NATROSILITE

Canada
 Québec
 Mt. St-Hilaire (minute crystals) **24**:388n

NAUJAKASITE

Greenland
 Naujakasik, Ilímaussaq complex: **8**:(517); micaceous to 20 mm **24**:G23d,c,h, **24**:G24p

NAUMANNITE

Australia
 Queensland
 O’Brien’s Soak **19**:(474)

Canada

British Columbia
 Betty group, Betty Glacier, north of Divide Lake (black powdery) **15**:91

Norway

Kongsberg **17**:(35)

NEALITE

Greece

Laurium: **17**:184p, **17**:187; newly described **11**:299–301h,p,q

NEBRASKA

Bibliography of locality literature **18**:219
 Bibliography of mineralogy literature **10**:21
Minerals and Gemstones of Nebraska **3**:278b
 Old County mine, Wymore, Gage County **22**:64s

NEIGHBORITE

Canada

Québec
 Mt. St-Hilaire: **18**:364n; micro crystals **21**:325–326p,d

Norway

Gjerdingen, Nordmarka region (micro crystals) **11**:88p,c

United States

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

NEKOITE

United States

Arizona
 Iron Cap mine, Graham County **19**:(87)
 California
 Crestmore quarry, Riverside County **10**:41

NEKRASOVITE

United States

Arizona
 Campbell shaft, Bisbee (grains) **24**:432

NELTNERITE

United States

Arizona
 White Tailed Deer shaft (near), Bisbee (crystals) **24**:432

NENADKEVICHITE

Canada

Québec
 Mt. St-Hilaire: **10**:105, **13**:245, **13**:246p; after serandite; also prismatic to 8 mm **21**:326p,d,c, **21**:328p
 Poudrette quarry (red micro) **25**:210n

“NENADKEVITE”

Mixture

Locality not specified (discredited) **9**:116h

NEOTOCITE

Canada

Québec
 Mt. St-Hilaire (and hisingerite; massive) **21**:314

Japan

Noda-Tamagawa **18**:133

Sweden

Gestrikland
 Erik Ers mine **18**:133

United States

Arizona
 New Cornelia mine, Pima County (dendritic in fractures) **14**:296
 California
 Hale Creek mine, Trinity County **18**:347
 North Carolina
 Foote mine **18**:133–134q,p,c

GENERAL INDEX

- NEPAL**
 Chainpur **10**:123s
 Chokte **16**:417s
 Chumar mine, Ganesh, Himal **23**:435s
 Ganesh Range **17**:205s, **21**:490s
 Gujarkot, Bheri Zone, West Nepal **24**:230s, **25**:218s, **25**:380s
 Hyakule mine, Sankhuywa Sabha **16**:413–418m,p,g,h, **17**:207s, **24**:393s
 Manang district, Kali Gandaki Valley **21**:490s
 Phakuwa pegmatite **16**:414–418m,g,h, **17**:207s
 Sonquesawa mine, Bratnagar site **10**:123s
 Surkhet **16**:417s
 Taplejung (north of) **16**:417s
- NEPHELINE**
Canada
 British Columbia
 Ice River complex **12**:224
 Ontario
 Davis Hill, near Bancroft: **13**:77n; euhedral to 67 cm **21**:241p, **21**:244c,q
 Princess mine, near Bancroft (large euhedral *in situ*) **13**:202–203
 Québec
 Mt. St-Hilaire (prismatic to 3.5 cm) **21**:326–327d, **21**:328p
- Germany**
 Rheinland-Pfalz
 Laacher See area, Eifel district (various habits) **8**:322–323d,c
- Italy**
 Campania
 Vesuvius **1**:(86)
- Kenya**
 Athi River area **20**:396
- United States**
 New Mexico
 Point of Rocks quarry, Colfax County **15**:153p
 Wind Mountain, Otero County **20**:60n
- NEPOUITE**
Australia
 Western Australia
 132 North deposit, Widgiemooltha district (micro crystals) **25**:289p, **25**:290
- United States**
 California
 Kalkar quarry, Santa Cruz County (coatings) **17**:325
- NEPTUNITE**
Canada
 Québec
 Mt. St-Hilaire (zones in mangan-neptunite) **24**:388n
- Greenland**
 Igdlunguak **5**:124
 Narssárssuk pegmatite: **5**:122, **18**:(357); crystals to 5 cm **24**:G41–42h,p,d,c
- United States**
 California
 Benitoite Gem mine, San Benito County: **19**:325n, **25**:211; crystals to 7.5 cm **8**:447–451p,d,c
 New Mexico
 Point of Rocks quarry, Colfax County (2 mm euhedral crystals) **15**:153p, **15**:155p
- NESQUEHONITE**
Canada
 Yukon
 Rapid Creek area (fibrous to 8 mm) **23**:Y38
- France**
 Roc-Blanc, Cantal **9**:(113)
- NETHERLANDS**
 Ijssel River, Gelderland province **18**:432s
 Limburg province (southern) **18**:432s
 Winterswijk, Gelderland province **18**:432s
- NEVADA**
 Ala-Mar deposit, Sec. 34, T12N, R59E, Currant Creek, Nye County **16**:47–48s
 B & B mine, Esmeralda County **16**:55s
 Barite prospect, Sec. 12, T37N, R41E, near Golconda, Humboldt County **10**:219g, **16**:46s
 Basic Refractories mine, near Gabbs, Nye County **16**:45s
 Battle Mountain district, Lander County **18**:(84s), **23**:425s
 Belmont, Nye County **16**:44s, **16**:55s
 Betty Jo claim, southeast of Ely, White Pine County **5**:75s, **16**:47s
 Betty O'Neal mine, Lewis district, Lander County **22**:383s
 Bibliography of locality literature **18**:219–220
 Bibliography of mineralogy literature **10**:21–22
 Buena Vista Hills, Lovelock **8**:390s
 Carissa pit, Lander County **24**:48s, **24**:383s
 Carlin gold mine, Eureka County **9**:253s, **11**:111s, **16**:45–55s, **20**:469–471m,p,h,g
 Caroline tunnel, Ward district, White Pine County **16**:46s
 Chalk Mountain mine, east of Fallon, Churchill County **13**:219–221h,m,g, **21**:484s
 Coaldale, Esmeralda County **6**:79s
 Comstock lode, Virginia City, Storey County **16**:5–14h,g, **16**:55s, **18**:84s
 Copper King mine, Maggie Creek district, Eureka County **16**:46–47s
 Cordero mine, Opalite district, Humboldt County **8**:391s, **8**:517s, **16**:45s
 Dean mine, Battle Mountain, Lewis district, Lander County **20**:390s
 Dee mine, Elko County **19**:332s
 Diamond mine, southeast of Eureka **3**:275s
 Dover mine, near Hawthorne, Mineral County **16**:153s
 Downeyville mine, Nye County **22**:383s
 Eagle vein, Lewis district, Lander County **21**:484s
 Echo Bay's mine, Round Mountain **24**:48s
 Eureka (near), Eureka County **22**:383s
 Fortitude mine, near Battle Mountain, Lander/Humboldt counties **18**:360s, **21**:484s
 Gabbs, Nye County **12**:394h
 Gabbs Refractories mine, Gabbs, Nye County **16**:44s, **17**:127s
 Garnet Hill, west of Ely, White Pine County **18**:195–198g,m, **22**:383s
 Getchell mine, north of Golconda, Humboldt County **8**:390s, **16**:3m, **16**:15–23h,g,m,p, **16**:47s, **16**:501h, **19**:253–257
 Goldfield, Esmeralda County **6**:37s
 Gold Hill (see also Western U.S. mine)
 Grand Deposit mine, White Pine County **24**:383s
 Green prospect, Mopung Hills, Churchill County **16**:73–74
 Hallelujah Junction, Petersen Range, California-Nevada border **24**:227s
 Hall mine, Nye County **24**:222s, **25**:211s
 Hawthorne (near), Mineral County **13**:39–40, **14**:330s
 Humboldt County **9**:113s
 Julie claim, Pamlico district, near Hawthorne, Mineral County **16**:75–76h,g,m
 Key West mine, Clark County **22**:383s
 Killie mine, Spruce Mountain district, Elko County **18**:413–420p,m,g,h
 Lake Tahoe, Washoe County **19**:332s
 Lander County rhyolite **23**:491g
 Latham mine, Spruce Mountain district (see Killie mine)
 Liberty mine, near Tonopah, Nye County **15**:313s, **17**:272s
 Little Gem mine, near Tenabo, Bullion district, Lander County **22**:383
 Localities mentioned in vols. 1–14 **16**:4
 Lovelock mine, Cottonwood Canyon, Churchill County **21**:484s
 Lovelock (near), Pershing County **11**:59s, **12**:45s
 Luning, Mineral County: **11**:13–15s, **12**:394h; see also Nevada—Gabbs, Nye County
 Majuba Hill mine, Pershing County **16**:47s, **16**:48s, **16**:57–72h,p,m,g, **20**:390s, **24**:171–180h, **25**:211s
 Manhattan, Nye County **16**:45s, **22**:53s
 McCoy mine, Lander County **21**:484s
 McDermitt mine, Humboldt County **8**:517s, **9**:113s
 McGinnity shaft, between Jumbo and Clermont mines, Goldfield, Esmeralda County **16**:44s, **16**:48s
 Mercury mine, Steamboat Springs, Washoe County **16**:25h
 Metals mine, Churchill County **20**:70s, **20**:390s
 Mohawk Combination Lease, Goldfield, Esmeralda County **16**:47s
 Mohawk mine, Goldfield **3**:82–83s
 Montgomery Pass area, Mineral County **18**:360s
 Nevada mine, Mineral County **12**:83s
 New Bullfrog mine, Nye County **23**:425s
 Newmont mine, near Carlin, Eureka or Elko County **22**:383s
 Northumberland mine, Toquima Range, Nye County **16**:37–41h,g,m
 Ophir mine **13**:398s
 Outlaw mine, Mariposa Canyon, east of Round Mountain, Manhattan district, Nye County **16**:44s, **22**:171–182h,m,g,p
 Pershing County (locality not specified) **9**:113s, **17**:342s
 Peterson Mountain, Washoe County **19**:332s
 Poverty Peak, Humboldt County **16**:303s
 Pyro pit, Snowstorm mine (see Snowstorm mine)
 Red Bird mercury mine, Pershing County **16**:46s
 Relief Canyon mine, Churchill County **21**:484s
 Richmond mine, near Eureka, Eureka County **23**:425s
 Rosella prospect, north of Boss mine, Goodsprings district, Clark County **16**:55s
 San Rafael mine, Nye County **21**:484s
 Sheets-Ish lease, Mohawk mine, Goldfield, Esmeralda County **16**:44s, **16**:48s
 Snow drift (Snowdrift mine), near Paradise Valley, Humboldt County **18**:243s, **18**:244s, **19**:128
 Snowstorm mine, Lander County **21**:484s
 Special issue **16**:#1
 Steamboat Springs, Washoe County **16**:25–31h,p,m,g, **16**:48s
 Summit King mine, Churchill County **22**:383s
 Ten Mile district (Winnemucca), Humboldt County **18**:(84s)
 Tonopah (near), Esmeralda County **22**:383s
 Type localities: **16**:3m, **16**:43–55
 Valmey (near), Humboldt County **23**:425s
 Van-Nav-Sand claim, Sec. 34, T16N, R52E, Eureka County **16**:48s
 Western U.S. mine, Gold Hill, Tooele County **14**:56s
 Wheeler Peak, White Pine County **20**:70s, **20**:390s
 Whiskey Canyon, Lewis district, Lander County **21**:484s
 White Caps mine, east of Manhattan, Nye County **16**:81–88
 White Pine County (locality not specified) **1**:75–79s
 Willow Creek, Pershing County **22**:383s
 Winnemucca, Humboldt County **13**:368s, **20**:390s
 Zapot claim, Mineral County **23**:425s

