

GENERAL INDEX

The following abbreviations appear after page numbers.

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

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

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

- TZ Topaz (vol. 26, no. 1)
- MB Mineral Books (vol. 26, no. 4)
- P Mines and Minerals of Peru (vol. 28, no. 4)
- SH Sweet Home Mine (vol. 29, no. 4)
- OJ Mexico II—Ojuela mine (vol. 34, no. 5)
- LL Mexico III—Los Lamentos and others (vol. 34, no. 6)
- GU Mexico IV—Guerrero and others (vol. 35, no. 6)

ACANTHITE

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Lower Austria

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Colquechaca: superb 6.2-cm specimen **32:462p**

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Himmelsfust mine, Freiberg: specimen from Ferguson collection **31:431p**

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Acanthite with Ag mineralization in Guanajuato mines **30:84–85**

Rayas (Reyes) mine, Guanajuato: coating polybasite crystals **26:496n**; pseudos after pyrargyrite **26:582n**; thumbnail clusters of brilliant cubes **30:217n**

Sirena mine, Guanajuato: vivid black 5-mm cubes on matrix **26:582n**

Torres mine, Guanajuato: lustrous crystals to 3 cm with apophyllite **32:247p, 248n**

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Pelican mine, Clear Creek County: sharp cubes to 1.25 cm in cluster **32:53**

Montana

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Piemonte

Val d'Ala: "byssolite" with pericline specimens **28:412n**

Russia

Dal'negorsk, Primorskiy Krai: in skarns **32:8**

Dodo deposit, Subpolar Urals: acicular crystals included in quartz, as nests **30:433**

Puiva deposit, Subpolar Urals: acicular crystals included in quartz, as nests **30:456**

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Nueva Vizcaya mine, Burguillos del Cerro,

Badajoz: crystals to 2 cm **33:491q**

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United States

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Austria

Lower Austria

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Alto Ligonha area: in pegmatites **31:468**
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Saranovskii mine, Saranui, Urals: purple chromian crystals to 4 mm **26:493n**; purple chromian crystals in 10-cm group **31:391p**; sharp purple chromian crystals to 5 mm in solid seam linings **35:144n**

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AMICITE

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Kukisvumchorr, Chibiny, Kola Peninsula: 2-mm intergrown crystals **26:493n**

AMMONIOJAROSITE

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Tennessee

Alum Cave Bluff, Sevier County: aggregates of microcrystals **31:168, 169p**

AMPHIBOLE GROUP

See also names of individual species

Revision of amphibole classification and nomenclature in 1995 **29:169–174**

Canada

Quebec

Saint-Amable sill: tufts of acicular microcrystals (species uncertain) **29:92–93**

ANALCIME

Canada

Quebec

Mt. Saint-Hilaire: perfect trapezohedrons to 3.5 cm **26:147n, 26:(491)**; lustrous bluish white trapezohedrons, some hollow **30:216n**; crystals to 10 cm **32:403**

Saint-Amable sill: crude crystals to 5 cm, colorless trapezohedrons to 1 cm **29:93**

United States

Michigan

Caledonia mine, Ontonagan County: with copper, silver, calcite **26:481–482n**

New Jersey

Millington quarry, Somerset County: trapezohedrons to 3 cm **31:404–405p**

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ANAPAITE

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ANATASE

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Zagradski Potok near Busovača: microcrystals with rutile **27:341, 342p**

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Cuiaba district, Gouveia: loose groups of parallel crystals to 3.5 cm, some coated by bronze rutile **35:144n**

Jabotica, Tubas: loose 1-cm crystals with bulging centers **32:497n**

Jaboticatubas: brown crystals with bulging centers to 1.9 cm **33:84p**

Lavrinha: dark brown bipyramids to 1 cm on quartz **28:417n**

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British Columbia

Silvana mine, Sandon: crystals less than 1 mm **27:434, 436p**

Quebec

Saint-Amable sill: microcrystals of various forms, colors **29:93**

France

La Lauziere: sandy brown 6-mm crystals in parallel growth **33:251p**

La Tinée, Parc national du Mercantour: microcrystals with brookite, rutile **26:155n**

Trimouns quarry, Luzenac, Ariège: rare crystals to 1 mm in dolomite **35:232**

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Mte. Bregaceto, Genova: good crystals with brookite **31:510n**

Val Graveglia: crystals to 1 mm and in radiolarites **32:357**

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Bagni di Vinadio area: amber-colored crystals **34:201**

Norway

Hardangervidda: blue-black bipyramids on and in quartz **27:217n**; sharp bipyramids to 2.5 cm on albite **29:213,216n**

Kongsberg mines: red and orange microcrystals **32:196**

Valdres: 3–8 mm crystals **26:497n**; doubly terminated crystals to 2 cm **28:136n**; sharp crystals to 2.5 cm on brecciated matrix **30:150–151n**; sharp, lustrous, fat blue-black bipyramids to 3 cm **30:215p, 218n; 32:No. 4 (cover)**

Valdres vein, Hardangervidda: single crystals to 2 cm with albite **28:416n**

Russia

Nikolaevskiy mine, Dal'negorsk, Primorskiy Krai: rare crystals **32:10**

Dodo deposit, Subpolar Urals: admantine crystals to 1.2 cm on quartz **30:433p**

South Africa

Transvaal

Vaalkop Dam, Bushveld Complex: sharp blue-black microcrystals **29:463p, 464**

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Penouta, Viana do Bollo, Orense: red crystals to 5 mm on quartz prisms **28:409n**; small crystals on quartz **30:153n**

Switzerland

Alp Lercheltini, Valais: old specimens with large brown crystals **29:220**

Mt. Cherbadung: microcrystals with fetiasite **30:221**

Russia

Lapcha, northern Urals: **27:139p**; sharp bipyramidal crystals on quartz **27:145n; 27:389n**; crystals to 1.5 cm on quartz **28:136n**; lustrous deep blue bipyramids to 1.5 cm **29:217n**

United States

California

Georgetown, El Dorado County: blue euhedral crystals to 1 cm **31:345–346c,p**

Kentucky

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Casapalca district, Lima Dept.: colorless to white, thick-bladed crystals **28:P81**

Cerro de Pasco district, Pasco Dept.: good specimens **28:P64**

Colqui district, Lima Dept.: white and honey-colored crystals to 2.5 cm **28:P74**

Huanzala mine, Huallanca district, Huanuco Dept.: white bladed crystals with sulfides **28:49p**; thin, compound white blades to 2 cm on sulfides **31:276n**

Huaron mines, Pasco Dept.: white/colorless zoned crystals to 1 cm **28:P68**

Julcani district, Huancavelica Dept.: varicolored bladed crystals to 5 cm **28:P88**; platy white crystals to 10 cm with enargite **34:251**

Quiruvilca district, La Libertad Dept.: thin bladed creamy crystals to 5 cm **28:P23**

Raura district, Lima Dept.: white bladed crystals to several cm **28:P38,39p**

San Cristobal district, Junin Dept.: bladed blue-gray crystals to 2.5 cm **28:P75**

San Genaro mine, Castrovirreyna district, Huancavelica Dept.: white bladed crystals to 10 cm in large groups **28:P93**

Romania

Boldut mine, Cavnic, Maramures: fine yellow crystals to 15 cm **28:137n**

Cavnic, Maramures: caramel to white blades to 3 cm **27:456n**; yellow crystals in plates to 40 cm **28:416n**; smoky blue crystals in groups to 15 cm **29:216n**

Mine #6, Baia Sprie, Maramures: 2.5-cm crystals included by realgar **28:137n**

Roata mine, Cavnic, Maramures **28:138p**

Turt mine, Satu Mare: thin colorless crystals in parallel sheaves to 4 cm **32:54p**

Russia

Elbrusskiy mine, North Caucasus: gemmy brown crystals to 10 cm **33:274n**

Verchniy mine, Dal'negorsk, Primorskiy Krai **32:(11)**

Slovakia

Pezinok mine, Pezinok: tiny white crystals on stibnite **31:157**

South Africa

Cape Province

Nababeep West mine: transparent crystals to 20 cm with chlorite **35:310p**

Transvaal

Elandsrand gold mine, Witwatersrand Basin: cavity with barite crystals to 83 cm **32:177–180p**; largest barite crystals in world **35:59**

Spain

Cartagena, Murcia: tabular blue **26:498n**

Gorguel, Murcia: rounded blue crystals to 5 cm **26:146n**

La Unión-Cartagena area: blue crystals **30:153n**; fine specimens **31:286**

Lucairena de las Torres, Almería: tabular orange crystals **28:409n**

Marisol mine, La Unión-Cartagena area: bluish white crystals to 5 cm **28:409n**

Moscona mine, Asturias: yellow transparent crystals with fluorite, calcite **30:153n**

Picos de Europa, Santander **27:(184)**

Río Tinto mines, Huelva: plumbian barite in crystals to 5 cm **27:281**

Teresita mine, La Unión, Murcia: tabular blue crystals in large groups **26:146n**; **31:(286)**

Victoria mine, La Unión, Murcia **31:(286)**

Sweden

Bastnäs mines, Västmanland: small red-brown crystals **35:194**

Götland Island: yellow tabular crystals to 4 cm **27:208n**

Tunisia

Hammam Zriba mine: bluish gray, red-dusted crystals, cabinet-sized groups **30:40n**; blue crystal aggregates on aragonite **33:523n**; 2.5-cm crystals on calcite **34:185n**

United States

Arizona

Castle Dome district, Yuma County: platy masses, bladed crystals **29:451**
 North Geronimo mine, La Paz County **27:367p**
 Purple Passion mine, Yavapai County: white blades with wulfenite **31:326**
 Puzzler mine, Castle Dome district, Yuma County: white platy crystals **29:451p**

California

Chickencoop Canyon, Tulare County: masses, rough crystals **34:162**
 Point Vicente, Palos Verdes Hills: thick tan platy crystals to 3 cm **27:456n**
 Trumbull Peak, Mariposa County: anhedral grains **30:414**

Colorado

Book Cliffs, near Grand Junction, Mesa County: colorless prisms to 8 cm **32:53**; crystals to 5 cm on tan sandstone **33:523n**; abundant fine specimens **34:90n**
 Stoneham, Weld County: 14-cm repaired specimen **28:91p, 93**; 1,200 newly dug specimens with crystals to 5 cm **35:151n**
 Sweet Home mine, Park County: 6-mm blade with fluorite **29:SH116**

Connecticut

Bristol mine, Hartford County: white bladed crystals, transparent tabular crystals **32:441**
 Cheshire: spectacular blades **32:441**
 Somers: translucent blue or tan crystals to 3 cm in groups to 7 cm **35:149n**

Illinois

Annabel Lee mine, Hardin County: fine crystals, stalactites, casts **28:26–28p**
 Cleveland mine, Hardin County: casts after witherite, celestine **28:26**
 Crystal mine, Hardin County **28:(26)**
 Denton mine, Hardin County: fine multicolored crystals **28:26–27p**
 Gaskins mine, Hardin County: yellow crystals to 10 cm **28:26**
 Minerva #1 mine, Hardin County: fine crystals, casts **28:26–27p**; microcrystals of barite pseudomorphous after paralstonite **28:443–446c,g,p,q**
 Spar Mountain, Hardin County: with fluorite **28:26**
 Victory mine, Hardin County **28:(26)**
 West Green mine, Hardin County: crystals to 10 cm **28:26**

Kentucky

Several mines in fluorite district: large commercial deposits **28:27**

Missouri

Lamb mine, Morgan County: transparent crystals in 15-cm aggregates **26:482n**

Montana

Butte, Silver Bow County: white, yellow, brown crystals in gangue **33:42p, 43**
 Myers, Treasure County: golden brown/colorless crystals to 19 cm **30:467n, 468p**
 Pack Rat claim, Red Pryor Mt., Carbon County: brown to light tan diamond-shaped crystals in large clusters **30:40–41n**

Nevada

Anglo Gold SSX mine, Elko, Elko County: tabular yellow crystals **33:260–261p**
 Barrick Meikle mine, Carlin, Elko County: lustrous, gemmy, orange to yellow tabular crystals to 4 cm **29:127p, 128n**; groups of fine crystals **29:212n, 218p**; rich yellow-orange gemmy crystals on calcite **30:49n; 30:(151)**; magnificent crystal groups from

huge pockets **30:188–196h,p**; large matrix plates with crystals to 10 cm **30:211–212n**; cover photo **30:No. 4**; with calcite **30:467n; 32:(53)**; 700 specimens from “Goldstrike Pocket” **32:245n**

Carlin Trend, Eureka County: lustrous amber-yellow crystals to 2 cm **28:201n**

Dee mine, Elko County: orange tabular crystals to 5 cm in clusters **31:273n, 275p**; new crystals more lustrous than older ones **32:245n**; complete locality report **33:225–233g,h,p**

Gold Quarry mine, Eureka County: crystals in varied habits, colors **26:453**

Hecla Rosebud mine, Pershing County: white crystals to 3 cm **29:136n**; grayish white blocky crystals to 3 cm **30:212–213n**

Murray mine, Elko County: blocky crystals coated with drusy quartz **31:195n**; pseudorhomb to 2.5 cm, drusy quartz-coated, on stibnite **31:273n**; blocky white quartz-sugared crystals on brecciated matrix **31:512n**

Rawhide district, Mineral County: pale yellow orpiment-included crystals to 3.5 cm **28:201n**

Twin Creeks mine, Humboldt County: crystals to 7 cm with orpiment **31:318p, 321**

Willard mine, Pershing County: lustrous tabular crystals to 1.2 cm **32:300**

New Mexico

Mex-Tex mine, Bingham: colorless to white crystals to 20 cm **30:337, 338p**

New York

Hyatt mine, Talcville, St. Lawrence County **26:(483)**

Oklahoma

Noble, Cleveland County: roses to over a meter **26:483n**

South Dakota

Elk Creek, Black Hills: 20-cm repaired specimen **28:91p, 93–94**; richly colored crystals to 15 cm on matrix **29:128n**; best specimens in years **29:137n**
 Smith Ranch north of Wasta (“Elk Creek”): gemmy prisms to 12 cm **26:582n**

Tennessee

Elmwood mine, Smith County: strontian, white spheres **27:171–173g,p,q**; 10-cm spheres of pale yellow crystals **33:83n**

Texas

Karnes uranium district south of San Antonio **27:(26)**

Zaire

Dikuluwe mine, Kolwezi, Shaba: with malachite inclusions **26:577p, 579n**

Mulinguisha, Katanga: pale green crystals on malachite (probably same locality as “Shangulowe mine,” below) **30:40n**

Shangulowe mine, Katanga: yellow-gray with malachite inclusions **26:152n**; colorless bladed crystals to 4 cm included by malachite **29:217n**; green-tinted crystals to 5 cm in groups on malachite matrix **30:38p, 40n**; fine groups to cabinet size **30:221n**

BARRERITE

United States

Alaska

Rocky Pass, Kuiu Island: white blades and sheaves to 3 cm in groups **31:276n**

“BARTHITE”

Old name for conichalcite/cuprian austinite from Ojuela mine, Durango, Mexico

BASALUMINITE

United States

Tennessee

Alum Cave Bluff, Sevier County: foliated microcrystals **31:169p**

BASTNÄSITE-(Ce), -(La), -(Y)

Afghanistan

Chuliani, near Jalalabad: loose gemmy crystals, 3-cm crystals on matrix **32:60n**

Locality not specified: sharp crystals to 6 cm, small gemmy crystals **33:274–275n**; fine thumbnails, matrix specimens **34:85n**

Shinwaro, Kunar Province: crisp brown thumb-nail single crystals **32:55n**; brown, some part-gemmy, hexagonal crystals to 4.5 cm **32:253n**

Canada

Quebec

Saint-Amable sill: zoned hexagonal microcrystals, rosettes **29:94**

France

Trimouns quarry, Luzenac, Ariège: fine brown to orange-red crystals, three types **35:233–234d,p**

Italy

Liguria

Pontori prospect, Val Graveglia: tiny crystals with synchysite-(Ce) **32:361**

Pakistan

Locality not specified: 1 x 1.5-cm crystal on feldspar matrix **35:145n**

Zagi (Zegi) Mountain, Northwest Frontier Province: 1.3-cm crystal **33:No. 6 (cover)**; superb hexagonal crystals, some gemmy **33:523n**; fine 2 x 4-cm crystal **34:188n**; fine brown crystals to 6 cm, some gemmy **35:213–215p**

Sweden

Bastnäs mines, Västmanland: plates, masses, crude crystals **35:194h,p**

BAUMHAUERITE

Canada

Ontario

Madoc: antimonian **27:50**

Italy

Tuscany

Serravezza: microcrystals **27:50–51q**

BAUMSTARKITE

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San Genaro mine, Castrovirreyna, Huancavelica: black crystals to 3 mm **34:250**

BAVENITE

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Bavaria

Krennbruch/Kusserbruch quarries, Tittling: rosettes, pseudomorphs **35:408**

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Kalisay: large masses with epidote **26:493**

Spain

Los Gallegos quarry, La Cabrera: 1-cm tufts on feldspar crystals **31:286n**

Sweden

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United States

California

Himalaya mine, Mesa Grande district, San Diego County: acicular microcrystals, pseudomorphs after beryl **33:396**

BAYLDONITE

Australia

New South Wales

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Ireland

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Myanmar (Burma)

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Nepal

Taplejung, Taplejung district: 13.5-cm aquamarine crystal on matrix **34:279p**

Nigeria

Jos region: gemmy aquamarine-emerald crystals to 12 cm **27:63n**

Pakistan

Baha, Baltistan: very pale, gemmy, color-zoned crystals to 2 cm **28:508n**

Chhappu, Braldu Valley, Baltistan: 26.7-cm aquamarine crystal **28:194p**

Chigar-Tow: superb two-step gem aquamarine 7.3 long on matrix **35:148n**

Chumar Bakhoor, Nagar, Northern Areas: aquamarine on muscovite **29:136n**

Drot-Balachi near Shengus, Northern Areas: morganite crystals to 15 cm **26:497n**

Dusso area: gemmy aquamarine crystals **26:TZ22, 23; 28:194p**

Kashmal, between Dusso and Shigar: gemmy aquamarine crystals to 8 cm with gemmy topaz **26:TZ23**

Nagar: aquamarine crystal groups **31:50p, 52p**

Shengus, near Skardu: large gem aquamarine crystal on albite **31:48p**; aquamarine with quartz, albite, schorl **31:53p**

Shigar, Baltistan: jack-straw groups of pale aquamarine crystals **28:212n**

Shigar Valley near Skardu: 12.5-cm gem aquamarine crystal **31:46p**; 23-cm aquamarine crystal on microcline **31:270p**; gemmy 7.2-cm aquamarine crystal with schorl **34:No. 4 (cover)**; 4 perfect aquamarine crystals on large matrix **35:160n**

Russia

Adui field near Mursinka: large green aquamarine crystals **31:183**; exceptional specimens **32:44h**

Adun Chilon (Chelon), Nerchinsk district, Siberia: crystals with topaz **26:TZ31, 32; 32:(45)**

Alabashka field, Urals: excellent green beryl, heliodor crystals **31:183**

Malysheva mine, central Urals: abundant supply of non-gemmy emerald **27:63n**; 16-cm matrix specimen **31:390p**

Mama district, Transbaikal: gemmy heliodor **32:44**

Miass, Ilmen Mountains: rare green beryls to 25 cm **31:183**

Mokrusha and Kazjonitsa mines, Mursinka, Malysheva mine, central Urals: abundant supply of non-gemmy emerald **27:63n**; 16-cm matrix specimen **31:390p**

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Sherlova (Sherlovaya) Gora peak, Nerchinsk district, Siberia: heliodor and aquamarine with topaz **26:TZ30, 31**; thumbnail crystals **26:576n**; large "historical" gemmy beryls, various colors **32:44, 45h**

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Takovaja district, Urals: emerald with alexandrite, phenakite **31:183**

South Africa

Transvaal

Kruisrivier mine: questionably reported **27:424**

Spain

A Franqueira, Pontevedra: opaque to translucent emerald to 15 cm **28:499p, 500c,q**

Sweden

Sels Vitberget near Kramfors: altered crystal sections to 20 cm **27:208n**

Tajikistan

Zelatoya Vada, Rangkul, east of Murgab: gemmy heliodor on matrix **26:583n**; lustrous, gemmy crystals on matrix **27:143p, 145–146n**; gemmy prisms to 3 cm on matrix **27:221n**; crystals with unusual inclusions **28:212n**; loose, top gem-grade crystals to 4.5 cm **30:45n**; loose gem crystals to 15 cm, various colors **30:53n**; heat-treatment doubted by John White **31:449**

Ukraine

Volhynia pegmatites: large corroded crystals with topaz **26:TZ19**

Volodarsk: heliodor and blue beryl crystals **26:152n**; blue to green to yellow gemmy crystals **32:45h**

Volodarsk-Volynsk: heliodor in abundant supply **26:227p, 229n; 26:536p; 30:315p, 31:49p**

United States

California

Audrey Lynn claim, Riverside County: aquamarine crystals **33:369p**

Blue Lady mine, San Diego County: fine morganite, aquamarine **33:369–371p**

Clark mine, Rincon district, San Diego County: gem morganite **33:390**

Cryo-Genie mine, San Diego County: gemmy aquamarine, morganite **33:373–374p**

Crystal Gem mine/Beebe Hole, Jacumba district, San Diego County: aquamarine crystal **33:404p**

Elizabeth R mine, Pala district, San Diego County: gemmy morganite crystals to 15 cm **33:388h,p**

Esmeralda mine, Mesa Grande district, San Diego County: fine crystals of morganite, aquamarine **33:397–398p**

Fano mine, Riverside County: 7.1-cm aquamarine crystal group **33:367p**

Hercules mine, Ramona district, San Diego County: prismatic morganite, goshenite, aquamarine crystals to 8 cm **33:403**

Himalaya mine, Mesa Grande district, San Diego County: massive, rare goshenite crystals **33:393**

Little Three mine, Ramona district, San Diego County: goshenite-morganite **26:TZ23**; morganite crystals **33:401p, 402p**; goshenite crystal **33:402p**

Mack mine, Rincon district, San Diego County: gemmy aquamarine **33:390h,p**

Pack Rat mine/Beebe Hole, Jacumba district, San Diego County: gemmy pale blue to green aquamarine **33:404p**

Stewart mine, Pala district, San Diego County: morganite crystals **33:378p**

Tourmaline Queen mine, Pala district, San Diego County: morganite crystals on blue-cap elbaite crystals **33:414, 418, 420p**; morganite with blue "indicolite" elbaite **33:424–425**

White Queen mine, Pala district, San Diego County: pale-colored morganite crystals to 8 cm **33:383–384h,p**

Idaho

Sawtooth Range (aquamarine) **26:TZ16**

Maine

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- Boulby mine, Loftus, Cleaveland, Yorkshire: pale blue-green crystals* **26**:494n; *description of occurrence* **27**:165–168c,g,h,p,q; **28**:(65); *good specimens* **28**:208n

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- Bamberg saline deposit: 26*:220p, 223–224n

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United States

Pennsylvania

Wood's mine, Lancaster County: many fine old specimens in Yale collection **30**:95

BUCKHORNITE

United States

Colorado

Various gold telluride deposits **35**:(62)

BUKOVITE

Sweden

Skrikerum **27**:(209)

BULGARIA

Droubja mine, Laki district **32**:58s

Droukouvo mine, Laki, Rhodope Mts. **32**:497s

Erma Reka mine, Zlatograd **30**:221s

Ianakiev mine, Erma Reka **34**:281s

Kruchov Dol mine, Madan district **34**:275s

Madan district **26**:141s, **27**:456s, **32**:58s

Mogila mine, Madan district **29**:216s

9th of September mine, Madan **27**:144h

Osogovo Mountain, Kjustendil **28**:208s

Pchelohad mine, Kardzah **28**:417s

Sedefteche mine, Momtschilgrad **30**:221s

17th of September mine, Madan **34**:87s

Stefanov mine, Zlatograd **29**:216s

Zvezdel mine, East Rhodope Mountains **28**:208s, **29**:216s

BURANGAITE

United States

Nevada

Gold Quarry mine, Eureka County: microcrystals, perhaps Mg-analogue **26**:453p

BURMA

See Myanmar Republic

BYSTRITE

Russia

Locality not specified **26**:(494)

Malaya Bystraya, Siberia **26**:143s

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Vs. ilvaite **18**:436–437, **18**:438d

India

Bombay (euhedral to 5 mm) **7**:253

Italy

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United States

Connecticut

Wallingford, New Haven County **12**:382p

Massachusetts

Blueberry Mountain, Middlesex County **12**:382–383p

Grove Street quarry, Suffolk County **17**:342n

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Cliff mine, Keweenaw County (tabular to 2 mm) **23**:M52p

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Lincoln Park, Morris County (laths, poss. altering to acmite) **12**:382p

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Route 80 roadcut, Passaic County **1**:174

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Brazil

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Jacupiranga mine (some with epitaxial pyrochlore) **15**:264

Italy

Lazio (Latium)

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Moon

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South Africa

Transvaal

Palabora Open Pit **19**:203p

United States

California

Perovskite Hill, San Benito County **19**:331n

BAHIANITE

Brazil

Bahia

Chapada Diamantina region **16**:111–115p,q,c

Morro do Chapeú prospect, Chapada Diamantina region (pebbles) **16**:111–113p

Serra do Porco Gordo prospect, Chapada Diamantina region (pebbles) **16**:113

BAKERITE

Mexico

San Luis Potosí

Charcas (coating danburite) **3**:125, **3**:132p

BAMBOLLAITE

Mexico

Sonora

Moctezuma mine **1**:41

BANDYLITE

Chile

Chuquimata, Antofagasto **8**:(517)

Quetena mine, west of Calama, Antofagasto: **9**:(325); “spangolite” id as **14**:358

BANNERMANITE

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BANNISTERITE

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Minas Gerais

Lavra da Criminoso, near São Jose da Safira (minute crystals) **10**:147–151p,q

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South Dakota

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BARIANDITE

Gabon

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BARICITE

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Yukon

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BARIO-ORTHOJOAQUINITE

United States

California

Mina Numero Uno, San Benito County **12**:184n

BARITE

Microminerals column feature **22**:61–64

Australia

New South Wales

Kintore opencut, Broken Hill **19**:428–429

Prospect quarry (tabular to 1 cm; rosettes) **25**:188

Queensland

Black Rock opencut, Mt. Isa mine (chalcopyrite, copper in) **19**:471p, **19**:478

