

Babefphite

Nazarova AS, Kuznetsova NN, Shaskin DP: DAN-SSSR,(1966) 167, 895-897

Russia - Buryatskaya A.R. - Aunik, rare-metal-fluorite deposit, hydrothermal

- Russia: FMM-Moscow - Type: T: 72021

TL in original publ. = Siberia

Babkinite

Bryzgalov IA, Spiridonov EM, Petrova IV, Sakharova MS: Dokl.Akad.Nauk,(1996) 346, n5, 656-659

Russia - Magadan Oblast - Omsukchan village (25km NW of) and Dukat gold-silver deposit (35km SW) - Nevskoye deposit

- Russia: FMM-Moscow - Type: T: r806/1

Bahianite

Moore PB and Araki T: Neues Jahrb.Min.,Abh.(1976) 126, 113-125 (mineral structure)

Brazil - Bahia (south-central part) - Serra das Almas - Agua Quente County - Paramirim das Crioulas (near)

- France: MHN-Paris - Type: T: 175109 (don. J Cassedanne, grains in a vial)
- USA: NMNH-Washington - Type: T: 133875 (don. RV Gaines, 1975) and 135922 (don. Univ. Chicago, thru PB Moore, 1976)

See also PB Moore, C do Prado Barbosa, RV Gaines in: Min.Mag.(1978) 42, 179-182 (mineral description).

Mineral found in placers from four counties: Agua Quente, Rio das Contas, Livramento do Brumado, and Paramirim with the center at Pico das Almas (S13 33'

Baileychlore

Rule AC and Radke F: Amer.Min.(1988) 73, 135-139

Australia - Queensland - Chillagoe (15km WSW of) - Red Dome deposit (S17 11', E144 00')

- USA: NMNH-Washington - Type: CT: 164430
- Australia: SAM-Adelaide - Type: CT: G13593

Baiyuneboite-(Ce)

Fu Pinqiu and Su Xlanze: Acta Mineral. Sinica (1987) 7, 289-297

China - Inner Mongolia - Bayan Obo Fe-Nb-REE-deposit

- China: IN-CAS-Guijiang - Type: HT:

Probably identic with Cordylite-(Ce)

Bakerite

Giles WB: Min.Mag.(1903) 13, 353-355

USA - California - Inyo County - Death Valley, Corkscrew Canyon - Corkscrew mine

- USA: HMM-Cambridge - Type: T: 92735 (part of BM 86511)
- France: MHN-Paris - Type: T: 110.89 (don. WB Giles)
- United Kingdom: NHM-London - Type: T: BM 86511a-c
- USA: NMNH-Washington - Type: T: 094820 (don. NHM, London, 1923)

Bakhchisaraitsevite

Liferovich RP, Pakhomovsky YA, Yakubovich OV, Massa W, Laajoki K, Gehör S, Bogdanova AN, Sorokhtina NV: Neues Jahrb.Min.,Mh.(2000) 402-418

Russia - Kola Peninsula - Kovdor massif - (from the baddeleyte-apatite-magnetite deposit) (N67 35' E30 20')

- Finland: GMUO-Oulu - Type: T: 12138
- Russia: MM-St.Petersburg - Type: T: 3108

Baksanite

Pekov IV, Zav'yalov EN, Fedyushchenko SV, Shcherbachev DK, Borodayev JS, Dorokhova GI: DAN,(1996) 347, n6, 787-791

Russia - Caucasus - Kabardino-Balkaria Rep. - Tyry'auz W-Mo-deposit

- Russia: FMM-Moscow - Type: HT: r1112/1

Name from Baksan River valley

Balangeroite

Compagnoni R, Ferraris G, Fiora Laura: Amer.Min.(1983) 68, 214-219

Italia - Piemonte - Torino - Torino (NNW), Balangero - San Vittore mine

- Italy: MRSN-Torino - Type: HT/CT:

From a serpentinite, a satellite body of the Lanzo massif

Balkanite

Anatassov VA and Kirov GN: Amer.Min.(1973) 58, 11-15

Bulgaria - Vratsa district - Stara Planina (W-part of) - Sedmochislenitsi mine

- Bulgaria: NHMSo-Sofia - Type: T:
- Bulgaria: UKOSo-Sofia - Type: CT: 1351
- Bulgaria: UMGSo-Sofia - Type: CT: 619

Balyakinite

Spiridonov EM: DAN-SSSR,(1980) 253, 1448-1450

Russia - Kamchatka - Aginsk volcanogenic Au-Te-deposit

- Russia: FMM-Moscow - Type: T: 80669

Supergene. Second TL: Eastern Sayan, Pionersk deposit

Bambollaite

Harris DC and Nuffield EW: Can.Min.(1972) 11, 738-742

Mexico - Sonora - Municipio de Moctezuma - Moctezuma - Moctezuma mine (also known as Bambolla mine)

- USA: NMNH-Washington - Type: T: 128391 (don. RV Gaines, 1974)
- Canada: ROM-Toronto - Type: CT: M27177 (few mg)

Bamfordite

Birch WD, Pring A, McBriar EM, Gatehouse BM, McCammon CA: Amer.Min.(1998) 83, 172-177

Australia - Queensland - Cairns (85km WSW of) - Bamford Hill W-Mo-Bi deposit (S17 19', E144 56')

- Australia: MOV-Melbourne - Type: HT: M7424
- Australia: SAM-Adelaide - Type: HT: 20653 (part of HT)

Banalsite

Smith WC, Bannister FA, Hey MH: Min.Mag.(1944) 27, 33-48

Great Britain - Wales - Gwynedd - Rhiw - Bennalt mine

- France: ENSM-Paris - Type: CT: (don. NHM-London, 1965)
- France: MHN-Paris - Type: CT: 146.20 (don. WC Smith)
- United Kingdom: NHM-London - Type: HT: BM 1944,420-423
- USA: NMNH-Washington - Type: T: 105854 (don. NHM-London, 1949)

Bandyite

Palache C and Foshag WF: Amer.Min.(1938) 23, 85-90

Chile - Antofagasta - Calama (8km W of) - Quetena mine (near the surface of the)

- USA: HMM-Cambridge - Type: T: 94625, 97381 (don. MC Bandy)
- USA: NMNH-Washington - Type: T: C05459/60 (don. MC Bandy, thru the Canfield coll., 1936; on the same specimens type Antofagastite, today syn. of eriochalcite)

Bannermanite

Hughes JM and Finger LW: Amer.Min.(1983) 68, 634-641

El Salvador - Izalco Volcano - MR and L Fumaroles

- Canada: GSC-Ottawa - Type: CT:
- USA: NMNH-Washington - Type: T/T: 148832 (don. JM Hughes, 1981), 160385 (don. Miami Univ., through JM Hughes, 1984)

Bannisterite

Smith ML and Frondel C: Min.Mag.(1968) 36, 893-913

USA - New Jersey - Sussex County - Franklin

- USA: HMM-Cambridge - Type: CT: 91862-3, 108571, 128253 (descr. from the HMM-coll.)
- United Kingdom: NHM-London - Type: CT: BM 1967,321
- USA: NMNH-Washington - Type: HT/CT: 145728 (don. Harvard Univ., thru C Francis, 1979) and 145729 (don. Harvard Univ., thru C Francis, 1979)

Baotite

Peng Chijui: Ti-chih K'o-hsueh (1959) 10, 289

China - Inner Mongolia - Paotow (=Baotou)

- France: ENSM-Paris - Type: CT:

First transliteration = Pao-t'ou Kuang. Actual name by VI Simonov in: Kristallografiya (1960) 5, 544-546

Baratovite

Dusmatov VD, Semenov EI, Khomyakov AP, Bykova AV, Dzhafarov NKh: ZVMO,(1975) 104, 580-582

Tajikistan - Alai range - Dara-Pioz massif

- Russia: FMM-Moscow - Type::
- Russia: IMGRE-Moscow - Type::

Plates in quartz-albite-aegirin vein syenit

Barberiite

Garavelli A and Vurro F: Amer.Min.(1994) 79, 381-384

Italia - Sicilia - Messina - Isole Eolie - Isola Vulcano, Fossa crater fumaroles

- Italy: MMUBa-Bari - Type: HT: N. 4/nm

Barbosalite

Lindberg ML and Pecora WT: Science (1954) 119, 739

Brazil - Minas Gerais - Galileia - Sapucaia pegmatite

- United Kingdom: NHM-London - Type: CT: BM 1965,209
- USA: NMNH-Washington - Type: T: 106842A0 (don. U.S.Geol.Surv., thru WT Pecora, 1954; on the same specimen with and filed under tavorite, T)

Barentsite

Khomyakov AP, Kurova TA, Nechelyustov GN, Piloyan GO: ZVMO (1983) 112/4, 474-479

Russia - Kola Peninsula - Khibiny massif (NE) - Restin'yun Mt.