GENERAL INDEX

NEWBERYITE

Australia

Victoria

Skipton Cave, near Ballarat **9**:(113), **19**:361h

United States

California

Mono Lake, Mono County (after struvite) **19**:332n

NEW BRUNSWICK

Lake George antimony mine, Lake George, York County **22**:263–268h,m,g

Mt. Pleasant, Charlotte County **18**:362

NEW HAMPSHIRE

Amethyst localities **21**:209s

Bald Mountain Ridge, near Ossipee, Carroll County **23**:425s

Beryl Hill, Grafton, Grafton County **19**:369h

Beryl Mountain mine, West Andover, Merrimack County **4**:125s

Bibliography of locality literature **18**:220

Bibliography of mineralogy literature **10**:22

Blue Mountain, Albany, Carroll County **20**:390–391s

Carroll County **20**:391s

Chandler pegmatite **17**:342s

Coos County **20**:391s

Dartmouth ski area **17**:342s

Fitzgibbon pegmatite, East Alstead, Cheshire County **17**:300s

Fletcher mine, North Groton, Grafton County **4**:113s, **4**:114s, **4**:116s, **4**:122s

Franklin **19**:332s

Government pits, White Mountain National Forest, Albany, Carroll County **14**:47–48, **18**:360s

Hartford mine (see Palermo mine)

Iron mine, Barlett (Bartlett, Carroll County?) **8**:93s

Keyes mine, Orange **17**:342s

Moat Mountain area, North Conway, Carroll County **4**:184s, **5**:240s, **17**:342s

Moose pocket, Carroll County **3**:391s

North Groton, Grafton County **3**:280s

Palermo (Palermo #1; Hartford) mine, near North Groton, Grafton County **4**:108–112g, **4**:113–114s, **4**:116s, **4**:122–127s, **4**:232h,g, **4**:282–285g,h, **5**:274–279p,p,h, **6**:215–216h, **7**:36h, **7**:102h, **8**:517s, **9**:113s, **9**:253s, **18**:141s, **21**:484s,h

Pearl Lake, Lisbon, Grafton County **25**:377s

Rainbow pocket, Coos County **18**:429, **20**:363–364s

Rice pegmatite, North Groton, Grafton County **4**:110g

Smith (G. E. Smith) mine, near Newport, Sullivan County **4**:111g, **4**:112g, **4**:117s, **4**:125, **4**:143s, **16**:497s

South Percy Peak, Stratford, Coos County **23**:425s

Sugarloaf Mountain area, Coos County **17**:342s

Waterville **19**:332s

Wise mine, near Westmoreland **20**:391s, **22**:383s

NEW JERSEY

Abbreviated Manual of Franklin Minerals, An **2**:47b

Amethyst localities **21**:209s

Andover iron mine, Andover, Sussex County **3**:63–64h,g

Bemco mine, near Cranberry Lake, Sussex County **11**:39p,h,g, **11**:388s

Bibliography of locality literature **18**:220–221

Bibliography of mineralogy literature **10**:22, **10**:251

Bodnar quarry (see Edison quarry)

Bound Brook, Somerset County **9**:30s

Bulls Ferry Road, North Bergen, Hudson County **22**:383–384s

Burger's quarry, Paterson (see Upper New Street quarry)

Chimney Rock quarry, First Watchung Mountain, Bound Brook, Somerset County **9**:25–31p,g,h,m, **24**:383s

Edison (Bodnar) quarry, Rudetown, northeast of Ogdensburg, Sussex County **6**:174–175g

Fort Lee, Bergen County: **3**:184–185, **15**:114s; road cuts **6**:139

Fowler quarry, Franklin, Sussex County **8**:104s

Franklin mine, Sussex County: **4**:446, **5**:36–37s, **6**:150–151b, **9**:114s, **10**:47–48s, **10**:248s, **11**:15s, **11**:111s, **12**:373–375s, **13**:229–232s, **14**:183–194h,m, **14**:203–204s, **14**:251–252s, **15**:145s, **15**:146s, **17**:123–125s, **19**:75s, **19**:78s, **19**:273–275, **23**:465–467s; Buckwheat dump preserved for collecting **2**:276ff,h; genesis compared with Långban, Sweden **1**:164g; last piece of ore mined **22**:465–466h,p; lead silicates **22**:273–278s; see also New Jersey—Trotter mine

Franklin/Sterling Hill **7**:270h, **10**:160–165

Franklin-Sterling Mineral Exhibit **19**:273–275

Great Notch quarry, Great Notch, Passaic County **18**:252–253h

Guide to Mineral Collecting at Franklin and Sterling Hill, New Jersey, A **6**:150–151b

Haledon, Passaic County **20**:463s

Hamburg (Rudeville), Sussex County **8**:104s

Hinchcliffe Stadium site, Great Falls Park, Paterson, Passaic County **9**:162–163h

Hoxie's quarry, Paterson, Passaic County **9**:162h

Kennedy High School site, Totowa Ave., Paterson, Passaic County **9**:163h

Laurel Hill, Secaucus, Hudson County **13**:175b

Lincoln Park, Morris County **12**:382s

Lower New Street quarry, Paterson, Passaic County **9**:158–162h

McKiernan & Bergin quarry, McBride Ave., Paterson, Passaic County **9**:161p, **9**:162h

Millington quarry, near Millington **24**:383s

Minerals of Franklin and Sterling Hill, The: A Check List **4**:44b

Mullica Hill, Gloucester County **11**:307–311m,g

New Street quarries, Paterson (see Upper and Lower New Street quarries)

Nicoll quarry, Franklin, Sussex County **14**:62s

North Hoyt Street, Ft. Lee, Bergen County **22**:384s

Ogdensburg, Sussex County **18**:360–361s

Oxford quarry, south of Bridgeville, Warren County **14**:43–44m,g

Parker shaft, Franklin, Sussex County **19**:275s

Paterson area **9**:25–26g,m, **9**:157–179m,g,p,h

Planten Avenue quarry, Prospect Park, Passaic County **17**:129–130, **17**:407–408h,s

Prospect Park (Sowerbutt, Vandermade's) quarry, Planten Ave., Prospect Park, Passaic County **9**:162h

Quest for New Jersey Minerals **9**:384b

Rikers (Riker) Hill, Livingston, Essex County **12**:382s, **15**:114s

Route 80 roadcut, Paterson and West Paterson, Passaic County **1**:173–175h,g, **9**:162h

Rudeville (see Hamburg)

Sowerbutt quarry (see Prospect Park quarry)

Sterling Hill, Ogdensburg, Sussex County: **1**:86s, **4**:44b, **6**:150–151b, **9**:385–386s, **10**:45–47s, **11**:111s, **12**:369–370s, **12**:371–372s, **12**:373–375s, **13**:229–232s, **14**:251–252s, **15**:299–302s, **16**:123s, **19**:273–275, **21**:425–427h,g, **22**:367–376h,m,g,p, **23**:277s, **25**:308s; arsenates **13**:35–38g; "Chalcopyrite Room" **25**:95–104h,g,m

Summit (Route 78 and Shunpike Rd.), adjacent to Houdaille quarry, Union County **4**:234h,s

Taylor mine, Franklin, Sussex County **25**:308s

Trotter mine, Franklin, Sussex County **19**:274s

Upper New Street (Burger's) quarry, Paterson, Passaic County **9**:158–162h, **15**:227–229s

Vandermade's quarry (see Prospect Park quarry)

NEW MEXICO

Alhambra mine, Grant County **20**:59

Anchor mine, Magdalena district, Kelly, Socorro County **20**:17m, **20**:21s

Aztec mine, Ute Creek, Colfax County **18**:84s

Beryllium Virgin claim, Paramount Canyon, Sierra County **22**:384s

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Bingham (see Blanchard claims; Blanchard mine; Hansonburg district)

Black Cloud mine, Magdalena district, Kelly, Socorro County **20**:17m, **20**:21s

Black Mesa **7**:222s

Black Range, Socorro County **18**:84s

Blanchard claims, Hansonburg district, Bingham, Socorro County **20**:31–46m,p,h,g

Blanchard mine, near Bingham, Socorro County: **11**:192s, **22**:384s, **23**:425s; closed to collecting **25**:2h

Bobbi Dee mine, Hillsboro, Sierra County **20**:60

Boiler Peak, Sierra County **20**:404s

Bridal Chamber, Lake Valley, Sierra County **20**:421–425h

Buckhorn mine, Red Cloud district, Gallinas Mountains, Lincoln County **24**:383s

Burro Ridge, Sierra County **16**:137s

Carnahan mine, San Pedro Mountains, Santa Fe County **20**:63

Catron County fluorite locality (id as Pine Canyon, Grant Co)

Cerro Colorado, Bernalillo County **20**:61

Chloride Flat district, Silver City, Grant County **20**:67s

Cook's Peak, Luna County **20**:10, **20**:50s

Cottonwood Draw, north of Acme, Chaves County **22**:384s

Denver shaft, Bayard district, Grant County **20**:67s

Dona Ana County **9**:113s

East Grants Ridge, Cibola County **20**:61

Eastside mine, San Juan County **20**:10

El Tigre claim, Capitan Mountains, Lincoln County: **14**:330s; see also New Mexico—Mina Tiro Estrella

Empire Zinc Co. mine, Grants County **20**:10

F-33 mine, Valencia County **20**:10

Germany, Magdalena district, Kelly, Socorro County mines **20**:17m, **20**:21s

Gila River, Grant County **20**:59

Grants Ridge, Valencia County **16**:140s

Graphic mine, Magdalena district, Kelly, Socorro County **20**:13–14h, **20**:17m, **20**:18s

Hanover-Fierro district, Grant County **22**:68g

Hanover #2 mine, Hanover-Fierro district, Grant County **22**:69s

Hansonburg district (Bingham), Socorro County **20**:31–46p,m,h,g

Harding mine, east of Dixon, Taos County **7**:270–271h, **8**:115–126h,m,p,g, **20**:63–64, **21**:484s, **23**:425s

Hardscrabble mine, Magdalena district, Kelly, Socorro County **20**:17m, **20**:21s

