

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 (Qeqertarsuaatsiaa) 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**

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)**

Tanzania

- Arusha **20:145**
Mpwa-Mpwa **23:268, 23:271p**

United States

- Arizona
Holbrook shaft, Bisbee district **12:311n**
Colorado
Italian Mountain area, Gunnison County **15:84**
Nevada
Julie claim, Mineral County **16:79**
New York
Amity area, Orange County **9:88–89p**
Pennsylvania
French Creek mine (columnar to 2 cm) **25:118**

SCAWTITE

Indonesia

- Java Sea, east of Jakarta **4:204**

United States

- Arizona
Christmas mine, Gila County **11:261n**
California
Crestmore quarry, Riverside County **10:41**

SCHAFARZIKITE

Italy

- Tuscany
Buca della Vena mine **17:266n**

United States

- Maine
Drew Hill sulfide veins, Aroostook County (red coating; “kermesite” id as) **22:382**

SCHAIRERITE

Canada

- Québec
Mt. St-Hilaire (crude to 1 mm) **24:388n**

United States

- California
Searles Lake: **8:(517)**; crystals to 2.5 cm; galeite oriented on **6:78–79c,d**

“SCHAPBACHITE”

High-temperature polymorph of matildite

United States

- Colorado
Tucson mine, Leadville district (coating galena) **16:181**

SCHAURTEITE

Namibia

- Tsumeb (minute fibrous) **8:T30–31**

SCHEELITE

Australia

- Queensland
Mt. Cobalt mine **19:(489)**
South Australia
Moonta mines **19:(412)**
Walleroo mines **19:416**

Austria

- Dunkelklamm, Salzburg (550 gm gemmy crystal) **17:106**
Hollersbachtal, Salzburg **17:(106)**
Knappenwand, Salzburg **17:178p**
Krimmler-Achental, Salzburg **17:(106)**
Lapervitzbachgraben, East Tyrol **17:(106)**
Rauris, Salzburg **17:(106)**
Schafkar, Salzburg **13:(173)**
Stubachtal, Salzburg **17:(106)**

Bolivia

- La Bomba mine, Conde-Auque district **6:137**

Brazil

- Minas Gerais
Morro Velho mine: **19:199n, 19:200p**; orange-red, to 25 mm **4:228**

Canada

- British Columbia
Highland Bell mine, Beaverdell **20:(465)**
Red Rose mine **2:205n**
Rocher Déboulé mine, near Hazelton: **2:205n**;
5 cm crystals **15:91n**
Tungsten Queen mine **2:207**

Ontario

- Sharbot Lake (10 cm crystals) **13:79**

Québec

- Mt. St-Hilaire (fl. grains) **21:333**

Central Africa

- Central African tungsten province (“reinite” ferberite after, to 20 cm) **12:81p,d**

China

- Gejiu, Hunan **23:267, 23:270p**
Guizhou (locality not specified) (4 cm gemmy orange) **24:232p, 24:233**
Hengyang, Hunan: **20:394**; euhedral to 1 cm **25:61**
Hunan (locality not specified): orange to 2 cm **25:138p, 25:140n**; to 12 cm **24:221p, 24:223**
Jiangxi province (some purple) **18:(326)**
Locality not specified **19:210n**
Sichuan (locality not specified) (to 10 cm) **24:49n**

Czech Republic (formerly Czechoslovakia)

- Slavkov (formerly Schlaggenwald) **19:(199)**

England

- Cornwall
Botallack district (crystals to 1.5 cm) **24:281**
Cumbria
Carrock Fell (2.5 cm euhedral) **1:(86)**
Devon
Wheal Friendship, Mary Tavy (to 4 cm) **13:169n**

France

- Mont Blanc massif (2 localities) **23:434n**

Greenland

- Godthåbsfjord area (anhedral) **24:G14**

Italy

- Lombardy
Baveno area (5 mm crystals) **14:165**
Piemonte
Traversella area mines (crystals to 7 cm) **4:39–41p**

Japan

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

Korea

- Four localities **8:394–395q,p**
Taewha mine, Chungchongpukdo: **5:222**; euhedral to 10 cm **10:133p, 10:135–136**
Tong Wha (crystals to 7.5 cm) **3:68**
Wolak mine, Chungchongpukdo (large fl. crystals) **5:222**

Russia (formerly USSR)

- Chukotka Peninsula: **25:216p, 25:218n**; 45 mm orange **23:279p, 23:280n**; orange to 5 cm **25:46**
Iultin, Siberia (orange to 3 cm) **24:389n**
Tengerkin, Chukotka Peninsula (orange to 4 cm) **25:139p, 25:140**

Spain

- Bejar, Salamanca **18:301**
Boal, Asturias (4.5 cm euhedral orange) **25:222n**

Uganda

- Namulilo mine, Kigezi (“reinite” ferberite after) **12:81p**

United States

- Arizona
Campbell shaft, Bisbee **24:433n**
Dragoon, Cochise County **19:(199)**

GENERAL INDEX

- Warren (near), Bisbee district **12:311**
- California
 Darwin district, Inyo County **15:(17)**
 Independence mine, Inyo County **15:17n**
 Jensen quarry, Riverside County (1 cm crystals) **15:289n**
 Thompson mine, Inyo County **15:16–17p,n**
- Colorado
 Camp Bird mine, Ouray County **18:432, 19:115–116n,p**
 East Campbird mine, Ouray County **20:146**
 Garbutt mine, Leadville district (1 cm crystals; some pyrite, wolframite after) **16:189p–190, 16:195**
 Golden Queen mine, Leadville district **16:(195)**
 Little Jonny/Ibex mine, Leadville district **16:(190)**
 Silverton district, San Juan County **10:359n**
- Connecticut
 Gillette quarry, Middlesex County (grains) **23:28**
 Trumbull, Fairfield County (wolframite after) **1:(86), 23:(499)**
- Maine
 Sanford deposit, York County (masses; crystals to 16 mm) **24:363**
- Nevada
 Getchell mine, Humboldt County: **19:(255); disseminated 16:20**
- New Mexico
 Ortiz mine, Santa Fe County **19:199n, 19:200p, 20:63n**
 Tungsten Hill, Luna County **20:57**
 Wichita mine **23:(425)**
- Rhode Island
 Johnston, Providence County (partly altered to powellite) **1:55**
- Washington
 Denny Mountain, King County (crystals to 38 mm) **8:15**
 Pedro claim, King County **21:485n**
- “SCHEFFERITE”
- See Aegirine*
- SCHERTELITE
- Australia**
 Victoria
 Skipton Cave, near Ballarat **19:361h**
- SCHIRMERITE
- Canada**
 Northwest Territories
 Port Radium **20:(207)**
- United States**
 California
 Darwin mines, Inyo County (grains) **15:17n**
 Colorado
 San Juan Mountains **10:359n**
- SCHMIEDERITE
- Bolivia**
 El Dragón mine, Potosí (1 mm acicular) **21:144–145p**
- SCHMITTERITE
- Mexico**
 Sonora
 Moctezuma mine **8:(390), 9:(114)**
- Zaire**
 Shinkolobwe mine **9:34, 20:284**
- SCHNEIDERHÖHNITE
- Brazil**
 Minas Gerais
 Córrego do Urucum pegmatite **17:312p,q**
 Galiléia (micro) **21:253n**
 Urucum mine, Galiléia **19:335n**
- Namibia**
 Tsumeb **8:T31, 8:T59p, 25:(218)**
- SCHODERITE
- United States**
 Nevada
 Van-Nav-Sand claim, Eureka County **16:48h**
- SCHOENFLIESITE
- United States**
 Alaska
 Brooks Mountain, Seward Peninsula **4:27h**
- SCHOEPITE
- France**
 Rabéjac quarry, Hérault (after “epi-ianthinite”) **23:433n**
- Zaire**
 Shaba **9:33**
 Shinkolobwe mine **20:284–285c,d,p**
- SCHOLZITE
- Australia**
 South Australia
 Reaphook Hill, Flinders Range: acicular to 25 cm; some coated with cryptomelane **9:21–22p; acicular to 2 cm 5:77p; radiating columnar to 1 cm 12:105, 12:106p**
- United States**
 Nevada
 Battle Mountain (near), Lander County (acicular to 1 cm) **23:425**
 South Dakota
 Tip Top mine **17:246**
- Zambia**
 Broken Hill mine (acicular) **11:347**
- SCHOONERITE
- United States**
 New Hampshire
 Palemo #1 mine (announced; minute scales, fibers) **9:253h,q**
- SCHORL
- See also Tourmaline Group*
- Australia**
 Queensland
 Mica Creek area, Mt. Isa-Cloncurry district **19:475**
 South Australia
 Karkarilla mine, Moonta mines **19:416**
 Moonta mines **19:416**
 Wallaroo mines **19:416**
 Yelta mine, Moonta mines **19:416**
 Western Australia
 Yinnietharra (15 cm crystals) **1:101**
- Brazil**
 Minas Gerais
 Conselheiro Pena (striated, to 10 cm) **21:488n**
 Galiléia (negative rhombohedral terminations, to 10 cm) **24:49n**
 Geraldo Candinho mine, near Linópolis (needles on brazilianite) **14:236**
 Jaguarauçu pegmatite (acicular, fibrous) **25:168**
 Jove Lauriano mine, near Linópolis **14:(235)**
 Malacacheta (ferridravite id as) **21:488q**
 Padre Piedaade (to 7 cm) **22:387n**
 Pedra Redonda **19:335n**
 Pedro Redondo **20:394**
 Sapucaia mine **18:365n**
 Sebastião Cristino mine, near Linópolis (club-shaped) **14:235n**
 Virgem da Lapa pegmatites (mostly anhedral) **13:25**
 Zé Pinto mine (myrmekitic intergrowth with quartz) **21:408n**
- Paraná
 Alto Benedito pegmatite (needles; crystals to 30 cm) **22:185n**
- Rio Grande do Norte
 Locality not specified (schorl-dravite, doubly terminated to 25 cm) **24:385n**
 Serra Branca (schorl-dravite, prismatic to 10 cm) **22:387n**
- Canada**
 Ontario
 Davis Hill (to 1 cm) **21:245**
 Three localities **13:85n**
- England**
 Cornwall
 Botallack district (acicular, in quartz) **24:281**
 Trolvis quarry **4:95**
- Italy**
 Tuscany
 San Piero in Campo area, Elba (cassiterite mistaken for) **16:358**
- Nepal**
 Ganesh (doubly terminated to 3 cm) **21:490n**
- Pakistan**
 Dusso and Shingus areas, Gilgit Division **16:407p, 16:410p**
 Locality not specified **20:397**
 Machara Nala, Hunza **24:(52)**
- United States**
 California
 Blue Chihuahua mine, San Diego County **8:507–508**
 Cota mine, San Diego County **8:515**
 Himalaya dike system, San Diego County **8:468–471q,p**
 Jensen quarry, Riverside County (to 7 cm) **15:286p**
 Little Three pegmatites, San Diego County: **18:(360); schorl-elbaite 20:112–118p,q,c**
- Colorado
 Golden Gate Canyon, Jefferson County (equant doubly terminated) **23:424**
 Italian Mountain area, Gunnison County **15:87n**
 Pikes Peak region **16:228n**
- Connecticut
 Gillette quarry, Middlesex County **23:28**
- Maine
 BB #7 quarry, Oxford County (100 cm crystal) **16:375n**
 Bennett quarry **25:183**
 Bowker prospect, Mt. Mica **16:384p**
 Greenlaw quarry, Oxford County **16:385n**
 Harvard quarry, Greenwood **16:385n**
 Havey and Pulsifer quarries, Androscoggin County **16:(375)**
 Locality not specified **16:382–384p,g**
 Mt. Apatite, Oxford County **16:384p**
 Mt. Mica **16:372n, 16:382–384**
 Municipal quarry, Portland (radial sprays) **16:383p**
 Non-lithium pegmatites **16:383–384**
 Noyes Hill, Greenwood (muscovite after) **16:385**
 Nubble quarry, Greenwood **16:384n**
 Numerous localities **16:383–384**
 Ohtonen quarry, Greenwood (muscovite after) **16:385n**
 Porcupine Hill quarry, Sagadahoc County (stout crystals) **16:383p**
 Ragged Jack Mountain, Hartford **16:384n**
 Wheeler mine, Gilead **16:384n**
 Whispering Pines quarry, Paris: **16:383; crystals to 8 cm 24:382n**
- Massachusetts
 Chester emery mines **9:240**
- Nevada
 Majuba Hill mine (acicular, replacing feldspar phenocrysts in rhyolite) **16:70, 16:71**
- New Mexico
 Harding mine **8:124**

GENERAL INDEX

- Pennsylvania
French Creek mine **25**:118n
- South Dakota
Tip Top mine **17**:246
-
- SCHORLOMITE**
- Brazil**
São Paulo
Jacupiranga mine (near) (masses to 3 cm)
15:269
- United States**
Arkansas
Magnet Cove, Hot Spring County (andradite-schorlomite; crystals to 7.5 cm) **24**:67
-
- SCHREIBERSITE**
- Moon**
Traces **1**:21–22
-
- SCHREYERITE**
- Kenya**
Kwale district, south of Voi (announced)
10:302h,q
-
- SCHRÖCKINGERITE**
- England**
Cornwall
Peeth lode, Geevor (efflorescences) **25**:44n
- United States**
New Mexico
Poison Canyon, McKinley County **20**:63n
-
- SCHUBNELITE**
- Gabon**
Mounana: **3**:6h,q,d,c; minute twinned crystals
6:244
- United States**
Arizona
Monument No. 2 mine, Apache County
22:381)
-
- SCHUETTEITE**
- United States**
California
Oceanic mine, San Luis Obispo County
16:55h
- Nevada
B & B mine, Esmeralda County **16**:55h
- Texas
Chisos furnace, Brewster County (synthetic material) **16**:55h
- Terlingua district (post-mining coatings)
21:230ff
-
- SCHUILINGITE-(Nd)**
- Zaire**
Kamoto mine **20**:(274), **20**:(284)
Kasompi **8**:(390)
-
- SCHULENBERGITE**
- Germany**
Niedersachsen
Glücksrad mine, Oberschulenberg, Harz
15:343h
- Rheinland-Pfalz
Friedrichsseggen mine, Ems district **15**:341–343
- Wales**
Dyfed
Llwyn Llwyd mine (coatings) **21**:492n
-
- SCHULTENITE**
- Namibia**
Tsumeb: crystals to 4 cm **8**:T31, **8**:T50, **8**:T58p, **8**:T98–99p,d,c; 17.5 cm crystal **13**:143; 23 cm doubly terminated **12**:182n; with stranskiite **10**:113
-
- SCHWARTZEMBERGITE**
- Chile**
Paposo (with gold wires) **15**:160
-
- SCOLECITE**
- Canada**
British Columbia
Yellow Lake area, near Olalla **15**:(93)
- Québec
B.C. and Beaver mines, Thetford **21**:(393)
- Denmark**
Suderoy, Færoe Islands **12**:19n
- Iceland**
Five localities (to 10 cm) **12**:19p
- India**
Bombay (crystals to 3.8 cm) **7**:253p
- Junnar, near Narayangaon (prismatic to 15 cm)
23:434n
- South Africa**
Transvaal
Palabora mine **22**:260
- Sweden**
Leveäniemi iron mine, Norrbotten **20**:(346)
- United States**
Colorado
Italian Mountain area, Gunnison County
15:84p
- Table Mountain, Jefferson County (id as cowlesite) **19**:178
-
- SCORODITE**
- Australia**
New South Wales
Kintore opencut, Broken Hill **19**:429p, **19**:432
- Old 25 pipe, Kingsgate mines (some with complex overgrowths) **16**:287–288p,c
- South Australia
Preamimma mine **12**:(107)
- Western Australia
Bali Lo prospect, Ashburton Downs (minute flakes) **24**:216
- Marda (micro) **16**:122p
- Brazil**
Bahia
Ribeira Valley (crystals to 4 mm) **6**:286n
- Minas Gerais
Córrego do Urucum pegmatite **17**:312q
- Canada**
British Columbia
Mt. Washington mine, Vancouver Island
15:89n
- Chile**
Chuquicamata **9**:330n
- Germany**
Obersachsen
Schwarzenberg **1**:84n
- Greece**
Kamaréza mine, Laurium (micro crystals) **7**:122
- Mexico**
Durango
Ojuela mine (crystals to 12 mm) **14**:386
- Namibia**
Tsumeb: **18**:245n, **18**:367n; crystals to 5 cm
8:T31, **8**:T50, **8**:T59p
- United States**
Arizona
Grandview mine, Coconino County (brown, grey mammillary masses) **2**:219, **2**:221q
- California
Kalkar quarry, Santa Cruz County **17**:324
- Colorado
Charter Oak mine, Ouray County: **10**:359n; encrustations **17**:235n
- National Belle mine, Ouray County (unconfirmed) **17**:235
- Nevada
Northumberland mine, Nye County (micro druses) **16**:41
- Majuba Hill mine (crystals to 3 mm) **16**:69p–70
-
- New Jersey
Sterling Hill mine: **13**:(37); 1 mm euhedral
10:163–164
- Utah
Central Eureka mine, Eureka **3**:37n
- Gold Hill mine (crystals to 1 mm) **24**:17
-
- SCORZALITE**
- In pegmatite environments **4**:112–113
- Numerous world occurrences **4**:118
- Austria**
Millstätter Seenrücken, Carinthia **17**:(110)
- Brazil**
Minas Gerais
Córrego Frio mine, near Linópolis (massive)
14:233
- Sapucaia area **2**:(12)
- United States**
California
Champion mine, Mono County **8**:480–482n
- New Hampshire
Palermo mine **5**:278n
-
- SCOTLAND**
- See also United Kingdom*
- Avon**
Clevedon **24**:392s
- Central**
Alva mine, near Stirling **25**:26h,s
- Dumfries and Galloway**
Belton Grain vein, Wanlockhead **12**:240m, **12**:243s
- Glencrieff mine (New Glencrieff vein and shaft), Wanlockhead **12**:236–239h,p, **12**:240m
- Leadhills-Wanlockhead district, Strathclyde-Dumfries and Galloway **12**:235–250h,m,p,g, **13**:362s
- Wanlockhead **12**:235–250h,m,p,g, **14**:23s, **25**:46s
- Grampian**
Lossimouth, Elgin **24**:392s
- Highland**
Bellsgrrove mine **21**:492h
- The Storr, Isle of Skye **20**:395s
- Whitesmith mine, Strontian **21**:492h,s
- Lanarkshire (former county)**
Craighead quarry **14**:23s
- Stirling**
Touch Hills, Stirling **20**:395s
- Strathclyde**
Bishoptown, near Paisley **4**:79
- Glengonnar mine, Leadhills **12**:240m, **12**:242s
- Leadhills **12**:235–250h,m,p,g, **15**:147s
- Leadhills-Wanlockhead district, Strathclyde-Dumfries and Galloway **12**:235–250h,m,p,g, **13**:362s
- Loanhead quarry, Beith **19**:337s, **20**:395s, **24**:392s
- Muirshiel mine, Lochwinnoch **22**:390s
- Port na Clodheig, Loch Scridain, Isle of Mull
23:434s
- Roanburn vein, Leadhills **20**:395s
- Scar Vein, Leadhills **13**:170s
- Susanna mine, Leadhills **12**:240m, **12**:243s, **12**:247s, **21**:492s
- Tayside**
Dundee (near) **25**:46s
-
- SCRUTINYITE**
- United States**
New Mexico
Sunshine #1 mine, Socorro County **20**:11, **20**:43h
-
- SEARLESITE**
- Canada**
Québec
Mt. St-Hilaire (tabular to 3 mm; fl.) **21**:334
- Poudrette quarry **21**:(486)

GENERAL INDEX

- United States**
 California
 Boron, Kern County (micro) **2:37n**
 Searles Lake (spheres, fibers, minute plates) **6:79**
 Colorado, Wyoming, Utah
 Green River formation **8:368–371**
 Nevada
 Coaldale, Esmeralda County (crystals to 2 mm) **6:79–80c,d**
 New Mexico
 Point of Rocks quarry, Colfax County: **16:150p; 2.5 cm crystals 15:154, 15:156p**
-
- SEELITE**
- France**
 Rabéjac, Hérault: micro **25:209p**; newly described; micro laths **24:463–467h,p,c,q**
- Iran**
 Talmessi, near Anarak (newly described; micro laths) **24:463–467h,p,c,q**
-
- SEGLERITE**
- Australia**
 Western Australia
 Milgun Station **9:(113)**
- United States**
 South Dakota
 Tip Top mine **8:(517), 17:246–247c,d, 17:251, 17:299–300p,c,d**
-
- SEGNITITE**
- Australia**
 Western Australia
 Coppin Pool **23:(432)**
-
- SEKANINAITE**
- Czech Republic (formerly Czechoslovakia)**
 Dolní Bory: **19:(10); announced 9:254h,q**
-
- SELENIUM**
- Toxicity of selenium minerals **11:7**
- Bolivia**
 El Dragón mine, Potosí (minute felted aggregates) **21:139p**
- United States**
 California
 Defiance mine, Inyo County **18:(148)**
 Nevada
 Green Prospect, Churchill County (crystals) **16:73**
- “SELENOLITE”
Inadequately described; prob. = olsacherite
 Toxicity **11:7**
-
- SELIGMANNITE**
- Canada**
 British Columbia
 Whiskey Creek group, west of Hazelton (felted masses) **2:206p**
- Italy**
 Tuscany
 Buca della Vena mine (bournonite-seligmannite) **17:264**
 Calagio quarries **18:274**
 Carrara region (seligmannite-bournonite; four-fold twins) **18:274–275c,d**
 Fantiscritti quarry **18:274–275p,q**
- Namibia**
 Tsumeb (minute grains) **8:T31n**
- Peru**
 Pachapaqua mine, Ancash Dept (some “bournonite” id as) **21:490**
-
- SELLAITE**
- Brazil**
 Bahia
 Brumado: **14:179–180c,p, 23:276n, 23:432n; 4.5 cm crystal 14:173, 14:175p**
 Pomba pit, Brumado (2 cm crystals) **22:387n**
-
- France**
 Fonte Sante mine, Var: massive **8:309–310; massive; acicular 14:180**
 Gebroulaz Glacier, Savoy: **11:108h; crystals 14:179–180**
- Germany**
 Erfurt
 Bleicherode **14:(179)**
- Italy**
 Campania
 Vesuvius **14:(179)**
 Sicily
 Etna **14:(179)**
 Tuscany
 Carrara region **14:(179)**
 La Piastra quarry **18:278–279c,p**
- Norway**
 Gjerdingen, Nordmarka region: **11:83; micro single and twinned 12:231–232p,d,c**
 Oslo area **14:(179)**
- Russia (formerly USSR)**
 Nertschin, Transbaikalia **14:(179)**
-
- SEMENOVITE**
- Greenland**
 Taseq slope, Ilímaussaq complex (bipyramidal to 1 cm) **24:G26p,h**
-
- SEMSEYITE**
- Bolivia**
 Oruro district (rosettes) **6:134**
- Canada**
 Ontario
 Rogers mine, near Madoc **13:(91)**
 Taylor farm, near Madoc **13:(80)**
- Czech Republic (formerly Czechoslovakia)**
 Bohutín district, Příbram ore field **12:162n**
- France**
 Les Farges mine, Corrèze **13:(267)**
 Saint-Pons (near), Haute-Provence (1 cm masses) **24:43**
- Italy**
 Tuscany
 Calagio quarries **18:278p**
- Peru**
 Herminia mine, Julcani district (micro acicular) **5:218, 5:220p**
- Romania**
 Cavnic **15:114p**
 Herja (formerly Kisbánya) **13:(374), 15:117n, 19:(35)**
- United States**
 Colorado
 Brobdingnag prospect, San Juan County **7:275n**
 Mary Ann lode, Clear Creek County **7:276n**
 Silverton district, San Juan County **10:359n**
-
- SENAITE**
- Seven world localities listed **25:133**
- Brazil**
 Minas Gerais
 Fazenda Guariba: **17:191–195p,c,q; id as Pb-bearing crichtonite 25:133–135p,q**
- Canada**
 Québec
 Mt. St-Hilaire: crystals to 1 mm in trillings **21:334–335; trillings 18:364n**
- Norway**
 Langesund area quarries **23:(436)**
-
- SENARMONTITE**
- Algeria**
 Djebel Hamimat, Constantine (to 1 cm) **24:233**
- Italy**
 Tuscany
 Cetine mine **15:35p**
 Pereta mine **15:24**
- Macedonia (formerly Yugoslavia)**
 Allchar (and/or arsenolite; veinlets) **24:440**
-
- United States**
 California
 Darwin Antimony mine, Inyo County **15:(17)**
 Stayton mine, Stayton district **20:434**
 Yellow Jacket mine, Stayton Mining district **20:434**
 Nevada
 Dee mine, Elko County **19:332n**
 Green Prospect, Churchill County (after stibnite) **16:73**
-
- SENEGAL**
- Faleme **21:491s**
-
- SENEGALITE**
- Senegal**
 Faleme (crystals to 25 cm) **21:491n**
-
- SENGIERITE**
- United States**
 Arizona
 Cole shaft, Bisbee district **12:311**
- Zaire**
 Luiswishi copper mine, Shaba **20:268h, 20:285d**
 Musonoi mine **20:285**
 Ruwe mine, Shaba **20:285**
-
- SEPIOLITE**
- Australia**
 Queensland
 Mt. Isa mine **19:483**
- Canada**
 Ontario
 Cardiff uranium mine, near Wilberforce (fibrous mats) **13:225**
 Québec
 Mt. St-Hilaire (fibrous to 5 mm) **21:335**
- Norway**
 Kongsberg **17:(35)**
- United States**
 Arizona
 Cole shaft, Bisbee district **12:311**
 Southwest mine, Bisbee district (popcorn-like) **12:311**
 California
 Kalkar quarry, Santa Cruz County **17:325n**
-
- SERANDITE**
- Canada**
 Québec
 DeMix quarry: **6:250p, 18:363n; birnessite after, 13 cm 9:94p**
 DeSourdy quarry, Mt. St-Hilaire **20:236**
 Mt. St-Hilaire: **10:105p, 10:108; 13:246; birnessite after euhedral 21:299, 21:300p; elpidite after 21:306–307p; euhedral to 20 cm, many twinned 21:335–338pd,d,c; large groups 13:39p**
 Poudrette quarry: **19:334n, 20:388p, 20:393; some twinned 18:363n**
- Russia (formerly USSR)**
 Lovozero massif, Kola Peninsula **22:(393)**
- South Africa**
 Cape Province
 Wessels mine (green, in thin section) **22:292**
- United States**
 California
 Benitoite Gem mine (silica after micro crystals) **8:450**
 New Mexico
 Point of Rocks quarry, Colfax County (mostly colorless) **15:154, 15:156p**
-
- SERBIA**
- Formerly Yugoslavia*
 Stari Trg mine, Trepča **19:44–45p,h, 19:124s**
 Trepča mine, Trepča **4:54–61g,h,p, 9:368, 9:369, 18:145–146s, 18:242s, 18:245s, 18:368s, 18:409s, 19:44–45p,h, 20:72s, 20:152s, 24:230**

GENERAL INDEX

SERENDIBITE

United States

New York
Johnsburg **18**:(361), **20**:391

“SERICITE”

See Muscovite

SERPENTINE GROUP

Part of the kaolinite-serpentine group

Brazil

São Paulo
Jacupiranga mine (after forsterite) **15**:266

Italy

Lombardy
Baveno area (masses) **14**:165

United States

California
Jensen quarry, Riverside County **15**:289n
Colorado
Italian Mountain area, Gunnison County **15**:87n
Pennsylvania/Maryland
Line Pit and Wood’s mine (emerald-green antigorite var. “williamsite”) **12**:149, **12**:150, **12**:153–154q

SERPIERITE

Australia

New South Wales
Kintore open-cut, Broken Hill **19**:432p, **19**:433q

England

Stafford
Ecton Hill (micro blades) **14**:22–23p

Germany

Rheinland-Pfalz
Ems district **15**:343
Friedrichslegen mine **15**:341p

Greece

Kamaréza mine, Laurium (micro crystals) **7**:123n
Laurium **13**:170q

Namibia

Tsumeb **8**:T31n

New Zealand

Tui mine (crystals) **6**:30n

United States

California
Lucky Lucy prospect, Inyo County **15**:17n
Colorado
Murry mine, Clear Creek County (micro crystals) **11**:38

Wales

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

Zaire

Prince Leopold mine, Shaba (formerly Katanga) (crystalline mass) **7**:133n

SHABAITE-(Nd)

Zaire

Kamoto mine (shabaite-(Nd)) **20**:(274), **20**:284
Shaba (formerly Katanga) **20**:(398)

SHAFRANOVSKITE

Russia (formerly USSR)

Khibiny Massif, Kola Peninsula **23**:(433)

SHANDITE

Australia

Tasmania
Trial Harbor **19**:388

SHARPITE

Zaire

Shinkolobwe mine **20**:285

SHATTUCKITE

Namibia

Tsumeb (granular, fibrous) **8**:T31n

South Africa

Transvaal
Messina district (in quartz) **22**:199

United States

Arizona
New Cornelia mine, Pima County (veins; acicular) **14**:297
New Water Mountains, Yuma County **14**:(119)
Shattuck shaft, Bisbee district: after malachite **12**:311; bisbeeite after **12**:294

Zaire

Mashamba West mine (botryoids to 7 mm) **22**:20

SHCHERBINAITE

Toxicity **11**:10

El Salvador

Izalco volcano **18**:(339)

SHERWOODITE

United States

Colorado
Peanut mine, Montrose County **18**:338p

SHOMIOKITE-(Y)

Canada

Québec
Mt. St-Hilaire (shomiokite, to 2 mm) **24**:388n

SHORTITE

Canada

Québec
Mt. St-Hilaire: crystals to 2 cm **23**:427p, **23**:429n; masses, minute crystals **21**:338d

United States

Colorado, Wyoming, Utah
Green River formation **8**:368–371
Wyoming
Green River, Sweetwater County (calcite after) **21**:485n

SHOW REPORTS

Aldorf, Switzerland: 1977 **9**:132; 1978 **10**:122
Australian National Gem and Mineral Show (Gemboree) (1986) **18**:157
Bad Ems, Germany: 1987 **18**:355–357; 1989 **20**:483–485
Barcelona, Spain: 1992 **24**:236; 1993 **25**:222
Basel, Switzerland (1978) **10**:179–180
Bilbao, Spain: 1991 **23**:272; 1992 **24**:236; 1993 **25**:222
Bourg d’Oisans, France (1977) **8**:403–404
California Federation (1981) **12**:387–389
Cincinnati: 1992 **23**:437; 1994 **25**:380–381
Costa Mesa, CA: 1992 **23**:438; 1993 **24**:394–395; 1994 **25**:381–382
Deidesheim, Germany (1989) **20**:483–485
Denver: 1983 **15**:43; 1986 **18**:147–148; 1987 **19**:113–117; 1988 **20**:69–70; 1989 **21**:96–98; 1992 **24**:45–53; 1993 **25**:59–63
Detroit: 1976 **8**:58–60; 1977 **9**:36–38, **9**:103; 1978 **10**:31–33; 1979 **11**:59–61; 1980 **12**:45–47; 1982 **14**:53; 1983 **15**:43–46; 1985 **17**:147; 1987 **19**:117
Frankfurt (1986) **18**:159–160
Franklin, NJ (1987) **19**:273–275
Geneva (1977) **9**:133–134
Geo-Venture ’73 (Ottawa, Ontario) **4**:237
Hamburg (1987) **19**:271–272
Heidelberg (1986) **18**:159–160
Houston: 1985 **16**:499–500; 1987 **19**:117
Kopparberg, Sweden (1990) **22**:46–48
Liège, Belgium (1988) **20**:299
Lyon, France (1989) **21**:249–251

Munich: 1977 **9**:134; 1978 **10**:123–124; 1979 **11**:322–323; 1983 **15**:117–120, **15**:131–139; 1985 **17**:147–150; 1986 **18**:160–163; 1987 **19**:121–124; 1988 **20**:71–75; 1989 **21**:173–175; 1990 **22**:221ff; 1991 **23**:84–85; 1992 **24**:231–235; 1993 **25**:137–141

Nancy, France (1977) **9**:56–57
Northwest Symposium (1980) **12**:117
Nuremberg (Nürnberg): 1987 **19**:124; 1988 **20**:146–147

Paris: 1991 **23**:267–272; 1993 **25**:46–47
Pasadena, CA: 1978 **10**:34–35; 1979 **11**:121–124; 1987 **19**:120; 1992 **24**:219

Prague: 1989 **21**:175–176; 1992 **24**:236

Quarryville, PA (1986) **18**:433–434
Rochester Mineralogical Symposium: 1976 program **6**:291; 1976 **7**:185–187; 1977 **8**:284; 1981 **12**:390; 1986 **17**:339–342; 1987 **18**:359–368; 1988 **19**:331–338; 1989 **20**:387–399; 1990 **21**:481–492, **21**:501; 1991 **22**:381–393; 1992 **23**:423–437; 1993 **24**:381–394; 1994 **25**:377–380

Sainte-Marie-aux-Mines, France: 1979 **11**:27–29; 1986 **17**:389–392; 1988 **20**:145–146; 1989 **20**:483–485; 1992 **23**:494–498; 1993 **25**:47, **25**:50

San Diego (1984) **15**:313
Springfield, MA: 1989 **20**:481; 1992 **23**:499–500; 1993 **25**:57–58

Tišnov, Czech Republic (1991) **22**:457

Tokyo (1989) **21**:260

Torino (Turin): 1979 **11**:322–323; 1992 **24**:235–236

Tucson: 1971 **2**:53; 1972 **3**:65–66; 1974 **5**:76–78, 1974, first joint symposium **5**:127; 1975 **6**:141–143, **6**:162–164; 1976 **7**:129–137; 1977 **8**:64–65, **8**:82–84; 1977 **9**:192–195; 1978 **10**:130, **10**:183, **10**:187–190; 1980 **11**:189–193; 1981 **12**:177–186; 1982 **13**:181–184; 1983 **14**:173–176; 1984 **15**:177–182; 1985 **16**:154, **16**:303–313; 1986 **17**:207–212; 1987 **18**:241–246; 1988 **19**:209–215; 1989 **20**:234–237; 1990 **21**:253–260; 1991 **22**:213–220; 1992 **23**:273–281; 1993 **24**:219–230, **24**:237; 1994 **25**:211–221

Washington, DC: 1976 **7**:187; 1977 **8**:389; 1982 **13**:315

Zürich: 1974 **6**:141; 1975 **7**:139–140; 1978 **10**:123–124

SHOWS AND CONTESTS

See also Awards and Trophies; Competitive Exhibits

Eastern European shows (1981) including Tišnov, Czech Republic **12**:189

Great Western Fair (Pomona, CA) (guns and knives) **15**:2

Mineral shows—are they worth the effort? (editorial) **3**:194–195

Munich Show **15**:131–139

Organizing exhibits primarily by size of specimen (letter) **22**:156

Paris Exposition, 1900: **22**:71–72; contemporary accounts; dispositions of specimens **21**:63–82; Pre-show selling: editorial **3**:146–147, **4**:93–94, **4**:152; letters **3**:282

Smoking at European shows (editorial comment) **17**:150

Switzerland **6**:207–208

Tokyo (1988) (announcement) **19**:138

Tucson Experience, The: World’s Largest Gem and Mineral Shows. (videotape) 1992 **23**:503b

Tucson show catalog to be published by Mineralogical Record **18**:322

Tucson shows **6**:162–164

What makes a great show **18**:171

GENERAL INDEX

SHUIKITE

Russia (formerly USSR)

Saranovskaya, Ural Mountains (8 mm crystals)
23:433n

SICKLERITE

See also Ferrisicklerite

Vs. ferrisicklerite **6:201**

United States

Colorado

Crystal Mountain, Larimer County (sicklerite/
ferrisicklerite) **19:332n**

Krystal Crown, Purple Haze, and Rainbows
End claims, Larimer County **22:382n**

Maine

Newry area **6:201**

SIDERITE

Australia

New South Wales

Broken Hill **7:30, 19:424n**

Prospect quarry (micro iridescent) **25:194**

Queensland

Mt. Isa mine **19:483**

South Australia

Wallaroo mines **19:(412)**

Victoria

Narre Warren quarry, Berwick: ball, mag-
netic **17:138p**; botryoidal, "sphaerosiderite"
12:108, 12:109p; micro "basketweave"
18:435–436p

Western Australia

Anticline prospect, Ashburton Downs (crys-
tals to 5 mm) **24:216**

Bolivia

El Dragón mine, Potosí (minute rhombs) **21:14n**
Mosojlacta (rhombs to 15 cm; some goethite
after) **4:279, 4:280p**

Brazil

Espirito Santo

Fundão City (rhombs to 3.5 cm) **25:60**

Minas Gerais

Énio pegmatite, near Galiléia (needles, acute
scalenohedral) **12:72**

Galiléia (near) (micro crystals) **9:41**

Governador Valadares (near) (in alpine cleft)
22:387n

Morro Velho gold mine (discoïdal to 5 cm)
4:228p

Pedreira Atalaia, Pico do Ibituruna (rhombs
to 9 cm) **22:217n**

Canada

British Columbia

Bluebell mine, Riondel (spheres to 3 mm)
8:35

Monte Creek, Kamloops district (hemispheres
with aragonite) **19:333n**

New Brunswick

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

Québec

Henderson No. 2 mine, near Chibougamau
(micro rhombs) **14:155**

Mt. St-Hilaire: crystals to 25 cm; various
habits **21:338p**; flattened twins **14:364c**;
40 cm rhombs **13:244**

Poudrette quarry **20:393**

Yukon

Rapid Creek/Big Fish River area: **15:(45)**;
various habits; large crystals **23:Y30–**
32p,d,c

Czech Republic (formerly Czechoslovakia)

Třebsko deposit (T-1 vein) (rhombs to 1 cm)
22:211

England

Cornwall

Botallack district: bow-ties, goethite after
24:280; formerly "chalybite" **24:281**