South Australia

Beltana mine (massive; 2 mm white crystals) **22**:452

Burra Burra mine (euhedral bladed to 2 cm) **25**:126–127

Flinders Range (northern) (elongated) **12**:107, **12**:108p

Moralana, Flinders Range: colorless prismatic **15**:111p; micro prismatic **22**:61–62, **22**:63p

Tasmania

Rosebery mine **19**:384n

Victoria

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Western Australia

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Brazil

Parafá

João Pessoa: platy rosettes **23**:276; rosettes to 8 cm **22**:387n

São Paulo

Jacupiranga mine: white tabular **15**:267; yellow prismatic **15**:264

Bulgaria

Madan orefield **22**:441

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British Columbia

Rock Candy mine, near Grand Forks (golden tabular to 10 cm) **12**:99–101p

Northwest Territories

Nanisivik mine (white blocky) **21**:521d,c

Port Radium **20**:(207)

Ontario

Bailey mine, Madoc area (encrusting fluorite; some crystalline stalactitic) **13**:88, **13**:89p

Keene mine, Madoc area (3 cm crested sphere) **13**:88, **13**:89p

Madoc area (various habits) **13**:91c

Marmoraton mines (colorless) **13**:111n

Rogers mine, Madoc area (bladed, with fluorite) **13**:89, **13**:90p

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

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Québec

Mt. St-Hilaire: **10**:103; complex yellow **13**:244n; micro prismatic **21**:298

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Gunn claim, near MacMillan Pass (blue) **17**:340n

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Rock River, Richardson Mountains (gray; turns blue in sunlight) **17**:339n

Chile

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Bromley (Brownley) Hill, Nenthead (after alstonite) **24**:394n

Locality not specified **14**:374p

Derby

Alport, Ashley Hay (platy) **14**:23

Arbor Low, Middleton-by-Youlgreave (stalactitic, “oakstone”) **14**:19p, **14**:23

Brownedge, Winster (brown bladed, yellow fl.) **14**:23

Crich (intergrown pink with purple fluorite) **14**:23

France

Côte d’Abot, Olloix, Puy de Dôme (15 cm partly gemmy) **23**:434n

Font Sante mine, Var (bladed) **8**:309, **8**:311p

Four la Brouque, Puy de Dôme **19**:337n

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Les Farges mine, near Ussel, Corrèze **13**:(267)

Les Malines mine, Saint Laurent le Minier, Gard (white rosettes) **23**:434n

Ravin de Sans-Souci, Chantelguyon, Puy de Dôme (labular) **23**:434n

Saint Laurent le Minier, Gard (snow-white clusters) **21**:489n

Germany

Baden-Württemberg

Clara mine, near Oberwolfach (3 cm “chisel spar”) **8**:306p

Dreislar **20**:398

Obersachsen

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 Blaine tunnel, Rico district, Dolores County (quartz casts after) **16**:213n
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 El Paso, Las Animas, and Otero counties **19**:215n, **19**:216p
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 Hartsell, Park County: blue **10**:332; blue tabular to 13 cm **11**:23–25p,c,q
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 Indiana and Topeka-Kentucky Giant veins, Ouray County (grey tabular) **25**:373–374p
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 Italian Mountain area, Gunnison County (tabular golden, white bladed) **15**:81p
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 Mineral Farm mine, Ouray County **19**:99p
 Muddy Creek, San Juan Mountains (colorless to grey, tabular to 5 cm) **12**:79–80p,d,c
 National Belle mine, Ouray County: **19**:99; white micro **17**:233n, **17**:234p
 O.S. prospect, Ouray County (quartz after) **24**:382n
 Park County (locality not specified) (colorless; pegmatite occurrence) **3**:180p
 Pikes Peak batholith (micro crystals; after 6 cm microcline) **10**:376p
 Rico Argentine mine, Rico district, Dolores County (white to golden clusters) **16**:216n
 San Juan Mountains **10**:358n
 Senorita mine, Ouray County **19**:96–98p
 Sherman Tunnel, Lake County: golden **16**:191n; golden to 10 cm **10**:330p
 Stoneham (near), Weld County: **21**:97; blue tabular **17**:255–258p,c,d
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 mm crystals **23:434n**

Namibia

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

Norway

Tørdal, Telemark **23:436n**

United States

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

BAYLEYITE

United States

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

BAZZITE

Italy

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

Kazakhstan (formerly USSR)

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

Norway

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

United States

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

BEAVERITE

Australia

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

Chile

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

Namibia

Tsumeb (crusts) **8:T20n**

Spain

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

United States

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

BECQUERELITE

Canada

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

England

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

France

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

United States

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

Zaire

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

Canada

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

United States

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

BEIDELLITE

South Africa

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

United States

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

BELGIAN CONGO

See Zaire

BELGIUM

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 Sahn Chateau **11:29s**
 Salm **9:113s**

BELKOVITE

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

BELLINGERITE

Chile

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

“BELMONTITE”

See also Barysilite

United States

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

BEMENTITE

South Africa

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

Sweden

Harstigen mine **22:(49)**

United States

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

BENITOITE

United States

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

BENJAMINITE

United States

Colorado
 Alice Glory Hole, Clear Creek County (tentative id) **18:(186)**
 Nevada
 Outlaw mine, Nye County: **16:44h**; other
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22:177–178

BENSTONITE

United States

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

BERAUNITE

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

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

England

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

- Spain**
Horcajo mines, Ciudad Real (radial) **25:22p, 25:25**
- Sweden**
Leveäniemi iron mine, Norrbotten **20:345p, 20:346**
- United States**
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Indian Mountain, Cherokee County: **20:358p**; massive; prismatic to 1 cm **5:243**
Jacksonville (near), Calhoun County **9:390**
Rock Run station, Cherokee County **9:388n**
Arkansas
Mena, Polk County **16:150**
Georgia
Indian Mountain, Polk County: **20:358p**; see also Beraunite—Alabama—Indian Mountain
Indiana
Bethel Church fossil dig, Pike County **15:353p**
New Jersey
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Bachman mine, Northumberland County **11:311p**
Moore's Hill, Cumberland County **11:311**
South Dakota
Tip Top mine, Custer County **17:240, 17:251**
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- BERMANITE**
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South Australia
McMahon pegmatite **12:107s**
- Brazil**
Minas Gerais
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- United States**
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7 U ranch, Yavapai County **15:305**
South Dakota
Tip Top mine **17:240q, 17:251**
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- BERTHIERINE**
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Québec
Mt. St-Hilaire (euhedral prismatic pseudo-morphs poss. after mica) **21:299, 21:300p**
- BERTHIERITE**
Czech Republic (formerly Czechoslovakia)
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- France**
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- Kazakhstan (formerly USSR)**
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- Connecticut
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- Idaho
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Sawtooth batholith: **17:(342)**; tabular to 3 mm **24:192p,c**
- Maine
Emmons quarry, Oxford County (micro) **25:377n**
Mt. Mica, Oxford County **16:372n**
- New Hampshire
Government pit, Carroll County (1 mm euhedral) **14:48p**
- New Mexico
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- Utah
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Kunar (near), Kunar province (sharp, glassy aquamarine to 3.2 cm) **11:315p**
Laghman province: “morganite” with aquamarine cores, to 12 cm **22:386n**; 3 localities; mostly pink **9:307, 9:308p**
Locality not specified: “morganite” **20:397**; yellow **13:41n**
Pandjshir (emerald) **25:138p, 25:140**
- Australia**
Queensland
Mica Creek area **19:475**
Western Australia
Tabba Tabba (white tabular) **23:432n**
- Austria**
Felbertal mine, Salzburg (aquamarine) **17:106n**
Habachtal, Salzburg (emerald) **20:483**
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Untersulzbachtal, Salzburg (aquamarine) **17:106n**
- Brazil**
Bahia
Açude Socêgo, Anagé township (emerald) **8:384q**
Jaquetô (near), Medeiros Netos County: aquamarine **20:394**; aquamarine, etched **22:215p, 22:216, 22:387**
Pedra Preta mine (aquamarine) **7:129p**
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Pombo farm, Anagé township (emerald) **8:384**
Socotó deposit (emerald) **16:108n**
- Espírito Santo
Mimoso do Sul: **23:432c**; aquamarine, odd tapered habit **23:276**
- Goiás
Santa Terra (emerald, 49.6 ct faceted) **18:433n**
- Minas Gerais
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Cajiu mine, Almenara area (aquamarine) **19:335n**
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Galiléia (near) (opaque crystals to 1 m) **9:41**
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Salinas (zoned pink and blue) **19:335n**
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- Telfrio mine, near Linópolis **14**:(234)
Tres Barras (aquamarine, 1 m gemmy crystal) **7**:216p, **7**:220p
Virgem da Lapa mine: **13**:27; aquamarine, tabular **18**:365n; "matrix specimens" created in Germany **14**:61
- Paraíba
Alto Benedito pegmatite (large crude crystals) **22**:184n
- Canada**
Manitoba
Bernic Lake mine (colorless to 15 cm) **7**:221–222q
Ontario
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McCoy beryl mine, near Quadeville **10**:155
Quadeville beryl-lyndochite quarry, Renfrew County (some aquamarine) **13**:200p
Québec
Mt. St-Hilaire (yellow micro prismatic) **21**:299
- China**
Altay region, Xinjiang autonomous region: aquamarine **18**:(326); 10 cm green **25**:46, **25**:48p
Hunan province (locality not specified): aquamarine, pale to 4 cm **24**:224p, **24**:226; colorless tabular to 4 cm **25**:138p, **25**:140n; "morganite," 9 cm tabular **21**:489n
- Colombia**
"Angel of the Andes" crystal, 10 cm **24**:49n
Coscuez mine, Boyacá **24**:49n
Emerald Mining in Colombia: History and Geology **1**:142–149
Muzo mine: emerald **20**:392p, **20**:394; emerald, 1.5 cm crystal **15**:145p, **15**:146m; emerald, with calcite crystals **18**:408n
- Czech Republic (formerly Czechoslovakia)**
Maržikov **19**:10s
- Finland**
Luumäki, Kymi (gemmy, over 2000 ct) **23**:433n
- Greenland**
Ivisártoq peninsula, Godthåbsfjord area (15 cm greenish) **24**:14–15
- India**
Hyderabad area, Andhra Pradesh (gemmy yellow-green and aquamarine) **21**:489n
- Italy**
Lombardy
Baveno area (aquamarine) **14**:162
Tuscany
Buca della Vena mine (aquamarine, emerald) **17**:264–265p
San Piero in Campo area, Elba: aquamarine, "goshenite," "morganite" **16**:356–358p,d; lepidolite oriented on **16**:357n
- Madagascar**
Anjanabonoina (Cs-bearing) **20**:195–196d
Locality not specified (7.5 cm aquamarine) **11**:29
- Mexico**
San Luis Potosí
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- Nepal**
Hyakule pegmatite **16**:417n
- Nigeria**
Bauchi (emerald, to 15 cm) **23**:435n
Jos: aquamarine **19**:120n; emerald, to 15 cm **23**:84
Sabon Wana, Nanarawa Eggon, Plateau state (aquamarine) **16**:306n
- Northern Ireland**
County Down
Slieve Donard quarry (aquamarine) **13**:(44)
- Norway**
Drammen area, Buskerud (aquamarine) **22**:51n
- Pakistan**
Dusso (Dassu) area, Gilgit division: 27 cm gemmy, aquamarine **22**:53, **22**:55p; vars. aquamarine, goshenite, "inky" blue **16**:400–403p,d
Gilgit-Skardu area, Gilgit division (spray of aquamarine) **15**:45p
Haramosh Mountains, Gilgit division ("goshenite") **16**:403p
Haramosh valley, Asad Kashmir province (aquamarine to 8.5 cm) **11**:321–322
Kashmir (see Gilgit)
Locality not specified: aquamarine; 9 kg crystal **25**:219n; emerald **18**:368n
Nagir, Hunza: **20**:397; aquamarine **20**:236
Skardu (near), Gilgit division (yellow to 15 cm) **24**:219, **24**:220p
- Russia (formerly USSR)**
Alabashka, Ural Mountains (24 cm doubly terminated aquamarine) **24**:389n
Maleshevo, Ural Mountains: emerald to 10 cm **25**:47n; in schist matrix **24**:226n
Miask (emerald, 9 cm doubly terminated) **9**:367n
Tokoyawa, Ural Mountains (golden) **11**:317n
- South Africa**
Transvaal
Gravelotte (emerald) **18**:193n
- Spain**
Franqueira, Pontevedra: **24**:236n; emerald **25**:222n; emerald, to 5 cm **23**:272
- Ukraine (formerly USSR)**
Volyn (Wolodarsk-Wolynsky, etc.): **18**:243p, **18**:244, **19**:117–118n,p, **19**:211n, **20**:74n; "heliodor"; aquamarine, prob. heat- or rad-treated **24**:389n
- United States**
Alabama
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- Colorado
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- Mt. Antero, Chaffee County: aquamarine **20**:(388), **25**:147b; aquamarine, 7 cm crystal **10**:332, **10**:339p, **10**:340–346p,d
- Connecticut
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- Georgia
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- Maine
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Mt. Mica, Oxford County: aquamarine with "morganite" core **16**:372; bizarre morphology **16**:369–370d
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- New Mexico
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United States

Arizona

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

BORACITE

England

North Yorkshire

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

BORAX

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

BORNITE

Australia

Queensland

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

South Australia

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BOURNONITE

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Bolivia

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Czech Republic (formerly Czechoslovakia)

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Haddam (Route 9 and Beaver Road), Middlesex County **6**:115m
Hewitt (Hewitt’s) quarry, Turkey Hill, Haddam, Middlesex County **1**:71s, **6**:115m
Lane’s mine, south of Monroe, Fairfield County **2**:17
Linkpot **19**:332s
Litchfield County **18**:360s
Long Hill tungsten mine, Trumbull’s Old Mine Park, Trumbull, Fairfield County **7**:157h
Middletown, Middlesex County **20**:299s, **23**:424s
Mineral Collector’s Field Guide—Connecticut **9**:257b
Morris Dam, East Morris, Litchfield County **6**:115m
Newtown, Fairfield County **14**:367–368s
Oxford, New Haven County **3**:36–37s
Parlor Rock Road, Trumbull, Fairfield County **6**:115m
Pelton quarry, Portland, Middlesex County **6**:115m
Plainfield, “Moosup quarry,” Windham County **20**:390s
Reed’s Gap quarry, Wallingford, New Haven County **18**:145–146s
Ridgefield, Fairfield County **6**:115m
Selden quarry, East Hampton, Middlesex County **6**:115m
Slocum quarry, East Hampton, Middlesex County **6**:115m
State Forest quarry, Cobalt, Middlesex County **6**:115m
Strickland quarry, Portland, Middlesex County: **3**:203m, **4**:85, **4**:109g, **4**:125s, **6**:115m, **8**:330h, **14**:364s, **17**:269s, **19**:332s, **23**:424h; dumps removed for fill **23**:80h
Thomaston Dam, Thomaston, Litchfield County **4**:85, **10**:239–241h, **20**:463s, **23**:88s
Thomaston (Route 109 road cut), Litchfield County **6**:115m
Toll Gate quarry, Middletown, Middlesex County **6**:115m
Trumbull, Fairfield County **1**:86s, **23**:499s
Wallingford, New Haven County **12**:382s
Watertown, Litchfield County **1**:89–90s, **20**:460s, **20**:463s, **23**:88s
White Rocks quarry, Middletown, Middlesex County: **6**:115m; closed **23**:424h
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“CORUNDOPHILITE”

See Clinocllore

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Stewart mine, San Diego County (“rubellite” to 25 cm) **8**:508, **8**:510p

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Tourmaline Queen mine, San Diego County: multi-colored **8**:508–510p; pink, blue tips **3**:65

Connecticut

Gillette quarry, Middlesex County (to 30 cm; multicolored, some chatoyant) **23**:25, **23**:26–27p

Maine

BB #7 quarry, Oxford County **16**:375

Bennett quarry: **25**:377, **25**:378p; various colors **25**:183

Black Mountain, Oxford County (“rubellite” in lepidolite) **16**:378

Dunton mine: account of re-discovery **6**:14–22, **16**:378–382p; green, “watermelon” to 27 cm **6**:22–25p,c,d

Emmons quarry, Oxford County (to 10 cm) **25**:377n

Fisher quarry, Sagadahoc County **16**:378

Georgetown, Sagadahoc County (4-colored) **16**:378–379p

Havey quarry, Androscoggin County **16**:375, **16**:380p

Keith quarry, Androscoggin County **16**:374–375, **16**:380p

Lepidolite after **16**:385

Locality not specified **16**:365–382

Martin prospect, Oxford County (gemmy “indicolite”) **24**:382

Mills quarry, Oxford County **16**:374n

Mt. Apatite quarries, Androscoggin County **16**:374–375, **16**:377p

Mt. Marie, Oxford County **16**:374

Mt. Mica: **16**:366–373p,d, **16**:376–377p; blue, green, to 3 cm **23**:424; 25 x 25 cm, lepidolite after, cookeite molds after **16**:385

Mt. Rubellite, Oxford County **16**:373–374, **16**:376p

Nevel gem pit (“watermelon” to 34 cm) **4**:54–55

Porcupine Hill, Sagadahoc County **16**:378

Pulsifer quarry, Androscoggin County: **16**:374–375; fluorapatite after **8**:76n; various colors, incl. “salmon-brown” **8**:74–76p

Standish, Cumberland County **16**:378

Wade quarry (west of), Androscoggin County (5 cm multicolored) **24**:382

New Mexico

Harding mine **20**:64n

South Dakota

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

Zimbabwe

St. Anne’s mine **19**:122n, **20**:(147)

“ELECTRUM”

Alloy of gold and silver

Canada

British Columbia

Engineer mine, near Atlin **24**:385n

Namibia

Tsumeb **13**:127

United States

Colorado

Silverton district, San Juan County **10**:358n

“ELEONORITE”

See Beraunite

ELLESTADITE

Series fluorellestadite-hydroxyllelestadite

United States

California

Jensen quarry, Riverside County (grains, pods) **15**:288n

ELLISITE

United States

Nevada

Carlin mine, Eureka County: **16**:46h; announced **11**:111h,q

ELPASOLITE

United States

Virginia

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

ELPIDITE

Canada

Québec

Mt. St-Hilaire: **10**:104, **13**:241p; after serandite, to 13 cm **21**:306–307p,d; labunsovite epitaxial on **10**:97p

Poudrette quarry: **18**:363; needles to 20 cm, prismatic to 10 cm **21**:486; oriented on labunsovite **25**:209p, **25**:210

Greenland

Narssársuk pegmatite: after eudialyte **24**:G41; crystals to 10 cm **24**:G44; fibrous **5**:121

United States

Colorado, Wyoming, Utah

Green River formation **8**:368–371

EL SALVADOR

Izalco volcano **11**:112s, **18**:339s

ELYITE

United States

Nevada

Caroline Tunnel, White Pine County **16**:46h

“EMBOLITE”

Chlorian bromargyrite or bromian chlorargyrite

Australia

New South Wales

Broken Hill **7**:29q, **12**:110n, **19**:429–430p

Tasmania

Magnet mine **19**:383)

Chile

Chañarcillo **10**:202–203n

United States

Arizona

Campbell shaft, Bisbee district (cubes) **12**:305
Mammoth mine, Pinal County (micro crystals) **11**:173

California

Blue Bell mine, San Bernardino County **8**:(432)

Colorado

Chrysolite mine, Leadville district **16**:196n
Evening Star/Morning Star mines, Leadville district **16**:196n

Leadville district, Lake County **16**:196

EMBREYITE

Russia (formerly USSR)

Berezov, Siberia (newly described; orange crusts) **5**:41h,q

EMELEUSITE

Greenland

Igdlutalik island, Ilímaussaq complex (equant; laths in trillings) **24**:G27–28h,c,d

“EMERALD”

See Beryl

“EMERY”

Mixture of magnetite, corundum, and ilmenite

United States

Massachusetts

Chester emery mines **9**:239

EMMONSITE

Six world localities **3**:82

Mexico

Sonora

Moctezuma mine: crusts, acicular **1**:41; micro vermiform **3**:82–84p

United States

Nevada

Goldfield, Esmeralda County: micro crystals **3**:82–83q; some id as sonoraite **6**:37

EMPLECTITE

United States

Arizona

Campbell shaft, Bisbee **24**:429n

Colorado

Alice Glory Hole, Clear Creek County (tentative id) **18**:(186)

EMPRESSITE

Canada

British Columbia

Grotto group, southwest of Hazelton (massive) **2**:206–207

United States

Arizona

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

ENARGITE

Chile

Chuquicamata **9**:323

France

Les Farges mine, Corrèze **13**:(267)

Italy

Tuscany

Calagio quarries **18**:270c, **18**:271–272p,d

Namibia

Tsumeb (crystals to 8 cm; some antimonian) **8**:T24, **8**:T60p

Peru

Hermína mine (2.5 cm crystal) **5**:218p

Huallapon mine, Ancash (crystals to 4 cm) **9**:36n

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Locality not specified (pyrite after) **20**:397

Romania

Bucium Ibitza **19**:(35)

United States

Arizona

Campbell shaft, Bisbee district (spots) **12**:305
Magma mine **14**:(82)

New Cornelia mine, Pima County **14**:(295)

California

Monitor-Mogul district, Alpine County (4 mines) (massive, some crystals) **22**:36q

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-
- See Schoepite*
- EPISTILBITE**
-
- Iceland**
 Skardscheidi, Bogardfjardur **19**:(337)
 Teigarhorn **17**:269p, **17**:340n
- India**
 Jalgaon area quarries **23**:434n
- United States**
 Hawaii
 Puu o Ehu quarry, Oahu: **14**:50p; prismatic **15**:96–97p
- EPISTOLITE**
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- Canada**
 Québec
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- Greenland**
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- Iceland**
 Berufjörður (crystals to 1 cm) **12**:15c, **12**:16d,p
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- EPITAXY**
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- Albite on microcline: Hotvedt, Norway **20**:397
 Albite on orthoclase: Baveno, Italy **14**:160–161d; Elba, Italy **16**:356d
 Aragonite blades on calcite, Bisbee, AZ **12**:290
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- Bixbyite on topaz cleavage plane, Topaz Mountain, UT **16**:139, **16**:142p
 Calcite on calcite: Jindeveck quarry, Australia **19**:199; Lancashire, England **18**:411p
 Chalcopryite oriented in sphalerite, Bandora mine, CO **19**:245
 Clinocllore on graphite (prob. epitaxy), Crestmore quarry, CA **22**:430–431p
 Cumengite on boleite, Santa Rosalia, Baja California **13**:32p
 Cuprite poss. oriented on copper, Bisbee, AZ **12**:303
 Elpidite on labuntsovite and vice versa, Mt. St-Hilaire, Québec **25**:209–210
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 Fluorite on galena (poss. epitaxy) **9**:217, **9**:218p
 Galeite on schairerite, Searles Lake, CA **6**:78–79d
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 Jeanbandyite on wickmanite, Llallagua, Bolivia **13**:235–236p
 Labuntsovite on elpidite **10**:97p
 Lepidolite on beryl, Elba, Italy **16**:357n
 Manganite on rhodochrosite (poss. epitaxy) **9**:146p
 Marcasite on pyrite, Nanisivik mine, Northwest Territories **21**:525–531p,d
 Marsturite on rhodonite, Franklin, NJ **17**:123–125p,m,q
 Mimetite on mimetite, Mt. Bonnie, Australia **19**:444
 Natrolite poss. on thomsonite, Simmons Bay, Australia **17**:269n
 Offretite on levynite, Philip Island, Australia **19**:455
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 Pentlandite on pyrrhotite, Miggiandone, Italy **7**:84–85p
 Pyrite on arsenopyrite, Noche Buena mine, Mexico **2**:247p
 Pyrite on sphalerite, Portland mine, CO **19**:100–101
 Pyrite on twinned marcasite, Nanisivik mine, Northwest Territories **19**:334, **21**:525–531p,d
 Pyrochlore on baddeleyite, Jacupiranga mine, Brazil **15**:264
 Quartz scepters, Fat Jack mine, AZ **22**:22p, **22**:27
 Quartz var. amethyst: Fremont County, CO (on milky quartz) **15**:177–178p; Uruguay (on calcite) **20**:236
 Ramsdellite on goethite, Chihuahua, Mexico **3**:210p, **4**:77–78
 Rutile epitaxial on hematite, in quartz, Rio Grande do Sul, Brazil **18**:143p
 Rutile on ilmenite, Ibitiara, Brazil **21**:96–97p
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- Toxicity **11**:7
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 South Australia
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- Canada**
 Yukon
 Big Fish River (efflorescences) **23**:Y37
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- Italy**
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- Slovenia (formerly Yugoslavia)**
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- United States**
 Arizona
 Campbell shaft, Bisbee district (colorless prisms to 5 cm) **12**:305
 New Cornelia mine, Pima County (fibrous crusts) **14**:295
 California
 Geysers, The, Sonoma County: pentahydrate after **24**:351p; powdery, fibrous **24**:350
 Kalkar quarry, Santa Cruz County **17**:323n
 Stayton mine, Stayton district **20**:433
 Yellow Jacket mine, Stayton district **20**:433
 Nevada
 Majuba Hill mine: fibrous, post-mining **16**:66; id as thenardite **24**:175
 White Caps mine, Nye County (“carpet” of needles to 5 cm) **16**:86n
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- Canada**
 Québec
 Mt. St-Hilaire (wire-like to 1 mm) **21**:308p
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-
- Australia**
 South Australia
 Moonta mines **19**:(412)
- ERIONITE**
-
- Vs. offretite **2**:52ff,q
- Australia**
 New South Wales
 Willy Wally Gully **19**:401–402p,c
- Canada**
 British Columbia
 Chase Creek, Falkland (1–2 mm prismatic) **21**:485n
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- Iceland**
 Breidhdalur-Berufsjörður area **12**:(21)
 Hofsa **12**:(21)
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- Ireland**
 Parkgate quarry, County Antrim (on micro levynite; poss. offretite) **10**:174, **10**:175p
- New Zealand**
 Moeraki, Otavi (1 mm prisms) **14**:49p, **14**:50
- Northern Ireland**
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- United States**
 Arizona
 Malpais Hill, Pinal County (“aragonite” id as) **14**:109–112p
 Thumb Butte, Graham County **12**:43–44p
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 Rock Island Dam area, Douglas/Chelan counties **14**:109h
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 Yellowstone National Park (micro) **12**:34