Hillsboro, Sierra County **15**:149s, **20**:59–60

Hilltop mine, Dona Ana County **20**:11s

Irish Rose vein, Victorio district, Luna County **20**:57

Iron Mask mine, Magdalena district, Kelly, Socorro County **20**:17m, **20**:20s

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

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- Lemitar Mountains, Socorro County **20**:61
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- Lone Pine mine, Catron County **10**:301s, **20**:10s
- Lordsburg district, Hidalgo County **20**:57
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- Rose mine, southwest of San Lorenzo, Mimbres district, Grant County **25**:195–202h,m,g,p
- Royal Flush mine, Hansonburg district, Bingham, Socorro County **20**:33m, **20**:40s
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- Sunshine #1 mine, Hansonburg district, Bingham, Socorro County **20**:11s, **20**:33m, **20**:41–42s
- Sunshine #3 mine, Hansonburg district, Bingham, Socorro County **20**:33m, **20**:37–39
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NEYITE

Canada

British Columbia
 Alice Arm **8:(517)**

United States

Nevada
 Whiskey Canyon, Lander County (massive) **21:484n**

“NICHOLSONITE”

See *Aragonite*

NICKELBLÖDITE

Australia

Western Australia
 Kambalda and Carr Boyd Rocks mines (announced; efflorescences) **9:40h,q**

NICKELINE

Canada

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 Port Radium **20:(207)**
 Ontario
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Kamacite, taenite and/or tetrataenite

Moon

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NICKEL-SKUTTERUDITE

Locality not specified **20:12h**

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Germany

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“NISAITE”

See *Phurcalite*

NISSONITE

Australia

Queensland
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NITER

Chile

Chuquicamata **9:324**

NITRATINE

“Soda niter”

Chile

Chuquicamata **9:324**
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NITROBARITE

Toxicity **11:6**

NITROCALCITE

Toxicity **11:6**

NITROMAGNESITE

Toxicity **11:7**

NOBLEITE

United States

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NOLANITE

Gabon

Mounana **6:239n**

United States

Arizona

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NONTRONITE

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Italy

Campania

Nocera (near) **12:377h,d,q**

United States

New Jersey

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New York

Amity area, Orange County **9:87–88**

NORDITE-(Ce), -(La)

Canada

Québec

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NORDSTRANDITE

Canada

Ontario

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Québec

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Henderson County **18:361s**
Hiddenite, Alexander County **19:117s, 25:377s**
Ideal Cement Co. quarry, east of Castle Hayne, New Hanover County **5:111–114m,g**
Iredell County **21:208**
Kings Mountain: **6:251s, 6:276**; see also North Carolina—Foote Mineral Co. mine
Kings Mountain mine, Gaston County **13:394s**
Latimore, Cleveland County **23:425h,s**
Lawson mine, northwest of Spruce Pine, Mitchell County **10:29m**
Leepers Creek, Lincoln County **21:208s**
Lithium Corporation of America spodumene mine, near Bessemer City **4:275**
Mann & Arlington mine, Nash County **18:84s**
McKinney mine, west of Spruce Pine, Mitchell County **10:29m, 11:15s**
Moncure, Lee County **16:497s**
Old 20 feldspar mine, west of Spruce Pine, Mitchell County **10:29m**
Ore Knob mine, Jefferson, Ashe County **9:95h,s**
Partis mine, Franklin County **18:84s**
Reed gold mine, Cabarrus County **18:75–76h**
Rutherford County **13:397s**
Southers Branch mine, northwest of Spruce Pine, Mitchell County **10:29m**
Spruce Pine area, Mitchell County **10:29–30g,m**
- Sullins Branch mine, northwest of Spruce Pine, Mitchell County **10:29m**
Tar Branch, Winston-Salem, Forsyth County **2:231ff,s**
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- Bibliography of locality literature **18:222**
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- See also *United Kingdom*
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Dunsevenick, County Antrim **13:44s**
Giant's Causeway, County Antrim **20:395s**
Glennam, County Antrim **13:44s**
Island Magee, County Antrim **13:44s**
Moneymore quarry, County Londonderry **13:44s**
Slieve Donard quarry, Mourne Mountains, County Down **13:44s**
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- Uganda**
Lake Kattwe: **20:72n**; 1.5 cm octahedra **24:52n**
- United States**
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Searles Lake: crystals to 2.5 cm **6:77–78c, 6:79d**; micro **8:431n**
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- Brock zone, Giant property, Yellowknife **16:46s**
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Echo Bay mine, Port Radium **20:201–208m,g,h**
El Bonanza mine, Port Radium **12:183s, 20:201–208m,g,h**
Eldorado mine, Port Radium **20:201–208m,h,g**
Giant Yellowknife mine **13:394s**
Hadley Bay, Victoria Island **24:385s**
Mt. Walker, Somerset Island **22:386s**
Nanisivik mine, Baffin Island **17:340s, 18:362s, 19:334s, 20:391s, 21:485s, 21:515–534m,p,h,g, 24:388s**
Narsuk, near Coppermine **19:334s**
Nug-4 claim, Nahani River area **17:340s**
Pointe de Misère (unnamed lake north of) **23:428h**
Polaris mine, Little Cornwallis Island **22:386s**
Resolute (south of), Somerset Island **18:363s**
Thor Lake (new Be-REE pegmatite) **17:340**
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- NORWAY**
- Agnes Sandefjord, Vestfold **23:435s**
Almklovdal, Sunnmøre region, Møre Og Romsdal **22:52s**
Alta, Finnmark **13:51s, 13:181s**
Åmot, Modum, Buskerud **8:390s**
Arendal, Aust Agder **15:144s**
Bamble, Telemark **22:52s**
Beiaren, Nordland **22:52s**
Bratthagen, Lagendalen, Larvik **20:397s**
Dauren, Frigstad, Iveland, Aust Agder **22:52s**
Drammen area, Buskerud **22:51s**
Dypingal, Snarum **22:52s**
Evje area, Aust Agder **22:52**
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Glomsrudkollen, Åmot, Modum, Buskerud **9:113s, 10:124s, 13:170s**
Gottes Hülfe mine, Kongsberg **17:34s**
Grisebingen (see Matskorhae)
Gudbrandsdalen **20:238s, 20:483s**
Høydalen, Telemark **9:40s**
Hardangerfjord area **20:397s**
Hardangervidda (plateau in Hordaland and Buskerud): **10:121, 18:368s, 20:73s, 20:397s**; see also Norway—Matskorhae
Hattfjellidal, Nordland **23:436h,s**
Helle **2:52s**
Hitra Island, Sør-Trøndelag **23:356s**
Hotvedt, Sandefjord **20:397s**
- Hundholmen, Tysfjord, Nordland **9:318, 10:124, 22:52s**
Hurum, Buskerud **24:393s**
Iveland area, Aust Agder **22:52**
Jutenheimen area, Oppland or Fjordane **9:318g**
Kirtiansund, south of Åheim **22:391s**
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Kongsli, Vinstra, Oppland **24:393s**
Kragerø **20:397s**
Kristiansund (unspecified island near, and tunnel work near), Møre og Romsdal **23:436n**
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Langesund area larvikite quarries, Telemark/Vestfold **23:436s**
Langesundfjord area, Oslo region: **9:113s**; syenite pegmatites **12:227–230m,g**
Liset, Selde **22:391s**
Locality not specified **20:238s**
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Mo i Rana, Nordland **20:397s, 22:391s**
Namdalen, Nord-Trøndelag **23:436s**
Nordli, Nord-Trøndelag **23:436s**
Nybø, Vågsøy Island, Sognog Fjordane **22:391s**
Oksøykollen, Modum **20:397s**
Omdal, Froland **22:47s**
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Øyna, Froland **22:391s, 23:436s**
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Radøy Island, north of Bergen, Hordaland **22:391s**
Raipas district, Finnmark **15:38s**
Sandressjøen (small island outside of) **24:393s**
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Skutterud, Modum **8:390s**
Smøla Island, Møre og Romsdal **23:356s**
Snarum, between Kongsberg and Ringerike, Buskerud **2:235s, 8:106s**
Sønderled **22:48s**
Søre Lia, Lom **20:397s**
Sørøya Island, Finnmark **22:48s, 22:225s, 23:435–436**
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Styggedalsynken, Herre, Bamble **20:397s**
Tangen quarry, near Kragerø **17:275s**
Tingelstadterjem, Modum **20:397s**
Tørdal, Telemark **23:436s**
Tosenvegen, Vefsn, Nordland **24:393s**
Tvedalen, Larvik **13:238s**
Tysse, Hardangervidda region, Hordaland/Buskerud **7:130–131s**
Valdres region, Oppland **20:483s, 24:393s**
Valldal, Møre og Romsdal **24:393s**
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- NOSEAN**
- Germany**
Rheinland-Pfalz
Laacher See area, Eifel district **8:324h,d**
-
- NOVACEKITE**
- Brazil**
Bahia
Brumado mine: euhedral to 2.4 cm **21:255–256p,n**; 5 cm crystal **13:(33p)**

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Pedra Preta pit, Brumado district: crystals to 2.5 cm **9**:198p, **9**:200–201; tabular to 3 cm **7**:129

France

Mas d'Alary, Herault **23**:434n

NOVA SCOTIA

Acadia gold mines, Oldham, Halifax County **14**:337m, **14**:338s

Archibald mines, Harrigan Cove, Halifax County **13**:337m, **13**:340s

Baker's mine, Oldham, Halifax County **14**:337m, **14**:338s

Borden lead, Mt. Uniake district, Hants County **13**:338m, **13**:341s

Boylston (near) **23**:428s

Bras D'Or Lake, southwest of Iona, Cape Breton Island **24**:388h,s

Crook Cove, near Seal Harbour, southeast of Goldboro, Guysborough County **14**:337m, **14**:339s

Digby Neck **1**:84s

Dresser Industries quarry, Walton **3**:203m, **3**:204, **4**:84s

Dufferin mine, Salmon River **18**:84s

Gold deposits (with list and map of 61 localities) **13**:335–344h,g,m,p

Halls Harbour, Minas Basin, Bay of Fundy **21**:485s

Harrigan Cove, Halifax County **13**:337m, **13**:340s

Lake Ramsay **17**:342s

Montague mine, Waverly, Halifax County **14**:337m, **14**:340s

Ovens Natural Park, Lunenburg County **13**:337m, **13**:340p

Partridge Island **4**:236s, **10**:43s

Tangier mine, east of Halifax **21**:485s

Wassons Bluff, near Parrsboro **18**:433s

West Gore, Hants County **13**:337m, **13**:341s

Withrow mine, Hants County **18**:84s

NSUTITE

South Africa

Cape Province

Hotazel mine **9**:151

NUFFIELDITE

Canada

British Columbia

Lime Creek, Alice Arm (newly described; 3 mm prismatic) **1**:136h,q

NUKUNDAMITE

Fiji

Undu mine, Nukundamu (announced) **11**:111–112h,q

NULLAGINITE

Australia

Western Australia

132 North deposit, Widgiemooltha district (micro spheres) **25**:287q, **25**:289p, **25**:290

“NUNAGAWARITE”

Species status uncertain

Japan

Oumi-cho, Niigata **9**:(113)

NYBOITE

Norway

Nybø, Vågsøy Island **22**:(391)

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O'DANIELITE

Namibia

Tsumeb **13**:139p, **13**:142c

OFFRETITE

Vs. erionite **2**:52ff,q

Australia

New South Wales

Willy Wally Gully **19**:402–403p

Victoria

Flinders area sea cliffs (levyne-offretite) **12**:(108)

Red Cliff Head, Phillip Island (on levyne) **19**:455

Sunderland Bluff, Phillip Island (on levyne) **19**:457q

Canada

British Columbia

Monte Creek, Kamloops district **19**:333n

Ireland

Parkgate quarry, County Antrim (poss. erionite) **10**:174, **10**:175p

Scotland

Strathclyde

Loanhead quarry, Beith (resembles shredded coconut) **24**:392n

United States

Colorado

Table Mountain, Jefferson County **19**:164q, **19**:172–173p

Oregon

Beech Creek, Grant County (on levyne) **6**:171–173p

OGDENSBURGITE

United States

New Jersey

Sterling Hill mine (newly described) **12**:369–370h,q

OHIO

Bibliography of locality literature **18**:222

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Clay Center, Ottawa County **8**:60, **23**:425h,s

Duff quarry, near Huntsville, Logan County **11**:97–99s, **18**:391–398g

Huntsville, Logan County **10**:42s

Huron River (2 localities), Erie County **20**:459s, **20**:463s

Lime City, Wood County: **18**:361s; see also Ohio—Maumee Stone Co.