- Russia: FMM-Moscow - Type: HT: 82753
- Russia: MM-St.Petersburg - Type: T: 2046/1

Discovered in a drill core

Bariandite

Cesbron F and Vachey H: Bull.Soc.fr.Min.Crist.(1971) 94, 49-54

Gabon - Dept. Haut-Ogooué - Franceville - Mounana (U- and V-deposit)

- France: ENSM-Paris - Type: CT: (don. "Sorbonne", 1971)
- France: MHN-Paris - Type: CT: 186.21 (don. F Cesbron)
- United Kingdom: NHM-London - Type: HT (part of): BM 1970,151

Baricite

Sturman BD, Mandarino JA: Can.Min.(1976) 14, 403-406

Canada - Yukon Territory - Big Fish River/Blow River area - Rapid Creek (a tributary of), Cross-cut Creek

- France: ENSM-Paris - Type: CT:
- USA: NMNH-Washington - Type: CT: 137303
- Canada: ROM-Toronto - Type: CT: M34169, M35430 (approx. 50g, coll. BD Sturman)

Barioorthojoaquinite

Wise WS: Amer.Min.(1982) 67, 809-816

USA - California - San Benito County - Santa Rita Peak (1 ml S of), San Benito River (head waters of the) - Benitoite Gem mine

- USA: HMM-Cambridge - Type: CT: 119525 (don. WS Wise, 1982)
- USA: NMNH-Washington - Type: CT: 149428 (don. Univ. Calif., Santa Barbara, 1982)
- USA: UCSB-Santa Barbara - Type: CT:

Bariosincosite

Pring A, Kollitsch U, Birch WD, Beyer BD, Elliott P, Ayyappan P, Ramanan A: Min.Mag.(1999) 63, 735-741

Australia - South Australia - Wilmington (~10km S of) - Spring Creek mine (S32 41', E138 07')

- Australia: SAM-Adelaide - Type: HT: G24116

Barquillite

Murciego A, Pascua MI, Babkine J, Dusausoy Y, Medenbach O, Bernhardt H-J: Eur.J.Min.(1999) 11, 111-117

Spain - Salamanca - Salamanca (SW of) - Plasencia (SSE of) - Barquilla deposit

- Spain: ACM-Badajoz - Type: T:
- Spain: DG-Salamanca - Type: T:
- Germany: RUB-Bochum - Type: T:
- France: LCMMMB-Nancy - Type: T:
- Spain: MGM-Madrid - Type: T: MGM-3000

Barrerite

Passaglia E and Pongiluppi D: Lithos (1974) 7, 69-73 and Min.Mag.(1975) 40, 208

Italy - Sardegna - Cagliari - Capo Pula (near) - Nora (cliffs below the S Efisio tower)

- Italy: IMUMo-Modena - Type: T: several g
- USA: NMNH-Washington - Type: T: 128521 (don. E Passaglia, 1974)

Barstowite

Stanley CJ, Jones GC, Hart AD, Keller P, Lloyd D: Min.Mag.(1991) 55, 121-125

Great Britain - England - Cornwall - St Endellion - Bounds Cliff (N50 35'48", W4 47'56")

- United Kingdom: NHM-London - Type: HT: BM 1990,25

Bartelkeite

Keller P, Hess H, Dunn PJ: Chemie der Erde,(1981) 40, 201-206

Namibia - Otavi - Tsumeb

- Germany: IMKU-Stuttgart - Type: CT: NM 07
- USA: NMNH-Washington - Type: CT: 148302

Bartonite

Czamanske GK, Lanphere MA, Erd RC, Blake MC: Earth Planet.Sci. Letters (1978) 40, 107-110

USA - California - Humboldt County - Orick (16 mls SW of) - Coyote Peak diatreme

- USA: NMNH-Washington - Type: HT: 149498 (don. U.S.Geol.Surv., RC Erd, 1982)

Barylite

Blomstrand CW: GFF,(1876) 3, 128

Sweden - Värmland - Filipstad - Filipstad - Langban

- Poland: MMUWr-Wroclaw - Type: T: MMWrII-14612 (one specimen 40x17 mm)

Barysilite

Sjögren A, Lundström CH: Öfvers. KVA handl.(1888) 45, 7-10

Sweden - Värmland - Filipstad - Filipstad - Harstigen

- Sweden: SMNH-Stockholm - Type: HT: g14843

Barytolamprophyllite

Peng Tze-chung, Chang Chien-hung: Scientia Sinica (1965) 14, 1827-1840

Russia - Kola Peninsula - Khibiny massif - Kukisvumchorr Mt. (not Lovozero massif!)

- China: NMG-Beijing - Type: HT:

From a specimen found in a museum

Basaluminite

Bannister FA and Hollingsworth SE: Nature (1948) 162, p. 565

Great Britain - England - Northamptonshire - Ironstone County - Wellingsborough (2 miles S of), Lodge Pit

- USA: HMM-Cambridge - Type: T: 101819 (don. HHM-London, via FA Bannister)
- United Kingdom: NHM-London - Type: HT: BM 1950,56-61

Bassetite

Hallimond AF: Min.Mag.(1915) 17, 221

Great Britain - England - Cornwall - Redruth - Basset mine

- France: ENSM-Paris - Type: CT: ("Sorbonne lable", don. AF Hallimond)

Bastnäsite-(Ce)

Hisinger W: KVA handl.(1838) 187

Sweden - Västmanland - Skinnskatteberg - Riddarhyttan - Bastnäs

- Sweden: SMNH-Stockholm - Type: HT: 23:0476

Original name = Bastnäsitr

Batiferite

Lengauer CL, Tillmanns E, Hentschel G: Min.Petr.(2001) 71, 1-19

Germany - Rheinland-Pfalz - Eifel - Slabik company quarry at Üdersdorf (Daun, 5km SSW of), Stolz quarry at Graulai (Lammersdorf, 1km NNE of, and Altburg (Schalkenmehren, 1.5km W of)

- Austria: IMK-Wien - Type: T:
- Austria: NHMW-Wien - Type: T:

Batisite

Kravchenko SM, Vlasova EV: DAN-SSSR,(1959) 128, 1046-1049 and DAN-SSSR,(1960) 133, 657-660

Russia - Yakutiya - Central Aldan - Inagli massif

- Russia: FMM-Moscow - Type: T: 61316
- Russia: VGM-Moscow - Type: CT: 46244 (Kravchenko 1959)

Baumhauerite

Solly RH: Min.Mag.(1902) 13, 151-160(-171)

Switzerland - Wallis - Binntal - Lengenbach

- France: MHN-Paris - Type: T: 104.100 (don. RH Solly)
- United Kingdom: NHM-London - Type: CT: BM 1926,1654

P Engel and W Nowacki in: Zeitschr.Krist.(1969) 129, 178-202 (structure)

Baumhauerite-2a

Pring A, Birch WD, Sewell D, Graeser S, Edenharter A, Criddle AJ: Amer.Min.(1990) 75, 915-922

Switzerland - Wallis - Binntal - Lengenbach

- Australia: MOV-Melbourne - Type: CT: M3010, M30980
- United Kingdom: NHM-London - Type: HT (part of): BM1926,1654
- Switzerland: NMBA-Basel - Type: CT: L7228, L9501, L15621
- Australia: SAM-Adelaide - Type: CT: G15547 (part of M3010)

Polytype of Baumhauerite (like Baumhauerite-PsiO3abc), but accepted by the CNMMN as a new species.

Baumstarkite

Effenberger H, Paar WH, Topa D, Criddle AJ, Fleck M: Amer.Min.(2002) 87, 753-764

Peru - Huancavelica Department - San Genaro mine

- Austria: MIU-Salzburg - Type: HT: 14524 and 14525
- United Kingdom: NHM-London - Type: HT: BM 2000,32 and 33

Bauranoite

Rogova VP, Belova LN, Kiziyarov GP, Kuznetsova NN: ZVMO,(1973) 102, 75-81

Russia - Chita Oblast - Transbaikalia (S) - Strel'tsovskoye ore field

- Russia: FMM-Moscow - Type: T: 76547, 76548

In the oxidation zone of the U-Mo-deposit. TL in orig. publ. = USSR

Bavenite

Artini E: Atti R.Accad.Lincei.Rend.Cl.Sci.fis.mat.nat. Roma (1901) ser.5, 10, 139-145

Italia - Piemonte - Novara - Lago Maggiore - Baveno (in a miarolitic granite)

- Italy: MCSN-Milano - Type: HT (part of)/T: M30413 (don. E Artini) and M13512 (=TS described in Artini 1901)
- France: MHN-Paris - Type: T: 108.1881/2 (don. to A Lacroix by AE Bazzi)

Bayerite

Gross S and Heller L: Min.Mag.(1963) 33, 723-724

Israel - Hatrurim basin (W of Dead Sea)

- Israel: GSI-Jerusalem - Type: CT: SG 168 and SG 523

Baylissite

Walenta K: Schweiz.Min.Petr.Mitt.(1976) 56, 187-194

Switzerland - Bern - Oberhasli, Grimsel area - Gerstenegg-Sommerloch gallery (2190m from Gerstenegg)

- Germany: IMKU-Stuttgart - Type: T: Number of the type specimen is lacking

Bazhenovite

Chesnokov BV, Polyakov VO, Bushmakina AF: ZVMO,(1987) 116, 737-743

Russia - Ural-S - Chelyabinsk Oblast - Chelyabinsk coal basin - Korkino

- Russia: FMM-Moscow - Type: T: (no No.)
- Russia: MM-St.Petersburg - Type: T: 1956/1
- Russia: MSRI-Miass - Type: T: 5873, 5874, 5875

In the melted products of old, burning coal dumps

Bazirite

Hawkes JR, Merriman RJ, Harding RR, Derbyshire DFP: RK Harrison's Expeditions to Rockall. 1971-1972.

Inst.Geol.Sci. Great Britain (1975) no. 75/1, 11-51

Great Britain - Scotland - Inverness-shire - St. Kilda Isles (294 km W of) - Rockall Island (North Atlantic, Apex Ridge)

- United Kingdom: NHM-London - Type: HT: MI 36445

For a complete description see BR Young, JR Hawkes, RJ Merriman, T Sayles in: Min.Mag.(1978) 42, 35-40.

Bazzite

Artini E: Atti R.Accad.Lincei.Rend.Cl.Sci.fis.mat.nat.,Roma (1915) ser.5, 24, 313-319

Italia - Piemonte - Novara - Lago Maggiore - Baveno (in a miarolitic granite)

- Italy: MCSN-Milano - Type: CT: M13549, 545, 551, 557 (don. ing. Bazzi)
- France: MHN-Paris - Type: T: 115.132 (don. to A Lacroix by AE Bazzi)
- United Kingdom: NHM-London - Type: T: 1925,534

Bearthite

Chopin C, Brunet F, Gebert W, Medenbach O, Tillmanns E: Schweiz.Min.Petr.Mitt.(1993) 73, 1-9

Italia - Piemonte - Cuneo - Po and Varaita valleys (between the) - Dora Maira massif

- France: ENSM-Paris - Type: CT: 84DM54, 85DM45, 85DM70

Switzerland - Wallis - Zermatt - Gornergrat/Stockhorn (western ridge)

- France: ENSM-Paris - Type: HT: PB 100f (part of)
- Switzerland: MPI-Basel - Type: HT: PB 100f

Beaverite

Butler BS and Schaller WT: Amer.J.Sci.(1911) ser. 4, 32, 418-424

USA - Utah - Beaver County - San Francisco District - Horn Silver mine

- France: MHN-Paris - Type: T: 11244 (don. WT Schaller)
- United Kingdom: NHM-London - Type: CT: BM 1912,615
- USA: NMNH-Washington - Type: T: 086986 (don. U.S.Geol.Surv., Butler coll., 1911)

Bechererite

Giester G and Rieck B: Amer.Min.(1996) 81, 244-248

USA - Arizona - Maricopa County - Osborne Ag-Au district - Tonopah-Belmont mine (on the dump)

- Austria: IMK-Wien - Type: CT: 8B/10-030#1
- Austria: NHMW-Wien - Type: CT: M6789

Becquerelite

Schoep A: C.R.Acad.Sci.Paris,(1922) 174, 1240-1242

Zaire - Shaba - Likasi - Shinkolobwe uranium mine

- France: MHN-Paris - Type: CT: 122.135

Bederite

Galliski MA, Cooper MA, Hawthorne FC, Cerny P: Amer.Min.(1999) 84, 1674-1679

Argentina - Salta Province - Nevados de Palermo - Quemado pegmatite field - El Penon pegmatite (S24 50', W66 20')

- Canada: CMN-Ottawa - Type: HT,CT: 81556
- Argentina: CRICYT-Mendoza - Type: HT,CT: 8553

Behierite

Behier J: Rep. Malgache, Rapport Annuel Serv.Géol.(1960) p. 181

Madagascar - Manjaka

- USA: NMNH-Washington - Type: T: 139602 (Trelawney coll., 1978)

Behoite

Ehlmann AJ and Mitchell RS: Amer.Min.(1970) 55, 1-9

USA - Texas - Llano County - Rhode Ranch pegmatite

- France: ENSM-Paris - Type: CT: (don. AJ Ehlmann)

Beidellite

Larsen ES and Wherry ET: J.Wash.Acad.Sci.(1925) 15, 465-468

USA - Colorado - Saguache County - San Juan Mts., Beidell Creek (near the head of) - Beidell (now a vanishing mining camp)

- France: MHN-Paris - Type: T: fragment of the NMNH-type specimen
- USA: NMNH-Washington - Type: T: R04761 (don. ES Larsen thru the Roebbling coll., 1927)
- Canada: ROM-Toronto - Type: CT: M12689 (sev. mg)

Belendorffite

Berhardt H-J, Schmetzer K: Neues Jahrb.Min.,Mh.(1992) 21-28

Germany - Rheinland-Pfalz - Nordpfälzer Bergland, Donnersberg Kreis - Donnersberg Kreis, Obermoschel (SE of) - Moschellandsberg

- Germany: RUB-Bochum - Type: CT: (two polished section and a sample of 5x5x5 mm)

Belkovite

Voloshin AV: DAN-SSSR,(1990) 315, 1218-1220

Russia - Karelia A.R. - Vuoriyarvi massif

- Russia: FMM-Moscow - Type: T: r584
- Russia: GIKB-Apatity - Type: T: (no No.)
- Russia: MM-St.Petersburg - Type: T: 2036/1

In three core samples from various boreholes which crosscuts veined dolomite. Voloshin AV, Subbotin VV, Pakhomovskii YaA, Bakhchisaraitsev AYU, Yamnova NA, Pushcharovskii DYU in: Neues Jb. Min,Mh.(1991) 23-31

Bellbergite

Rüdinger B, Tillmanns E, Hentschel G: Min.Petr.(1993) 48, 147-152

Germany - Rheinland-Pfalz - Eifel - Laacher lake volcano area, Mayen (2km N of) - Bellerberg

- Austria: IMK-Wien - Type: HT:

In Ca-rich xenoliths of the quaternary volcano.

Bellingerite

Berman H and Wolfe CW: Amer.Min.(1940) 25, 505-512

Chile - Antofagasta - Chuquicamata

- USA: HMM-Cambridge - Type:: 95026 (don. Chile Expl. Comp.)

Belloite

Schlüter J, Klaska K-H, Gebhard G: Neues Jahrb.,Mh.(2000) 67-73

Chile - Antofagasta - Sierra Gorda village (3km SW of) - Rio Tinto mine (probably belongs to the)

- Germany: MMUH-Hamburg - Type: T:

Belovite-(Ce)

Borodin LS, Kazakova ME: DAN-SSSR (1954) 96/3, 613-616

Russia - Kola Peninsula - Lovozero massif - Malyi Punkaruaiv Mt.

- Russia: FMM-Moscow - Type: T: 56440

In a pegmatite of nepheline syenite. Original = Belovite

Belovite-(La)

Pekov IV, Kulikova IM, Kabalov YuK, Yeletskaya OV, Chukanov NV, Men'shikov YuP, Khomyakov AP: ZVMO (1996) 125/3, 101-109

Russia - Kola Peninsula - Khibiny alkaline massif - Mt. Kukisvumchorr and Mt. Eveslogchorr - Kirovskii apatite mine

- Russia: FMM-Moscow - Type: T: p1523
- Russia: MM-St.Petersburg - Type: T: 3026/24

Bementite

König GA: Proc.Acad.Nat.Sci.Philad.(1887) p. 310

USA - New Jersey - Sussex County - Franklin

- France: MHN-Paris - Type: CT: 115.290 (don. CS Bement)

Benuite

Walenta K, Birch WD, Dunn PJ: Chemie der Erde,(1996) 56, 171-176

Germany - Baden-Württemberg - Schwarzwald - Kinzigtal, Oberwolfach - Clara mine

- Germany: IMKU-Stuttgart - Type: CT:
- Australia: MOV-Melbourne - Type: CT:

Benavidesite

Oudin E, Picot P, Pillard F, Moëlo Y, Burke EAJ, Zakrzewski MA: Bull.Min.(1982) 105, 166-169

Peru - Lima Dep. - Cajatambo Prov. - Oyon district - Uchuc-Chacua mine (S10 37'15", W76 48'00")

- France: ENSM-Paris - Type: CT:
- Netherlands: IESFU-Amsterdam - Type: CT:

Second TL = Sweden, Södermanland, Doverstope (near), Sättra mine

Benjaminite

Shannon EV: Proceedings U.S.Nat. Museum (1925) article 24, 1-9

USA - Nevada - Nye County - Manhattan district, Round Mountain (near) - Outlaw mine

- USA: NMNH-Washington - Type: T: 095058 (don. U.S.Geol.Surv., HG Clinton, 1925)

Benleonardite

Stanley CJ, Criddle AJ, Chisholm JE: Min.Mag.(1986) 50, 681-686

Mexico - Sonora - Municipio de Moctezuma - Moctezuma - Bambolla mine

- United Kingdom: NHM-London - Type: HT: BM 1985,354
- USA: NMNH-Washington - Type: T: 165226 (don. CJ Stanley, 1987)

Benstonite

Lippmann F: Naturwissenschaften (1961) 48, 550-551

USA - Arkansas - Hot Spring County - National Lead Co. Baroid Division Pit

- Germany: MSU-Göttingen - Type: HT: S.21.3.5.1
- USA: NMNH-Washington - Type: T: 120234 (don. F Lippmann from OJ Benston, 1967) and 120236 (don. F Lippmann, collected 31. Dec. 1954)

Bentorite

Gross S: Israel J. Earth Sci.(1980) 29, 81-84

Israel - Hatrurim basin (W of Dead Sea)

- Israel: DGHU-Jerusalem - Type: CT: HU 63307
- Israel: GSI-Jerusalem - Type: CT: SG 644, SG 645, SG 647, SG 652

Benyacarite

Demartin F, Pilati T, Gramaccioli CM: Zeitschr.Krist.(1993) 208, 57-71

Argentina - Cordoba - Tanti (near) - Cerro Blanco (pegmatite)

- Italy: MMUM-Milano - Type: HT:

