

**Hagendorfite**

Strunz H: Neues Jahrb.Min.,Mh.(1954) 252-255

Germany - Bayern - Oberpfalz - Hagendorf pegmatites, Waidhaus (2km NW of) - (76m level)

- Germany: IMK-TU-Berlin - Type: CT: 11 and 1201 (two specimens with spathic aggregates up to 10x7x2cm, 89m level); HT is missing

**Haggertyite**

Grey IE, Velde D, Criddle AJ: Amer.Min.(1998) 83, 1323-1329

USA - Arkansas - Pike County - Murfreesboro (near) - Prairie Creek lamproite

- United Kingdom: NHM-London - Type: T: BM 1997,14
- USA: NMNH-Washington - Type: T:
- USA: UMASS-Amherst - Type: T:

**Häggite**

Evans HT and Mrose ME: Acta.Cryst.(1958) 11, 56-58

USA - Wyoming - Crook County - Carlile (from a sandstone drill taken near)

- USA: NMNH-Washington - Type: T: 162623 (don. ME Mrose, thru JJ Trelawney coll., 1958)

Compare HT Evans and ME Mrose in: Amer.Min.(1960) 45, 1144-1166

**Haigerachite**

Walenta K, Theye T: Aufschluss,(1999) 50, 1-7

Germany - Baden-Württemberg - Schwarzwald - Haigerachtal (near Gengenbach) - Silberbrünnle mine (from the dump)

- Germany: IMKU-Stuttgart - Type: T:
- Germany: SMN-Stuttgart - Type: T:

**Hainite**

Blumrich J: Tschermaks Min.Petr.Mitt.(1893) 13, 472

Czech Republic - Severocesky (Northern Czechy) - Bilina (near) - Hradiste Mountain

- France: MHN-Paris - Type: HT/NT: 100.1196 (orig. Blumrich, restudied by Z Johan and F Cech, see below)

TL of the first description: Northern Bohemia, Mildenau (near), Hoher Hain. - New definition of the species by Z Johan and F Cech in: C.R.Acad.Sci. Paris (1989) 308 (ser. II), 1237-1242

**Hakite**

Johan Z and Kvacek M: Bull.Soc.fr.Min.Crist.(1971) 94, 45-48

Czech Republic - Jihocesky (Southern Czechy) - Predborice

- Czech Republic: CUP-Praha - Type: CT:
- France: ENSM-Paris - Type: [CT:

In epithermal calcite veins.

**Halloysite**

Berthier P: Ann.Chim.Phys., sér. 2 (1826) 32, 332-335

Belgium - Liege province - Liège (near) - Angleur

- France: MHN-Paris - Type: T: 28.133 (don. O d'Halloy)

Name: Omalius d'Halloy (1707-1789) who first described it

**Hambergite**

Brogger WC: Zeitschr.Kryst.Min.(1890) 16, spez. Theil, p. 65

Norway - Telemark - Barkevik - Kragero - Helgeroa [Langesundfjord area

- France: MHN-Paris - Type: T: 109734 (don. WC Brogger)
- USA: NMNH-Washington - Type: T: 116994 (don. WC Brogger)
- Sweden: SMNH-Stockholm - Type: HT: 332865

**Hammarite**

Johansson K: Arkiv Kemi, Min.Geol.(1924) 9/8, 11  
*Sweden - Kalmar - Västervik - Västervik - Gladhammar*

- Sweden: SMNH-Stockholm - Type: T: 24098

**Hanawaltite**

Roberts AC, Grice JD, Gault RA, Criddle AJ, Erd RC: Powder Diffraction,(1996) 11, 45-50  
*USA - California - San Benito County - New Idria district - Clear Creek mercury mine (a small prospect pit near the) (N36 22'59", W120 43'58")*

- Canada: GSC-Ottawa - Type: HT: NMC 67396

**Hanksite**

Hidden WE: Amer.J.Sci.(1885) ser. 3, 30, 133-135  
*USA - California - San Bernardino County - Searles (Borax) Lake (in drill cores)*

- France: MHN-Paris - Type: T: 87.281 (don. HG Hanks)
- USA: NMNH-Washington - Type: T: 081217 (don. HG Hanks, 1895)
- Austria: NHMW-Wien - Type: CT: E4854/8

**Hannayite**

Ulrich GHF and vom Rath G: Ber.Niederrheinische Ges.(1878) 35, 11 and 36, 5  
*Australia - Victoria - Ballarat (SW of) - Skipton Caves (S37 41', E143 22')*

- France: MHN-Paris - Type: T: 99.505 (don. vom Rath)

**Hannebachite**

Hentschel G, Tillmanns E, Hofmeister W: Neues Jahrb.Min.,Mh.(1985) 241-250  
*Germany - Rheinland-Pfalz - Eifel - Laacher lake volcano area, Hannebach (1km ENE of) - Hannebacher Ley*

- Germany: NMM-Mainz - Type: HT/CT: M1990/3093 (<1g)

*From the quaternary basaltic top (in porous melilite-mepherine-leucitite).*

**Haradaite**

Watanabe T: Chem.Index Min.(1963) 2nd ed., appendix pp. 57 and 104  
*Japan - Kyoshu - Kagoshima Pref. - Yamato mine*

- Japan: NSM-Tokyo - Type: T: M-1511 (2 flakes)

*Second TL = Japan, Honshu, Iwate Pref., Noda Tamagama mine*

**Hardystonite**

Wolff JE: Proc.Amer.Acad. Arts and Sci.(1899) 34, 479  
*USA - New Jersey - Sussex County - Hardyston Township - Franklin*

- France: MHN-Paris CT (chem.) - Type:: 100.767 ("echantillon original ayant servi á la description chimique")
- USA: HMM-Cambridge - Type:: 113594, 113608 (don. JE Wolff, 1899)

**Harrisonite**

Roberts AC, Stirling JAR, Grice JD, Frisch T, Herd RK, Jambor JL: Can.Min.(1993) 31, 775-780  
*Canada - Northwest Territories - Franklin district - Boothia Peninsula - Arcedeckne Island (N71 54', W95 23')*

- Canada: CMN-Ottawa - Type: CT: 59685 (2 single xls mounts, 5 Gandolfi xls, 4 thin sections)
- Canada: NMCC-Ottawa - Type: HT: 66402

*Compare JD Grice and AC Roberts in: Can.Min.(1993) 31, 781-785 (structure)*

**Harstigitite**

Flink G: KVA handl., bihang,(1886) 12, 59-63  
*Sweden - Värmland - Filipstad - Filipstad - Harstigen*

- Sweden: SMNH-Stockholm - Type: HT: 531610

**Hashemite**

Hauff PL, Foord EE, Rosenblum S, Hakki W: Amer.Min.(1983) 68, 1223-1225

*Jordan - (West-Central) - Amman (60 km SE of) - quarries in a phosphatic carbonate (N 31 30', E 36 15')*

- USA: NMNH-Washington - Type: T: 146183 (don. U.S.Geol.Surv., thru PL Hauff, 1979)

**Hastingsite**

Adams FD, Harrington BJ: Amer.Journ.Sci.,4th ser.(1896) 1, 212

*Canada - Ontario - Hastings County*

- France: MHN-Paris - Type: T: 110.459

**Hastite**

Ramdohr P, Schmitt M: Neues Jahrb.Min.,Mh.(1955) 133-142

*Germany - Niedersachsen - Harz (W) - Lautenthal (near) - Trogtal quarry*

- USA: NMNH-Washington - Type: T: 112811 (on the same specimen with trogtalite-type, don. P. Ramdohr)

**Hatchite**

Solly RH and Smith GFH: Min.Mag.(1912) 16, 287-289

*Switzerland - Wallis - Binntal - Lengenbach*

- United Kingdom: NHM-London - Type: T: 1913,399

*F Marumo and W Nowacki in: Zeitschr.Krist.(1967) 125, 249-265 (structure)*

**Hatrurite**

Gross S: Geol.Surv. Israel Bull.(1977) 70, 80p.

*Israel - Hatrurim basin (W of Dead Sea)*

- Israel: GSI-Jerusalem - Type: CT: SG 172 and SG 598

**Hauckite**

Dunn PJ, Peacor DR, Sturman BD: Amer.Min.(1980) 65, 192-195

*USA - New Jersey - Sussex County - Ogdensburg - Sterling Hill mine (800' level, 935 south stope)*

- USA: AMNH-New York - Type: CT: T45495
- USA: NMNH-Washington - Type: HT/CT: 142854 (don. A Kraissl, 1978; <1mg) and 164107 (don. A Kraissl, 1986)
- Canada: ROM-Toronto - Type: CT: M35860

**Hauerite**

Haidinger W: Nat.Abh. Wien (1846) 1, 101-110

*Slovakia - Banska Stiavnica - Kalinka*

- Austria: NHMW-Wien - Type: CT: A.k.894, A.b.6859, A.x.421 (6 samples)

*TL at the time of description: Hungary, Neusohl, Kalinka*

**Häüyne**

Bruun-Neergard TC: J.Chem.Phys.;JCS Schweigger (1807) 4, 417

*Italia - Campania - Napoli - Vesuvio, Monte Somma*

- France: MHN-Paris - Type: T: H2395ff (coll. RJ Häüy)

*Compare same author in: J. des Mines (1807) 21, 365*

**Hawleyite**

Traill RJ, Boyle RW: Amer.Min.(1955) 40, 555-559

*Canada - Yukon Territory (central) - Galena Hill area, Keno - Hector-Calumet mine*

- Canada: GSC-Ottawa - Type: HT: 12164 (50mg)

**Hawthorneite**

Haggerty SE, Grey IE, Madsen IC, Criddle AJ, Stanley CJ, Erlank AJ: Amer.Min.(1989), 74, 668-675  
*South Africa - Northern Cape Province - Kimberley - Bultfontein-pipe mine*

- United Kingdom: NHM-London - Type: T: BM 1988,71

**Haycockite**

Cabri LJ, Hall SR: Amer.Min.(1972) 47, 689-708  
*South Africa - Eastern Transvaal - Lydenburg District - Moiohoek Farm 255 KT*

- USA: NMNH-Washington - Type: T: 124965A0 (same spec. with mooiohoekite-type)
- Canada: ROM-Toronto - Type: CT: M30992 (<1mg)

**Haynesite**

Deliens M and Piret P: Can.Min.(1991) 29, 561-564  
*USA - Utah - San Juan County - Blandin (near) - Repete mine (as crusts on mud- and sandstones of the Morrison Formation)*

- Belgium: IRSNB-Bruxelles - Type: HT: RC 3922

**Heazlewoodite**

Petterd WF: Catal. Minerals of Tasmania, 2nd ed.(1896) p. 47  
*Australia - Tasmania - Waratah district - Heazlewood - Lord Brassey Ni-mine (S41 27', E145 33')*

- USA: NMNH-Washington - Type: T: R00641

**Hechtsbergite**

Krause W, Bernhardt H-J, Blass G, Effenberger H, Graf HW: Neues Jahrb.Mh.(1997) 271-287  
*Germany - Baden-Württemberg - Schwarzwald - Hausach - a quarry in the Hechtsberg gneiss*

- Germany: RUB-Bochum - Type: T:

**Hectorfloresite**

Ericksen GE, Evans HT, Mrose ME, McGee JJ, Marinenko JW, Konnert JA: Amer.Min.(1989) 74, 1207-1214  
*Chile - Tarapacá - Oficina Victoria (closed 1979) - Alianza mine (Rajo no. 13)*

- USA: NMNH-Washington - Type: T: ?? (3 specimen and 7g impure synthetic material)

**Hedenbergite**

Berzelius JJ: Nouv.Syst.Min.(1819) 206 and 209  
*Sweden - Södermanland - Nyköping - Nyköping - Tunaberg, Mormorsgruvan*

- France: MHN-Paris - Type: CT (chem.): H6775

**Hedleyite**

Warren MV, Peacock MA: Contr.Can.Min.,Univ. Toronto, Geol.Ser.(1945) 49, 55-69  
*Canada - British Columbia - Similkameen District - Hedley (6.5km SE of) - Good Hope claim*

- Canada: ROM-Toronto - Type: CT(?): M37250 (pol. sect., a few mg) and other probable CT's

**Hedyphane**

Breithaupt A: J.Chem.Phys.(Schweigger),(1830) 60, 310  
*Sweden - Värmland - Filipstad - Filipstad - Langban*

- Germany: BAF-Freiberg - Type: T: 45154

**Heidornite**

Engelhardt W von, Füchtbauer H: Heidelb.Beitr.Min.Petr.(1956) 5, 177-186  
*Germany - Niedersachsen - Nordhorn (NW of, near the NLD/DEU-border) - Frenswegen*

- United Kingdom: NHM-London - Type: CT: BM 1957,370  
*Found in drill core at 1968 m depth in the upper anhydrite of the Zechstein formation.*

**Heinrichite**

Gross EB, Coray AS, Mitchell RS, Walenta K: Amer.Min.(1958) 43, 1134-1143

USA - Oregon - Lakeview County - Lakeview (near)

- USA: NMNH-Washington - Type: T: 121950 (don. U.S.Geol.Surv., 1969)

**Hejtmanite**

Vrana S, Rieder M, Gunter ME: Eur.J.Min.(1992) 4, 35-43

Zambia - Central Prov. - Mkushi River area - Mbolwe Hill

- Czech Republic: CUP-Praha - Type: CT:
- Czech Republic: NMCR-Praha - Type: CT:

**Heliophyllite**

Flink G: Öfvers. KVA handl.(1888) 45, 574

Sweden - Värmland - Filipstad - Filipstad - Harstigen

- Sweden: SMNH-Stockholm - Type: HT: 88:0481

**Hellandite-(Y)**

Brogger WC: Nyt Magazin for Naturvidenskaberne,(1903) 41, 213-221

Norway - Telemark - Kragero - Lindvikskollen

- Norway: MGMU-Oslo - Type: CT: 21846, various
- France: MHN-Paris - Type: T: 109732 (don. WC Brogger)

**Helmutwinklerite**

Süsse P, Schnorrer-Köhler G: Neues Jahrb.Min.,Mh.(1980) 118-124

Namibia - Otavi - Tsumeb

- Germany: MSU-Göttingen - Type: HT: (1 spec.)

**Helvite**

Werner AG: Letztes Min.Syst.(1817) p. 29

Germany - Sachsen - Erzgebirge - Schwarzenberg, Breitenbrunn - Friedefürst-Fundgrube

- Germany: BAF-Freiberg - Type: T: 22941 (?)

**Hematophanite**

Johansson K: Zeits.Krist.(1928) 68, 102

Sweden - Värmland - Filipstad - Filipstad - Jakobsberg

- Sweden: SMNH-Stockholm - Type: HT: 280185

**Hemihedrite**

Williams SA and Anthony JW: Can.Min.(1967) 9, 310

USA - Arizona - Pinal County - Florence mine

- France: MHN-Paris - Type: T: (don. SA Williams)
- United Kingdom: NHM-London - Type: CT: BM 1968,246

**Hemloite**

Harris DC, Hoskins BF, Grey IE, Criddle AJ, Stanley CJ: Can.Min.(1989) 27, 427-440

Canada - Ontario - Lake Superior (NE shore of) - Marathon (35km E of) - Hemlo gold deposit

- Canada: GSC-Ottawa - Type: HT: NMC 65544
- United Kingdom: NHM-London - Type: HT (part of): BM 1986,512 (drill core)[E1210 (pol. section)]

**Hendersonite**

Lindberg ML, Weeks AD, Thompson ME, Elston DP, Meyrowitz R: Amer.Min.(1962) 47, 1252-1272

USA - Colorado - Montrose County - Uravan mineral belt deposits, Paradox Valley (S side of) - J.J. mine

- USA: NMNH-Washington - Type: T: 115888 (don. U.S.Geol.Surv., 1963; 2 vials) and 162609 (don. ME Mrose, thru JJ Trelawney coll.)

Second TL = New Mexico, San Juan County, Eastside mines

**Hendricksite**

Frondel C and Ito J: Amer.Min.(1966) 51, 1107-1123

USA - New Jersey - Sussex County - Franklin

- USA: HMM-Cambridge - Type: CT: 89818, 133712 (descr. from HMM-coll.)
- France: MHN-Paris - Type: T:
- United Kingdom: NHM-London - Type: T: BM 1966,209

**Heneuite**

Raade G, Mladeck MH, Din VK: Neues Jahrb.Mineral.,Mh.(1986) 343-340

Norway - Buskerud - Modum district - Tingelstadtjern

- Norway: MGMU-Oslo - Type: CT: 22041-22043
- USA: NMNH-Washington - Type: HT: 164171

**Henmilite**

Nakai I, Okada H, Masutomi K, Koyama E, Nagashima K: Amer.Min.(1986) 71, 1234-1239

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

- USA: NMNH-Washington - Type: CT: 165482 (don. T Isobe, thru I Nakai, 1988)
- Japan: NSM-Tokyo - Type: CT: M-24641

**Hennomartinite**

Armbruster T, Oberhänsli R, Bermanec V, Dixon R: Schweiz.Min.Petr.Mitt.(1993) 73, 349-355

South Africa - Northern Cape Province - Kuruman District - Kalahari manganese field - Wessels mine

- Switzerland: NMBE-Bern - Type: HT: 25564

**Henritermierite**

Gaudefroy C, Orliac M, Permingeat F, Parfenoff A: Bull.Soc.fr.Min.Crist.(1969) 92, 185-190

Morocco - Anti Atlas - Tachgagalt Mn-mine

- France: ENSM-Paris - Type: HT: (don. F Permingeat, 1970)
- France: FS-Toulouse - Type: CT:
- Morocco: GS-Rabat - Type: CT:
- France: MHN-Paris - Type: HT: 175.139 (= type of C Gaudefroy)

**Henryite**

Criddle AJ, Stanley CJ, Chisholm JE, Fejer EE: Bull.Min.(1983) 106, 511-517

USA - Arizona - Cochise County - Bisbee - Campbell orebody

- United Kingdom: NHM-London - Type: HT: BM 1982,1
- USA: NMNH-Washington - Type: HT: 162714 (don. WW Pinch, 1985)
- Canada: ROM-Toronto - Type: HT (part of): M41881 (don. WW Pinch, 1984; 1-2mg)

**Henrymeyerite**

Mitchell RH, Yakovenchuk VN, Chakhmouradian AR, Burns PC, Pakhomovsky YA: Can.Min.(2000) 38, 617-626

Russia - Kola Peninsula - Kovdor massif - Kovdor iron deposit (N67 03'~, E30 03')

- Russia: GIKB-Apatity - Type: T:

**Hentschelite**

Sieber NHW, Tillmanns E, Medenbach O: Amer.Min.(1987) 72, 404-408

*Germany - Hessen - Odenwald - Reichenbach*

- Germany: MMU-Würzburg - Type: CT:
- Germany: NMM-Mainz - Type: CT:

*A secondary mineral in silicified barite vein.*

**Herderite**

Haidinger W: Phil.Mag.(1828) 2nd ser., 4, 1

*Germany - Sachsen - Erzgebirge - Ehrenfriedersdorf*

- Germany: BAF-Freiberg - Type: HT: 103800 (coll. AG Werner, with a label of W Haidinger: 'Herderit neben Apatit')

**Herzenbergite**

Ramdohr P: Neues Jahrb.Min.(1934) Beilageband 68A, 292

*Bolivia - Oruro Dep. - between Oruro and Uyuni - Maria Teresa mine (?Huari, Teresa mine)*

- United Kingdom: NHM-London - Type: CT: BM 1933,93

**Hetaerolite**

Moore GE: Amer.J.Sci., ser. 3 (1877) 14, 423

*USA - New Jersey - Sussex County - Ogdensburg, Sterling Hill - Passaic Zn-mine*

- USA: HMM-Cambridge - Type: T: 134145 (don. WA Roebling from G Moore)

**Heterogenite-2H**

Deliens M, Goethals H: Min.Mag.(1973) 39, 152-157

*Zaire - Shaba - Likasi - Mindigi open pit*

- