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"HEIKOLITE"

Amphibole, poss. = crossite

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HENRITERMIERITE

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HERDERITE

See also Hydroxylherderite

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 - 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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HETEROSITE

- In pegmatite environments **4:112**
 Vs. purpurite **6:201**
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 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**
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 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
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 Santa Catarina
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Denmark
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 Cornwall
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Iceland
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India
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 Sayad Pimpri quarry, Nasik (10 cm crystal) **21:489n**
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 Lombardy
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 Tuscany
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Russia (formerly USSR)
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South Africa
 Transvaal
 Palabora mine (to 1 cm) **22:259p**
United States
 Arizona
 Malpais Hill, Pinal County **14:111–112p**
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 micro twinned **11:160d**
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 California
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 Colorado
 Italian Mountain area, Gunnison County **15:86n**
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 Connecticut
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 Hawaii
 Puu o Ehu quarry, Oahu **15:96p–97**

- Michigan
 Keweenaw County **23:M66**
 New Jersey
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 Pennsylvania
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 Washington
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 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**

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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**
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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
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HOLDAWAYITE

Namibia
Kombat mine **22:422h**

HOLDENITE

United States
New Jersey
Franklin **12:373–374h, 12:375q**
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HOLLANDITE

Australia
South Australia
Beltana mine (prismatic to 4 mm) **22:453**
Greece
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South Africa
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United States
Arizona
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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)
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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
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Zambia
Broken Hill: associated with fossil bones **11:344–346p,d,c; crystals to 2 cm 11:319**
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HORNBLLENDE

See also Magnesiohornblende

Brazil

São Paulo
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Ontario
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Québec
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Germany

Rheinland-Pfalz
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Norway

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United States

Arizona
Bisbee district **12:307**
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California
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Colorado
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Pennsylvania
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HÖRNESITE

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

Macedonia (formerly Yugoslavia)

Allchar **24:441**

Romania

Cavnik **22:437p**

“HORTONOLITE”

See Fayalite

HOWIEITE

United States

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

HOWLITE

Canada

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

HUANGHOITE

Greenland

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

“HUANTAHAYITE”

A poorly defined sodium/silver chloride

Chile

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

HÜBNERITE

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

Bolivia

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

China

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

Peru

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

United States

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

California

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

Colorado

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

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

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

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

Home Sweet Home mine (see Sweet Home mine)

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

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

San Juan Mountains **10:358n**

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

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

Montana

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

New Jersey

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

HUNGARY

Báňa (formerly Rezbánya) **13:398s**

Csordakút **19:30s**

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

Verespatak (see Romania)

HUNTITE

Australia

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

Brazil

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

United States

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

HUREAULITE

Four world localities **10:148h**

In pegmatite environments **4:122**

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

Brazil

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

Paraíba

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

United States

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

Maine

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

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

HURLBUTITE

Finland

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

United States

Montana

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

New Hampshire

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

South Dakota

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

HUTCHINSONITE

Peru

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

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

Switzerland

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

HYALOPHANE

Bosnia-Herzegovina (formerly Yugoslavia)

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

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

New Zealand

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

Russia (formerly USSR)

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

“HYDROANDRADITE”

South Africa

Cape Province

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

HYDROBASALUMINITE

United States

Arizona

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

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

“HYDROBIOTITE”

Interstratified biotite and vermiculite

South Africa

Transvaal

Messina district **22:193**

HYDROBORACITE

History **9:379h**

Seven world localities **4:21–22h**

Turkey

Bigadiç, Anatolia **10:124n**

United States

California

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

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

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

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

HYDROCALUMITE

Germany

Rheinland-Pfalz

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

HYDROCERUSSITE

Canada

Québec

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

England

Somerset

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

Greece

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

Namibia

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

Scotland

Strathclyde/Dumfries and Galloway

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

United States

Arizona

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

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

Idaho

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

HYDRODRESSERITE

Canada

Québec

Francon quarry **9:105p**

HYDROGLAUBERITE

Chile

Salar de Pintados, Tarapacá **1:14n**

“HYDROGROSSULAR”

Hibschite-katoite series

Canada

Québec

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

South Africa

Cape Province

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

HYDROHETAEROLITE

United States

Arizona

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

Colorado

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

Utah

Gold Hill mine **24:17**

HYDROHONESSITE

Australia

Western Australia

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

HYDROMAGNESITE

Brazil

Bahia

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

Canada

Yukon

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

Iran

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

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

Turkey

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

United States

California

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

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

Nevada

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

Pennsylvania

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

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

Pennsylvania/Maryland

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

“HYDROMICA” GROUP

See also “Hydrobiotite”; “Illite”

South Africa

Cape Province

Hotazel and Black Rock mines **9:151**

“HYDROMUSCOVITE”

See “Illite”

“HYDRONEPHELITE”

Mixture

Canada

Ontario

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

“HYDROPHILITE”