Compare Demartin F, Gay HD, Gramaccioli CM, Pilati T in: Can.Min.(1997) 35, 707-712

Berberite

Nefedov EI: DAN-SSSR,(1967) 174, 189-192

Russia - Karelia A.R. - Ladoga lake - Pitkyaranta (near)

- Russia: FMM-Moscow - Type: T: 69274
- Russia: UDG-St.Petersburg - Type: T: 15180
- Russia: MM-St.Petersburg - Type: T: 1003/1-5

In a skarn deposit

Berdesinskiite

Bernhardt HJ, Schmetzer K, Medenbach O: Zeits.deutsch.Gem.Ges.(1981) 30, 143-145

Kenya - Kwale distr. (coast) - Voi (S of) - Lambasa Hill (6km SE of)

- Germany: RUB-Bochum - Type: CT: (conc.of rutile-grains with berdesinskiite)
- Germany: MPI-Heidelberg - Type: CT: 10 11 20 (in kornerupine-bearing rocks)
- USA: NMNH-Washington - Type: T: 147362 (don. O Medenbach, 1980)

Berezanskiite

Pautov LA, Agakhanov AA: ZVMO,(1997) 126, n4, 75-80

Tajikistan - Alai range - Dara-Pioz massif - Dara-i-Pioz glacier (in a pegmatitic block on moraine of)

- Russia: MM-St.Petersburg - Type: T:
- Russia: MSRI-Miass - Type: T:

Bergslagite

Hansen S, Fälth L, Petersen OV, Johnsen O: Neues Jahrb.,Mh.(1984) 257-262

Sweden - Värmland - Filipstad - Filipstad - Langban

- Sweden: BS-Filipstad - Type: CT:
- Denmark: GMK-Copenhagen - Type: CT: 1984, 426,427,432 (var. prep.)
- USA: NMNH-Washington - Type: CT: 162582

Berlinite

Blomstrand CW: Öfvers. KVA handl.(1868) 25, 197-201

Sweden - Kristianstad - Bromölla - Näsrum (N of) - Västana

- USA: HMM-Cambridge - Type: T: 101252 (A.F. Holden coll. from Blomstrand via W.F. Ferrier)
- Poland: MMUWr-Wroclaw - Type: T: MMWr II-9574 (one specimen 41x24 mm)

Bermanite

Hurlbur CS: Amer.Min.(1936) 21, 656-661

USA - Arizona - Yavapai County - Hillside (40 km W of) - Bagdad Copper mine (near), 7 U 7 Ranch

- USA: HMM-Cambridge - Type: CT: 97863/5, 119698 (field collected by CS Hurlbut)
- USA: NMNH-Washington - Type: T: 120405 (don. CS Hurlbut, Harvard Univ., 1967; the specimen contains also the type paulkerrite)

Bernalite

Birch WD, Pring A, Reller A, Schmale HW: Naturwiss.(1992) 79, 509-511

Australia - New South Wales - Broken Hill - Proprietary mine (upper levels) (S31 58', E141 28')

- Australia: MOV-Melbourne - Type: CT: M40597
- Australia: SAM-Adelaide - Type: CT:

Compare the same authors in: Amer.Min.(1993) 78, 827-834

Bernardite

Pasava J, Pertlik, Stumpfl EF, Zemann J: *Min.Mag.*(1989) 53, 531-538

Macedonia - Rozden (near) - Allchar deposit

- Austria: IMK-Wien - Type: T:
- Austria: NHMW-Wien - Type: HT: M3647
- Czech Republic: NMCR-Praha - Type: T:

Berndtite-2H

Moh GH and Berndt F: *Neues Jahrb.Min.,Mh.*(1964) 94-95

Bolivia - Oruro Dep. - Huari - Serro de Potosi - Maria Teresa mine

- USA: NMNH-Washington - Type: T: 114486 (F Ahlfeld coll., thru Ward's Natural Science) and C05354 (don. F Ahlfeld, thru Canfield coll., 1935); both specimens with and filed under Ottemannite (types)

Moh GH in: Fortschr.Min.(1966) 42, 211 - has been named the new species.

Berryite

Nuffield EW and Harris DC: *Can.Min.*(1965) 8, 400 (abstract)

USA - Colorado - Park County - Hall Valley - Missouri mine

- USA: NMNH-Washington - Type: T: 092902 (U.S.Geol.Surv., 1915; on same specimen with and filed under Cuprobismutite)

Compare the same authors in: Can.Min.(1966) 8, 407-413 and *S Karup-Moller in: Can.Min.*(1966) 8, 414-423

Berthierine-1M

Beudant FS: *Traité élément. Mineral.*(1832) 2nd ed., 2, 128

France - Lorraine - Meurthe-et-Moselle dép. - Thionville, SW of - Hayanges

- France: MHN-Paris - Type: T: 28134 (coll. Berthier)

Berthierite

Haidinger W: *Edinburgh. Journ of Science*,(1827) 7, 353

France - Auvergne - Puy-de-Dôme dép. - Chazelles

- Austria: NHMW-Wien - Type: T?:

Bertossaite

Knorring O von and Mrose ME: *Can.Min.*(1966) 8, 668

Rwanda - Gisenyi prov. - Gatumba - Buranga (Li-pegmatite)

- USA: NMNH-Washington - Type: T: 141000 (Trelawney coll., 1978)

Bertrandite

Damour AA: *Bull.Soc.fr.Min.*(1883) 6, 248

France - Pays de la Loire - Loire-Atlantique dép. - Nantes, near - Petit Port

- France: ENSM-Paris - Type: CT:
- France: MHN-Paris - Type: T: 8374 (coll. Bertrand)

Beryllite

Kuz'menko MV: *DAN-SSSR* (1954) 99, 451-454

Russia - Kola Peninsula - Lovozero massif - Karnasurt Mt. (pegmatite no. 61)

- Russia: FMM-Moscow - Type: T: 57251

Berzeliite

Kühn OB: *Ann.Ch.Pharm.*(1840) 34, 211

Sweden - Värmland - Filipstad - Filipstad - Langban

- Sweden: SMNH-Stockholm - Type: HT: 531593

Betafite

Lacroix A: C.R.Acad.Sci. Paris (1912) 154, 1042

Madagascar - (Central) - Betafo (near) - Amlolotaro

- France: MHN-Paris - Type: CT: 111.131 (coll. A Lacroix)

In pegmatite

Beusite

Hurlbut CS, Aristarain LF: Amer.Min.(1968) 53, 1799-1814

Argentina - San Luis - Pringles - Los Aleros

- Canada: GSC-Ottawa - Type: CT (part of):
- USA: HMM-Cambridge - Type: CT: 109052 (Los Aleros), 134312 (Amanda), 134313 (San Salvador); (all field collected by CS Hurlbut)

Find also in other mines of San Luis: Junin, San Salvador, and Junin, Amanda

Beusite

Hurlbut CS, Aristarain LF: Amer.Min.(1968) 53, 1799-1814

Argentina - San Luis - Pringles - Los Aleros

- USA: NMNH-Washington - Type: CT: 137294 (part of the Harvard-type from Los Aleros)

Find also in other mines of San Luis: Junin, San Salvador, and Junin, Amanda

Beyerite

Frondel CI: Amer.Min.(1943) 28, 532-533

Germany - Sachsen - Erzgebirge - Schneeberg (= first TL)

- USA: NMNH-Washington - Type: T: C02251 and R02756

USA - California - San Diego County - Pala - Stewart mine (= second TL)

- USA: HMM-Cambridge - Type: CT: 97044 (described from Harvard coll.)
- USA: NMNH-Washington - Type: T: 094017 (don. WF Foshag, 1920)

First TL in Sachsen, Germany, Schneeberg

Bezsmertnovite

Spiridonov EM, Chvileva TN: DAN-SSSR,(1979) 249, 185-189

Russia - Kamchatka - Aginsk volcanogenic Au-Te-deposit

- Russia: FMM-Moscow - Type: T: 79408

Hydrothermal, in zones of cementations

Bianchite

Andreatta C: Atti R.Accad.Lincei.Rend.Cl.Sci.fis.mat.nat.,Roma (1930) ser.6, 11, 760

Italia - Friuli-Venezia Giulia - Udine - Tarvisio (S of) - Cave di Predil; Raibl mine (from the so called "Vitriolwand")

- Italy: MMUPa-Padova - Type: T: 1039/1774 (500 g)
- United Kingdom: NHM-London - Type: HT (part of): 1933,90
- USA: NMNH-Washington - Type: T: R06735 (Roebbling coll., 1933; don. R Palumbo)

Bicchulite

Henmi C, Kusachi I, Henmi K, Sabine PA, Young BR: Min.Journ.Japan (1973) 7, 243-251

Japan - Honshu - Okayama Pref. - Bicchu township (Bitchu) - Fuka mine

- Japan: UOk-Okayama - Type: T: ONM-01 (20 samples)

Second TL = GBR, Northern Ireland, Antrim County, Carneal

Bideauxite

Williams SA: *Min.Mag.*(1970) 37, 637-640

USA - Arizona - Pinal County - Tiger - Mammoth-St.Anthony mine

- France: MHN-Paris - Type: CT: 180.113 (don. SA Williams)
- USA: NMNH-Washington - Type: T: 114583 (JW Scott coll., thru ML Ehrmann, 1960)

Biehlite

Schlüter J, Klaska K-H, Adiwidjaja G, Friese K, Gebhard G: *Neues Jahrb.,Mh.*(2000) 234-240

Namibia - Otavi - Tsumeb

- Germany: MMUH-Hamburg - Type: T:

Bigcreekite

Basciano LC, Groat LA, Roberts AC, Gault RA, Dunning GE, Walstrom RE: *Can.Min.*(2001) 39, 761-768

USA - California - Fresno County - Big Creek (W side of) - Esquire #7 claim (N36 55', W119 14'42")

- Canada: UBC-Vancouver - Type: CT:

Also found on Trumbull Peak (NW slope of), Mariposa County, California, USA

Bijvoetite-(Y)

Deliens M, Piret P: *Can.Min.*(1982) 20, 231-238

Zaire - Shaba - Likasi - Shinkolobwe uranium mine

- Belgium: MRAC-KMMA-Tervuren - Type: HT: RGM 13.781 (a few mm crystals)

Bikitaite

Hurlbut CS: *Amer.Min.*(1957) 42, 792-797

Zimbabwe - Fort Victoria (40 mls E of) - Bikita - Nolan property

- USA: HMM-Cambridge - Type: HT: 106822 (don. CS Hurlbut from GH Nolan, 1956)

Bilibinskite

Spiridonov EM, Bezmertnaya MS, Chvileva TN, Bezmertny VV: *ZVMO*,(1978), 107, 310-315

Russia - Kamchatka - Aginsk volcanogenic Au-Te-deposit

- Russia: FMM-Moscow - Type: T: 78385
- Russia: MM-St.Petersburg - Type: T: 1011/1-2

Hydrothermal

Billingsleyite

Frondel C and Kastner M: *Amer.Min.*(1968) 53, 1791-1798

USA - Utah - Utah County - East Tintic district - North Lily mine

- France: ENSM-Paris - Type: CT: (don. C Frondel, 1968; nr. 19937)
- USA: HMM-Cambridge - Type: HT: 110530 (don. A Hoffman, 1940)
- United Kingdom: NHM-London - Type: CT: BM 1985,17
- USA: NMNH-Washington - Type: T: R18987 (don. Cureton Min.Comp., thru Roebing coll., 1984)

Biphoshammite

Pryce MW: *Min.Mag.*(1972) 38, 965-967

Australia - Western Australia (SE) - Nullarbor Plain - Eucla (SE of) - Murra-el-elevyn cave (S31 20', E126 00')

- Australia: WAM-Perth - Type: NT: MDC 3977

New definition of biphoshammite first described by CU Shepard in: *Rural Carolinian* (1870) 1, 467. Compare archerite.

Biringuccite

Cipriani C, Vannuccini P: Atti Accad.Lincei.Rend.Cl.Sci.fis.mat.nat., Roma (1961) ser.8, 30, 74-83 and 235-245; 31, 141-142

Italia - Toscana - Pisa - Val di Cecina - Larderello

- Italy: MMUFI-Firenze - Type: HT: 16802/G (few g)
- USA: NMNH-Washington - Type: T: 163785 (don. C Cipriani, 1986; on same specimen with Nasinite type)

Scales of pipes of the great geothermal plants (1930)

Bismite

Frondel CI: Amer.Min.(1943) 28, 521-535

Bolivia - Potosi Dep. - Colavi (near)

- USA: HMM-Cambridge - Type: NT: 97831 (described from HMM-coll.)

Found as incrustations on waterworn cobble of native bismuth, probably the first, low-temperature form of the monoclinic $\text{O-Bi}_2\text{S}_3$ in nature. Only the bismite from Rincon, San Diego, California, described by Rogers AF in School of Mines, Quatern.(1910) 31,

Bismoclite

Mountain ED: Min.Mag.(1935) 24, 59-62

South Africa - Northern Cape Province - Namaqualand - Steinkopf District - Jakkalswater (21km NW of)

- South Africa: DGRU-Grahamstown - Type: HT: EDM58 (60g)

Bismutocolumbite

Peretazhko IS, Zagorskij VE, Sapozhnikov AN, Bobrov YuD, Rakcheev AD: ZVMO,(1992) 121, n3, 130-134

Russia - Cita Oblast - Transbaikalia-Malkhansky Range - Danburitovaya vein

- Russia: FMM-Moscow - Type: T: r767//1
- Russia: GIKB-Apatity - Type: T: 3604, 3619
- Russia: MM-St.Petersburg - Type: T: 2075/1

Bismutohauchecornite

Kovalenker VA, Evstigneeva TL, Begizov VD, Vyal'sov LN, Smirnov AV, Krakovetskii YuK, Balbin VS: Trudy Min. Muzeya AN SSSR,(1977) 26, 201-205

Russia - Krasnoyar Territory - Noril'sk district - Talnakh - Oktyabr'skoye deposit

- Russia: FMM-Moscow - Type: T: 77168

Redefinition by J. Just in Min.Mag.(1980) 43, 873-876

Bismutopyrochlore

Chukanov NV, Skrigitil AM, Kuzmina OV, Zadov AE: ZVMO (1999) 128/4, 36-41

Tajikistan - E Pamir - Mika pegmatite vein

- Russia: FMM-Moscow - Type: T:

Bismutostibiconite

Walenta K: Chemie der Erde,(1983) 42, 77-81

Germany - Baden-Württemberg - Schwarzwald - Kinzigtal, Oberwolfach - Clara mine

- Germany: IMKU-Stuttgart - Type: HT/CT: CL1,250

Bismutotantalite

Wayland EJ and Spencer LJ: Min.Mag.(1929) 22, 185-192

Uganda - Buganda - Busiro Co. - Kampala (25 mls WNW of) - Gamba Hill

- United Kingdom: NHM-London - Type: [CT: BM 1929,169
- USA: NMNH-Washington - Type: CT: 096044 (don. NMH-London, 1929; part of BM 1929,160)

Bityite-2M1

Lacroix A: C.R.Acad.Sci.Paris (1908) 146, 1371

Madagascar - Maharitra - Mt. Bity (or Ibity)

- USA: HMM-Cambridge - Type: T: 87680 (AF Holden coll., from A Lacroix, via WT Schaller)
- France: MHN-Paris - Type: HT: 108.425 and 108.427 (types of A Lacroix)

With tourmaline in pegmatite

Blatonite

Vochten E, Deliens M: Can.Min.(1998) 36, 1077-1081

USA - Utah - San Juan County - Brown's Rim - Jomac mine

- Belgium: IRSNB-Brussels - Type: HT: RC 4788

Blatterite

Raade G, Mladeck HH, Din VK, Criddle AJ, Stanley CJ: Neues Jahrb.,Mh.(1988) 121-136

Sweden - Värmland - Filipstad - Filipstad - Nordmark

- Norway: MGMU-Oslo - Type: HT: E1168
- United Kingdom: NHM-London - Type: HT(part of): BM 1986,112

Bleasdaleite

Birch WD, Pring A, Kolitsch U: Austral.J.Min.(1999) 5, n. 2, 69-75

Australia - Victoria - Lake Boga (10km SSW) (pegmatite with supergene chalcocite) - (S35 28' E143 38')

- Australia: MOV-Melbourne - Type: T: M44699
- Australia: SAM-Adelaide - Type: CT:

An outcrop of Devonian granite.

Blixite

Gabrielson O, Parwel A, Wickman FE: Arkiv Min.Geol.(1958) 2, 411-415

Sweden - Värmland - Filipstad - Filipstad - Langban

- USA: NMNH-Washington - Type: T: 114720
- Sweden: SMNH-Stockholm - Type: HT: 25180

Blossite

Robinson PD, Hughes JM, Malinconico ML: Amer.Min.(1987) 72, 397-400

El Salvador - Izalco Volcano - Fumaroles

- USA: NMNH-Washington - Type: T: 164270 (don. PD Robinson, 1987)

Bobfergusonite

Ercit TS, Anderson AJ, Cerny P, Hawthorne FC: Can.Min.(1986) 24, 599-604

Canada - Manitoba - Cross Lake - Pegmatite #22

- Canada: MMUM-Winnipeg - Type: HT: (grams) ?
- Canada: ROM-Toronto - Type: HT (part of): M42687 (a few mg)

Bobkingite

Hawthorne FC, Cooper MA, Grice JD, Roberts AC, Hubbard N: Min.Mag.(2002) 66, 301-311

Great Britain - England - Leicestershire - Stanton-under-Bardon - New Cliffe Hill quarry

- Canada: CMN-Ottawa - Type: HT: CMNNG 83270
- Canada: GSC-Ottawa - Type: HT: (X-ray powder mount)

Bogdanovite

Spiridonov EM, Chvileva TN: Vestnik Moskva Univ., Ser.Geol.(1979) 1, 44-52

Russia - Kamchatka - Aginsk volcanogenic Au-Te-deposit

- Russia: FMM-Moscow - Type: T: 79408
- Russia: MM-St.Petersburg - Type: T: 1115/1

Hydrothermal

Boggildite

Nielsen AH and Pauly H, Moller KC: Acta Chem.Scand.(1954) 8, 136 and Meddr Gronland,(1956) 137, 6, p.1

Greenland - South Greenland - Ivigtut (Ivittuut) - Ivigtut Cryolite deposit / mine

- Denmark: GMK-Copenhagen - Type: CT (chem.): 1957.155a (1 vial with powder)

Erronously called Boggildite in Fleischer and Mandarino

Boggsite

Howard DG, Tschernich RW, Smith JV, Klein GL: Amer.Min.(1990) 75, 501-507 and 1200-1204

USA - Oregon - Columbia County - Goble area - (N46 01'13.1", W122 52'39.6")

- USA: AMNH-New York - Type: T: ??
- Canada: ROM-Toronto - Type: T: ??