Locality not specified (pseudo-octahedral)
17:138

Derby

Derbyshire orefield **14:20n**

Devon

Virtuous Lady mine (cubic shells to 10 cm)
4:80

Durham

Boltsburn mine, Weardale **13:15p**

France

Allevard, Isère **9:182p**

Saint-Pons (near), Haute-Provence (small brown
rhombs) **24:43–44p**

Germany

Obersachsen

Freiberg district **17:(18)**

Greece

Kamaréza mine, Laurium (platy granular) **7:124**

Italy

Tuscany

Buca della Vena mine **17:266n**

Castelnuovo mine, Upper Valdarno (micro
crystals) **25:298**

Cetine mine **15:32**

Malawi

Mt. Malosa region (rhombs, goethite after)
25:34

Morocco

Mefis mine, Erfud **20:(396)**

Namibia

Tsumeb (micro scalenohedral; some zincian)
8:T31, 8:T75p, 8:T85p

New Zealand

Tui mine (green crystals to 13 mm) **6:27**

Peru

Julcani district (siderite-calcite; thick, layered
coatings) **5:219, 5:221p**

Portugal

Panasqueira mine (discoïdal to 9 cm) **2:76p**

Romania

Herja (formerly Kisbánya) **13:(374)**

Spain

Hiendelaencina district, Guadalajara (lenticu-
lar; rhombs to 2 cm) **23:248**

San Sebastian, Guipuzcoa **20:145**

Troya mine, Guipuzcoa **23:272n**

United States

Arizona

Czar shaft, Bisbee district (boxwork) **12:311**
Gardner shaft, Bisbee district (after pyrite)
12:311

Hoatson shaft, Bisbee district (5 mm trans-
parent) **12:311**

Junction shaft, Bisbee district: **24:45n**; large
iridescent stalactites, botryoids, some en-
closing euhedral pyrite **12:311**

Magma mine (botryoidal; rhombs to 1 cm)
14:78

New Cornelia mine, Pima County (botryoidal)
14:297

Vekol mine, Pinal County (id as ferroan
dolomite) **14:91p,q**

California

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

Custer mine, Inyo County **15:(17)**

Colorado

Alice Glory Hole, Clear Creek County **18:186**
Black Cloud mine, Leadville district **20:388**

Crystal Peak area, Park/Teller counties (hem-
atite after) **16:(223)**

Harris Park, Park County (hematite after)
16:(223)

Italian Mountain area, Gunnison County
15:87n

Julia-Fisk mine, Leadville district: mangan-
oan, flattened rhombs **16:191**; 6 mm crys-
tals **7:289n, 7:293p**

Leadville district (some manganoean) **16:195–**
196c

Ourray County **10:359n**

Pikes Peak batholith: hematite after **16:223–**
224, 16:225p; hematite after, to 5 cm
10:376

Tucson mine, Leadville district (flattened
rhombs) **16:181n, 16:196p**

White Raven mine, Boulder County (scalenohed-
ral) **7:279**

Idaho

Sawtooth batholith (goethite after discoïdal
to 7 cm) **24:197**

Maine

Bell Pit: micro scalenohedral **1:114**; steep
scalenohedral to 3 cm **6:202**

Mt. Mica **16:372n**

Ridge #1 prospect, Oxford County (complex
1 cm crystal) **24:383n**

Maryland

Frostburg, Allegany County (complex micro)
22:61n

Minnesota

Huntington mine, Crow Wing County **19:199n,**
19:200p

New Hampshire

Bald Mountain Ridge, Carroll County **23:425**
Carroll County **20:391**

Rainbow Pocket, Coos County **18:429n**

New York

Sterling mine, Jefferson County: epitaxial on
dolomite **15:204**; to 1 cm **15:207–208c,q,p,**
15:212p, 15:214

New Mexico

Germany mines, Socorro County **20:21**
Graphic-Waldo mine, Socorro County
(manganoean?) **20:21**

Hansburg district, Socorro County (id as
goethite in calcite) **20:36**

Kelly mine, Socorro County **20:21**

North Carolina

Boiling Springs (east of), Cleveland County
(limonite after) **1:119**

Foote mine (spheres) **18:133**

Oregon

Oregon City, Clackamas County (magnetic;
odd morphology) **17:138p**

Pennsylvania

French Creek mine **25:(119)**

South Dakota

Double Rainbow mine, Lawrence County
(crystals to 4 cm) **1:124**

Washington

Pullman (east of), Whitman County (3 locali-
ties) (balls, cleavable or radial; bow-ties)
5:157–159p

Wisconsin

Rib Mountain, Marathon County (iron ox-
ides after rhombs to 10 cm) **12:96**

SIDERONATRITE

Chile

Chuquicamata **9:329**

Italy

Tuscany

Cetine mine **15:32p**

SIDEROPHYLLITE

Canada

Québec

Mt. St-Hilaire (masses, prismatic) **21:338**

Poudrette quarry **20:393**

Italy

Lombardy

Baveno area (crystals to 5 cm) **14:165**

GENERAL INDEX

SIDEROTIL

United States

- Arizona
 - Campbell shaft, Bisbee district (cuprian) **12:311**
 - Junction shaft, Bisbee district (crystal-terminated stalactites) **12:311**

SIDORENKITE

Canada

- Québec
 - Mt. St-Hilaire (minute grains; "woody-textured" crystals) **21:338**
 - Poudrette quarry **20:393**

SIDWILLITE

United States

- Colorado
 - Lake Como, San Juan County **18:(360)**

SIEGENITE

Vs. linnaeite **4:137**

Australia

- Western Australia
 - Kalgoorlie district (grains) **15:(38)**

Canada

- Ontario
 - Langis mine, Cobalt-Gowganda district **15:(39)**

China

- Szechuan **15:(39)**

Germany

- Bavaria
 - Münchsberg massif **15:(38)**

Norway

- Raipas district, Finnmark **15:(38)**

Poland

- Lower Silesia **15:(38)**

South Africa

- Transvaal
 - Messina district **15:(38)**

Sweden

- Brestovskog **15:38n**

Switzerland

- Alp-Taspegn, Graubünden **15:38n**

United States

- Missouri
 - Buick mine, Reynolds County: **15:37–39c,p,d**; crystals to 4 mm **22:216**
 - Fredericktown district, Madison County (nickel-rich) **15:39n**
 - LaMotte mine, Vibernum Trend: crystals **15:250**; grains **15:37**
 - Miliken mine, Vibernum Trend **22:383s**
 - St. Joe mine, Saint Francois County (crystals) **15:250**
 - Sweetwater mine, Reynolds County (acicular to 12 mm) **9:112**
 - West Fork mine, Vibernum Trend **22:383s**

Wales

- Midglamorgan
 - Gelli colliery, Llantrisant (octahedral to 3 mm) **21:492n**

Zaire

- Shinkolobwe district: **20:276**; selenian **15:(38)**

SIELECKIITE

Australia

- Queensland
 - Mt. Oxide mine **19:486, 24:49n**

"SILBERKIES"

- Prob. = argentopyrite and/or sternbergite **5:4**

SILINAITE

Canada

- Québec
 - Poudrette quarry (formerly UK #81) **22:386n**

SILLIMINITE

Sri Lanka

- Embilipidya (gemmy, terminated) **17:341n**
- Locality not specified **25:57n**
- Rakwana-Deniyaya (gemmy prismatic to 1.8 cm) **24:229p, 24:230**
- Ratnapura (gem quality) **19:338n**

SILVER

- Auriferous, vs. electrum; "küstelite" **13:398**
- In antiquity **17:4–5h**
- 1994 Tucson show theme: exhibits **25:219–221p**; symposium abstracts **25:69–76**
- Smelted by forest fire **17:4–5h**
- Special issue **17:#1**
- Theme of 1992 Denver Show **24:45**

Australia

- New South Wales
 - Broken Hill: **12:110n, 19:424n**; "Turtle" nugget **19:420**; wire **7:29**
 - Eleura (Alura) mine, Cobar: **20:236**; arborescent **18:365n**
 - Kintore opencut, Broken Hill **19:(428)**
- Northern Territory
 - Mt. Bonnie mine **19:444**
- Queensland
 - Mt. Isa mine **19:483**
 - O'Brien's Soak **19:(474)**
 - Silver Phantom deposit **19:(474)**
- Tasmania
 - Magnet mine **19:(383)**
- Western Australia
 - Ashburton Downs (mercurian; porous black) **24:216**

Bolivia

- Oruro (2 localities) **6:132**

Brazil

- Ribeira Valley (small dendritic) **6:287n**

Canada

- British Columbia
 - Highland Bell mine, Beaverdell **20:441–446p,c**
- Northwest Territories
 - Contact Lake mine **20:204**
 - Echo Bay mine **20:204–205p**
 - El Bonanza mine: **20:204–206p**; reticulated cubic **12:183n**
 - Eldorado mine **20:204**
 - Narsuk **19:334n**
 - Port Radium **20:204–207**

Ontario

- Keeley mine, near Cobalt Lake (wires) **13:109p**
 - Silver Islet mine (heavy wires) **17:54–55p**
 - Silversides mine, Cobalt (leaf) **18:363n**
- Yukon
- Lucky Queen mine, near Kino Hill (crystal-line, in ice) **22:386n**

Chile

- Chañarcillo: arborescent, wires **10:200–201p**; 2700kg mass **10:198**

Czech Republic (formerly Czechoslovakia)

- Kuber Schacht (with and/or after dyscrasite) **19:335–336**
- Přibram (wire) **18:159**
- St. Joachimstal (Jáchymov) **17:15–16h,c**
- Třebosko deposit (T-1 vein) (wires to 3 cm; inclusions in arsenides) **22:210–211p,q**

England

- Cornwall
 - Botallack district **24:(281)**
- Derby
 - Ible, near Matlock **14:(16)**

France

- Rabéjac quarry, Hérault (minute leaves) **23:433n**
- St. Marie-aux-Mines area, Haute-Rhin **17:6n, 17:276h**

Germany

Baden-Württemberg

- Anton mine, Wieden (fine wires) **17:6p**
- Gottesehre mine, St. Blasien **17:(6)**
- Reinerzau, Wittichen district: **17:6**; arborescent **17:9p**
- Sophia mine, Wittichen district: **17:6**; arborescent **17:6p**
- Tannenboden mine, Wieden **17:(6)**

Halle

- Mansfeld Kupferschiefer **17:10**

Niedersachsen

- Jakobsgrück mine St. Andreasberg ("silver sand": tiny wires and crystals, some after pyrrargyrite) **17:9**
- St. Andreasberg (all forms) **17:8–10p, 17:12p**

Nordrhein-Westfalen

- Gonderbach, Fischelbach (wires and hairs) **17:7, 17:9p**

Obersachsen

- Annaberg **17:16p**
- Bergkappe mine, Schneeberg (wires, "Silver Cross") **17:14p**
- Freiberg district **17:16p–18, 18:161n**
- Himmelsfürst mine, Freiberg district (wires, 15–30 cm "spikes") **17:18n**
- Johanngeorgenstadt (wires in jasper nodules, "silver agates") **17:14**
- Mittagssonne mine, Freiberg district (wires) **17:18n**
- Pöhla mine (arborescent, in native arsenic) **23:84n**
- Priester mine, Schneeberg (arborescent) **17:14n**

- Reicher Bergsegen mine, Freiberg district (15–30 cm "spikes") **17:18n**

- St. Georg mine, Schneeberg ("Silver Table") **17:11p, 19:18–19, 25:H16–17p**

- Sauschwart mine, Schneeberg (large cubes, octahedrons; silver after argentite, proustite) **17:14n**

- Schneeberg **17:11–14p**

- Schneeberg/Niederschlema (wires and arborescent) **17:12p**

- Vereinigtes Feld, Freiberg district (heavy wires) **18:163p**

- Weisser Hirsch mine, Schneeberg (40 cm crystals) **17:14n**

- Wolfgang Maassen mine, Schneeberg (octahedral crystals) **17:14n**

Rheinland-Pfalz

- Angelika mine, Nieder-Beerbach **17:9p**
- Friedrichssegen mine, Ems district (wires, "mossy" aggregates) **15:343**

Kazakhstan (formerly USSR)

- Dzhezkazgan: **22:393n,p**; 15 cm specimen **25:217p**; matted wires **23:268**; wires **22:216n**

- Rudnuï (wires) **24:233–234**

Mexico

Chihuahua

- Batopilas district **17:65–79p,c,d**
- Caballo mine, Batopilas district (wires in calcite) **17:75**

- New Nevada (Nevada Valenciana) mine, Batopilas district: arborescent **7:59p**; "Astro-turf" habit **17:208n**; herringbone **17:65p**; herringbone groups to 8.4 cm **12:178–179p, 12:181n**; twisted micro crystals **10:43**

- San Antonio mine, Batopilas district **17:76p**

Guerrero

- Taxco: **18:155n**; coating pyrite on quartz **19:210, 19:213p**; coating quartz **20:145**; fake **20:404**

GENERAL INDEX

- Sonora
Aconci (micro wires, crystals on cerussite) **15:113p**
Unknown locality **20:322**
- Morocco**
Imiter, Dades region (mercurian) **20:69, 20:396**
Sidi Ayad mine, Mibladen **20:145**
- Namibia**
Tsumeb: **8:T31–32, 9:44p, 9:45**; cuprian adamite with **24:233n**
- Norway**
Kongsberg: **19:340b**; all forms **17:27–33c,d,p,q**; calcite on wire **18:409n**; “electrum” **13:359n**; heavy wire mass **17:25p**; Kongsberg museum display **22:46**; wires protruding from proustite **17:30, 17:34p**
- Peru**
San Genaro mine, Huancavelica **20:300**
Uchucchaqua mine, Lima Dept (wires) **22:217n, 24:393n**
- Scotland**
Central County
Alva mine, near Stirling (dendritic) **25:45p, 25:46h**
- Spain**
Hiendelaencina district, Guadalajara (wires, sheets) **23:247p, 23:248**
Horcajo mines, Ciudad Real (micro wires, scales) **25:26–27**
- Sweden**
Garpenberg (coating rhodonite, diopside in massive galena) **22:48**
- United States**
- Arizona
Campbell shaft, Bisbee district (on copper) **12:303, 12:311**
Cole shaft, Bisbee district (on chalcocite) **12:311**
Copper Queen mine, Bisbee district (on copper) **12:303**
Czar shaft, Bisbee district: large thin pieces **12:311**; 20 cm “cuplike mass” **24:433**
Grand Reef mine, Graham County (wires, sheets) **11:223**
Holbrook shaft, Bisbee district (1 cm flakes) **12:311**
Junction shaft, Bisbee district (on chalcocite) **12:311**
Lavender pit (Holbrook extension), Bisbee district **12:311**
Lost mines **14:269–281**
Magma mine (veinlets) **14:75**
Mammoth mine, Pinal County (micro wires, dodecahedral crystals) **11:170**
New Cornelia mine, Pima County (disseminated) **14:297**
Ray mine **14:320**
Stonewall Jackson mine, Gila County (heringbone aggregate) **14:(327p)**
- California
Monitor-Mogul district, Alpine County **22:(39)**
Thompson mine, Inyo County **15:(17)**
- Colorado
Aspen, Pitkin County (drill core of solid and wire silver) **16:(241p)**
Atlantic Cable mine, Rico district (crystalline) **16:(212)**
Aztec mine, Dolores County (crystalline) **16:(212)**
Bandora mine, San Juan County **19:245–246**
Blackjack mine, Boulder County (wire) **7:279**
Bulldog mine, Mineral County: wire **10:330**; wires **7:294p, 7:297**
Caribou mine, Boulder County (wires terminated with crystals) **7:280**
Cashin mine, Montrose County (some with copper) **7:307n**
Colonel Sellers mine (wires) **16:196**
Coronado mine, Leadville district (platy) **16:196n,p**
Cross mine, Caribou (wire) **10:331–332**
Eagle mine, Saguache County (wires) **2:107n**
Enterprise mine, Rico district: **7:306n**; crystalline **16:212n, 16:214p**
First National mine, Leadville district (wires) **16:(197)**
Maid of Erin mine, Leadville district (wires, leaves) **16:196**
Matchless mine, Leadville district: wires **2:107**; wires with rhodochrosite **7:288**; wire, with rhodochrosite **16:187n**
Molly Gibson mine, Pitkin County (wire) **7:291n, 7:294p**
Pelican-Bismark and Seven-thirty veins, Clear Creek County (wires) **7:283n**
Puzzle mine, Rico district **16:(212)**
Rico Argentine mine, Rico district (wires) **16:212n**
Rico Aspen mine, Rico district **16:(212)**
Rico district, Dolores County **16:212**
Sherman tunnel, Leadville district: **16:(191)**; crystalline, wire **10:330n**
Silverton district, San Juan County **10:359n**
Smuggler mine, Pitkin County (massive) **7:291n, 7:294p**
Star mine, Gunnison County **15:87n**
White Raven mine, Boulder County (wire) **7:279**
- Idaho
Bunker Hill mine (masses, bright wires) **12:346–347**
Caledonia mine, Shoshone County: **13:(282)**; flat wires, plated copper wires **12:346**
- Michigan
Adventure mine, Ontonagon County (crystals) **17:44n**
Baltic mine, Houghton County (crystals on copper) **17:42p**
Caledonia mine, Ontonagon County **18:(360)**
Calumet & Hecla mine, Houghton County (“halfbreed”) **17:42p**
Cliff mine, Keweenaw County (branching crystals on copper) **17:42p, 17:44**
Copper Falls mine (near), Keweenaw County: skeletal cubes **17:44–45p**; skeletal cubic **23:M32, 23:M49p**
Crystalline silver, table of 23 localities **17:48**
Eagle River area, Keweenaw County (large cubic and herringbone groups) **12:46**
Kearsage mine, Houghton County (crystals) **17:42p, 17:45, 17:46p**
Keweenaw Peninsula (numerous localities): crystallography, with 45 illustrations **23:M42–50p,d,c, 23:M64p, 23:M68**; micro **14:220**
Lake Superior mine, Houghton County (poss. epitaxial on copper) **17:43p**
Lake Superior, off Eagle Harbor (huge crystalline masses) **14:173**
Locality not specified **17:42–47p,c**
Marquette County **17:(121)**
Mass mine, Ontonagon County (microcrystals) **17:44n**
Minnesota mine, Ontonagon County (branching crystals) **17:43p**
Osceola mine, Houghton County: **17:46p**; 1 mm spinel twin **14:222p**
Osceola #10 shaft, Houghton County (micro wires, crystals) **9:314**
Pewabic (Quincy #6) mine, Houghton County (on prehnite) **17:43p, 17:45**
- South Kearsage mine, Houghton County (crystals on copper) **17:43p**
White Pine mine, Ontonagon County: **22:383n**; dendritic with calcite crystals **23:280**
Wolverine mine, Houghton County: copper on **17:46p**; crystals **17:45–47p**
- Montana
Black Pine mine, Granite County (thin sheets) **23:482**
- Nevada
Majuba Hill mine (sheet) **16:70**
- New Jersey
Chimney Rock quarry, Somerset County (thin wires) **9:28**
Planten Avenue quarry, Passaic County (wires) **17:407–408p**
Prospect Park quarry, Passaic County (wires) **9:172–173, 9:176p**
Sterling mine (minute sheets) **25:100**
- New Mexico
Alhambra mine, Grant County **20:58–59**
Anchor mine, Socorro County **20:21**
Black Cloud mine, Socorro County **20:21**
Juanita mine, Socorro County **20:21**
Kelly mine, Socorro County **20:21**
- Oklahoma
Wolf Ridge mine, Garvin County **17:374n**
- Pennsylvania
Phoenixville **20:382**
Wheatley mine **20:382**
- South Dakota
Double Rainbow mine, Lawrence County (micro wires) **1:124n**
- Utah
Gold Hill mine (thin sheets) **24:21**
-
- SIMONITE**
- Macedonia (formerly Yugoslavia)**
Allchar **24:444, 24:446q**; grains **24:236n**
-
- SINHALITE**
- Canada**
Ontario
S. Baptiste Lake Road, near Bancroft: **13:80n**; masses to 2 mm **13:226**
- United States**
New York
Johnsburg **18:(361)**
-
- SINKANKASITE**
- United States**
South Dakota
Barker mine, Pennington County **15:258n,h, 17:300p**
-
- SJÖGRENITE**
- United States**
New Jersey
Sterling Hill mine (micro, epitaxial on pyroaurite) **12:371–372p,q**
-
- SKLODOWSKITE**
- Zaire**
Shinkolobwe mine **20:285**
-
- SKUTTERUDITE**
- Australia**
South Australia
Walleroo mines **19:416**
- Canada**
British Columbia
Rocher Déboulé mine, near Hazelton (“small-tite-chloanthite”) **15:(91)**
- Northwest Territories
Port Radium **20:(207)**
- Ontario
Cobalt Lake (near) (micro) **13:110n**
Silver Islet mine **17:(59)**

- Czech Republic (formerly Czechoslovakia)**
 Jáchymov (St. Joachimsthal) **17**:(15)
- England**
 Cornwall
 Botallack district (unconfirmed; poss. cobaltite) **24**:281
- Germany**
 Obersachsen
 Schneeberg **17**:(13)
 Rheinland-Pfalz
 Angelika mine, Nieder-Beerbach **17**:(7)
- Morocco**
 Ait Ahmane **18**:(161)
 Bou Azzer (near): **10**:33p; altered, with erythrite **13**:315; crystals to 9 cm **9**:70–71p
 Bou Azzer (sharp crystals over 2.5 cm) **11**:318
- Norway**
 Kongsberg **17**:(35)
- United States**
 Michigan
 Mohawk mine, Keweenaw County (“smaltite”) **23**:M68
- SLAG MINERALS**

See also Post-mining Minerals
 International Association of Collectors of Slag Minerals formed **21**:510
 Laurium, Greece: **7**:114–125; boleite, pseudo-boleite, cumengite **4**:262–263
 Various localities **6**:311
 Wood copper mine, AL **9**:391
- SLAVIKITE**

France
 Le Kaymar, Aveyron **8**:(391)
 “SLAVYANSKITE”

See Tunisite
- SLOVAKIA**

Formerly Czechoslovakia
 Bakabanya **21**:91h,s
 Banská Štavnica (Selmečzbánya) (formerly Schemnitz) **12**:459, **13**:371s, **17**:5h, **19**:7–9h, **19**:30s, **21**:93–95h,s, **22**:459s
 Dubník **19**:26h
 Kremnica (formerly Kremnitz) **13**:371s, **17**:5h, **19**:7h, **19**:9s, **21**:91–92h,s
 Kremnitz (see Kremnica)
 Libethen (see Lubietova)
 Lubietova (formerly Libethen) **20**:394s
 Nizna Slana **19**:9s
 Pezinok **17**:340s, **19**:122s
 Podrečany **17**:209s, **20**:299s, **24**:234s
 Schemnitz (see Banská Štavnica)
 Selmečzbánya (see Banská Štavnica)
- SLOVENIA**

Formerly Yugoslavia
 Bošnjakovo mine, Mežica district **22**:98–99h
 Čemernikovo mine, Mežica district **22**:98–99h
 Črna (formerly Schwarzenbach, Austria) **3**:148s, **3**:183h
 Dravograd (formerly Dobrava), near river Drau (formerly Drava) **16**:336h
 Idria mine, Mt. Avala: **22**:201–208h,m,p,g; closing **9**:368h
 Idrija (see Idria)
 Igrce mine, Mežica district **22**:98–99h
 Juncarjevo mine, Mežica district **22**:98–99h
 Matozovo mine, Mežica district **22**:98–99h
 Mežica mine, between Mežica (formerly Mies) and Črna **9**:368–369, **22**:97–104h,m,g,p
 Mies (now Mežica, Mezice) **4**:198h; see also Czech Republic—Stribo
 Mučevno mine, Mežica district **22**:98–99h
 Osterčnjakovo mine, Mežica district **22**:98–99h
 Peca mine, Mežica district **22**:98–99h
 Stephanie mine, Mies **3**:148s
- “SMALTITE”

See Skutterudite
- SMECTITE GROUP**

See also names of individual species
- United States**
 California
 New Melones Lake spillway, Calaveras County (massive, prob. montmorillonite) **13**:299
 Colorado
 Table Mountain, Jefferson County **19**:173q
- SMITHSONITE**

 “Rice-grain” habit **4**:42
- Australia**
 New South Wales
 Broken Hill: **19**:424n; bow-tie habit, 8 mm, also euhedral **12**:110p; crystals **7**:30; white globular **24**:227n
 Kintore opencut, Broken Hill **19**:(428)
- Queensland
 Mt. Isa mine **19**:483
- South Australia
 Beltana mine: after calcite **22**:454p; yellow, orange crystals **22**:453
 Reaphook Hill, Flinders Range: hemimorphite after **12**:105n; micro “teardrops” **9**:23
- Tasmania
 Magnet mine **19**:(383)
- Austria**
 Bleiberg district (botryoidal) **17**:367
- Brazil**
 Minas Gerais
 Mina Grande quarry, near Itacarambi (micro crystals) **6**:286
 Serra do Ouro Podre, Vazante (pink massive) **6**:286n
- Canada**
 British Columbia
 Willett mine, near Lardeau **15**:92p
- England**
 Derby
 Derbyshire orefield **14**:21
- Greece**
 Laurium area (massive, stalactitic; some after calcite crystals) **7**:124
- Italy**
 Sardinia
 Sa Duchessa mine (blue botryoidal) **15**:372n
 Tuscany
 Nuccioletta mine (crystals) **10**:290–291
- Mexico**
 Chihuahua
 San Antonio mine, Santa Eulalia district (botryoidal, various colors) **14**:385p
- Morocco**
 Touissit mine: **20**:69n, **20**:396n; crystals **23**:435n; green **15**:177n
- Namibia**
 Tsumeb: after azurite **12**:45n; gemmy blue crystals, colorless to 13 cm **10**:113n; large crystals, various colors, some cadmian, cobaltian, cuprian, manganian **8**:T32, **8**:T50, **8**:T75–76p, **8**:T85p; sharp green rhombs **25**:216p
- New Zealand**
 Tui mine (colorless botryoidal; radial aggregates) **6**:28p, **6**:29–30
- Slovenia (formerly Yugoslavia)**
 Mežica mine (tuberous conglomerations) **22**:104n
- United States**
 Arizona
 Bisbee district (yellow cadmium-bearing) **12**:311
 Campbell shaft, Bisbee district (3 mm crystals) **12**:311
 Cole shaft, Bisbee district (crystals to 5 mm) **12**:311
 Copper Queen mine, Bisbee district (reniform) **12**:311
 Czar shaft, Bisbee district (boxwork) **12**:311
 Glove mine (botryoidal; some crystals) **14**:305
 Grandview mine, Coconino County (various colors, botryoidal) **2**:219, **2**:221q
 Holbrook shaft, Bisbee district (boxwork) **12**:311
 Lavender pit (Holbrook extension), Bisbee district (boxwork boulders) **12**:311
 Mammoth mine, Pinal County (balls) **11**:167p, **11**:170
 79 mine, Gila County: botryoidal; crystals to 6 mm **3**:251–252, **3**:262p, **3**:269p, **3**:272p; chrysocolla after **3**:255, **3**:270p
 Silver Bill mine, Cochise County: green botryoidal **14**:128p; micro rhombs, prisms **11**:261; 3 mm rhombs **14**:130
 Silver Hill mine, Pima County (micro crystals) **11**:261n
- Arkansas
 Capps mine, Marion County (rhombs) **24**:298
 Rush Creek district, Marion County (yellow, orange, brown; botryoidal, stalactitic, scalenohedral; some after dolomite, calcite) **24**:296–297p, **24**:298–299
- California
 Monitor-Mogul district, Alpine County **22**:(39)
 Zinc Hill mine, Inyo County: **15**:17n; botryoidal; micro crystals **6**:111
- Colorado
 Hilltop mine, Park County (white mammillary) **16**:191n
 Italian Mountain area, Gunnison County **15**:87n
 Lark mine, Ouray County **10**:359n
 Maid of Erin mine, Leadville district **16**:(182)
 Sherman tunnel, Leadville district **16**:(191)
- Idaho
 Bunker Hill mine (minute spherules) **12**:347
 Sullivan mine, Shoshone County (minute blebs) **12**:347
- Massachusetts
 Loudville mines, Hampshire County (rhombs) **6**:297
- Nevada
 Killie mine, Elko County (massive) **18**:418
- New Jersey
 Buckwheat open pit, Franklin (coatings, micro euhedral) **14**:191–192p
- New Mexico
 Carnahan mine, Santa Fe County (crystals) **20**:63
 Kelly mine, Socorro County: **20**:21–23p; “bonamite” **20**:11; on aurichalcite **19**:117n
 Lordsburg district, Hidalgo County **20**:(57)
 Magdalena district, Socorro County **20**:21–23
 Portales mine, Socorro County **20**:43
 Stephenson-Bennett mine, Dona Ana County **20**:30
 Sunshine mines, Socorro County **20**:43
- Pennsylvania
 Chester County and Wheatley mines, Phoenixville **20**:382
- Utah
 Dry Canyon, Tooele County **21**:(484)
- Zambia**
 Broken Hill mine (rhombohedral; scalenohedral) **11**:341–342p,c

GENERAL INDEX

SMOLIANINOVITE

Australia

Queensland

Mt. Cobalt mine: **23**:(432); after cobaltite **19**:489

SODALITE

Canada

British Columbia

Ice River complex (veins; blue, white, pink, green) **12**:225q

Ontario

Davis Hill (masses) **21**:245

Davis quarry ("hackmanite," fl. apricot) **13**:86n

Princess mine, near Bancroft: **13**:85–86n; veins, masses to 1.2 m **13**:198c, **13**:203

Québec

Poudrette quarry: dodecahedral to 10 cm **21**:339, **21**:340p; gemmy masses "hackmanite" with photoreversible color change **21**:339, **21**:486; pink **17**:339n

Germany

Rheinland-Pfalz

Laacher See area, Eifel district **8**:324d, **8**:325

Greenland

Grønnedal-Ika complex (deep blue massive) **24**:G47

Kangerdluarsuk Fjord (tabular to 10 cm) **24**:G23h

Norway

Sørøya Island, Finnmark **23**:435n

"SODA NITER"

See *Nitratine*

SODDYITE

Zaire

Kasolo **20**:398

Shaba (formerly Katanga) **20**:286

Shinkolobwe mine **20**:286

Swambo mine **9**:33, **20**:286p

SODIUM PHARMACOSIDERITE

Australia

Western Australia

Marda (newly described) **16**:121–123q,p,c,h

United States

Utah

Gold Hill mine (1 mm crystals) **24**:17, **24**:18p

SOFTWARE

Computer newsletter for mineral collectors proposed **14**:139

Egg, The, scientific word processor **19**:75

Mincat, mineral name and chemical formula index **19**:138, **19**:207

Mineral, database of technical mineral data **19**:291

Shape, crystal drawing program **18**:116, **18**:436, **19**:342

SÖHNGEITE

Namibia

Tsumeb: **4**:26h, **8**:(390); crystals, twinned groups to 8 mm **8**:T32, **8**:T50, **8**:T61p

SOMALIA

Locality not specified **20**:398s

SONOLITE

United States

North Carolina

Bald Knob, Alleghany County (masses to 2 cm) **12**:169–170q

SONORAITE

Mexico

Sonora

Moctezuma mine **1**:42

United States

Arizona

Little Joe shaft, Tombstone district **11**:254

Nevada

Goldfield, Esmeralda County (compact acicular; some "emmonsite" id as) **6**:37

Mohawk mine, Esmeralda County (micro crystals) **3**:83–84q,p

SORBYITE

Canada

Ontario

Madoc (near) **13**:97q, **13**:98p

Taylor farm, near Madoc **13**:(80)

SORENSENITE

Greenland

Ilímaussaq: **8**:(390); subhedral **22**:48n

Kvanebjerg area (tabular to 10 cm) **24**:G23h, **24**:G24p

SOUTH AFRICA (REPUBLIC OF)

Aggenys **20**:398s

Geological Survey museum **18**:189–193h

Gold-mining history **23**:209–228h,m,g,p

Merensky Reef, Bushveld Complex **18**:193s

Cape Province

Adams mine, Kalahari manganese field **9**:137ff, **22**:280–281m,h

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

Gloria mine, Kalahari manganese field **22**:280–281m,h

Gold occurrences, numerous minor **23**:213

Gough gold field (see Prince Albert)

Hotazel **8**:390s

Hotazel mine, near Kuruman, Kalahari manganese field **9**:137ff, **18**:193s, **22**:280–281m,h

Jan Coetzee mine **24**:39–40h,g

Kalahari manganese field: **9**:137–153h,p,m,g, **22**:279–297g,h,m; labeling recommendations **9**:152–153; see also individual mines

Kimberly **14**:365s

Knysna **23**:213h

Kuruman (near) **14**:387s

Langdon mine, Kalahari manganese field **9**:137ff, **22**:280–281m,g,h

Leinster basin, just north of the Kalahari manganese field **22**:284s, **22**:288s

Mamatwan mine, Kalahari manganese field **9**:137ff, **22**:280–281m,g

Middelplaats mine, Kalahari manganese field **22**:280–281m,h

Millwood, north of Knysna **23**:213h

Nababeep West mine **18**:193s

N'Chwaning mines, Black Rock district, near Kuruman, Kalahari manganese field: **8**:284, **9**:137ff, **11**:30s, **12**:180s, **15**:45s, **16**:148s, **18**:190s, **18**:409s, **19**:113–114s, **19**:121s, **19**:201–202s, **19**:269s, **19**:272s, **19**:338s, **20**:145s, **20**:154–155s, **23**:277s, **23**:436s, **25**:218s; see also South Africa—Cape Province—N'Chwaning #1 and #2 mines

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

N'Dorabees, Namaqualand **22**:393s

Olive Pan claim, west of Hotazel mine **9**:151s

Perth mine, Kalahari manganese field **22**:280–281m,h

Prince Albert (Gough) gold field **23**:213h

Smartt mine, Kalahari manganese field **9**:137ff, **22**:280–281m,h

South Africa mine, Hotazel, Kalahari manganese field **3**:132s

Wessels mine, Kalahari manganese field **9**:137ff, **18**:148s, **19**:201s, **20**:69s, **20**:398s, **22**:280–281m,g, **22**:393s, **22**:480s, **23**:277s, **23**:436s, **24**:52s, **24**:365–368h,s, **24**:393s

Transvaal

Artonvilla mine, Messina district **22**:189m, **22**:190–191m,g

Barberton gold fields **23**:210–211h,p, **23**:214–218h,g,m

Campbell mine, Messina district **22**:188p, **22**:189m, **22**:192–193m,g

Eersteling gold field **23**:214h,m,g

Five Shaft area (see Messina mine)

Gravelotte **18**:193s

Harper mine, Messina district **22**:189m, **22**:192m,g

Koster (near) (1970 diamond rush) **2**:2h

Messina district **15**:38s, **22**:187–199h,m,g,p

Messina mine, Messina district **17**:209s, **18**:244s, **19**:116s, **22**:189m, **22**:191–192m,g, **22**:225s, **23**:436s

Mooihoek **13**:392s

Mooinooi mine, Brits **20**:398s

Onverwacht mine, 330 level, Lydenberg district **19**:338s

Palabora open pit, Phalaborwa **14**:388s, **19**:202–203s, **19**:338s, **22**:255–262m,g, **24**:52s

Palaboro carbonatite, Loolekop **9**:113s

Phalaborwa (see Palabora mine)

Spence mine, Messina district **22**:189m, **22**:190–191m,g

Stavoren **20**:398s

Witwatersrand gold fields **23**:211–213h,m, **23**:218–225h,m,g

Zaaiplaats tin mine **18**:193s

SOUTH CAROLINA

Amethyst localities **21**:212s

Bibliography of locality literature **18**:224

Bibliography of mineralogy literature **10**:25

Due West, Abbeville County **3**:181–182h,s, **19**:337s, **21**:208

Haile mine **18**:67

Moffatsville, Anderson County **21**:208

Ridgeway gold deposit **18**:67

Tigerville, Greenville County **1**:97ff,s, **2**:26h

Union, Union County **3**:182s

SOUTH DAKOTA

Barker mine, near Keystone, Pennington County **15**:258s, **17**:297m, **17**:300s

Beecher lode, southeast of Custer, Custer County **4**:110g

Bibliography of locality literature **18**:224

Bibliography of mineralogy literature **10**:25–26

Big Chief pegmatite, near Keystone, Pennington County **4**:109g, **17**:297m, **17**:298–300s

Black Hills type localities **17**:291–302m,g

Bull Moose mine, southeast of Custer, Custer County **4**:108–110g, **4**:113s, **4**:122s, **17**:301s

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

Elkhorn mine, Custer County **4**:122s

Etta pegmatite mine, south of Keystone, Pennington County **4**:127s, **14**:197s, **17**:297m,s, **17**:383s