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ERNSTITE

Brazil

Minas Gerais
Linópolis (near) (after eosphorite, to 12 cm)
21:253n, 21:254p

Canada

Yukon
Big Fish River area (ernstite-like mineral,
radial sprays) **23:Y36q**

Namibia

Near Karibib
Davib-east farm (newly described) **2:129h,c,q**

ERRATA

About those typos . . . **20:100**
Complete Book of Micromounting, erroneous
photo credits **25:302**
Encyclopedia of Minerals (1st ed.) **7:318**
Mineralogical Record v1n1, **1:82**; v2n2, **2:192**;
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See Bornite

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Australia

New South Wales
Carcoar (furry acicular; locality disputed)
23:84

Queensland

Mt. Cobalt mine: **19:470p**, **19:488–489**; mis-
attributed to Carcoare, New South Wales
23:427p, **23:432**

South Australia

Walleroo mines **19:416**

Canada

British Columbia

Rocher Déboulé mine (crusts) **15:91n**

Northwest Territories

Port Radium **20:(207)**

Ontario

Cobalt Lake (near) (micro spheres) **13:110p**
Silver Islet mine **17:(59)**

Québec

Mt. St-Hilaire (crust) **21:308**

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Czech Republic (formerly Czechoslovakia)

Třebesko deposit (T-1 vein) **22:(212)**

England

Cornwall

Botallack district (powdery) **24:280**

Cumbria

Tynebottom mine, Alston **13:(168)**

Germany

Baden-Württemberg

Schmiedestollenhalde, Wittichen district (mi-
cro balls) **8:307p**

Hessen

Richelsdorf **15:111p**

Morocco

Bou Azzer (near): **20:72**, **20:396**; crystals to 6
cm **9:71–72p**; crystals to 10 mm **13:315**
Mibladen **7:244–247p**

Norway

Kongsberg **17:(35)**

Scotland

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

United States

Michigan

Mohawk mine, Keweenaw County (coating)
23:M65

White Pine mine, Ontonagon County **23:M65**

New Jersey

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New Mexico

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

Pennsylvania

French Creek mine (coatings, micro crystals)
25:114

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ESKEBORNITE

Bolivia

El Dragón mine, Potosí (micro inclusions)
21:138n

ESKOLAITE

Brazil

Bahia

Morro do Chapéu prospect, Chapada Diaman-
tina region (4 mm crystals) **16:112n**

“ESMARALDITE”

See Goethite

ESPERITE

Bolivia

El Dragón mine, Potosí (crystals to 1 mm;
yellow fl.) **21:142c,p,q**

United States

New Jersey

Franklin/Sterling Hill: anhedral **22:274–275**;
fl. **19:275**

Paterson, Passaic County **21:142q**

ETTRINGITE

England

Derby

Fall Gate quarry, near Ashover (micro) **21:492**

France

Saint-Maime, Alpes de Haute Provence (ettring-
ite-thaumasite; micro prismatic) **25:210p**

Germany

Rheinland-Pfalz

Laacher See area, Eifel district **8:319d**, **10:96p**

South Africa

Cape Province

Kalahari manganese field (associated with
sturmanite) **22:284**, **22:293**

Kuruman (near) (poss. sturmanite and/or
charlesite) **14:387p**

N’Chwaning mine **19:114n**

EUCAIRITE

Australia

Western Australia

Kalgoorlie **18:(28)**

EUCHROITE

Greece

Kamaréza mine, Laurium (crusts) **7:122–123**

Hungary

Locality not specified **1:(86)**

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Austria

Sonnblick Mountain, Salzburg **13:173n**

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Minas Gerais

Locality not specified (tabular) **10:179**

Mãe do Homens (colorless) **2:12n**

Ouro Preto region: **20:227–228p,d**; 3 locali-
ties, gemmy blue, green, colorless **2:12n**
Santa do Encoberto, São Sebastião do Maranhão
County (white, clear doubly termi-
nated to 8 cm) **5:226**, **5:229p**

Rio Grande do Norte

Alto Santino, near Ecuador **7:164p**

Germany

Bavaria

Epprechtstein (on orthoclase) **18:(162)**

Russia (formerly USSR)

Sverdlovsk area (?) **20:75n**

Zimbabwe (formerly Rhodesia)

Harare **19:124n**

Last Hope (Lost Hope?) mine, Karoi district
17:341n, **22:256**

Locality not specified (doubly terminated to 4.5
cm) **11:321n**

Miami (gemmy euhedral) **10:179**

St. Anne’s mine, Miami **20:(147)**

EUCRYPTITE

United States

New Mexico

Harding mine (earthy; fl. red) **8:123n**

North Carolina

Foote mine **3:36**

EUDIALYTE

Canada

Québec

DeMix quarry **18:(363)**

Kipawa complex, Timiskaming County
19:(335)

Mt. St-Hilaire: **10:104**, **10:107p**, **13:242**,
13:244p; some id as petarosite **13:44**; sub-
hedral to 5 cm, gemmy to 15 mm **21:308–**
309p

Greenland

Ilímaussaq: layers to 1 m thick **24:G22–23h,d,c**;
massive with 3 cm crystals **22:48n**

Narssárssuk pegmatite: crystals to 5 cm; aegirine
and elpidite after to 8 cm **24:G41**, **24:G42p**;
masses **5:121**

Naujakasik (crystals to 10 cm) **24:G23**

Russia (formerly USSR)

Khibiny massif, Kola Peninsula (euhedral to
2.5 cm) **23:437n**

United States

Alaska

Prince of Wales Island **19:331n**

New Mexico

Point of Rocks quarry, Colfax County **15:152**,
15:154p

Wind Mountain, Otero County **20:60n**

EUIDYDYMITE

Canada

Québec

Mt. St-Hilaire (euhedral groups to 2 cm)
21:309p

Poudrette quarry **17:339**, **18:363n**

Greenland

Narssárssuk **5:121n**

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- Southwest mine, Bisbee (minute grains) **24:429n**

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- Québec
- Evans-Lou pegmatite (minute crystals) **3:73**

Germany

- Obersachsen
- Johanngeorgenstadt **8:(517)**
- Schneeberg **3:36, 3:37d, 19:325–326c.p**

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- Metamict **4:218**

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- Minas Gerais
- Ferros **2:12n**
- Jaguaraçu pegmatite (large euhedral; acicular) **25:167p, 25:168**

Canada

- Ontario
- J. G. Cole quarry, near Madawaska (4 cm crystal) **10:155n, 13:84p**
- McCoy beryl mine, near Quadeville ("lyndochite" to 4 cm) **10:155**
- Quadeville area **13:84**
- Rose quartz quarry near Quadeville (blebs) **10:155**

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- Godthåbsfjord area (metamict) **24:G14n**

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- Boron, CA **6:84–91, 19:315–318**
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- Camp Verde, AZ **14:85–90**

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EVEITE

Sweden

- Långban (newly described) **2:83h,c,q**

EWALDITE

Canada

- Québec
- Mt. St-Hilaire (pagoda-shaped crystals to 10 cm) **21:309p**

EZCURRITE

- Toxicity **11:6**

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Sapucaia area **2**:(12), **4**:122

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Roosevelt mine, Custer County (1 mm sprays)
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Italy

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Calagio quarries **18**:269–270p,q

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United States

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12:305

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California

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Colorado

Red Mountain district, Ouray County **10**:358n

“FAROELITE”

See Thomsonite

“FASSAITE”

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Pakistan

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Germany

Baden-Württemberg
Limberg, near Sasbach **8**:305p

United States

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Copper Falls mine, Keweenaw County **23**:M65

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United States

Nevada

Copper King mine, Eureka County **16**:46–47h

Utah

Bingham open pit, Salt Lake County (botryoidal) **21**:484n

FAYALITE

Australia

New South Wales
Broken Hill (ferroan, “knebelite”) **7**:28–29n

Canada

British Columbia
Bluebell mine, Riondel (tabular manganous)
8:36

Italy

Lombardy
Baveno area (masses, crude crystals) **14**:163

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Sweden

Lustigkulla mine (ferroan, “knebelite”) **9**:(113)

United States

California

Coso Hot Springs, Inyo County **8**:(432), **16**:138p

Idaho

Sawtooth batholith (altered, to 10 cm) **24**:194

Oregon

Obsidian Cliffs, Lane County (magnesian, micro tabular, “hortonolite”) **10**:298p, **11**:58n
Three Sister Peaks, Lane County (magnesian manganous, “hortonolite”) **16**:138, **16**:141p

FEITKNECHTITE

South Africa

Cape Province
Middelplaats mine (flaky brown) **22**:284n

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See also names of individual species

Brazil

Minas Gerais

Énio pegmatite, near Galiléia (various species and habits) **12**:72

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Canada

British Columbia

Ice River complex (albite-microcline perthite)
12:224

Ontario

Perth (near) (“perthite,” plagioclase lamellae in microcline) **13**:199p

United States

Arizona

Ray mine (twins to 5 cm) **14**:320

Nevada

Majuba Hill mine (acicular schorl replacing phenocrysts in rhyolite) **16**:70, **16**:71

New Jersey

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New Mexico

Point of Rocks quarry, Colfax County (alkali feldspar) **15**:151

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New South Wales

Old 25 and Wolfram pipes, Kingsgate mines (massive) **16**:282

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San Miquel mine, Lequepalca district **6**:137

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Canada

British Columbia

Red Rose mine **2**:205n

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Japan

Kimpuzan, Yamanashi (“reinite”; after scheelite, 5 cm) **8**:393–394q

Kazakhstan (formerly USSR)

Akschatau (bladed to 3 cm; some labeled “wolframite”) **25**:61

Peru

Junin (4 cm twinned) **7**:188–189p

Portugal

Panasqueira mine (“wolframite” id as) **8**:393–394q,p

Uganda

Nyamulilo mine, Kigezi (micro euhedral) **12**:82p

United States

Colorado

Boulder County (numerous mines) (crystals to 25 mm) **7**:280

Nederland, Boulder County **17**:139–140p

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FERGUSONITE-(Ce), -(Nd), -(Y) and
FERGUSONITE-BETA-(Ce), -(Nd), -(Y)

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Brazil

Minas Gerais

Ferros **2**:12n

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British Columbia

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

Ontario

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J. Gole quarry, near Madawaska: crystals to 7 cm **10**:155–156p; 5 cm crystals **13**:84, **13**:85p

Québec

Evans-Lou pegmatite (fergusonite-(Y); anhedral to 23 cm) **3**:72, **3**:74q

Madagascar

Locality not specified **18**:162n

Malawi

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Species status uncertain

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South Africa
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Queensland
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Gabon
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 to 8 mm **6:238d, 6:240–245p,c,q**

Zaire
 Musonoi mine **20:280**

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United States
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FRANCOISITE-(Nd)

Zaire
 Kamoto-Est mine **20:280**

FRANKLINITE

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 Québec
 Francon quarry (on weloganite “pagodas”)
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 Mt. St-Hilaire: **19:325n, 19:327p; UK#43,**
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 Poudrette quarry **25:210p**

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 Nevada
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United States
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 New Jersey
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United States
 New Jersey
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United States
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Italy

Tuscany
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Germany

Obersachsen
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Australia

Northern Territory
 Mt. Bonnie mine **19:(444)**
 Queensland
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Canada

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France

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Mexico

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- Calhoun mine, Lumpkin County (crystalline) **15:145p, 18:73p, 18:70**
- Findley mine, Lumpkin County: crystalline **15:145p, 18:73p**; some with galena **18:70**
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- Tallapoosa County **18:73p**
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- Ropes mine, Marquette County **17:118–121**
- Montana
- Cooley Gulch, near Butte (Highland Centennial nugget, 1 kg) **24:317–318p**
- Large nuggets **24:317**
- Nevada
- Echo Bay's mine, Round Mountain **24:48n**
- Getchell mine, Humboldt County: **19:(255)**; micro grains **16:19–20**
- Killie mine, Elko County (trace amounts) **18:416**
- Northumberland mine, Nye County (disseminated) **16:40**
- Willow Creek, Pershing County (micro crystals) **22:383n**
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- San Pedro mine, Santa Fe County: **20:391**; hopper crystals **18:361n**; in calcite **20:63**
- Stonewall mine, Socorro County **20:20**
- North Carolina
- Gold Hill, Cabarrus County (prob. locality) (dendritic) **18:77p**
- Reed gold mine, Cabarrus County (nugget) **18:76p**
- Oregon
- Last Chance mine, Baker County **13:398n**
- Utah
- Gold Hill mine (minute drops) **24:20**
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- Lucky Break mine, Skamania County **18:361n**
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- Rib Mountain, Marathon County **12:95**
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- Santa Elena area: **19:271n**; branching crystals **21:501n**; faked octahedral crystals **23:283–284p,q**; loose crystals **18:89c, 18:90p**
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- Clywd
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Nevada
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GONNARDITE

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Victoria
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Germany
Rheinland-Pfalz
Laacher See area, Eifel district: crusts **8**:322n; spheres **10**:95p

United States
Colorado
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South Australia
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Canada
Yukon
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Alabama/Georgia
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Western Australia
Milgun Station **9**:(113)

Canada
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Kazakhstan (formerly USSR)
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GORMANITE

Canada
Yukon
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Mt. St-Hilaire (acicular to 1 cm) **21**:313p

Norway
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Tsumeb (sprays to 1 cm) **24**:235

United States
Nevada
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GOWERITE

South Africa
Cape Province
N'Chwaning II mine (fibers) **22**:285

United States
California
Hardscramble (Hardscrabble) mine, Inyo County **8**:431n

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Brazil
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Canada
Yukon
Rapid Creek (euhedral to 6 mm) **23**:Y22–23p,d,c

United States
Colorado
Indiana and Topeka-Kentucky Giant veins, Ouray County (micro crystals) **25**:373, **25**:374p
Sweet Home mine, Park County (crystals to 6 mm) **10**:333, **10**:334p, **25**:373n
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Bell Pit, Oxford County: **1**:139; colorless rhombs **1**:114; micro crystals, “svanbergite” id as **6**:203
New Hampshire
Palermo #1 mine **4**:125
Virginia
Willis Mountain mine, Buckingham County **23**:(428)

GRAEMITE

United States
Arizona
Cole shaft, Bisbee: after teinite crystals to 2 cm **24**:429n; blades, some after teinite **12**:304p, **12**:306d,h; newly described, platy after teinite **6**:32–34h,d,c,q
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GRANTSITE

United States
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GRAPHITE

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California

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Kalkar quarry, Santa Cruz County **17**:320

San Bernardino County (free-standing crystals) **23**:444

Colorado

Silverton district, San Juan County **10**:358n

Connecticut

Gillette pegmatite, Middlesex County **23**:25

Maine

Mt. Mica, Oxford County **16**:372n

Nevada

Getchell mine, Humboldt County: **19**:(255); massive **16**:20

New Jersey

Buckwheat open pit, Franklin (micro) **14**:188

Sterling Hill (1 mm tabular) **21**:426

New York

Lead Hill (Chilson Hill) mine, Essex County:

18:433n; crystals to 5 mm **14**:25–30c,p

Pennsylvania

French Creek mine (disseminated flakes) **25**:115n

GRATONITE

Namibia

Tsumeb (grains) **8**:T25n

GREAT BRITAIN

See England; United Kingdom

GREECE

Aghia Marina, Seriphos, Kykladhes **22**:304–305s,m

Aghia Triada, Seriphos, Kykladhes **22**:304–305s,m

Almiros, Seriphos, Kykladhes **22**:304s,m

Avessalos, Seriphos, Kykladhes **22**:304s,m

Christiana mine, Laurium, Sterea Ellas **25**:279s

Dráma **19**:337s

Kamaréza mine, Laurium, Sterea Ellas **7**:114–125h,g,m, **17**:183s, **25**:279–280s

Kassandra Peninsula, Macedonia **9**:221s, **9**:222s

Koutalas, Seriphos, Kykladhes **19**:124s, **22**:304s,m

Laurium, Sterea Ellas **4**:262–263, **6**:35h, **7**:114–125h,g,m, **9**:113s, **9**:134s, **11**:299–301s, **13**:170s, **15**:114s, **17**:183–190m,p,h, **17**:189b, **20**:181–182s, **25**:279–280s

Megala Pifka, Laurium area, Sterea Ellas **25**:280s

Mega Livadi, Seriphos, Kykladhes **22**:304m, **22**:305s

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Plaka mine, Laurium, Sterea Ellas **7**:114–125h,g,m, **25**:280s

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Soureza, Laurium area, Sterea Ellas **25**:280s

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GREENLAND

Danish possession; official name, Kalaallit Nunaat

Alkaline igneous areas **24**:G18–47

Amitsoq, Nanortalik area **24**:G15s

Blaafjeld, Uivfaq, Disko Island **24**:G52g,h

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Fiskefjord (Niagununaq), north of Godthåbsfjord **24**:G15s

Fiskenæsset (Qeqertarsuaq) region, south of Godthåb (Nuuk) **11**:93–96m,h,g,p, **24**:G10–14m,g

Frederik VII mine, near Julianehåb (Qaqortoq) **24**:G15s

Frederikshåb (near) **24**:G15s

Gardiner complex, beyond head of Kangerdlugssuaq (Kangerlussuaq) Fjord **16**:485–494h,g,m,p, **18**:357s, **24**:G53–56p,h,g

Godthåb district **18**:357s

Godthåbsfjord (Nuup Kangerlua) area, east of Godthåb (Nuuk) **24**:G10m, **24**:G14–15g

Grønmedal-lka complex, east of Kûngnât (Kuunaat) complex **24**:G47g

Igdlunguak **5**:124s

Ilímaussaq alkaline complex, Tunugdliarfik (Tunulliarfik) Fjord, east of Narssaq (Narsaq) **8**:390s, **8**:517s, **22**:48s, **24**:G18–28m,h,g,p

Ivigtut (Ivittut), Arsuk Fjord (Ilorput) **4**:126s, **24**:G29–36h,m,g,p

Ivigtut-Narssárssuk region, Samuel G. Gordon 1923 expedition to **5**:59–66, **5**:115–127h,p,m

Ivisártoq (Ivisaartoq) Peninsula, Godthåbsfjord area, east of Godthåb (Nuuk) **2**:27h,g, **2**:28–29s, **2**:101h, **2**:102m, **18**:357s, **24**:G14s

Kangerdluarsuk (Kangerluarsuk) Fjord, east of Sukkertoppen (Maniitsoq) **5**:123–127h,g,p, **24**:G15g,s

Kobbermine Bugt, Ivigtut area **24**:G15s

Kræmer ø intrusion, Kangerdlugssuaq (Kangerlussuaq) **24**:G53g

Kûngnât (Kuunaat) complex, near Arsuk Fjord (Ilorput) **24**:G47g

Kvanefjeld area, Ilímaussaq complex **8**:517s, **24**:G23s, **24**:G26–27s

Lersletten (Naternaq), east of Egedesminde (Aasiaat) **24**:G15s

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Narssárssuk (Narsarsuaq) pegmatite, Igaliko complex, between Tunugdliarfik (Tunulliarfik) and Igaliko (Igalikup) fjords **5**:116–123h,g,p, **7**:79–82g, **18**:18:357s, **24**:G37–47p,h,m,g

Naujakasik, Tunugdliarfik (Tunulliarfik) Fjord **8**:517s, **24**:G23s

Navarana Fjord, northeast Freuchen Land **24**:G49

Niakornaq, east of Disko Island **24**:G52

Nordre Strømfjord (Nassuttoq), midway between Hosteinsborg (Sisimiut) and Egedesminde (Aasiaat) **24**:G15g,s

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Qaqarsuk carbonatite complex, southeast of Sukkertoppen (Maniitsoq) **24**:G48p,g

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Sarfartóq carbonatite complex, near Søndre Strømfjord (Kangerlussuaq) **24**:G48g

Scaphites Ravine, Kugsinínguak **24**:G52

Sermiligárssuk (Sermiligaarsuk) Fjord, Ivigtut area **24**:G15s

Sermitsiaq Island, Godthåbsfjord, east of Godthåb (Nuuk) **24**:G14s

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Tunugdliarfik **5**:123–127h,g,p

Tupertalik, east of Sukkertoppen (Maniitsoq) **24**:G15g,s

Uivfaq (Uiffaq), Disko Island **24**:G52g

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Bleiberg district (crusts) **17**:363

Canada

British Columbia

Silver Standard mine (crystals) **2**:204

Northwest Territories

Nanisivik mine (coating) **21**:533

England

Derby

Fall Hill quarry, Ashover (coatings; poss. hawleyite) **14**:17

Mill Close mine (coatings; poss. hawleyite) **14**:17

Greece

Laurium area (powdery) **7**:117n

Namibia

Tsumeb (grains, powder; some zincian) **8**:T25–26n, **8**:T69p

New Zealand

Tui mine (thick crusts) **6**:29

Scotland

Strathclyde

Bishopton railway tunnel **4**:79

Strathclyde/Dumfries and Galloway

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

Slovenia (formerly Yugoslavia)

Mežica mine (powdery coating) **22**:104n

United States

Arkansas

Rush Creek district, Marion County (traces) **24**:298

Arizona

Bisbee district (probably hawleyite) **12**:306

California

Kalkar quarry, Santa Cruz County **17**:320n

Colorado

Camp Bird mine, Ouray County **7**:303n, **10**:358n

Idarado mine, Telluride **10**:329n

Michigan

White Pine mine, Ontonagon County (traces) **23**:M65

New Jersey

Paterson area, Passaic County (micro crystals) **9**:173, **9**:179p

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Sterling Hill mine (minute acicular) **10**:164p

New Mexico

Kelly mine, Socorro County **20**:20

Tennessee

Jefferson City (near), Jefferson County (coatings) **3**:91

Wales

Dyfed

Bwlch-Glas mine (yellow films) **13**:151n

GREIGITE

Canada

Québec

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"HEIKOLITE"

Amphibole, poss. = crossite

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- New Mexico
Burro Ridge, Sierra County **16:139, 16:143p**
Point of Rocks quarry, Colfax County **15:152**
- New York
Caledonia mine, St. Lawrence County (unal-
tered crystals) **15:215n**
Sterling mine, Jefferson County (botryoidal;
most crystals are magnetite after) **15:204,**
15:205–207p
- Oregon
Obsidian Cliffs, Lane County (after phlogo-
pite or biotite) **12:44**
Summit Rock, Douglas County (oriented on
hypersthene) **16:137c, 16:140p**
- Pennsylvania
French Creek mine (micaceous; some mag-
netite after) **25:115**
- Texas
Colquitt-Tignor mine, Brewster County (plates)
21:230
- Utah
Drum Mountains, Juab and Millard counties
10:275
Keg Mountains, Juab County (plates to 7 cm)
10:275
- Thomas Range and vicinity: after garnet
25:59n; thin plates to 2 cm **10:270–271p**
Wah Wah Mountains **10:276**
- Washington
Denny Mountain, King County (specular)
8:17
- Wisconsin
Rib Mountain, Marathon County (thin tabu-
lar to 3 cm, some in quartz) **12:95**
-
- HEMATOLITE**
-
- Sweden**
Nordmarks Odalfält mines, Värmland **1:165n**
-
- HEMATOPHANITE**
-
- Sweden**
Jakobsberg, Värmland **1:166h**
-
- HEMIHEDRITE**
-
- Iran**
Seh-Changi deposit (micro crystals) **11:295–**
296q,d
- United States**
Arizona
Florence mine, Pinal County **1:80h,q**
Potter-Cramer and Rat Tail claims, Maricopa
County **11:265n**
Rat Pack claim, Maricopa County **1:80h,q**
-
- HEMIMORPHITE**
-
- Australia**
New South Wales
Broken Hill (crystals) **7:31**
Northern Territory
Moline **12:110n**
South Australia
Beltana mine (some tabular, wedge-shaped)
22:453c,d
Billy Springs mine **12:107n**
Puttapa Zinc mine **15:110p**
Reaphook Hill, Flinders Range (after smith-
sonite) **12:105n**
Western Australia
Ashburton Downs (micro crystals) **24:213**
Reaphook Hill, Flinders Range (massive)
9:23
- Brazil**
Minas Gerais
Vazante area (crystals) **6:284, 6:286p**
São Paulo
Furnas mine (crystals to 1 cm) **6:283, 6:284p**
- Canada**
British Columbia
Oxide claim, southeast of Ymer **2:208**
Québec
Mt. St-Hilaire (minute spheres, crusts) **21:314**
- China**
Yunan (locality not specified) (deep blue botry-
oidal) **24:234n**
- England**
Cornwall
Greystones quarry (crystals) **23:434n**
Derby
Rutland Cavern, Matlock Bath area **14:23**
- Germany**
Rheinland-Pfalz
Friedrichsseggen mine (botryoidal aggregates)
15:342n
- Greece**
Plaka mine, Laurium (micro druses) **7:122**
- Greenland**
Narsarsuk ("calamine"; fibrous) **5:120**
- Italy**
Sardinia
Domusnovas (yellow crystals) **15:372**
Iglesias (bright blue botryoidal) **15:372p**
Santa Lucia fluorite mine **15:372n**
Seddas Moddizia mine **15:372n**

Mexico

- Chihuahua
 - El Potosí mine, Santa Eulalia district (to 7 cm) **22:390n**
 - San Antonio mine, Santa Eulalia district: crystals to 1 in **14:385**; tabular to 5 cm **2:230p**
- Durango
 - Magistral (locality questioned) (blue botryoidal) **5:76**
 - Mapimi **2:230p**
 - Santo Niño mine (blue botryoidal) **21:257n**

Namibia

- Tsumeb **8:T26n, 8:T64p**

Scotland

- Dumfries and Galloway
 - New Glencrieff mine, Wanlockhead (stalactitic) **12:249p**

Slovenia (formerly Yugoslavia)

- Mežica mine (fibrous) **22:104n**

United States

- Arizona
 - Cole shaft, Bisbee district (crystals to 10 cm) **12:306p, 12:307**
 - Glove mine (bluish botryoidal) **14:305**
 - Magma mine **14:(82)**
 - Mammoth mine, Pinal County (crystals) **11:169**
 - McCrackin mine, Mohave County **15:112p**
 - Red Cloud mine, La Paz County (micro bladed) **11:149p**
 - 79 mine: blue botryoidal **23:275p, 23:276**; laths to 12 mm, botryoidal, some chrysocolla after **3:255, 3:270p**
 - Silver Bill mine, Cochise County: micro **11:261, 11:264**; some hollow hemispheres **14:130**
 - Southwest mine, Bisbee district: small crystals **12:307**; 2 mm crystals **24:429n**
 - Uncle Sam shaft, Bisbee district (2 mm crystals) **24:429n**
- Arkansas
 - Rush Creek district, Marion County (thin tabular) **24:298**
- California
 - Blue Bell mine, San Bernardino County (crystals) **8:495**
 - Darwin district, Inyo County **8:(432)**
 - Defiance mine, Inyo County **15:15n**
 - Lead Mountain, San Bernardino County **8:(432)**
 - Zinc Hill mine, Inyo County (crystalline layers) **6:112**
- Colorado
 - Adams shaft, Leadville district (drusy quartz on) **16:193n**
 - Henriett mine, Leadville district **16:193n**
 - Hilltop mine, Park County **16:191n**
 - Italian Mountain area, Gunnison County **15:86n**
 - Little Jonny/Ibex mine, Leadville district (with aurichalcite) **16:(190), 16:193**
 - Maid of Erin mine, Leadville district **16:193**
 - Moyer mine, Leadville district **16:(182)**
 - Tucson mine, Leadville district (botryoidal) **16:(181)**
- Idaho
 - Bunker Hill mine (spheres) **12:344–345p**
- Massachusetts
 - Loudville mine, Hampshire County: bladed **6:297**; micro crystals **13:46**
- Montana
 - Black Pine mine, Granite County (bladed to 1 cm) **23:480p, 23:482**
- Nevada
 - Richmond mine, Eureka County (velvety acicular) **23:425n**

New Jersey

- Buckwheat open pit, Franklin (micro) **14:188–189p**
 - Sterling Hill: **1:(86)**; “maggot ore,” Mud Zone finds **19:274**; micro blades **25:98p, 25:100**
- New Mexico**
- Stephenson-Bennett mine, Dona Ana County (bladed to 3 cm) **4:33p**
- Tennessee**
- Jefferson City (near), Jefferson County **3:90–91**
 - Sweetwater, Monroe County **14:367p**
- Utah**
- Dry Canyon, Tooele County **21:(484)**
 - Hidden Treasure mine, Tooele County **24:48n**

Wales

- Dyfed
 - Bwlch-Glas mine **13:153**

Zambia

- Broken Hill mine (crystals) **11:348**

HENRITERMIERITE

Morocco

- Tachgagalt deposit, Anti-Atlas Mountains (newly described; minute grains) **1:136h,q**

South Africa

- Cape Province
 - N’Chwaning II mine (crystals to 3 mm) **22:286–287p**
 - Wessels mine (micro crystals) **22:286–287p**

HENRYITE

United States

- Arizona
 - Campbell shaft, Bisbee (micro grains) **24:429**

HERCYNITE

Germany

- Rheinland-Pfalz
 - Laacher See area, Eifel district **8:316**

HERDERITE

See also Hydroxylherderite

Herderite/hydroxylherderite series: nomenclature, morphology, etc. **10:5–11h,q,c,d**

In pegmatite environments **4:124**

Most specimens actually hydroxyl-herderite **10:5**
Numerous world localities **4:120, 4:124**

Brazil

- Minas Gerais
 - Énio pegmatite, near Galiléia **12:(71)**
 - Sapucaia area **2:(12)**
 - Virgem da Lapa mine: 8 cm gemmy blue **7:130–131p**; 18 cm **8:59n, 8:60p**; 5 cm doubly terminated **7:309p**

England

- Cornwall
 - Botallack district **24:280n**

United States

- California
 - Blue Chihuahua mine, San Diego County (crystals to 5 cm) **8:507, 8:508p**
 - Himalaya dike system, San Diego County **8:473n**
- Connecticut
 - Oxford, New Haven County (prismatic) **3:36–37p**
- Five localities **3:37n**

Maine

- Bell Pit, Oxford County (nodules) **1:114**
- Fisher’s Lodge, Sagadahoc County (“world’s largest and finest”) **1:139n**

HERSCHELITE

Italy

- Sicily
 - Aci Castello **8:(390), 9:(113)**

Northern Ireland

- County Antrim
 - Island Magee (poss. chabazite) **13:44**

United States

- Arizona
 - Horseshoe Dam area, Maricopa County: **11:264**; micro “cymbal”-shaped **12:44**; 1 mm plates **14:116p**

HERZENBERGITE

Bolivia

- Candelaria mine, Poopó district (plumboan, “montesite”) **6:133**
- María Teresa mine, Challapata district (masses) **6:132**

HESSITE

Canada

- British Columbia
 - Glacier Gulch South Side Group, near Smithers **2:204, 15:(90)**
 - Grotto group, southwest of Hazelton (massive) **2:206–207**
 - Mt. Washington mine, Vancouver Island **15:(90)**
- Québec
 - Mt. St-Hilaire (minute crystal) **23:429n**

Romania

- Boteş mine, western Transylvania gold district: **13:(374)**; auriferous **13:398q**

United States

- Arizona
 - Campbell shaft, Bisbee **24:429n**
 - West Side mine, Tombstone district (unconfirmed) **11:253**
- California
 - Jamestown mine, Tuolumne County (crystals to 3 mm) **25:13**
- Colorado
 - Nancy mine, Boulder County **13:398n**
 - Rex Hill area, Boulder County **13:398n**
 - San Juan Mountains **10:358n**
- Oregon
 - Last Chance mine, Baker County **13:398n**

“HESSONITE”

See Grossular

HETAEROLITE

Australia

- South Australia
 - Beltana mine (bipyramidal to 3 mm) **22:453**

United States

- Arizona
 - Campbell shaft, Bisbee district (botryoidal) **12:307**
 - Cole shaft, Bisbee district (drusy) **12:307**
 - Junction shaft, Bisbee district (reniform) **12:307**
 - 79 mine (coatings) **3:251**
 - White-Tailed Deer shaft, Bisbee (6 mm crystals) **24:429**
- California
 - Mohawk mine, San Bernardino County **8:432n**

“HETEROBROCHANTITE”

See Antlerite

HETEROGENITE

Australia

- Queensland
 - Mt. Cobalt **23:(432)**

Namibia

- Tsumeb: **8:(390)**; coatings, masses **8:T26n, 8:T59p**

United States

- Nevada
 - Key West mine, Clark County **22:(383)**

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In pegmatite environments **4**:112
 Vs. purpurite **6**:201
Brazil
 Minas Gerais
 Énio pegmatite, near Galiléia (masses) **12**:70
 Sapucaia area **2**:(12)
 Telfirio mine (manganiferous) **14**:234
 Paraíba
 Alto Benedito pegmatite (subhedral to 10 cm) **22**:185n
United States
 Alabama
 Williams pegmatites, Coosa County (massive) **6**:69–72
 Maine
 Newry area (vs. purpurite) **6**:201
 New Hampshire
 Palermo mine **5**:278n

HEULANDITE

Australia
 New South Wales
 Garrawilla **19**:391p, **19**:394c
 Kembla Grange **6**:251n
 Prospect quarry (micro) **25**:190p,c
 Unanderra **19**:392–394d,c,q
 Victoria
 Phillip Island **19**:455, **19**:460q
Brazil
 Santa Catarina
 Lages (south of) **2**:13n
Denmark
 Færoe Islands (12 localities) **12**:17d
England
 Cornwall
 Wheal Hazzard, near St. Just **24**:280
Iceland
 Seven localities (crystals to 7 cm) **12**:17p,c,d
India
 Panwell (Panvel?), Maharashtra **11**:115
 Poona area quarries **7**:258p, **7**:260
 Sayad Pimpri quarry, Nasik (10 cm crystal) **21**:489n
Ireland
 Locality not specified (micro) **10**:174
Italy
 Lombardy
 Baveno area **14**:164
 Tuscany
 San Piero in Campo area, Elba **16**:358d
Russia (formerly USSR)
 Krasnoyarsky Kray (red, to 7 cm) **23**:433n
South Africa
 Transvaal
 Palabora mine (to 1 cm) **22**:259p
United States
 Arizona
 Malpais Hill, Pinal County **14**:111–112p
 Mammoth mine, Pinal County: **11**:264n; micro twinned **11**:160d
 New Cornelia mine, Pima County (small clear euhedral) **14**:296
 New Water Mountains, Yuma County **14**:(119)
 Winkelman (south of), Pinal County **14**:109n
 California
 Himalaya dike system, San Diego County **8**:472
 Colorado
 Italian Mountain area, Gunnison County **15**:86n
 Wolf Creek Pass, Mineral County (micro) **7**:272
 Connecticut
 Thomaston Dam, Litchfield County **10**:(241)
 Hawaii
 Puu o Ehu quarry, Oahu **15**:96p–97

Michigan
 Keweenaw County **23**:M66
 New Jersey
 Chimney Rock quarry, Somerset County (micro) **9**:29
 Paterson area, Passaic County **9**:171, **9**:174p, **9**:178p
 Route 80 roadcut, Passaic County (crystals to 7.5 cm) **1**:174
 Route 78 and Shunpike Rd., Union County (micro) **4**:232
 Pennsylvania
 French Creek mine **25**:(115)
 Washington
 Skookumchuck Dam, Thurston County (crystals to 2.5 cm) **3**:31p
 Wyoming
 Yellowstone National Park (micro) **12**:30–32q

HEXAHYDRITE

Canada
 British Columbia
 Spatum claim, near Cache Creek **15**:92n
 Yukon
 Rapid Creek (2 mm platy) **23**:Y38
Greenland
 Sarfartôq complex (powdery) **24**:G49n
United States
 Arizona
 Campbell shaft, Bisbee district **12**:307

HEXAHYDROBORITE

Russia (formerly USSR)
 Solongo deposit, Ural Mountains (announced) **9**:115h,q

HEYITE

United States
 Nevada
 Betty Jo claim, White Pine County: **16**:47h; newly described, crude minute crystals **5**:75h,c,q

HIBSCHITE

See also “Hydrogrossular”
Canada
 Québec
 Mt. St-Hilaire: **2**:269, **2**:271q; micro octahedral **2**:142

HIDALGOITE

Australia
 Western Australia
 Ashburton Downs **24**:213
Namibia
 Tsumeb (masses) **8**:T26n
United States
 Utah
 Gold Hill mine: crusts **24**:17; micro botryoidal **2**:212–213q

HILAIRITE

Canada
 Québec
 Mt. St-Hilaire: **9**:(114), **10**:104, **13**:246n; crystals to 4 mm **21**:314d,c, **21**:316p
England
 Yorkshire
 Boulby mine: **25**:44; 2 mm crystals **24**:392n
United States
 Texas
 Locality not specified **2**:260d

HILGARDITE

England
 Yorkshire
 Boulby mine: **25**:44; 2 mm crystals **24**:392n
United States
 Texas
 Locality not specified **2**:260d

HILLEBRANDITE

Saudi Arabia
 Nugrah **8**:(391), **9**:(113)

HINGGANITE-(Ce), -(Y), -(Yb)

Malawi
 Mt. Malosa region (hingganite-(Y); micro crystals, fans) **25**:34c
Norway
 Langesund area quarries (hingganite-(Y)) **23**:(436)

HINSDALITE

Australia
 Tasmania
 Sylvester mine: **8**:(517); after pyromorphite **8**:391–392p
 Western Australia
 Ashburton Downs (corkite-hinsdalite; minute crystalline) **24**:211
Germany
 Rheinland-Pfalz
 Ems district **15**:335
United States
 Arizona
 Mineral Park mine, Mohave County (minute crystals) **11**:243p
 Colorado
 Golden Fleece mine, Hinsdale County (12 mm crystals) **7**:299

HISINGERITE

Canada
 Québec
 Mt. St-Hilaire (some after aegirine) **21**:314
United States
 Arizona
 Bisbee district **12**:(307)
 Mammoth mine, Pinal County (earthy) **11**:169
 Colorado
 Italian Mountain area, Gunnison County **15**:86n

HISTORY OF MINERALOGY

At U.S. colleges, early 19th century **19**:150
 Australia **19**:357–364
 Berzelius, Jöns Jacob **19**:293–295
 Historical Notes on Mineralogy (Lawrence H. Conklin) **18**:369–372, **18**:423–427
 Historical Record, The (Ron Bentley) **14**:133–135
Science of Minerals in the Age of Jefferson, The **10**:314b

HJELMITE

Sweden
 Stripasen **8**:517h

HOCARTITE

United States
 Arizona
 Campbell shaft, Bisbee **24**:429n

HOCHELAGAITE

Canada
 Québec
 Mt. St-Hilaire (UK#50; silky fibrous) **21**:314–315p

Norway
 Langesund area quarries **23**:(436)

“HOCHSCHILDITE”

Alteration product of teallite
Bolivia
 Monserrat district, Oruro Dept. (masses) **6**:136n

HODGKINSONITE

United States
 New Jersey
 Franklin mine (micro crystals) **13**:229–232p,q,c
 Sterling Hill mine (coatings, micro druzes) **13**:229–232p

GENERAL INDEX

HODRUSHITE

- Czech Republic (formerly Czechoslovakia)**
Banská Hodrusa (newly described; 5 mm crystals) **2:29h,q**
- United States**
Arizona
Campbell shaft, Bisbee (micro laths) **24:432**

HOERNESITE

See Hörnesite

HOHMANNITE

- Chile**
Chuquicamata **9:329**

HOLDAWAYITE

- Namibia**
Kombat mine **22:422h**

HOLDENITE

- United States**
New Jersey
Franklin **12:373–374h, 12:375q**
Sterling Hill mine **12:374–375p,q, 13:(37)**

HOLLANDITE

- Australia**
South Australia
Beltana mine (prismatic to 4 mm) **22:453**
- Greece**
Laurium-Kamaréza road (prismatic) **25:279**
- South Africa**
Cape Province
Kalahari manganese field (minute grain) **9:151n**
- United States**
Arizona
Mammoth mine, Pinal County (films, crusts; “psilomelane” id as) **11:169**
Mistake mine, Yavapai County (id as ramsdellite) **14:333p,q**
Yavapai County (locality not specified) (6 mm pseudocubic) **12:183n**

HOLMQUISTITE

- Australia**
Western Australia
Greenbushes tinfield (clusters to 15 cm) **9:83p**
- United States**
New Mexico
Harding mine (needles) **8:123**

HOLTITE

- Australia**
Western Australia
Greenbushes tinfield (fibrous) **9:83p**
- Russia (formerly USSR)**
Mt. Ploskaja, Kola Peninsula **24:389n**

HONDURAS

- El Plomo mine, Ojojoma district, Tegucigalpa **10:247s**

HONESSITE

- United States**
Kentucky
Hall’s Gap, Lincoln County (confusion about species status) **2:17h**

HOPEITE

- Germany**
Rheinland-Pfalz
Ems district **15:335**
- Zambia**
Broken Hill: associated with fossil bones **11:344–346p,d,c; crystals to 2 cm 11:319**
- Zimbabwe (formerly Southern Rhodesia)**
Locality not specified (crystals to 2 cm) **4:280**

HORNBLLENDE

See also Magnesiohornblende

Brazil

- São Paulo
Jacupiranga mine **15:268**

Canada

- Ontario
Lake Clear-Kuehl Lake area, Renfrew County **13:213**
Silver Crater mine (Basin property), Hastings County: crystals over 3 m **10:155n; crystals to 3.3 m in situ 13:201**
- Québec
Mt. St-Hilaire (prismatic to several mm) **21:315**

Germany

- Rheinland-Pfalz
Laacher See area, Eifel district **8:319d, 8:320c**

Norway

- Skarreggerbukta, Finnmark **23:435n**

United States

- Arizona
Bisbee district **12:307**
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New Cornelia mine, Pima County **14:296n**
- California
Jensen quarry, Riverside County **15:288n**
- Colorado
Italian Mountain area, Gunnison County **15:86n**
- Massachusetts
Chester emery mines (massive) **9:240**
- Oregon
Summit Rock, Douglas County **16:139c, 16:143p**
- Pennsylvania
French Creek mine **25:115n**

HÖRNESITE

- Czech Republic (formerly Czechoslovakia)**
Třebosko deposit (T-1 vein) (on symplectite) **22:212**

Macedonia (formerly Yugoslavia)

- Allchar **24:441**

Romania

- Cavnik **22:437p**

“HORTONOLITE”

See Fayalite

HOWIEITE

United States

- California
Laytonville district, Mendocino County **8:433**

HOWLITE

Canada

- Nova Scotia
Bras d’Or Lake, Cape Breton Island (cm-sized crystals) **24:388**

HUANGHOITE

Greenland

- Qaqarsuk complex (crystalline aggregates) **24:G48n**

“HUANTAHAYITE”

A poorly defined sodium/silver chloride

Chile

- Iquique area, Tarapacá (crystals and cleavages) **15:68**

HÜBNERITE

- Vs. ferberite, wolframite **8:393**

Bolivia

- Quimsacoya mine, Huanuni district **6:137**
Santa Isabelle mine, Conde-Auque district **6:137**

China

- Chenzhou, Hunan (crystals to 10 cm) **21:488n**

Peru

- Casapalca, Junin **9:36n**
Huallapon mine, Ancash (crystals to 15 cm) **9:36n**

United States

- Arizona
Cole and White Tailed Deer shafts, Bisbee (grains) **24:432**

California

- Colorado Hill, Alpine County (sprays to 7.5 cm) **22:37, 22:38p**
Zaca mine, Alpine County (bladed to 2 cm) **22:37, 22:38p**

Colorado

- Adams mine, San Juan County (crystals to 15 cm) **7:299p, 7:302**

- American Tunnel mine, San Juan County **7:302n**

- Andes mine, Park County (gemmy to 7.5 cm) **7:291n**

- Anglo Saxon and North Star mines, San Juan County **7:302n**

- Home Sweet Home mine (see Sweet Home mine)

- Red Bonita mine, San Juan County: crystals to 15 cm **7:299p, 7:302; 10 cm euhedral 2:108**

- Ruby mine, San Juan County (gemmy to 12 mm) **7:301**

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

- Sweet Home mine, Park County (gemmy) **10:337**

- Yukon mine, Silverton district **7:302n, 10:331n**

Montana

- Black Pine mine, Granite County **23:480p, 23:482**

New Jersey

- Franklin/Sterling Hill **10:164–165c,q**

HUNGARY

- Báňa (formerly Rezbánya) **13:398s**

- Csordakút **19:30s**

- Károly mine, Gyongyosoroszi **18:408, 18:409p**

- Verespatak (see Romania)

HUNTITE

Australia

- Western Australia
132 North deposit, Widgiemooltha district (massive) **25:291n**

Brazil

Bahia

- Boqueira mine, near Oliveira do Brejinho (massive) **6:284, 6:288pp**

United States

Nevada

- Ala-Mar deposit, Nye County **16:47–48h**

HUREAULITE

- Four world localities **10:148h**

- In pegmatite environments **4:122**

- Numerous world localities **4:119–120, 4:122**

Brazil

Minas Gerais

- Lavra da Criminoso, near São Jose da Safira (prismatic to 7 mm) **10:147–151c,d,p,q**

Paraíba

- Alto Benedito pegmatite (crystalline masses) **22:185n**

United States

Alabama

- Williams pegmatites, Coosa County (some euhedral) **6:69–72**

Maine

- Bennett quarry, Oxford County **25:(183)**

South Dakota
Tip Top mine: **17:240q**; crystals to 3.2 cm
17:242p,c

HURLBUTITE

Finland

Viitaniemi, near Eräjärvi: **9:(113)**; fine-grained
4:123

United States

Montana

Butte (east of) (2.5 cm crystals) **16:497**

New Hampshire

Smith mine, Sullivan County: **16:(497)**; prismatic to 2.5 cm **4:123**

South Dakota

Tip Top mine (micro spheres) **17:242p**

HUTCHINSONITE

Peru

La Libertad mine, Quiruvilca (1 cm laths)
16:459–460p,q

Quiruvilca (crystals to 16 mm) **8:394p**

Switzerland

Lengenbach quarry **8:276q, 8:279q**

HYALOPHANE

Bosnia-Herzegovina (formerly Yugoslavia)

Sarajevo (twinned, to 10 cm) **22:393n**

Zagradski Creek, near Busovaka **16:306n**

New Zealand

Culverden, Pahau River (transparent 2 mm crystals) **14:49p**

Russia (formerly USSR)

Slyudyanka, Lake Baikal district (large crystals) **1:59–60**

“HYDROANDRADITE”

South Africa

Cape Province

Wessels mine (micro grains) **22:287**

HYDROBASALUMINITE

United States

Arizona

Lavender pit (Holbrook extension), Bisbee district **12:307**

Southwest mine, Bisbee district (blades to 3 cm) **12:307**

“HYDROBIOTITE”

Interstratified biotite and vermiculite

South Africa

Transvaal

Messina district **22:193**

HYDROBORACITE

History **9:379h**

Seven world localities **4:21–22h**

Turkey

Bigadiç, Anatolia **10:124n**

United States

California

Boron, Kern County **8:432n**

Lila C. mine, Ryan, Death Valley **9:379–381h,d,p**

Terry Borate mine, Inyo County (sprays to 3 cm; some radial, poss. after colemanite) **8:503–504p**

Thompson mine, Inyo County (crystals to 2.5 cm) **4:21–23p**

HYDROCALUMITE

Germany

Rheinland-Pfalz

Laacher See area, Eifel district **8:316d, 8:317**

HYDROCERUSSITE

Canada

Québec

Mt. St-Hilaire (crusts, minute prisms) **21:315**

England

Somerset

Merehead quarry, near Cranmore: crystals to 6.5 cm **8:300p**; some cerussite after **8:301–302**

Greece

Kamaréza mine, Laurium (minute tabular in slag) **7:124**

Namibia

Tsumeb (some after euhedral cerussite) **13:140–141p**

Scotland

Strathclyde/Dumfries and Galloway

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

United States

Arizona

Lavender pit (near), Bisbee (coating) **24:432**

Mammoth mine, Pinal County (crystals to 15 mm) **11:173d**

Idaho

Bunker Hill mine (cerussite replacing 2 cm crystals) **12:345p**

HYDRODRESSERITE

Canada

Québec

Francon quarry **9:105p**

HYDROGLAUBERITE

Chile

Salar de Pintados, Tarapacá **1:14n**

“HYDROGROSSULAR”

Hibschite-katoite series

Canada

Québec

Mt. St-Hilaire (euhedral to 6 mm) **21:315**

South Africa

Cape Province

Wessels mine (micro grains) **22:287**

HYDROHETAEROLITE

United States

Arizona

Campbell shaft, Bisbee district **12:307**

Colorado

Wolfstone mine, Leadville district: **16:183h**; botryoidal **7:288**

Utah

Gold Hill mine **24:17**

HYDROHONESSITE

Australia

Western Australia

132 North deposit, Widgiemooltha district (powdery) **25:287**

HYDROMAGNESITE

Brazil

Bahia

São Felix mine (needles to 3 cm) **8:383, 8:384–385p**

Canada

Yukon

Rapid Creek (silky masses) **23:Y38**

Iran

Dovez mine, Minab district (bladed to 3 cm) **4:18h**

Soghan mine, Esfandaque district (bladed to 10 cm) **4:18–20p,d,c,q**

Turkey

Kop Krom mine, west of Erzerum (crusts; some after brucite) **9:284–285, 9:287p**

United States

California

Jensen quarry, Riverside County (crystals) **15:288n**

New Idria mine, San Benito County (minute balls) **8:459–460p,q**

Nevada

Gabbs (near), Nye County **12:394**

Pennsylvania

Cedar Hill quarry, Lancaster County (“lancasterite” crystals) **2:40**

Wood’s mine, Lancaster County (“lancasterite” crystals) **2:39–40**

Pennsylvania/Maryland

Line pit, State Line district (2 mm acicular) **12:154**

“HYDROMICA” GROUP

See also “Hydrobiotite”; “Illite”

South Africa

Cape Province

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“HYDROMUSCOVITE”

See “Illite”

“HYDRONEPHELITE”

Mixture

Canada

Ontario

Davis Hill (masses) **21:244**

“HYDROPHILITE”

Poss. = antarcticite or sinjarite

Toxicity **11:6**

HYDROTALCITE

France

Val Croze, Gard (cuprian aluminian) **23:434n**

United States

New Jersey

Franklin mine **10:161**

HYDROTUNGSTITE

Bolivia

Calacalani, Oruro **12:85h, 12:86p**

HYDROXYAPOPHYLLITE

Nomenclature revisions in the apophyllite group **9:95–98**

Canada

Québec

Mt. St-Hilaire (tabular to 6 cm) **21:315**

India

Kandivali, near Bombay **9:96p, 9:98**

Mexico

Guanajuato (locality not specified) (crystals to 3 cm) **9:95, 9:98**

South Africa

Cape Province

N’Chwaning I & II mines (to 8 cm) **22:287**

Wessels mine: manganoan calcite after 12 cm crystals **22:287**; tabular to 6 cm **24:368**