Occurs on the top of a small projection of basalt located above a vertical cliff along Goble Creek, on the south of the Neer Road, approximately 50m west of the junction with Highway 30, 200m north of Goble.

Bogvadite

Pauly H, Petersen OV: Bull.geol.Soc.Denmark,(1988) 37, 21-30

Greenland - South Greenland - Ivigtut (Ivittuut) - Ivigtut Cryolite deposit / mine

- Denmark: GMK-Copenhagen - Type: HT: 1989.172, 1989.173 (1 sample, 2 vials with crystals and several mounted crystals)

Bohdanowiczite

Banas M and Ottemann J: Przegl.Geol. Polska (1967) 5, 240 (only name)

Poland - SW-Poland - Sudety Mts. - Kletno

- Poland: AMM-Krakow - Type: HT: (micro amounts)

Compare M Banas and J Ottemann in: Przegl.Geol. Polska (1969) 17, 235-237

Böhmite

De Lapparent J: C.R.Acad.Sci.Paris,(1927) 184, 1662

*France - Midi-Pyrénées - Ariège dép. - Perille and Cadarcet **

- France: MHN-Paris - Type: T: 128101 (coll. De Lapparent)

** and Provence-Alpes-Côte d'Azur, Var dép., Recoux*

Bokite

Ankinovich EA: ZVMO,(1963) 92, 51-59

Kazakhstan - Dzhambulsk. Obl. - Karatau - Balasauskandyk V-deposit

- Russia: VGM-Moscow - Type: T: 49847 (Ankinovich 1971)

Boleite

Mallard E and Cumengé E: Bull.Soc.fr.Min.Crist.(1891) 14, 283

Mexico - Baja California Sur - Municipio de Mulege - Santa Rosalia (near) - Boleo mining district, around Canada de Curuglu

- France: ENSM-Paris - Type: CT:
- France: MHN-Paris - Type: CT/T: 91.269 and 93.244/5

Boltwoodite

Frondel C and Ito J: Science (1956) 124, 931

USA - Utah - Emery County - San Rafael Swell, Delta - Pick's Delta mine

- USA: NMNH-Washington - Type: T: 112710 (don. Harvard Univ., C Frondel, 1957)

Bonaccordite

De Waal SA, Viljoen EA, Calk LC: Trans.Geol.Soc.S.Afr.(1974) 77, 373

South Africa - Eastern Transvaal - Barberton District - Bon Accord Ni-deposit

- South Africa: CMT-Randburg - Type: HT:
- USA: NMNH-Washington - Type: T: 123463A0
- Canada: ROM-Toronto - Type: CT: M33443 (<1g)

Bonattite

Garavelli CL: Atti Accad.Lincei,Rend.Cl.Sci.fis.mat.nat.,Roma (1957) ser.8, 22, 318-327

Italia - Toscana - Livorno - Isola d'Elba - Capo Calamita, (Cantiere Macei)

- Italy: MMUFI-Firenze - Type: HT: 1973/I

Bonshtedtite

Khomyakov AP, Aleksandrov VV, Krasnova NI, Ermilov VV, Smol'yaniova NN: ZVMO (1982) 111/4, 486-490

Russia - Kola Peninsula - Khibiny massif - Vuonnemiok River Valley

- Russia: FMM-Moscow - Type: T: 81589, 81634
- Russia: GIKB-Apatity - Type: T: 5713/5, 5723/1
- Russia: MM-St.Petersburg - Type: T: 1198/1

Found in several drill cores from the Khibiny and the Kovdor massifs

Boracite

Werner AG: CAS Hoffmann, Bergmänn.Journ.(1789) p. 378

Germany - Niedersachsen - Lüneburg - Kalkberg and Schildstein

- Germany: BAF-Freiberg - Type: CT (?): 19324

Boralsilite

Grew ES, McGee JJ, Yates MG, Peacor DR, Rouse RC, Huijsmans JPP, Shearer CK, Wiedenbeck M, Thost DE, Su S-C: Amer.Min.(1998) 83, 638-651

Antarctica (East) - Stornes Peninsula - Larsemann Hills - Prydz Bay (S69 24', E76 07')

- USA: NMNH-Washington - Type: HT: 171403

Norway - Rogaland - Almgjotheii pegmatite (N58 33', E6 31')

- USA: NMNH-Washington - Type: HT: 171404

Borcarite

Pertsev NN, Ostrovskaya IV, Nikitina IB: ZVMO,(1965) 94, 180-196

Russia - Yakutiya-N - Tas-Khayaktakh Range - Snezhnoy deposit

- Russia: FMM-Moscow - Type: T: 68747, 68748
- Russia: VGM-Moscow - Type: CT: 48151

In kotoite marbles, skarn

Borgniezite

de Bethune P, Meyer J: C.R.Acad.Sci.Paris,(1956) 243, 1132-1134

Zaire - Kivu - Rutshuru - carbonatite of Lueshe

- Belgium: UCL-Louvain-la-Neuve - Type: HT:

Discredited name, Syn. of sodic amphibole

Bornemanite

Men'shikov YuP, Bussen IV, Goiko EA, Zabavnikova NI, Mer'kov AN, Khomyakov AP: ZVMO (1975) 104/3, 322-326

Russia - Kola Peninsula - Lovozero massif - Karnasurt Mt. - Jubileinaya pegmatite

- France: ENSM-Paris - Type: CT: (don. IMGRE, thru AP Khomyakov, 1979)
- Russia: FMM-Moscow - Type: T: 75318
- Russia: GIKB-Apatity - Type: T: 3274, 3308
- Russia: MM-St.Petersburg - Type: T: 1057/3
- United Kingdom: NHM-London - Type: HT: BM 1994,004 (part of the)
- USA: NMNH-Washington - Type: CT: 143813 (don. IMGRE, thru VI Stepanov, 1978)

Borodaevite

Nenashchewa SN, Efimov AV, Sivtsov AV, Mozgova NN: ZVMO,(1992) 121, n4, 113-120

Russia - Yakutiya - Indigirka river basin - Alyaskitovoje deposit (N65 30'~, E143 ~)

- Russia: FMM-Moscow - Type: T: 87992

Boromuscovite

Foord EE, Martin RF, Fitzpatrick JJ, Taggart JE, Crock JG: Amer.Min.(1991) 76, 1998-2002

USA - California - San Diego County - Ramona district - Little Tree pegmatite mine

- USA: NMNH-Washington - Type: T: 166821

Bostwickite

Dunn PJ and Leavens PB: Min.Mag.(1983) 47, 387-389

USA - New Jersey - Sussex County - Franklin - Taylor mine

- USA: HMM-Cambridge - Type: HT: 125619 (descr. from the HMM-coll.)
- USA: NMNH-Washington - Type: CT: C04222 (Canfield coll.; with and filed under type kittatinnyite)

Botallackite

Church AH: J.Chem.Soc. London (1865) ser. 2, vol. 3, 212-214

Great Britain - England - Cornwall - St Just - Botallack mine

- United Kingdom: NHM-London - Type: HT: BM 36528 (reexamined by CI Frondel)

Botryogen

Haidinger W: Ann.Phys.Chem.(Pogg.),(1828) 12, 491

Sweden - Kopparberg - Falun - Falun - Falun

- United Kingdom: NHM-London - Type: HT(part of): BM 1956,315
- Austria: NHMW-Wien - Type: T(?): A.a.185 (1 sample)

Bottinoite

Bonazzi P, Menchetti S, Caneschi A, Magnanelli S: Amer.Min.(1992) 77, 1301-1304

Italia - Toscana - Lucca - Alpi Apuane, Pietrasanta (NE of) - Bottino mine (Paolis level, near Sansonis well)

- Italy: MMUFI-Firenze - Type: HT: 1747/I

Boussingaultite

Bechi E: C.R.Acad.Sci.Paris (1864) 58, 583

Italia - Toscana - Grosseto - Val di Cecina - Travale

- France: ENSM-Paris - Type: CT: 17853 (don. Palumbo)
- France: MHN-Paris - Type: CT: 99.494 (don. to Descloizeaux by E Bechi)

Bowieite

Desborough GA and Criddle AJ: Can.Min.(1984) 22, 543-552

USA - Alaska - Hagemester Island Quad. - Goodnews Bay - Salmon River

- United Kingdom: NHM-London - Type: HT (part of): BM 1983,70
- USA: NMNH-Washington - Type: T: (not in NMNH-catal.)

Boyleite

Walenta K: Chemie der Erde,(1978) 37, 73-79

Germany - Baden-Württemberg - Schwarzwald (S) - Münstertal - Kropbach quarry

- USA: NMNH-Washington - Type: T:

Unstable, decomposes to gunningite

Brabantite

Rose D: Neues Jahrb.Min.,Mh.(1989) 247-257

Namibia - Karibib district - Etiro (W of), Brabant 86 farm - Van der Made pegmatite

- Germany: IMK-TU-Berlin - Type: HT: 81/40 (1 sp. with several intergrown aggr. up to 1.5cm)
- USA: NMNH-Washington - Type: T: 149681

Bracewellite

Milton C, Appleman DE, Chao ECT, Cuttita F, Dinnin JL, Dwornik EJ, Mall M, Ingram BL, Rose HJ:

Geol.Soc.Amer.,Progr. Ann. Meeting (1967) p. 151

Guyana - Mazaruni district - Robello ridge - Merume river (gravels of the)

- United Kingdom: NHM-London - Type: CT: BM 1979,136

Bradaczekite

Filatov SK, Vergasova LP, Gorskaya MG, Krivovichev SV, Burns PC, Ananiev VV: Can.Min.(2001) 39, 1115-1119

Russia - Kamchatka - Tolbachik volcano main fracture eruption 1975-1976 (fumaroles)

- Russia: MM-St.Petersburg - Type: T:

Bradleyite

Fahey JJ and Tunell G: Amer.Min.(1941) 26, 646-650

USA - Wyoming - Sweetwater County - John Hay Jr. Well no. 1 (depth 1342'10")

- USA: NMNH-Washington - Type: T: 117718 (U.S.Geol.Surv., 1965)

Braggite

Bannister FA, Hey MH: Min.Mag.(1932) 23, 198-206

South Africa - Northwestern Transvaal - Potgietersrus District - Rustenburg deposit

- United Kingdom: NHM-London - Type: HT: BM 1932,1203, 1304
- USA: NMNH-Washington - Type: T: 105857

found as rounded grains and crystals in platiniferous concentrates from the Bushfield Complex

Braitschite-(Ce)

Raup OB, Gude III AJ, Groves HL Jr: USGS Prof. Paper (1967) 575C, 38-41

USA - Utah - Grand County - Moab (8 mls SW of) - Cane Creek potash mine of the Texas Gulf Sulphur Company

- USA: NMNH-Washington - Type: T: 120627 (U.S.Geol.Surv., OB Raup)

Brammalite-2M1

Bannister FA: Min.Mag.(1943) 26, 304-307

Great Britain - Wales (South) - Llandebie

- United Kingdom: NHM-London - Type: HT: BM 1942,25 and 26
- USA: NMNH-Washington - Type: T: 142505 (don. NHM-London, part of BM 1942,26)

A series name of interlayer-deficient micas, dioctahedral: see M Rieder (1998) Nomenclature of the micas. 7 p.

Brandholzite

Friedrich A, Wildner M, Tillmanns E: Mitt.d.Österr.Min.Ges.(1998) 143, 276-278

Germany - Bayern - Fichtelgebirge - Brandholz-Goldkronach

- Austria: IMK-Wien - Type: T:

In a hydrothermal gold-quartz vein.

Brannerite

Hess FL and Wells RC: J.Franklin Inst.,Philadelphia (1920) 189(2), 225-237 and 779

USA - Idaho - Custer County - Kelly Gulch

- USA: NMNH-Washington - Type: T: 105793 (don. U.S.Geol.Surv., 1948) and 114997 (found in the coll., 1948)

Brannockite

White JS, Arem JE, Nelen JA, Leavens PB, Thommsen RW: Min.Rec.(1973) 4, 73-76

USA - North Carolina - Cleveland County - Kings Mountains (near) - Foote Mineral Company Spodumene mine

- United Kingdom: NHM-London - Type: CT: BM 1978,603
- USA: NMNH-Washington - Type: T: 125045 (don. C Hudgins, 1972)

Brassite

Fontan F, Orliac M, Permingeat F, Pierrot R, Stahl R: Bull.Soc.fr.Min.Crist.(1974) 96, 365-370

Czech Republic - Zapadocesky (Western Czechy) - Jachymov

- France: ENSM-Paris - Type: HT: (with a label: "Lab. Toulouse 1974 = type")

Bravoite

Hillebrand WF: Amer.J. Sci., ser. 4 (1907) 24, 141-151

Peru - Junin Dep. - Cerro de Pasco (near) - Minasragra (in V-ores)

- United Kingdom: NHM-London - Type: CT: BM 1940,28
- USA: NMNH-Washington - Type: T: 087457

Discredited species = nickeloan Pyrite; see Amer.Min.(1989) 74, 1172-1173

Brazilianite

Pough FH and Henderson EP: Mineracao e Metalurgia, Rio de Janeiro (1945) 8, 334

Brazil - Minas Gerais - Concelheira Pena district - Rio Doce and Rio Sao Mathews (S slope of hill dividing), Divino River (near the head of a small tributary of)

- USA: NMNH-Washington - Type: T: 105048 (don. AMNH-New York, 1945)

Bredigite

Tilley CE and Vincent HCG: Min.Mag.(1948) 28, 255-271

Great Britain - Northern Ireland - County Antrim - Larne - Scawt Hill

- United Kingdom: NHM-London - Type: CT: BM 1956,385

From the dolerite/chalk contact-zone.

Brendelite

Krause W, Bernhardt H-J, Mccammon C, Effenberger H: Min.&Petr.(1998) 63, 263-277

Germany - Sachsen - Schneeberg (3km SW) - Guldener Falk mine

- Germany: SMMG-Dresden - Type: T:

Dumps of the 16th century.

Brenkite

Hentschel G, Leufer U, Tillmanns E: Neues Jahrb.Min.,Mh.(1978) 325-329

Germany - Rheinland-Pfalz - Eifel - Laacher lake volcano area, Brenk (0.5km W of) - Schellkopf

- USA: NMNH-Washington - Type: CT: 137256

From the quaternary phonolite, hydrothermal.

Brianroulstonite

Grice JD, Gault RA, Velthuisen J van: *Can.Min.*(1997) 35, 751-758

Canada - New Brunswick - Kings County - Cardwell Parish - Penobsquis (5km E)

- Canada: CMN-Ottawa - Type: CT: 81500 (several fragments up to 0.5mm, 3 single xl mounts and 3 WDS mounts)

Discovered in a piece of drill core from the Potsh Corporation of Saskatchewan mine

Brianyoungite

Livingstone A and Champness PF: *Min.Mag.*(1993) 57, 665-670

Great Britain - England - Cumbria - Alston (near) - Brownley Hill mine

- United Kingdom: RMS-Edinburgh - Type: HT:

Briartite

Francotte J, Moreau J, Ottenburgs R: *Bull.Soc.fr.Min.Crist.*(1965) 88, 432-437

Zaire - Shaba - Kipushi - Prince Léopold mine

- France: ENSM-Paris - Type: HT:
- United Kingdom: NHM-London - Type: CT: 1967,271
- Belgium: UCL-Louvain-la-Neuve - Type: HT: U 309

Brindleyite

Maksimovic Z and Bish DL: *Amer.Min.*(1978) 63, 484-489

Greece - Megara - Marmara bauxite deposit

- USA: NMNH-Washington - Type: T: 136982 (don. Z Maksimovic, 1977; orig. no. 5517)

Britholite-(Ce)

Winther C: *Meddr Gronland*,(1899) 24, 190

Greenland - South Greenland - Narsaq (Narsaq) - Ilímaussaq Complex - Naujakasik

- Denmark: GMK-Copenhagen - Type: CT (crist.): 1982.45 (Vials with crystals)
- United Kingdom: NHM-London - Type: CT: 85379

Brizziite

Sabelli F and Olmi F: *Rivista Min. Italiana* (1994) 17, n3, 271-273 and *Eur.J.Min.*(1994) 6, 667-672

Italia - Toscana - Siena - Siena (ca. 20 km SW of), Rosia (near) - Le Cetine mine

- Italy: MMUFI-Firenze - Type: HT: 2037/RI

Brockite

Fischer FG and Meyrowitz R: *Amer.Min.*(1962) 47, 1346-1355

USA - Colorado - Custer County - Querida, Wet Mts. - Bassik mine (in a prospected pit near the)

- USA: NMNH-Washington - Type: T: 121952 (don. U.S.Geol.Surv., 1969)

Brodtkorbite

Paar WH, Topa D, Roberts AC, Criddle AJ, Amann G, Sureda RJ: *Can.Min.*(2002) 40, 225-237

Argentina - La Rioja - Sierra de Cacho (Umango) district - Sierra de Cacho mountain range - Tuminico la dump (S28 49.9', W68 38.04')

- Austria: MIU-Salzburg - Type: HT: 14600 to 14602
- United Kingdom: NHM-London - Type: CT: BM 1998,173

Bromellite

Aminoff G: *Zeits.Krist.Min.*(1925) 62, 113-122

Sweden - Värmland - Filipstad - Filipstad - Langban

- Sweden: SMNH-Stockholm - Type: HT: 24093

Brownmillerite

Hentschel G: Neues Jahrb.Min.,Mh.(1964) 22-29

Germany - Rheinland-Pfalz - Eifel - Laacher lake volcano area, Mayen (2km N of) - Bellerberg

- Germany: MMUKö-Köln - Type: HT: M5026/86 (620g)
- USA: NMNH-Washington - Type: T: 120045

First known as a synthetic product, later found in Portland cement and in dolomite-silica fire bricks.