GENERAL INDEX

- Everly mine (see Riverton mine)
Hesnard mine, near Keystone, Pennington County **4:122s, 17:297m**
Hoover area, Butte County **18:125–130p,m,g,h**
Hot Shot mine, Custer County **4:122s**
Hugo pegmatite, near Keystone, Pennington County **4:108s, 4:125g, 17:297m,s**
King Lithia mine (King Lithia prospect, King lode, etc.), near Keystone, Pennington County **15:361–366m,h**
King Lode, Pennington County (see King Lithia mine)
Kitty #1 lode, near Custer, Custer County **3:100h**
Linwood mine, southwest of Custer, Custer County **4:122s**
Merritt mine, near Galena, Lawrence County **17:298s**
Nickel Plate mine, southeast of Keystone, Pennington County **4:111g, 17:300s**
Old Mike mine, near Custer, Custer County **17:297m, 17:298s, 17:301s**
Peerless mine, near Keystone, Pennington County **17:383s**
Pleasant Valley pegmatite, Custer County **4:108g**
Riverton pegmatite, near Keystone, Pennington County **4:112g, 17:297m, 17:298s**
Rock Ridge pegmatite, near Custer, Custer County **17:297m, 17:299s**
Roosevelt mine, Custer County **23:425s**
Ross lode, near Keystone, Pennington County **4:112g**
Sitting Bull pegmatite, near Keystone, Pennington County **4:112g, 17:298s**
Tin Mountain mine, west of Custer, Custer County **4:108g, 4:110g**
Tip Top pegmatite mine, west of Custer, Custer County **4:109g, 4:113s, 4:115–116s, 4:121–122s, 4:126s, 8:517s, 14:195–197s, 17:237–254h,g,m,p, 17:297–301s, 18:172s, 18:361s**
Victory mine, northeast of Custer, Custer County **4:111g, 4:113s, 4:131–136h,g, 17:297m, 17:298s**
White Cap pegmatite, near Keystone, Pennington County **17:299s**
White Elephant mine, north of Pringle, Custer County **4:115s, 4:116s, 4:122s, 17:297m, 17:300s, 17:342s**
- “SOUXITE”
See Cassiterite
- SOUZALITE**
Brazil
Minas Gerais
Córrego Frio mine, near Linópolis **4:114; needles 14:233**
Linópolis (near) (3 mm sprays) **21:488n**
Sapucaia area **2:(12)**
Canada
Yukon
Rapid Creek and Big Fish River areas: gormanite-souzalite, acicular **21:486n; 1 cm sprays 23:Y21p, 23:Y22**
- SPAIN**
Alcandre, Logroño region **18:301n**
Aliva mine, Espinama, Cantabria **23:272h, 23:284**
Almadén, Ciudad Real **18:161s, 18:301s, 19:13s, 19:122s, 19:297–302h,g,m,p, 20:73s**
Ambasaguas, Logroño region, La Rioja **20:454–456m,s**
Ana mine, Caravia-Berbes district, Asturias region **23:69h, 23:70p**
Arlós-Villabona district, Asturias region **23:71–72h,m**
Asturias region (= Orviedo province) fluorite localities **23:69–76h,g,m,p**
Asturias region (locality not specified) **19:115s**
Begues/Brueges/Brugdes/Bruges (labels unclear), Barcelona **16:477s**
Bejar, Salamanca **18:301s**
Bera Bes (Berbes?), Asturias **11:30s**
Berbes, Asturias region: **12:180p, 12:182s, 18:301s, 20:72s; see also Spain—Caravia-Berbes district**
Boal, Asturias region **25:222s**
Bodera River (near), Robledo, northeast of Hien-delaencina, Guadalajara **23:245s**
Brunita mine, La Unión district, Murcia **25:222s**
Cabretón, Logroño region **20:455–456s**
Cala mine, Huelva **20:145s**
Cantabria (formerly Santander) (see Pico de Europa)
Caravia-Berbes district, Asturias region **23:69–70h,p, 23:72m**
Carmenes district, near Villamanin, León **9:113s**
Cartagena area, Murcia **24:237s**
Ciudad Real (near) **24:237s**
Colunga (see Emilio mine)
Córdoba (locality not specified) **19:122s**
Cuetu L'Aspra, Caravia-Berbes district, Asturias region **23:70h**
El Entredicho mine, Almadén, Ciudad Real **19:297, 19:299m, 19:300p**
El Papiol quarry, near Barcelona **18:301s**
El Sabinar, Portman, La Unión district, Murcia **25:222s**
Emilia mine, La Unión, Murcia **24:237s**
Emilio mine, between Caravia and Colunga, Caravia-Berbes district, Asturias region **23:70h**
Eugui (near), Esteribar, Navarre **19:122s, 22:137–142h,m,g,p, 25:222s**
Fortuna mine, Hien-delaencina district, Guadalajara **23:243m**
Franqueira (near), Pontevedra **23:272s, 24:236s**
Franqueira (roadcut near), La Coruña **25:222s**
Fuentes de Ebro, Zaragoza **20:143–144m,g, 20:485s**
Gorgue, Murcia **25:50s, 25:222s**
Guadalperal mine, Almadén, Ciudad Real **19:299m**
Hien-delaencina district, Guadalajara **23:241–249h,m,p,g**
Horcajo mines, south of Brazortortas, Sierra Morena Mountains, Ciudad Real **25:21–27h,g,p,m**
Huercal Overa, Almeira **25:222s**
Igea, Logroño region, La Rioja **20:454m, 20:456s**
Jaén **16:306s**
La Arboleda area, Viscaya **24:236h,s**
La Cabaña, Caravia-Berbes district, Asturias region **23:70h, 25:50s**
La Collada district, Asturias region **18:301s, 20:72s, 23:70–71h,p, 23:72m**
La Nueva Concepcion mine, Almadén, Ciudad Real **19:299m**
La Rioja: **20:451–456m,p,g; see also Spain—Logroño region**
Las Cuevas mine, Almadén, Ciudad Real **19:297, 19:299m**
La Suerte mine, Hien-delaencina district, Guadalajara **23:243m**
La Unión, Cartagena, Murcia **18:301s**
La Vieja Concepcion mine, Almadén, Ciudad Real **19:299m**
La Viesca mine, La Collada district, Asturias region **23:70p, 23:495h,s, 24:236s**
Logroño region (former province; adjacent parts of Soria and La Rioja) **4:141, 7:131–133s, 9:56, 20:451–456m,p,g**
Los Pajaritos mine, La Unión district, Murcia **25:222s**
Malanoche mine, Hien-delaencina district, Guadalajara **23:249s**
Mazarrón area, Murcia **25:222s**
Minglanilla, Cuenca **11:114, 19:338s**
Moscona mine, Solis, Arlós-Villabona district, Asturias region **18:301s, 23:71–73h,m, 24:234s**
Motril, Córdoba **18:301s**
Museos Españoles de Minerales **23:503b**
Navajún, Logroño region, La Rioja **20:452–454m, 20:456s, 23:272s, 23:436s, 23:443p,h**
Navarre (locality not specified) **20:73s**
Navas de Jadraque, near Hien-delaencina district, Guadalajara **23:248s**
Orense, Orense **19:338s**
Orihuela, Murcia **21:97s**
Oviedo (near) **9:57s**
Palazuelos de las Cuevas, Zamora **25:222s**
Papiol **19:122s, 20:72s**
Pedro Alvaro, Salamanca **9:113s**
Pico de Europa, Cantabria **17:147s**
Picos de Europa **19:122s, 20:73s**
Pina de Ebro, Zaragoza **18:245s, 18:301s**
Pozo Collada shaft, La Collada district, Asturias region **23:70–71h, 23:72m**
Pozo Corona mine, La Collada district, Asturias region **23:72m, 23:73s**
Reocin (Riocim) mine, Reocin, near Torrelavega, Cantabria **22:393s, 23:284**
Rigoitia (quarry near), Viscaya **23:272s**
Riocim mine (see Reocin mine)
Rio Tinto mine, Huelva **22:63–64s**
Roadcut between Palazuelos de las Cuevas and Bercianos de Aliste, Zamora **25:222s**
San Andres, Villaviciosa de Córdoba, Córdoba **18:301s, 19:211s**
San Carlos mine, Hien-delaencina district, Guadalajara **23:243m, 23:244p**
San Lino mine, Caravia-Berbes district, Asturias region **23:69h, 23:70p**
San Sebastian, Guipúzcoa **20:145s**
Santa Cecilia mine, Hien-delaencina district, Guadalajara **23:243m**
Santa Maria pit, Hien-delaencina district, Guadalajara **23:248s**
Santander (now Cantabria) (see Pico de Europa)
Sierra Albarrana, Córdoba **24:223s**
Sierra de Prades, Tarragona **25:222s**
Soria: **20:451–456m,p,g; see also Spain—Logroño region**
Suerte mine, Hien-delaencina district (see La Suerte mine)
Tirolesa mine, Hien-delaencina district, Guadalajara **23:245s**
Troya mine, Mutiloa, Guipúzcoa **23:272**
Valdemadera, Logroño region, La Rioja **20:454m, 20:456s**
Valdenegrillos, Logroño region, Soria **20:454m**
Valdeparillo, Logroño region, La Rioja **20:454m, 20:455s**
Vapor mine, Hien-delaencina district, Guadalajara **23:245s**
Veneros Norte shaft, La Collada district, Asturias region **23:70–71h, 23:72m**
Verdad de los Artistas mine, Hien-delaencina district, Guadalajara **23:243m**
Victoria (Ampliation a Victoria) mine, Logroño region, Navajún **23:443p,h**
Villabona mine, Arlós-Villabona district, Asturias region **23:71–73h,m, 23:436s**
Villares mine, east of Hien-delaencina, Guadalajara **23:245s**
Villarajo, Logroño region, Soria **20:454m, 20:456**
Villarajo (near), Soria **9:221s**
Villaviciosa de Córdoba, Córdoba **20:145s**
Zaragoza, Zaragoza **19:115s, 19:122s**
- SPANGOLITE**
Australia
New South Wales
Kintore opencut, Broken Hill (discoidal) **19:432–433p**

- Chile**
Quetena mine, Antofagasto (id as bandylite) **14:358**
- Greece**
Laurium **13:170q**
- United States**
Arizona
Bisbee district **12:311h, 12:314d**
Czar shaft, Bisbee district (crystals to 2 cm) **12:311**
Holbrook shaft, Bisbee district (1 cm crystals) **12:311**
Irish Mag shaft, Bisbee district **12:311, 12:314**
Southwest mine, Bisbee: **18:246n**; crystals to 4 mm **24:432p, 24:433**
Nevada
Majuba Hill mine (1 mm crystals) **16:68p, 16:70**
New Mexico
Blanchard claims, Socorro County **19:(332)**
Buckhorn mine, Lincoln County (1 mm crystals) **24:383n**
Magdalena district, Socorro County **20:2**
Portales mine, Socorro County **20:42p, 20:43–44**
- SPECIMEN VALUES**
See also Dealers and Dealing
Appraisal of specimens, experiment in **8:38–40, 8:47–48**
Dollar values of specimens, (in)significance of, to museums and collectors (editorial) **4:230–231**
Investing in minerals: editorial **7:266–267**; guidelines **22:3**
Price codes on Carl Bosch collection labels **9:186–187**
Prices offered or paid for collections, 18th and 19th centuries **25:H47**
Pricing **6:213–214**
Specimen market trends: 1983 **14:354**; 1984–85 **16:441**
Survey of specimens photographed, 1980–85 **18:115**
- SPERRYLITE**
Canada
Ontario
Vermilion mine, west of Sudbury: **13:108–109p**; 12 mm crystal **13:159–160p,c,h,q**
- Finland**
Miessi River, Lappi (minute euhedral) **11:303–305c,p,d,q**
- Russia (formerly USSR)**
Sverdlovsk area (?) **20:75n**
Tagil Noril'sk deposit **24:226n**
Talnach Norilsk: **21:97n, 21:492, 22:53n, 23:43**; crystals to 2 cm **23:277n, 23:279p, 24:226**
- South Africa**
Merensky Reef, Bushveld Complex **18:193n**
Transvaal (2.4 cm crystal) **12:(211p)**
- SPERTINIITE**
Canada
Québec
Mt. St-Hilaire (minute plates, crusts) **21:339**
Poudrette quarry **19:334n**
- United States**
Arizona
Bisbee **24:433n**
- SPESSARTINE**
See also Garnet Group
Australia
New South Wales
Broken Hill: **7:28, 19:424n**; brown **24:227n**
Kintore opencut, Broken Hill **19:(428)**
- Brazil**
Minas Gerais
Córrego do Urucum pegmatite **17:311p–312**
- Canada**
Québec
Mt. St-Hilaire: **18:364n**; crude crystals to 5 cm in sulfide shells **21:339**
- Italy**
Tuscany
Buca della Vena mine **17:266n**
- Madagascar**
Anjanaboina **20:197**
- Namibia**
Marienflüss (near) (gemmy orange) **24:392n**
- Pakistan**
Dusso and Shingus pegmatites, Gilgit Division: **16:406c,q, 16:408p**; elongated **16:410p**
Gilgit Division (sharp orange) **21:250n**
Haramosh Mountains, Gilgit Division **19:128–129q**
Haramosh valley, Asad Kashmir province **11:321–322**
Shigar Valley, Gilgit Division (with metallic schiller) **24:233**
- United States**
Arizona
Aquarius Mountains **20:387**
Ash Creek, Pinal County (quartz in, bixbyite epitaxial on) **23:487–489p,q**
Bisbee (1 cm euhedral in chalcopyrite) **24:433n**
California
Hercules mine, San Diego County (gemmy to 2.5 cm) **8:515**
Himalaya dike system, San Diego County **8:466**
Little Cahuilla Mountain, Riverside County **21:482n**
Little Three pegmatites, San Diego County: **18:(360)**; almandine-spessartine **20:119–122p,q,c**; gemmy orange, also “pagoda”-like **23:423**
Mack mine, San Diego County (gemmy red) **8:513–514p**
San Diego County (almandine-spessartine) **24:66–67q**
Tourmaline Queen mine, San Diego County (gemmy orange) **8:508**
- Colorado**
Ruby Mountain, Chaffee County (almandine-spessartine) **18:198q**
- Connecticut**
Middletown (near), Middlesex County (spessartine-almandine; sharp to 7 cm) **23:424**
- Idaho**
Sawtooth batholith (red to yellow, to 2 cm) **24:197–198p**
- Maine**
Bennett quarry (almandine-spessartine grains) **25:181–182q**
- Nevada**
East Grants Ridge, Cibola County **20:61**
Garnet Hill, White Pine County: intermediate almandine-spessartine-grossular-pyrope **18:197–198p,q**; to 2 cm **22:383**
Tungsten Hill, Luna County (spessartine-grossular) **20:57**
- New Mexico**
Grants Ridge, Valencia **16:138–139p, 16:140**
Harding mine (dodecahedral to 3 cm) **8:122**
- North Carolina**
Bald Knob, Alleghany County (masses to 60 cm) **12:171**
- Texas**
Clear Creek pegmatite, Burnet County **8:90n**
- Utah**
Garnet Basin, Juab County (almandine-spessartine) **18:198n**
- Virginia
Rutherford mine, Amelia County (2800 ct gemmy crystal) **23:428n**
- SPHAEROCOBALTITE**
Morocco
Bou Azzer (crystals to 1 cm) **9:73p**
- Zaire**
Kakanda (calcite-sphaerocobaltite crystals) **22:393n**
Musoni mine (id as cobaltian calcite) **17:207q**
- “SPHAEROSIDERITE”
See Siderite
- SPHALERITE**
Dulled by tobacco smoke **20:160**
- Australia**
New South Wales
Kintore opencut, Broken Hill **19:(428)**
Northern Territory
Mt. Bonnie mine **19:(444)**
Queensland
Mt. Isa mine (some colloform) **19:483–484**
South Australia
Walleroo mines **19:416**
- Austria**
Bleiberg district (some crusts of “schalenblende”) **17:367p**
- Brazil**
Ceará
Chapada do Araripe (replacing ostracods) **6:287n**
Minas Gerais
Araçuaí area pegmatites **12:(74)**
Énio pegmatite, near Galiléia (pegmatite occurrence) **12:69**
Jove Lauriano mine, near Linópolis (grains) **14:235n**
Lavra da Ilha pegmatite, near Taquaral **4:211–212p**
Macaubas farm (micro crystals) **6:287n**
- Bulgaria**
Madan orefield: brown, black, yellow, green; crystals to 7 cm; some dodecahedral **22:444c,q**; gemmy green to 1.5 cm **25:61**
Ninth of September mine: **18:161n, 20:(69), 20:(299), 20:(394)**; bright pseudo-octahedral **22:459**
Ossikovo (green to 2 cm) **25:140s**
- Canada**
British Columbia
Bluebell mine, Riondel **8:34**
Ice River complex (cleavages) **12:224**
Mt. Washington mine, Vancouver Island **15:(90)**
Rocher Déboulé mine, near Hazelton **15:(91)**
New Brunswick
Mt. Pleasant, Charlotte County **18:362n**
Northwest Territories
Nanisivik mine: **20:(391)**; pseudo-octahedral to 3 cm; film on pyrite **21:533p,c**
Port Radium **20:(207)**
- Ontario**
Lincoln quarry, Beamsville (micro) **13:112p**
Silver Islet mine **17:60n**
- Québec**
Henderson No. 2 mine, near Chibougamau (micro euhedral) **14:155**
Mt. St-Hilaire: **13:(244)**; tetrahedral to 7 cm; various other habits **21:339, 21:340p**
Poudrette quarry (10 cm crystal) **22:386n**
- Yukon**
Mt. Hundare, near Watson Lake (skeletal) **24:49n**
Rapid Creek (crude crystals) **23:Y30**
Sa Dana Hess mine, near Watson Lake (to 4 cm) **24:223n**

- Czech Republic (formerly Czechoslovakia)**
Bohutín district, Příbram ore field (yellow) **12:158p**
Třebosko deposit (T-1 vein) (pseudo-hexoctahedral, to 1 cm) **22:211p, 22:212**
- England**
Cornwall
Botallack district **24:281n**
Derby
Ladywash mine, Eyam **14:17**
Durham
Boltsburn mine, Weardale **13:16p, 13:18**
- France**
Saint-Pons (near), Haute-Provence **24:43n**
- Germany**
Rheinland-Pfalz
Ems district **15:343**
Friedrichsseggen mine (red) **15:343d**
Königstiel mine (massive vein 11 m thick) **15:326**
Neuhoffnung mine (yellow, red, black) **15:343**
Rosenberg mine (twinned) **15:341p**
- Greece**
Laurium area **7:117**
- Greenland**
Narssárssuk (masses) **5:123**
- Italy**
Sardinia
Seddas Moddizia mine (red micro) **15:372n**
Tuscany
Boccheggiano and Niccioleta mines (tetrahedral) **10:291**
Buca della Vena mine **17:266n**
Carrara region: "epidote" id as **18:289**; some penetration twins **18:269c,d**
Lorano basin quarries (wurtzite epitaxial on) **18:271d,c**
- Japan**
Ari mine, Akita (crystals over 700 g) **9:368**
Oppu mine, Aomori (crystals to 5 cm) **9:368n**
- Kazakhstan (formerly USSR)**
Dzhezkazgan (orange, green) **25:61**
- Mexico**
Chihuahua
Batopilas district **17:(79)**
Guerrero
Taxco **18:155n**
- Namibia**
Tsumeb: brown, green; cadmian "příbramite" **8:T32**; "floaters" **10:113, 10:114p**
- New Zealand**
Tui mine (crystals to 28 mm) **6:27–28**
- Norway**
Kongsberg (with wire silver) **17:28p**
- Peru**
Casapalca, Junin (greenish) **9:36n**
Huanzala mine, Huanuco (1.5 cm crystals) **13:30**
Julcani district **5:217n**
- Portugal**
Panasqueira mine (to 5 cm) **2:76**
- Romania**
Cavnic (Kapnic) **20:72n**
- Serbia (formerly Yugoslavia)**
Trepča: **18:(368), 18:409, 19:45, 20:(72)**; lustrous crystals to 10 cm **4:58–59p**
- Slovenia (formerly Yugoslavia)**
Mežica mine (grains) **22:104n**
- South Africa**
Transvaal
Messina district (in thin sections) **22:199**
- Spain**
Aliva mine, Espinama, Cantabria (crystals to 10 cm) **23:272**
Pico de Europa, Cantabria **17:147n**
Picos de Europea **19:122n, 20:73**
San Sebastian, Guipúzcoa **20:145**
Troya mine, Guipúzcoa (micro orange) **23:272**
- Switzerland**
Lengenbach quarry (micro) **8:280p**
- United States**
Arizona
Bisbee district **12:314**
Campbell shaft, Bisbee district (massive, tribooluminescent) **12:314**
Fat Jack mine, Yavapai County (yellow-green, in quartz) **22:27**
Iron Cap mine, Graham County **19:81–87p,d**
Junction shaft, Bisbee district (massive) **12:314n**
Magma mine **14:78p**
Mammoth mine, Pinal County (massive; minute crystals) **11:161**
New Cornelia mine, Pima County **14:297**
79 mine **3:250**
Tonopah-Belmont mine, Maricopa County **19:143**
- Arkansas
Rush Creek district (crude crystals, masses; various colors) **24:299**
- California
Darwin district, Inyo County (massive) **15:17n**
Jensen quarry, Riverside County **15:289n**
Kalkar quarry, Santa Cruz County **17:320**
Monitor-Mogul district, Alpine County (crystals to 6 mm) **22:39**
- Colorado
Bancroft mine, Rico district **16:213**
Big Four mine, Summit County (green to 10 cm) **7:284–285**
Black Cloud mine, Leadville district: **7:289, 7:293p**; with galena and dolomite **16:191n**
Brooklyn mine, Silverton district (gemmy) **10:331n**
Camp Bird mine, Ouray County: 4 cm crystals **7:303n**; some spinel twins, to 2.5 cm **14:146p**
Commodore mine, Mineral County (5 cm black; clear green to 12 mm) **7:295p, 7:297–299**
Cross mine, Caribou **10:331**
Genesee-Vanderbilt mine, Ouray County **19:99**
Grizzly Bear mine, Ouray County (gemmy green) **14:249n**
Home Sweet Home mine (see Sweet Home mine)
Italian Mountain area, Gunnison County (massive) **15:84**
Leadville district **16:197p**
Lily D. mine, Rico district **16:(213)**
Little Giant mine, Clear Creek County (clear green to 3 cm) **7:283**
Little Jonny/Ibex mine, Leadville district **16:190n**
Mountain Monarch mine, Ouray County **19:93**
Moyer mine, Leadville district: **7:289n, 7:293p**; 2.5 cm crystals **16:182n, 16:197p**
National Belle mine, Ouray County **17:234p, 17:235**
Newman Hill, Rico district (gemmy green) **16:213n**
Portland mine, Ouray County: gemmy green **10:331h**; pyrite oriented on some **19:100–101p**
Rico Argentine mine, Rico district **16:213**
Rico Aspen mine, Rico district **16:(213)**
Rico district, Dolores County **16:213**
Sambo mine, Rico district **16:(213)**
San Juan County **10:359n**
Sherman mine, Leadville district (gemmy red) **10:330**
- Sweet Home mine, Park County **10:333n, 10:336**
Tucson mine, Leadville district (crystals to 1.2 cm) **16:181n**
Union Carbonate mine, Rico district **16:(213)**
Wellington mine, Summit County (2.5 cm crystals) **7:284**
- Connecticut
Thomaston Dam, Litchfield County: wurtzite epitaxial on **10:239–240p,c**; "wurtzite" id as sphalerite after wurtzite **4:85**
- Illinois
Denton mine, Hardin County **18:148**
- Indiana
Bedford (near), Monroe County (cleavages) **22:353**
- Iowa
Pint's quarry, Raymond, Black Hawk County **20:478**
- Maine
Sanford deposit, York County (grains, masses) **24:363**
- Michigan
Marquette County **17:121n**
White Pine mine, Ontonagon County **23:M68n**
- Missouri
Buick mine, Reynolds County **15:39n**
- Nevada
Killie mine, Elko County (highly altered) **18:416**
Majuba Hill mine (minute grains) **24:175**
Outlaw mine, Nye County (massive) **22:178**
- New Jersey
Buckwheat open pit, Franklin (micro euhedral spinel twin) **14:192–193p**
Franklin/Sterling Hill: **19:274n**; anhedral **25:100**; fluorescent **19:275**
Lower New Street quarry, Paterson **9:173n**
- New Mexico
Alhambra mine, Grant County **20:59n**
Germany mine, Socorro County (botryoidal) **20:23**
Hansonburg district, Socorro County **20:36**
Lynchburg mine, Socorro County **20:61n**
Magdalena district, Socorro County **20:23**
Point of Rocks quarry, Colfax County (tiny crystals) **15:154**
Sunshine #4 mine, Socorro County **20:36**
- New York
Lockport, Niagara County **20:300**
Pierrepoint mine, St. Lawrence County **23:425n**
Sterling mine, Jefferson County (pseudo-octahedral rosettes) **15:208p**
- Ohio
Duff quarry, Logan County **18:392p**
- Pennsylvania
Chester County mine **20:383**
Donohoe, Westmoreland County (epitactic on wurtzite) **20:391**
Phoenixville **20:382–383p**
Thomasville quarry, York County: **23:437**; bright green to 4 cm **23:425, 23:426p**
Wheatley mine **20:383**
- Tennessee
Elmwood mine, Smith County: **20:(391)**; crystals to 8 cm **9:217, 9:218p**
Jefferson City (near), Jefferson County **3:90–91p**
- Wisconsin
Rib Mountain, Marathon County (micro in quartz) **12:95**
Vulcan quarry, Racine County (botryoidal) **25:380–381n**

GENERAL INDEX

- Wales**
Mid Glamorgan
Scotch Collary **20:395**
- Zambia**
Broken Hill mine (massive; intergrown with wurtzite) **11:341**
-
- “SPHENE”
- See Titanite*
-
- SPINEL**
- Australia**
Western Australia
Greenbushes tinfield (micro crystals) **9:83, 9:84p**
- Brazil**
Rio de Janeiro
Countagarlo (grey, to 4 mm) **22:387n**
- Burma**
Mogok area **19:(335)**
Upper Burma (locality not specified) **16:148p**
- Canada**
Ontario
Bathurst Township, Lanark County (crystals to 5 cm; corundum after some) **13:73q, 13:79p–80**
Québec
Parker mine, near Notre-Dame-du-Laus: **19:117n, 19:334n,c, 25:214**; euhedral to 6 cm **24:371–373c,d,p,q**
- Italy**
Campania
Vesuvius: black micro **12:43p**; ferroan, “pleonaste” **15:41n**
Lombardy
Dosso dei Cristalli, Val Malenco (micro black, green, violet) **3:123**
- Myanmar (formerly Burma)**
Locality not specified (gemmy red in quartz) **24:385n, 24:386p**
- Russia (formerly USSR)**
Aldan, Yakutia (to 3 cm) **22:393n**
Pereval, Baikal area (pink to 5 mm) **21:492n**
Pitkäranta district, Karelia (taaffeite epitacticon) **22:343, 22:347**
- Tanzania**
Locality not specified (2.5 cm pink crystals) **22:217n**
- United States**
Arizona
Bisbee district **12:(315)**
California
Jensen quarry, Riverside County (various colors to 2 cm) **15:280, 15:289n**
Colorado
Italian Mountain area, Gunnison County **15:87n**
Sloan diatremes, Larimer County (2 mm black) **13:207p**
Montana
Dry Gulch skarn locality, near Helena (blue) **23:424**
New Jersey
Franklin (green) **15:146**
New York
Amity area, Orange County: **19:274n**; crystals to 7 cm; 158 kg crystal **9:89p**
-
- SPIONKOPITE**
- United States**
Arizona
Campbell shaft, Bisbee **24:433n**
-
- SPIROFFITE**
- Mexico**
Sonora
Moctezuma mine **1:42**
-
- SPODUMENE**
- “Kunzite,” “type specimens” **19:210h**
- Afghanistan**
Dara Pech, Kunar province (pale green to 5.2 cm) **25:380n**
Laghman (3 localities): “kunzite” **19:271n**; various colors; gem crystals to 1 m **9:304–305p, 9:307**
Locality not specified **20:397**
Mawi, Laghman: gemmy “kunzite” to 15 cm **25:61**; gemmy “kunzite,” to 40 cm **24:384n**; “kunzite” matrix crystals **11:322**
- Australia**
Western Australia
Greenbushes tinfield **9:(83)**
- Austria**
Brandrücken, Carinthia/Styria **17:110n**
- Brazil**
Minas Gerais
Araçuaí area pegmatites (fractured crystals to 1 m) **12:74**
Córrego do Urucum pegmatite (some “kunzite”) **17:312p–313c,q**
Cruzeiro mine **11:370**
Four localities **2:(12)**
Jove Lauriano mine, near Linópolis **14:(235)**
Resplendor: pink, green tabular **21:97**; 25 cm green crystal **21:487n**
Zé Mario mine, Araçuaí area (“kunzite”) **12:75n**
- China**
Altay region, Xinjiang autonomous region **18:(326)**
- Madagascar**
Anjanaboina **20:197**
- Sweden**
Utö, Stockholm **19:295h**
- United States**
California
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**
San Pedro mine, San Diego County (28 cm “kunzite”) **8:512**
Sickler mines, San Diego County (14 cm crystal) **14:(371p)**
Stewart mine, San Diego County (gemmy yellow) **8:508**
Vandenberg mine, San Diego County (purple “kunzite”) **8:512**
White Queen mine, San Diego County (“kunzite”) **18:369–372h,p**
- Connecticut
Gillette quarry, Middlesex County (“pinite” mica after) **23:28**
- Maine
Bennett quarry (cookeite after) **25:183**
Dunton mine **16:(382)**
Georgetown, Sagadahoc County (gemmy, photosensitive) **16:379n**
Martin prospect, Oxford County (6.34 m crystal) **24:382**
Mt. Mica (pinkish cleavages) **16:372n**
- New Mexico
Harding mine: **20:64n**; laths to 4.3 m **8:120–121q, 8:123p**
- North Carolina
Adams property, Alexander County (“hiddenite,” to 8 cm) **2:190**
- South Dakota
Tin Mountain mine, Custer County (6m crystals) **4:110**
-
- “SPREUSTEIN”
- Hydrothermally altered sodalite and nepheline*
- Norway**
Oslofjord/Langesundsfjord region **22:52n**
-
- SPURRITE**
- United States**
New Mexico
South Sister Peak, Luna County (masses) **22:384**
-
- SQUAWCREEKITE**
- United States**
New Mexico
Squaw Creek tin mine, Catron County: **20:404**; micro **22:384n**
-
- SRI LANKA**
- Formerly Ceylon*
Ambilipitiya, near Kataragama **25:57s**
Balangoda, near Ratnapura **17:341s**
Embilipitiya **17:341s**
Galbokka, near Vallivaya, Uva province **25:57s**
Localities not specified **15:44s, 18:368s, 22:343–347s**
Rakwana-Deniyaya, Sabaragamuwa **24:230s**
Ratnapura **18:368s, 19:120s, 19:338s**
-
- STANNITE**
- Australia**
Northern Territory
Mt. Bonnie mine **19:(444)**
- Bolivia**
Llallagua (2 mm euhedral) **13:235n**
Oruro Dept. (numerous localities) (crystals to 1 cm) **6:132**
San José mine, Oruro Dept.: **15:46p**; spherical aggregates to 3 cm **14:389**
- China**
Chenzhou, Hunan **21:(488)**
Hengyang, Hunan **20:(69), 20:236**
Zinyhanj mine, Hunan (1 cm crystals) **25:47n, 25:49p**
- England**
Cornwall
Botallack district **24:(281)**
- United States**
Arizona
Campbell shaft, Bisbee **24:433n**
California
Kalkar quarry, Santa Cruz County **17:320**
Thompson mine, Inyo County **15:(17)**
Nevada
Majuba Hill mine (grains) **24:175**
-
- STANNOIDITE**
- Japan**
Akenobe mine, Hyogo-ken **8:(517)**
- United States**
Arizona
Campbell shaft, Bisbee district **12:314**
-
- “STARINGITE”
- Mixture*
- Brazil**
Minas Gerais
Jaguaraçu mine (discredited as mixture of cassiterite and tapiolite) **25:167p, 25:168h**
-
- STARKEYITE**
- Vs. leonhardtite **6:144–145h**
- Macedonia (formerly Yugoslavia)**
Allchar (fibrous) **24:444**
- United States**
California
Alta mine, Del Norte County **6:144q**
Missouri
Starkey mine, Madison County **6:144**

STAUROLITE

Australia

Queensland

Maltese Cross field, Mt. Isa-Cloncurry district **19:474c, 19:489**

Soldiers Gap area, Mt. Isa-Cloncurry district **19:489**

Brazil

Bahia

Tapera do Rochedo (crystals to 10 cm; quartz, muscovite after) **8:383–385p**

Minas Gerais

Agua Quente, Rio Pardo de Minas **2:12n**

Fazenda Gramiais, northwest of Rubilita (stout 60° twins) **5:230–231p**

United States

Alabama

Lake Martin, south of Alexander City (2 cm crystals) **9:391**

Connecticut

Litchfield County **18:(360)**

Georgia

Fannin County (combined 60° and 90° twin) **21:482**

New Hampshire

Pearl Lake, Grafton County (to 5 cm) **25:377n**

North Carolina

Stratford (west of), Alleghany County (30 mm crystals) **2:43**

STEACYITE

Canada

Québec

Mt. St-Hilaire (“ekanite” id as; prismatic to 3 mm; cruciform twins) **21:339–340, 21:341p**

Poudrette quarry **18:(363)**

United States

North Carolina

Henderson County (massive) **18:361n**

“STEATITE”

Usually refers to massive talc

Germany

Bavaria

Johanneszeche (after unknown mineral) **19:124n**

STEENSTRUPINE

Locality not specified **20:339, 20:340q**

Canada

Québec

Mt. St-Hilaire (blobs, plates to 3 mm) **21:340–341**

Poudrette quarry **18:(363)**

Greenland

Ilímaussaq: equant, tabular **24:G23–24p,d,q**; octahedral to 3 cm **22:48n**

STELLERITE

Australia

New South Wales

Garrawilla volcanics: **19:391p, 19:396–397p,c**; crystals to 10 cm **23:432n**

India

Jalgaon area quarries **23:434n, 25:377n, 25:381p**

Namibia

Rössing **17:(341)**

Norway

Kongsberg **17:(35)**

Pakistan

Dassu, Northern Areas (25 mm hemispheres) **25:377n**

Russia (formerly USSR)

Klick (globular to 8 cm) **25:46n**

Nidym, Tura region **24:(226)**

Noril'sk, Kranoyarski Kray (to 3 cm) **23:433n**

Sokolovska-Sarbaisk, Ural Mountains (spheres to 2.5 cm) **23:437n**

United States

California

Geysers, The, Sonoma County (sharp tabular to 4 mm) **24:351**

Oregon

Grant County **8:(390)**

Lost Creek Dam, Douglas County **14:367p**

“STELZNERITE”

See Antlerite

STENHUGGARITE

Sweden

Långban district **3:6h,q**

STEPHANITE

Canada

British Columbia

Highland Bell mine, Beaverdell **20:446**

Ontario

Silver Islet mine **17:(59)**

Chile

Chañarcillo **10:201n**

Czech Republic (formerly Czechoslovakia)

Brezové Hory district, Příbram ore field **12:(163), 12:164d**

Jáchymov (St. Joachimsthal) **17:(15)**

Příbram (Lidstrom Trophy-winning miniature) **25:219**

Třebesko deposit (T-1 vein) (tabular, to 1 cm) **22:212q**

Germany

Baden-Württemberg

Anton mine, Wieden **17:(6)**

Tannenboden mine, Wieden **17:(6)**

Niedersachsen

St. Andreasberg **17:(9)**

Obersachsen

Bergmanns Hoffnung, Freiberg **9:195p**

Bräunsdorf, Freiberg **17:(18)**

Freiberg **18:163n**

Schneeberg **17:(13)**

Mexico

Chihuahua

Batopilas district **17:(79)**

San Luis Potosí **18:160**

Sonora

Las Chispas mine, Arizpe **25:73h,c,q**

Zacatecas

Fresnillo **22:391n**

Veta Grande mine (crystals to 5 cm) **11:322p**

Norway

Gottes Hülfe mine, Kongsberg **17:34d**

Kongsberg **17:35**

Spain

Hiendelaencina district, Guadalajara (crystals to 5 cm) **23:248p, 23:249d,c**

Verda de los Artistas mine, Guadalajara (tabular twins) **23:249**

United States

California

Morning Star and Zaca mines, Alpine County **22:(39)**

Colorado

Enterprise mine, Rico district **16:213–214n**
Many localities (id as other sulfosalt minerals) **7:276**

Red Mountain district, Ouray County **10:359n**

Rico Aspen mine, Rico district **16:(213)**

Ruby Chief mine, Gunnison County **14:(247)**

STEREOPHOTOGRAPHY

See Photography of Specimens

STEREO VIEWER

Included with **18:#6**

STERNBERGITE

Vs. argentopyrite **2:102**

Vs. argentopyrite, argyropyrite, silberkies **5:4h,q**

Canada

British Columbia

Highland Bell mine, Beaverdell **20:446**

Germany

Niedersachsen

St. Andreasberg **17:(9)**

Norway

Kongsberg **17:(35)**

Spain

Verda de los Artistas mine, Guadalajara (thin plates) **23:249**

United States

Arizona

Bisbee district **12:(315)**

South Dakota

Tip Top mine **17:246**

STERRYITE

Canada

Ontario

Madoc (near) **13:95–97p,q**

Taylor farm, near Madoc **13:(80)**

STETEFELDITE

United States

Arizona

Red Cloud mine, La Paz County (powdery) **11:148**

Snyder Hill mine, Pima County **16:(153)**

Nevada

Belmont, Nye County **16:55h**

STEVENSITE

Canada

Québec

Wilberforce (north of) (fl. coating on diopside; tentative id) **17:339n**

United States

Arizona

Lavender pit (Holbrook extension), Bisbee district **12:314**

Colorado, Wyoming, Utah

Green River formation **8:368–71**

New Jersey

Paterson area, Passaic County (pectolite altering to) **9:166**

Route 80 roadcut, Passaic County: **2:30–31h,p,q**; replacing pectolite **1:174**