Kimberley (crystals to 6 cm) **9:95–96p**

United States

New Jersey

Bergen Hill **9:98n**

Prospect Park **9:98n, 9:174n**

North Carolina

Ore Knob mine, Ashe County (druses) **9:95**

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Australia

Western Australia

Milgun Station **12:(110)**

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Gardiner complex (some sprays in “melanite” andradite) **16:488–489p**
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Kop Krom mine, west of Erzerum (thin prismatic to 1 cm) **9:286**
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- United States**
California
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- HYDROZINCITE**
- Australia**
New South Wales
Broken Hill (some after smithsonite) **7:30**
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Moline (acicular) **12:110**
South Australia
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- England**
Derby
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- Slovenia (formerly Yugoslavia)**
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- Zambia**
Broken Hill **12:(394)**
- “HYPERSTHENE”
- Intermediate member of enstatite-ferrosilite series*
- Canada**
Québec
Mt. St-Hilaire (2 mm prismatic) **21:315**
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Rheinland-Pfalz
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- United States**
Oregon
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Yukon

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Colorado
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ICELAND

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IDAHO

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Arizona mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m

B and B deposit, Big Creek district, Valley County **10**:301s

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Blackbear mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281

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Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Caledonia mine, Kellogg area, Coeur d'Alene district, Shoshone County **12**:341m, **12**:343–346h,s, **13**:275m, **13**:282

Centerville (near), Boise County **16**:152s, **19**:332s

Clark County **18**:244s

Coeur d'Alene district, Shoshone County **13**:273–285h,g,m,p

Custer mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281s

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Emerald Creek garnet area, near Fernwood, St. Joe National Forest, Benewah County **11**:57h

Evolution mine, northwest of Osburn, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Hercules mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Hypotheek mine, French Gulch, south of Kingston, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Idaho Minerals **20**:489b

Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m, **13**:282

Last Chance group, Kellogg, Coeur d'Alene district, Shoshone County **12**:341m, **12**:342–346s

Last Chance mine, Atlanta district, Elmore County **18**:84s

Little Giant mine, Mullan area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

Lookout Mountain mine, south of Pinehurst, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Lucky Peak Dam site, east of Boise **23**:424s

Luella mine, Latah County **24**:55h

Midnight mine, Mullan area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280s

Moscow [Idaho] Opal Mines, The **11**:51b

Mullan area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280

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Omaha mine, Kellogg area, Coeur d'Alene district, Shoshone County: **13**:275m, **13**:282; see also Idaho—Caledonia mine

Ontario mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m

Owyhee County **22**:382s

Pappoose Creek (see Squaw Creek)

Pontiac (Terrible Edith) mine, east of Murray, Coeur d'Alene district, Shoshone County **13**:274m, **13**:282

Poor Man's lode, Owyhee County **19**:325–326s

Quaker adit, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m, **13**:283

Russel mine (tunnel), Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281

Sandow mine, Kellogg area, Coeur d'Alene district, Shoshone County: **13**:275m, **13**:282; see also Idaho—Caledonia mine

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Senator Stewart mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m, **13**:282–283

Sherman mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:280–281

Sierra Nevada mine, Kellogg area, Coeur d'Alene district, Shoshone County **12**:341m, **12**:342–346s, **13**:275m, **13**:282

Snowstorm mine, east of Mullan, Coeur d'Alene district, Shoshone County **13**:280s

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Standard-Mammoth mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281

Sullivan mine, Kellogg, Coeur d'Alene district, Shoshone County **12**:339–340h, **12**:341m, **12**:347s, **13**:275m, **13**:276p

Sunshine mine, Kellogg, Coeur d'Alene district, Shoshone County **25**:60s

Tamarack mine, Burke area, Coeur d'Alene district, Shoshone County **13**:274m, **13**:281s

Terrible Edith mine (see Pontiac mine)

Tyler mine, Kellogg, Coeur d'Alene district, Shoshone County **12**:341m, **12**:343–346s

Viola mine, Kellogg area, Coeur d'Alene district, Shoshone County **13**:275m

You-Like mine, northwest of Mullan, Hunter district, Shoshone County **1**:75–79s, **13**:274m, **13**:280s

IDAITE

Chile

Chuquicamata **9**:(323)

Namibia

Tsumeb (fibrous) **8**:T26n

IDRIALITE

Slovenia (formerly Yugoslavia)

Idria mine (green resinous nodules, fl. blue-white) **22**:207h

IKAITE

Russia (formerly USSR)

Bielo More, Kola Peninsula (calcite after) **25**:46

IKUNOLITE

Australia

New South Wales

Kingsgate mines (plumbian) **16**:282p

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Bibliography of locality literature **18**:216

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Denton mine, near Cave-in-Rock, Hardin County **14**:55s, **18**:148s, **20**:390s, **24**:48s

Gaskin mine, Pope County **6**:235–236

Gray's quarry, south edge of Hamilton, Hancock County **1**:51ff,s, **19**:200–201s

Hamilton/Warsaw area, Hancock County **2**:53–56s

Minerva (Minerva #1) mine, near Cave-in-Rock, Hardin County **1**:140–141s, **5**:266–269s, **24**:47–48s,h

"ILLITE"

Group of mica-clay species

Brazil

Minas Gerais

Énio pegmatite, near Galiléia **12**:72n

United States

Arizona

Bisbee district **12**:307

Colorado

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ILMENITE

Brazil

Bahia

Ibitiara: golden rutile oriented on **21**:96–97p; id as hematite **21**:501

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“INDICOLITE”

See *Tourmaline Group*

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“IODYRITE”

Iodargyrite

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IRANITE

Iran

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Naegi district, Gifu **18:366s**

Nagahama, Ehime **23:435s**

Nakauri-shi, Shinjo-machi, Aichi-ken **8:517s, 9:113s**

Narushima island, Nagasaki **23:435**

Obira mine, Oita, Kyushu **11:15s, 13:30s**

Oizumi mine, Yamagata **9:368s**

Oppu mine, Aomori **9:368s**

Osarizawa mine, Akite **8:517s, 19:311s**

Oumi-cho, Nishikubiki, Niigata **9:113s**

Rendaizi mine, Idu **13:394s**

Sakabira **12:383–384s**

Seikoshi mine, Toi-machi, Shizuoka-ken **8:517s**

Takaosu mine, Kami Kauo, Awano-machi, Kamit-
suga-gun, Tachigi, Honshu **11:15s**

Tanohata (Tanohate) mine, Iwate **8:391s, 8:517s**

Tomii mine, Tochigi **9:368s**

Toroku mine, Iwato, Nishiwouki-gora, Miyazaki,
Honshu **9:114s, 11:15s**

Tsumo mine, Shimane **10:302s**

Ushio mine, Omyia-cho, Kyoto-ken **8:527s**

Wakabayashi Mineral Collection, The **6:210–211b**

Yamaura, Hyugo, Miyazaki, Honshu **11:15s**

Yokohi mines, Ichinokawa, Shikoku Island, Ehime
(formerly Iyo Province) **19:235**
Yumata hot springs, Honshu **9:368s**

JARLITE

Greenland

Ivigut (massive; minute crystals) **24:G35–36p,h**

JAROSITE

Australia

South Australia
Preamimma mine **12:(107)**
Western Australia
Ashburton Downs (minute pseudo-cubic)
24:213

Canada

Québec
Evans-Lou pegmatite (crust) **3:72n**
Mt. St-Hilaire (coatings) **21:315**
Yukon
Rapid Creek area (massive; poss. after octa-
hedral pyrite) **23:Y38**

Chile

Chuquicamata (fibrous; crystals; some after
alunite/natroalunite crystals) **9:328**

England

Derby
Derbyshire orefield (powdery) **14:23**

Germany

Rheinland-Pfalz
Mendig, Eifel district **8:319d**

Greece

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

Italy

Tuscany
Cetine mine **15:31p**

Mexico

Chihuahua
Undisclosed locality (probably world's best)
23:276n, 23:435n

Namibia

Tsumeb (after tennantite and azurite) **8:T26n**

New Zealand

Tui mine (coatings) **6:30**

United States

Arizona
Bisbee district **12:307**
Defiance and adjoining mines, Cochise
County (flakes) **11:205**
Fat Jack mine, Yavapai County (1 mm tabu-
lar) **22:26**
Grand Central mine, Tombstone district (af-
ter pyrite to 15 mm) **11:253**
Hoatson shaft, Bisbee district (2 mm crys-
tals) **12:307**
Lavender pit, Bisbee district (2 mm crystals)
12:307
New Cornelia mine, Pima County (some
small gemmy euhedral) **14:296**
79 mine (and/or plumbojarosite) **3:253**
Shattuck shaft, Bisbee district (scales) **12:307**
Southwest mine, Bisbee district (1000-ton
masses) **12:307**
Tombstone district, Cochise County (crystals
to 1 cm) **11:255**
Vekol mine, Pinal County (1 mm crystals)
14:91

California

Darwin district, Inyo County **15:(15)**
Monitor-Mogul district, Alpine County (coat-
ings) **22:37n**

Georgia

Graves Mountain: after lazulite **10:48–49p**;
micro crystals, powder **16:450**

Nevada

Majuba Hill mine: **16:(66)**; fine-grained,
minute crystals **24:178**

GENERAL INDEX

- Northumberland mine, Nye County (crusts, micro crystals) **16:40**
 Outlaw mine, Nye County (massive, crystal-line) **22:180n**
 Pennsylvania
 French Creek mine (post-mining coatings) **25:115**
 Texas
 Terlingua district **21:230**
-
- JEANBANDYITE**
- Bolivia**
 Llallagua (newly described; oriented on wick-manite) **13:235–239c,p,q**
-
- JENNITE**
- South Africa**
 Cape Province
 Wessels mine (minute platy) **22:287**
-
- JEPPEITE**
- Australia**
 Western Australia
 Argyle and Ellendale mines **21:562n**
-
- JEREMEJEVITE**
- Namibia**
 Swakopmund: crystals to 7 cm **8:391**; crystals to 3.8 cm **8:59**; prismatic to 22 mm **6:38q**
- Russia (formerly USSR)**
 Dauria, Chitinskaya Oblast **6:38h**
-
- JERVISITE**
- Italy**
 Lombardy
 Baveno area **14:164**
-
- JIMTHOMPSONITE**
- United States**
 Vermont
 Carlton talc quarry, near Chester (announced; crystals to 5 cm) **10:51h,q**

- JOAQUINITE-(Ce)**
- Canada**
 Québec
 Mt. St-Hilaire (2 mm crystals) **21:315**
- Japan**
 Hashidate, Ohmi-machi, Niigata-ken (unnamed joaquinite-like mineral) **8:(517)**
- United States**
 California
 Benitoite Gem mine, San Benito County: crystals to 5.4 cm **8:444p**, **8:448–450h,d,c,p**; unnamed joaquinite-like mineral **8:(517)**
-
- JOESMITHITE**
- Sweden**
 Ramsorten drift, Långban (Flink unknown #101 id as) **1:125h,q,d**
-
- JOHANNSENITE**
- Bulgaria**
 Madan orefield **22:444**
- South Africa**
 Cape Province
 Wessels mine (massive) **22:287n**
- United States**
 Arizona
 Iron Cap mine, Graham County (crystals to 1 cm) **19:84–85c,p,q**
-
- JOHILLERITE**
- Namibia**
 Tsumeb **13:139p**, **13:141**
-
- JOHNINNESITE**
- Namibia**
 Kombat mine **22:422h**
-
- JONESITE**
- United States**
 California
 Benitoite Gem mine, San Benito County: **8:450–451p**, **9:(114)**; newly described **8:453–456h,p,q,d**

- JORDANITE**
- Switzerland**
 Lenggenbach quarry **8:278p**
- United States**
 Colorado
 Brobdignag prospect, San Juan County **7:275n**
 Silverton district, San Juan County **10:358n**
-
- JOSEITE-A and JOSEITE-B**
- Canada**
 British Columbia
 Glacier Gulch South Side Group, near Smithers: **15:(90)**; plates, most “tetradymite” id as **2:204**
 Good Hope group (flakes) **2:207**
- United States**
 Colorado
 Summit County **7:275n**
-
- JOURAVSKITE**
- Morocco**
 Tachgalt, Anti-Atlas Mountains **8:(390)**, **9:(113)**
- South Africa**
 Cape Province
 N’Chwaning II mine: **23:(436)**; sugary masses **22:288**
-
- JULGOLDITE-(Fe⁺²)**
- Sweden**
 Långban, Värmland (newly described; micro bladed) **3:187h,q,d**
- United States**
 California
 Trinity County **9:(113)**
 Michigan
 Clark mine, Keweenaw County: **23:M66**; micro sprays **14:221**, **14:222p**
-
- JUNITOITE**
- United States**
 Arizona
 Christmas mine, Gila County **9:(114)**, **11:261n**

GENERAL INDEX

KAERSUTITE

Canada

- British Columbia
- Ice River complex (masses) **12:224**
- Québec
- Mt. St-Hilaire (phenocrysts to several cm) **21:315**

KAINOSITE-(Y)

Five world localities **1:(98)**

Canada

- Ontario
- Bancroft area **13:(83)**
- Bicroft mine, Bancroft area **13:111n**
- North Burgess Township, Lanark County **13:83**
- Québec
- Evans-Lou pegmatite (micro prismatic) **3:73q, 3:76p**
- Mt. St-Hilaire (prismatic to 5 mm) **21:315c**

France

Mont Blanc massif **23:434n**

Switzerland

- Four localities **1:(98)**
- Gotthard tunnel, Ticino/Uri **8:291**
- Grubhorn, Valais **8:291**
- Val Curnera, Graubünden (crystals to 2 cm) **1:98–100d,p,q**

United States

- Washington
- Washington Pass **23:428**

KALINITE

Chile

Chuquicamata **9:328n**

KALIOPHILITE

Italy

Marino, Colle Cimino **9:(114)**

“KALITHOMSONITE”

See Ashcroftite-(Y)

KAMBALDITE

Australia

- Western Australia
- Kambalda (crusts) **21:487n**
- 132 North deposit, Widgiemooltha district (micro prismatic) **25:287–288p, 25:290**

“KÄMMERERITE”

See Clinochlore

KANSAS

- Bibliography of locality literature **18:216–217**
- Bibliography of mineralogy literature **10:18**
- Eagle mine, Ottawa, Franklin County **18:436–437s**
- Highway 10 roadcut, Johnson County **18:436–437s**
- Westside Eagle Picher mine, Baxter Springs, Cherokee County **23:441h**

KAOLINITE

Australia

- New South Wales
- Broken Hill (“halloysite” id as) **7:31**
- Western Australia
- Ashburton Downs **24:213**

Brazil

- Minas Gerais
- Énio pegmatite, near Galiléia **12:72n**
- Jaguaraçu pegmatite **25:169n**

Canada

- Québec
- Mt. St-Hilaire **21:315**

Italy

- Lombardy
- Baveno area **14:164**

Tuscany

Niccioleta mine **10:286**

Namibia

Tsumeb **8:T26n, 8:T83p**

South Africa

- Transvaal
- Messina district **22:197**

United States

- Arizona
- Bisbee district (large masses) **12:307**
- Czar shaft, Bisbee district **12:307**
- Holbrook mine, Bisbee district **12:307**
- Mammoth mine, Pinal County (unconfirmed) **11:177**
- New Cornelia mine, Pima County **14:296**
- 79 mine **3:255**

Colorado

San Juan Mountains **10:358n**

Georgia

- Booger Bottom (near), Meriwether County (replacing microcline) **22:382n**
- Graves Mountain **16:450**

Nevada

Majuba Hill mine **16:67**

New Mexico

Harding mine **8:123n**

KARELIANITE

Toxicity **11:10**

Gabon

Mounana (minute grains) **6:238–239**

KASOLITE

Gabon

Mounana (minute crystals) **6:244**

Namibia

Tsumeb **13:141**

Zaire

Shinkolobwe mine **9:33**

“KASOMPIITE”

See Glaukosphaerite

KATOPTRITE

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**
- Bestyube gold field **13:395s**
- Counrad (see Kounrad)
- 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**
- Dzambul (Dzambul) (now Kara Oba)
- Hydercahn, Fergana Basin **10:189s**
- Inder **24:389s**
- Inderskoje mine, near Inderskoje, Gurijev Oblast **24:389s**
- Kara-Oba (formerly Dzambul, Dzambul) **23:84s, 23:433s, 24:389s, 25:50s, 25:140**
- Kent **21:492s**
- Kounrad (Counrad) **23:437s, 25:140s**
- Lake Inder **21:492s**
- Locality not specified **18:159s**
- Pstan **24:389s**
- Rudni, Kusteni Oblast **25:61s**
- Rudnui **24:233–234s**
- Sarbai iron mine, Rudnyi **23:433s, 24:389s**
- Sarbay-Sokolov **25:140s**
- Sit Schag, near Uzbekistan border **23:495s**
- Sokolovskaya **25:218s**

“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
- Mt. St-Hilaire (plates to 3 mm) **23:429n**

United States

- North Carolina
- Bald Knob, Alleghany County (micaceous grains) **12:171**
- Locality not specified **8:(390)**

KENTROLITE

South Africa

- Cape Province
- Wessels mine (crystals to 1 mm) **22:288p**

Sweden

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

United States

- New Jersey
- Franklin mine (micro spikes) **22:276p**
- New Mexico
- Hillsboro, Sierra County **16:(149)**

KENTUCKY

- Bibliography of locality literature **18:217**
- Bibliography of mineralogy literature **10:18–19**
- Hall’s Gap, Lincoln County **1:109–110s, 2:17s, 20:237s, 20:457s, 20:459s, 20:463s**
- Mammoth Cave **19:150**
- Muldraugh geode locality (closed) **23:424h**

KENYA

- Athi River area **20:396s**
- Kwale district, south of Voi **10:302s**
- Mt. Elgon **20:396s**
- Taita **20:396s**

KERMESITE

Bolivia

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

Canada

- New Brunswick
- Lake George mine (tufts to 15 mm) **22:266**
- Québec
- Lac Nicolet mine (acicular) **24:223n**

Italy

- Tuscany
- Pereta mine (confused with valentinite) **15:21–22n**

Slovakia (formerly Czechoslovakia)

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

United States

- Maine
- Drew Hill sulfide veins, Aroostook County (red coating; id as schafarzikite) **22:382**
- Zimbabwe (formerly Southern Rhodesia)
- Globe and Phoenix mine, Que Que (sprays of crystals to 5 cm) **4:280**

KERNITE

Toxicity **11:6**

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

GENERAL INDEX

- United States**
California
Boron, Kern County: **3**:165; crystals to 2.5 mm
6:87p, **6**:88–89
- “KERSTENITE”
- Species status uncertain*
- Bolivia**
El Dragón mine, Potosí (prismatic to 1 mm)
21:142–143c,p,d
- “KERTSCHENITE”
- See Vivianite*
- KESTERITE**
- England**
Cornwall
Cugga mine **9**:(113)
- United States**
Arizona
Campbell shaft, Bisbee **24**:432n
- KETTNERITE**
- United States**
Arizona
Campbell shaft, Bisbee **24**:432n
- “KEWEENAWITE”
- Discredited*
- United States**
Michigan
Keweenaw County **23**:M66
- KEYITE**
- Namibia**
Tsumeb: minute crystals **8**:T26n, **8**:T59p; newly described **8**:T87–90h,q,d,p
- KHINITE**
- United States**
Arizona
Old Guard mine, near Tombstone: **11**:254h; announced **10**:51h,q
Tombstone district, Cochise County **23**:(423)
- KIDDCREEKITE**
- United States**
Arizona
Campbell shaft, Bisbee (grains) **24**:432n
- KIDWELLITE**
- Australia**
South Australia
Iron Monarch pit, Iron Knob **12**:106n, **22**:(387)
- United States**
Alabama
Indian Mountain, Cherokee County **9**:389p
Rock Run station **9**:388p
- Arkansas
Coon Creek mine, Polk County **9**:(113)
Mena, Polk County **16**:150–151
Polk County **9**:37p
- KIMZEYITE**
- United States**
Arkansas
Magnet Cove, Hot Spring County (crystals to 5 mm) **24**:67
- KINGSMOUNTITE**
- Vs. montgomeryite **14**:195–197q
- Germany**
Bavaria
Hagendorf-Süd pegmatite (ferrian) **14**:197q
- United States**
North Carolina
Foote mine (announced) **11**:111h,q
- KINOITE**
- United States**
Arizona
Christmas mine, Gila County **11**:261, **11**:262p
Santa Rita Mountains, Pima County (described) **1**:125h,q,d
- Michigan
Kearsage lode, Houghton County: in quartz **9**:314; minute crystals **8**:519–520h,p,q
Laurium, LaSalle mines, Houghton County: in calcite, quartz **14**:223–224, **14**:225p; micro inclusions **23**:M63p, **23**:M66
Northwestern mine, Keweenaw County **23**:M66
- KIPUSHITE**
- United States**
Montana
Black Pine mine, Granite County (micro rosettes) **21**:483–484n
- Nevada
Snowstorm mine, Lander County (micro) **21**:484n
- Zaire**
Kipushi mine, Shaba (3 mm crystals) **21**:501
- KIRSCHSTEINITE**
- South Africa**
Cape Province
Wessels mine (grains) **22**:288, **22**:296q
- KITTATINNYITE**
- United States**
New Jersey
Taylor mine, Franklin **25**:308h
- KLEBELSBERGITE**
- Italy**
Tuscany
Cetine mine **15**:33–34p,h
Pereta mine **15**:22–23p,d,c, **23**:435n
- Romania**
Baia Sprie (formerly Felsöbánya) **8**:(390)
- KLEEMANITE**
- Australia**
South Australia
Iron Knob (announced) **10**:302h,q
- KLEINITE**
- United States**
Nevada
Cordero mine, Humboldt County: locality corrected to McDermitt mine **8**:517; sharp micro crystals **8**:391
McDermitt mine, Humboldt County: **9**:(113); sharp micro crystals **8**:517n
- Texas
Terlingua district (minute prismatic) **21**:230d
- KLOCKMANNITE**
- Bolivia**
El Dragón mine, Potosí (micro grains) **21**:138n
- “KNEBELITE”
- See Fayalite*
- “KNIPOVICHITE”
- Discredited as chromian alumohydrocalcite* **6**:180–183h,q
- KOBEITE**
- Japan**
Ushio mine, Kyoto-ken **8**:(527)
- KOBELLITE**
- Sweden**
Boliden mine, Västerbotten (selenian) **9**:58
- United States**
Colorado
Comstock mine, La Plata County **7**:276n
Lilian mine, Leadville district **16**:(197)
Silver Belle mine, Ouray County **10**:358n
- KOECHLINITE**
- United States**
Nevada
Outlaw mine, Nye County (minute spheres) **22**:180p
- KOETTIGITE**
- See Köttigite*
- KOGARKOITE**
- Canada**
Québec
Mt. St-Hilaire (grains, crystals to 10 mm) **21**:315
- KOLICITE**
- United States**
New Jersey
Franklin: **12**:373; announced **11**:111h,q
Sterling Hill mine: **12**:373–374p, **13**:(37); announced **11**:111h,q
- KOLWEZITE**
- Zaire**
Mashamba West mine (velvety botryoidal) **22**:19p, **22**:20
- KOMBATITE**
- Namibia**
Kombat mine **22**:422h
- KOREA**
- Koendo **8**:394s
Onyang, Gyeong, Sang Buk Do **19**:120s
Scheelite localities **6**:96
Tae Wha mine, Nongam-Ni **8**:394s, **10**:133–136p,m,h
Taewha mine, north of Chungju, Chungchong-pukdo **5**:222, **8**:394–395s
Tong Wha, Kyong Sang Buk Do, Andongkun, Kilanmyn, Chunjidong: **3**:68s, **8**:393–395s; apparently fictitious name **5**:222; name is correct **6**:96
Wolak mine, near Danyang, Chungchongpukdo **5**:222
- KORITNIGITE**
- Namibia**
Tsumeb: **13**:139p; resembles gypsum, schulterite, claudetite **13**:141c,p
- KORNELITE**
- United States**
Arizona
Bisbee district **12**:307
Campbell shaft, Bisbee district (post-mining; pink fibers) **12**:307
- California
Coso Hot Springs, Inyo County **16**:(149)
- KORNERUPERINE**
- Australia**
Northern Territory
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

GENERAL INDEX

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 parasymplectite **7**:186

Mexico

Durango

Ojuela mine: **15**:239–240p; poss. parasymplectite, 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**
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Finland

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

Colorado

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Canada

Québec

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

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United States

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Chile

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United States

Nevada

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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

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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**

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Mixture of brucite and hydromagnesite

United States

Pennsylvania

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LANDESITE

Brazil

Minas Gerais

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United States

Maine

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Sweden

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LANGITE

Canada

British Columbia

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Québec

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

England

Cornwall

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Shropshire

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Germany

Rheinland-Pfalz

Ems district **15:(342)**

Namibia

Tsumeb (crystals) **8:T27n**

United States

Arizona

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

Massachusetts

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

Michigan

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Nevada

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

Washington

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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

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“LAUBMANNITE”

Mixture of dufrenite, kidwellite, and beraunite

Relationship to other phosphates **4:114**

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Alabama

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Minas Gerais

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Germany

Bavaria

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Namibia

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

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Maine

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New Hampshire

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 New Jersey
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- United States**
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- Afghanistan**
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- LEUCITE
- Brazil**
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- Canada**
Québec
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- LEUCOSPHEINITE
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- Victoria
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- Færoe Islands (unspecified localities) **12**:(18)
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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
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See Carbonate-fluorapatite

LIANDRATITE

Madagascar

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

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Australia

- New South Wales
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Western Australia
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United States

- Colorado
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United States

- Colorado
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United States

- Arizona
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“LIMONITE”

Mixture of hydrous iron oxides, primarily goethite

Australia

- South Australia
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- Arizona
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Bolivia

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Canada

- British Columbia
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England

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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

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- Strathclyde
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Spain

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United States

- Arizona
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- State Line chromite district, Cecil County (and Lancaster County, PA) **12**:149–156h,m,g
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Zaire

Shinkolobwe mine: **8**:(390), **9**:34, **20**:282–283p

MATILDITE

Schappachite discredited as; 6 world localities listed **7**:275h

United States

Arizona

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

California

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Nevada

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MATLOCKITE

Australia

Tasmania

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England

Derby

Bage Hill mine, Bolehill: **24**:245–246h; original discovery **23**:381–385h,p; plates to 5 cm **14**:19

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England

Cumbria

Brae Fell mine **22**:113p

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United States

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Germany

Halle

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United States

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New Mexico

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Namibia

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Bou Azzer **17**:(127)

New Zealand

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United States

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Nevada

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Pennsylvania

Lancaster County: prob. id **12**:(146); prob. occurrence **17**:(127)

MCKELVEYITE-(Y)

Canada

Québec

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MCKINSTRIYITE

Canada

Northwest Territories

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MEIONITE

See also Scapolite Group

Australia

South Australia

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Ontario

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Germany

Rheinland-Pfalz

Laacher See area, Eifel district (some id as cancrinite) **8**:321, **8**:324c

Italy

Campania

Vesuvius: **1**:(86), **15**:41n,d; micro **12**:43n

United States

California

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Maine

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Italy

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United States

California

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MELANOTEKITE

Namibia

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Sweden

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MELANTERITE

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Queensland

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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

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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)

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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**

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Arizona

Grand Reef mine, Graham County (1 cm crystal) **11:223p**, **11:225**

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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

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In pegmatite environments **4:110**

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Minas Gerais

Presidente Bueno, Rio Doce valley **2:(12)**

Czech Republic (formerly Czechoslovakia)

Jeclov **4:110**

United States

Colorado

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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**

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Australia

Queensland

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British Columbia

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Norway

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Greece

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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

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NEKOITE

United States

Arizona

Iron Cap mine, Graham County **19:(87)**

California

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

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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”

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Québec

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 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
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 Coaldale, Esmeralda County **6**:79s
 Comstock lode, Virginia City, Storey County **16**:5–14h,g, **16**:55s, **18**:84s
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 Montgomery Pass area, Mineral County **18**:360s
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 Pershing County (locality not specified) **9**:113s, **17**:342s
 Peterson Mountain, Washoe County **19**:332s
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Victoria

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United States

California

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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

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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,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

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

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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

Juanita mine, Magdalena district, Kelly, Socorro County **5**:235, **20**:13–14h, **20**:17m, **20**:18s, **20**:20s

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- La Madera Mountain, near La Madera, Rio Arriba County **22**:384s
- Lemitar Mountains, Socorro County **20**:61
- Little Mildred mine, Sylvanite district, Hidalgo County **20**:11s
- Lone Pine mine, Catron County **10**:301s, **20**:10s
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- Lynchberg Tunnel, Magdalena district, Kelly, Socorro County **20**:17m, **20**:61
- Magdalena district, Kelly, Socorro County **20**:13–24p,m,h,g
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- South Sisters Peak, Tres Hermanas district, Luna County **22**:384s
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- Squaw Creek tin mine, Catron County **20**:404s, **22**:384s
- Stephenson-Bennett mine, Organ district, Dona Ana County **3**:150h,s, **4**:31–34h,g, **18**:361s, **20**:25–30m,p,h,g, **20**:391s
- Stonewall mine, Magdalena district (Kelly), Socorro County **20**:17m, **20**:20s
- 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
- Sunshine #4 mine, Hansonburg district, Bingham, Socorro County **20**:31–46m,p,h,g
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NEW SPECIES AND TYPE SPECIMENS

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 Royal Oak mine, Coromandel **1:113s**
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 Una mine, Thames **1:101ff,s**

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 Moeraki, Otavi **14:50s**
 Nelson (near) **14:50s**, **15:109s**
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 Para Para, Golden Bay **19:337s**
 Stew Point, Rangitata Gorge, South Canterbury **14:50s**

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

Northwest Territories
 Port Radium **20:(207)**
 Ontario
 Silver Islet mine **17:(59)**
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Germany

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

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Norway

Kongsberg **17:(35)**

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United States

Arizona
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 Michigan
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“NICKEL-IRON”

Kamacite, *taenite* and/or *tetrataenite*

Moon

Meteorite fragments **1:21**

NICKEL-SKUTTERUDITE

Locality not specified **20:12h**

Canada

British Columbia
 Rocher Déboulé mine, near Hazelton (“smallite-chloanthite”) **15:(91)**
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Germany

Obersachsen
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Norway

Kongsberg **17:(35)**

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“NISAITE”

See *Phurcalite*

NISSONITE

Australia

Queensland
 Mt. Oxide (2 mm crystals) **24:49n**

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

California

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NOLANITE

Gabon

Mounana **6:239n**

United States

Arizona

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

NONTRONITE

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Amity area, Orange County **9:87–88**

NORDITE-(Ce), -(La)

Canada

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NORDSTRANDITE

Canada

Ontario

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Québec

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Poudrette quarry (formerly UK#59) **22:386n**

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Almklovdal, Sunmøre 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**
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Dauren, Frigstad, Iveland, Aust Agder **22:52s**
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Dypingal, Snarum **22:52s**
Evje area, Aust Agder **22:52**
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Grisebingen (see Matskorhae)
Gudbrandsdalen **20:238s, 20:483s**
Høydalen, Telemark **9:40s**
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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**
Kjørholt, Porsgrunn, Telemark **23:435s, 24:393**
Kongsberg, Buskerud **11:15s, 11:30h, 13:359s, 17:19–36h,g,m,p, 18:408s, 19:38s, 19:41s, 19:340b, 20:238s, 22:46, 24:393h**
Kongsli, Vinstra, Oppland **24:393s**
Kragerø **20:397s**
Kristiansund (unspecified island near, and tunnel work near), Møre og Romsdal **23:436n**
Langendalen, Larvik, Vestfold **8:517s**
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**
Matskorhae, Ullensvang Statsallmenning, Hordaland Fylke **8:266–271h,p,m,g, 17:392s, 20:299–300s**
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Mineral-Fundstellen: Skandinavien **7:315b**
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Namdalen, Nord-Trøndelag **23:436s**
Nordli, Nord-Trøndelag **23:436s**
Nybø, Vågsøy Island, Sognog Fjordane **22:391s**
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Omdal, Froland **22:47s**
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Skutterud, Modum **8:390s**
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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**
STEIN, Norwegian Association of Geological Sciences periodical **22:52**
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Tingelstadterjerm, 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

OKANOGANITE-(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

Bibliography of locality literature **18**:222–223

Bibliography of mineralogy literature **10**:24

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-olivenite series **10**:113; crystals to 2.5 cm, some ferroan, zincian **8**:T28–29, **8**:T50, **8**:T57p; olivenite-“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

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 - Double Rainbow mine, Lawrence County (crystals to 5 mm) **1:124n**

POLYDYMITE

- Vs. violarite **2:53–56q**

Canada

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

United States

- 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**

Zaire

- Shinkolobwe mine **20:276**

POLYLITHIONITE

Canada

- 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**

Malawi

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

United States

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

PORTLANDITE

Germany

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

South Africa

- Cape Province
 - Black Rock mine **22:289n**
 - N’Chwaning mines: **22:289n**; crystals to 3 cm **23:436n**
 - Wessels mine (platy crystals to 5.7 cm) **22:289**

PORTUGAL

- 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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Canada

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

England

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

Germany

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

Namibia

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

New Zealand

- Maharahara mine **17:202–203**

United States

- Colorado
 - Murry mine, Clear Creek County (micro crystals) **11:38**
 - Yellow Pine mine, Boulder County (micro crystals) **11:38**
- Michigan
 - Clark mine, Keweenaw County **23:M67n**
- Nevada
 - Majuba Hill mine (minute crystals) **24:175**
- Pennsylvania
 - Ecton mine, Montgomery County **18:(132)**

POSTAGE STAMPS DEPICTING MINERALS AND MINING

- Algeria **19:127**
- Australia **20:301, 20:403, 21:499, 22:223, 22:478, 24:245, 24:319, 25:385**
- Austria **19:127, 20:403, 24:319, 25:385**
- Botswana **22:71**
- Canada **21:499, 24:245, 25:301**
- China (Peoples Republic) **18:375**
- Collectible stamps as refund for shipping charges **25:386**
- Czechoslovakia **19:8, 20:403, 24:319, 25:385**
- France **18:167, 20:301, 22:223, 23:282, 24:319, 24:400**
- Germany **17:13, 19:127, 22:223, 22:311, 25:301**

Ghana **24:245**
 Kenya **25:301**
 Malagasy Republic (Madagascar) **23:282**
 Mexico **18:333**
 Monaco **22:223, 23:446**
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 Swaziland **21:499**
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Representative or significant occurrences; see also Slag Minerals

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 Aragonite "cave pearls" **8:35**
 Bisbee, AZ, district: **12:288**; lime **12:307**; sulfur **12:314**
 Cetine mine, Tuscany, Italy (numerous species present) **15:27–36**
 Chalcantite fibers, Majuba Hill, NV **16:63, 16:64p**
 Complex encrustation (10 species) on timbers, Silver Plume, CO **7:275**
 Copper precipitated from mine water along iron ore car rails, Ems, Germany **15:335p**
 Corrosion, weathering, and organic products (examples) **6:187–188**
 Crocoite, Adelaide mine, Australia **3:112**
 Crystals possibly of organic and/or industrial origin **13:233**
 Epsomite, "carpet" of needles to 5 cm, White Caps mine, NV **16:86**
 Gunningite, post-collecting coating **7:275**
 Gypsum, crystals to 20 cm in mine sumps, Naica, Chihuahua, Mexico **14:385**
 Gypsum, var. selenite, Hagans, WV **19:117**
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 Halite, thenardite, mirabilite, Camp Verde, AZ **14:88–90p**
 Iron sulfates, mine waters with pH < -1, Iron Mountain mine, CA **22:382–383**
 Keweenaw Peninsula, MI, general discussion **23:M51**
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 Mt. Isa mine, Australia (numerous species) **19:479–484p**
 Pyromorphite on mine timbers, Caledonia mine, ID **13:282**
 Sal ammoniac, from mine fire, Kadamdzhaj, Tajikistan **21:492**

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 Stibnite, arsenolite formed in mine fire, White Caps mine, NV **16:84–86p**
 Zincite, Olkusz mine, Poland ("from the Great Mine Fire") **22:391, 22:478**

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 Chuquicamata **9:328n**
Italy
 Tuscany
 Cetine mine **15:32**

POUDRETTEITE

Canada
 Québec
 Poudrette quarry: **18:363, 18:364**; rough prismatic to 5 mm **21:330**

POUGHITE

Mexico
 Sonora
 Moctezuma mine **1:42**

POWELLITE

Canada
 Québec
 Gatineau Park (Chaput-Payne prospect), Gatineau County (powdery) **11:80**

Chile
 Antofagasta (4 mm crystals) **22:388n**
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 Tia Maria (near) (green cupriferos; some after molybdenite) **24:225p, 24:227**

India
 Maharashtra (locality not specified) (36 mm gemmy crystal) **7:187p**
 Nasik (near): **17:389–390n**; 2.5 cm green doubly terminated **24:394n**
 Pandulena Hill quarries, near Nasik: **13:310q,c,d, 13:311–313p,c**; euhedral to 5 cm **13:303–309p,h**

Namibia
 Tsumeb (micro crystals) **8:T29n**

United States
 Arizona
 Bisbee Queen shaft, Bisbee district **12:(310)**
 California
 Kalkar quarry, Santa Cruz County (fl. yellow) **17:323–324p**
 Maine
 Sanford deposit, York County (grains, crude crystals to 1 cm; after molybdenite) **24:362–363p**
 Michigan
 Calumet & Hecla conglomerate (various mines) (blackish crystals, micro to 10 cm) **23:M63p, 23:M67d**
 Minesota mine, Ontonagon County (yellow euhedral micro) **23:M67–68**
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 Johnston, Providence County (scheelite partly altered to) **1:55**

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Early description (1783) **10:55–56h**

Australia
 New South Wales
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Austria
 "Prehnitinsel," Salzburg **17:(107)**
 Weinsberger Graben, Carinthia **17:(110)**

Canada

Québec
 Drummondville area **19:(334)**
 Jeffrey mine: **15:114p**; 14 mm elongated **12:382p**; prismatic, spindle-shaped **10:74–75c, 10:76p,d**; sharp single crystals to 38 mm **4:232–233p**; spindle-shaped crystals to 9 mm **9:248p, 9:249**
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England

Cornwall
 Botallack district (crystalline crusts) **24:281**

France

Bourg d'Oisans, Isère (rounded crystals to 1 cm) **25:50n**
 La Combe de la Selle, Isère (spheres, cox-combs) **24:223**

Germany

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

Greenland

Sødalén, Miki Fjord **24:G52–53p**

India

Poona district (saddle-shaped) **12:381p**

Italy

Arrigo (balls, plates) **12:382p**
 Lombardy
 Baveno area (1 mm crystals) **14:164**
 Valle d'Aosta
 Val di Viù (groups to 2 cm) **23:499n**

Namibia

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Norway

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 Valldal, Møre og Romsdal **24:393s**

Portugal

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Russia (formerly USSR)

Chegujva (Czegujewa), near Tetyukhe (Tetyukhe) **18:(432)**

South Africa

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 Italian Mountain area, Gunnison County (tan globular) **15:82p–84**

Connecticut
 Cheshire, New Haven County (balls) **12:381p**

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 Rockville Crushed Stone Co. quarry, Montgomery County: **17:(127)**; individual crystals **19:332n**

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- Utah
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See also Manganpyrosmalite

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- Northwest Territories
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See also names of individual species

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- Campania
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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

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

Divino das Laranheiras **19**:335n

Énio pegmatite, near Galiléia (core of peg-
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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 (“cockscorb” 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
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Northwest Territories

Nanisivik mine: **21**:533p; smoky, overgrow-
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Nova Scotia

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Ontario

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Québec

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- China**
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 Bavaria
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- Italy**
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Namibia
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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

Margnac (newly described; minute crystals) **5**:40–41h,d,c,q

RAMMELSBERGITE

Canada

Northwest Territories

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

Québec

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

Germany

Halle

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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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“RAMSAYITE”

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RAMSBECKITE

United States

Pennsylvania

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RAMSDELLITE

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Chihuahua

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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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Cole shaft, Bisbee district (acicular to 15 mm) **12**:310

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

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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

Monument #2 mine, Apache County **24**:(46)

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

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Tuscany

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Macedonia (formerly Yugoslavia)

Allchar (masses to 1 m; crystals to 15 mm) **24**:443

Namibia

Tsumeb **8**:T30n

Peru

Sacramento mine, Julcani district **5**:217n

Romania

Cavnic **15**:167p

Switzerland

Lengenbach quarry: **8**:(277), **18**:(368); 7 cm crystal found in 1945 **8**:273

United States

California

Boron, Kern County (acicular in colemanite) **24**:311n, **24**:312p

Morning Star mine, Alpine County **22**:37n

Nevada

Carlin gold mine, Eureka County **20**:470–471c,p

Getchell mine, Humboldt County **16**:18p, **16**:21p, **16**:22, **19**:(255)

White Caps mine, Nye County (massive, small crystals) **16**:85

New Jersey

Lower New Street quarry, Paterson (in calcite) **9**:173

Sterling Hill mine (micro crystals) **10**:161

Washington

Green River Gorge, King County (crystals to 2 cm) **3**:65

King County (16mm euhedral) **10**:189–190

REBULITE

Macedonia (formerly Yugoslavia)

Allchar **24**:236n, **24**:443–444d,c,p, **24**:446q

RECTORITE

Ordered mixture of smectite and mica

Brazil

Bahia

Boquirá mine, near Oliveira do Brejinho (bladed to 5 cm) **6**:286n

United States

Arkansas

Jeffrey quarry, Pulaski County **9**:78–79p

Stand On Your Head #1 claim, Saline County **17**:151p

REDDINGITE

In pegmatite environments **4**:122

Brazil

Minas Gerais

Linópolis (phosphoferrite-reddingite) **20**:394

United States

Maine

Bennett quarry (veinlets; crystals to 1 cm) **25**:182–183

Havey quarry, Androscoggin County **16**:(375)

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REEDMERGNERITE

Tajikistan (formerly USSR)

Dara-Pierz **21:492n**

United States

New Mexico

Wind Mountain, Otero County **20:60, 20:62p**

Utah

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REEVESITE

Australia

Western Australia

132 North deposit, Widgiemooltha district (powdery; minute crystals) **25:290**

Bolivia

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United States

California

Clear Creek mine, San Benito County **9:(113)**

REINERITE

Namibia

Tsumeb: **23:435n**; crystals to 5 cm **8:T30**; gemmy crystals to 2 cm **24:235n**; 3 mm blobs **23:277, 23:278p**

"REINITE"

See Ferberite

REMONDITE-(Ce)

Canada

Québec

Mt. St-Hilaire (some "burbankite" id as; crystals to 5 cm) **23:429**

"RENARDITE"

Prob. = dewindite

Zaire

Shinkolobwe mine **20:280**

Swambo, Shaba **20:280**

RENIERITE

Namibia

Tsumeb (grains; micro crystals) **8:T30**

United States

Colorado

Humbolt mine, Boulder County **11:36**

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Australia

Western Australia

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Canada

Québec

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Sweden

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United States

New Jersey

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REVDITE

Canada

Québec

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Poudrette quarry **20:393**

RHABDOPHANE-(Ce), -(La), -(Nd)

Canada

Québec

Mt. St-Hilaire: **13:(242)**; rhabdophane-(Ce); crystals to 1.5 cm **21:331p**

United States

Maine

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Nevada

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New South Wales

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Brazil

Minas Gerais

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Bulgaria

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Canada

British Columbia

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Ontario

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Québec

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Namibia

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Peru

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Romania

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Slovenia (formerly Yugoslavia)

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South Africa

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California

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 Pennsylvania
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RHODONITE

Australia
 New South Wales
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Brazil
 Minas Gerais
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Bulgaria
 Madan orefield (mostly granular) **22:444**
Canada
 British Columbia
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South Africa
 Cape Province
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Sweden
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United States
 Colorado
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 New Jersey
 Franklin: **19:273**; marsturite epitaxial on **17:123–125p,c,q**
 North Carolina
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Zambia
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RHODOSTANNITE

United States
 Arizona
 Campbell shaft, Bisbee (micro crystals) **24:433**
 Nevada
 Dean mine, Lander County **20:(390)**

RHOMBOCLASE

Australia
 Queensland
 Mt. Isa mine **19:483**
United States
 Arizona
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 California
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RHÖNITE

Germany
 Rheinland-Pfalz
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RIBBEITE

Japan
 Nagahama, Ehime **23:(435)**
Namibia
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Zaire
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South Africa
 Cape Province
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RICKARDITE

Canada
 British Columbia
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United States
 Arizona
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 Colorado
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 New Mexico
 Don Ana County **9:(113)**

RIEBECKITE

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 Québec
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Greenland
 Narssárssuk: "crocidolite," fibrous to 5 cm **5:121**; crystalline **5:123**
Malawi
 Mt. Malosa region (asbestiform) **25:35**
South Africa
 Cape Province
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United States
 California
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 Colorado
 Saint Peter's Dome area, El Paso County: **5:187n**; 8 cm crystal **16:228–229p**
 Pennsylvania
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 Washington
 Washington Pass (blue "crocidolite") **23:428n**

RINKITE

Greenland
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RINNEITE

United States
 California
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"RIPIDOLITE"

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- Ontario
 - Taylor farm, near Madoc **13:(80)**

ROCKBRIDGEITE

- In pegmatite environments (rockbridgeite-fron-delite) **4:113–114**, **4:118**

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United States

- Alabama
 - Indian Mountain, Cherokee County: **20:360p**; crusts, spheres; minute prismatic **5:242–244p**; micro prismatic **9:389p**
 - Jacksonville (near), Calhoun County **9:390p**
 - Rock Run Station, Cherokee County **20:360–361p**
 - Williams pegmatites, Coosa County (compact bladed to 3 cm) **6:69–72p**

Arkansas

- Mena, Polk County **16:150**, **16:151p**

Georgia

- Indian Mountain, Polk County: **20:360–361p**; see also Rockbridgeite—United States—Alabama—Indian Mountain

New Hampshire

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- Palermo mine **5:278**

New Jersey

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Chile

- Wendy pit, near El Indio **23:433n**, **24:245h**

United States

- Arizona
 - Tombstone district, Cochise County: **9:(113)**, **9:(114)**; cleavages to 2.5 cm **11:253–254q**

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United States

- New Jersey
 - Franklin: **19:(274)**, **21:26h**; massive **22:277**
 - Parker Shaft, Franklin **19:275n**

ROEDDERITE

Germany

- Rheinland-Pfalz
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ROEMERITE

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“ROEPERITE”

See Tephroite

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Brazil

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- Baia Mare (formerly Nagybánya) district, Maramureş district **13:371–374s**, **17:375–376s**

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- Bajuz (Baiutz) **15:117s**, **22:53s**

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- Carpathian Mountains, southern (pegmatites) **19:340b**

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ROMEITE

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South Australia

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Italy

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- Touissit (with malachite on pink dolomite) **17:341n**

Namibia

- Tsumeb (velvety; also after azurite; some zincian; some highly cuprian “parauri-chalcite”) **8:T30**, **8:T57p**

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- Zambia**
Broken Hill mine (massive) **11:343p**
- ROSCHERITE**
- Four world localities **4:121, 4:126**
In pegmatite environments **4:127**
- Brazil**
Minas Gerais
Córrego Frio mine, near Linópolis (minute globules) **14:233**
Énio pegmatite, near Galiléia (crusts) **12:71**
Lavra da Ilha, near Taquaral: **19:(120)**; micro crystals **4:208–210p,q**; pale 2 cm crystals **21:416q**
Taquaral **2:181n, 3:14–15p**
- England**
Cornwall
Clitters mine, near Gunnislake (colloform to 3 mm) **22:390n**
- United States**
Maine
Black Mountain mine **16:378n, 18:(360)**
Newry area (botryoidal; pseudo-hexagonal, pseudo-orthorhombic) **6:199p, 6:200**
South Dakota
Tip Top mine **17:240q, 17:246c,d, 17:248p, 17:250**
- ROSCOELITE**
- Canada**
British Columbia
Engineer mine, near Atlin **24:385n**
- Gabon**
Mounana **6:239n**
- United States**
Arizona
Campbell shaft, Bisbee **24:433n**
Colorado
Good Hope mine, Gunnison County (uncertain id) **14:246**
- ROSELITE and ROSELITE-BETA**
- Morocco**
Bou Azzer: crystals to 13 mm **9:72p**; roselite-beta micro crystals **9:72**
- Namibia**
Tsumeb (roselite-beta) **13:139**
- Spain**
Huercal Overa, Almeira **25:(222)**
- ROSEMARYITE**
- United States**
South Dakota
Rock Ridge mine, Custer County **17:299**
- ROSENBUSCHITE**
- Canada**
Québec
Mt. St-Hilaire: **18:364n**; acicular to 3 mm **21:333**
- United States**
New Mexico
Wind Mountain, Otero County **20:399**
- ROSENHAHNITE**
- United States**
California
Cloverdale (north of), Mendocino County **6:300–301h,q**
North Carolina
Durham quarry, Wake County (massive) **6:300–301q**
- ROSICKYITE**
- United States**
California
Point Rincon, Ventura County **8:433n**
- ROUBAULTITE**
- Zaire**
Kamoto (KOV extension), Shaba: **20:284**; 3 mm crystals **21:501**
Kolwezi, Shaba **20:398**
Shinkolobwe: **20:(284), 20:398**; 3 mm green rosettes; newly described **2:235**
- ROUTHIERITE**
- Canada**
Ontario
Hemlo gold deposit **17:(340)**
- ROUVILLEITE**
- Canada**
Québec
Poudrette quarry (formerly UK #62) **22:386n**
- ROWLANDITE-(Y)**
- United States**
Texas
Clear Creek pegmatite, Burnet County (veinlets) **8:90n**
- ROZENITE**
- Austria**
Bleiberg district **17:367n**
- Canada**
British Columbia
Spatsum claim, near Cache Creek **15:92n**
- Greenland**
Navarana Fjord (massive) **24:G49**
- Italy**
Tuscany
Cetine mine **15:32**
- Macedonia (formerly Yugoslavia)**
Allchar (crusts, ram's horns, stalactites) **24:444**
- United States**
Arizona
Campbell shaft, Bisbee district (post-mining crusts) **12:311**
California
Kalkar quarry, Santa Cruz County **17:323n**
- "ROZHKOVITE"**
- Species status uncertain **13:392h,q**
- Russia (formerly USSR)**
Talnakh deposit **13:(392)**
- "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**
Shinkolobwe mine **9:33**
- RUSSELLITE**
- Canada**
Northwest Territories
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**
Adolfskoi River, Ural Mountains **9:367s**
Afrikanda massif, Kola Peninsula **23:280s**
Alabaschka, Ural Mountains **18:425–426s**
Alabaska, Ural Mountains **24:389s**
Alakhjun, Yakutsk **22:393s**
Aldan, Yakutsk **22:393s**
Apatity region, Kola Peninsula **24:486–488**
Asbest, Ekaterinburg, Central Urals **24:389s**
Beresovsk, Ural Mountains **18:245s, 18:432s**
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**
Bissersk, Ural Mountains **21:501s**
Chabarovskij Kraj (see Khabarovskij Kraj)
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**
Czemyszewsk (see Chemyshevsk)
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**
Dodo mine, 75 km from Saranpaul, Polar Urals, Tyumen Oblast **20:74s, 25:61s**
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
Irkutsk area (collecting trip) **24**:483–484
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, Primorskiy 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
Slyudyansk 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**

GENERAL INDEX

SABINAITE

Canada

Québec

Mt. St-Hilaire (tabular, micaceous to 6 mm)
21:333–334p,d,c

SABUGALITE

Brazil

Minas Gerais

Córrego Frio mine, near Linópolis (spots in scorzalite) **14:233**

Italy

Sardinia

Arcu su Linnarbu, near Capoterra **18:183**

Spain

Pedro Alvaro, Salamanca region **9:(113)**

SACROFANITE

Italy

Lazio

Sacrofano quarry (1 cm crystals) **23:434n**

SAFFLORITE

Canada

Northwest Territories

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

Germany

Halle

Mansfeld Kupferschiefer **17:(10)**

Obersachsen

Schneeberg **17:(13)**

Odenwald

Mackenheim **8:305**

Rheinland-Pfalz

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

Mexico

Chihuahua

Batopilas district **17:(79)**

Morocco

Ait Ahmane **18:(161)**

Norway

Kongsberg **17:(35)**

SAINFELDITE

France

Gabe Gottes mine, Ste. Marie-aux-Mines **8:(391), 19:(256)**

SAKHAITE

Namibia

Kombat mine (sakhaite-like mineral) **22:422h**

SAL AMMONIAC

Czech Republic (formerly Czechoslovakia)