Maumee Stone Co. quarry, Lime City, Wood County: **6**:38s; see also Ohio—Lime City

Nagley strip mine, Nagley (Negley, Columbiana County?) **10**:297

Portage (quarry near), Wood County **18**:147s

Pugh quarry, Custar (closed to collecting) **11**:54h

Ross County **18**:361s

Sandusky County (locality not specified) **22**:384s

Suever Stone Co. quarry, Delphos, Van Wert County **18**:361s

White Rock quarry, Clay Center, Ottawa County **22**:216s

OJUELAITE

Namibia

Tsumeb **13**:144p

OKANOANITE-(Y)

United States

Washington

Washington Pass (twins to 2 mm) **23**:428

OKENITE

Canada

Québec

Jeffrey mine **10**:76, **10**:80p

India

Bombay: puffballs to 4 cm **4**:233–234p; puffballs to 7.5 cm **7**:253–254p

United States

Arizona

Horseshoe Dam area, Maricopa County (coating) **14**:116

Virginia

Fairfax quarry, Fairfax County (micro spheres) **3**:178–179p

Washington

Skookumchuck Dam, Thurston County (compact spheres to 1.5 cm) **3**:33

Wyoming

Yellowstone National Park (micro) **12**:35–36q

OKLAHOMA

Arbuckle Mountains **25**:385–386s

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Byars deposit, east of Paoli, McClain County **17**:371–372h,m

Cherokee (see Great Salt Plains National Wildlife Refuge)

Great Salt Plains National Wildlife Refuge, between Cherokee and Jet, Alfalfa County **7**:158g,h

Jet (see Great Salt Plains National Wildlife Refuge)

McCurtain County **25**:385s

Paoli (southeast of), Garvin County **17**:371–374m,p,g,h

Teepee Queen Copper Co. mine, southeast of Paoli, Garvin County **17**:371–372h,m

Wolf Ridge silver mine, east of Paoli, Garvin County **17**:371–372h,m, **17**:374s

“OLIGOCLASE”

See also *Plagioclase Series*

Brazil

Bahia

Ibitiara (flawless) **23**:432n

Portugal

Monte Redondo quarry (1 cm crystals) **2**:42n

United States

Arizona

Lowell shaft, Bisbee district (2 cm crystals) **12**:309

Massachusetts

Chester emery mines **9**:240–241

OLIVENITE

Australia

New South Wales

Kintore opencut, Broken Hill (zincian; series with cuprian adamite) **19**:427–428p,q

South Australia

Dome Rock (clinoclase, conichalcite after) **12**:107

Preamimma mine **12**:(107)

Spring Creek mine **12**:(107)

Western Australia

Ashburton Downs (prismatic to tabular, to 1 cm) **24**:214p

Bali Lo mine **12**:(110)

132 North deposit, Widgiemooltha district (nickeloan; micro prismatic) **25**:290

Chile

Chuquicamata **9**:330d,c

Greece

Kamaréza mine, Laurium (acicular to 1 cm) **7**:122n

Namibia

Tsumeb mine: adamite-olivinite series **10**:113; crystals to 2.5 cm, some ferroan, zincian **8**:T28–29, **8**:T50, **8**:T57p; olivinite-“cupro-adamite,” crystals to 12 mm **12**:45; 1 cm crystals **15**:168p

Scotland

Strathclyde/Dumfries and Galloway

Leadhills-Wanlockhead district **12**:(250)

South Africa

Transvaal

Stavoren **20**:398

United States

Arizona

Ajo, Pima County (id as conichalcite) **11**:265

Grand Reef mine, Graham County **11**:223, **11**:224p

Grandview mine, Coconino County (prismatic, acicular) **2**:220p, **2**:221q

Magma mine **14**:(82)

Mammoth mine, Pinal County (id as fornacite) **11**:177

New Cornelia mine, Pima County **14**:291p, **14**:296

79 mine **3**:254

Nevada

Majuba Hill mine: euhedral blades to 12 mm **16**:67–68p; fibrous, “leucochalcite” **16**:67, **16**:70

Utah

Gold Hill mine: **24**:18p; chrysocolla after **24**:20

“OLIVINE”

Series name; see also end-members Fayalite and Forsterite

In meteorite **15**:70, **16**:306n

Toxicity **11**:9

Burma

Locality not specified (“peridot,” faceted) **19**:115n

Germany

Rheinland-Pfalz

Laacher See area, Eifel district (colorless, green, red) **8**:323d

Greenland

Inner Fiskefjord (Niagununaq) (crystals to 6 cm) **24**:G15, **24**:G17p

United States

Arizona

Bisbee district **12**:309

OLMSTEADITE

United States

South Dakota

Big Chief mine, Pennington County **17**:298–299c,d

Hesnard mine, Pennington County **17**:298–299c,d

White Cap mine, Pennington County **17**:299p

OLSACHERITE

Bolivia

El Dragón mine, Potosí (platy to 2 mm) **21**:144p

OLYMPITE

Russia (formerly USSR)

Kola Peninsula **24**:(389)

OMPHACITE

United States

California

Petaluma (near), Sonoma County **8**:433n

“ONEGITE”

See *Goethite*

ONORATOITE

Italy

Tuscany

Cetine mine: **15**:33–34p,h,c; acicular to 5 mm **8**:285p,q

GENERAL INDEX

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 Arnprior area **4:184s, 13:83s**
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 Caland pit, Atikokan **18:244s, 24:223s**
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 Canada Talc Co. mines, near Madoc **13:83s,**
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 Henderson talc mine, near Madoc **13:83s**
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 Keeley mine, south of Cobalt Lake, South Lorrain
 Township **13:109s**
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 County **13:81s, 13:209–213m,h,g**
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213m,h,g
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Russia (formerly USSR)

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PALLADSEITE

Brazil

Minas Gerais

Itabira (announced; grains) **9**:40h,q

PALYGORSKITE

Australia

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Portugal

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PAPAGOITE

South Africa

Transvaal

Messina mine: in quartz **18**:(244); in quartz crystals, some id as plancheite **22**:194–195p, **22**:197

United States

Arizona

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“PARABAYLDONITE”

See Conichalcite

“PARABOLEITE”

Intermediate between boleite and pseudoboleite; not valid species

Mineralogy of the boleite group; numerous world localities **5**:286h

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Chile

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PARADAMITE

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PARADOCRASITE

Australia

New South Wales

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South Australia

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British Columbia

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Western Australia

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 - Fresnillo **22:391n**

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- Kongsberg **17:(35)**

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- Hiendelaencina district, Guadalajara (massive) **23:248**

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 - Bisbee district (grains) **12:310**
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 - Morning Star mine, Alpine County (micro crystals) **22:37**
 - Zaca mine, Alpine County (tabular to 1.6 mm) **22:37**
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 - Buffalo Boy mine, San Juan County **7:301n**
 - Bulldog mine, Creede **10:331**
 - Eagle mine, Eagle County (sharp hexagonal plates) **23:277**
 - Enterprise mine, Rico district **16:(214)**
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 - Rico Aspen mine, Rico district **16:(214)**
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- Vs. violarite **2:53–56q**

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

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- Illinois
 - Hancock County (“violarite” id as) **2:53–55p,q**
 - Gray’s quarry, Hancock County (“pipe-cleaner” habit; “millerite” id as) **1:151ff,p,q**
- Missouri
 - Sweetwater mine, Reynolds County (acicular to 12 mm) **9:111–112p,q**

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- Shinkolobwe mine **20:276**

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- Québec
 - Mt. St-Hilaire: **10:108**; massive, euhedral to 4 cm, fl. SW UV **21:330**, **21:332p**
 - Poudrette quarry **18:(363)**

Greenland

- Ifímaussaq complex (tabular to 10 cm) **24:G26h**

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- Mt. Malosa region (micro crystals) **25:35**

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- New Mexico
 - Point of Rocks quarry, Colfax County **15:153**, **15:154p**, **16:150p**

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- Rheinland-Pfalz
 - Laacher See area, Eifel district (massive; crude crystalline) **8:317**

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- Cape Province
 - Black Rock mine **22:289n**
 - N’Chwaning mines: **22:289n**; crystals to 3 cm **23:436n**
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- Barroca Grande mine (see Panasqueira mine)
- Borralha mine, Minho **12:83–84s**
- Corga Seca mine (see Panasqueira mine)
- Cunha Baixa mine, Beira Alta **15:293–297g,m**
- Estremoz, Alto Alentejo **18:368s**, **22:225s**
- Monte Redondo quarry **2:401–402g,s**
- Panasqueira (Panasqueira) mine: **2:73–78p,h,g**, **10:301h**, **18:368s**, **19:266s**; closed **25:215h**
- Rebordões mine (see Panasqueira mine)
- Vale da Ermida mine (see Panasqueira mine)

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- British Columbia
 - Rocher Déboulé mine, near Hazelton **15:90–91**
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 - Mt. St-Hilaire (efflorescences) **23:429n**

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- Cornwall
 - Drakewalls mine, Gunnislake **8:(390)**
 - Fowey Consols mine, John’s Lodge **13:170q**
 - Gunnislake **9:(114)**

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

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- Tsumeb (crystals) **8:T29**

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- Maharahara mine **17:202–203**

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- Australia **20:301**, **20:403**, **21:499**, **22:223**, **22:478**, **24:245**, **24:319**, **25:385**
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POUGHITE

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See also Manganpyrosmalite

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Canada

- Northwest Territories
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See also names of individual species

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 Niccioleta mine (crystals to 1 cm; rosettes) **10:290**

Mexico

- Chihuahua
 Contessa mine, Santa Eulalia (horn-shaped to 4 cm) **12:46**
 Santa Eulalia **5:76p**

Morocco

- El Hamman (pyrite after) **19:337n**

Norway

- Kongsberg **17:(35)**

Romania

- Cavnic (tabular to 11 cm) **23:268–269n**
 Herja, Maramureş district (rosettes) **13:374n**

Russia (formerly USSR)

- Dal’negorsk: **20:485**, **24:226n**; 10 cm crystals **23:268**
 Nicolai shaft, Dal’negorsk (3.8 cm euhedral) **22:214p**, **22:216n**
 Sverdlovsk area (?) **20:75n**

Serbia (formerly Yugoslavia)

- Trepča (rosettes to 10 cm) **4:57–58**

South Africa

- Transvaal
 Messina district **22:198n**

Spain

- Santa Teresa mine, Guadalajara (scaly masses) **23:248**

Sweden

- Häkansboda, Västmanland (massive) **3:38n**

United States

- Arizona
 Bisbee district **12:310**
 Gardner shaft, Bisbee district (massive) **12:310**
 Sacramento shaft, Bisbee district **12:310n**
- California
 Boron, Kern County **17:138–139p**
 Independence mine, Inyo County **15:(16)**
 Jensen quarry, Riverside County (on and in phlogopite) **15:279**, **15:289n**
 Kalkar quarry, Santa Cruz County (massive) **17:320**
 Thompson mine, Inyo County (massive) **15:16n**
- Colorado
 Eagle mine, Eagle County (16 mm crystal) **7:286n**, **7:290p**
 Italian Mountain area, Gunnison County **15:87n**
 Sunnyside (American Tunnel) mine, San Juan County **10:359n**

Georgia

- Boly Field mine, Lumpkin County (massive, with gold) **18:(68)**

Idaho

- Owyhee County (crystals to 5 cm) **22:382n**

Maryland

- Howard-Montgomery quarry, Howard County (very thin plates) **25:54**

Michigan

- Michigan mine, Marquette County **17:(121)**

Nevada

- Majuba Hill mine: **24:178n**; grains **16:(62)**

New Mexico

- Graphic-Waldo mine, Socorro County **20:(21)**
 Point of Rocks quarry, Colfax County (4 mm rosettes) **15:153**, **15:155p**

Pennsylvania

- French Creek mine (massive) **25:118n**
 Newton-Hamilton (near), Mifflin County (moveable crystal in fluid-filled inclusion in quartz) **18:435–436p**

South Dakota

- Double Rainbow mine, Lawrence County (arsenopyrite after, to 4 cm) **1:119ff**

Texas

- Damon Mound, Brazoria County (hexagonal rosettes to 4 cm) **11:100–101p**

QUARTZ

Chalcedony and opal listed separately

Alternate coating of terminal faces explained **2**:17ff
Amethyst occurrences in eastern U.S., approx.
200 listed **21**:203–213c,p

Amethyst structure, color, etc. **3**:221–225q

“Aqua Aura” (synthetically blue) **20**:323

Artificially color-intensified rose quartz **18**:375

Bergkristall (*ExtraLapis* No. 3) **25**:305b

Bergkristall; *Stein der Weisen der Wissenschaft*
(rock crystal) **24**:399b

Blue color, causes **2**:79–82p,q

Enormous crystal (8000 kg) **18**:245p

Exhibit at Royal Ontario Museum; morphology,
twinning, etc. **4**:7–14d,c

Faden habit, origin, table of 24 notable localities
21:191–201p,d,c

Japan twins, morphology and 77 world occur-
rences **10**:137–146p,d,c

Kristall Alpin (*ExtraLapis* No. 5) **25**:305b

Polyhedral “box” habit explained **5**:222

Rose quartz, color due to minute oriented rutile
2:226–227q

Smoky and amethystine, causes of color **20**:365–
367q

Toxicity **11**:10

Australia

New South Wales

Arsenic shaft, Kingsgate mines (clear crys-
tals mined for piezoelectric use) **16**:269,
16:273

Garrawilla area **19**:396p

Giant Blow pipe, Kingsgate mines (distorted)
16:284–285c,d

Hillgrove **18**:29n

Kingsgate mines: smoky zoning shows Bra-
zil twinning **16**:284; varied inclusions
16:285

Old 25 mine, Kingsgate mines: euhedral
crystals with euhedral arsenopyrite inclu-
sions, all in massive arsenopyrite **16**:279n;
oddly distorted **16**:285c,p

Prospect quarry (fibrous spherulites in heu-
landite, tentative id) **25**:194

Queensland

Mt. Glorious mine **19**:488

Mt. Isa mine (boulangerite in) **19**:478, **19**:483

South Australia

Beltana mine (to 1 cm, some doubly termi-
nated) **22**:453

Burra Burra mine (prismatic to 10 cm; vari-
ous colors, habits) **25**:127

Moonta mines (smoky) **19**:415p, **19**:416

Wallaroo mines **19**:416

White Rock quarry (doubly terminated, some
Japan-law twins) **24**:49n

Victoria

Crystal sketches from 1870 **19**:362

Fryerstown, near Castlemaine **18**:29n

Kitty Miller Bay, Phillip Island (amethyst)
19:456

Moralla, near Cavendish: smoky **20**:72n;
smoky, doubly terminated **18**:141, **18**:144p
Morally (smoky, 2–4 cm doubly terminated)
21:487n

Austria

Bleiberg district (some rhombohedral, dihex-
agonal) **17**:367

Eiskögele, Salzburg (huge crystals) **17**:107

Knappenwand, Salzburg **17**:178

Modriach, Carinthia/Styria (rutile in) **17**:(106)

Saualpe, Carinthia (rutile in) **17**:(106)

Schafkar, Salzburg (sagenitic rutile in) **13**:173n

Schwemmois quarry, Steiermark (Styria)
17:106n

Zillertal Alps, Tyrol (amethyst, some scepters)
17:107n

Bolivia

Chambillaya mine, near Quime (Japan twins to
6 cm) **10**:139

El Dragón mine, Potosí (3 mm euhedral)
21:139n

Brazil

Bahia

Brumado: casts after unknown **20**:394; crys-
tals to 20 cm; Japan twins to 15 cm
9:198p, **9**:201p, **9**:203; green-tinted
23:497n; Japan-law twins to 5 cm **23**:432n

Coruja mine (amethyst; turns yellow-brown
on heating) **8**:386

Fazenda Recruta, northwest of Vitoria da
Conquista (large black crystals, odd mor-
phology) **4**:264–266p,c

Ibitiara: rutiled **2**:12n; rutiled to 12 cm
19:335n; smoky, gwindel habit **21**:(487)

Itabira (rutiled) **20**:(394)

Joanina mine (grey, violet termination) **8**:387

Pedra Preta mine (Japan twins to 12 cm)
7:129–130p

Quartzo Róseo, near Ribeirão do Largo (rose
quartz) **8**:385

Serra Negra, Baixo (scepters to 15 cm)
22:387n

Undisclosed locality (with amethyst core)
19:335n

Espirito Santo

Mimosa (near): amethyst scepters, cavernous
terminations, some {0001} faces **23**:432n;
smoky, with gem topaz **17**:149p–150

Minas Gerais

Araçuaí area pegmatites **12**:74

Buenopolis (blue due to included clay)
17:339n

Campo do Boa, northwest of Capelinha (clear
crystals) **5**:226, **5**:228p

Cedro farm **6**:286n, **6**:288p

Conselheiro Pena (near) (smoky) **18**:245n

Corinto (complex terminations) **19**:335n

Córrego do Urucum pegmatite (colorless,
smoky, rose) **17**:311–312

Córrego Frio mine, near Linópolis **14**:233

Cruzeiro mine **11**:370, **18**:365n

Diamantina (Brazil, Dauphiné, Japan twins)
2:12n

Divino das Laranheiras **19**:335n

Énio pegmatite, near Galiléia (core of peg-
matite) **12**:71

Fazenda Guariba, near Presidente Kubitschek
(milky; clear to 20 cm) **17**:193p

Gouveia: Brazil, Dauphiné, Japan twins
2:12n; Dauphiné twins **21**:487n

Itinga (rose) **19**:117n

Jaguaraçu pegmatite (with various inclusions)
25:166p, **25**:170

Jequitinhonha River, near Taquaral (deep
rose crystals with eosphorite) **2**:12

Jonas mine, near Conselheiro Pena (flat, with
green tourmaline) **13**:51

Laranjeiras mine, Taquaral district (rose
quartz crystals) **11**:377–379p

Lavra da Ilha, near Taquaral: **20**:(394); rose
19:120n; rose quartz; some crystals **4**:212–
213p

Lavra Pedra Alta, Conselheiro Pena **19**:335n,
20:394

Locality not specified; prob. Minas Gerais
(hollow boxlike structures) **10**:123

Matagrande farm **6**:286n

Montezuma mine (amethyst; 3-faced termi-
nations; turns green on heating) **8**:385–
386p

Morro Velho gold mine (some euhedral pyr-
rhotite in) **4**:228p

Ouro Preto region (topaz in) **20**:228

Pedra Alta mine, Baxio (smoky, parallel
groups) **21**:(487)

Pitorra mine, near Galiléia: **21**:256n, **21**:409–
412p; rose quartz, crystals **21**:97n

Regal mine, near Araçuaí (rose quartz, crys-
tals) **21**:97n

Salinas (smoky) **19**:335n

Santa Rosa (“cockscorn” clusters) **18**:365n

Sapucaia mine (smoky, with rose crystals in
parallel) **14**:(174p)

Trino mine, Ouro Preto region (topaz, fluid
inclusions) **2**:12n

Urubu pegmatite, Araçuaí area (to 1 m; milky
quartz emits H₂S when broken) **12**:75

Virgem da Lapa pegmatites **13**:27

Zé Pinto mine, Conselheiro Pena (smoky, to
20 cm) **21**:408n

Paraíba

Alto Benedito pegmatite (milky crystals to
15 cm) **22**:185n

Rio Grande do Sul

Irai (large amethyst plates, geodes) **25**:60

Localities not specified: **20**:(394); amethyst,
geodes **19**:(335); rutile epitaxial on hema-
tite, in **18**:143p

Planalto (flower-like clusters) **21**:(488)

Various localities (enormous amethyst
geodes) **23**:282

Rose quartz, artificially color-intensified **18**:375

Bulgaria

Madan orefield (some amethyst) **22**:444

Ninth of September mine **20**:(394)

Canada

British Columbia

Bluebell mine, Riondel (crystals to 30 cm)
8:34–35p, **8**:36

Foley Mountain, Hope (Japan twins, one
sceptered) **19**:333n

Mt. Washington mine, Vancouver Island
15:90n

Rock Candy mine, near Grand Forks (drusy,
some coating octahedral fluorite) **12**:100–
101p

Northwest Territories

Nanisivik mine: **21**:533p; smoky, overgrow-
ing pyrite after twinned marcasite **18**:362;
smoky, to 6 cm **21**:485n

Port Radium **20**:204

Nova Scotia

Boylston (near) (clear; orange) **23**:428

Ontario

Arnprior (micro pseudocubic ferruginous)
4:184

Beaver mine, near Stanley (amethyst) **21**:485n

Diamond Willow mine, Thunder Bay area:
malachite sprays on **13**:107n; some with
hematite inclusions **13**:67–70p

Greely (smoky) **20**:391

Long Lake mine, near Parham (dipyramidal)
13:84

Lyndhurst mine, near Black Rapids **13**:83–
84p

Mamainse Point mines (brilliant drusy in odd
shapes) **13**:107n

Marble Rock, Leeds County **13**:83n

Rosspport (near) (micro smoky) **13**:107

Thunder Bay area (micro crystals, smoky,
amethystine) **13**:107

Québec

Drummondville area (some amethyst) **19**:(334)

Francon quarry (pear-shaped aggregates)
9:105

- Mt. St-Hilaire: crystals to 15 cm, colorless, grey, smoky; some with fl. zone **21:330**; micro Japan-law twin **23:429n**; smoky **13:(243)**
 Poudrette quarry (smoky) **19:334n**
 Sherbrooke area roadcuts: **20:217–219p,c**; chamosite in **20:217–219p**
 Windsor, Sherbrooke area **18:363n**
 Yukon
 Rapid Creek/Big Fish River area (some tapered trigonal) **23:Y30p,d,c**
- China**
 Hunan, Guizhou, or Kweichow province (cinabar in) **19:114p, 19:115n**
 Leiyang, Hunan **20:394**
 Szechuan (smoky, gwindel) **20:69n, 20:394**
- Colombia**
 Alto de Cruzes, Santander (some Japan twins) **17:210p**
- Czech Republic (formerly Czechoslovakia)**
 Dolní Bory (smoky) **19:(10)**
- England**
 Cornwall
 Botallack district (various habits) **24:281**
 Geevor mine **22:390n**
 Wheal Jane (amethyst) **20:395**
 Derby
 Calton Hill (bipyramidal) **14:16–17**
 Durham
 Boltsburn mine, Weardale (drusy; some bipyramidal to 14 mm) **13:13–15p,c,q**
- Finland**
 Sodankylä, Lappi (amethyst; major find) **23:433**
- France**
 Font Sante mine, Var (micro with Dauphiné and other twinning; chalcedony after some) **8:309n, 8:311p**
 Mont Blanc (smoky, gwindel) **19:113n**
 Rémuzat, Drôme (“Mirabeau diamonds”) **10:122**
- France/Switzerland**
 Mont Blanc region (smoky, with pink fluorite) **9:132**
- Germany**
 Bavaria
 Bayerland mine **19:124n**
 Fichtelsee (smoky) **19:124n**
 Kirchenlamitz (psilomelane coated) **19:124n**
 Rheinland-Pfalz
 Bellerberg (high quartz needles) **18:145p, 18:146c**
 Ems district (crystals to 2 cm) **15:342**
 Laacher See area, Eifel district: hexagonal “high” quartz **8:316d**; tessin **10:94p**
- Greece**
 Dráma (amethyst) **19:337n**
 Kamaréza mine, Laurium (micro amethyst) **7:122n**
 Koutalas, Seriphos (opaque green) **19:124n**
 Mega Xhorio, Seriphos: green **19:337n**; green doubly terminated **18:366n**; hedenbergite in **20:395**
 Seriphos (spindle-shaped to 20 cm, green due to hedenbergite) **22:305–307p**
- Greenland**
 Kûngnât (Kuunaat) complex (smoky, to 10 cm; some amethyst) **24:G47**
 Narssárssuk (clear to 9 cm) **5:123**
 Scaphites Ravine (in fossil cavities) **24:52**
- Hungary**
 Locality not specified (amethyst) **1:(86)**
- Iceland**
 Breiðhdalur-Berufjörður area **12:24n**
 Helgustadhanáma (Schneeberg twins) **12:24p**
- India**
 Hyderabad area, Andhra Pradesh (amethyst with goethite inclusions) **21:489n**
 Sangammer, Maharashtra (amethyst, geodes) **23:434n**
- Indonesia**
 Cremas (near), West Java (β -quartz to 2.5 cm) **21:489n**
- Italy**
 Bologna
 Ca’ de Ladri (rhombohedral) **18:141c, 18:144p**
 Castellaccio (bipyramidal) **18:141c, 18:144p**
 Lombardy
 Dosso dei Cristalli, Val Malenco (clear crystals to 30 cm) **3:122**
 Val Formazza (needle quartz) **9:57–58**
 Sardinia
 Osilo: amethyst **23:277**; amethyst with fluid inclusions **18:141–142p**
 Tuscany
 Boccheggiano and Niccioleta mines (elongated amethyst) **10:290p**
 Carrara region **10:122, 18:279–282h,c,p,d, 22:225**
 Fantiscritti quarry **18:281d**
 Grotta d’Oggi, Elba (smoky) **16:361**
 La Facciata quarry **18:281p**
 Monte Capanne, Elba (acicular tourmaline in some) **16:361**
 Pereta mine **15:24p**
 Portocciolo, Elba (green due to hedenbergite) **22:305n**
 Valle D’Aosta
 Brusson (multiple Japan twins) **7:34n**
- Japan**
 Hirukawa, Eno County (smoky) **20:388p, 20:396**
 Narushima island, Nagasaki (Japan-law twins to 2 cm) **23:435**
 Oppu mine, Aomori (tessin habit) **9:368n**
 Tomii mine, Tochigi (amethyst to 5 cm) **9:368**
- Korea**
 Onyang, Sang Buck Do (amethyst, scepter) **19:120n**
- Macedonia (formerly Yugoslavia)**
 Allchar (micro crystals) **24:443**
- Madagascar**
 Ambatofinandrahana (with sharp chlorite (?) phantoms) **25:60**
 Anjanabonoina (smoky, rutiled, etc.) **20:197**
 Tambobolehibé **22:390n**
- Malawi**
 Mchinji (west of) (reverse scepter) **21:489n**
 Mt. Malosa region (some smoky; crystals to 35 cm) **25:33p, 25:35c,p**
- Mexico**
 Chihuahua
 Charcas (Japan twins) **10:141p**
 Chihuahua City (near) (amethyst, mult. terminations) **22:391n**
 Fresnilla Mining Co., Naica (long, thin amethyst) **18:148**
 Naica: amethyst on galena **18:244n**; chloritic **19:210n, 19:214p**
 Sierra Gallego area, east of Laguna Encinillas (chalcedony geodes) **10:207–212p**
 Guerrero
 Amatitlán (amethyst to 15 cm) **23:435n**
 Locality not specified: amethyst, Japan twin **17:405–406p,c**; “rabbit ear” group **16:305p**; some moveable bubbles **14:57**
 Mexico state (amethyst) **19:115n**
 Taxco: **18:155n**; silver on pyrite on quartz; fake **19:210, 19:213p**
 Locality uncertain: **20:396**; identical to “herkimer diamonds” **19:210n**
- Sonora
 Cananea **19:337n**
- Veracruz
 Las Vigas (scepters) **18:429n**
 Veracruz **17:209p, 19:116n**
- Mongolia**
 Bain Mod, Hentiy district (with cassiterite) **13:179n**
- Moon**
 Localities not specified **1:21**
- Morocco**
 Atlas Mountains near Marrakesh (goethite needles in) **18:143p**
 El Hamman (after anhydrite) **20:(396)**
 Eureka Valley, south of Marakech (geodes with 1.5 cm goethite crystals) **15:177n**
 Tichka (amethyst; ferruginous) **19:337n**
- Namibia**
 Onganja mine (pale green prisms not quartz; confirmed as apatite) **6:214–215**
 Tsumeb: amethyst **13:149p**; some amethyst **8:T30n, 8:T63p, 8:T83p**
- Netherlands**
 Limburg province (southern) **18:432n**
- New Zealand**
 Tui mine (to 12 cm with moving bubbles; green massive; blue crystalline) **6:26–27**
- Nigeria**
 Bui, Borno State (smoky; scepter and fenster) **20:397**
 Darazo, Bauchi State (amethyst) **20:397**
- Norway**
 Drammen area, Buskerud (dark smoky) **22:51n**
 Hardangervidda, Hordaland/Buskerud (smoky, rutiled) **20:(397)**
 Hattfjeldal, Nordland (clear Dauphiné twinned to 15 cm) **23:436n**
 Kirtiansund, south of Åheim (amethyst, 2.5 cm scepters) **22:391n**
 Kristiansund (near), Møre og Romsdal (smoky, amethystine) **23:436n**
 Matskorhae, Hordaland (clear crystals to 15 cm) **8:268–270p,c**
 Namdalen, Nord-Trøndelag (red; odd smoky) **23:436n**
 Tinnoset (near), Telemark (large white doubly-terminated) **23:436n**
 Valdres, Oppland (clear) **24:393n**
- Peru**
 Huallapon mine, Ancash (Japan twins) **9:36n**
- Poland**
 Opatowski (flint) **20:398**
- Portugal**
 Panasqueira mine (30 cm clear) **2:75**
- Romania**
 Baia Mare, Maramureş district (formerly Nagybánya) (amethyst) **13:(371)**
 Cavnic (Kapnic): amethyst, on rhodochrosite **20:72n**; white “fenster” habit **23:269n**
 Maramureş district **13:371–374**
- Russia (formerly USSR)**
 Dal’negorsk (pinkish needles) **23:268n**
 Dodo mine, Polar Urals (smoky, gwindel habit) **25:61, 25:63p**
 Scherlovaya, Transbaikalia (smoky) **23:438n, 25:50n**
 Sverdlovsk (amethyst) **9:367n**
- Serbia (formerly Yugoslavia)**
 Trepča: needles and scepters **4:61p**; steep rhombohedral **18:145p, 18:146c**
- South Africa**
 Cape Province
 Jan Coetzee mine (crystals to 1.8 m) **24:39–40p**
 Kalahari manganese field **9:149n, 22:289–290**