STEWARTITE

Association with laueite **16:463–464**

Numerous world localities **4:119**

Brazil

Minas Gerais

Conselheiro Pena **24:385n**

United States

Alabama

Williams pegmatites, Coosa County (granular) **6:71–72**

California

Stewart mine, San Diego County **4:116**

Maine

Newry area (micro bladed; some id as laueite) **6:201**

New Hampshire

Fletcher mine, Grafton County **4:116**

South Dakota

Tip Top mine **17:247**

STIBARSEN

Canada

British Columbia

Engineer mine, near Atlin (with arsenic; “allemontite”) **24:385n**

- Czech Republic (formerly Czechoslovakia)**
Třebesko deposit (T-1 vein) (botryoidal masses) 22:211p, 22:212
- Spain**
Hiendelaencina district, Guadalajara (massive) 23:249
-
- STIBICONITE**
- Bolivia**
Tarumita and Porvenir mines, Oruro Dept. 6:136
- Italy**
Tuscany
Boccheggiano and Niccioleta mines (after stibnite) 10:291
Pereta mine 15:20n
- Macedonia (formerly Yugoslavia)**
Allchar (coatings; after stibnite) 24:445
- Mexico**
Zacatecas
Locality not specified (sharp crystals) 8:282
- Namibia**
Tsumeb (probable locality) 13:143–144
- United States**
Arizona
Cole shaft, Bisbee district 12:314n
New Cornelia mine, Pima County (doubtful id) 14:(297)
- California
Antimony Peak, Kern County (after stibnite; acicular due to splitting of crystals) 3:80–81
Darwin Antimony mine, Inyo County 15:17n
Kalkar quarry, Santa Cruz County (on and after stibnite) 17:321, 17:322
Quien Sabe mine, Stayton district (after stibnite) 20:434p
- Nevada
Green Prospect, Churchill County (after stibnite) 16:73
Killie mine, Elko County 18:418
- Wisconsin
Rib Mountain, Marathon County (coating) 12:95
-
- STIBIOBETAHITE**
- Czech Republic (formerly Czechoslovakia)**
Věžná, western Moravia (announced) 11:112h,q
-
- STIBIOLCOLUMBITE-STIBIOTANTALITE**
- See also Columbite-Tantalite*
- Australia**
Western Australia (stibiotantalite) 19:(363)
- United States**
California
Himalaya dike system, San Diego County: 8:514; crystals to 5 cm 8:468q
Himalaya mine, San Diego County (stibiotantalite) 18:(360), 18:362p
Jensen quarry, Riverside County (stibiotantalite) 15:284p, 15:285
Stewart mine, San Diego County (2.5 cm crystal) 8:508
- Colorado
Lake George area, Pikes Peak batholith 10:377
-
- STIBIVANITE**
- Canada**
New Brunswick
Lake George mine (fibrous to 2 mm) 22:266–267
- Italy**
Tuscany
Buca della Vena mine 17:266, 17:267p
-
- STIBNITE**
- Australia**
New South Wales
Hillgrove (with gold) 18:(28)
- Bolivia**
La Salvadorita mine (7.5 cm crystal) 14:54p
Oruro Dept. (several localities) 6:132
Quimsacoya mine, Huanuni district (with wolframite crystals) 6:132
San Antonio mine, Calacalani district (with ferberite) 6:132
- Brazil**
Minas Gerais
Morro do Bule prospect, near Capão da Lana (micro crystals) 6:287n
- Canada**
British Columbia
Mt. Washington mine, Vancouver Island 15:(89)
Tungsten Queen mine 2:207
New Brunswick
Lake George mine (crystals to 15 cm) 22:267
Québec
Lac Nicolet mine, Wolfe County 18:(363), 19:334n
- China**
Hunan (crystals to 25 cm) 14:387p, 14:388
Kuangshan mine, Hunan 20:147
Lengshuijiang, Hunan (valentinite, cervantite after, to 35 cm) 22:388n
Xikuangshan antimony mine, Lengshuijiang: 18:(326), 18:327p, 20:236; valentinite/cervantite after 23:277
- Czech Republic (formerly Czechoslovakia)**
Bohutín district, Příbram ore field 12:162n,d
- Italy**
Tuscany
Boccheggiano and Niccioleta mines (crystals to 10 cm; stibiconite after some) 10:291
Buca della Vena mine 17:266n
Calagio quarries 18:272p
Montauto, Manciano 18:160
Pereta mine (some coated with valentinite, etc.) 15:24–25p
Tafone mine, near Manciano 15:117–118n
- Japan**
Ichinokawa mine, Ehime 19:232–237p,d,c, 21:52p, 21:80p
Yokohi mine, Ehime 19:235
- Kazakhstan (formerly USSR)**
Akschatau (prob. locality) (blades to 15 cm) 24:394n
- Kyrgyzstan (formerly USSR)**
Kadamajaz, Osh Oblast (crystals to 10 cm) 23:494–495n, 24:226n
- Macedonia (formerly Yugoslavia)**
Allchar (fibrous; euhedral to 10 cm) 24:445p
- Mexico**
Durango
El Sombrete (crystals to 5 cm) 9:37
Guerrero
Taxco 18:429, 18:431p
Zacatecas
Sombrette (id as jamesonite) 7:56–59p
Sombrete (in calcite) 18:408n
- Namibia**
Tsumeb (tiny spray) 13:143
- New Zealand**
Golden Age lode, Moanatairi mine, Thames (crystals to 4 cm) 1:113
Localities not specified (prismatic to 6 cm) 1:113
Thames, North Island (prismatic to 15 cm) 1:101
- Peru**
Hermínia mine, Julcani district (poss. bismuthinite) 5:217
Raura mine, Lima Dept (stout crystals to 7 cm) 22:53n
Sacramento mine, Julcani district 5:217n
- Romania**
Baia Sprie area 19:(338)
Baiuti (thick prismatic) 9:134
Bajuz: 15:117p; prismatic to 6 cm 22:53n
Herja (formerly Kisbánya): intergrown blades to 10 cm 23:268; short prismatic 13:374n
Suior (Sujorbánya) (to 5 cm) 23:268n
- Spain**
Hiendelaencina district, Guadalajara (fibrous masses) 23:249
- Thailand**
Chiang Mai province: 18:368n; fluorite-coated 18:245n
- United States**
California
Alta mine, Stayton district 20:430
Ambrose mine, Stayton district 20:430, 20:434–437p
Antimony Peak, Kern County (some stibiconite after) 3:80
Blue Wing mine, Stayton district 20:430
Comstock mine, Stayton district 20:430
Darwin Antimony mine, Inyo County 15:17n
Gleason mine, Stayton district 20:431
Jensen quarry, Riverside County 15:289n
Kalkar quarry, Santa Cruz County (crude crystals, masses with kermesite) 17:320–321
Lone Tree mine, Stayton district 20:437
McLaughlin mine, Napa County 24:222
McLoughlin mine, Lake County (prismatic to 8 cm) 21:256
Quien Sabe mine, Stayton district: 20:431; stibiconite after 20:434
Rip van Winkle mine, Stayton district (see Ambrose mine)
Shriver mine, Stayton district 20:431
Stayton district, Hollister 20:427–438c,p,g,h,d, 21:264n
Stayton mine, Stayton district 20:431–432, 20:434–435
- Colorado
4th of July mine, Eagle County 7:276n
North Star mine, San Juan County 10:359n
Revenge mine, Boulder County (crystals to 5 cm) 7:280
- Massachusetts
Loudville mines, Hampshire County (id as cerussite) 6:296
- Nevada
Dee mine, Elko County 19:(332)
Getchell mine, Humboldt County 19:(255)
Green Prospect, Churchill County (various minerals replacing crystals to 15 cm) 16:73
Manhattan, Nye County (16 cm group) 22:55p
Steamboat Springs, Washoe County (observed forming in pools; acicular crystals in mud) 16:25h, 16:30
White Caps mine, Nye County (crystals to 6 cm, masses to 35 cm; some crystals formed in mine fire) 16:84c,p, 16:86p
-
- STICHTITE**
- Australia**
Tasmania
Stichtite Hill 19:388
Tunnel Hill 19:388
- Canada**
Québec
Marbridge #1 mine, Malartic district 7:178
-
- STILBITE**
- Australia**
New South Wales
Garrawilla area (most id as stellerite) 19:396–397
Victoria
Helens Head, Phillip Island 19:456

GENERAL INDEX

- Sunderland Bluff, Phillip Island **19:456, 19:460q**
- Brazil**
 Minas Gerais
 Pedreira Atalaia, Pico do Ibituruna (poss. id) **22:387n**
 Santa Catarina
 Lages (south of) **2:13n**
- Canada**
 British Columbia
 Monte Creek, Kamloops district **19:333n**
 Nova Scotia
 Wassons Bluff, near Parrsboro **18:433n**
 Québec
 Maniwaki **24:388n**
 Matilda Lake (near), Argenteuil County **22:386n**
- Denmark**
 Farøe Islands (12 localities): crystals to 1 cm **12:20d,p; 1 cm white 22:48**
- England**
 Cornwall
 Botallack district (unconfirmed) **24:282n**
- Iceland**
 Teigarhorn area **17:340n**
 Ten localities (crystals to 3 cm, groups to 10 cm) **12:20c,p,d**
- India**
 Pandulena Hill quarries, near Nasik: pink **7:260; pink massive, crystals to 20 cm 13:306–308p**
 Poona area quarries (10 cm bowties) **7:254p, 7:260**
 Wagholi quarries, Poona district **22:418–419p**
- Ireland**
 Locality not specified (micro) **10:175**
- Italy**
 Lombardy
 Baveno area **14:165**
 Tuscany
 San Piero in Campo area, Elba **16:362**
- Kazakhstan (formerly USSR)**
 Sokolovskaya **25:218n**
- New Zealand**
 Stew Point, South Island **14:50p**
- Northern Ireland**
 County Down
 Slieve Donard quarry (pegmatite occurrence) **13:44**
- Norway**
 Hitra and Smøla islands, Sør-Trøndelag/Møre og Romsdal (reddish) **23:436n**
- Russia (formerly USSR)**
 Krasnoyarsky Kray, Yakutia (bow-ties to 8 cm) **23:433n**
- South Africa**
 Transvaal
 Mooinooi mine, Brits **20:398**
 Palabora mine (some single crystals) **22:260–261**
- Sweden**
 Leveäniemi iron mine, Norrbotten **20:(346)**
 Malmberget mine, Lappland: **22:393n; large orange sheaves 22:47**
- United States**
 Alaska
 Kuiu Island (on quartz crystal stalactites) **18:359n**
 Rocky Pass, near Kuiu and Kupreanof islands **24:381n**
 Sitka (island near) (with heulandite, stalactitic quartz) **19:331n**
 Arizona
 Mammoth mine, Pinal County (micro bow-ties) **11:161**
 New Cornelia mine, Pima County **14:297**
 New Water Mountains, Yuma County **14:(119)**
 Winkleman (south of), Pinal County **14:109n**
- California
 Himalaya dike system, San Diego County (crystals to 12 mm) **8:472**
 Himalaya mine, San Diego County (on elbaite) **16:421p, 16:424**
 Jensen quarry, Riverside County **15:280c, 15:285p, 15:289n**
 Little Three pegmatites, San Diego County **20:123**
- Colorado
 Italian Mountain area, Gunnison County **15:84**
 Table Mountain, Jefferson County **19:164q, 19:173p**
- Connecticut
 Thomaston Dam, Litchfield County **10:241**
- Idaho
 Sawtooth batholith (crystals to 4 mm) **24:198**
- Michigan
 Central mine, Keweenaw County: micro **14:225; red-orange 23:M68**
 Keweenaw Peninsula (resembles “adularia” microcline) **23:M68**
- New Jersey
 Chimney Rock quarry, Somerset County **9:30**
 N. Hoyt Street, Ft. Lee (micro) **22:384n**
 Paterson area, Passaic County (single crystals; wheat sheaves to 10 cm) **9:159p, 9:171, 9:178p**
 Route 80 roadcut, Passaic County (spheres, single crystals) **1:174**
 Route 78 and Shunpike Rd., Summit (brown) **4:232**
- New Mexico
 Gila River, Grant County **20:59n**
- Pennsylvania
 Dyer quarry, Berks County **25:118**
 French Creek mine (crystals to 3.5 cm) **25:118**
- Washington
 Skookumchuck Dam, Thurston County (crystals to 10 cm) **3:32p, 3:33**
- Wyoming
 Yellowstone National Park (tentative id; micro) **12:35**
-
- STILLWELLITE-(Ce)**
- Australia**
 Queensland
 Mary Kathleen deposit, Mt. Isa-Cloncurry district **19:(474), 19:489**
- Canada**
 Ontario
 Desmont mine, near Wilberforce: **13:80n; crystals to 5 mm 13:225p**
 Québec
 Mt. St-Hilaire (prisms to 2 mm) **21:341d**
- Italy**
 Lazio
 Vetralla, Viterbo **23:435n**
-
- STILPNOMELANE**
- Australia**
 Queensland
 Mt. Isa mine (gudmundite after) **19:481, 19:484**
- Canada**
 Ontario
 Eldorado mine, near Madoc **13:111n**
 Québec
 Sherbrooke **20:219p**
- Norway**
 Kongsberg **17:(35)**
- United States**
 Arizona
 Binghamton mine, Yavapai County **11:265n**
- Colorado
 Sunnyside (American Tunnel) mine, San Juan County **10:359n**
- Maine
 Jim Pond Township (brilliant crystals to 2 cm) **22:382**
- Montana
 Blanchard Mountain, Skagit County **20:390**
- New Jersey
 Paterson area, Passaic County **9:174**
- New York
 Sterling mine, Jefferson County (cacoxenite id as) **15:208–212p,q**
- North Carolina
 Bald Knob, Alleghany County (manganooan, micaceous to 5 mm) **12:171**
- Pennsylvania
 French Creek mine (flakes; “glaucosite,” “chalcodot” id as) **25:118**
- Wisconsin
 Rib Mountain, Marathon County (crystals) **12:96**
-
- STOIBERITE**
- El Salvador**
 Izalco volcano: **18:(339); announced 11:112h,q,c**
-
- STOKESITE**
- Brazil**
 Minas Gerais
 Córrego do Urucum pegmatite: **7:221n, 17:312p; crystalline balls 22:387n; crystalline balls to 3 cm 4:275–276**
 Galiléia **24:(49)**
- England**
 Cornwall
 Botallack district **24:282h**
 Penryn Granite County quarry, Halvasso (crystals to 7 mm) **8:294–296d,q,c**
 Roscommon Cliff, near St. Just (10 mm crystal) **4:275h,d**
 Wheel Cock Zawn, near St. Just (4 mm crystal) **8:295–297d,p**
- United States**
 California
 Himalaya dike system, San Diego County (minute grains) **8:472–473**
-
- STOLZITE**
- Vs. wulfenite **21:99–100**
- Australia**
 New South Wales
 Broken Hill: **7:31, 19:424n; crystals to 3 mm 14:215–216c,p**
- France**
 Sainte-Lucie mine, Lozère: **22:225n; 5 cm plates 23:269n; 6 cm crystals 15:251n; 3 cm crystals 21:489; to 2.5 cm 22:214p, 22:216**
- Italy**
 Tuscany
 Buca della Vena mine **17:266n**
- Namibia**
 Tsumeb: **13:149–150p,c,q; 2.5 cm crystals 13:143**
- United States**
 Arizona
 Campbell shaft, Bisbee district **12:314**
 Fat Jack mine, Yavapai County (small tabular, some with central hole and fl. peach-pink) **22:23p, 22:27–28c,q**
 California
 Thompson mine, Inyo County **15:(17)**
 Montana
 Black Pine mine, Granite County (crystals to 2 cm; fl. UV) **23:481p, 23:482**
 New Mexico
 Irish Rose vein, Luna County **20:57n**

GENERAL INDEX

STOTTITE

Stottite group **4:26–28h,q**

Namibia

Tsumeb: **4:26h**; crystals to 1 cm **8:T31, 8:T50, 8:T75p**; “mangan-stottite”; crystals **8:T28n**; “zinc-stottite”; crystals to 9 mm **8:T34n, 8:T59p**

STRANSKIITE

Namibia

Tsumeb: **8:T33, 10:113**; vs. keyite **8:T89**

STRASHIMIRITE

Bulgaria

Zapachitsa mine, Stara-Planina zone **22:441h**

Spain

Horcajo mines, Ciudad Real (micro euhedral) **25:27**

United States

Nevada

Majuba Hill mine (felted acicular) **16:68p, 16:70p**

Utah

Gold Hill mine (blades to 4 mm) **24:19p, 24:21**

STRÄTLINGITE

Germany

Rheinland-Pfalz

Bellerberg (rosettes) **8:325d**

STRENGITE

In pegmatite environments **4:114**

Numerous world pegmatite localities **4:119**

Australia

New South Wales

Kintore opencut, Broken Hill (strengite-variscite) **19:433q**

South Australia

Iron Monarch pit, Iron Knob: cyrilovite after **22:(387)**; white crystals altering to cyrilovite **12:105–106p**

Brazil

Minas Gerais

Conselheiro Pena **24:385n**

Canada

Yukon

Big Fish River area (powdery) **23:Y37**

Germany

Bavaria

Hagendorf (crystals) **4:114**

Sweden

Norrbottn

Leveäniemi iron mine **18:367p, 18:368n, 20:345p, 20:346, 22:48n**

United States

Alabama

Indian Mountain, Cherokee County **20:357p**
Jacksonville (near), Calhoun County **9:390**
Rock Run station: **20:361p**; micro crystals **9:388p**

Arizona

7 U 7 ranch, Yavapai County **15:305n**

Arkansas

Mena, Polk County (pink crystal balls) **16:150, 16:151p**

California

Champion mine, Mono County **18:137**

Georgia

Brewer mine, near Cedartown **10:48**

Indian Mountain, Polk County: **20:357p, 20:361**; see also Strengite—United States—Alabama—Indian Mountain

Indiana

Bethel Church fossil dig, Pike County (aluminian) **15:354p, 15:356**

Nevada

Northumberland mine, Nye County (white crusts) **16:41**

New Hampshire

Fletcher pegmatite, Grafton County **4:114**

New Jersey

Mullica Hill, Gloucester County (rosettes) **11:307p**

New Mexico

Phelps-Dodge mine, Grant County **20:57–58n**

Pennsylvania

Moore's Hill, Cumberland County **11:(311)**

South Dakota

Tip Top mine (white granular) **17:247n**

Tennessee

Wood mine, Cocke County **2:162p, 7:83n**

STRINGHAMITE

United States

Arizona

Christmas mine, Gila County **8:(517), 9:(113), 11:261n**

Pinal County **9:(113)**

STROMEYERITE

Canada

Northwest Territories

Port Radium **20:(207)**

Czech Republic (formerly Czechoslovakia)

Příbram **19:(116), 19:122n**

Namibia

Tsumeb (grains) **8:T33n**

Switzerland

Cavradi-Schlucht, Graubünden (brochantite and malachite after) **18:432n**

United States

Arizona

Campbell shaft, Bisbee district (blades) **12:314**

Cole shaft, Bisbee district **12:314n**

Junction shaft, Bisbee district **12:314n**

Magma mine, Pinal County **14:(82)**

California

Morning Star mine, Alpine County **22:(39)**

Zaca mine, Alpine County **22:(39)**

Colorado

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

Red Mountain district, Ouray County **10:359n**

New Mexico

Hansonburg district, Socorro County **20:(35)**

STRONTIANITE

Austria

Bleiberg district **17:367**

Oberdorf an der Laming mine, Styria: **17:110n**; crystals to 8 cm **9:134**

Brazil

São Paulo

Jacupiranga mine (2 mm globules) **15:266**

Canada

Québec

Francon quarry **9:105p, 9:106p, 17:(339)**

Mt. St-Hilaire (tabular, acicular) **21:341**

Poudrette quarry **19:334n**

England

Leicestershire

British Gypsum mine, Barrow-upon-Soar **20:395**

Italy

Tuscany

Boccheggiano mine **10:291**

Carrara region **18:285**

La Facciata quarry **18:285p**

Poland

Machow mine, near Tarnobrzeg (micro acicular) **23:32**

Scotland

Strathclyde

Muirshiel mine (twinned, to 3 mm) **22:390n**

Strathclyde/Dumfries and Galloway

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

Switzerland

Trimbach, Solothurn (micro) **6:307p**

United States

Colorado

Koehler tunnel, San Juan County **10:359n**

Kentucky

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

Maryland

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

New Jersey

Franklin mine **10:163**

Pennsylvania

Eight localities listed **7:69–71h,p,q**

Showalter quarry, Lancaster County **2:211n**

Wisconsin

Vulcan quarry, Racine County (micro) **25:381n**

STRONTIOJOAQUINITE

United States

California

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

STRUNZITE

In pegmatite environments **4:116**

Numerous world localities **4:119**

Brazil

Minas Gerais

Conselheiro Pena **24:385**

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

Galiléia **20:394**

Zé Berto mine, near Linópolis **14:236**

United States

Alabama

Williams pegmatites, Coosa County (acicular) **6:71–72**

Maine

Newry area **6:201–202**

New Hampshire

Palermo mine **5:277**

New Jersey

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

South Dakota

Tip Top mine **17:247**

STRUVITE

Crystals found in a tin of salmon **2:37–38**

Australia

Victoria

Skipton Cave, near Ballarat **9:(113)**

United States

California

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

STUDTITE

See also *Metastudtite*

Zaire

Shaba **9:33**

Shinkolobwe mine **20:286**

Swambo mine **20:(286)**

STURMANITE

Namibia

Tsumeb (possibly from Kuruman, RSA) **17:392**

South Africa

Cape Province

Kalahari manganese field: ettringite-like, poss. sturmanite and/or charlesite **14:387p**; some id as ettringite or charlesite **22:292–293h,d,c, 22:296q**

GENERAL INDEX

- N'Chwaning mine, near Kuruman **18**:(368), **19**:121n, **19**:272n, **19**:336p, **19**:338n
 N'Chwaning #2 mine: **16**:148p; crystals to 14.5 cm **22**:291p, **22**:292
 Wessels mine (crystals to 4 cm) **22**:292
- “STURTITE”
- Species status uncertain*
- Australia**
 New South Wales
 Broken Hill **7**:29n
-
- STÜTZITE
- United States**
 Arizona
 Campbell shaft, Bisbee (coatings) **24**:433n
-
- SUGILITE
- Canada**
 Québec
 Mt. St-Hilaire (crude prisms to 1 cm) **21**:341
 Poudrette quarry **21**:(486)
- Japan**
 Iwagi-gun, Ehime-ken **8**:(517)
- South Africa**
 Cape province
 N'Chwaning mine **18**:(368), **19**:338n
 Wessels mine: **18**:(193); massive, prismatic to 2 cm, micros and phantoms in quartz **22**:293, **22**:294p
-
- SULFOBORITE
- Kazakhstan (formerly USSR)**
 Lake Inder (1 cm crystals) **21**:(492)
-
- SULFOSALT MINERALOGY
- Madoc, Ontario sulfosalt occurrence **13**:93–100
-
- SULFUR
- Australia**
 New South Wales
 Kintore opencut, Broken Hill **19**:(428)
 Queensland
 Mt. Isa mine (gudmundite after) **19**:481
- Austria**
 Bleiberg district (small hemispheres) **17**:367
- Brazil**
 Locality not specified (powder replacing pyrite crystals in quartz) **11**:99–100p
 Minas Gerais
 Córrego do Urucum pegmatite (rare coatings) **17**:313
 Énio pegmatite, near Galiléia (coatings) **12**:69n
 Paraíba
 Alto Benedito pegmatite (with pyrite, schorl) **22**:185n
- Chile**
 Chuquicamata (minute complex crystals) **9**:323
- Costa Rica**
 Turriabla volcano **18**:365n
- England**
 Derby
 Dene quarry (micro crystals) **14**:16
 Hazlebadge **14**:(16)
- France**
 Les Malines mine, Gard (tabular to 7 cm) **23**:434n
- Germany**
 Rheinland-Pfalz
 Friedrichsseggen mine, Ems district (minute complex crystals) **15**:343
- Italy**
 Emilia-Romagna
 Perticara (clear 2.5 cm crystals) **8**:59
 Sicily
 Agrigento area (gemmy euhedral to 5 cm) **10**:179
 Girgenti (Bement specimen) **21**:53p
- Tuscany
 Boccheggiano and Niccioleta mines (elongated to 1.5 cm) **10**:285p, **10**:291
 Carrara region **18**:268c,d
 La Facciata quarry **18**:273p
 Pereta mine (crystals to 4 mm) **15**:25
- Macedonia (formerly Yugoslavia)**
 Allchar (micro crystals) **24**:445d
- Mexico**
 Baja California
 San Felipe (near) (gemmy crystals to 2 cm) **25**:62, **25**:63p
 Chihuahua
 Los Lamentos (massive; small crystals) **11**:286
- Namibia**
 Tsumeb (coatings) **8**:T33n
- Poland**
 Machow mine, Tarnobrzeg **20**:(398), **23**:29–32c,p,q
 Tarnobrzeg (in calcite) **10**:123
- Ukraine (formerly USSR)**
 Lvov (near) (euhedral to 3 cm) **21**:174
 Yavokskoye, near Lvov (gemmy to 2.75 cm) **24**:224p, **24**:226
- United States**
 Arizona
 Campbell shaft, Bisbee district (post-fire crystals to 5 mm) **12**:314
 Junction shaft, Bisbee district **12**:(314)
 Lavender pit, Bisbee district (earthy) **12**:314
 Mammoth mine, Pinal County (crusts) **11**:170
 New Cornelia mine, Pima County (crusts) **14**:297
 Tonopah-Belmont mine, Maricopa County **19**:143
 Wolverine shaft, Bisbee district (sandy) **12**:314
 California
 Antimony Peak, Kern County **3**:81n
 Darwin district, Inyo County (powdery) **15**:17n
 Geysers, The, Sonoma County (small crystals) **24**:351
 Hale Creek mine, Trinity County **19**:(128)
 Leviathan mine, Alpine County **22**:(36)
 Stayton district **20**:435
 Stayton mine, Stayton district **20**:435
 Colorado
 Good Hope mine, Gunnison County (massive, 1–2 m thick, auriferous) **14**:246
 San Juan County **10**:359n
 Georgia
 Graves Mountain (micro crystals; some poss. alunite) **16**:454–455
 Idaho
 Caledonia mine, Shoshone County (earthy) **12**:347
 Kentucky
 Muldraugh geode locality **23**:(424)
 Michigan
 Scofield quarry, Maybee, Monroe County **9**:36
 Nevada
 Green Prospect, Churchill County (granular; some red, selenian) **16**:73
 Outlaw mine, Nye County (massive) **22**:180
 Steamboat Springs, Washoe County (hopper crystals to 7 cm, some pinkish) **16**:26–27p, **16**:30
 Pennsylvania
 Phoenixville **20**:383d
 Texas
 Damon Mound, Brazoria County **11**:101n
 Washington
 Mt. Baker, Whatcom County (spherules in volcanic ejecta) **7**:170–171p,q
- SULPHOHALITE**
- United States**
 California
 Searles Lake (crystals to 2.5 cm) **6**:79–80c, **6**:81d
-
- SULVANITE
- Locality not specified **18**:(336)
- Australia**
 South Australia **19**:(363)
- Italy**
 Tuscany
 Canal Piccinino quarry **18**:270q,c
 Carrara region **18**:270p
 Fantiscritti quarry **18**:270q,c
- Namibia**
 Tsumeb (grains; some germanian) **8**:T33n
- United States**
 Utah
 Thorpe Hill, Tooele County (cubes to 1 cm) **21**:484n
-
- SURINAM
- Map of gold occurrences **18**:89m
-
- SURITE
- Argentina**
 Cruz del Sur mine, Rio Negro province (announced) **10**:301h,q
-
- SURSASSITE
- Switzerland**
 Tiefencastel area **10**:(122)
- United States**
 California
 Palos Verdes Hills, Los Angeles County (fibrous) **4**:290–293q
-
- SUSANNITE
- Vs. leadhillite **2**:83q
- Scotland**
 Strathclyde
 Glengonnar mine, Leadhills (1 cm crystals) **12**:246p,d
 Strathclyde/Dumfries and Galloway
 Leadhills-Wanlockhead district **12**:242, **12**:246p,d
- United States**
 Arizona
 Mammoth mine, Pinal County (leadhillite prob. after) **11**:174, **11**:175
-
- SUSSEXITE
- South Africa**
 Cape Province
 Hotazel mine (velvety) **22**:293
- United States**
 New Jersey
 Sterling Hill **19**:274n
-
- SVANBERGITE
- Brazil**
 Bahia
 Brumado mine (3 mm rhombs; some “wood-houseite” id as) **23**:432n
 Minas Gerais
 Tejuca mine, Diamantina (“hartite”) **2**:10n
- Sweden**
 Horrsjöberget **8**:(517)
- United States**
 California
 Cargo Muchaco Mountains, Imperial County (pseudo-cubic to 2 mm) **2**:225
 Champion mine, Mono County (micro crystals) **8**:480
 Georgia
 Graves Mountain **16**:455

GENERAL INDEX

- Maine
Bell pit, Oxford County (id as goyazite) **6:203**
- Nevada
Dover mine, Mineral County **16:(153)**
-
- SWAMBOITE**
- United States**
Utah
White Canyon district, San Juan County **22:384n**
- Zaire**
Swambo mine **20:286p**
-
- SWAPPING GUIDELINES**
- Microminerals **11:43–46, 14:51**
-
- SWEDEN**
- Bergslagen district, Värmland **22:48–51p,g,h**
Bjertnes, Krøderø **9:58s**
Boliden, Västerbotten **8:517s, 9:58, 13:359h**
Borlänge, Kopparberg **22:48s**
Brattfors mine, near Nordmark, Värmland **22:51h**
Brestovskog **15:38s**
Brunsjogruvan **9:113s**
Eastern Moss mine, near Nordmark, Värmland **22:51h**
Falun, Kopparberg **9:114s, 13:359h, 13:363p, 19:149s**
Garpenberg **22:48**
Håkansboda, between Ståra and Stråssa, Bergslagen district, Västmanland **3:38–39h,g,p, 23:277s**
Hålsjöberg, Värmland, and Hökensås, Västergötland, phosphate genesis in kyanite deposits **23:436g**
Harstigen, east of Persberg, Värmland **1:164–165g,h,m, 22:49h**
Harstig, Värmland **8:517s**
Horrjoberget **8:517s**
Jakobsberg, south of Nordmark, Värmland **1:165–166m,h,g, 10:47s**
Långban district, Värmland: **2:83s, 3:6s, 3:187s, 4:27s, 8:517s, 9:41s, 9:58s, 9:113s, 10:47s, 10:215–217h,p, 10:248s, 13:238s, 14:203s, 16:159s, 18:368s, 19:295h, 22:49–51p,h**; Ramsorten drift **1:125s**; table of 183 species, summary of localities **1:154–172h,g,m**; see also Sweden—Långban mines
Långban mines, Värmland: **1:165–168h,g,m**; see also Sweden—Långban district
Leveäniemi iron mine, Svappavaara, Norrbotten **18:367s, 18:368s, 19:127, 20:343–346g,h,m,p,s, 22:48h,s**
Lustigkulla mine **9:113s**
Malmberget mine, near Gällivare, Lappland **22:47, 22:393, 23:277s**
Mineral Collector's Scandinavia, A: 1990 **22:43–52**
Mineral-Fundstellen: Skandinavien **7:315b**
Nordmark (Eastern Moss and Brattfors mines), Värmland **22:51h**
Nordmarks Odalfält, near Nordmark, Värmland **1:165–166g,h,m**
Norra Karr, Ostergötland **9:113s**
Norrö **4:109s, 4:112s**
Pajsberg, east of Persberg, Värmland **1:164–165g,h,m**
Riddarhyttan, Västmanland **19:294h**
Sjö mine, southeast of Grythyttan, Värmland **1:165–166m,h,g**
Skrikerum **19:295s**
Stripasen **8:517s**
Svappavaara (see Leveäniemi iron mine)
Tunaberg **19:149s**
Ultevis, Norrbotten **8:517s**
Utö, Stockholm **19:295h**
- Värmland (locality not specified) **15:45s**
Varuträsk **4:109s, 4:112s**
Westana, Schonen **9:113s**
Ytterby, Resarö (island), Stockholm **2:136–138h,m,p,g, 19:294h, 22:45**
-
- SWINEFORDITE**
- United States**
North Carolina
Kings Mountain (resembles petroleum jelly when hydrated) **6:252–253**
-
- SWITZERITE**
- Australia**
South Australia
Iron Monarch pit, Iron Knob (2 mm platy) **22:387n**
Reaphook Hill, Flinders Range: **9:(113)**; powder **9:23**
Western Australia
Locality not specified **9:(113)**
- Canada**
Yukon
Big Fish River area (minute radial sprays) **23:Y36q**
- United States**
Arizona
7 U 7 ranch, Yavapai County **15:305n**
North Carolina
Foote mine: **1:(92), 4:123**; formerly UK#1 **4:138n**
South Dakota
Tip Top mine **17:240q, 17:247–248, 17:251**
-
- SWITZERLAND**
- Alp Binneltini (Alp Lercheltini), east of Binn, Valais **3:14, 9:133s**
Alpe Parsettens, Val d'Err, near Tinzen, Graubünden **11:15s**
Alpine cleft occurrences **19:126b**
Alpine rare-earth mineral localities **8:287–292**
Alp Lercheltini (see Alp Binneltini)
Alp-Taspegn, Graubünden **15:38s**
Alter Bach, Valais **6:304s**
Andermatt, Uri **8:291s**
Arisdorf, near Basel, Jura Mountains **6:306s**
Bedretto Valley, Ticino **22:393s**
Berg Sroyi, near Sant Maria Lukmanier, Graubünden **11:15s**
Binntal (also Binn, Binntales, Binnatal, Binnental, Binnenthal), Valais **2:187s, 8:287, 9:133s, 19:126b**
Camperio, Ticino **8:291s**
Cavradischlucht (Cavradi Gorge), St. Gotthard region, Graubünden **9:132s, 18:432s, 19:338s**
Cervandonne (Cherbadung) area, Binntal, Valais **10:251s, 17:137s, 22:47s**
Churfirnten range, St. Gallen **10:122**
Eggishden (Mt. Eggishorn?), Valais **23:88s**
Falotta Grisons (Graubünden) **10:251s**
Felsberg district, Graubünden **13:363h**
Felsertal **19:114s**
Fibbia, St. Gotthard, Uri **6:303s, 9:132s**
Gletsch, Wallis **9:57s**
Goldene Sonne mine, Felsberg district, Graubünden **13:363h,s**
Göscheneralp region, Uri **9:132s**
Gotthard tunnels **19:126b**
Grapsteigberg, Graubünden **9:57s**
Grimsel Pass, Bern/Valais **19:338s**
Grimsel region, Ticino **9:316s**
Grubhorn, Baltschiederthal, Valais **8:291s**
Guide to the Minerals of Switzerland, A **2:139b**
Herznach iron mine, Argovian Jura, Jura Mountains **6:307s**
Hohtenn, Valais **20:463s**
La Bianca, Grisons (Graubünden) **6:304s, 6:309s, 8:288s, 8:291s**
- Lengenbach quarry, Binntal, Valais **2:259s, 6:305s, 8:272–274h,p, 8:275–281h,g,m, 9:132, 14:364s, 16:345s, 18:368s, 18:402s, 25:140s, 25:305–306b**
- Lentatal, Adula Gruppe **8:291s**
Lercheltini **19:16s**
Lodrino, Ticino **8:288s, 23:88s**
Lukmanier Pass (Passo Lucomagno), Ticino **18:144s**
Lungen Valley, Maderane **6:309s**
Maderanertal, "northern calcerous Alps" **8:287, 10:122**
Mangan Grube, Falletta, Graubünden **22:393s**
Medels, Graubünden **11:15s**
Minerali Alpini e Prealpini **7:315–317b**
Mineralogie der Grube Lengenbach, Binntal, Wallis **25:305–306b**
Mineral shows **6:207–208**
Mittal, Valais **20:463s**
Mont Blanc region, Valais **9:132s**
Monte Prosa, St. Gotthard **8:288s**
Oberaar power plant, Grimsel Pass **8:288s**
Obersaxen, Grisons (Graubünden) **6:308s**
Ochsenbach, Binntal, Valais **8:288s**
Ochsenfeld, Binntal, Valais **8:288s**
Ovi district Scimfüss, near Gotthard Pass **8:288s**
Passo Lucomagno (see Lukmanier Pass)
Pez Ault, Graubünden **8:59s**
Piz Blas, near Sedrun, Tavetsch Valley **8:287, 8:288**
Piz Lucendro, Gotthard massif **8:291s, 10:122s**
Piz Rondadura, Grisons (Graubünden) **6:308–309s, 8:288s**
Piz Rotondo, Val Bedretto, Ticino **8:288s, 8:291s**
Piz Vallatcha, near Scopi, Grisons (Graubünden) **11:15s**
Ried, Reusstal, Uri **8:291s**
Ritter pass, Binntal, Valais **10:122s**
St. Gotthard, Uri **15:146s**
Sankt Jakob, Uri **11:15s**
Schykehle, Uri **6:308s**
Scopi, Mittelrheintal, Graubünden **11:15s**
Sedrun area, Tavetsch Valley **8:287**
Simplon Pass, Valais **21:491s**
Sontga Brida, near Sedrun, Tavetsch Valley **8:287**
Stegia, Val Medal **15:114s**
Tessin (see Ticino)
Tête Noir, near Trient, Valais **8:291s**
Tiefencastel area **10:122s**
Tiefengletscher quartz grotto, Uri **15:253–255p,h**
Trimbach, Solothurn **6:307s**
Val Bedretto, Ticino **9:57–58, 10:122s, 18:159s**
Val Blenio, Ticino **8:291s**
Val Cavradi, Disentis-Munster, Graubünden **23:436s**
Val Curnera, Gotthard Massif, Graubünden **1:98–100g, 18:404s**
Val d'Jittiez, southern Valais **10:122s**
Val Nalps, Tavetsch **8:291s**
Wallis (see Valais)
Ziggenstock, Grimsel, Bern/Valais **20:146s**
-
- "SYCHNODYMITE"
- See Carrollite*
-
- SYLVANITE**
- Locality not specified: **13:392q**; gold after **13:399n**
Seventeen world localities listed **13:396h**
- Australia**
Western Australia
Kalgoorlie **18:(28)**
Koolgardie **13:(396)**
Mulgabbie **13:(396)**
- Fiji**
Emperor mine, Viti Levu (1 cm crystals) **8:391**

GENERAL INDEX

- Romania**
 Baia de Arieș (formerly Offenbánya) **13**:396–399d,h,p,q
 Săcărâmb (formerly Nagyág) **13**:(374), **13**:396–399d,h,p,q
- United States**
 Arizona
 Campbell shaft, Bisbee **24**:433n
 California
 Golden Rule mine **18**:64
 Rawhide mine **18**:64
 Sugarman-Nigger mine, Sonora **18**:64
 Colorado
 Bassick mine, Custer County (columnar) **7**:274
 Boulder **13**:399
 Cresson mine **16**:235–236n
 Cripple Creek **13**:397d, **13**:399
 San Miguel County **10**:359n
 Oregon
 Cornucopia district **13**:(396)
-
- SYLVITE**
- Germany**
 Magdeburg
 Stassfurt (6 cm octahedral) **15**:250–251n
- United States**
 California
 Salton Sea, Imperial County (octahedral to 7.5 cm) **13**:42p
-
- SYMPLESITE**
- Australia**
 Tasmania
 Magnet mine **19**:(383)
- Czech Republic (formerly Czechoslovakia)**
 Třebesko deposit (T-1 vein) (5 mm radial aggregates) **22**:212
- Greece**
 Laurium **17**:187
- United States**
 California
 Kalkar quarry, Santa Cruz County **17**:324p
-
- SYMPOSIA**
- Friends of Mineralogy Mineralogical Symposia, first 13 listed **23**:79
-
- SYNADELPHITE**
- Sweden**
 Nordmarks Odalfält mines, Värmland **1**:165n
- United States**
 New Jersey
 Sterling Hill mine **13**:(37)
-
- SYNCHYSITE-(Ce), -(Nd), -(Y)**
- Seven Alpine localities **8**:288, **8**:289p
- Austria**
 Hopffeldboden, Salzburg **17**:(106)
 Kaiserer and Lohninger quarries, Salzburg **13**:172p, **13**:173n
- Canada**
 Québec
 Mt. St-Hilaire: **10**:103, **13**:244n; synchysite-(Ce), tabular to 4 mm, some intergrown with parisite **21**:331, **21**:332p
- France**
 Trimouns mine, Ariège (crystals to 2 cm) **23**:434n
- Greenland**
 Narssárssuk pegmatite (synchysite-(Ce); crystals to 6 cm) **24**:G45–47d,c
- Norway**
 Kongsberg **17**:(35)
 Oslo region **3**:10p
- United States**
 California
 Jensen quarry, Riverside County **15**:285c,p, **15**:289n
 Michigan
 White Pine mine, Ontonagon County (synchysite-(Ce), traces) **23**:M68
-
- SYNGENITE**
- Germany**
 Niedersachsen
 Laliwerk Sigmundshal, Bokeloh bei Wunstorf **8**:390n
-
- SZAIBELYITE**
- Canada**
 Ontario
 S. Baptiste Lake Road, near Bancroft: **13**:80n; aggregates to 5 mm **13**:226
-
- SZENICSITE**
- Pronunciation **25**:301–302
- Chile**
 Tierra Amarilla, Atacama (newly described; bladed to 3 cm) **25**:76h,q,c
-
- SZOMOLNOKITE**
- Australia**
 Queensland
 Mt. Isa mine (unconfirmed) **19**:481
- Canada**
 Québec
 Mt. St-Hilaire (thin crusts) **21**:341n
- United States**
 Arizona
 Lavender pit, Bisbee district (warty crusts) **12**:314