Kladno **20:(299)**

Tajikistan (formerly USSR)

Kadamdzhaj (arborescent to 5 cm; from mine fire) **21:492**

Pozar mine (uncertain locality) (arborescent)
22:221

SALEEITE

Australia

Northern Territory

Jabiru, South Alligator River **19:462p**
Ranger #1 mine, Ranger district (2.5 cm crystal) **18:151–152p**

Brazil

Minas Gerais

Córrego do Urucum pegmatite **17:312**

Énio pegmatite, near Galiléia **12:71**

Italy

Sardinia

Arcu su Linnarbu, near Capoterra **18:183–184c**

Portugal

Cunha Baixa mine, Beira Alta province (green, yellow) **15:294–297p,d,c,q**

Zaire

Shinkolobwe mine **8:(390), 9:33, 20:284**

SALESITE

Chile

Chuquicamata **9:325h,d,c, 9:326p**

SAMARSKITE

Metamict **4:218**

United States

Colorado

Pikes Peak region **16:228n**

Texas

Clear Creek pegmatite, Burnet County (small masses) **8:90**

SAMPLEITE

Chile

Chuquicamata **8:(390), 8:(517), 9:330d,c**

SAMSONITE

Germany

Niedersachsen

St. Andreasberg **17:(9)**

SANBORNITE

Canada

Yukon

Gunn claim, near MacMillan Pass **17:340n**

SANIDINE

Bulgaria

Kyustendil (twins) **22:459n**

Canada

British Columbia

Beaverdell (near) (euhedral to 5 cm, some Carlsbad twins) **23:428n**

Québec

Mt. St-Hilaire (minute blocky crystals) **21:333n**

Germany

Rheinland-Pfalz

Laacher See area, Eifel district: **10:93p; anhedral to 10 cm; micro euhedral 8:321–322d,c**

United States

Arizona

Bisbee district **12:(311)**

Colorado

Harris Park, Park County **10:376**

Italian Mountain area, Gunnison County
15:87n

Pikes Peak region **16:228n**

New Mexico

Oak Spring, Socorro County **20:21**

Utah

Thomas Range and vicinity **10:271, 16:143n**

Wisconsin

Rib Mountain, Marathon County (crust) **12:96**

SANTAFEITE

United States

New Mexico

McKinley County **20:10**

SAPONITE

Australia

New South Wales

Garrawilla area **19:396**

Canada

Québec

Mt. St-Hilaire (10 mm micaceous) **23:429n**

Greece

Kamaréza mine, Laurium **25:280**

South Africa

Transvaal

Palabora mine (tiny blobs) **22:260**

United States

Arizona

Horseshoe Dam area, Maricopa County
14:116p–117

Michigan

Isle Royale lode, Houghton County (various mines) (after clinocllore) **23:M68**

Keweenaw Peninsula (several localities listed) (massive) **14:224**

Laurium mine, Houghton County: after clinocllore; also primary acicular **23:M68**; with kionoite **14:224**

Mass mine, Ontonagon County (acicular)
14:224

“SAPPHIRE”

See Corundum

SAPPHIRINE

Australia

Northern Territory

Harts Range, northeast of Alice Springs
15:100–101c,p,q

Canada

Northwest Territories

Mt. Walker, Somerset Island (tabular crystals to 3 cm) **22:386n**

Resolute (south of), Somerset Island **18:362n**

Greenland

Fiskenæsset (Qeqertarsuaatsiaat) region **24:G12–13p,h**

Madagascar

Androy: rounded, to 15 mm **24:50n**; to 4 cm
24:230

SARABAUITE

Malaysia

Sarabau mine, Sarawak: **9:(113)**; announced
9:116h

SARCOPSIDE

In pegmatite environments **4:109**

Numerous world occurrences **4:117**

Brazil

Minas Gerais

Énio pegmatite, near Galiléia (blades in triphylite) **12:69, 12:70p**

United States

South Dakota

Bull Moose mine, Custer County **4:109**

SARKINITE

Sweden

Harstigen mine, Värmland **22:(49)**

United States

New Jersey

Franklin **19:(274)**

Sterling Hill mine **13:35–38p**

SARTORITE

Switzerland

Valais

Lengenbach quarry **8:278p, 18:(368)**

United States

Colorado

Zuni mine, San Juan County **7:275n, 10:359n**

SASAITE

Australia

Victoria

Skipton Cave, near Ballarat **19:361h**

Canada

Yukon

Rapid Creek area (silky botryoidal) **23:Y38–39q**

SASKATCHEWAN

Lanigan **20:393s, 22:386s**

P.C.S. Rocanville mine, Rocanville **24:223s, 24:385s**

GENERAL INDEX

SASSOLITE

United States

California
Geysers, The, Sonoma County (minute flakes)
24:351

SATTERLYITE

Canada

Yukon
Rapid Creek and Big Fish River areas (columnar aggregates) **23:Y36**

SAUCONITE

United States

Arizona
Defiance and/or Silver Bill mines, Cochise County (massive) **14:131–132q**
79 mine **3:255**

SAUDI ARABIA

Nugrah **8:391s, 9:113s**

SAYRITE

Zaire

Shinkolobwe mine **20:284d**

SAZHINITE-(Ce)

Canada

Québec
Poudrette quarry (tabular to 1.7 cm) **21:334p**

“SAZYKINAITE”

Species status uncertain

Canada

Québec
Mt. St-Hilaire (sazykinaite-(Y), formerly UK#88) **24:388n**

SCAPOLITE GROUP

See also names of individual species

Brazil

Minas Gerais
Locality not specified (doubly terminated to 5 cm) **10:179**

Canada

Ontario
Baptiste Lake (near) **21:485n**
Egan Chute, York River **13:203**
Griffith (east of) (orthoclase after) **9:93p**
Griffith (near) (plagioclase after) **13:77–78p**
Highland Grove, Haliburton County **13:79p**
Numerous localities (10 cm white crystals) **13:78**

Turner’s Island, Lake Clear, Renfrew County (meionite, crystals to 40 cm) **13:210–211c,p**

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

Québec

Bear Lake mine, Litchfield Twp **9:93p, 9:94p**
Yates mine, Pontiac County (grey crystals to 4 cm) **12:362–363p**

Germany

Rheinland-Pfalz
Laacher See area, Eifel district (poss. meionite) **8:324**

Greenland

Godthåbsfjord area (grey-white crystals to 3 cm) **24:G14**

Italy

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

Madagascar

Androy **24:50n**

Mars

Various localities (abundant micro grains) **21:501**

Norway

Sønderled (pink prismatic) **22:48n**

Russia (formerly USSR)

Lake Baikal district **1:61h**
Pereval mine, Lake Baikal district (lavender) **1:64**

Sweden

Leveäniemi iron mine, Norrbotten **20:(346)**

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“SCHAPBACHITE”

High-temperature polymorph of matildite

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- Morocco**
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- Arkansas
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- California
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- Colorado
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Queensland

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Ice River complex (veins; blue, white, pink, green) **12**:225q

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Davis quarry ("hackmanite," fl. apricot) **13**:86n

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Namibia

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Locality not specified **20**:398s

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Avontuur basin, just north of the Kalahari manganese field **22**:284s, **22**:288s

Black Rock mine, Kalahari manganese field **9**:137ff, **20**:300s, **22**:280–281m,g

Cradock **23**:213g

Devon mine, Kalahari manganese field **9**:137ff, **22**:280–281m,g,h

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N'Chwaning #1 mine, Kalahari manganese field: **22**:280m,h; flooded, closed **23**:85h

N'Chwaning #2 mine, near Kuruman, Kalahari manganese field **18**:431s, **22**:280–281m,g, **22**:393s

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Smartt mine, Kalahari manganese field **9**:137ff, **22**:280–281m,h

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Mooinooi mine, Brits **20**:398s

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Spence mine, Messina district **22**:189m, **22**:190–191m,g

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SOUTH DAKOTA

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Custer Mountain lode, Custer County **4**:109g, **4**:122s

Dan Patch mine, near Keystone, Pennington County **4**:108–109g, **4**:123s

Double Rainbow mine, Galena, Lawrence County **1**:119ff,h,s

Dyke lode, near Keystone, Pennington County **17**:297m, **17**:298s

Elk Creek, Meade County **18**:125–130p,m,g,h, **19**:116s, **22**:61s

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SPIONKOPITE

United States
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SPIROFFITE

Mexico
Sonora
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SPODUMENE

“Kunzite,” “type specimens” **19:210h**

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Utö, Stockholm **19:295h**

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Beebe Hole mine, San Diego County (yellow, blue, purple) **8:515**
Pala Chief mine, San Diego County: “kunzite” **18:369h**; pink, “kunzite” to 28 cm **8:510–511p**
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Norway
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United States
New Mexico
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Formerly Ceylon
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STANNOIDITE

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United States
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“STARINGITE”
Mixture

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- North Carolina
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“STEATITE”

Usually refers to massive talc

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- Bavaria
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“STELZNERITE”

See Antlerite

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Shinkolobwe mine **20**:282p
-
- URANOPIILITE**
Zaire
Shinkolobwe mine **20**:287
-
- URANOSPINITE**
France
Rabéjac quarry, Hérault **23**:(433)
“URANOTHORITE”
See Thorite
-
- URANOPYROCHLORE**
Three world localities **10**:158h
Brazil
São Paulo
Jacupiranga mine (crystals to 2 cm) **15**:266
Canada
Ontario
MacDonald mine, Hastings County: “ells-worthite” **13**:199–200p; massive **10**:158, **13**:85
-
- URUGUAY**
Locality not specified **20**:236s
-
- USHKOVITE**
Locality not specified **20**:363–364q
Germany
Bavaria
Hagendorf-Süd, near Waidhaus: **18**:376q; laueite id as **16**:463–464q; vs. laueite **18**:250–252q
Namibia
Sandamab (laueite id as) **16**:463–464q
United States
New Hampshire
Palermo mine: laueite id as **16**:463–464q; vs. laueite **18**:250–252q
-
- USSINGITE**
Canada
Québec
Mt. St-Hilaire (euhedral to 5 mm) **21**:343–344p,d
Poudrette quarry **20**:393
Greenland
Taseq slope, Ilímaussaq complex **9**:113s
-
- UTAH**
Apex mine, near St. George, Washington County **4**:5s, **18**:361s
Autunite #8 claim, east side of Topaz Mountain, Thomas Range, Juab County **10**:271
Barrick mine, near Mercur, Tooele County **22**:384s
Bibliography of locality literature **18**:225–226
Bibliography of mineralogy literature **10**:26–27
Bingham open pit, Salt Lake County **21**:484s
Bluebird mine, San Rafael Swell, Emery County **18**:361s
Blue Grotto prospect, Lisbon Valley, near La Sal, San Juan County **12**:387h
Blue Jay claim, San Juan County **18**:361s
Buckhorn Canyon, Dugway Mountains, Tooele County **24**:48
Bullion Canyon, Dugway Mountains, Tooele County **22**:384s
Bwana mine, Beaver County **9**:113s
Cardiff mine (west of), Cottonwood district, Wasatch Mountains **3**:275s
Central Eureka mine, Eureka **3**:37h,s
Church Hills, Millard County **19**:311s
Daly-Judge mine, near Park City, Wasatch County **21**:257s
Deep Creek Wash, Caineville, Wayne County **18**:361s, **19**:333s
Deer Trail mine, Mt. Baldy district, Tusher Mountains, near Marysville, Piute County **12**:389s, **21**:256s, **25**:59s
Dexter No. 7 mine, Emery County **19**:117s, **19**:333, **24**:48s
Drum Mountains, Juab and Millard counties **10**:261–278m,g,h
Dry Canyon, Ophir district, Tooele County **21**:484s
Dugway Dell, Juab County **16**:137s
Dugway Range, Tooele and Juab counties **10**:261–278m,g,h, **22**:384s
Eureka Centennial mine, Tintic district **9**:113s
Eureka, Juab County **24**:308s
Fairfield, Utah/Tooele counties **6**:10s, **8**:517s, **11**:33–34s, **16**:245s
Five Mile Pass, Tooele County **23**:425ff,s
Garnet Basin, Thomas Range, Juab County **10**:273, **18**:198g
Gold Hill mine, Deep Creek Mountains, Tooele County **2**:212–213s, **15**:113s, **19**:333s, **20**:70s, **20**:391s, **24**:11–22h,m,g,p
Grand County **9**:113s
Green River formation **8**:368–379h,g
Happy Jack mine, White Canyon **2**:210s
Hidden Treasure mine, Tooele County **24**:48s
Holfert-Allred property, near “tin mine,” Thomas Range, Juab County **23**:428s
Honeycomb Hill, Juab County **1**:30s, **2**:27s
Huntington Canyon, Emery County **21**:484s
La Sal Mountains, San Juan/Emery counties **16**:245s
La Sal, San Juan County **15**:177h
Lion Hill, near Ophir, Tooele County **22**:384s
Little Green Monster variscite mine, Clay Canyon, Utah County **7**:269–270h
Lookout Pass, Tooele County: **20**:391s; near Lookout Pass **21**:484s
Mineral Collectors of Utah formed; newsletter published **15**:196
Mineral Mountains, Beaver County **20**:391s
Mt. Carmel Junction, Kane County **20**:463s
Needle Range, Beaver and Iron counties **10**:261–263m,g, **10**:277g,h
Nevada lode, near La Sal, San Juan County **21**:256s, **21**:484s
Pine Grove district, Beaver County **24**:48s
Pismire Knolls, Topaz Valley, Thomas Range, Juab County **10**:273
Ponderosa Park, Needle Range, Iron County **10**:277
Posey mine, White Canyon district, San Juan County **19**:333s
Repete mine, San Juan County **22**:384s, **24**:48s
Searle Canyon, Thomas Range, Juab County **24**:48s
Spider mine, Honeycomb Hills, Juab County **12**:385s
Spor Mountain, Thomas Range, Juab County **10**:261, **10**:262m, **10**:269
Thomas Range, Juab County **7**:309h, **10**:261–278m,g,p,h, **16**:143s, **17**:342s, **25**:59s
Thorpe Hill, Tooele County **21**:484s
Tintic district, Juab County **16**:123s
Tooele County (locality not specified) **22**:384s
Topaz Mountain, Thomas Range, Juab County **7**:222, **10**:271–274p,g, **23**:491g
Topaz Valley, Thomas Range, Juab County **10**:271–274p,g
Tuscarora mine, near Randolph, Crawford Mountains, Rich County **24**:48s
Violet claims, Wah Wah Mountains, Beaver County **10**:275–276h,g,p, **22**:53s, **23**:438s, **25**:382s
Wah Wah Mountains, Beaver and Iron counties **7**:222, **9**:36, **10**:124, **10**:261–278m,g,p,h, **18**:246s, **20**:391s, **21**:484s
White Canyon district, San Juan County **21**:484s, **22**:384s
-
- UVAROVITE**
Vs. chromian grossular **10**:42
Canada
Québec
Orford mine (id as chromian grossular) **25**:340q
Italy
Lombardy
Val Malenco **3**:122
Turkey
Kop Krom mine, west of Erzerum (crusts, micro crystals) **9**:284, **9**:285d
Russia (formerly USSR)
Sarany, Ural Mountains (2 mm euhedral) **25**:218n
Ural Mountains **22**:459n
United States
California
Jacksonville (near), Tuolumne County (crystals to 5 mm) **21**:481n
New Jersey
Sterling Hill (id as goldmanite) **21**:426q
Pennsylvania/Maryland
Line pit, State Line district (poss. id) **12**:155
-
- UVITE**
See also Tourmaline Group
Characteristics and occurrences **8**:100–108h,c,d,p,q
Brazil
Bahia
Brumado mine: **19**:115n, **19**:209–210p; equant, red **18**:244n; uvite-dravite, acicular **23**:432n; red, green **23**:274p, **23**:276; red, green, brown crystals **25**:212p, **25**:215
Canada
Ontario
Tait farm, near Lamable (uvite-dravite) **13**:73q, **13**:79p, **13**:80
Greenland
Godthåb district **18**:357n
Myanmar Republic (formerly Burma)
Mogok (near): green chromian **25**:61; id as vanadian dravite **25**:301
Nepal
Sirkhet (near) (yellow-brown to orange) **16**:417
Pakistan
Haramosh **19**:271n
United States
New Jersey
Fowler quarry, Sussex County **8**:101d,p, **8**:104–105c,q
Hamburg, Sussex County **8**:104–105q
New York
Beaver Creek area, St. Lawrence County (uvite-dravite) **17**:(342)

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DeKalb, St. Lawrence County (light brown, colorless) **8**:105q, **8**:106
Gouverneur, St. Lawrence County **8**:101–106p,q
Horicon, Warren County (to 10 cm) **8**:105q, **8**:106
Pierrepont, St. Lawrence County **8**:105q, **8**:106p, **8**:108d
Powers farm, St. Lawrence County **19**:(333)
Selleck Rd. (south of), St. Lawrence County (uvite-dravite, euhedral) **23**:425n, **23**:426p

Zimbabwe

St. Anne's mine **19**:122n

UYTENBOGAARDTITE

Localities not specified **13**:392q, **13**:393h

Three world localities listed **13**:393

Indonesia

Tambang Sawah, Sumatra **16**:55h

Russia (formerly USSR)

Smeinogorski, Altai region **16**:55h

United States

Nevada

New Bullfrog mine, Nye County (grains)

23:425

Comstock lode, Storey County **16**:55h

UZBEKISTAN

Formerly USSR

Fergana, Tyuya Muyun Hills **18**:335s

Kochoulak **24**:52

Uzbek Science Education Center (Geological Museum) **24**:316–317p

GENERAL INDEX

VAESITE

United States

Missouri

Sweetwater mine, Reynolds County (minute crystalline; tentative id) **9:111–112p,q**

Zaire

Shinkolobwe mine **20:277**

“VALENCIANITE”

See Orthoclase

VALENTINITE

Bolivia

Oruro district: crystals to 2 cm **6:134**; 1 cm crystals **8:517n**

Porvenir mine, Huanuni district: crystals to 5 cm **6:134**; crystals to 1 mm **5:38–39c,d**

Canada

New Brunswick

Lake George mine (acicular to 4 cm) **22:267**

Québec

Lac Nicolet mine, Wolfe County **18:(363), 19:334n, 24:223n**

China

Lengshuijiang, Hunan (after stibnite, to 35 cm) **22:388n**

Xikuangshan mine, Lengshuijiang (valentinite/cervantite after stibnite) **23:277**

Italy

Tuscany

Cetine mine (crystals) **15:35p,c**

Pereta mine (on and after stibnite) **15:25p**

Macedonia (formerly Yugoslavia)

Allchar **24:445n**

United States

California

Antimony Peak, Kern County (crystals) **3:81**

Darwin Antimony mine, Inyo County **15:(17)**

Stayton mine, Stayton district **20:434**

Yellow Jacket mine, Stayton district **20:434**

VALLERIITE

Brazil

São Paulo

Jacupiranga mine **15:266, 15:267p**

Canada

Québec

Marbridge #1 mine, Malartic district (veins to 6 mm) **7:177**

South Africa

Transvaal

Palaboro carbonatite, Loolekop **9:(114)**

United States

Arizona

Pima mine, Pima County **8:(517)**

Tucson, Pima County **9:(113)**

VANADINITE

Preparing and preserving specimens **2:258**

Use of varietal name “endlichite” discouraged **15:349–350q**

Australia

New South Wales

Broken Hill **7:31**

Tasmania

Magnet mine **19:(383)**

Austria

Altstefanie dump, Bleiberg district **17:367**

Brazil

Minas Gerais

Mina Grande quarry, near Itacarambi (long prismatic to 5 cm) **6:285p, 6:287–288, 6:290p**

England

Cumbria

Brandy Gill Lead mine (cream-colored globular) **22:120**

Caldbeck Fells **22:120**

Carrock mine (brown/cream zoned) **22:120**

Ingray Gill **22:(120)**

Old Potts Gill mine (brown) **22:120n**

Warwickshire

Judkins quarry **21:492n**

France

Les Farges mine, Corrèze **13:(267)**

Greece

Laurium area (crust) **7:123n**

Italy

Tuscany

Buca della Vena mine **17:266n, 17:267p**

Mexico

Chihuahua

Los Lamentos (brown arsenian, “endlichite”) **11:285p, 11:286**

Morocco

Locality not specified **10:188, 10:190p**

Mibladen **7:243p, 7:245p, 11:316, 12:187**

Touissit mine (beige “pyromorphite” id as) **15:347–350p,q**

T-West mine, Mibladen **20:69n, 20:396n**

Namibia

Tsumeb **8:T34n, 8:T62p**

Scotland

Dumfries and Galloway

Belton Grain vein, Wanlockhead (brown) **12:247p**

United States

Arizona

Amazon Wash, Maricopa County (in quartz) **11:265n**

Apache mine, Gila County: red equant prismatic to 1 cm **2:255, 2:257p**; red euhedral to 6 mm **21:481n**

Apache mine, Pinal County: **15:113p**; to 1 cm, with chatoyant zones **15:177**

C & B mine, Gila County: **6:109, 11:216**; rosettes **11:218p**

Castle Dome district, Yuma County (green) **19:331n**

Grey Horse mine, Pinal County (cavernous crystals) **11:232–233p**

Hamburg mine, La Paz County (brilliant red to 1.5 cm) **11:137–139p**

J. C. Holmes claim, Santa Cruz County: pyramidal **17:112–115p,c,d,q**; pyramidal terminations **15:44–45n**

Mammoth mine, Pinal County: **11:167p, 11:170**; altering to descloizite **11:264n**

Old Yuma mine, Pima County: micro **11:261n**; some complex, cavernous, some after wulfenite **14:97p,d, 14:106c, 14:(326p)**

Puzzler mine, Yuma County **20:236, 20:(387)**

Ramsey mine, La Paz County: brown **23:275p, 23:276**; brownish-green, not pyromorphite **22:381n**

Romaldo Pachecos mine, La Paz County (multiple crystal) **11:139–140p**

Rowley mine, Maricopa County: red, brown, yellow to 4 mm **5:24, 5:26p**; some perimorphs after wulfenite **17:404–405n**

Shattuck shaft, Bisbee district (arsenian, 2 cm crystals) **12:315**

Tonopah-Belmont mine, Maricopa County **19:141p, 19:143**

Western Union mine, Mohave County (acicular bundles) **21:481–482p**

California

Darwin mines, Inyo County **15:(17)**

Jensen quarry, Riverside County (acicular, with clinobisvanite) **15:281, 15:286**

Nevada

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

Chalk Mountain mine, Churchill County (arsenian; 5 mm elongated crystals) **13:220–221p**

Hillsboro area, Sierra County **20:60n**

Petroglyph mine, Sierra County **20:59n**

Socorro Peak, Socorro County **20:61n**

New Mexico

Red Cloud mines, Lincoln County **11:71**

Pennsylvania

Phoenixville **20:383**

Southwest Chester County mine **20:383**

Zambia

Broken Hill mine (botryoidal) **11:347p**

“VANADINOCKER”

Vanadium oxide, not formally described

Namibia

Tsumeb (naturally occurring; coatings) **8:T34**

VANADIUM MINERALS

See also names of species

Review and classification of 125 species **18:333–340**

VANDENBRANDEITE

Zaire

Luiswishi copper mine, Shaba **20:(268h)**

Musonoi mine **9:33, 9:(114)**

Shaba (formerly Katanga) **20:287**

Shinkolobwe mine **20:287**

VANDENDRIESSCHEITE

Zaire

Shinkolobwe mine **9:34, 9:(114)**

VANMEERSCHEITE

United States

Maine

Dunton quarry (yellow coatings) **22:382**

VANURALITE

See also Metavanuralite

Vs. meta-vanuralite **2:129q**

Gabon

Franceville **8:(390)**

Mounana (crystals to 3 mm) **6:239d, 6:242, 6:246p**

VARISCITE

Australia

New South Wales

Kintore opencut, Broken Hill (strengite-variscite) **19:433q**

Queensland

Mt. Oxide mine **19:486**

South Australia

Iron Monarch quarry, Iron Knob (red crystal groups, uncertain id) **12:106, 12:107p**

Brazil

Minas Gerais

Hapecerica (near) (green microcrystals) **24:49n**

Sapucaia area **2:(12)**

Spain

Between Palazuelos de las Cuevas and Bercianos de Aliste, Zamora **25:222n**

Sweden

Leveäniemi iron mine, Norrbotten **20:346**

United States

Alabama

Indian Mountain, Cherokee County **20:358**

Rock Run Station **20:361**

Arizona

Cole shaft, Bisbee district (15 kg masses) **12:315**

Arkansas

County Pit, Mauldin Mountain, Montgomery County (euhedral single crystals) **16:293–295p**