Brucite

Beudant FS: Traité élément.Min.(1824) p. 838

USA - New Jersey - Hudson County - Hoboken

- United Kingdom: NHM-London - Type: CT: BM 1911,730

Brüggerite

Mrose ME, Ericksen GE, Marinenko JW: Progr.Abstr.,Geol.Soc.Amer.,Ann. Meeting (1971) p. 653

Chile - Antofagasta - Oficina Lautaro - Tantal-nitrate district - Pampa del Pique III

- USA: NMNH-Washington - Type: T: 122445 (U.S.Geol.Surv., thru ME Mrose, 1977)

Oficina, as used in the nitrate fields, refers to the site of the plant for treating nitrate ore

Brugnatellite

Artini E: Atti R.Accad.Lincei.Rend.Cl.Sci.fis.mat.nat., Roma (1909) ser.5, 18, 3

Italia - Lombardia - Sondrio - Val Malenco - Ciappanico asbestos mine

- Italy: MCSN-Milano - Type: T: M22010, 190, 203, 217, 221 and 297 (coll. ing. F Mauro as well as M22188 and M22196)

Buchwaldite

Olsen E, Erlichman J, Bunch TE, Moore PB: Amer.Min.(1977) 62, 362-364

Meteorite-Greenland - Westgreenland (N76 08', W64 56') - Meteorite Cape York (Agpalilik specimen) - Iron, Octahedrite, IIIA

- USA: FMNH-Chicago - Type: [HT (part of the):
- Denmark: GMK-Copenhagen - Type: HT: 1967.410 (1 specimen originally approx. 22 tons)

Buckhornite

Francis CA, Criddle AJ, Stanley CJ, Lange DE, Shieh S, Francis JG: Can.Min.(1992) 30, 1039-1047

USA - Colorado - Boulder County - Jamestown district - Buckhorn mine (= former Pb-Ag-mine) (N40 08', W105 24')

- USA: HMM-Cambridge - Type: CT: 126786/7 (mainly a polished mount E1102, registered as BM 1991,51)
- USA: NMNH-Washington - Type: CT: (cit. Francis et al., 1992)

Buddingtonite

Erd RC, White DE, Fahey JJ, Lee DE: Amer.Min.(1964) 49, 831-850

USA - California - Lake County - Sulphur Bank Quicksilver mine

- USA: NMNH-Washington - Type: T: 116974, 132920, 147604 (don. U.S.Geol.Surv., RC Erd, 1963/1964)

Buergerite

Donnay G, Ingamells CO, Mason B: Amer.Min.(1966) 51, 198-199

Mexico - San Luis Potosi - Municipio de Mexquitic - Mexquitic

- USA: NMNH-Washington - Type: T: 122200 (don. B Mason, 1970)

The man who discovered and mined all the buergerite that reached the mineral world has died and told no one the exact location.

Bukovite

Johan Z and Kvacek M: Bull.Soc.fr.Min.Crist.(1971) 94, 529-533

Czech Republic - Jihomoravsky (Southern Moravia) - Rozna mining district - Dolni Rozinka (SSE of) - Bukov - (and Petrovice)

- France: ENSM-Paris - Type: HT: (don. Z Johan, 1975)

Bukovskyite

Novak F, Povondra P, Vtelensky J: Acta Univ. Carolinae, Geol.(1967) 4, 297-325

Czech Republic - Stredocesky (Central Czechy) - Kutna Hora - Kank

- Czech Republic: CUP-Praha - Type: HT: 14240 (12x9cm)
- France: MHN-Paris - Type: T: 178.162 (don. NMCR, Praha)

Bulachite

Walenta K: Der Aufschluss,(1983) 34, 445-451

Germany - Baden-Württemberg - Schwarzwald (N) - Neubulach

- Germany: IMKU-Stuttgart - Type: HT/CT: BU1,27

Bultfonteinite

Parry J, Williams AF, Wright FE: Min.Mag.(1932) 23, 145-162

South Africa - Northern Cape Province - Kimberley - Bultfontein

- United Kingdom: NHM-London - Type: HT: BM 1928/78

from a dolerite intrusion cutting kimberlites

Burbankite

Pecora WT and Kerr JH: Amer.Min.(1953) 38, 1169-1183

USA - Montana - Hill County - Box Elder (24 mls E of), Rocky Boys Indian Reserv., Big Sandy Creek (at the head of) - Vermiculite Prospects

- USA: NMNH-Washington - Type: T: 106843 (U.S.Geol.Surv., 1954)

Burckhardtite

Gaines RV, Leavens PB, Nelen JA: Amer.Min.(1979) 64, 355-358

Mexico - Sonora - Municipio de Moctezuma - Moctezuma - Moctezuma mine

- USA: HMM-Cambridge - Type: CT: 125476 (don. PB Leavens, 1979)

Burckhardtite

Gaines RV, Leavens PB, Nelen JA: Amer.Min.(1979) 64, 355-358

Mexico - Sonora - Municipio de Moctezuma - Moctezuma - Moctezuma mine

- USA: NMNH-Washington - Type: T: 136509, 164347/8 (don. RV Gaines, 1977 and 1987) and 144110 (don. PB Leavens, 1978)

Burkeite

Foshag WF: Amer.Min.(1935) 20, 50-56

USA - California - San Bernardino County - Searles Lake - Well 34: depth 96-125 feet

- USA: NMNH-Washington - Type: T: 102867/72 (don Amer. Potash and Chem.Corp., 1936) and 097277 (don WF Foshag, 1919)

First description of the synthetic compound: JE Teeple in Journ.Indust.Engin.Chem., Easton (1921) 13, 251

Burpalite

Merlino S, Perchaiazzi N, Khomyakov AP, Pushcharovskii DYU, Kulikova IM, Kuzmin VI: Eur.J.Mineral.(1990) 2, 177-185

Russia - Buryatskaya A.R. - Baikal Lake (120 km NE of) - Burpal alkalic massif (N56 33', E110 45')

- Russia: FMM-Moscow - Type: T: r300
- Russia: MM-St.Petersburg - Type: T: 2042/1
- Italy: MSNU-Pisa - Type: CT:

Buryatite

Malinko SV, Chukanov NV, Dubinchuk VT, Zadov AE, Koporulina EV: ZVMO (2001) 130/2, 72-78

Russia - Buryatskaya A.R. - Solongo contact-metamorphic Boron-deposit

- Russia: FMM-Moscow - Type: T:

Bushmakinite

Pekov IV, Kleimenov DA, Chukanov NV, Yakubovich OV, Massa W, Belakovskiy DI, Pautov LA: ZVMO (2002) 131/2, 62-71

Russia - Ural-Mid. - Yekatrinburg (18 km NE of) - Berezovskoye Au-deposit

- Russia: FMM-Moscow - Type: T:

Bussenite

Khomyakov AP, Men'shikov YuP, Nechelyustov GN, Zhou Huyun: ZVMO (2001) 130/3, 50-55

Russia - Kola Peninsula - Khibiny alkaline massif - Kukisvumchorr Mt.

- Russia: FMM-Moscow - Type: T: 2621/1

Bustamite

Brongniart A: Ann.Sci.Nat.(1826) 8, 411

Mexico - Puebla - Tetela de Ocampo

- France: MHN-Paris - Type: CT: 25.323 (don. A Brongniart)

Presumably a mixture of rhodonite and johannsenite. The species is new defined by WT Schaller in: Amer.Min.(1938) 23, 575-582 (581-582), from USA, New Jersey, Franklin Furnace (compare the NT)

Butlerite

Lausen C: Amer.Min.(1928) 13, 203-229

USA - Arizona - Yavapai County - Jerome - United Verde mine

- USA: HMM-Cambridge - Type: T: 90539 (don. Univ. Arizona, 1929)
- USA: NMNH-Washington - Type: T: 095953 (don. C Lausen, 1929)

Formed by the burning of the pyritic ore in the mine.

Bütschliite

Milton C and Axelrod JM: Amer.Min.(1947) 32, 607-624

USA - Idaho - Bonner County - Kaniksu Nat. Forest - Coolin (first TL)

- USA: NMNH-Washington - Type: T: 105675 (don. U.S.Geol.Surv., thru C Milton, 1948; on same specimen with type Fairchildite)

USA - Arizona - Coconino County - Grand Canyon Nat. Park (second TL)

- USA: NMNH-Washington - Type: T: 105676 (don. U.S.Geol.Surv., thru C Milton, 1948; on same specimen with a type of fairchildite)

Formed from fairchildite in the fused wood ash of burnt trees.

Buttgenbachite

Schoep A: C.R.Acad.Sci.Paris,(1925) 181, 421-422

Zaire - Shaba - Likasi - Likasi open pit (in cavities of cuprite)

- Belgium: ULG-Liège - Type: CT: 9.482 and 16.915

Byelorussite-(Ce)

Shpanov EP, Nechelyustov GN, Baturin SV, Solntseva LS: ZVMO,(1989) 118, n5, 100-107

Belarus - Homel district - Zhitkovichskij horst - Diabazovoe deposit

- Russia: FMM-Moscow - Type: T:

Hydrothermal

Bystrite

Sapozhnikov AN, Ivanov VG, Piskunova LF, Kashaev AA, Terentieva LE, Pobedimskaya EA: ZVMO,(1991) 120, n3, 97-100

Russia - Irkutsk Oblast - Baikal Lake, S-Slyudianka - Malo-Bystrinskoye lazurite deposit

- Russia: FMM-Moscow - Type: T: (no No.)

Byströmite

Mason B and Vitaliano CJ: Progr.Min.Soc.Amer.(1950) p. 16

Mexico - Sonora - Municipio de Heroica Caborica - El Antimonio - La Fortuna mine

- United Kingdom: NHM-London - Type: CT: BM 1951,300
- USA: NMNH-Washington - Type: T: 106194 (don. B Mason, 1951)

Compare same authors in: Amer.Min.(1952) 37, 53-57