GENERAL INDEX

TAAFFEITE

Australia

South Australia
Mt. Painter region **22:343–344, 22:347**

China

Sianghwaling, Hunan **22:343–347d,c**

Russia (formerly USSR)

Pitkäranta district, Karelia (epitactic on spinel)
22:343–347c

Sri Lanka

Locality not specified **22:343–347p,c,d,q**

TACHARANITE

France

Espallion, Aveyrun (on phillipsite) **19:337n**

TADZHIKITE-(Ce)

Canada

Québec
Mt. St-Hilaire: formerly UK#39 **18:364n**;
tadzhikite, rosettes to 3 mm **21:342p**

TAENIOLITE

Canada

Québec
Mt. St-Hilaire: **18:364n**; lamellae, prisms to
1 cm **21:342**

Greenland

Narssárssuk **5:123**

Russia (formerly USSR)

Mt. Nepkha, Kola Peninsula **14:(39)**

United States

Arkansas
Magnet Cove, Hot Spring County **14:(39)**
California
Coyote Peak, Humboldt County (3 mm
euhedral) **14:39–40q**

TAIWAN

Feng Tien mine, Feng Tien Village, Shou Feng
Shiang, Hualien County **10:41–42**

TAJKISTAN

Formerly USSR

Dara-i-Pioz, Tien-Shan **22:393s**
Dara-Pierz (= Dara-i-Pioz?) **21:492s**
Kadamdzhaj **21:492s**
Kukh-i-Lal, Pamir Mountains **24:226s**
Pamir Mountains **24:389s**
Pozar mine (uncertain locality) **22:221s**

TAKOVITE

Australia

Western Australia
Carr Boyd deposit (“eardleyite”) **9:(113)**
132 North deposit, Widgiemooltha district
(coatings; radial grains) **25:290**

TALC

Toxicity **11:10**

Australia

Queensland
Mt. Isa mine (some after dolomite) **19:484**

Brazil

Bahia
Brumado mine: crystals **9:204p, 9:205**; flat
crystals to several cm **23:274p, 23:276**
Minas Gerais
Ouro Preto region **20:228**

Canada

Québec
Mt. St-Hilaire (fibrous) **2:142**

Italy

Liguria
Val Gave (yellowish, “gavite”) **10:86**

South Africa

Cape Province
Mamatwan mine (acicular; opal after some)
9:152

United States

Arizona
Boras and Spray shafts, Bisbee district
12:314n
California
Jensen quarry, Riverside County **15:289n**
Kalkar quarry, Santa Cruz County (some
containing pyrite cubes) **17:325**
Colorado
Italian Mountain area, Gunnison County
15:87n
Massachusetts
Chester emery mines **9:241**
Michigan
Ropes mine, Marquette County **17:121n**
Montana
Yellowstone mine, Madison County (with
black dendrites) **23:424**
New York
Sterling mine, Jefferson County (iron-rich)
15:211–213p,q
Pennsylvania
French Creek mine **25:(119)**
Pennsylvania/Maryland
Line pit, State Line district **12:154**
Vermont
Named state’s “official mineral” **23:455**
Washington
Rainy mine, King County (after anthophyllite,
to 2 cm) **23:428**

TALMESSITE

Canada

British Columbia
Criss Creek near Savona **8:(517)**

Morocco

Bou Azzer (micro crystals) **9:70, 9:72**

United States

Utah
Gold Hill mine (rosettes) **24:17, 24:18p**

TAMARUGITE

Chile

Chuquicamata **9:328**

Italy

Tuscany
Cetine mine **15:32, 15:33p**

TANTALITE

*See also Columbite-Tantalite Series; Ferro-, Man-
gano-, Stibio-, and Yttrotantalite*

Afghanistan

Koona Valley **19:272n**
Locality not specified **20:(397)**

Brazil

Paraíba
Alto Benedito pegmatite (small tabular)
22:185n

United States

Maine
Mt. Mica **16:(372)**
New Mexico
Harding mine (blades to 3.3 cm) **8:123**

TANTEUXENITE-(Y)

Italy

Lombardy
Craveggia (crystals to 5 cm) **8:290p, 8:291–
292h**
Four localities **8:291**

Switzerland

Monti di Gorduno, Ticino **8:291**

TANZANIA

Arusha **10:31s, 20:145s, 23:436s**
Kenyan border (near) **11:321s**
Locality not specified **22:217s**
Merelani, Arusha **23:499h**

Moro Goro **21:256s**
Moshi **20:398s**
Mpwa-Mpwa **23:268s**

“TANZANITE”

See Zoisite

TAPIOLITE SERIES

Ferrotapiolite-manganotapiolite

Brazil

Minas Gerais
Córrego Frio mine, near Linópolis (1 cm
crystals) **14:233**

United States

Colorado
Pikes Peak batholith **10:377**

TARAMELLITE

Canada

Yukon
Gunn claim, near Macmillan Pass **17:(340)**

TARNAKITE

Australia

Victoria
Skipton Cave, near Ballarat **19:361h**
Western Australia
Jurien **9:(113)**

TARBUTTITE

Australia

New South Wales
Kintore opencut, Broken Hill **19:433q**
South Australia
Reaphook Hill, Flinders Range: **12:(105)**;
micro crystals **9:22, 9:23p**

Zambia

Broken Hill: **5:264, 11:319, 12:394n**; crystals
to 2 cm **11:343–344p,d,c,h**

“TARNOWITZITE”

See Aragonite

“TAVISTOCKITE”

Discredited **1:80h**

TAVORITE

In pegmatite environments **4:122**
Numerous world localities **4:122**

Brazil

Minas Gerais
Énio pegmatite, near Galiléia (patches) **12:72**
Sapucaia area **2:(12)**

United States

South Dakota
Tip Top mine **17:240q, 17:248**

“TAYLORITE”

See Arcanite

TAZHERANITE

Brazil

São Paulo
Jacupiranga mine (micro crystals) **15:269**

TEALLITE

Bolivia

Montserrat mines, Oruro Dept. **5:164n**
Oruro district (several localities) **6:133**
Poopó **8:(390)**

TECHNOLOGY IN PROSPECTING
AND COLLECTING

Computerized collection cataloguing **25:82–83**
Dogs trained to prospect for sulfides **3:89**
Electron microscopes (scanning and transmission)
and electron microprobes **3:151–164**
Global positioning system (GPS) **24:258**
Ground-penetrating radar **20:322**
Scheelite found by x-raying rocks **4:41**
Turquoise may be associated with metatorbernite
located by radiometry **4:77**

GENERAL INDEX

TEEPLEITE

United States

California
Searles Lake (crystals to 5 cm) **6:80–81c,d**

TEINEITE

United States

Arizona
Cole shaft, Bisbee district: graemite after **12:304p**; 1 cm crystals **12:314**
Shattuck shaft, Bisbee district (graemite after) **24:429, 24:433**
New Mexico
Lone Pine mine, Catron County (rajite after) **20:10**

TELLURANTIMONY

Canada

Québec
Mattagami Lake mine, Mattagami **8:(517), 9:(113)**

TELLURITE

Mexico

Sonora
Moctezuma mine (crystals to 2 cm) **1:41**

United States

Arizona
Campbell shaft, Bisbee **24:433n**

TELLURIUM

Canada

British Columbia
Grotto group, southwest of Hazelton (prismatic to 3 mm) **2:206–207**

Mexico

Sonora
Moctezuma mine (massive; also 19 Te-bearing species) **1:41**

United States

Arizona
Campbell shaft, Bisbee (grains) **24:433n**
Contention mine, Tombstone district **11:253**
Tombstone district, Cochise County (tellurite and tellurate minerals) **11:253–256**

California

Monitor-Mogul district, Alpine County (unspecified telluride minerals; unconfirmed) **22:39**

Tuolumne County **18:64**

Colorado

Ballarat district, Boulder County (auriferous) **13:(398)**

Good Hope mine, Gunnison County (some crystalline) **14:246**

Mt. Sierra Blanca, San Luis County **20:(11)**
Whitehorn, Fremont County **20:(11)**

New Mexico

Little Mildred mine, Hidalgo County **20:11**

Uzbekistan (formerly USSR)

Kochoulak (masses, crystals to 7 cm) **24:52**

TELLUROBISMUTHITE

Sweden

Boliden, Västerbotten **8:(517)**

United States

Arizona
Campbell shaft, Bisbee **24:434n**

Georgia

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

TELLUROPALLADINITE

United States

Montana
Stillwater complex (announced) **11:111h,q**

TENGERITE-(Y)

Canada

Québec
Evans-Lou pegmatite **3:73p**

United States

Texas
Clear Creek pegmatite, Burnet County (coatings) **8:90**

TENNANTITE

Crystal drawings, tetrahedrite-tennantite **25:75d**
Possible, impossible, improbable endmembers of tetrahedrite group (abstract) **25:74**
Tennantite-pyrite epitaxy **4:159–163**

Brazil

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

Canada

British Columbia
Rocher Déboulé mine, near Hazelton **15:(91)**

Nova Scotia

Dresser Industries quarry, Walton (“tetrahedrite” id as) **4:84–85**

Chile

Chuquicamata **9:(323)**

Germany

Mackenheim, Odenwald (brilliant crystals to 1 cm) **8:305p**

Rheinland-Pfalz

Friedrichsseggen mine **15:(342)**

Italy

Tuscany
Buca della Vena mine (tetrahedrite-tennantite) **17:266n**

Kazakhstan (formerly USSR)

Dzhezkazgan (12 mm crystal) **24:224p, 24:226n**

Mexico

Chihuahua

Naica: locality corrected to El Cobre, Zacatecas **3:229**; zoned tennantite-tetrahedrite, crystals to 2.5 cm **3:115–119p,q**

Zacatecas

El Cobre **3:115–119p,q, 3:229**

Namibia

Tsumeb: **13:149–150p,q, 19:211n, 19:337n**; coated with acicular mimetite **10:113, 10:115p**; crystals to 30 cm, malachite, azurite after **8:T33, 8:T50, 8:T59–60p, 8:T81p, 8:T115p**; jarosite after **8:T26n**

Norway

Kongsberg **17:(35)**

Peru

Julcani district (tennantite-tetrahedrite; crystals to 3.5 cm) **5:218**

Quiruvilca: epitaxial on pyrite **4:159–163p,d,q**; large octahedral **4:140**

Russia (formerly USSR)

Karabach, Ural Mountains **23:(433)**

Switzerland

Lengenbach quarry: **8:277p**; 1 mm crystal **6:305p**

United States

Arizona

Campbell shaft, Bisbee district (grains) **12:314**
Denn shaft, Bisbee district (massive) **12:314**

Magma mine **14:(82)**

New Cornelia mine, Pima County **14:297**

79 mine (in polished section) **3:264**

California

Darwin mines, Inyo County **15:(17)**

Rawhide mine, Tuolumne County **18:(64)**

Colorado

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

Red Mountain district, Ouray County **10:359n**

Silverton area, San Miguel County (tetrahedrite-tennantite; skeletal) **23:424n**

New Jersey

Sterling mine (massive) **25:99p, 25:100–101p**

TENNESSEE

Bibliography of locality literature **18:224–225**

Bibliography of mineralogy literature **10:26**

Boyd mine, Ducktown, Polk County **3:273**

Elmwood mine, near Carthage, Smith County **7:186–187h, 9:36s, 9:213–218h,m,g, 12:47h, 13:32s, 14:370s, 18:361s, 20:391s**

Gordonsville mine, Smith County **9:213–214h,m,g**

Jefferson City, Jefferson County **3:90–91g,s**

Mascot-Jefferson City district, Knox and Jefferson counties **3:90–91g,h**

Sweetwater, Monroe County **14:367s**

Wood mine, Del Rio district, Burnett Gap, Cocke County **2:162, 7:83h**

TENORITE

Australia

Queensland

Mt. Glorious mine **19:488**

Mt. Isa mine **19:484**

Mt. Oxide mine **19:486**

South Australia

Moonta mines **19:(412)**

Western Australia

Anticline prospect, Ashburton Downs (patches) **24:216**

Canada

British Columbia

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

Chile

Chuquicamata **9:324**

England

Derby

Watersaw Rake **14:(16)**

Germany

Rheinland-Pfalz

Friedrichsseggen mine (powdery) **15:342**

Namibia

Tsumeb (thin tabular) **8:T33n**

New Zealand

Tui mine (earthy) **6:30n**

United States

Arizona

Bisbee district **12:314**

Magma mine **14:(82)**

Mammoth mine, Pinal County (unconfirmed) **11:170**

New Cornelia mine, Pima County (massive; some after “chalco-trichite” cuprite) **14:297**

79 mine (“melaconite”) **3:251**

California

Monitor-Mogul district, Alpine County **22:(39)**

Colorado

New York City lode, San Juan County **10:359n**

Michigan

Keweenaw Peninsula (numerous localities) (coatings, massive) **23:M68–69**

Nevada

Killie mine, Elko County **18:418**

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

New Mexico

Harding mine **8:124n**

Magdalena district, Socorro County **20:2**

Pennsylvania

Phoenixville **20:383**

TEPHROITE

Australia

New South Wales

Broken Hill (massive; also ferroan zincian “roeperite”; ferroan “knebelite”) **7:28–29**

GENERAL INDEX

- Poland**
Machow mine, near Tarnobrzeg (massive; crystals to 8 cm) **23:30–32p**
- South Africa**
Cape Province
Wessels mine: crystals to 1.5 cm **24:393n**; 2 cm crystals **22:293p**
- United States**
Colorado
Sunnyside (American Tunnel) mine, San Juan County **10:359n**
New Jersey
Franklin (“glaucochroite” id as; micro crystals) **5:35–36c**, **5:37d**
North Carolina
Bald Knob, Alleghany County (grains, some “manganknebelite”) **12:170q**
Bald Knob (southeast of), Alleghany County **2:43**
-
- TERLINGUAITE**
- United States**
Nevada
Humboldt County **9:113n**
Texas
Terlingua district: micro crystals **8:20–21d,p**; powdery, minute crystals **21:232–233d**
-
- TERSKITE**
- Canada**
Québec
Mt. St-Hilaire: formerly UK#49 **18:364n**; powdery, after lovozerite **21:342**
-
- TETRA-AURICUPRIDE**
- Locality not specified **13:392–393q,h**
Two world localities listed **13:(393)**
-
- TETRADYMITITE**
- Canada**
British Columbia
Glacier Gulch South Side Group, near Smithers: **15:(90)**; most id as joseite- β **2:204**
Yukon
Sonora Gulch, Hayes Creek (gold nuggets with) **24:385n**
- England**
Cumbria
Carrock Fell **1:(84)**
- United States**
Arizona
Campbell shaft, Bisbee **24:434n**
California
Thompson mine, Inyo County (grains) **15:17n**
Colorado
Jonathan mine, Ouray County **7:276n**, **10:359n**
Kokomo, Summit County **7:275–276n**
-
- TETRAHEDRITE**
- Crystal drawings, tetrahedrite-tennantite **25:75d**
Possible, impossible, improbable endmembers of tetrahedrite group (abstract) **25:74**
- Australia**
Northern Territory
Mt. Bonnie mine **19:(444)**
Queensland
Mt. Isa mine **19:484**
Victoria
Glen Wills **18:(28)**
Steiglitz **18:(28)**
- Bolivia**
Itos and San José mines, Oruro (crystals to 1 cm) **6:133**
- Canada**
British Columbia
Mt. Washington mine, Vancouver Island **15:(90)**
- Northwest Territories
Port Radium **20:(207)**
- Nova Scotia
Dresser Industries quarry, Walton: id as tennantite **4:84–85**; micro euhedral **3:204**
- Ontario
Silver Islet mine **17:(59)**
- Québec
Mt. St-Hilaire (granular) **21:342**
- Czech Republic**
Bohutín district, Příbram district **12:162n,p**
- England**
Derby
Mill Close mine, Wensley **14:(17)**
- France**
Allevard, Isère **9:185p**
Les Farges mine, Corrèze **13:(267)**
Saint-Pons (near), Haute-Provence (masses) **24:43**
- Germany**
Obersachsen
Bräunsdorf, Freiberg district **17:(18)**
Freiberg district **17:(18)**
Rheinland-Pfalz
Friedrichsseggen mine **15:(342)**
- Greece**
Kamaréza mine, Laurium (pyrite after 1 cm crystals) **7:117**
- Italy**
Tuscany
Boccheggiano mine (after stibnite) **10:291**
Buca della Vena mine (tetrahedrite-tennantite) **17:266n**
Calagio quarry: **18:271p**; malachite on altered **18:280p**
Carrara region (most id as colusite) **18:270–271c,q**
Fossa degli Angeli quarry **18:271**
Gioia quarry **18:271d**
La Facciata quarry **18:271**
- Mexico**
Chihuahua
Naica: locality corrected to El Cobre, Zacatecas **3:229**; zoned tennantite-tetrahedrite, crystals to 2.5 cm **3:115–119p,q**
Zacatecas
El Cobre **3:115–119p,q**, **3:229**
- Norway**
Kongsberg **17:(35)**
- Peru**
Casapalca, Junin: **7:188–189p**; crystals to 7 cm **9:36n**
Julcani district (tennantite-tetrahedrite; crystals to 3.5 cm) **5:218**
Mercedes mine, Huanzala: **20:69**; sharp crystals to 4 cm **21:175n**
Morococha, Junin Dept. (euhedral to 2 cm) **5:38c,d**
- Romania**
Kapnik (Cavnic): bright euhedral to 3 cm **22:217**, **22:218p**; 2.5 cm crystals on rhodochrosite **17:391–392p**
- Spain**
Eugui quarries, Navarra (crystals to 4 mm) **22:141n**
Hiendelaencina district, Guadalajara **23:249**
- United States**
Arizona
Armada mine, Santa Cruz County **16:152**, **16:153p**
Campbell shaft, Bisbee district (blebs) **12:314**
Cole shaft, Bisbee district **12:(314)**
Magma mine **14:(82)**
Mammoth mine, Pinal County (micro crystals) **11:161**
New Cornelia mine, Pima County **14:(297)**
- Oliver shaft, Bisbee district (blebs) **12:314**
79 mine, Gila County **3:250n**
Tombstone district (4 mines), Cochise County **11:251n**
- California
Darwin mines, Inyo County **15:17n**
Golden Rule mine, Tuolumne County (massive) **18:64**
Harvard mine, Tuolumne County (grains) **18:64**
Kalkar quarry, Santa Cruz County (masses and grains) **17:321**
Monitor-Mogul district, Alpine County (prob. id as freiberгите) **22:36**
- Colorado
Aztec mine, Dolores County **16:(213)**
Bachelor mine, Ouray County **14:(142)**
Bulldog mine, Creede **10:331**
Enterprise mine, Rico district **16:213n**
Gold Anchor mine, Rico district **16:(213)**
Home Sweet Home (Sweet Home) mine, Park County **10:337**
Iron Draw mine, Rico district **16:(213)**
Johnny Bull mine, Rico district **16:(213)**
Kittie Mac mine, San Juan County **7:301n**
Longfellow mine, Ouray/San Juan counties **7:299–300p**, **7:302n**, **19:99n**
National Belle mine, Ouray County **17:235p**
Rico Aspen mine, Rico district **16:213n**
San Juan Mountains **10:359n**
Silverton area, San Miguel County (tetrahedrite-tennantite; skeletal) **23:424n**
Silver Wing mine, San Juan County **7:301n**, **14:(243)**
- Idaho
Caledonia mine, Shoshone County (cuprite, others replacing) **12:344**
- Montana
Black Pine mine, Granite County: crystals to 5 cm **23:480p**; some euhedral in quartz **23:482**
- New Jersey
Sterling mine (massive) **25:100–101p**
- Utah
Daly-Judge mine, Wasatch County (sharp crystals to 2 cm) **21:257–258p**
-
- TETRANATROLITE**
- Canada**
Québec
Mt. St-Hilaire: **10:108**; powdery coatings; prismatic, fibrous **21:342**
Poudrette quarry **19:(334)**
- United States**
New Mexico
Point of Rocks quarry, Colfax County **15:154–155**
-
- TETRAWICKMANITE**
- Sweden**
Långban (tungstenian; minute crystals) **9:41p,q**
- United States**
North Carolina
Foote mine: **9:41h**; newly described, minute crystals **4:24–29h,q,p**
-
- TEXAS**
- Adamsville, Lampasas County **24:48s**
Baringer Hill quarry (east of), Burnet/Llano counties **7:182–183h,g**, **8:390s**, **9:387h,s**
Bell County **18:431s**, **19:117s**
Bibliography of locality literature **18:225**
Bibliography of mineralogy literature **10:26**
Bull Creek, northern Austin, Travis County **21:484s**
Chisos furnace, Terlingua district, Brewster County **16:55s**

GENERAL INDEX

- Clear Creek quarry, east of Baringer Hill quarry, Burnet County **7:182–183h,g**, **8:88–90m,g**, **9:39s**
 Dallas-Fort Worth airport **4:142s**
 Damon Mound, Brazoria County **11:100–101g,h**
 Locality not specified **2:260s**
 Rode Ranch pegmatite, Llano County **1:30s**
 Temple, Bell County **24:48s**
 Terlingua district, Brewster County: **8:20–22h,g,p**, **21:216ff**, **21:221–234h,g,m,p**; list of 26 localities **21:225**
 Valentine, Jeff Davis County **16:149s**, **19:333s**
 “TEXASITE”
-
- Discredited*
United States
 Colorado
 Luster pegmatite, Jefferson County (minute crystals) **9:251–252**
 Texas
 Baringer Hill quarry **8:(390)**
 Clear Creek pegmatite, Burnet County (announced; micro bladed) **9:39h,c**
-
- THADEUITE**
- Portugal**
 Panasqueira: announced **10:301h,q**; panasqueiraite with **18:(368)**
-
- THAILAND**
- Chiang Mai province **18:245s**, **18:368s**
 Phrae, Phrae province **18:368s**
-
- THALCUSITE**
- Canada**
 Québec
 Mt. St-Hilaire: micro crystals **23:429n**; minute bladed **21:342**
-
- THALENITE-(Y)**
- Norway**
 Hundholmen, Nordland: **10:124**, **22:52n**; 2.5 cm crystal **9:318**
-
- THAUMASITE**
- Canada**
 Québec
 Mt. St-Hilaire (fibrous to 5 mm) **21:342**
- France**
 Saint-Maime, Alpes de Haute Provence (ettringite-thaumasite; micro prismatic) **25:210p**
- Germany**
 Rheinland-Pfalz
 Laacher See area, Eifel district (fibrous) **8:319**
- Mexico**
 Zacatecas
 Concepcion del Oro district **3:15**, **3:42**
- Namibia**
 Tsumeb (crystals) **8:T33n**
- South Africa**
 Cape Province
 Black Rock district **20:300**
 N'Chwaning mine **19:113–114n**, **20:145**, **20:154–155p**
 N'Chwaning #2 mine: **18:431n**; sugary masses; 1 cm crystals **22:293p**
 Wessels mine: **23:277n**; sugary masses **22:293**
- United States**
 Arizona
 Iron Cap mine, Graham County **19:(87)**
 California
 Crestmore quarry, Riverside County **19:(331)**
 New Jersey
 Paterson area, Passaic County (masses; crystals) **9:175**
 Route 80 roadcut, Passaic County (masses) **1:175**
 New Mexico
 Oak Spring, Socorro County **20:23**
- Virginia
 Fairfax quarry, Fairfax County (large masses; acicular) **3:176–178p**
-
- THEFT**
- Antique micromount collection stolen **5:141–142**
 Bress, Kenneth E., silver specimen **6:92**
 Gem dealer robbed and murdered **17:146**
 Gold nugget, Montana Tech Mineral Museum (stolen and recovered) **24:317–318**
 Gold specimens especially vulnerable **18:2–3**
 Moscow Agricultural Academy Geological Museum **25:302**
 Natural History Museum (Vienna), 12/89 **21:493**
 Proctor, Keith: gem crystal specimens stolen **14:390p**; stolen specimens recovered **18:244**
 Proustite on matrix, from Czech National Museum display (1990) **22:460**
 Replicas for security or replacement purposes **12:198**
 Security risk **13:355**
 South Africa, from five museums, early 1970s **5:291**
 Sperryllite crystal stolen from South African museum **18:193**
 Union College, Schenectady, NY **6:92**, **6:140**
 University of Vermont, April 1971 **2:95**
 Yount, Victor, at Tucson, 1988 **19:210**
-
- THEISITE**
- Italy**
 Sardinia
 Sa Duchessa **19:309p**
- United States**
 Colorado
 Durango, San Juan County **19:(309)**
-
- THENARDITE**
- Crystallographic orientation **6:80–81d,c**
- Canada**
 Québec
 Mt. St-Hilaire (powder) **23:429**
- Chile**
 Chuquicamata **9:325**
 Iquique area, Tarapacá (fibrous) **15:(68)**
 Pampa Rica, Antofagasta **24:49n**
 Salar de Pintados, Tarapacá (powdery; crystals to 20 cm) **1:13–14**
- United States**
 Arizona
 Camp Verde mine, Yavapai County (post-mining stalactites) **14:88–90p**
 California
 Boron, Kern County (after mirabilite) **21:481n**
 Searles Lake (crystals to 95 mm; twins) **6:80–81c,d**
 Nevada
 Majuba Hill mine (post-mining efflorescences; “epsomite” id as) **24:175**
-
- THERMONATRITE**
- Canada**
 Québec
 Mt. St-Hilaire (powdery fillings; after unknown) **21:342**
 Poudrette quarry **18:(363)**
-
- THOMETZKITE**
- Namibia**
 Tsumeb **21:490n**
- United States**
 Utah
 Gold Hill mine (minute crystals) **24:17**, **24:18p**
-
- THOMSENOLITE**
- Cleaning iron oxides from **15:103**
- Greenland**
 Ivigtut: **2:27–28p**; crystals to 2 cm **24:G33p**, **24:G34–35d,h,c**; parallel, on cryolite **12:385p**
- Norway**
 Gjerdingen, Nordmarka region **11:85p**
- United States**
 Utah
 Spider mine, Juab County **12:385p**
-
- THOMSONITE**
- Australia**
 Victoria
 Cairns Bay/Little Bird Rock, Flinders **19:456p**
 Flinders **19:457q**
 Simmons Bay, Flinders: euhedral **12:108p**; natrolite poss. epitaxial on **17:269**, **17:270p**
 Sunderland Bluff, Phillip Island **19:456–457q**, **19:458p**
 West Head, Flinders **19:456**
- Canada**
 British Columbia
 Monte Creek, Kamloops district **19:333n**
 Yellow Lake area, near Olalla (pinkish bladed) **15:93c**
 Québec
 Jeffrey mine: on pectolite **10:75**, **10:77p**; prismatic **9:249**
 Mt. St-Hilaire: **13:(244)**; fibrous balls to 8 mm **21:342**
- Costa Rica**
 Puenta la Garita, Rio Puas **18:365**
- Denmark**
 Bordoy Island, Færoe Islands (resembling flos ferri; also bladed) **12:21**
 Eysturoy Island, Færoe Islands (bladed) **12:21**
 Færoe Islands (10 localities) (crusts, spherules) **12:21**
- Germany**
 Rheinland-Pfalz
 Laacher See area, Eifel district (fibrous) **8:325n**
 Zilsdorf quarry, Eifel region **18:356n**
- Iceland**
 Búlandsdalur (bladed to 4 mm) **12:20–21p**
 Four localities (coatings, spherules) **12:20**
- Ireland**
 Parkgate quarry, County Antrim (micro bladed) **10:174**, **10:175p**
- Italy**
 Campania
 Monte Somma, Vesuvius **17:269–270n,p**
- Northern Ireland**
 County Londonderry
 Moneymore quarry (blocky “faroelite”) **13:44**
- Russia (formerly USSR)**
 Krasnoyarsky Kray, Yakutia (bladed to 2 cm) **23:433n**
 Nidym, Tura region **24:(226)**
- Scotland**
 Strathclyde
 Loanhead quarry, Beith **20:395**, **24:392n**
- South Africa**
 Cape Province
 Wessels mine (bladed spheres) **24:368**
 Transvaal
 Palabora mine (bladed to 5 mm) **22:260–261p**
- United States**
 Arizona
 Arnett Creek, Pinal County (bow-ties) **12:44**
 Bisbee district **12:(314)**
 New Water Mountains, Yuma County **14:(119)**
 California
 Himalaya dike system, San Diego County **8:472**
 Colorado
 Italian Mountain area, Gunnison County **15:87n**
 Table Mountain, Jefferson County **19:165–166q**, **19:173–178p,c,d**

GENERAL INDEX

- Idaho
Lucky Peak Dam site **23**:(424)
- Michigan
Isle Royale (pink; id as prehnite with copper) **2**:37
Keweenaw Peninsula (numerous localities) (vesicle fillings) **23**:M69
- New Jersey
Paterson area, Passaic County (blades; spheres to 5 cm) **9**:172
Route 80 roadcut, Passaic County (rosettes) **1**:174
- New Mexico
Gila River, Grant County **20**:59n
Wind Mountain, Otero County **20**:60n
- Pennsylvania
French Creek mine (sprays) **25**:118
- Washington
Skookumchuck Dam, Thurston County **3**:33
-
- THORBASTNÄSITE**
- United States**
New Mexico
Point of Rocks, Colfax County **20**:64
-
- THOREAULITE**
- Brazil**
Minas Gerais
Urubu pegmatite, Araçuaí area **12**:76p, **12**:77
- Zaire**
Manono, Shaba **8**:(390), **9**:(114)
-
- THORIANITE**
- Canada**
Ontario
CAM property near Tory Hill (twins to 4 mm) **10**:156
Desmont mine, near Wilberforce **13**:(225)
Dyno mine, near Tory Hill **10**:156
Normingo property, near Bancroft **10**:156–157
Québec
Yates mine, Pontiac County (euhedral to 5 mm) **12**:363
-
- THORIKOSITE**
- Greece**
Laurium (on laurionite, paralaaurionite) **17**:184p, **17**:188
-
- THORITE**
- Metamict **4**:219–220
- Canada**
Ontario
Desmont mine, near Wilberforce (“uranothorite”) **13**:(225)
Kemp mine, Cheddar: crystals to 8 cm **10**:157p,q; 3 cm crystal **13**:79p, **13**:80
- Québec
Kipawa complex, Timiskaming County **19**:335n
Yates mine, Pontiac County (crystals to 5 mm) **12**:363p
- Greenland**
Godthåbsfjord area (“uranothorite”; metamict) **24**:G14n
- United States**
Colorado
Little Patsy quarry, Jefferson County **21**:429n
Pikes Peak region (crystals to several cm) **16**:228n
- New Jersey
Bemco mine, Sussex County (“uranothorite”) **11**:39
- New Mexico
Harding mine: **20**:63n; masses, crystals **8**:123
-
- THORNASITE**
- Canada**
Québec
Mt. St-Hilaire: formerly UK#27 **18**:364; minute grains **21**:342–343
-
- THOROGUMMITE**
- Canada**
Québec
Evans-Lou pegmatite (yttrian; powdery) **3**:73
Mt. St-Hilaire: **18**:364n; grains, acicular **21**:343
- United States**
California
Himalaya dike system, San Diego County (powdery masses, poss. after thorite) **8**:472
-
- THORTVEITITE**
- United States**
New Jersey
Sterling Hill (minute laths) **21**:426n
-
- “**THULITE**”
- See Zoisite*
-
- TIEMANNITE**
- Bolivia**
El Dragón mine, Potosí (gains) **21**:139n
- Mexico**
Queretero **9**:(113)
-
- TILASITE**
- Four world localities **9**:385
- Italy**
Lombardy
Monte Cervandone, Ossola **23**:435n
- Sweden**
Långban **8**:(517), **9**:(113), **18**:(368)
- Switzerland**
Two localities **10**:251
- United States**
Arizona
Bisbee **1**:68–69d,q,c
White-Tailed Deer mine (near), Bisbee district (crystals to 6 mm) **12**:314d
- New Jersey
Sterling Hill mine: **13**:(37); micro crystals **9**:385–386h,p,q
-
- TIN**
- Australia**
New South Wales
Oban **19**:(374)
-
- TINCALCONITE**
- United States**
California
Boron, Kern County **8**:432n
Kramer deposit, Kern County (replacing borax) **6**:87p, **6**:88
Searles Lake (pseudo-octahedral to 3 mm) **6**:80–81c,d
-
- TINSLEYITE**
- United States**
South Dakota
Tip Top mine **17**:240q, **17**:248p, **17**:251, **17**:300
-
- TINZENITE**
- Axinite group nomenclature **11**:13–15
Six European localities listed **11**:15
- Italy**
Cassagna mine, Genova, Liguria **10**:163n
- Switzerland**
Tiefencastel area **10**:(122)
-
- TIPTOPITE**
- United States**
South Dakota
Tip Top mine **17**:240q, **17**:247–249p, **17**:250, **17**:300
-
- TIRODITE**
- United States**
North Carolina
Bald Knob, Alleghany County (prismatic to 5 mm) **12**:171
-
- “**TITANCLINOHUMITE**”
- See Clinohumite*
-
- TITANITE**
- Titanite vs. sphene **1**:74
- Australia**
Northern Territory
Harts range (sharp green to 2 cm) **21**:487n
Mt. Palmer, Harts range (tabular brown to 5 cm) **21**:572–574p,d,c,q
- South Australia
Walleroo mines **19**:416
- Austria**
Felbertal, Salzburg **19**:272
Knappenwand, Salzburg **17**:180p
Laperwitzbachgraben, East Tyrol **17**:(106)
Lienzinger, Salzburg **17**:(106)
Schafkar, Salzburg **13**:172p
Schiedergraben, Salzburg **17**:(106)
Schwarzes Hörndl, Salzburg **17**:(106)
Schwemmhoisl quarry, Styria (18 cm crystals) **17**:106
Stubachtal, Salzburg **17**:(106)
Teufelsmühle, Salzburg **17**:(106), **17**:109p
- Brazil**
Minas Gerais
Capelinha (green transparent) **2**:12n
Campo do Boa, Capelinha (euhedral to 12 cm, most twinned) **5**:224–228c,p
Córrego do Urucum pegmatite (micro spheres) **17**:313
- São Paulo
Jacupiranga mine (to 25 mm) **15**:269p
- Canada**
British Columbia
Ice River complex (1 mm yellow crystals) **12**:224
- Ontario
Bear Lake Road, Monmouth Township (crystals to 6 cm) **24**:223
Cardiff mine, Wilberforce area (anatase after some) **13**:80
Craigmont corundum mine, Renfrew County **13**:(202)
Foymont, Renfrew County **19**:(334)
Lake Clear-Kuehl Lake area, Renfrew County: **13**:212c; twinned crystals to 36 kg **13**:201–202
Several localities **13**:80
Smart mine, Renfrew County **19**:(334)
Tory Hill area **13**:79p, **13**:80n
- Québec
Cantley **19**:334n
Chibougamau (near) (gemmy green to 2 cm) **24**:388
Gatineau Park (Chaput-Payne prospect), Gatineau County (crystals to 10 cm) **11**:80, **11**:81q
Matilda Lake (near), Argenteuil County **22**:386n
Mt. St-Hilaire: **19**:326n, **19**:328p; prismatic to 1 cm **21**:343, **21**:344p
Yates mine, Pontiac County (black prismatic to 1 cm) **12**:363
- Chile**
Chuquicamata (near) **9**:330

England

Merseyside
Thurstaston (orange) **21:492n**

Germany

Rheinland-Pfalz
Laacher See area, Eifel district: **10:93p**; some acicular **8:325d**

Greenland

Gardiner complex: columnar; some gemmy yellow **16:492–494p**; various habits to 13 cm; some gemmy yellow **24:G55p, 24:G56**

Italy

Liguria
Val Gave (crystals to 6 cm) **10:86**
Lombardy
Baveno area **14:165**
Val d'Aosta
Monte Rosso district Verra, above Champoluc (whitish) **10:87n**
St. Vincent **10:86–87**

Madagascar

Androy **24:50n**

Namibia

Gamsberg (5 cm twinned) **25:219**

Norway

Fauske, Nordland (crystals to 7.4 cm) **23:436n**
Oslo region **3:10p**
Øyna, Froland **23:436n**
Radøy Island, Hordaland (4 cm clear yellow) **22:391n**

Pakistan

Alchuri Village, Baltistan (orange) **25:57n**
Dusso area, Gilgit district (gemmy green) **18:431n**
Gilgit district **19:272n**
Hanuchal, Gilgit district **18:(368), 20:146**
Haramosh, Gilgit district **20:397, 20:485**
Locality not specified **19:210**
Tormiq, Gilgit district **23:436n**

Portugal

Monte Redondo quarry (untwinned euhedral to 6 mm) **2:42n**

Russia (formerly USSR)

Dodo **20:74n**
Dodo mine, 75 km from Saranpaul, Polar Urals **25:61**
Saranay, Polar Urals (twinned yellow to 3 cm) **24:389n, 24:390p**
Saranpaul, Ural Mountains (to 2 cm) **25:47n**

Scotland

Strathclyde
Loanhead quarry, Beith **24:392n**
Strathclyde/Dumfries and Galloway
Leadhills-Wanlockhead district **12:(250)**

Sweden

Leveäniemi iron mine, Norrbotten **20:(346)**

Switzerland

Felsertal **19:114n**
Gletsch, Wallis (to 6 cm) **9:57**
Locality not specified; prob. Swiss (gemmy to 2 cm) **9:132**
Oberalp, Graubünden (to 6 cm) **9:57**
Schykehle, Uri (7 mm twin) **6:308p**

United States

Arizona
Bisbee district **12:314**
New Cornelia mine, Pima County (euhedral to 3 mm) **14:297**
California
Essex mine, Inyo County **15:17n**
Independence mine, Inyo County **15:17n**
Jensen quarry, Riverside County (peach colored, to 5 mm) **15:278, 15:289n**
Kalkar quarry, Santa Cruz County (abundant grains) **17:25n**
Steven's ranch, San Diego County (4.5 cm crystal) **8:514**

Thompson mine, Inyo County **15:17n**
Colorado
Eagle (near), Eagle County (2.5 cm crystals) **14:173ff**
Italian Mountain area, Gunnison County **15:84c**

Maine

Sanford deposit, York County (curved sheaves; tabular; fl. UV; "manganaxinite" id as) **24:363–364p**

Massachusetts

Chester emery mines **9:240**

Montana

Jefferson County **20:390**

Nevada

Julie claim, Mineral County (1.5 mm euhedral) **16:79**
Metals mine, Churchill County **20:(70), 20:(390)**

New Hampshire

Government pit, Carroll County **14:(47)**

New Jersey

Sterling Hill **21:426n**

New Mexico

Harding mine **8:124n**
Mina Tiro Estrella, Lincoln County **20:52–53, 20:61**
Oak Spring, Socorro County **20:(24)**
Point of Rocks, Colfax County **20:64n**
San Marcial quarry, Socorro County **20:(61)**
Willow Creek, Sierra County **20:60**

New York

Lead Hill mine, Essex County (micro) **14:27–28p**

North Carolina

Foote mine (stannian) **1:(92)**

Pennsylvania

French Creek mine **25:(119)**
Keystone Trappe Rock quarry, Chester County **2:19n**

South Carolina

Tigerville, Greenville County (poss. anatase after) **1:119**

Virginia

Fairfax quarry, Fairfax County **3:178**

Washington

Washington Pass (to 6 mm) **23:428n**

Wales

Gwynedd
Prenteg **23:397**

TITANTARAMELLITE**United States**

California
Kalkar quarry, Santa Cruz County (large anhedral crystals) **17:325p**

TLALOCITE**Mexico**

Sonora
Moctezuma mine **8:(390)**

TOBERMORITE**Canada**

Québec
Mt. St-Hilaire: **2:269, 2:271q**; fibrous bundles **2:142**

Mexico

Zacatecas
Concepcion del Oro district **3:15, 3:42p**

South Africa

Cape Province
Wessels mine (micro spheres) **24:365, 24:367p, 24:368q**

TOCHILINITE**Canada**

Ontario
S. Baptiste Lake Road, near Bancroft (micro plates, scales) **13:226**
York River tactite zone near Bancroft (after brucite nodules) **13:228p**

TOCORNALITE**Chile**

Chañarcillo (granular) **10:203h**

TODOROKITE**Australia**

New South Wales
Ardglen quarry **19:401**

Austria

Bleiberg district **17:367**

Mexico

Chihuahua
Unspecified geode localities (minute fibrous) **3:210–211p**

South Africa

Cape Province
Adams mine (asbestiform) **22:294**
Hotazel mine **22:294**
Kalahari manganese field (crystals) **9:152**
Langdon-Devon mine (matted) **22:293–294**
N'Chwaning mines: **23:277n**; in gypsum **22:294**
Smartt mine (15 cm fibers) **22:293**

United States

California
Boron, Kern County **2:37n**
Himalaya dike system, San Diego County (coating) **8:471**
Little Three pegmatites, San Diego County **20:124**
Palos Verdes Hills, Los Angeles County (cleavages) **4:290–291**
Sausalito (south of), Marin County (nodular) **2:166–168q**
South Dakota
Tip Top mine (some after fairfieldite) **17:242, 17:248p**

TOLBACHITE**United States**

Arizona
Southwest mine, Bisbee **24:431p, 24:435**

TOOLS

Flexible tweezer extensions for fragile micro specimens **17:273–274**
Nylon prybar **17:227**
Source for hard-to-find tools **10:195**
Specimen trimmers and breakers **4:101–102, 4:288, 7:190–191, 7:323**
Surgical telescopes (high-magnification eyeglasses) **25:323**

TOPAZ

Fluorescence and color instability **20:118–119**

Australia

"New Holland" **19:365–366h**

Brazil

Bahia
Pedra Preta mine (to 1 cm) **7:129–130p**
Praça São Paulo prospect, Brumado district (doubly terminated to 1 cm) **9:198p, 9:203–204**

Espirito Santo

Mimosas (near) (gemmy yellow on smoky quartz) **17:149p–150**

Minas Gerais

Fazenda do Funil pegmatite, Santa Maria do Itabira: **20:354**; 3 crystals to 271 kg **11:356–357p**

GENERAL INDEX

- Limoeiro mine, near Virgem da Lapa (25 cm blue crystal) **13:27c**
 Locality not specified (giant crystals, 32 kg and 50 kg) **2:#3** (back cover)
 Mimeso do Sul (40 cm crystal) **21:488n**
 Ouro Preto region (3 localities) **2:12n, 20:228–232p,d,c,q**
 Padre Paraiso (colorless to 5 cm) **23:432n**
 Virgem da Lapa pegmatite: gemmy blue 7:130–131p; 7 cm crystal **6:250p**
 Xanda mine, near Virgem da Lapa (7 cm blue crystal) **13:20p, 13:27c**
- China**
 Yunnan province **18:365n**
- Germany**
 Bavaria
 Fuchsbau quarry **19:(124)**
 Rheinland-Pfalz
 Bellerberg: **10:91p**; colorless **8:325d**
- Italy**
 Tuscany
 Graziano, Elba **16:359**
- Japan**
 Hirukawa, Eno County **20:388p, 20:396**
- Madagascar**
 Anjanabonoina **20:197**
- Mexico**
 Zacatecas
 Locality not specified (pinacoid termination only) **10:189**
- Mongolia**
 Bain Mod, Hentiy district (5 cm euhedral) **13:179**
- Namibia**
 Klein Spitzkopje (blue) **18:193n**
- Nigeria**
 Jos, Plateau State **20:397**
 Jos River, near Delimi **18:(367)**
 Locality not specified (white, blue, green) **11:317n**
- Northern Ireland**
 County Down
 Slieve Donard quarry **13:(44)**
- Norway**
 Drammen area, Buskerud (5 cm gemmy blue) **22:51n**
- Pakistan**
 Apaligun, Baltistan (etched) **24:52n**
 Ghundao Hill, Katlang (red) **21:97**
 Gilgit Division: **19:272n, 20:146**; colorless and sherry-colored **16:407**; 12 cm sherry-colored **25:218n**
 Haramosh valley, Asad Kashmir province (brown to 10 cm) **11:321**
 Niyit Bruk, near Dusso **16:408p**
 Shamozi **18:368n**
 Shingus area, Gilgit Division (drusy on beryl) **16:407**
 Skardu, Gilgit Division **20:397**
- Portugal**
 Panasqueira mine (small colorless) **2:75**
- Russia (formerly USSR)**
 Alabashka, Ural Mountains (blue) **18:425–426p**
 Scherlovaya, Transbaikalia: **23:438n**; brown to 4 cm **25:50n**; gemmy blue to 3 cm **25:61n**
- United States**
 Arizona
 Ash Creek, Pinal County (20 cm crystal) **23:487, 23:491**
 New Cornelia mine, Pima County **14:(297)**
 California
 Blue Chihuahua mine, San Diego County (white) **8:507–508**
 Champion mine, Mono County **8:480**
 Emerald mine, San Diego County (blue) **8:508**
 Himalaya dike system, San Diego County (pale blue to 8 cm) **8:471**
 Little Three pegmatites, San Diego County: **20:117p, 20:118–119q,c, 20:122q**; blue **8:515p**
 Colorado
 Cameron Cone, El Paso County **16:227**
 Climax mine, Lake County (12 mm clear) **7:287n**
 Devils Head, Douglas County **5:185n, 16:226**
 Glen Cove, El Paso County: blue **5:187n**; crystals to 10 cm, sherry color turns blue when exposed to light **16:226**; to 60 cm **5:188**
 Harris Park, Park County **16:227n**
 Mt. Antero, Chaffee County **10:343, 20:(388)**
 Pikes Peak batholith **10:377, 16:226–227p**
 Spruce Grove Campground, Tarryall Mountains, Park County **16:226–227p**
 Connecticut
 Gillette quarry, Middlesex County (colorless; orange altering to muscovite) **23:27p, 23:28**
 Oxford, New Haven County (etched) **3:36–37**
 Georgia
 Graves Mountain (micro grains) **16:451**
 Idaho
 Bubblegum pocket **19:215–216**
 Sawtooth batholith: **17:(342)**; and quartz after microcline **24:195p**; various habits, colors, some with fl. yellow zone **24:196–197p, 24:198c**
 Maine
 Bennett quarry (7 cm crystal) **25:183**
 Fisher quarry, Sagadahoc County **16:378n**
 Keith quarry, Androscoggin County **16:375n**
 Pulsifer quarry, Androscoggin County **16:(375)**
 Nevada
 Zapot claim, Mineral County **23:425n**
 New Hampshire
 Government pit, Carroll County **14:(47)**
 Rainbow Pocket, Coos County **18:429–430p**
 South Percy Peak, Coos County **23:425n**
 New Mexico
 East Grants Ridge, Cibola County **20:61**
 Harding mine (to 13 cm; most replaced by rose muscovite, clay) **8:124**
 Utah
 Drum Mountains, Millard and Juab counties **10:275**
 Dugway Range, Tooele and Juab counties **10:275**
 Holfert-Allred property, Juab County (gemmy, to 5 cm) **23:428**
 Keg Mountains, Juab County **10:275**
 Needle Range, Iron County **10:277**
 Paradise Hills **10:265p, 10:277**
 Thomas Range (numerous localities) (gemmy euhedral to 4 cm; sand-included to 10 cm) **10:263–266p,c, 10:271–275**
 Topaz Mountain, Juab County: **16:144p**; with bixbyite “necklace” **16:139, 16:142p**
 Wah Wah Mountains **10:265p, 10:276–277**
 Virginia
 Herbb #2 mine, Powhatan County (28 cm crystal) **14:390n**
- Zimbabwe**
 St. Anne’s mine, Miami **19:122n, 20:73n, 20:147**
- TORBERNITE**
See also Metatorbernite
 Alters to metatorbernite **4:78**
 Preserving (forestalling dehydration) **11:261**
 Radioactive drinking water dispenser **20:161p**
- Australia**
 South Australia
 Moonta mines **19:(412)**
- Brazil**
 Minas Gerais
 Cruzeiro mine **11:370n**
- England**
 Cornwall
 Botallack district **24:282h**
 Gunnis Lake **4:79**
- Italy**
 Sardinia
 Arcu su Linnarbu, near Capoterra **18:184**
- Portugal**
 Cunha Baixa mine, Beira Alta province (bi-pyramidal, most altered to metatorbernite) **15:294–295p,d,c**
- United States**
 Arizona
 Ray mine, Pinal County (3 mm crystals) **14:320**
 Silver Bell mine, Pima County (micro) **11:261, 11:262p**
 Colorado
 La Sal mine (near), Boulder County **7:279n**
 Nevada
 Majuba Hill mine (crystals to 1.5 cm) **16:70**
 New Hampshire
 Palermo mine, Grafton County **5:278n**
 New Mexico
 Phelps-Dodge mine, Grant County **20:57, 20:59p**
 North Carolina
 Chalk Mountain, Mitchell County: **1:139**; crystals to 6 mm **1:175**
 Utah
 Posey mine, San Juan County **19:(333)**
- Zaire**
 Musonoi mine (metatorbernite) **20:286p**
 Shaba (formerly Katanga) **20:286c, 20:398**
 Shinkolobwe mine **20:286**
-
- TOURMALINE GROUP**
-
- See also names of individual species*
 Articles in volumes 1–15, list of **16:328**
 Displays at 1984 Tucson Show **15:179–181p**
 Electrical properties **16:334–336h, 16:347**
 History of tourmaline group mineralogy **16:331–338h,p,d**
 Morphology, comments on **17:145**
 Nomenclature, varieties, crystal morphology, chemistry, etc. **16:339–351p,d,c,q**
 Special issue **16:#5**
 Tourmaline group nomenclature **3:16, 3:131**
 Tourmaline tongs (early polariscope) **16:336, 16:350p**
Tourmaline, Der: eine Monographie **23:412b**
 Well-known named specimens **16:348–349**
- Brazil**
 Bahia
 Brumado district (small green) **9:204**
 Minas Gerais
 Agua Boa **18:148n**
 Conselheiro Pena (near) **18:148n**
 Córrego Frio mine, near Linópolis (green needles, black crystals) **14:233**
 Cruzeiro mine, Santa Maria do Suaçui (“watermelon”) **17:151n**
 Énio pegmatite, near Galiléia **12:72**
 Genipapo mine, Aracuai **19:335s**
 Golconda (“indicolite”) **18:365n**
 Ismael mine, Ouro Preto region **20:232**
 Itinga area: **17:208n,p**; green, orange termination **17:151n**
 Jonas mine, near Conselheiro Pena (gemmy green) **13:51**

GENERAL INDEX

- Natino mine (olive, brown terminations) **17:151n**
 Numerous localities **2:12n**
 Pamaró mine, near Linópolis (pink, green gemmy) **14:234n**
 Pedemeira mine (blue-grey, red terminations) **17:406p**
 Santa Rosa, Itambecuri: pink cores, blue exteriors **17:151n**; red **2:12n**
 Taquaral, Itinga area (pink) **17:151n**
 Virgem da Lapa mine (green to 1 m) **7:130–131p**
- Canada**
 Ontario
 Canada Talc mine, Madoc **17:(382)**
 Kilpatrick mine, Madoc (micro) **17:382p**
- Chile**
 Chuquicamata (needles) **9:330**
- China**
 Altai Mountains, Xinjiang Autonomous Region: **18:(326)**; gemmy, some bi-colored **14:388p**
 Yunnan (locality not specified) (bi-colored, yellow-green, pink) **24:49n**
- Czech Republic (formerly Czechoslovakia)**
 Dobrá Voda **19:(10)**
 Dolní Bory **19:(10)**
- Egypt**
 Zebirget (St. John's Island) (short prismatic, black/brown) **7:313c**
- England**
 Cornwall
 St. Just (colorless): **16:335p**; probably phenakite instead **17:347**
- Greenland**
 Godthåbsfjord area (black, to 13 cm) **24:G14c**
 Sermitsiaq Island and Ivisártoq (Ivisaartoq) peninsula (to 10 cm) **24:14**
- Italy**
 Lombardy
 Baveno area (acicular) **14:165**
 Tuscany
 Monte Capanne, Elba: **16:(337p)**, **16:362d**; acicular in quartz **16:361**
- Madagascar**
 Anjanabonoina **20:197–200p,d,c**
- Mexico**
 Sonora
 Mina Guadalupe, Santa Cruz (fuzzy black, to 4 cm) **15:177**, **15:178p**
- Namibia**
 Damaraland (black tabular) **21:490n**
 Erongo Mts (in aquamarine) **19:(337)**
 Otjua mine (milky green, black tops) **23:435n**
- Nepal**
 Chainpur (multi-colored) **10:123**
 Hyakule mine **16:414–417c,p,q**, **17:207n**
 Numerous localities **16:417**
 Phakuwa mine **16:414–417c,q**, **17:207n**
 Sonquesawa mine, Bratnagar site (pink) **10:123**
- Nigeria**
 Jos (green, pink bases) **21:97s**
- Pakistan**
 Locality not specified ("watermelon," purple terminations, to 10 cm) **23:268**
- Portugal**
 Panasqueira mine (prickly acicular) **2:77**
- Russia (formerly USSR)**
 Lake Baikal (near) (poss. elbaite; grey, purple terminations to 7 cm) **23:268**, **23:271p**
- Tanzania**
 Locality not specified **20:398**
- United States**
 Arizona
 Mammoth mine, Pinal County **11:161**
 New Cornelia mine, Pima County **14:(297)**
 Northwest of Bisbee **12:314**
- California
 Himalaya dike system, San Diego County (schorl, elbaite, dravite) **8:462–463p**, **8:468–473q,p**
 Himalaya mine, San Diego County: **16:419–423h,c,p**, **20:399**; red/green, some corroded **15:44n**
 Little Cahuilla Mountain, Riverside County **17:341n**
 Stewart mine, San Diego County **20:399**
- Colorado
 Pikes Peak batholith (schorl-elbaite; needles) **10:377**
 School Section mine, Fremont County ("suns" to 120 cm) **5:188**
- Idaho
 Luella mine, Latah County (black; 2.4 m crystal) **24:55**
- Maine
 Bennett quarry **22:382n**
 Mt. Rubellite quarry (cookeite after) **21:483n**
 Noyes Mountain (muscovite after) **21:483n**
- Massachusetts
 Chesterfield, Hampshire County **19:151n**
- Michigan
 Michigan mine, Marquette County (acicular black) **17:121n**
 Ropes mine, Marquette County (acicular black) **17:121n**
- Montana
 Bald Hornet claim, King County (feathery sprays) **20:390**
 Dry Gulch skarn locality, near Helena (sprays of blue acicular) **23:424**
- New Jersey
 Franklin (brown, with "octahedral" calcite) **15:144**
- New Mexico
 Magdalena district, Socorro County **20:(24)**
- Washington
 Bald Hornet #3 claim, King County (acicular, with Japan twin quartz) **17:209n**
- Wisconsin
 Rib Mountain, Marathon County (black, dark green) **12:96**
- Zimbabwe**
 St. Anne's mine **20:73n**
-
- TOXIC MINERALS**
- Radioactive torbernite water dispenser **20:161**
 Survey, table of 199 toxic species: **11:5–11**; letter **11:387–388**
- "TRAINITE"
- See also Vashegyite*
- United States**
 Nevada
 Manhattan (near), Nye County **16:55h**
-
- TRECHMANNITE**
- Switzerland**
 Lengenschach quarry **8:279q**, **25:(140)**
-
- TREMOLITE**
- Vs. edenite **2:56**
- Afghanistan**
 Korano Mujan, Nuristan (prismatic to 10 cm) **23:432**
- Brazil**
 Bahia
 Brumado district (crystals to 40 cm) **9:203p**, **9:204**
 São Paulo
 Jacupiranga mine **15:269**
- Canada**
 British Columbia
 Ice River complex (tremolite-actinolite, green fibrous) **12:224**
- Ontario
 Dark Lake, near Wilberforce (chromian) **13:73n**
 Irondale (white prismatic) **13:73n**, **13:75p**
 Kaladar (chromian) **13:73n**
 Keller farm, near Hardwood Lake (4 cm blocky crystals) **13:73n**, **13:75p**
 Miner's Bay **13:73n**
 Norland **13:73n**
 Tait Farm, Lamable **13:73n**
- Québec
 Cantley (tremolite/actinolite) **19:334n**
 Gatineau Park (Chaput-Payne prospect), Gatineau County **11:80**, **11:81q**
 Marbridge #2 mine, Malartic district (needles to 20 cm) **7:177**, **7:178p**
 Mt. St-Hilaire (prismatic to 2 mm) **21:343**
 Orford mine (fibrous white) **25:343**
 Yates mine, Pontiac County (crystals to 3.5 cm) **12:363**
- England**
 Cornwall
 Botallack district **24:(282)**
- Norway**
 Hotvedt, Sandefjord **20:397**
 Kongsberg **17:(35)**
 Mo I Rana, Nordland **20:397**
- South Africa**
 Cape Province
 Hotazel mine (needles) **9:152**
- United States**
 Arizona
 Sacramento Hill area, Bisbee district **12:314**
- California
 Jensen quarry, Riverside County **15:289n**
 Kalkar quarry, Santa Cruz County (some "mountain leather") **17:326**
- Colorado
 Italian Mountain area, Gunnison County **15:87n**
- Maryland
 Rockville Crushed Stone Co. quarry, Montgomery County **17:127n**
- Michigan
 Centennial mine, Houghton County ("byssolite") **23:M69n**
 Marquette County **17:121n**
- New Jersey
 Route 80 roadcut, Passaic County ("mountain leather") **1:174**
- New Mexico
 Magdalena district, Socorro County **20:(23)**
 Oak Spring, Socorro County **20:(23)**
- New York
 Beaver Creek area, St. Lawrence County **17:(342)**
 Gouverneur, St. Lawrence County (prismatic to 8 cm) **8:103p**, **8:106**
 Richville (near), St. Lawrence County (prismatic, acicular; some after diopside) **21:539p**, **21:540**
 Talleville, St. Lawrence County **18:361n**
- Pennsylvania
 French Creek mine (acicular) **25:118**
-
- TRIDYMITE**
- Germany**
 Rheinland-Pfalz
 Laacher See area, Eifel district **8:318d**
- Italy**
 Sicily
 Biancavilla **17:(206)**
- Moon**
 Localities not specified **1:21**
- South Africa**
 Cape Province
 Mamatwan mine (massive) **22:294**

GENERAL INDEX

- United States**
 Arizona
 Big Lue Mountain, Greenlee County (twinned micro crystals) **18**:360
 California
 Siegler Canyon, Lake County **8**:433n
 New Mexico
 San Marcial quarry, Socorro County **20**:61
 Oregon
 Diamond Lake, Douglas County **16**:139–140, **16**:144p
 Lemolo Lake, Douglas County (star-shaped twin) **16**:150, **16**:151p
 Utah
 Holfert-Allred property, Juab County (crystals to 1 cm) **23**:428
-
- TRIPHYLITE**
 In pegmatite environments **4**:108–109
 Numerous world occurrences **4**:108–109, **4**:117
- Brazil**
 Minas Gerais
 Enio pegmatite, near Galiléia (large masses) **12**:69
 Sapucaia area **2**:12
 Paraíba
 Alto Benedito pegmatite (heterosite replacing) **22**:185n
- United States**
 Maine
 Bell Pit (blue anhedral) **1**:114
 Bennett quarry (massive) **25**:183
 Newry area (masses to 15 cm) **6**:201
 Ridge #1 prospect (5 cm crystal) **24**:383n
 New Hampshire
 Palermo mine **5**:277
 South Dakota
 Tip Top mine **17**:239, **17**:240q
-
- TRIPLITE**
 In pegmatite environments **4**:110–111
 Three world occurrences **4**:118
- United States**
 Colorado
 Krystal Krown, Purple Haze, and Rainbows End claims, Larimar County **22**:382n
 Mica Lode, Fremont County (60 cm) **5**:189
 Maine
 Pulsifer quarry, Androscoggin County **16**:375
-
- TRIPLOIDITE**
 In pegmatite environments **4**:112
- Brazil**
 Rio Grande do Norte
 Capoeira (Boqueirãozinho) pegmatite, near Parelhas (sprays to 8 cm) **21**:488n
- United States**
 New Hampshire
 Chandler pegmatite **17**:342n
 South Dakota
 Ross lode, Pennington County **4**:112
-
- TRIPUHYITE**
Australia
 Western Australia
 Ashburton Downs (coatings) **24**:216
- Switzerland**
 Graubünden
 Mangan Grube (1 mm acicular) **22**:393n
- United States**
 Nevada
 Green Prospect, Churchill County (after stibnite) **16**:73
-
- TRITOMITE**-(Ce), -(Y)
United States
 New Jersey
 Bemco mine, Sussex County (tritomite-(Y)) **11**:388
-
- TROGTLALITE**
Bolivia
 El Dragón mine (grains) **21**:138h,q, **21**:139
- Zaire**
 Musonoi mine **20**:276
-
- TROILITE**
Greece
 Laurium area **7**:117n
- Moon**
 Minute blebs **1**:21q
-
- TROLLEITE**
United States
 California
 Champion (Mono County) mine, Mono County: **8**:390; masses **8**:480
 Virginia
 Willis Mountain mine, Buckingham County **23**:428
-
- TRONA**
Canada
 Québec
 Mt. St-Hilaire (powdery fillings, coatings) **21**:343
- United States**
 California
 Searles Lake (fibrous; bladed to 45 mm) **6**:81–82c,d
- “TROOSTITE”
See Willemite
-
- TRUSCOTTITE**
United States
 Wyoming
 Yellowstone National Park (micro) **12**:35q
-
- TSAREGORODTSEVITE**
Russia (formerly USSR)
 Mun-Hambo, Polar Urals **24**:389
-
- TSCHERMIGITE**
United States
 California
 Geysers, The, Sonoma County (glassy octahedral) **24**:351
-
- TSCHERNICHITE**
United States
 Oregon
 Goble (near), Columbia County (newly described) **22**:57–58h,q,p
- “TSILAISITE”
Manganoan elbaite
 Status as distinct species questioned **16**:339, **16**:416–417
-
- TSUMCORITE**
Australia
 South Australia
 Beltana mine (tiny bladed; some deep red, manganoan) **22**:453–455
 Western Australia
 Ashburton Downs (minute feathery) **24**:208p, **24**:216p
- Namibia**
 Tsumeb: **8**:390; micro crystals **8**:T33–34, **8**:T65p; newly described, massive **3**:187h,q
-
- TSUMEBITE**
Namibia
 Tsumeb: **8**:390; micro crystals, some “bayldonite” id as **8**:T34, **8**:T60p
- United States**
 Arizona
 Mammoth mine, Pinal County (micro spheres) **11**:170
 New Mexico
 Hansonburg district, Socorro County **20**:41, **20**:44q
-
- TSUMOITE**
Japan
 Tsumo mine, Shimane (announced) **10**:302h,q
-
- TUCEKITE**
Germany
 Siegerland
 Adler mine (euhedral) **25**:140n
-
- TUGTUPITE**
Canada
 Québec
 Poudrette quarry: **21**:486; globular, crude crystals to 3 mm; fl. **21**:343
- Greenland**
 Ilímaussaq complex **8**:390
 Kvanefjeld drift: **8**:517; complex twins, pink, red, fades in darkness, restored by UV; fl. UV **24**:G25–27p,d
 Tugtup agtakôrfia **24**:G26h
-
- TUNDRITE**-(Ce), -(Nd)
Canada
 Québec
 Mt. St-Hilaire (tundrite-(Ce), formerly UK#18; sharp blades to 1.5 cm) **21**:343c
- Greenland**
 Ilímaussaq complex (tundrite-(Ce); laths to 1 cm) **24**:G24–25p,h
-
- TUNELLITE**
United States
 California
 Thompson mine, Inyo County (tabular to 12 mm) **4**:22
-
- TUNGSTENITE**
Namibia
 Tsumeb **8**:T34n
-
- TUNGSTEN MINERALOGY**
See also names of individual species
 Secondary tungsten minerals **12**:81–87
- “TUNGSTIC OCHER”
 Mixture of several secondary tungsten minerals **12**:81–82
-
- TUNGSTITE**
See also Alumo-; Cero-; Ferri-; Hydro-; Yttritungstite
 Misapplications of name “tungstite” **12**:86
 Three localities **12**:86h
- Bolivia**
 Calacalani and Juliana mines, Oruro Dept. **6**:136
- United States**
 Colorado
 Kittie Mac mine, San Juan County **10**:359n
 Silver Wing or Kittie Mac mine, San Juan County (acicular) **7**:301n
-
- TUNISITE**
Russia (formerly USSR)
 Slavyansk salt cupola, Dneprovsk-Donets Basin (announced as “slavyanskite”; micro crystals) **9**:254
-
- TUPERSSUATSIAITE**
Also spelled Tuperstvatsiaite
Namibia
 Windhoek (near) (sprays to 2 cm) **24**:235
-
- TURKEY**
 Aydin and Mugla (between) **18**:161s, **18**:368s, **20**:398s, **20**:484s
 Bigadiç, on the Simav River, eastern Anatolia **10**:124
 Erzerum **18**:368s, **20**:73s, **20**:398s
 Erzincan **9**:133

- Eskişehir: **11:317s**; spelling **7:47–48**
 Hisarcik mine, Emet colemanite deposit, Kütahya **10:301s**
 Killik mine, Emet colemanite deposit, Kütahya **10:301s**
 Kirka borate deposits **3:165–166h**
 Kop Dağlari, near Erzerum **8:282s**, **8:403s**
 Kop Krom mine, Kop Dağlari (Kop Mountains) near Aşkale, between Erzerum and Erzincan, eastern Anatolia **9:277–287p,m,h,g**
 Kütahya **20:299**
 Mugla province **20:398s**, **20:459s**
 Murgul, Anatolia **10:122s**
 Panderma **9:113s**
 Selcuk, Mugla-Aydin region **20:389s**
- TURKMENISTAN**
Formerly USSR
 Gaurdak **23:280s**
- TURNEAUREITE**
United States
 New Jersey
 Franklin/Sterling Hill **19:(274)**
- TURQUOISE**
 Turquoise-chalcosiderite series **12:349–350h**
- Australia**
 New South Wales
 Kintore opencut, Broken Hill (ferrian) **19:431**, **19:433q**
 Queensland
 Mt. Oxide mine (crystals) **18:431n**, **19:471p**, **19:486**
 South Australia
 Iron Monarch quarry, Iron Knob (crystals) **12:106n**
 Moonta mines **19:(412)**
 Western Australia
 Greenbushes tinfield **9:(83)**
- Brazil**
 Itatiaçu (crystals) **20:394**
- Chile**
 Chuquicamata **9:330**
- China**
 Hubei province **18:(326)**, **18:(365)**
- England**
 Cornwall
 Hensbarrow pit, St. Austell (micro crystals) **12:350p**, **12:351–352q**
 Wheal Phoenix, Linkinhorne (micro crystals) **12:351–352p,q**
 Wheal Remfry, St. Enoder (micro crystals) **12:350**
- Ireland**
 County Limerick
 Fort Lismeenagh, Shenagolden (botryoidal) **24:392n**
- Spain**
 Palazuelos de las Cuevas, Zamora (crude micro crystals) **25:222n**
- United States**
 Alabama
 Erin, Clay County (fibrous veinlets) **9:390p**, **9:391**
 Wood copper mine, Cleburne County (fibrous crusts) **9:390p**, **9:391**
 Arizona
 Cole shaft, Bisbee district (stringers in pyrite) **12:314**
 Defiance and/or Silver Bill mines, Cochise County (id as fraipontite) **14:131–132q**
 Lavender pit, Bisbee district (large masses) **12:314–315**, **12:316p**
 Mineral Park mine, Mohave County **11:243**
 New Cornelia mine, Pima County **14:297**
 Arkansas
 Mona Lisa mine, Polk County **16:(291)**
- California
 Baker, San Bernardino County (after apatite) **8:282**
- Nevada
 Valmeij (near), Humboldt County (micro crystals) **23:425**
- New Mexico
 Mex-Tex mine, Socorro County **23:(425)**
 Rose mine, Grant County (coatings) **25:201**
- Pennsylvania
 Bachman mine, Northumberland County **11:(311)**
 Moores Hill, Cumberland County **11:(311)**
- Virginia
 Kelly Bank mine, near Vesuvius (fibrous) **10:49p**
 Lynch Station, Campbell County (micro crystals) **18:433n**, **25:377n**
- TUSCANITE**
Italy
 Lazio
 Sacrofano quarry **23:435n**
 Tuscany
 Latera caldera (announced; anhedral to 1 cm) **9:115h,q**
- TVALCHRELIDZEITE**
Canada
 Ontario
 Hemlo gold deposit **17:(340)**
- TVEITITE-(Y)**
Norway
 Høydalen, Telemark: **9:387**; announced **9:40s**
- United States**
 Texas
 Barringer Hill district (micro grains) **9:387h,q**
- TWINNITE**
Canada
 Ontario
 Madoc (near) **13:97q**
 Taylor farm, near Madoc **13:(80)**
- TWINS AND TWINNING**
 Albite (contact, albite law): Carrara, Italy **18:288–289**; Franklin, NJ **14:185p**; Oxford quarry, NJ (albite and Carlsbad laws) **14:44p**
 Albite (penetration, Carlsbad law), Carrara, Italy **18:288–289**
 Alleghanyite (polysynthetic), Bald Knob, NC **12:169n**
 Alumotungstite (penetration), Nyamulilo mine, Uganda **12:35p**
 Apatite, Minas Gerais, Brazil **18:365**
 Argentite (penetration), Freiberg district, Germany (acanthite after) **7:168p,d**
 Arsenopyrite (contact): Ackerman mine, Ontario (geniculate) **13:111n**; Deloro mine, Ontario (sixling) **13:111n**; Lucy mine, Ontario (sixling) **13:107**, **13:108p**; Madoc, Ontario (some cyclic) **17:381–382p,m**
 Bertrandite (contact): Bierman quarry, CT **14:365–366p**; Strickland quarry, CT **14:364**
 Calaverite (contact), Cripple Creek, CO **13:396p,d**
 Calcite (contact): Carrara, Italy **18:284**; Elmwood mine, TN (on {0001}) **14:370p**; Gallatin Canyon, MT (on {0001}) **19:332**; Magma mine, AZ (rhombs on {0001}) **14:80–81p**; Medford quarry, MD (fishtail) **17:151p**; Thomasville, PA (on {0001}) **18:361**; Wheal Wrey, Cornwall (L-shaped) **14:364**
 Calcite (polysynthetic), Orford mine, Québec **25:336p**
 Cassiterite (contact): Elba, Italy **16:358d**; Panaseira mine, Portugal **2:75p**
 Cassiterite (penetration), Nuristan, Afghanistan **14:372p**
- Cerussite (contact): Bisbee, AZ (V-twins) **12:299**; Bleiberg, Austria (sixling) **17:362d**; Bunker Hill mine, ID (many habits) **12:343–344p**; Leadhills, Scotland **12:242–243d**; Old Yuma mine, AZ **14:101p**; Tasmania, Australia **19:384–385**; Touissit, Morocco (V-twins) **12:184p**, **15:347n**
- Chabazite (penetration), New South Wales, Australia (3 localities) (“phacolite”) **19:399**, **19:403–405**
- Chalcoalumite (contact), Bisbee, AZ **12:299d**
- Chalcocite (contact), Magma mine, AZ **14:77–78p**
- Chalcopyrite (penetration): Bandora mine, CO **19:244**; Camp Bird mine, CO **14:145p**; Peru **18:242**
- Chervetite (contact), Mounana, Gabon **6:38–39d**, **6:242–243**, **6:247p**
- Chrysoberyl (contact): Brazil (24 kg crystal) **18:246**; Orissa, India (gemmy sixlings) **19:271–272**
- Cinnabar (penetration): China **19:114**, **19:115**; Duyun, China (3.7 cm twin) **22:216**; Nevada **18:243**, **18:245**
- Clinochlore (“kämmererite”) (contact and penetration), Kop Krom mine, Turkey **9:282**, **9:284–285p,d**
- Comprehensive survey **8:350–361**
- Copper (contact, spinel law): Coquimbo, Chile **11:27**, **11:115**; flattened **14:365d**; Michigan **23:M42–50p,d**; New Jersey **17:130p**; Ray, AZ **14:314p**, **14:319**; three localities **12:187**
- Cubanite (contact): Chibougamau, Québec **18:431**, **19:210**; Strathcona mine, Ontario **13:109p**; twins, 3 cm sixling, from Chibougamau, Québec **14:153–154p,d,c**
- Derbylite (contact), Buca della Vena mine, Italy (trillings) **17:265p,d**
- Diamond, Brazil **20:328–330**
- Diamond (contact, spinel law, “macle”), Kimberly, South Africa **14:364–365m,p**
- Emeleusite (penetration), Ilimaussaq complex, Greenland **24:G28d**
- Epididymite (contact), Mt. St-Hilaire, Québec (trillings) **13:241**
- Ferritungstite (contact), Borralha mine, Portugal (platy micro sixlings) **12:83–84p**
- Flattened twins of normally equant minerals **14:363–368**, **18:435–436**
- Forsterite (penetration), Jacupiranga mine, Brazil **16:148p**
- Galena (contact, spinel law): Herja, Romania **23:268n**; Sweetwater mine, MO **21:483n**; Tucson mine, Leadville, CO **16:181**
- Galena (penetration): Carrara, Italy **18:272**; Iron Cap mine, AZ **19:82–83**; Wallaroo, South Australia **19:414**
- Gold (contact) (flattened) **14:365d**
- Graphite (penetration), Crestmore quarry, CA **22:427–432p,d**
- Gypsum (contact), Lake Gilles, Australia (several habits) **13:189–191p,d**
- Gypsum (penetration), Lake Gilles, Australia **13:191p,d**
- Harmotome (contact), Thomaston Dam, CT **10:240–241p**
- Harmotome/phillipsite (contact), Holidaysburg, PA **19:333**
- Hausmannite (contact), Wessels mine, South Africa **19:201**
- Herderite/hydroxyl-herderite (contact), Virgem da Lapa and Golconda, Brazil **10:6–10d,m,p**
- Lazulite (contact): Graves Mountain, GA **15:450–452p,d**; Rapid Creek, Yukon (new twin law) **23:26**
- Leucophanite (penetration), Mt. St-Hilaire, Québec **13:245p**

GENERAL INDEX

- Levyne (penetration): Færoe Islands, Denmark **12:18p,d**; Iceland **12:18p**
- Magnetite (contact): flattened **14:365d**; Jacupiranga mine, Brazil (polysynthetic spinel law) **15:265p**
- Mangan-neptunite (penetration), Mt. St-Hilaire, Québec (multiple twins) **19:325, 19:327**
- Marcasite (contact): Madoc, Ontario **17:139p**; Misburg, Germany **15:118–119p**; Nanisivik mine, Northwest Territories **18:362p**; pyrite after fivelings to 12.5 cm, from Nanisivik mine, Northwest Territories **21:522, 21:524p**; some fourlings, Misburg, Germany **19:271**
- Microcline (contact, Baveno law): Moat Mountain, New Hampshire **17:342**; Mt. St-Hilaire, Québec **21:322p**; Sawtooth Mountains, ID **19:332, 24:194–195p**; Shavano Peak, CO **12:367p**; Udacha, Russia **24:389n**; Urumuc pegmatite, Brazil **17:310–311p**
- Microcline (contact, Mannebach law): Crystal Peak, CO **19:215–216**; Harris Park, CO (var. amazonite) **22:382**; Pikes Peak area (var. amazonite) **16:218p**; Udacha, Russia **24:389n**
- Microcline (penetration, Carlsbad law), Shavano Peak, CO **12:367p**
- Monazite, Minas Gerais, Brazil **18:365**
- Muscovite (penetration), Brazil ("star" mica) **18:148**
- Nahcolite (contact and penetration), Searles Lake, CA **6:77–78d**
- Orthoclase (contact, Baveno, Mannebach; penetration, Carlsbad laws), Baveno, Italy **14:164–165p,d**
- Orthoclase (penetration, Carlsbad law): Blue Ball mine, AZ **20:(50)**; Guiyang, China **20:394**; Narssárssuk, Greenland **24:G41p**; West Maroon Pass, CO **8:363–367**
- Pentagonite (contact): Oregon (fiveling) **18:335**; Owyhee Dam, OR (fivelings) **5:74–75d**
- Peretaite, Cetine mine, Tuscany, Italy **15:34–35**
- Pharmacosiderite (penetration), Northumberland mine, NV **16:40p, 16:41**
- Phillipsite (contact): Willy Wally Gully, New South Wales, Australia **19:403**; see also Twins and Twinning—Harmotome/phillipsite
- Platinum (penetration), Konder, Russia **24:225p, 24:227n**
- Plattnerite (contact), White Pine Co, NV **1:78p**
- Pyrite (penetration, "iron cross"): Nanisivik mine, Northwest Territories **21:526, 21:531p,d**; Wyoming mine, CO **17:341**
- Quartz (contact, Japan law): Basin, MT **18:360**; Big Bug Creek, AZ **14:365p**; Camp Bird mine, CO **14:146p**; Collier Creek mine, AR **25:58**; Denny Mountain, WA **14:365p**; Fat Jack mine, AZ **22:27n**; Foley Mountain, British Columbia (sceptered) **19:333**; Galiuro Mountains, AZ (elbaite in) **19:331**; Gold Hill, NV **14:56n**; Guerrero, Mexico (var. amethyst) **17:405p, 18:145–146**; King County, WA **17:209**; Mina Tiro Estrella, NM **20:51–53**; Mt. Ida, AR **20:75**; P.C. mine, MT **15:120p**; Prince of Wales Island, AK **8:10p**; San Pedro mine, NM **2:185, 20:63**; Santander, Columbia **17:210p**; survey of 77 world localities **10:137–146**; Washington Camp, AZ **17:341s**; Yankee Boy mine, AZ (multiple) **1:33p**
- Quartz (penetration, Brazil law): Carrara, Italy **18:282**; Kingsgate mines, New South Wales, Australia (color zoning shows twin sectors) **16:284**
- Quartz (penetration, Dauphine law): Carrara, Italy **18:282**; Font Sante mine, France **8:309n**; Gouveia, Brazil **21:487n**
- Quartz (Schneeberg law), Iceland **12:24p**
- Rhodochrosite (contact), Mt. St-Hilaire, Québec: **21:332–333p**; flattened **14:363–364p,c**
- Rutile (contact and penetration): Graves Mountain, GA (twin, sixling, eightling) **16:452–457p,d,c**; Jensen quarry, CA (cyclic) **15:289n**
- Rutile (contact): Carrara, Italy **18:283**; Magnet Cove, AR (eightling) **3:86p**
- Seligmannite-bornonite (contact), Carrara, Italy (fourling twins) **18:275**
- Sellaite (contact), Gjerdingen, Norway **12:231–232p,c,d**
- Senaite, Mt. St-Hilaire, Canada (trillings) **18:364**
- Serandite, Mt. St-Hilaire, Canada **18:363**
- Siegenite (contact), Buick mine, MO **15:38d**
- Silver (contact): Kongsberg, Norway (large cubes) **17:29p,d**; Michigan **23:M42–50p,d**
- Sphalerite (contact): Camp Bird mine, CO **14:147p**; Carrara, Italy **18:269**; Ems district, Germany **15:341p**; Franklin, NJ (micro euhedral) **14:192p**; Iron Cap mine, AZ **19:82ff**
- Sphalerite (penetration), Carrara, Italy **18:269**
- Staurolite (penetration), Fannin County, GA (combined 60° and 90° twin) **21:482**
- Stephanite (contact), Verdad de los Artistas mine, Spain **23:249n**
- Taaffeite (contact), **22:343–347d,c**
- Tridymite (contact): Big Lue Mountain, AZ **18:360**; Lemolo Lake, OR (star-shaped) **16:150, 16:151p**
- Tugtupite (contact), Hímaussaq complex, Greenland **24:26–27d**
- Uraninite (penetration), Gatineau Park, Québec **11:80p,d**
- Witherite (contact), Pen-y-Clun quarry, Wales **19:337**
- Wulfenite (contact), **21:99**
- Zincite (contact), Sterling Hill, NJ (micro flat twins) **10:45–47p**
-
- TYCHITE**
-
- Uganda**
Lake Katwe (crystals to 8 mm) **8:396p,q**
- United States**
California
Searles Lake: crystals to 2.5 cm **6:77–78c, 6:79d**; micro **8:431n**
-
- TYPE LOCALITIES**
-
- See also New Species*
Black Hills, SD **17:297–301**
California **2:152–161, 20:141–142**
Nevada **16:43–56**
New England **1:46–53**
New Mexico **20:9–12**
Ytterby, Sweden **2:136–138**
-
- TYPE SPECIMENS**
-
- See New Species*
-
- TYROLITE**
-
- France**
Rabéjac quarry, Hérault (cleavages) **23:433n**
- Greece**
Kamaréza mine, Laurium **25:280**
- United States**
Michigan
Mohawk mine, Keweenaw County **23:M68n**
Nevada
Majuba Hill mine: micaceous sprays, spheres to 5 mm **24:178**; most id as parnauite **16:70–71**
Utah
Gold Hill mine (to 1 mm) **24:21**
-
- TYUYAMUNITE**
-
- United States**
Arizona
Campbell, Bisbee district **12:(315)**
Cole shaft, Bisbee district **12:315**
Montana
Warren, Carbon County (sharp micro crystals) **8:390**
New Mexico
Poison Canyon, McKinley County **20:63n**
- Uzbekistan (formerly USSR)**
Tyuya Muyun Hills, Fergana **18:335p**

GENERAL INDEX

UGANDA

- Björdal (Namulilo) mine **12:83s**
 Kikagati **12:82s**
 Kirwa mine **12:85s**
 Lake Kattwe (Katwe Lake) **8:396g, 20:72s, 24:52s**
 Mbale **4:125s**
 Mpororo mine, Kigezi **12:83s**
 Nyakabingu **12:83s, 12:85s**
 Nyamulilo mine, Kigezi **12:81–86s**

UKRAINE

- Formerly USSR*
 Crimea **20:74s, 20:398s**
 Kerch, Crimea **17:341n**
 Locality not specified **18:159s**
 Lvov (near) **21:174s**
 Nikitovka, Gorlovka, Donetsk Oblast **24:226s**
 Volyn Volodarsk (Wolyn, Wolyn-Wolynskiy, etc.) **18:243s, 18:244, 19:117s, 19:211s**
 Wolodarsk-Wolynsky, Wolyn (see Volyn Volodarsk)
 Yavokskoye, near Novoya Vorovsk, Lvov region **24:226s**

ULEXITE

- World boron deposits and production **3:165–172, 3:213–220**
Chile
 Chuquicamata **9:325**
Turkey
 Bigadiç, Anatolia (fibrous) **10:124**
United States
 California
 Boron, Kern County: **19:315–317**; “cotton-balls”; compact fibrous “TV rock,” “mushroom” aggregates **6:88–90p**
 Hardscramble (Hardscrabble) mine, Inyo County **8:431n**

ULLMANNITE

- Brazil**
 Minas Gerais
 Morro Velho gold mine (dodecahedral to 2 mm) **4:228, 4:229p**
Australia
 Queensland
 Mt. Isa mine (some cobaltian) **19:484**
Germany
 Siegerland
 Adler mine, Eisern **25:140n**
Wales
 Dyfed
 Hendre-Felen quarry (cubes to 4 mm) **21:492n**

ULVÖSPINEL

- Moon**
 Minute grains **1:22q**

UMANGITE

- Australia**
 Western Australia
 Kalgoorlie **18:(28)**
Bolivia
 El Dragón mine (grains) **21:139n**
Czech Republic
 Bukov, near Tišnov **9:(114)**
Namibia
 Tsumeb (minute grains) **8:T34n**

UMOHOITE

- France**
 Rabéjac quarry, Hérault: micro **25:209p**; minute crystals **23:433n**
Zaire
 Shinkolobwe mine **20:286–287q**

UNGEMACHITE

- Chile**
 Chuquicamata **9:329d,c**

UNION OF SOVIET SOCIALIST REPUBLICS

- See also independent states: Azerbaijan, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan*
 Gems **19:340b**
 Kovouaksi, Jouva **19:256s**

UNITED KINGDOM

- See also individual countries: England, Northern Ireland, Scotland, Wales*
Journal of the Russell Society recommended **21:510**
Manual of the Mineralogy of Great Britain and Ireland (1858): **4:79–80b**; facsimile edition with additions **11:49b**

UNITED STATES OF AMERICA

- See also individual states*
 Bibliography of American locality literature, by state **18:211–227**
 Bibliography of American mineralogy literature, by state **10:13–28**
 New species first described from New England, history and 1970 status of 99 names **1:46–53**
 Tri-State district (adjacent parts of Kansas, Missouri, Oklahoma): Fred “Boodle” Lane (dealer) **23:440–441h**; locality not specified **18:409s**

UNKNOWN MINERALS

- Acicular, coated with paulingite, Three Mile School, Grant County, OR **16:150p**
 Acicular, sky-blue, assoc. with heazelwoodite and pentlandite, Kop Krom mine, Turkey **9:286**
 Adamite-like mineral, yellow, Laurium, Greece **17:188**
 Ag, Bi, Pb sulfosalt, Little Three pegmatites, San Diego County, CA **20:106, 20:124**
 Ag-Hg sulfide-chloride, Ashburton Downs, Australia **24:216**
 Ag selenides, tellurides, tellurate, Broken Hills mine, New Zealand (3 minerals); Boulder County, CO; Soviet Far East and Kazakhstan; Daté mine, Japan; Australia, Ural Mountains, and Australia **13:397–398**
 Al, Ca phosphate-hydrate, colorless rhombs, Bell Pit, Newry, ME: **1:114**; id as goyazite **1:139**
 Allchar, Macedonia (formerly Yugoslavia) (3 TI minerals) **24:445**
 Alunite, Pb analog of, Ashburton Downs, Australia **24:216**
 Amorphous white coating with Ca, Mg, Si, Fe EDS peaks, Orford mine, Québec **25:343**
 Ashburton Downs, Western Australia **24:216**
 As, Sb trioxide, White Caps mine, NV **16:86**
 Ba, Mn, U, acicular bright yellow, Franklin, NJ **17:126–127q**
 Bi-Pb-Hg-Ag-Cu sulfosalts, 2 phases, Outlaw mine, Nye County, NV **22:178**
 Blixite-like mineral, Merehead quarry, UK **8:301**
 Blue, pale, slender crystals, Mammoth mine, AZ **11:176**
 Ca arsenate, thin plates, Gold Hill, NV **24:21**
 Caledonia mine, Ontonagon County, MI (2 species) **18:360**
 Carpholite-like mineral containing Li and K, Sawtooth batholith, ID **24:192**
 Ca tellurite-carbonate, yellow, orthorhombic, Moc-tezuma mine, Mexico **1:42**
 Colorless prismatic, steep terminations (UK#5), Point of Rocks quarry, NM **15:155**
 Coppery-red fibrous, chatoyant, in borax (UK “B-14”), Boron, CA **2:37n**
 Cu-Bi arsenate, minute square green plates, Gold Hill, NV **24:21**
 Cu, Fe arsenates: green acicular, frothy masses (UK#6a); blue-green micaceous (UK#6b), Grandview mine, AZ **2:220–221p,q**

- Cu, Fe, Pb arsenate, Broken Hill, New South Wales, Australia **19:433–434**
 CuFe(Sn,Sb,Si)O(OH), transparent pale green veinlets, Etta and Peerless pegmatites, South Dakota **17:383q**
 Cu hydroxide, nitrate, or oxalate, bright blue fibrous, Franklin, NJ **17:127q**
 Cu molybdate-hydroxide, bladed green to 2 cm, near Tia Maria, Chile **24:227**
 Cu, Zn sulfates, Broken Hill, New South Wales, Australia **19:434**
 Cyanotrichite-like acicular (UK#5), Grandview mine, AZ **2:219p,q, 2:221q**
 Evans-Lou pegmatite, Québec (several unknowns) **3:75**
 Fe, As, trace Cu, yellow, blue, greenish grey coating, Urucum pegmatite, Minas Gerais, Brazil **17:313n**
 Fe-Pb chloroarsenate, red platy, Laurium, Greece **17:188**
 Fe sulfate, hydrous, red prismatic crystals, Topeka-Kentucky Giant and Indiana veins, Ouray County, CO **25:376n**
 Fe tellurite, brown colloidal, Moctezuma mine, Mexico **1:42**
 Fe, Zn phosphates, Broken Hill, New South Wales, Australia **19:433**
 Foil-like habit similar to Vesuvius tenorite, New Water Mountains, AZ **14:119**
 Foote mine, NC (status of UKs #1, #2, #3, #7) **4:138n**
 Gorceixite, arsenate analog of, Ashburton Downs, Australia **24:216**
 Greenish-white pearly prismatic (UK#4), resembles apophyllite, Point of Rocks quarry, NM **15:155**
 Hydrocerussite-like mineral, white foliated, Laurium, Greece **17:184p, 17:188**
 Idria mine, Slovenia (formerly Yugoslavia), black, glossy, globular on dolomite matrix **22:207**
 K, Ba, Ti, Al silicate, clear bladed, Gem mine, CA **2:191–192p,q**
 Kombat mine, Namibia (several species) **17:341n**
 Ludlockite-like mineral, acicular red-orange, Laurium, Greece **17:184p, 17:188**
 MCGovernite-like mineral, Kombat mine, Namibia **22:423**
 “Mineral TK,” Tsumeb, Namibia **9:(114)**
 Minute, dull green prisms with heulandite, stilbite, New Water Mountains, AZ **14:119**
 Mn, As, Cu, B mineral, radial black blades to 8 mm, Långban, Sweden **10:216, 10:217p**
 Mn phyllosilicate, hydrated (“Foote unknown #2”), Foote mine, Cleveland County, NC **18:133–134c,q**
 Mn-Zn arsenate-hydroxite, black acicular, Franklin, NJ **17:127q**
 Mt. St-Hilaire, Québec: status of unknowns as of 1979 **10:99–100**; status of unknowns 1–84 **21:363–368**; UK#34, rhabdophane group **13:242**; UK#38 id as zakharovite **24:388n**; UK#50, hochelagaite **13:244**; UK#58 (four new species) **24:388n**; UK#59 id as normandite, UK#62 id as rouvilleite, UK#63 id as nalipoite, UK#72 id as lintisite, UK#81 id as sillinaite **22:386**; UK#84 **24:388n**; UK#88 (id as sazykinaite-(Y)) **24:388n**
 Ni carbonates (two species), Widgiemooltha, Western Australia **25:289–291p,q**
 Ni silicate, Orford mine, Québec **25:343**
 Paoli, Oklahoma area, 2 blue minerals, probably copper sulfates **17:374n**
 Pb-Ca, (pseudo?)hexagonal, Laurium, Greece **17:188**
 Pb, Cu, Sb, SO₄, Cl, blue monoclinic, Mammoth mine, AZ **11:176q**
 Pb, SiO, acicular, Mammoth mine, AZ **11:176**

GENERAL INDEX

- Pb, WO₃, Cl, yellow needles, Mammoth mine, AZ **11:176q**
- Phosphate, colorless, pink, yellow-green, isometric, Tip Top mine, South Dakota **17:248p, 17:249, 17:301**
- Phosphate, pseudo-cubic, pale blue, Mt. Mica, ME **23:424**
- Phosphate, steeply bipyramidal, white, Mt. Mica, ME **23:424**
- Pseudomalachite, arsenate analog, Ashburton Downs, Australia **24:216**
- Rapid Creek/Big Fish River area, Yukon, six phosphate minerals **23:Y38q**
- Sakhaite-like mineral, resembles harkerite, Kombat mine, Namibia **22:423**
- Sb, Pb, S; black, metallic, platy-acicular, Buca della Vena mine, Tuscany, Italy **17:267**
- Selenide minerals (4), El Dragón mine, Bolivia **21:139**
- Sphalerite-fluorite-like mineral, botryoidal to cottony white, Laurium, Greece **17:188**
- Steep pyramidal, purple, minute crystals, Newry, ME **6:201**
- Stibiconite-like mineral, x-ray pattern of stetefeldite but no silver, Saint-Pons, France **24:44**
- Stottite group minerals, Tsumeb, Namibia **4:28–29q**
- Th-bearing silicate (UK#1) containing Ti, Na, Ca, Ba, S, white acicular with brown ends, Point of Rocks quarry, NM **15:155p**
- Thorikosite-like mineral, yellow, Laurium, Greece **17:184p, 17:188**
- Th, Ti, Al silicate, Sherbrooke, Québec, Canada **20:219p**
- Tl minerals, three unknown, Allchar, Macedonia (formerly Yugoslavia) **24:445**
- Turquoise-like mineral, green crystals, Silver Bell mine, AZ **11:261n**
- UO tellurite, yellow micaceous orthorhombic, Moctezuma mine, Mexico **1:42**
- Wessels mine, Kalahari manganese field: azure-blue copper mineral **22:296p**; formula **22:480**; sepia-brown acicular-spherical manganese silicate to 8 mm **22:296–297**
- White, pearly octahedrons (UK#2) associated with acmite, analcite, UK#3, Point of Rocks quarry, NM **15:155**
- Wicksite-like mineral, green lamellar, Bull Moose mine, South Dakota **17:301**
- Zeolite, Java Sea, Indonesia **4:205q**
- Zn carbonate, white, pearly, Franklin, NJ **17:127q**
- Zn, U, fibrous yellow/green, Franklin, NJ **17:127q**
-
- URALBORITE**
- Toxicity **11:6**
- “URALITE”
- See Actinolite*
-
- URALOLITE**
- United States**
- Maine
- Dunton mine **9:99–100p,q, 16:(382)**
- Newry: acicular to 5 mm **6:201**; fibers, crusts **5:240n**
- New Hampshire
- Government pit, Carroll County (uncertain id) **14:(47)**
-
- URAMPHITE**
- Chernikovite (formerly hydrogen autunite) compared with **19:251q**
-
- URANCALCARITE**
- Zaire**
- Shinkolobwe mine **20:287**
-
- URANINITE**
- Metamict **4:220**
- Survey of occurrences and properties **5:79–86p,q**
- Toxicity **11:7**
- Australia**
- Queensland
- Mt. Isa-Cloncurry district **19:(474)**
- South Australia
- Moonta mines **19:(412)**
- Austria**
- Mitterberg mine, Salzburg province **17:(110)**
- Brazil**
- Bahia
- Pedra Preta pit, Brumado district (masses to 3 cm) **9:201**
- Minas Gerais
- Córrego do Urucum pegmatite **17:313p**
- Córrego Frio mine, near Linópolis **14:233**
- Énio pegmatite, near Galiléia (nodules; octahedral) **12:69**
- Jaguaraçu pegmatite (micro cubic) **25:170**
- Pamaró mine, near Linópolis **14:(235)**
- Telfrio mine, near Linópolis **14:(234)**
- Paraíba
- Alto Benedito pegmatite (grains) **22:185n**
- Canada**
- Northwest Territories
- Eldorado mine, Port Radium (“pitchblende”) **20:206p, 20:207**
- Ontario
- Bicroft mine, near Wilberforce (micro cubes) **13:111n**
- Cardiff mine, near Wilberforce **10:157, 13:80p**
- Fission (Richardson) mine, Haliburton County **10:157, 13:80, 13:200–201**
- Several localities (euhedral cubic) **13:80**
- Québec
- Evans-Lou pegmatite (cubes to 2 cm) **3:73**
- Gatineau Park (Chaput-Payne prospect), Gatineau County (crystals, twins to 7 cm) **11:79–81p,d,c**
- Czech Republic (formerly Czechoslovakia)**
- Jáchymov (St. Joachimsthal) (“pitchblende”) **17:15h**
- Greenland**
- Godthåbsfjord area (metamict) **24:G14n**
- Randbøldal area (“pitchblende”) **24:G49n**
- Italy**
- Lombardy
- Baveno area (grains) **14:165**
- Sardinia
- Arcu su Linnarbu, near Capoterra **18:(184)**
- South Africa**
- Transvaal and Orange Free State
- Witwatersrand gold field **23:219**
- United States**
- Arizona
- Campbell, Czar, and Denn shafts, Bisbee district (micro euhedral) **12:315**
- California
- Kalkar quarry, Santa Cruz County **17:322**
- Colorado
- Ophir district, San Miguel County (“pitchblende”) **10:359n**
- Connecticut
- Gillette quarry, Middlesex County **23:28n**
- Maine
- Standpipe Hill, Sagadahoc County: cuboctahedral to 2.3 cm **25:214p**; locality corrected to Swamp #1 quarry **25:386**
- Swamp #1 quarry, Sagadahoc County (sharp cuboctahedral) **24:383n**
- Upper Colton Hill pegmatite, Oxford County **22:(383)**
- New Mexico
- Poison Canyon, McKinley County **20:63n**
- Texas
- Clear Creek pegmatite, Burnet County (cubic to 1 cm) **8:90**
- Zaire**
- Luiswishi copper mine, Shaba **20:268h**
- Shinkolobwe mine **20:276–277p,q,c**
- Zambia**
- Kambove Hill mine (massive; 30 cm vein) **5:264**
-
- URANIUM MINERALOGY**
- See also names of species*
- Arcu su Linnarbu, Sardinia **18:181–184**
- Bancroft, Ontario, area (uranium, thorium) **10:153–158**
- Books recommended **9:32**
- Chernikovite (new mineral) **19:249–252**
- Cunha Baixa mine, Portugal **15:293–297**
- Italy **20:490b**
- Kambove Hill, Zambia **5:264**
- MacDonald mine, Ontario **13:199–200**
- Mary Kathleen deposit, Mt. Isa-Cloncurry region, Australia **19:474**
- Mounana, Gabon **6:237–249**
- Port Radium district, Northwest Territories, Canada **20:201–208**
- Rabejac quarry, France **24:463–464**
- Shaba (formerly Katanga), Zaire **9:32–33, 20:265–288**
- Survey of uraninite occurrences and properties **5:79–86**
- Talmessi deposit, Iran **24:463–464**
- Weisser Hirsch mine, Erzgebirge, Germany **17:12**
- Yates uranium mine, Québec **12:359–363**
-
- URANMICROLITE**
- United States**
- California
- Himalaya dike system, San Diego County (crystals to 12 mm) **8:468**
- Little Three pegmatites, San Diego County (microlite-uranmicrolite) **20:123q**
-
- URANOCIRCITE**
- See also Meta-uranocircite*
- Brazil**
- Minas Gerais
- São Pedro mine, near Suaçui (large crystals) **24:49n, 24:50p**
- France**
- Luzy, Saône et Loire (6 mm crystals; poss. autunite) **14:173**
- Gabon**
- Mounana (crystals to 4 mm) **6:244**
- Zaire**
- Shinkolobwe mine **20:287**
-
- URANOPHANE and URANOPHANE-β**
- Australia**
- South Australia
- Moonta mines **19:(412)**
- Canada**
- Northwest Territories
- Port Radium **20:(207)**
- Ontario
- Faraday (Madawaska) mine, near Bancroft: acicular, some in gypsum, also uranophane-β **10:157–158p**; micro uranophane-β **13:111n**; sprays to 1 cm, some uranophane-β **13:84p**
- Québec
- Evans-Lou pegmatite **3:73**
- Greenland**
- Randbøldal area (uranophane-β) **24:G49**

GENERAL INDEX

- Italy**
Sardinia
Arcu su Linnarbu, near Capoterra **18**:(184)
- Namibia**
Rössing (stout prisms) **24**:393n
- United States**
Connecticut
Gillette quarry, Middlesex County (micro acicular) **23**:28
Idaho
Sawtooth batholith (micro acicular) **24**:198
New Mexico
Poison Canyon, McKinley County **20**:63n
Texas
Valentine, Jeff Davis County: **19**:333n; radiating hemispheres **16**:149p
Utah
Posey mine, San Juan County **19**:(333)
- Zaire**
Musonoi mine **20**:284p
Shaba (formerly Katanga) **20**:287
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; laeite id as **16**:463–464q; vs. laeite **18**:250–252q
- Namibia**
Sandamab (laeite id as) **16**:463–464q
- United States**
New Hampshire
Palermo mine: laeite id as **16**:463–464q; vs. laeite **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)

GENERAL INDEX

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**

GENERAL INDEX

- 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)**
-
- 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**
-
- VASILITE**
- Bulgaria**
 Novoseltsi **23:433n**
-
- VATERITE**
- Canada**
 Québec
 Mt. St-Hilaire **23:429**
-
- 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
 Killie mine, Elko County **18:418–419**
-
- VAUXITE**
- Bolivia**
 Llallagua **5:37h**
- Miraflores mine, Hunauni (dark blue aggregates) **13:41–42p**
- Siglo XX mine, Llallagua **13:41n**
-
- VÄYRYNENITE**
- In pegmatite environments **4:124**
- Finland**
 Viitaniemi, near Eräjärvi **4:124, 9:(113)**
-
- VEATCHITE-A**
- Turkey**
 Killik and Hisarcik mines, Emet colemanite deposit (announced) **10:301h,q,c**
-
- VEENITE**
- Canada**
 Ontario
 Madoc (near) **13:94, 13:95p,q**
 Taylor farm, near Madoc **13:(80)**
-
- 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**
-
- VENEZUELA**
- El Dorado, Gran Sabana **24:223s**
 Santa Elena area gold placers **18:89m, 19:271s, 21:501s**
-
- VERMONT**
- Adopts “official gem” (grossular), “official mineral” (talc), “official rocks” (marble, slate, granite) **23:455**
- Bibliography of locality literature **18:226**
 Bibliography of mineralogy literature **10:27**
 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**
-
- 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**
-
- 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)**
 Achatrand (Achtaragda) River **18:159n**
 Chemyshevsk, Yakutsk **22:459**
 Vilui (Wilui) River district (“wiluite”) **18:432n**
- South Africa**
 Cape Province
 N’Chwaning II mine (3 mm euhedral) **22:294**
 Wessels mine (purple magnesian to 8 mm; 1 mm red) **22:294**
- Taiwan**
 Feng Tien mine (micro) **10:41p, 10:42**
- 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**
-
- 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

Bibliography of locality literature **18**:226

Bibliography of mineralogy literature **10**:27

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

Morefield mine, near Amelia, Amelia County **23**:428s

Nelson County **21**:208

Rocks and Minerals of Virginia (specimen set) **13**:175

Rutherford mine, near Amelia, Amelia County **23**:428s

Saltville (near), Smyth County **21**:485s

Virginia Glass Sand Corp. quarry, Gore, Frederick County **2**:223–224

Willis Mountain kyanite mine, Buckingham County **23**:428s

VISEITE

United States

California

Champion mine, Mono County (earthy) **8**:482n

VITUSITE-(Ce)

Canada

Québec

Mt. St-Hilaire: **18**:364n; micro crystals **23**:429n; prismatic to 4 mm **21**:344p, **21**:345–346p,d

VIVIANITE

In pegmatite environments **4**:123

Australia

Tasmania

Mt. Cleveland mine **19**:388

Bolivia

Huanuni **18**:245, **18**:365n

Ichucollo mine, Monserrat district (crystals to 20 cm) **6**:136

Morococala mine, Dalence province: crystals to 3 in **14**:388–389p; 10.7 cm prismatic **25**:382

Morococala, Oruro Dept. (clear green tabular to 15 cm) **23**:274p, **23**:276, **24**:237

Oruro Dept. (various localities) **6**:136

Santa Fe mine, Oruro Dept.: cabinet-size crystals **15**:45n; locality corrected to Morococala mine **15**:249

Brazil

Minas Gerais

Córrego do Urucum pegmatite **17**:313

Énio pegmatite, near Galiléia (crystals to several centimeters) **12**:70, **12**:71p

Galiléia (near): crystals to 1 cm **9**:41; 11 cm gemmy crystal **9**:316

Lavra da Ilha, near Taquaral (powdery patches) **4**:211

Linópolis (near) **20**:(394)

Telfrío mine, near Linópolis **14**:(234)

Canada

Yukon

Rapid Creek and Big Fish River areas (crystals to 5 cm) **23**:Y31–32p,d,c,q

England

Cornwall

Botallack district **24**:(282)

Derby

Derbyshire orefield **14**:(23)

Italy

Tuscany

Buca della Vena mine **17**:267n

Santa Barbara area mines, Upper Valdarno (as fossil leaves; nodules; crystals to 20 cm) **25**:297p, **25**:298

Serbia (formerly Yugoslavia)

Stari Trg mine, Trepča: **19**:124n; deep green to 7 cm **4**:60p

Trepča: crystals to 10 cm **9**:369; gemmy green **18**:242p, **18**:245n

Spain

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

Ukraine (formerly USSR)

Crimea **20**:74n, **20**:(398), **20**:485n

Kerch, Crimea: **17**:341n; in fossil bivalves **23**:269, **23**:271p

United States

Arkansas

Magnet Cove (micro) **10**:298

California

Darwin mines, Inyo County **15**:17n

Walnut Creek, Contra Costa County **20**:337–338c,p

Colorado

Ibex mine, Leadville district (5 cm crystals) **7**:288

Leadville district **16**:197

Little Jonny/Ibex mine, Leadville district (8 cm crystals) **16**:190

Florida

Clear Springs mine, Polk County (3 cm euhedral) **13**:40–41

Four localities **4**:120

Georgia

Highway 27 north of Lumpkin, Stewart County **10**:48s

Indiana

Bethel Church fossil dig, Pike County (rosettes of 1–2 mm crystals) **15**:356p

Maine

Bell Pit (micro prismatic) **1**:114

Dunton mine (crystals to 1 cm) **6**:202

Michigan

Cheney quarry, Eaton County **19**:332n

Nevada

Fortitude mine, near Battle Mountain **18**:360n, **21**:284n

New Hampshire

Palermo mine (chunks) **5**:278

New Jersey

Locality not specified **15**:144c

Mullica Hill, Gloucester County (crystalline; some altered to “kertschenite”) **11**:307–308

North Carolina

Ideal Cement Co. quarry, New Hanover County (white, blue earthy nodules; compact radiating crystalline) **5**:111–113p,q

South Dakota

Tip Top mine **17**:249c, **17**:251

VLADIMIRITE

Morocco

Bou Azzer **9**:73

United States

Michigan

Mohawk mine, Keweenaw County **23**:M68n

USSR (former)

Jouva

Kouvouaksi **19**:(256)

VLASOVITE

Canada

Québec

Kipawa complex, Timiskaming County **19**:334n, **21**:(486)

VOLBORTHITE

Canada

British Columbia

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

Prospects near Gowland Harbor, Quadra Island **15**:89

Chile

Mina la Verde, Copiapó district **9**:134s

Italy

Tuscany

Calagio quarry **18**:287

Val Pulita **18**:287

GENERAL INDEX

VOLCANIC MINERAL DEPOSITS

See also Zeolite Deposits

Ash Creek, AZ, with survey of similar occurrences **23:487–492**

Garnet Hill, NV (almandine-spessartine) **18:195–198**

Laacher See district, Germany **8:313–326**

Microminerals of the western volcanics: **16:137–145**; errata **16:501**

Moon **1:16–22**

Point of Rocks, NM **15:149–156**

Steamboat Springs, NV **16:25–31**

Thomas Range and Wah Wah Mountains, UT **10:261–278**

Volcanological display, Lyman House museum, HI **12:90**

VOLKONSKOITE

United States

Arizona

Campbell shaft, Bisbee (masses) **24:435n**

VOLTAITE

Australia

Queensland

Mt. Isa mine **19:484p**

Chile

Chuquicamata **9:328**

Greece

Plaka mine, Laurium **25:280**

United States

Arizona

Campbell shaft, Bisbee district (octahedrons to 1 cm) **12:315**

Cole shaft, Bisbee district (spongy aggregates) **12:315**

California

Geysers, The, Sonoma County (crystalline crusts) **24:351**

Iron Mountain mine, Shasta County (post-mining) **22:382n**

Utah

Dexter No. 7 mine, Emery County **19:(117), 19:333n**

VOLYNSKITE

United States

Arizona

Campbell shaft, Bisbee **24:435n**

VRBAITE

Macedonia (formerly Yugoslavia)

Allchar: **9:(113)**; tabular to 3 mm **24:445–446h,d,q**

VUAGNATITE

World occurrences **8:498h**

United States

California

Mendocino County **8:497–501h,d,q,p,c**

Red Mountain, Mendocino County (prismatic to 3 mm) **8:498–500p,q,c**

Russian River, Mendocino County (micro equant) **8:497–499q,c**

VUONNEMITE

Canada

Québec

Mt. St-Hilaire (tabular to 2 cm) **21:346d**

Poudrette quarry **18:(363)**

Greenland

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

VYUNTSAPKHITE-(Y)

Canada

Québec

Evans Lou pegmatite **18:365n**

GENERAL INDEX

- “WAD”
Indefinite mixture of soft, massive manganese oxides
United States
 Arizona
 79 mine **3:250–251**
-
- WADEITE
Australia
 Western Australia
 Argyle and Ellendale mines **21:562n**
- Canada**
 Québec
 Mt. St-Hilaire (tabular to 5 mm) **24:388n**
- Russia (formerly USSR)**
 Khibiny Massif, Kola Peninsula **23:(433)**
-
- WAGNERITE
Austria
 Wurfen (near), Salzburg **17:107**
- Canada**
 Québec
 Mt. St-Hilaire (tabular to 2 mm) **23:429n**
- United States**
 Maine
 Black Hawk mine, Hancock County (1 mm grains) **22:382**
-
- WAIRAKITE
United States
 Wyoming
 Yellowstone National Park (analcite-wairakite; micro) **12:33p,q**
-
- WAKABAYASHILITE
France
 Jas Roux, Haute Alpes **9:(113)**
- United States**
 Nevada
 White Caps mine, Nye County (acicular crystals to 2 cm) **16:84–85p**
-
- WAKEFIELDITE-(Ce), -(Y)
Canada
 British Columbia
 Yellow Lake (wakefieldite-(Ce)) **20:391**
- Québec
 Evans-Lou pegmatite (wakefieldite-(Y); stains) **3:73**
-
- WALENTAITE
United States
 South Dakota
 White Elephant mine, Custer County **17:300**
-
- WALES
See also United Kingdom
 Castell Carn Dochan mine, Llanuwchllyn **18:375s**
Great Metal Mines of Wales (Number One), The **7:317b**
 Tafts Well, near Cardiff **18:432s**
- Anglesey**
 Pant-y-Gaseg, Trwynbychan **19:337n, 20:395s**
 Parys Mountain **21:492s**
- Caernarvonshire (now part of Gwynedd)**
Cardiganshire (now part of Dyfed)
Clwyd
 Hendre quarry, Glyn-Ceiriog **19:337s, 20:395s, 23:89s**
 Moel Famau, west of Mold **18:375h**
- Dyfed**
 Bwlch-Glas mine, Ceulanymaesmawr/Talybont **13:151–153g,h,p, 21:492s**
 Eaglebrook mine, Nantymoch **21:492s**
 Eaglebook quarry, Nantymoch **19:337s**
 Gamallt, near Aberystwyth **18:375h**
 Hendre-Felen quarry, Ystradmeurig **21:492s**
 Llwyn Llwyd mine, Ysbyty Ystwyth **21:492s**
 Marloes Bay, Haversforswest **21:492s**
- Nantycagel (Eaglebrook) mine, Ceulanymaesmawr **13:168h,p,s**
 Ogoau (Roman Deep) mine, Dolaucothi, near Pumpsaint **18:(375)**
Old Metal Mines of Mid-Wales, The. Part 1: Cardiganshire—South of Devil’s Bridge; Part 2: Cardiganshire—The Rheidol to Gonigan; Part 3: Cardiganshire—North of Gonigan **7:317b**
 Pen-Y-Clun mine, Llandiloes **21:492s**
 Pen-y-Clun quarry, Llanidloes **19:337s**
 Plynlimon (near) (see Bwlch-Glas mine)
- Gwynedd**
 Aberllyn mine **15:338s**
 Bennallt (Benalt) mine, Rhiw **8:390s, 20:395s, 22:390s**
 Cefn Coch mine, Dolgellau gold belt **18:(375)**
 Clogau (St. David’s) mine, Dolgellau gold belt **18:375h**
 Dolgellau gold belt **18:375g**
 Drws-y-Coed mine, Llandwrog **13:167–168g**
 Fron Oleu (Fronolen), Prenteg (see Prenteg)
 Gwynfynydd mine, Dolgellau gold belt **18:375h**
 Prenteg, Tremadog **20:395s, 23:391–399h,m,p,g**
 Tremadoc (Tremadog) (see Prenteg)
 Vigra mine, Dolgellau gold belt **18:375h**
- Mid Glamorgan**
 Coed Ely colliery, Llantrisant **21:492s**
 Gelli colliery, Llantrisant **21:492s**
 Scotch Collary, Gilfach Goch **20:395s**
 Tŷ Coch **14:203s**
- Powys**
 Cwm Orog mine, Llangynog **24:392s**
 Dylife mine Old Workings, Dylife **21:492s**
-
- WALLISITE
Switzerland
 Lengenbach quarry **8:276q, 8:279, 18:(368)**
-
- WALLKILDELLITE
United States
 New Jersey
 Sterling Hill **25:308h**
-
- WARDITE
 Four world localities **4:120**
- Australia**
 South Australia
 Iron Monarch quarry, Iron Knob: crandallite after **12:106n**; micro octahedral **12:105n**
- Western Australia
 Milgun Station **9:(113)**
- Austria**
 Millstätter Seenrücken, Carinthia **17:(110)**
- Brazil**
 Minas Gerais
 Laranjeiras mine (micro crystals) **11:379**
 Lavra da Ilha (crystals to 5 mm) **4:210–212p**
 Taquaral (8 mm crystals) **3:14–15p**
- Canada**
 Yukon
 Rapid Creek: **15:(45)**; pseudo-octahedral to 3 cm **23:Y31d,c, 23:Y33p**
- United States**
 Maine
 Newry area (crystals to 2 mm) **6:196p, 6:199**
- New Hampshire
 Beryl Mountain mine, Merrimack County **4:125**
 G. E. Smith mine, Sullivan County **4:(143)**
- South Dakota
 Tip Top mine **18:172**
-
- WARIKAHNITE
Namibia
 Tsumeb **13:139p, 13:144c**
-
- WARWICKITE
Canada
 Ontario
 S. Baptiste Lake Road, near Bancroft: **13:80n**; crystals to 5 mm **13:226p**
 Wilberforce area **13:(111)**
- United States**
 New York
 Amity area, Orange County (crystals to 25 mm) **9:89, 9:90p**
-
- WASHINGTON
 Bald Hornet #3 claim (Blue Mountain Saddle), near Mt. Teneriffe, King County **17:208–209s**
 Bibliography of locality literature **18:226–227**
 Bibliography of mineralogy literature **10:27–28**
 Blue Mountain Saddle (see Bald Hornet claim)
 Cle Elum, Kittitas County **13:365s, 13:368s**
 Daybreak mine, Mt. Spokane, Spokane County **20:161p**
 Denny Mountain, King County **8:14–18h,g,m,p, 14:365s, 18:141s, 18:146s**
Gems and Minerals of Washington: 9:256b; brochure **15:311b**
 Germania mine **12:83s**
 Green River Gorge, Franklin, King County **3:65s**
 King County **9:37s, 9:221s, 9:350g,m, 10:189–190s**
 Lucky Break mine, Skamania County **18:361s**
 Metaline Falls, Pend Oreille County **22:64s, 22:71s**
Minerals of Washington 8:416b
 Monte Cristo, Snohomish County **13:46s**
 North Bend area, King County **19:333s, 21:492s**
 Northwest Paving quarry, east of Pullman, Whitman County **5:157–159m**
 Pend Oreille County (locality not specified) **13:181s**
 Rainy mine, King County **23:428s**
 Robertson quarry, Mason County **18:361s**
 Rock Creek, Skamania County **17:271s, 18:435s**
 Rockhound Gulch, Denny Mountain (see Denny Mountain)
Rockhound’s Guide to Washington, The 11:51b
 Rock Island Dam, Columbia River near Wenatchee, Douglas/Chelan counties **14:109, 20:458s, 20:463s**
 Skookumchuck Dam, near Bucoda and Tenino, Thurston County **3:30–34h,g**
 Spruce claim, Goldmeyer Hot Springs, King County **18:143s, 21:485s**
 Spruce Peak deposit, between Baring and North Bend, King County **9:349–358p,g,h,m**
 Vesper Peak (near), Snohomish County **10:297s, 13:181**
 Washington Pass area, Okanogan National Forest: **9:253s, 18:361s, 20:152s, 23:79–80h**; “Okonoganite Boulder” **23:428**
 Whitlow quarry, east of Pullman, Whitman County **5:157–159m**
-
- WATTERSITE
United States
 California
 Clear Creek claim, San Benito County (newly described) **22:269–272h,c,q,p**
-
- WAVELLITE
Australia
 South Australia
 Iron Monarch quarry, Iron Knob: **12:105n**; woodhouseite after **12:106n**
 Tom’s quarry, near Kapunda (orange micro) **12:394**
- Bolivia**
 Llallagua (white balls to 2 cm) **4:278–279**
 Oruro district (3 localities) (crystals to 5 mm) **6:136**

GENERAL INDEX

- Germany**
Obersachsen
Tagebau Lichtenberg **4:42**
- Spain**
Palazuuelos de las Cuevas, Zamora **25:222n**
- Sweden**
Leveäniemi iron mine, Norrbotten **20:346**
- United States**
Alabama
Erin, Clay County (micro crystals) **9:390p, 9:391**
Indian Mountain, Cherokee County: **20:361**; see also Wavellite—United States—Georgia—Brewer iron mine
Jacksonville (near), Calhoun County **9:389p, 9:390–391**
Rock Run Station **20:358**
Arizona
Mineral Park mine, Mohave County: **11:264**; spheres to 18 mm **11:243–244p**
Arkansas
County Pit, Mauldin Mountain, Montgomery County: **20:(387), 25:214**; clay after radial spheres **16:293**; euhedral single crystals **16:292–294c,p,d**; 5–6 mm spheres **21:97**; spheres to 1 cm **21:481n**
Dug Hill, Garland County (undamaged balls to 2.5 cm) **4:294p**
Potash Sulfur Springs, Garland County (clay after radial) **16:293**
Georgia
Brewer iron mine, Polk County **10:48–49p, 20:361**
New Mexico
Harding mine (unconfirmed) **8:124**
Phelps-Dodge mine, Grant County **20:57**
Pennsylvania
Bachman mine, Northumberland County **11:311n**
Moore's Hill, Cumberland County (nodules; micro crystals) **11:310p, 11:311**
Tennessee
Wood mine, Cocke County: **7:83n**; acicular sprays **2:162p**
Virginia
Kelly Bank mine, near Vesuvius (micro) **10:49p**
- Zaire**
Mushishimano, Shaba (bialite id as) **1:30n**
-
- WYLANDITE**
England
Cornwall
Wheal Phoenix, Liskeard **19:337n**
-
- WEDDELLITE**
England
Derby
Fall Gate quarry, near Ashover (micro) **21:492**
- United States**
Oregon
Biggs (some whewellite after) **17:(133)**
-
- WEEKSITE**
United States
Utah
Autunite #8 claim, Topaz Mountain, Juab County **10:271**
-
- WEGSCHEIDERITE**
United States
Colorado, Wyoming, Utah
Green River formation **8:371**
-
- “WEHLITE”**
Mixture of pilsenite and hessite
- Canada**
British Columbia
White Elephant group (fist-sized masses) **2:208**
-
- “WEIBYEITE”**
See Bastnäsite
-
- WEILITE**
France
Ste. Marie-aux-Mines, Alsace region **19:(256)**
- United States**
Nevada
Getchell mine, Humboldt County **19:255p**
-
- WEISSBERGITE**
Macedonia (formerly Yugoslavia)
Allchar (micro prismatic) **24:445**
- United States**
Nevada
Carlin mine, Eureka County **16:55–56h**
-
- WEISSITE**
Australia
Western Australia
Kalgoorlie **18:(28)**
-
- WELLSITE**
United States
California
Hale Creek mine, Trinity County (covellite on) **19:(128)**
Colorado, Wyoming, Utah
Green River formation (harmotome-wellsite) **8:368–371**
Oregon
Clackamas River, Estacada **8:(391)**
-
- WELOGANITE**
Canada
Québec
Francon quarry: **9:104p, 24:377p, 24:378**; 11 cm crystal **17:339n**; “pagodas” **15:111p**
Mt. St-Hilaire (fragments) **21:346**
Poudrette quarry **19:334n**
St. Michel (newly described; crystals to 3 cm) **1:125h,q,d**
-
- WENDWILSONITE**
United States
New Jersey
Franklin/Sterling Hill **19:(274)**
-
- WERMLANDITE**
Sweden
Långban: **10:217p**; in museum at Långban **22:49**; locality unclear **9:58n**
-
- WESTERVELDITE**
Greenland
Ilímaussaq complex, Tunugdliarfik Fjord **8:517s**
-
- WEST VIRGINIA**
Bibliography of locality literature **18:227**
Bibliography of mineralogy literature **10:28**
Hagens **19:117s**
Sugar Grove, Pendleton County **20:457–463s**
-
- WHEATLEYITE**
United States
Pennsylvania
Phoenixville **18:361h, 20:383**
-
- “WHELANITE”**
Species status uncertain
- United States**
Arizona
Christmas mine, Gila County **9:(113), 9:(114), 11:261n**
Pinal County **9:(113)**
-
- Utah
Bwana mine, Beaver County **9:(114)**
-
- WHERRYITE**
Crystals commonly found in plants **5:197–198, 6:46–47**
- United States**
Arizona
Mammoth mine, Pinal County **11:176**
-
- WHEWELLITE**
Crystals commonly found in plants **5:197–198, 6:46–47**
- Germany**
Obersachsen
Paitzdorf mine, Ronneburg (crystals to 3 cm) **22:459**
Schlema **23:258p**
Zwickau (crystals to 3 cm) **22:221n**
- United States**
Montana
Havre (near), Hill County **17:132**
Ohio
Milan (near), Erie/Huron County **17:132–133**
Oregon
Biggs (some after weddellite) **17:133**
South Dakota
Cheyenne River, Meade County **17:131**
Elk Creek, Meade County **17:131p, 18:(128)**
Meade County **17:131–132c,d,q**
Utah
Radon mine, San Juan County **17:132d**
-
- WHITEITE-(CaFeMg), -(CaMnMg), -(MnFeMg)**
Brazil
Minas Gerais
Énio pegmatite, near Galiléia (crystals to 4 mm) **12:72**
Lavra da Ilha, near Taquaral (announced; crystals to 5 mm) **10:247h,q,c**
Linópolis (whiteite group) **20:(394)**
Taquaral (“aluminum analog of jahnsite”) **8:(517)**
- Canada**
Yukon
Blow River area (announced; crystals to 1.5 cm) **10:247h,q,c**
Rapid Creek/Big Fish River area: **15:(45), 19:(335), 20:393**; “aluminum analog of jahnsite” **8:(517)**; whiteite-(CaFeMg); blocky to 2.3 cm **23:Y31–34h,p,d,c,q**
- United States**
South Dakota
Tip Top mine **17:249c, 17:250**
-
- WHITLOCKITE**
In pegmatite environments **4:125–126**
Vs. merrillite **2:277–279h,q**
- Canada**
Yukon
Rapid Creek area (masses) **23:Y34**
- Moon**
Localities not specified **1:22n**
- United States**
Maine
Bell pit (crystals to 2 mm) **6:203p**
Dunton mine **16:382n**
New Hampshire
Palermo #1 pegmatite **4:126, 4:232**
South Dakota
Tip Top mine **4:126, 8:(527), 14:195–197p, 17:249d, 17:250–251**
-
- WHITMOREITE**
Australia
New South Wales
Kintore opencut, Broken Hill **19:433q**

GENERAL INDEX

- United States**
 Maine
 Bell pit **6:203**
 New Hampshire
 Fitzgibbon pegmatite, Cheshire County **17:(300)**
 Palermo #1 pegmatite **17:(300)**
 South Dakota
 Big Chief mine, Pennington County **17:300p,h-301d**
-
- “**WHITNEYITE**”
Discredited
United States
 Michigan
 Keweenaw Peninsula **23:M69**
-
- WICKENBURGITE**
United States
 Arizona
 Potter-Cramer claim, Maricopa County **19:(139)**
 Prospect near Moon Anchor mine, Maricopa County (micro acicular) **22:381**
 Wickenburg area, Maricopa County (announced) **1:80h,q**
-
- WICKMANITE**
Bolivia
 Llallagua (jeanbandyite oriented on) **13:235-238p,q**
Morocco
 El Hamman **13:238**
Norway
 Tvedalen, Larvik **13:238**
Russia (formerly USSR)
 Pitkäranta, Karelia **13:238**
Sweden
 Långban **4:27h, 13:238**
United States
 North Carolina
 Foote mine (new polymorph) **1:(92)**
-
- WICKSITE**
Canada
 Yukon
 Big Fish River area (platy aggregates to 1 cm) **23:Y37**
-
- WIDGIEMOOLTHALITE**
Australia
 Western Australia
 132 North deposit, Widgiemooltha district (radial spheres) **25:289p, 25:290**
-
- WILCOXITE**
United States
 New Mexico
 Lone Pine mine, Catron County **20:11**
-
- “**WILKEITE**”
Silician sulfatian apatite or phosphatian fluorellastadite
United States
 California
 Crestmore quarry, Riverside County **9:(113)**
-
- WILKINSONITE**
Australia
 New South Wales
 Warrum Bungle volcano **22:(387)**
-
- WILLEMITTE**
Australia
 South Australia
 Beltana mine (massive colloform; prismatic crystals) **22:455c,d**
Brazil
 Minas Gerais
 Januaria-Itacarambi area (micro crystals) **6:288**
-
- Canada**
 Québec
 Mt. St-Hilaire (prismatic to 10 cm; fl. green) **21:346**
-
- Greece**
 Plaka mine, Laurium **7:122n**
-
- Mexico**
 Chihuahua
 Los Lamentos (micro crystals, tufts) **11:286**
-
- Namibia**
 Tsumeb: after azurite **12:45n**; crusts, crystals, some manganoan “troostite” **8:T34, 8:T50, 8:T67p**
-
- United States**
 Arizona
 Apache mine, Gila County (micro prismatic) **2:255n**
 Campbell shaft, Bisbee district (fluorescent) **12:315**
 Hilltop mine, Cochise County (3 mm, some pink) **14:124n**
 Mammoth mine, Pinal County (micro crystals; sprays; crusts) **11:170-171**
 Old Yuma mine, Pima County **14:107n**
 Red Cloud mine, La Paz County (micro crystals; fibers) **11:148**
 Rowley mine, Maricopa County (micro white tufts) **5:24, 17:404n, 22:381n**
 Silver Hill mine, Pima County **19:(312)**
 Tonopah-Belmont mine, Maricopa County **19:141p, 19:143**
 New Jersey
 Andover iron mine, Sussex County (micro crystals) **3:63c,q**
 Franklin/Sterling Hill: **1:(86), 13:35**; fluorescent **19:275**; micro acicular **12:371p**; micro euhedral **5:36c, 5:37d**; some “troostite” **19:273**
 Numerous early localities **3:63-64h**
 New Mexico
 Petroglyph mine, Sierra County **20:59n**
 Socorro Peak, Socorro County **20:61n**
 Stonewall mine, Socorro County **20:24**
 Tres Hermanas mts, Luna County **20:57n**
-
- Zambia**
 Broken Hill mine (crystals to 1 cm) **11:347-348**
-
- WILLHENDERSONITE**
Italy
 Umbria
 San Venanzo quarry (species announced) **15:(258)**
-
- WILLYAMITE**
Australia
 New South Wales
 Australian Broken Hill Consols mine, Broken Hill **19:(363)**
 Queensland
 Mt. Isa mine **19:484**
-
- WILUITE**
 See Vesuvianite
 “**WINNIEITE**”
 See also Aragonite
 Locality not specified **5:222**
-
- WISCONSIN**
 Bibliography of locality literature **18:227**
 Bibliography of mineralogy literature **10:28**
 Florence County **18:361s**
 Hurley, Iron County **18:409s**
 Montreal mine, Montreal, Iron County **11:59s**
 Rib Mountain, north of Wausau, Marathon County **8:64s, 8:389-390, 12:93h,g,m,p**
 Shullsburg, Lafayette County (prob. locality) **2:248ff,s**
-
- Vulcan quarry, Racine, Racine County **25:380-381h**
-
- WISERITE**
Namibia
 Kombat mine (1 cm prismatic) **22:423h**
-
- WITHERITE**
 Toxicity **11:6**
England
 Cumbria
 Nentsberry Hags mine: **25:44n, 25:145n**;
 calcite after, to 2.5 cm **24:394n**
 Derby
 Derbyshire orefield **14:(20)**
 Northumberland (see Cumbria)
-
- Namibia**
 Tsumeb (massive; minute crystals) **8:T34, 8:T85p**
-
- Scotland**
 Dumfries and Galloway
 New Glencrieff mine, Wanlockhead (after barite) **12:239n**
-
- United States**
 California
 Hale Creek mine, Trinity County **19:(128)**
 Kalkar quarry, Santa Cruz County **17:322n**
 Illinois
 Minerva mine, Cave in Rock **5:266-269q**
-
- Wales**
 Dyfed
 Pen-y-Clun quarry: pseudohexagonal twins **21:492n**; twinned **19:337n**
-
- WITTICHENITE**
Australia
 South Australia
 Cattlegrid pit, Mount Gunson mines **14:50, 15:110p**
United States
 Arizona
 Bisbee district **12:315**
 Campbell shaft, Bisbee **24:435n**
 Magma mine, Pinal County **14:(82)**
 Colorado
 Silverton district, San Juan County **10:359n**
 Virginia
 Fairfax quarry, Fairfax County (micro crystals) **3:177, 3:179p**
-
- WODGINITE**
Australia
 Western Australia
 Greenbushes tinfield **9:83-84h**
Brazil
 Minas Gerais
 Lavra Jabuti, Baixio (epitaxial on cassiterite; crystals to 4 cm) **9:14-18p,q,c**
 Linópolis (near) (crystals to 12 cm) **21:253n**
-
- United States**
 Idaho
 Sawtooth batholith (minute prismatic) **24:198**
 Maine
 Bemis Stream prospect, D Township **22:382**
 Bennett quarry: **22:382**; micro inclusions **25:183**
 Black Mountain, Oxford County **22:382**
 Newry (near) **22:382**
-
- WOELSENDORFITE**
 See Wölsendorfite
-
- WÖHLERITE**
Canada
 Québec
 Mt. St-Hilaire: **10:105, 13:(242), 23:429n**;
 tabular to 5 mm **21:344p, 21:346-347d**
Norway
 Langesundfjord area **9:(113)**

GENERAL INDEX

WOLFEITE

In pegmatite environments **4**:112
 Numerous world occurrences **4**:118

Brazil

Minas Gerais
 Énio pegmatite, near Galiléia (masses resembling garnet) **12**:70

Canada

Yukon
 Big Fish River area (crude radial nodules) **23**:Y36p, **23**:Y37q

United States

New Hampshire
 Keyes mine, Orange **17**:342n
 Palermo mine **4**:112, **5**:277h

WOLFRAMITE

Sensitive to temperature changes **2**:75
 Vs. ferberite, hübnerite **8**:393

Brazil

Minas Gerais
 Énio pegmatite, near Galiléia **12**:69

Canada

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

China

Hengyang, Hunan **20**:(69), **20**:394n

England

Cornwall
 Botallack district (massive) **24**:282n

Kazakhstan (formerly USSR)

Akschatau (some ferberite labeled as) **25**:61
 Kara-Oba (large blades) **23**:494n

Korea

Taewha mine, Chungchongpukdo **5**:222n
 Tong Wha **8**:393–394q
 Wolak mine, Chungchongpukdo **5**:222n

Peru

Julcani district **5**:219n
 Mundo Nuevo **15**:45n

Portugal

Panasqueira mine: id as ferberite **8**:393–394q,p;
 to 20 cm **2**:75p,c

United States

Arizona
 Campbell shaft, Bisbee **24**:435n
 California
 Monitor-Mogul district, Alpine County **22**:(39)
 Colorado
 Garbutt mine, Leadville district (some after scheelite) **16**:190n
 Kittie Mac mine, San Juan County **7**:297p,
7:301n, **10**:359n
 Little Jonny/Ibex mine, Leadville district
 (mostly massive) **16**:190
 Silver Bell mine, San Miguel County (6 mm
 crystals) **7**:306n
 Connecticut
 Trumbull, Fairfield County (after scheelite)
1:(86), **23**:(499)

WOLLASTONITE

Brazil

São Paulo
 Jacupiranga mine **15**:269

Canada

British Columbia
 Ice River complex **12**:224
 Ontario
 York River tectite zone near Bancroft **13**:(227)
 Québec
 Jeffrey mine: **21**:(393); compact fibrous;
 felted **10**:75–76
 Mt. St-Hilaire (granular, fibrous) **21**:347n

South Africa

Cape Province
 Wessels mine **22**:296

United States

Arizona
 Bisbee district **12**:315
 California
 Darwin district, Inyo County **15**:17n
 Jensen quarry, Riverside County **15**:289n
 Colorado
 Silverton district, San Juan County **10**:359n
 Connecticut
 Strickland quarry, Litchfield County (15 cm
 crystals) **4**:85
 Michigan
 Isle Royale lode, Houghton County (micro
 fibrous; id as xonotlite) **23**:M68n
 New Mexico
 Magdalena district, Socorro County **20**:24
 New Jersey
 Franklin/Sterling Hill (fl.) **19**:275
 New York
 Gouverneur Talc County, #4 quarry, Lewis
 County (acicular to 2 mm) **24**:383n

WÖLSENDORFITE

Brazil

Minas Gerais
 Córrego do Urucum pegmatite **17**:313

Greenland

Randbøldal area (barian; minute crystals) **24**:G49

Zaire

Shinkolobwe mine **20**:287–288

WOODHOUSEITE

Australia

South Australia
 Iron Monarch quarry, Iron Knob (euhedral
 micro; after wavellite) **12**:106n

Brazil

Bahia
 Brumado: **20**:394; id as svanbergite **23**:432n

United States

California
 Champion mine, Mono County **8**:480, **8**:483p,
8:485d, **18**:(360), **19**:331n

WOODRUFFITE

United States

California
 Kalkar quarry, Santa Cruz County (probable
 id) **17**:322
 New Jersey
 Franklin/Sterling Hill **19**:(274)

WOODWARDITE

England

Cornwall
 Botallack district **24**:(282)
 Locality not specified **9**:(113)

WROEWOLFEITE

England

Cumbria
 Tynebottom mine **13**:168
 Devon
 Wheal Friendship, Mary Tavy **13**:168–169
 Shropshire
 Ladywell mine, Shelve **13**:167, **13**:169p,
13:170q

Italy

Sardinia
 Santa Lucia **19**:308–309p

United States

Massachusetts
 Loudville mine, Hampshire County: **6**:297n;
 micro **13**:45p, **13**:46

Wales

Dyfed
 Eaglebrook mine (crystals to 2 mm) **21**:492n
 Nantycagel (Eaglebrook) mine **13**:168,
13:169p, **13**:170q

Gwynedd

Drws-y-Coed mine **13**:167–168

WULFENITE

Acicular (several localities) **11**:264
 Historical and world locality survey **3**:148–150ff,
3:198–201

Sources of color **3**:200–201q
 Symposium abstracts (1990) **21**:98–100
 Synthetic **21**:99

Twinning **21**:99

Vs. stolzite **21**:99–100

Australia

New South Wales
 Broken Hill: **7**:31; resembles stolzite **12**:110
 Kintore opencut, Broken Hill **19**:(428)
 Old 25 pipe, Kingsgate mines (micro bi-
 pyramids) **16**:288–289p

Northern Territory

Brown's deposit, near Rum Jungle **11**:289n,
11:290p

Western Australia

Ashburton Downs **24**:216
 Whim Creek **20**:393c

Austria

Bleiberg: **3**:148, **3**:150p, **17**:107h; some dark grey
 from galena inclusions **17**:364–369p,d,h,c
 Stefanie mine, Bleiberg **17**:109p

Brazil

São Paulo
 Itapirapuã prospect, Ribeira Valley (tabular
 to 1 cm) **6**:288

Canada

British Columbia
 Society Girl mine, near Moyie (micro) **15**:93n
 New Brunswick
 Mt. Pleasant, Charlotte County **18**:362n
 Québec

Gatineau Park (Chaput-Payne prospect),
 Gatineau County (white coating) **11**:80
 Mt. St-Hilaire: minute acicular, prismatic
21:347; needles **10**:103, **10**:106p

Chile

Chuquicamata (grey massive) **9**:330

China

Guansu province (thick, dark red crystals)
18:(331)

Congo

Sanda mine, Mindouli region (tiny orange)
24:394n

Czech Republic (formerly Czechoslovakia)

Příbram (galena-coated) **3**:148

England

Somerset
 Higher Pitts mine, near Wells **8**:302n
 Merehead quarry, near Cranmore **8**:302

France

Les Farges mine, Corrèze **11**:29, **13**:265p

Greece

Kamaréza mine, Laurium **7**:123n

Iran

Chah Kharboze, near Anarak (deep red) **3**:201

Italy

Sardinia
 Sa Duchessa mine: **19**:(308); tabular to
 bipyramidal **15**:372n

Kazakhstan (formerly USSR)

Ajaguz (micro red pyramidal) **25**:139p, **25**:141
 Sit Schag **23**:495n

Mexico

Characteristics of deposits **21**:100

Chihuahua

Ahumada mine, Los Lamentos district **13**:318–
 319

Los Lamentos district: blocky, zoned **21**:253;
 tabular to 5.9 cm, blocky, steep pyramidal
11:282–284p; thick yellow **11**:189, **11**:190p

GENERAL INDEX

- San Antonio mine, Santa Eulalia district **14**:170n
 San Carlos mine **3**:180n, **3**:199n
 San Pedro Corralitos (near) **3**:199, **3**:200p, **15**:240–241p
 Villa Ahumada, Los Lamentos district (some pyramidal) **3**:198–199p
- Durango**
 Ojuela mine: **3**:199; green **14**:57n
- Sonora**
 Cerro Prieto: crystals to 7.5 cm **3**:180–181p; various habits **3**:199–200p
 San Francisco mine: crystals to 5 cm **8**:58; tabular to 4 cm **25**:215
- Morocco**
 Locality not specified **10**:188n
 Mibladen **7**:243, **7**:245p
 Oujda (complex pyramidal) **10**:297
 Touissit mine, near Oujda: **11**:114; crystals to 10 cm **11**:61
 Zelijda mine, shaft #11, Touissit **15**:44p, **15**:45n
- Namibia**
 Tsumeb: **3**:200, **10**:113; blue pyramidal **8**:86–87p,d,c,q; grey to 11 cm **10**:114p; intergrown crystals to 60 cm, various colors, some tungstian, “chillagite” **8**:T34–35, **8**:T50, **8**:T79–82p, **8**:T86p
- Slovenia (formerly Yugoslavia)**
 Helena mine, Črna (formerly Schwarzenbach, Austria) **3**:148
 Mežica (formerly Mies) mine: **22**:99p; barrel-shaped to 5 mm **9**:369; tabular to 4 cm **22**:100–101, **22**:102–103p
 Stephanie mine, Mežica **3**:148
- Switzerland**
 Lungen Valley, Maderane (micro) **6**:309p
- United States**
- Arizona**
 Campbell shaft, Bisbee district (colorless to 8 mm, orange to 2 cm) **12**:315
 C & B mine, Gila County **11**:218p
 Cole shaft, Bisbee (colorless to 8 mm) **24**:435n
 Defiance and adjoining mines, Cochise County: **11**:264; flat crystals to 7 cm, steep bipyramidal **11**:205, **11**:207–208p
 Defiance mine, Cochise County: thin yellow to 2 cm **24**:45, **24**:47p; 2.5 cm brown **3**:198–199p
 Dives mine (see Padre Kino mine)
 Glove mine, Santa Cruz County: thin crystals to 11 cm; smaller crystals almost cubic **3**:198–199p; various colors and habits, photos of huge pocket *in situ* **14**:299–306; zoned with descloizite **14**:305
 Great Southern mine, Yavapai County (acicular yellow) **15**:112p
 Grey Horse mine, Pinal County **11**:232n
 Hamburg mine, La Paz County (red to 1.5 cm) **11**:138–139p
 Hilltop mine, Cochise County: **3**:183p; yellow crystals to 12 cm **14**:124–126p
 Holbrook shaft, Bisbee district (3 mm) **12**:315
 Magma mine, Pinal County **14**:(82)
 Mammoth (Mammoth-St. Anthony) mine, Pinal County: **3**:150; crystals to 8 cm **11**:163p, **11**:167p, **11**:171d
 Melissa mine, La Paz County: red, low bipyramidal **3**:150p, **11**:139; to 1 cm **21**:161, **21**:164p
 Mineral Park mine, Mohave County (prismatic; oriented growths) **11**:244p
 New Water Mountains, La Paz County **14**:(119)
- Old Yuma mine, Pima County: **3**:183, **18**:359n; 5 cm orange crystals; some black auriferous; some vanadinite after **14**:100–101p, **14**:104–107p,d; micro **11**:261, **11**:262p
 Padre Kino mine, La Paz County: steep bipyramidal **21**:162; steep bipyramids **15**:43
 Red Cloud mine, La Paz County: **3**:150p, **20**:(70), **20**:146, **20**:(387), **21**:159–161p, **21**:164–165p; chromian red-orange, crystals to 6 cm **11**:142p, **11**:147q,c; 1938 discovery; crystals to 6 cm **6**:176–179; 3–4 cm crystals **16**:497–499p
 Rowley mine, Maricopa County: **3**:182, **19**:(210); 1.2–2.8 cm crystals; some vanadinite perimorphs after **17**:404–405p; orange to 2 cm **22**:381; orange, yellow; thin tabular to 6 mm **5**:18d, **5**:19–22p
 79 mine, Gila County: **3**:182; clear yellow; red pyramidal **3**:253, **3**:254, **3**:261p, **3**:267p, **3**:271d; 38 mm crystal **7**:55, **7**:57p
 Silver Bill mine, Cochise County: micro **11**:261n, **11**:262p; thin yellow to 2 cm **24**:45, **24**:47p; zoned crystals **14**:128p, **14**:130
 Tombstone district, Cochise County **11**:252p, **11**:254–255n, **20**:75, **20**:387
 Tonopah-Belmont mine, Maricopa County **19**:141p, **19**:143
 Total Wreck mine, Pima County: **17**:341n; some mottramite after **3**:182
 Toughnut mine, Cochise County: **3**:182; yellow **21**:481n
- California**
 Blue Bell mine, San Bernardino County (blebs, micro crystals) **8**:496
 Empress mine, Inyo County **15**:17n
 Kalkar quarry, Santa Cruz County **17**:323n
 Thompson mine, Inyo County (micro) **15**:17n
 Zinc Hill mine, Inyo County (micro) **15**:17n
- Colorado**
 Bandora mine, San Juan County **19**:245, **19**:246
 Three localities **21**:100
- Connecticut**
 Thomaston Dam, Litchfield County (elongated) **10**:240
- Idaho**
 Sherman mine, Shoshone County (1 mm red-orange) **13**:280–281
- Maine**
 Upper Colton Hill pegmatite, Oxford County (4 mm blocky) **22**:383
- Massachusetts**
 Loudville mine, Hampshire County: **3**:148; micro bipyramidal **13**:45p, **13**:46; numerous habits to 1 cm **6**:296, **6**:298d
- Nevada**
 Chalk Mountain mine, Churchill County (red-orange crystals to 1 cm) **13**:221
 Downeyville mine, Nye County (to 1 cm) **22**:383
 Killie mine, Elko County **18**:419
- New Mexico**
 Bobbi Dee mine, Sierra County **20**:60n
 Hansonburg district, Socorro County **20**:44
 Irish Rose vein, Luna County **20**:57n
 Lemitar Mountains, Socorro County **20**:61
 Petroglyph mine, Sierra County **20**:59n
 Phelps-Dodge mine, Grant County **20**:58n
 Portales mine, Socorro County (with plattnerite after galena) **20**:43
 Red Cloud mines, Lincoln County: **20**:(61); micro **11**:71, **11**:72p
 Red Lakes prospect (“Turquoise mine”), Eddy County **20**:60
- Socorro Peak, Socorro County: **20**:61n, **20**:62p; micro **22**:384n
 Stephenson-Bennett mine, Dona Ana County: **3**:150, **20**:28–29p, **20**:30d, **20**:391; thick tabular **4**:31–32p, **4**:33–34
 Tres Hermanas Mountains, Luna County **20**:(57)
- Pennsylvania**
 Chester County mine **20**:381p
 Phoenixville **20**:381p, **20**:383
 Wheatley mine **3**:148, **20**:383d
- Utah**
 Gold Hill mine (steep bipyramidal) **24**:18p, **24**:20
- Wales**
 Dyfed
 Bwlch-Glas mine: micro acute bipyramidal **13**:151, **13**:152–153p; pseudo-octahedral micro **21**:492n
- Zaire**
 M’Fouati (fist-sized crystals) **3**:200p
 Musonoi mine **20**:(280), **20**:(284)
- Zambia**
 Broken Hill mine **11**:347

WURTZITE

All polytypes

Bolivia

Animas vein, Potosí Dept. (2.5 cm leaves covering matrix) **21**:98

Locality not specified (blue) **10**:297

Montserrat mines, Oruro Dept. **5**:164n, **6**:132n

Oruro Dept. (numerous localities) (crystals to 1 cm) **6**:132

Canada

Northwest Territories

Nanisivik mine, Baffin Island (platy) **21**:533

Ontario

Silver Islet mine **17**:(59)

Québec

Mt. St-Hilaire: **18**:364n; euhedral, skeletal to 3 mm **21**:347

Czech Republic (formerly Czechoslovakia)

Bohutín district, Příbram ore field (foliated) **12**:158

Italy

Tuscany

Lorano basin quarries (some epitaxial on sphalerite) **18**:270q,c,d

Namibia

Tsumeb (minute crystals; some cadmian) **8**:T35n

United States

Arizona

Mammoth mine, Pinal County (unconfirmed) **11**:177

Connecticut

Thomaston Dam, Litchfield County: some epitaxial on sphalerite **10**:239–240p,c; sphalerite after **4**:85

New Jersey

Sterling mine (micro stalactitic) **25**:99p, **25**:101

Ohio

Nagley strip mine, Nagley **10**:297

Pennsylvania

Donohoe, Westmoreland County (sphalerite epitaxial on) **20**:391

Zambia

Broken Hill mine (intergrown with massive sphalerite) **11**:341

WYARTITE

Zaire

Shinkolobwe mine **20**:288

GENERAL INDEX

WYLLIEITE

In pegmatite environments **4:111**

Brazil

Minas Gerais

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

United States

South Dakota

Nickel Plate pegmatite, Pennington County
4:118

Old Mike mine, Custer County **17:301**

Victory mine, Custer County: **4:111**; newly
described **4:131–136d,h,q**

WYOMING

Bibliography of locality literature **18:227**

Bibliography of mineralogy literature **10:28**

Colorado border, Jackson County **21:485s**

Goshen Hole, Platte County **21:485s**

Green River formation **8:368–379h,g**

Green River, Sweetwater County **21:485s**

Kirwin Mineralized Area, Southern Absaroka
Mountains, Park County **2:4g**

Lovell, Big Horn County **21:485s**

Oldman Ranch, Encampment, Carbon County
21:485s

Shell, Big Horn County **21:485s**

Shirley Basin, Carbon County **21:485s**

State Line diatremes, near Virginia Dale, Larimer
County, CO/Albany County, WY **13:205–**
208h,g,m,p

Westvaco mine, Green River, Sweetwater County
2:87s

Yellowstone National Park **12:29–38m,g**, **18:401s**

GENERAL INDEX

XANTHOCONITE

Canada

- Ontario
 - Keeley mine, near Cobalt Lake (micro) **13:109**

Czech Republic (formerly Czechoslovakia)

- Třebsko deposit (T-1 vein) (orange coatings) **22:211**

Germany

- Niedersachsen
 - St. Andreasberg **17:9**

Mexico

- Chihuahua
 - Batopilas district **17:78**

United States

- Colorado
 - Forest Queen mine, Gunnison County (acicular) **14:247**

XANTHOXENITE

- Numerous world occurrences **4:116, 4:119, 4:121**
- Species status **4:116**

Brazil

- Minas Gerais
 - Sabinópolis **19:335**

United States

- California
 - Champion mine, Mono County **19:331n**
- Maine
 - Dunton mine **16:(382)**
 - Newry area (micro clusters) **6:202**
- South Dakota
 - Tip Top mine **17:(249)**

Wales

- Clwyd
 - Hendre quarry **20:395**

XENOTIME-(Y)

Austria

- Kaiserer and Lohninger quarries, Salzburg **13:(173)**
- Schafkar, Salzburg **13:(173)**
- Two localities **8:288**

Brazil

- Minas Gerais
 - Córrego Bom Sucesso, near Serro (micro prismatic) **23:472n**
 - Ibitiara (to 3 cm) **23:276n**
 - Urubu pegmatite, Araçuaí area **12:77**

Canada

- Ontario
 - Gunter quarry, near McKenzie Lake (twinned to 3 cm) **24:388n**
- Québec
 - Mt. St-Hilaire (prisms to 2 mm) **21:347**

Greenland

- Godthåbsfjord area (metamict) **24:G14n**
- Narssârssuk pegmatite (xenotime-(Y) epitaxial on zircon) **24:G45**

Italy

- Miage Glacier moraine, Monte Bianco (Mont Blanc) region **15:41**

Norway

- Iveland, Aust Agder (sharp to 3 cm) **22:52n**

Switzerland

- Alter Bach, Valais (3 mm prismatic) **6:304p**
- Four localities **8:288, 8:290p**

United States

- California
 - Jensen quarry, Riverside County (some epitaxial on zircon) **15:286d, 15:289n**
 - Lakeview Mountain pegmatite, Riverside County ("xenotime-(Ce)") **20:387**

Colorado

- Pikes Peak batholith **10:377, 16:228n**

Montana

- Snowbird mine, Mineral County (minute crystals) **8:85**

Nevada

- Majuba Hill mine (minute euhedral) **24:175**

Wisconsin

- Rib Mountain, Marathon County (gemmy euhedral to 1 mm, various colors) **12:96–97**

XONOTLITE

Canada

- Québec
 - Jeffrey mine **10:75**

South Africa

- Cape Province
 - Wessels mine: **23:277n**; resembles okenite **22:393n**; 2 cm fibers **22:296**

United States

- Arizona
 - Christmas mine, Gila County (acicular) **11:261n**
- Michigan
 - Isle Royale, Houghton County (micro fibrous; "wollastonite" id as) **23:M68n**

GENERAL INDEX

YAFSOANITE

United States

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

YARROWITE

United States

Arizona
Campbell shaft, Bisbee **24**:435n

YEATMANITE

United States

New Jersey
Franklin **19**:(274)
Sterling Hill mine **13**:(37)

YEDLINITE

United States

Arizona
Mammoth mine, Pinal County: **11**:176; discovery **10**:236h

YFTISITE-(Y)

Sweden

Ytterby (and keivvite after fergusonite-(Y))
18:368n

YOFORTIERITE

Canada

Québec
Mt. St-Hilaire: **10**:108; matted aggregates
21:347

YOSHIMURAITE

Japan

Tanohate mine, Iwate **8**:(517)

YTTRIALITE-(Y)

United States

Texas
Clear Creek pegmatite, Burnet County (veinlets) **8**:90n

YTTROCRASITE-(Y)

United States

California
Southern Pacific Silica quarry, Riverside County **7**:(182)
Texas
Baringer Hill quarry (east of), Burnet County **7**:182–183h,q
Clear Creek pegmatite, Burnet County: **8**:90; crystals to 4 cm **7**:182–183q

YTTROTANTALITE-(Y)

Sweden

Ytterby, Stockholm **2**:137–138h

United States

Colorado
Little Patsy quarry, Jefferson County **21**:429n

YTTROTUNGSTITE-(Y)

Malaysia

Kramat Pulai mine, Perak **12**:86h,q
Tapa, Perak **12**:86h,q

YUGAWARALITE

Four world localities **9**:296n

Iceland

Hvalfjörður **17**:340n, **18**:437–438p
Snaefellsnes **12**:(21)

India

Khandivali quarry, near Bombay (clear blades to 3 cm) **9**:296p,q

Japan

Four localities **9**:296n
Seikoshi mine, Shizuoka-ken **8**:517s

United States

Wyoming
Yellowstone National Park (micro) **12**:34–35

YUGOSLAVIA

See also independent states: Bosnia-Herzegovina, Macedonia, Serbia, Slovenia
Krasna **13**:399s

ZAHERITE

Pakistan

Salt Range (announced; granular) **9**:115h,q

YUKON TERRITORY

Big Fish River, near Northwest Territories border: **21**:486s; special issue **23**:#4h,m,p,g
Blow River area **10**:247s
Crosscut (Crystal) Creek, tributary to Rapid Creek **23**:Y7m
Crystal Creek (see Crosscut Creek)
Grey Cloud claim, near Hart River **12**:183s
Grizzley Bear Creek, tributary to Rapid Creek **23**:Y7m
Gunn claim, near MacMillan Pass, Itsy Mountains **17**:340s
Hess River **8**:390s
Kalzas Lake **17**:340s
Kulan Camp, Rapid Creek **23**:Y7m
Lake Creek, tributary to Rapid Creek **23**:Y7m
Last Chance Creek **18**:84s
Lucky Queen mine, near Kino Hill **22**:386s
Mt. Hundare, near Watson Lake **24**:49s
Rapid Creek **15**:45s, **17**:340s, **22**:53s, **23**:#4h,m,p,g
Rapid Creek/Big Fish River area **8**:517s, **19**:335s, **20**:393s, **23**:#4h,m,p,g
Rock River, Richardson Mountains **17**:339s
Sa Dana Hess mine, Watson Lake **24**:223s
Sonora Gulch, Hayes Creek **24**:385s
Stoneman Camp, Rapid Creek **23**:Y5p, **23**:Y7m
Young's Creek, tributary to Rapid Creek **23**:Y7m

GENERAL INDEX

ZAIRE

- 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**