California

Stewart mine, San Diego County (red) **19:331**

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- Georgia
 Indian Mountain, Polk County: **20:358**; see also Variscite—United States—Alabama—Indian Mountain
- North Carolina
 Winston-Salem, Forsyth County: **2:284**; green banded, apparently formed from industrial water pollution **2:231p**
- Utah
 Little Green Monster variscite mine, Utah County (massive, in nodules) **7:269–270**
- Virginia
 Willis Mountain mine, Buckingham County **23:(428)**
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- VASHEGYITE**
- Brazil**
 Minas Gerais
 Enio pegmatite, near Galiléia (uncertain id) **12:72**
- United States**
 Nevada
 Manhattan (near), Nye County (“trainite” id as mixture containing) **16:55h**
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- VASILITE**
- Bulgaria**
 Novoseltsi **23:433n**
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- VATERITE**
- Canada**
 Québec
 Mt. St-Hilaire **23:429**
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- VAUQUELINITE**
- Australia**
 New South Wales
 Kintore opencut, Broken Hill (vauquelinite-formacite) **19:433, 19:434p**
- Tasmania
 Adelaide mine **19:(384)**
- Scotland**
 Strathclyde/Dumfries and Galloway
 Leadhills-Wanlockhead district **12:(250)**
- United States**
 Arizona
 Tonopah-Belmont mine, Maricopa County **19:143**
- Nevada
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- VAUXITE**
- Bolivia**
 Llallagua **5:37h**
- Miraflores mine, Hunauni (dark blue aggregates) **13:41–42p**
- Siglo XX mine, Llallagua **13:41n**
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- Finland**
 Viitaniemi, near Eräjärvi **4:124, 9:(113)**
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- VEATCHITE-A**
- Turkey**
 Killik and Hisarcik mines, Emet colemanite deposit (announced) **10:301h,q,c**
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- VEENITE**
- Canada**
 Ontario
 Madoc (near) **13:94, 13:95p,q**
 Taylor farm, near Madoc **13:(80)**
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- VEGASITE**
- United States**
 Nevada
 Rosella prospect, near Boss mine, Clark County (poss. plumbojarosite) **16:55h**
-
- VELIKITE**
- Locality not specified (announced) **9:116h**
- United States**
 Arizona
 Campbell shaft, Bisbee **24:435n**
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- VENEZUELA**
- El Dorado, Gran Sabana **24:223s**
 Santa Elena area gold placers **18:89m, 19:271s, 21:501s**
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- VERMONT**
- Adopts “official gem” (grossular), “official mineral” (talc), “official rocks” (marble, slate, granite) **23:455**
- Bibliography of locality literature **18:226**
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 Carleton talc quarry, near Chester **10:51–52s**
 Chester, Windsor County **4:141s**
 Eden Mills, Lamoille County **25:214s**
 Manchester (near), Bennington County **21:484–485s**
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- VERSILIAITE**
- Italy**
 Tuscany
 Buca della Vena mine **17:266–267**
-
- VERTUMNITE**
- Italy**
 Lazio
 Campomorto, Viterbo (announced; micro prismatic) **9:40h,q**
-
- VESIGNIEITE**
- England**
 Leicestershire
 Bardon quarry, Coalville: **19:337n**; platy **24:392s**
- United States**
 Nevada
 Newmont mine, Eureka or Elko counties (2 mm euhedral) **22:383**
- Zaire**
 Mashamba West mine: **19:338n**; 2 mm crystals **22:20**
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- VESUVIANITE**
- History and comprehensive survey; over 200 localities **4:164–174h,q,c,p**
- Austria**
 Brandrücken (near), Carinthia/Styria **17:(110)**
 Totenkopf, Salzburg **17:(107)**
- Brazil**
 São Paulo
 Jacupiranga mine (thin radial crystals) **15:269**
- Canada**
 British Columbia
 Ice River complex (cleavages to 8 cm) **12:224**
- Ontario
 Pinchin quarry, near Malone: **9:93p**; 10 cm crystals **13:81p,c**
 York River tactite zone near Bancroft **13:81n, 13:227n**
- Québec
 B.C. and Beaver mines, Thetford **21:(393)**
 Jeffrey mine: **10:76c, 10:79q, 10:80d, 21:236, 21:393, 22:386**; green to 18 cm, some purple **22:216s**; some purple **9:247, 9:248p, 9:249, 15:166p**
 Mt. St-Hilaire: **13:(244), 19:326n, 19:328p**; prismatic to 4 cm, tabular, acicular **21:344–345p**
 Poudrette quarry **18:(363)**
-
- England**
 Devon
 Meldon quarry (clear crystals) **21:492n**
-
- Italy**
- Liguria
 Val Gave (doubly terminated crystals to 4 cm) **10:86**
- Piemonte
 Condove, Val di Susa **10:86n**
- Valle d’Aosta
 Bellecombe: **15:117n**; brown **23:434n**
 Montjovet **10:86, 10:87p**
 St. Vincent **10:86**
-
- Mexico**
- Veracruz
 Locality not disclosed: **24:51n**; euhedral stubby to 3 cm **23:500p**
-
- Norway**
 Arendal, Aust Agder **15:144c**
- Russia (formerly USSR)**
 Acharand (Achtaragda) River **18:159n**
 Chemyshevsk, Yakutsk **22:459**
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- Cape Province
 N’Chwaning II mine (3 mm euhedral) **22:294**
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- Taiwan**
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- United States**
- Arizona
 Sacramento Hill area, Bisbee district **12:315n**
- California
 Darwin district, Inyo County **15:17n**
 Jensen quarry, Riverside County **15:289n**
- Colorado
 Italian Mountain area, Gunnison County (prismatic; some fibrous) **15:85c,p,d**
- Maine
 Sanford deposit, York County (green prismatic to 7 cm) **24:363p, 24:364**
- New Mexico
 Iron Mountain, Sierra County (“idocrase”) **20:60n**
-
- VESZELYITE**
- Scotland**
 Dumfries and Galloway (formerly Lanarkshire)
 Wanlockhead (5 mm crystals) **25:46**
-
- United States**
- Montana
 Black Pine mine, Granite County: **11:192; 17:(342), 19:114–115n**; crystals to 5 cm **23:481p, 23:482–483**; 3 cm crystal **15:166p**
 Philipsburg, Granite County: 2 mm crystal **14:51p**; 2.5 cm crystals **12:183**
- Zambia**
 Broken Hill **12:(394)**
-
- “VICANITE-(Ce)”
- Species status uncertain*
-
- Italy**
- Lazio
 Vetarella, Vico (crystals to 1 mm) **23:434n**
-
- VIDEO MINERALS**
- Video mail order catalog introduced **18:115–116**
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- VIITANIEMIITE**
-
- Pakistan**
 Dassu, Gilgit Division (crystals over 1 cm) **23:431p, 23:436n**
-
- VILLAMANINITE**
-
- Spain**
 Carmenes district, León **9:(113)**

VILLIAUMITE

Canada

Québec

Mt. St-Hilaire: **10**:103, **19**:325–326n,p, **20**:236; massive, crystals to 10 mm **21**:344–345p,d
Poudrette quarry **18**:(363), **20**:393, **24**:314n

Greenland

Ilímaussaq (1 cm crude crystals) **22**:48n

Kvaneffjeld drift (minute crystals) **24**:G25p, **24**:G27–28p,d

Guinea

Kassa, Îles de Los **9**:114s

Rouma, Îles de Los **9**:113s

Russia (formerly USSR)

Lovozero, Kola Peninsula **23**:280

United States

New Mexico

Point of Rocks quarry, Colfax County (crystals to 1 cm) **15**:155p

VINOGRADOVITE

Canada

Québec

Mt. St-Hilaire (bladed, acicular to 3 mm) **21**:345

United States

Colorado, Wyoming, Utah

Green River formation **8**:368–371

VIOLARITE

Vs. polydymite **2**:53–56q

Australia

Western Australia

Agnew **9**:(113)

Canada

Québec

Marbridge #2 mine, Malartic district (massive cleaveable) **7**:176q

United States

Illinois

Hamilton/Warsaw area, Hancock County (id as polydymite) **2**:53–55p,q

Pennsylvania

Gap mine, Lancaster County (massive inclusions) **5**:209–210p,q,h

Three localities **2**:53

VIRGINIA

Amethyst localities **21**:213s

Amherst, Amherst County **18**:431s

Amherst County **21**:208

Bedford County **9**:113s

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Bibliography of Virginia Geology and Mineral Resources—1960–1969 **11**:51b

Campbell County **19**:333

Centreville, Fairfax County **17**:147s

Chantilly quarry, near Arcola, Loudoun County **8**:60

Fairfax quarry, Centreville, Fairfax County **3**:173–179h,g,p, **9**:98s

Gore, Frederick County **2**:223–224

Herbb #2 mine, near Flat Rock, Powhatan County **14**:390h,s

Kelly Bank mine, near Vesuvius, Rockbridge or Augusta County **10**:49s

Long Shop (near), Montgomery County **2**:130–132s

Luck Co. quarry, Leesburg plant, Loudoun County **15**:169s

Luck quarry, east of Charlottesville, Albermarle County **11**:15s

Lynch Station, Campbell County **18**:433s, **25**:377s
Minerals of the Washington, D.C. Area **13**:175b
Minerals of Virginia **7**:315b

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China

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Italy

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 bipyramidal **15**:372n

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Ontario

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Québec

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Czech Republic (formerly Czechoslovakia)

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Namibia

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United States

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United States

Colorado
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India

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Japan

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United States

Wyoming
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ZAHERITE

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Antelope mine **11:316s**
 Bakwanga district **23:437s**
 Dikuluwe mine, west of Kolwezi **17:341s, 22:14–20h,m,p,g**
 From Belgian Congo to Congo to Zaire; vs. Congo Republic **3:147h**
 Kakanda mine **22:393s**
 Kakanda or Kambove **20:398s**
 Kambove **15:168s**
 Kamoto (Kamoto-Est, Kamoto-East) mines, west of Kolwezi **20:267m, 20:274–276p,g,m, 20:398s, 22:14m, 22:53s, 23:495s**
 Kasolo **2:210–211s, 20:280s, 20:283s**
 Kasompi **8:390s, 8:391s**
 Katanga (see Shaba)
 Kingamyambo mine, west of Kolwezi **22:14m**
 Kipushi mine **21:501s**
 Kivu district **12:81**
 Kobokobo, Kivu **11:112s**
 Kolwezi mine, west of Kolwezi **7:133s, 8:390s, 22:14m**
 K.O.V. mine, west of Kolwezi **21:501s, 22:14m**
 Likasa mine, Panda Hill **22:17h**
 Likasi mine **8:517s, 9:113s**
 Locality not specified **18:162s**
 Lueshe mine **8:517s**
 Luiswishi copper mine **20:268h, 20:285s**
 Lukuni mine **25:46s**
 Maniema district **12:81, 12:82s**
 Manono **8:390s, 9:114s**
 Mashamba East mine, west of Kolwezi **21:501s, 22:14m**
 Mashamba mine **17:341s, 18:162s, 18:335s, 20:69s, 20:146s, 20:267m, 20:485–486s**
 Mashamba West mine, west of Kolwezi **19:338s,h, 22:13–20h,m,p,g, 22:217s, 22:393s, 23:277s, 23:437s**
 M'Fouati **3:200s**
 Midingi mine **18:207–209s**
 Mt. Misobo mine, Maniema **12:82s**
 Mupine mine, west of Kolwezi **17:147–148s, 18:411s, 19:122s, 19:338h, 22:14m**
 Musonoi mines, west of Kolwezi **9:114s, 13:33s, 13:44s, 15:45s, 20:274, 20:275m, 20:279–280s, 22:14m, 25:218s**
 Mutoshi mine, east of Kolwezi **22:14m**
 Nzombe, South Kivu **12:86s**
 Post-colonial political history of region **12:188**
 Prince Leopold mine **7:133s, 8:517s**
 Ruwe mine **20:285s**
 Shaba (formerly Katanga): **9:32g,h, 20:146s, 20:398s; special issue 20:#4**
 Shinkolobwe district **2:235s, 15:38s**
 Shinkolobwe mine **8:390s, 9:32–33h,g, 9:114s, 20:268h, 20:269p, 20:271–273m,h,g**
 Star of the Congo mine **15:45s**
 Status of various mines (1981) **12:188**
 Swambo mine **20:267m, 20:273–274p,g,h, 20:281s**
 Violence impedes exporting **23:495h**

ZAKHAROVITE

Canada

Québec

Mt. St-Hilaire (formerly UK#38; minute flakes) **24:388n**

Russia (formerly USSR)

Kola Peninsula **24:(389)**

ZAMBIA

Formerly Northern Rhodesia

Balachardra, Malawi (west of) **23:437s**
 Broken Hill mine, near Kabwe **5:263–264h,s, 9:113s, 11:319, 11:339–348h,p,g,m, 12:394s**
 Chingola (formerly Nchanga) mine **4:246–247**
 Kasola Hill uranium mine, southwest of Kambove **5:264g,h**

Mindola open pit, Rokana mine **9:66s**
 Mufulira **11:317s**
 Ncganga mine (see Chingola mine)
 Post-colonial political history of region **12:188**
 Rokana mine, near Kitwe **9:341–346g,h,m**

ZANAZIITE

Brazil

Minas Gerais

Ilha mine, near Taquaral (newly described) **21:413–417h,q,p,c**

ZAPATALITE

Mexico

Sonora

Cerro Morita (near) (newly described) **5:40h,q**

ZARATITE

United States

Pennsylvania/Maryland

Line pit, State Line district **12:154–155**

ZEKTZERITE

Tajikistan (formerly USSR)

Dara-i-Pioz, Tien-Shan (5 cm cleavages) **22:393n**

United States

Washington

Washington Pass, Okanogan County: **20:(152);** announced; crystals to 37 mm **9:253h,q**

ZEMANNITE

Mexico

Sonora

Moctezuma mine: **8:(390);** tabular to prismatic crystals **1:42**

ZEOLITE DEPOSITS

Deccan basalts, Maharashtra, India **7:248–264**
 Durham quarry, Durham, NC **6:300–301**
 Faeroe Islands (Denmark) (20 localities) **12:5–26h,m,p,g**
 Flinders area, Australia **19:451–460**
 Horseshoe Dam, AZ **14:115–117**
 Iceland (17 localities) **12:5–26h,m,p,g**
 Ireland **10:173–176**
 Krasnoyarsky Kray, Yakutia **23:433n**
 Lucky Peak Dam site, east of Boise, ID **23:424n**
 Malpais Hill, AZ **14:109–113q**
 New South Wales, Australia **19:389–406**
 Northern Ireland **24:52n**
 Palabora mine, Transvaal, South Africa **22:255–262**
 Pandulena Hill, near Nasik, India **13:305–309**
 Paterson, NJ, area **9:157–179**
 Philip Island, Australia **19:451–460**
 Puu o Ehu quarry, HI **15:95–97**
 Santa Lages (south of), Santa Catarina, Brazil **2:13**
 Skookumchuck Dam, WA **3:30–34**
 South Island, New Zealand **14:49–50**
 Table Mountain, CO **19:153–184**
 Victoria, Australia (micro) **12:107–108**
 Yellowstone National Park, WY **12:29–38**
Zeolites of the World. Rudy Tchernich **23:410–411b**

ZEOLITE GROUP

See also names of individual species; Zeolite Deposits

Italy

Sicily (east coast) **17:(205)**

United States

Nevada

Julie claim, Mineral County (massive, with epidote; tentative id) **16:79**

ZEOPHYLLITE

Canada

Québec

Mt. St-Hilaire (minute plates, aggregates) **21:347p**

Germany

Rheinland-Pfalz

Laacher See area, Eifel district (crusts) **8:325**

ZEUNERITE

See also Metazeunerite

Brazil

Bahia

Brumado mine: **23:276n;** 2 cm crystal **23:432n**
 Pedra Preta mine (tabular to 3 cm) **7:129**

Canada

Northwest Territories

Port Radium **20:(207)**

England

Cornwall

Roughton Great Consols **20:395**

France

Rabéjac quarry, Hérault (zeunerite-metazeunerite, plates to 2 mm) **23:433n**

United States

Arizona

Grandview mine, Coconino County (and/or metazeunerite; tabular crystals) **2:219, 2:221q**

Nevada

Majuba Hill mine (2 mm crystals) **16:71c**

Zaire

Kamoto mine (KOV extension) **20:288**

ZIESITE

El Salvador

Izalco volcano **18:(339)**

ZIMBABWE

Formerly Southern Rhodesia, then Rhodesia

Globe and Phoenix mine, Que Que **4:280s**

Harare **19:124s**

Indarama mine, Sebakwe area, Que Que **13:395s**

Jessie mine, Gwanda district **13:395s**

Last Hope mine, Karoi district **17:341s**

Lone Hand mine, Gwanda district **13:395s**

Lost Hope mine, Miami pegmatite fields, Karoi district **21:256h,s**

Miami **10:179s**

Novello claims, Ft. Victoria **19:271s**

Nyanda (formerly Fort Victoria) **11:316s**

Port Victoria area **18:148s**

St. Anne's mine **19:122s, 20:147s**

ZINCALUMINITE

Greece

Kamaréza mine, Laurium (crusts) **7:123n**

ZINCITE

Gemmy, attributed to Poland or to Tuscany, Italy, proved synthetic **24:236**

Poland

Olkusz mine: **22:478c,q;** clear, acicular, prob. post-mining, "from the Great Mine Fire" **22:391**

United States

New Jersey

Franklin/Sterling Hill **19:273n**

Sterling Hill mine (micro flat twins) **10:45–47p**

Zambia

Broken Hill **12:(394)**

ZINC-MELANTERITE

Greece

Kamaréza mine, Laurium (powdery) **7:123n**

GENERAL INDEX

ZINCOBOTRYOGEN

United States

Arizona
Bisbee **24:435n**

ZINCROSASITE

Australia

New South Wales
Kintore opencut, Broken Hill (rosasite-zinc-rosasite) **19:432**

“ZINC-STOTTITE”

See Stottite

ZINKENITE

Keeleyite discredited as **5:35h**

Bolivia

Oruro district (felted masses) **6:134**
San José mine, Oruro district: acicular **14:389**;
crystals to 5 cm **6:134**

Canada

Ontario
Taylor farm, near Madoc **13:(80)**

France

Saint-Pons (near), Haute-Provence (cupriferous;
thick needles) **24:43**

Italy

Tuscany
Calagio quarries **18:278q**

United States

Colorado
Brobdignag prospect, San Juan County (some
id as guettardite) **7:275**
Silverton district, San Juan County **10:359n**

ZINNWALDITE

Brazil

Minas Gerais
Virgem da Lapa pegmatites (15 cm anhedral)
13:28

Greenland

Narssárssuk (prob. id) **5:123**

Italy

Lombardy
Baveno area (7 cm crystals) **14:165–166**

Madagascar

Anjanabonoina **20:200**

United States

Colorado
Crystal Peak, Park County **16:224n**
Harris Park (west of), Park County **22:382**
Pikes Peak batholith (zoned) **10:377p**
Specimen Rock, El Paso County **16:224n**,
16:225p
Wigwam Creek, Jefferson County **16:224n**
Idaho
Sawtooth batholith (crystals to 7 cm; zoned
with masutomilite) **24:198–199p,q**
Washington
Washington Pass, Okonogan County (zoned
with masutomilite) **18:361**

ZIPPEITE

Canada

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

Zaire

Shinkolobwe mine **20:288**

ZIRCON

Australia

Northern Territory
Mud Tank (2 cm gemmy) **21:487n**
South Australia
Moonta mines **19:(412)**

Brazil

Minas Gerais
Córrego Bom Sucesso, near Serro (micro
ovoid) **23:472n**

Córrego Frio mine, near Linópolis (color-
less) **14:233**

Jaguaraçu pegmatite (groups to 15 cm)
25:167p, **25:170**

Zé Pinto mine, Conselheiro Pena (tiny tan
euhedral) **21:408n**

São Paulo

Jacupiranga mine **15:269**

Canada

British Columbia

Ice River complex (lavender 1 mm euhedral)
12:224

Ontario

Bancroft area (5 localities) (“cyrtolite”)
10:158p

Canadian Beryllium Mines and Alloys Ltd.
properties, Renfrew County **13:85n**

Cardiff mine, near Wilberforce (“cyrtolite”)
13:81–82p

Davis Hill (equant to 1 cm) **21:245**

Davis quarry, near Bancroft (large masses in
parallel growth) **13:86n**

Foymont **19:334**

Golding-Keene quarry, near Bancroft **13:86n**
Highway 62 roadcut north of Bancroft
13:(111)

J. G. Gole quarry, Renfrew County **13:85n**

Lake Clear-Kuehl Lake area, Renfrew
County: **13:201–202**; crystals to 30 cm
13:81n; twins **13:210–212c,p,d**

MacDonald mine, Hastings County: **13:85**;
“cyrtolite” **13:199–200**

McKay property, near Gooderham (“cyrtolite”)
13:86n

McLaren mine, Lanark County **13:81n**

Princess sodalite mine, near Bancroft **13:(227)**
Saranac mine, near Tory Hill **13:85n**, **13:(111)**

Silver Crater mine, near Bancroft **13:76p**,
13:81n

Silver Queen mine, Lanark County **13:81n**
Smart mine, Renfrew County: **13:201–202**,
13:211–212c,d, **19:(334)**; twins to 10 cm
13:81n

Smith-Lacey mine, near Sydenham **13:81n**
Tory Hill (near) **13:81p**

Verona (near), Frontenac County **13:81n**
Westmeath Township, Renfrew County
 (“cyrtolite”) **13:81n**

Wilberforce (near): **13:81**; brown to 10 cm
21:485n

York River tactite zone, near Bancroft
13:227n

Québec

Gatineau Park (Chaput-Payne prospect),
Gatineau County (crystals to 1 cm) **11:80**

Kipawa complex, Timiskaming County:
19:(335), **21:(486)**; to 5 cm **22:386n**

Matilda Lake (near), Argenteuil County (pris-
matic to 5 cm) **22:386n**

Mt. St-Hilaire: **10:104**, **13:(244)**, **19:328n**;
bipyramidal to 2 cm; some fl. **21:347–**
348d,c

England

Merseyside

Thurstaston (rod-like) **21:492n**

Germany

Rheinland-Pfalz

Laacher See area, Eifel district **8:325d**, **10:92p**
Mendig, Eifel district (micro) **25:209p**

Greenland

Narssárssuk (crystals to 6 cm) **5:123**

Italy

Lombardy

Baveno area (micro) **14:166**

Trentino Alto-Adige

Sterzinger Hütte, Pfitschertal (red; fades in
light, returns in darkness) **10:87**

Tuscany

Elba (pale green micro) **16:359–360**

Madagascar

Tranomaro **19:337n**

Malawi

Mt. Malosa region (various habits to 1 cm)
25:33p, **25:38c**

Moon

Minute grains **1:22**

Norway

Alta, Finnmark: **13:181n**, **13:184p**; crystals to 5
cm, some gemmy **13:51**

Gjerdingen, Nordmarka region (bastnäsite af-
ter) **11:88n**

Seiland Island, Altafjord: **19:271n**, **20:397**; end
of collecting **22:47**; red **17:341n**

Pakistan

Bulbin, Northern Areas (2 cm crystals) **25:218**
Locality not specified **20:146**

Stak Nala (near), Gilgit Division (yellowish-
green) **16:407c**, **16:410p**

Russia (formerly USSR)

Lovozero, Kola Peninsula (red-brown) **17:341n**,
21:173n

Ural Mountains **1:(86)**

Sri Lanka

Ambilipitiya, near Kataragama **25:57n**

United States

Arizona

New Cornelia mine, Pima County **14:297**
Northwest of Bisbee **12:315**
Tonopah-Belmont mine, Maricopa County
19:143

California

Himalaya dike system, San Diego County
(euhedral to 1 cm; some uranian) **8:471**

Jensen quarry, Riverside County (brown,
amber, green; xenotime epitaxial on some)
15:286–287d,c

Little Three pegmatites, San Diego County
20:(106)

Colorado

Eureka tunnel, El Paso County: **5:187n**; some
gemmy **16:229–230n**

Little Patsy quarry, Jefferson County (“cyrtolite”)
21:429n

Mt. Rosa, El Paso County **16:229n**

North Cheyenne Canyon, El Paso County
(large “octahedral” crystals) **16:222p**,
16:229

Pikes Peak region **16:229–230**

Saint Peter’s Dome area, El Paso County:
16:229n; gemmy **5:187**

South Platte district, Douglas County (“cyrtolite”)
16:230n

Maine

Bell Pit (micro, “cyrtolite”) **1:114**

Bennett quarry (to 1 cm) **25:183**

Franklin **19:332n**

New Hampshire

Carroll County **20:391**

New Jersey

Bemco mine, Sussex County (euhedral to 2
cm; metamict) **11:39**

Sterling Hill: minute crystals **10:163p**; 1 mm
crystals **21:426n**

New Mexico

Harding mine **8:124**, **20:64n**

Oregon

Summit Rock, Douglas County (minute cav-
ernous crystals; SEM photos) **9:392–393p**

GENERAL INDEX

South Carolina

Tigerville, Greenville County: **2:26h**; euhedral bipyramidal to 3 cm **1:97p**, **1:101ff**

Texas

Clear Creek pegmatite, Burnet County ("cyrtolite") **8:90**

ZIRKELITE

Brazil

São Paulo

Jacupiranga mine (crystals to 5 mm) **15:269**

Norway

Agnes Sandefjord, Vestfold (zirkelite-30Å) **23:435n**

ZNUCALITE

France

Mas d'Alary, Herault (minute crystals) **23:434n**

ZOISITE

Austria

Prickler Halt, Carinthia **19:42h**

Canada

Québec

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

Italy

Navara **20:396**

Norway

Jutenheimen area, Oppland or Fjordane (pink, "thulite") **9:318**

Nordli, Nord-Trøndelag ("thulite") **23:436n**

Søre Lia, Lom **20:(397)**

Pakistan

Alchuri Village, Gilgit Division: **24:219**, **24:229p**, **24:230**, **24:232p**, **24:233**; gemmy prismatic, strongly dichroic **24:52n**

South Africa

Transvaal

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

Tanzania

Arusha (blue, "tanzanite") **10:31n**, **10:32p**, **25:363–364p,h**

Merelani, Arusha (gemmy) **23:499n**

United States

Arizona

Mammoth mine, Pinal County (unconfirmed; poss. epidote) **11:177**

Spray shaft, Bisbee district **12:315**

Uncle Sam shaft, Bisbee district **12:315**

California

Jensen quarry, Riverside County (pink needles) **15:289n**

Colorado

Campbird mine, Ouray County **7:303n**

San Juan Mountains **10:359n**

Maryland

Rockville Crushed Stone Co. quarry, Montgomery County **17:(127)**

New Mexico

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

Pennsylvania

French Creek mine **25:(119)**

ZUNYITE

United States

Arizona

Quartzsite (near) (2 cm crystals, red fl.) **17:210n**, **17:212p**

Colorado

Silverton district, San Juan County **10:359n**

Zuni mine, San Juan County: **7:302n**; crystals to 5 cm **7:270h**

ZUSSMANITE

United States

California

Laytonville district, Mendocino County **8:433n**

ZVYAGINTSEVITE

Localities not specified **13:392q**, **13:393h**

Russia (formerly USSR)

Noril'sk area, Siberia (grains) **13:392n**

ZWIESELITE

In pegmatite environments **4:110–111**