Poss. = antarcticite or sinjarite

Toxicity **11:6**

HYDROTALCITE

France

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

United States

New Jersey

Franklin mine **10:161**

HYDROTUNGSTITE

Bolivia

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

HYDROXYAPOPHYLLITE

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

Canada

Québec

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

India

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

Mexico

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

South Africa

Cape Province

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

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

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

United States

New Jersey

Bergen Hill **9:98n**

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

North Carolina

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

HYDROXYLAPATITE

Apatite group nomenclature **8:78–82**

In pegmatite environments (geochemistry, etc.) **4:108**

Australia

Western Australia

Milgun Station **12:(110)**

- Greenland**
Gardiner complex (some sprays in “melanite” andradite) **16:488–489p**
- Scotland**
Strathclyde
Leadhills (“lead hydroxylapatite”) **12:241p, 12:247d**
Susanna mine, Leadhills (“lead hydroxylapatite”) **12:247d**
Strathclyde/Dumfries and Galloway
Leadhills-Wanlockhead district (“lead hydroxylapatite”) **12:239h**
- Turkey**
Kop Krom mine, west of Erzerum (thin prismatic to 1 cm) **9:286**
- United States**
Colorado
Eagle (near), Eagle County (2.5 cm prisms) **14:173ff**
South Dakota
Tip Top mine (micro crystals) **17:242p**
- HYDROXYLBASTNÄSITE-(Ce), -(La), -(Nd)**
- Canada**
Ontario
Desmont mine, near Wilberforce (massive, granular) **13:225**
- HYDROXYLHERDERITE**
- Herderite/hydroxylherderite series: nomenclature, morphology, etc. **10:5–11h,q,c,d**
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Most “herderite” specimens actually hydroxylherderite **10:5**
Numerous world localities **4:120, 4:124**
- Brazil**
Minas Gerais
Golconda mine: large fourling twins **10:9–10d,c,p**; locality corrected to Marilac, north of Governador Valadares **10:251**
Jove Lauriano mine (micro crystals) **14:235**
Virgem da Lapa pegmatites: **13:26p, 13:27**; large euhedral **10:7d, 10:8–9p,c,q**
Xanda mine, Virgem da Lapa (8 cm crystal) **13:20p, 13:26p, 13:27**
- Paraíba
Alto Benedito pegmatite (crystals to 9 cm) **22:184p, 22:185**
Frei Martinho, north of Picuí (twinned, to 6 cm) **22:387n**
- Pakistan**
Dusso area, Gilgit Division **16:405–406c,p,q**
- United States**
California
MGM quarry, San Diego County (7 cm crystal) **21:481n**
Maine
BB #7 quarry, Oxford County (botryoidal; poss. beryllonite) **16:(375)**
Bennett quarry (crystals to 3 cm) **25:180p, 25:182**
Dunton mine **16:(382)**
Havey quarry, Androscoggin County **16:(375)**
Keith quarry, Androscoggin County **16:375**
Mt. Mica **16:372n**
Newry area (spheres to 5 mm) **6:197p, 6:199–200**
Pulsifer quarry, Androscoggin County **16:375**
Ski Pike quarry, Oxford County **23:(424)**
South Dakota
Tip Top mine (micro spheres) **17:242**
- HYDROZINCITE**
- Australia**
New South Wales
Broken Hill (some after smithsonite) **7:30**
Northern Territory
Moline (acicular) **12:110**
South Australia
Billy Springs mine **12:107n**
Western Australia
Ashburton Downs (granular, chalky) **24:213**
- Brazil**
Three localities (massive, fl. UV) **6:284, 6:289p**
- Canada**
British Columbia
Betty group, Betty Glacier, north of Divide Lake **15:(91)**
Willett mine, near Lardeau (fl. pale blue) **15:92p**
Québec
Mt. St-Hilaire (powdery, porcellaneous) **21:315**
- England**
Derby
Golconda mine, Hopton **14:21n**
Hazlebadge **14:21n**
Mill Close mine, Wensley **14:21n**
- Greece**
Kamaréza mine, Laurium (coatings) **7:124n**
- Mexico**
Chihuahua
Los Lamentos **11:285**
- Namibia**
Tsumeb **8:T26n**
- Scotland**
Strathclyde/Dumfries and Galloway
Leadhills-Wanlockhead district **12:(250)**
- Slovenia (formerly Yugoslavia)**
Mežica mine (sheets, stalactites; fl. in UV) **22:104**
- United States**
Arkansas
Rush Creek district, Marion County (chalky) **24:298**
Arizona
Campbell shaft, Bisbee district **12:307**
Magma mine **14:(82)**
California
Custer mine, Inyo County **15:15n**
Zinc Hill mine, Inyo County: **15:15n**; coatings **6:110p, 6:111**
New Jersey
Sterling mine (spheres to 1.5 mm, fl. UV) **25:100**
- Zambia**
Broken Hill **12:(394)**
- “HYPERSTHENE”
- Intermediate member of enstatite-ferrosilite series*
- Canada**
Québec
Mt. St-Hilaire (2 mm prismatic) **21:315**
- Germany**
Rheinland-Pfalz
Laacher See area, Eifel district **8:324c**
- United States**
Oregon
Summit Rock, Douglas County: acmite after **16:143n**; brown, brick red **12:44**; some with oriented hematite **16:137c, 16:140p**