- Langdon mine (drusy, after calcite; pseudo-cubic; also amethyst) **22:289–290**
Mamatwan mine (drusy, after calcite) **22:289n**
Nababeep West mine **18:(193)**
Wessels mine (sugilite micros and phantoms in) **22:290, 22:294p**
- Transvaal**
Messina mine: **18:(368)**; ajoite, papagoite in **18:(244), 22:194–195p**; euhedral to 50 cm, many zoned, numerous inclusions **22:198–199**; hematite phantoms in **19:116n**
Palabora mine **22:260**
- Spain**
Bera Bes, Asturias (resembling “Herkimer diamonds”) **11:30**
Cavaria-Berbes district (floaters with moving-bubble and hydrocarbon inclusions) **23:76**
Emilia mine, Murcia (amethyst) **24:237n**
Hiendelaencina district, Guadalajara (crystals to 2 cm) **23:248**
La Collada **23:73n**
Los Pajaritos mine, Murcia (amethyst; with oriented 2nd generation growth) **25:222n**
Orihuela, Murcia (stubby bluish) **21:97n**
- Swaziland**
Devils Reef (extension of Barberton field, South Africa) (with various inclusions) **23:218**
- Switzerland**
Cavradi, Gotthard region (smoky): **19:338n**; see also Quartz—Switzerland—Val Cavradi
Göscheneralp region, Uri (clear, with pink fluorite) **9:132**
Grimsel Pass, Bern/Valais (smoky) **19:338n**
Grimsel region, Ticino (skeletal, amethyst tips) **9:316**
Passo Lucomagno, Ticino (Tessin habit) **18:144–146p**
Pez Ault, Graubünden (smoky “gwindels”) **8:59n**
St. Gotthard, Uri (smoky) **15:146c**
Scarcity of amethyst in **9:316**
Tiefengletscher, Uri (6 m x 4 m pocket, smoky crystals to 95 cm, many doubly terminated, in 1868) **15:253–255p**
Val Bedretto, Ticino: Nadelquarz habit **23:280**; needle quartz **22:393n**; tessin **9:57–58**; Tessin habit **18:(159)**; tessin, Japan twin **10:122**
Val Cavradi, Graubünden: to 15 cm **23:436n**; see also Quartz—Switzerland—Cavradi
Val d’Jittiez, Valais (fenster) **10:122**
Zinggenstock, Bern/Valais (10 m pocket, 50 metric tons of smoky crystals, in 1719) **15:255**
- Tanzania**
Moro Goro (amethyst, zoned) **21:256n, 21:258p**
- United States**
- Alaska**
Jumbo mine (near), Prince of Wales Island (Japan twins) **8:6n, 8:10p**
Kuiu Island (crystal stalactites, some with stilbite) **18:359n**
Petersburg (chloritic) **19:331n**
Rocky Pass, near Kuiu and Kupreanof islands (“fingers” with stilbite) **24:381n**
Sitka (island near) (stalactitic, with stilbite, heulandite) **19:331n**
- Alabama**
Lowe farm, Cherokee County (amethyst) **21:209**
- Arizona**
Agua Fria River, Maricopa County (after anhydrite) **25:382n**
Ash Creek, Pinal County (in spessartine; some poss. after tridymite) **23:487–489p,q**
Bisbee district **12:310**
Blue Ball mine, Gila County **20:450**
Campbell shaft, Bisbee district (milky, to 7.5 cm) **12:310**
Cole shaft, Bisbee district (amethyst to 5 mm) **12:310**
Crystal Hill (like “Herkimer diamonds”) **19:(331)**
Duquesne (near), Santa Cruz County (Japan twins) **11:192p**
Fat Jack mine, Yavapai County: amethyst-tipped scepters to 15 cm; some Japan-law twins **22:22p, 22:27**; scepter **18:(359)**
Flux mine, Santa Cruz County (amethyst; reverse scepter) **18:141c, 18:142p, 18:144p**
Four Peaks amethyst deposit, Maricopa/Gila counties (smoky, amethyst) **7:72–77p**
Four Peaks mine, Maricopa County (amethyst, with “c” face) **19:(331)**
Galiuro Mountains, Graham County (elbaite in Japan twins) **19:(331)**
Holland mine, Santa Cruz County (milky crystals over 30 cm, some multiple Japan twins) **2:185–186**
Iron Cap mine, Graham County (pseudo-bipyramidal) **19:85p**
J. C. Holmes claim, Santa Cruz County **17:115n**
Junction shaft, Bisbee district (amethyst to 1.5 cm) **12:310, 12:316p**
Lowell shaft, Bisbee district (replacing natrolite) **12:309**
Magma mine **14:78**
Mammoth mine, Pinal County: amethyst, Dauphiné twins **24:381n**; casts after cubic galena **11:160**
New Cornelia mine, Pima County (euhedral to 15 cm) **14:297**
New Water Mountains, La Paz County (scepter) **20:(387)**
Ray mine **14:320**
Red Cloud mine, La Paz County (amethystine) **11:149, 11:150p**
Scepter Hill, Santa Cruz County **23:280**
79 mine **3:254–255**
Veta Grande claims, La Paz County: **22:381n**; curved crystals **10:35**
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- QUENSTEDTITE**
United States
 California
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- "QUETENITE"**
 See *Botryogen*

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RAGUINITE

Macedonia (formerly Yugoslavia)

Allchar **8**:(390), **9**:(113); fibrous **24**:443h

RAITE

Canada

Québec

Mt. St-Hilaire: **13**:245–246; minute fibrous **21**:331

RAJITE

United States

New Mexico

Lone Pine mine, Catron County: **20**:10; announced **10**:301h,q

RALSTONITE

Cleaning iron oxides from **15**:103

Greenland

Ivigut: **2**:27–28, **18**:357; crystals to 1 cm **24**:G33p, **24**:G35h

Narssárssuk **18**:357n

Norway

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RAMEAUTE

France

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RAMMELSBERGITE

Canada

Northwest Territories

Port Radium (safflorite-rammelsbergite) **20**:(207)

Québec

Orford mine (id as maucherite) **25**:340

Germany

Halle

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Mexico

Chihuahua

Batopilas district **17**:(79)

Norway

Kongsberg **17**:(35)

Scotland

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Leadhills-Wanlockhead district **12**:(250)

United States

Arizona

Southwest mine, Bisbee (micro crystals) **24**:433n

Michigan

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New Jersey

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“RAMSAYITE”

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RAMSBECKITE

United States

Pennsylvania

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Identifying **4**:289

Mexico

Baja California

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Chihuahua

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Cape Province

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United States

Arizona

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Mammoth mine, Pinal County **11**:170

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New Mexico

Lake Valley, Sierra County: **20**:10; after groutite **14**:110d,c, **14**:112

RANCIEITE

France

Mont Mirat, Lozère **8**:(517)

Rancie, Ariège **9**:(113)

RANSOMITE

United States

Arizona

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RANUNCULITE

Zaire

Kobokobo, Kivu (announced) **11**:112h,q

RAPIDCREEKITE

Canada

Yukon Territory

Rapid Creek: **17**:(340); 2 mm acicular sprays **23**:Y38

RASPITE

Australia

New South Wales

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Broken Hill Proprietary mine **19**:(363)

RASVUMITE

Canada

Québec

Mt. St-Hilaire (crackled coatings) **21**:331

Poudrette quarry **20**:393

United States

New Mexico

Point of Rocks quarry, Colfax County **15**:154

RATHITE

Switzerland

Lengenbach quarry **8**:276q, **8**:279q, **25**:(140)

RAUENTHALITE

France

Gabe Gottes mine, Ste. Marie-aux-Mines **8**:(390) **8**:(391)

Ste. Marie-aux-Mines, Alsace region **19**:(256)

United States

Michigan

Mohawk mine, Keweenaw County **23**:M67n

RAUVITE

United States

Arizona

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Utah

Grand County **9**:(113)

REALGAR

Yellow powdery alteration product is not orpiment **8**:329

Canada

British Columbia

Mt. Washington mine, Vancouver Island **15**:89n

China

Guizhou (3 cm crystals) **21**:175p

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Namibia

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Romania

Cavnic **15**:167p

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United States

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Macedonia (formerly Yugoslavia)

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Ordered mixture of smectite and mica

Brazil

Bahia

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Arkansas

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Western Australia

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California

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REINERITE

Namibia

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RENIERITE

Namibia

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Québec

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Bulgaria

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British Columbia

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Cape Province

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Queensland

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Arizona

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New Mexico

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Greenland

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Malawi

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Pennsylvania

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- New Jersey
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- New Mexico
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- Utah
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- England**
Cornwall
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- United States**
Maine
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Newry area (botryoidal; pseudo-hexagonal, pseudo-orthorhombic) **6:199p, 6:200**
South Dakota
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- ROSCOELITE**
- Canada**
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- Gabon**
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Bou Azzer: crystals to 13 mm **9:72p**; roselite-beta micro crystals **9:72**
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- ROSEMARYITE**
- United States**
South Dakota
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- Canada**
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- United States**
New Mexico
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- United States**
California
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North Carolina
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- United States**
California
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- Zaire**
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- Canada**
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- ROUVILLEITE**
- Canada**
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- ROWLANDITE-(Y)**
- United States**
Texas
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- Austria**
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- Canada**
British Columbia
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- Italy**
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- Macedonia (formerly Yugoslavia)**
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Arizona
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- Species status uncertain **13:392h,q**
- Russia (formerly USSR)**
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- "RUBY"**
- See Corundum*
- RUIZITE**
- South Africa**
Cape Province
Wessels mine: crystals to 4 mm in hydroxy-apophyllite **22:292**; micro blades **9:146q, 9:149–150h,p**
- United States**
Arizona
Christmas mine, Gila County **9:(113), 9:(114), 9:149h, 11:261, 11:262p**
Pinal County **9:(113)**
- Zaire**
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- RUSSELLITE**
- Canada**
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Nug-4 claim, Nahani River area **17:(340)**
- RUSSIA**
- Formerly USSR. See also other former Soviet states, listed separately*
- Achtarand (Achtaragda) River, Siberia **18:159s,h**
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Afrikanda massif, Kola Peninsula **23:280s**
Alabaschka, Ural Mountains **18:425–426s**
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Asbest, Ekaterinburg, Central Urals **24:389s**
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Berezov, Urals: **5:41**; poss. locality **25:141s**
Beriozava, near Sverdlovsk, Middle Urals **25:218s**
Berkutchaya Sara Kreis, Zlatoust, Ural Mountains **11:15s**
Bielo More, Kola Peninsula **25:46s**
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Cheguyva (Czegujewa), near Tetyukhe (Tetjuche), Siberia **18:432s**
Chelyabinsk, Ilmen, Ural Mountains **23:494s**
Chemyshevsk, Yakutsk, Siberia **22:459s**
Chernyshevsk (near) **18:432s**
Chibiny (Chibine), Kola Peninsula (see Khibiny)
Chukotka, Magadan Oblast, eastern Siberia **25:46s, 25:218s**
Chukotka Peninsula, Magadan Oblast **23:280s**
Collecting/museum trip to Moscow, St. Petersburg, Irkutsk, Kola Peninsula **24:481–488**
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Dal'negorsk (incl. Tetiuhe, Tetiune, Tetyukhe mine) Primorsky Krai: **9:367s, 20:485s, 22:221s, 22:225s, 23:268s, 23:437s, 23:438s, 24:234h,s, 24:388–389s, 25:58s, 25:140**; see also Russia—Nicolai mine
Danburitovnaya mine, Malchan Range, Central Transbaikalia **23:433s**
Dashkesan, Caucasus **20:74s**
Dauria, Nerchinsk district, Chitinskaya Oblast **6:38s**
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Dzhaldindin deposit, Little Khingan Ridge, Far Eastern Siberia **4:27s**
Elbroska, Caucasus **23:494s**
Frolobsky mine, Tourinsk, Bogoslovsky district, North Urals **24:226s**
Gal-Khaya, Yakutia **5:290s**
Iakouti, Siberia **20:398s**
Iliutin tin mine, Iliutin, Chukotka region, Magadan Oblast **25:381s**
Ilmen Mountains, Ural Mountains **16:463–464s, 25:50s**

- Indigirki River (upper), Yakutia **3**:187s
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Iss River, Perm **19**:38s
Iultin, northern Siberia **24**:389s
Karabach, Ural Mountains **23**:433s
Karabash deposit, Soimon Valley, Ural Mountains **13**:392s, **13**:398s
Kashkanar, near Zlatoust, Chelyabinsk Oblast **24**:389s
Kejvy, Kola Peninsula **19**:37s
Keyvy, Kola Peninsula **22**:225s
Khibiny Massif, Kola Peninsula **23**:280s, **23**:433s, **23**:437s
Kirghese Steppes, Siberia **9**:367s
Klick **25**:46s
Kola Peninsula: **23**:280h, **24**:389s, **25**:218s; collecting trip **24**:485–488
Konder, near Nelkan, Ajanomaisky region, Khabarovsk Krai **24**:227s, **24**:389h
Korogoch River, Transbaikalia **13**:393s
Kowcha, Ural Mountains **18**:368n
Krasnoi Tschukoi, Baikai **23**:268s, **23**:494s
Lake Baikal district (western), Siberia **1**:58–64h,g,m,p
Lena River district, Yakutsk **18**:91s, **22**:216s
Lovozero Massif, Kola Peninsula **17**:341s, **22**:393s, **23**:280s
Malischevo, Ural Mountains **25**:47s, **25**:218s
Malkhane pegmatite field, Chita region, Transbaikalia **24**:389s
Merek, Khabarovsk Krai **23**:280s, **23**:433s
Miask **9**:367s, **20**:352s
Mikhaylovskoye mine, Malkhane pegmatite field, near Kranii Chikoy, Chita Oblast **25**:381s
Mir diamond pipe, Yakutsk, Siberia **9**:367s, **17**:341s, **18**:244s, **20**:145s
Moscow (museums) **24**:481–482
Mt. Karnasurt, Kola Peninsula **23**:433s
Mt. Nepkha, Lovozero Massif, Kola Peninsula **14**:39s
Mt. Ploskaja, Kola Peninsula **24**:389s
Mun-Hambo, Hanty-Mausiiky district, Polar Urals **24**:389s
Mursinska, Ural Mountains **21**:98s, **24**:389s
Narodnaya (60 km south of), northern Urals **23**:438s
Nertschin, Transbaikalia **14**:179s
Nicolai mine, Dal'negorsk, Primorskiy Krai: **25**:47s; see also Russia—Dal'negorsk
Nidym, Tura region, Siberia **24**:226s
Nikolayev mine (Nicolai shaft), Tetjhe, Dal'negorsk, Primorsky Krai **22**:216s, **23**:495h
Noril'sk (Tagil Noril'sk), Krasnoyarski Krai **23**:433s, **24**:226s
Oktyabr deposit, Talnakh area **13**:398s
Paiva (Pouyva, Puiva), near Saranpaul, Tyumen Oblast, Polar Urals **23**:280, **24**:226s, **25**:61s
Pereval mine, southwest of Slyudyanka, near Lake Baikal, Siberia **1**:60m, **1**:64g, **21**:492s
Perm, Ural Mountains **23**:494s
Pitkäranta district, Karelia **13**:238s, **22**:343–347s
Pouyva (see Paiva)
Primorski Krai **18**:432s
Puiva, northern Urals (see Paiva)
Puj Va (Paiva?), Samgorodoh, Ural Mountains **24**:52s
St. Petersburg (museums) **24**:484–485
Sanarka, Urals **21**:98s
Saranay, Polar Urals **24**:389s
Saranovskaya mine, Ural Mountains **23**:433s
Saranpaul, Ural Mountains **25**:47s
Saranay, Ural Mountains **21**:492s, **25**:218s
Sarnapaul, Urals **24**:389s
Scherlovaya Mountain, Adun-Tschilon, Transbaikalia **25**:61s
Scherlovaya (Scherlowwaja), Adun-Chelon, Transbaikalia **23**:438s
Sherlova Gora, Chita region **25**:50s
Siberia (localities not specified) **13**:367s, **18**:89–90s, **19**:338s
Slyvansk salt cupola, southeast Dneprovsk-Donets Basin **9**:254s
Slyudyanka mine, near Lake Baikal, Siberia **1**:58–61h,g,m,p, **24**:236s, **24**:483p, **24**:484
Smeinorgorski (Schlagenberg), Altai region **16**:55s
Sokolovska-Sarbaik, Ural Mountains **23**:437s
Solnetchnaya mine, Malchan Range, Central Transbaikalia **23**:433s
Sverdlovsk, Ural Mountains **9**:367s, **20**:75, **23**:280s
Tagil Noril'sk (see Noril'sk)
Takovaya (Takowaja), Ural Mountains **18**:432s
Talnakh copper deposit, Noril'sk, Krasnoyarski Krai **13**:392s, **21**:97s, **21**:492s, **22**:53s, **23**:277, **25**:339s
Tchukotka (see Chukotka)
Tengerkhin tin mine, Chukotka **25**:47s, **25**:140
Tetiue, Tetjhe, Tetiune, Tetyukhe (see Dal'negorsk)
Tokoyawa, Ural Mountains **11**:317s
Tunguska, Tura, central Siberia **23**:433s
Udacha, Khabarovsk region, Chukotka Peninsula **24**:389
Ural Mountains (localities not specified): **18**:409s, **19**:37s, **20**:353s; central Urals **13**:391s
Veshnovogorsk (Cherry Mountain) mine, Middle Ural Mountains, Chelyabinsk Oblast: **24**:52s, **24**:226s, **24**:234; closed **25**:61h
Vilui (Wilui) River district, near Chernyshevsk, Siberia **18**:432s
Vishnevye Mountains, Central Urals **6**:276–277s
Werbljuge, Urals **9**:133s
West Kejvy, Kola Peninsula **15**:45s
Wilui River (see Vilui River)
Zelenovskaya mine, near Zlatoust, Chelyabinsk Oblast **24**:52s
- RUTHERFORDINE**
- France**
Rabéjac quarry, Hérault (masses; fibrous) **23**:433n
- Zaire**
Musonoi mine **20**:284p
Shinkolobwe mine **8**:(390), **20**:284
- RUTILE**
- Australia**
South Australia
Moonta mines **19**:(412)
- Austria**
Grieswies area, Salzburg **13**:173n
Modriach, Carinthia/Styria (in quartz) **17**:(106)
Sausalpe, Carinthia (in quartz) **17**:(106)
Schafkar, Salzburg (sagenitic, in quartz) **13**:173n
Stubachtal, Salzburg (reticulated, “sagenite”) **17**:106n, **17**:109p
- Brazil**
Bahia
Brumado district **9**:205
Ibitiara (rutilated quartz): **19**:335n; golden, oriented on ilmenite **21**:96–97p; “ilmenite” id as hematite **21**:501
Minas Gerais
Córrego Bom Sucesso, near Serro (micro complex twins) **23**:472n
Fazenda Guariba: **17**:193; after anatase **17**:194p
Itabira (rutilated quartz) **20**:(394)
Ouro Preto region **20**:228p
Sacramento **2**:12n
Tapira **2**:12n
- Rio Grande do Sul (epitaxial on hematite, in quartz) **18**:143p
- Canada**
Québec
Mt. St-Hilaire: **13**:(244); blocky, prismatic to 1.2 cm; reticulated **21**:333p
- England**
Cornwall
Lanterdan quarry **20**:395
- Germany**
Rheinland-Pfalz
Laacher See area, Eifel district (fibers) **8**:318n
- Italy**
Tuscany
Buca della Vena mine **17**:266n
Carrara region **18**:282–283
Crestola and Crestola Bassa quarries **18**:282p
Fonte del Prete, Elba **16**:361
Gioia quarry **18**:282–283p
Grotta del Guerrino, Elba **16**:(358)
- Madagascar**
Anjanabonoina (rutilated quartz) **20**:197
- Malawi**
Mt. Malosa region (in quartz; tentative id) **25**:38
- Mexico**
San Luis Potosí (locality not specified) (micro ring in topaz) **1**:110–111p
- Moon**
Minute inclusions **1**:22
- Norway**
Kongsli, Oppland (epitaxial on hematite) **24**:393n
Matskorhae, Hordaland (15 mm acicular) **8**:270
- Switzerland**
Cavradischlucht, St. Gotthard region (on tabular hematite) **9**:132
Lengenbach quarry (micro tabular) **8**:280p
- Tajikistan (formerly USSR)**
Pamir Mountains **24**:389n
- United States**
Arkansas
Magnet Cove, Hot Spring County (cyclical “eightling” twins to 2.5 cm) **3**:86p
Arizona
Bisbee district **12**:311n
New Cornelia mine, Pima County (prismatic; some sagenitic) **14**:297
California
Cargo Muchaco Mountains, Imperial County (euhedral red to 2 mm) **2**:225
Champion mine, Mono County (crystals to 6 cm) **8**:480, **8**:482–483p,d
Jensen quarry, Riverside County (prisms, cyclic twins) **15**:289n
Connecticut
Watertown, Litchfield County (ruby-red; “garnets” id as) **1**:88–90p,c,d
Georgia
Graves Mountain: **16**:452–457c,p,d; crystals to 8 cm **25**:214
Idaho
Sawtooth batholith (minute crystals) **24**:197
Maryland
Howard-Montgomery quarry, Howard County (micro prismatic) **25**:54
Massachusetts
Chester emery mines (needles) **9**:240, **9**:241p
Montana
Snowbird mine, Mineral County (minute acicular) **8**:85
New Jersey
Buckwheat open pit, Franklin (micro acicular, impaling other crystals) **14**:186–192p
Franklin **16**:483–484p,q
Sterling Hill (prismatic to 1 cm) **21**:426

GENERAL INDEX

New Mexico

Harding mine (minute needles) **8**:124n

North Carolina

Boiling Springs (east of), Cleveland County:
2:85; reticulated, acicular to 3 cm **1**:119

Brook's Farm, Cleveland County **2**:85

Double Shoals (near), Cleveland County (red,
in quartz) **2**:129

Hiddenite, Alexander County **19**:117n

Stratford (west of), Alleghany County **2**:43n

Oregon

Summit Rock, Douglas County (id as zircon)
16:139

Wisconsin

Rib Mountain, Marathon County ("sagenite,"
to 10 mm) **12**:95p

Wales

Gwynedd

Preteg (micro acicular; some sagenitic after
brookite) **23**:397–398

RWANDA

Gifurwe mine **12**:82–85s

Nyakabingu **12**:83s, **12**:85s

RYNERSONITE

United States

California

Himalaya dike system, San Diego County
(massive) **8**:467p, **8**:468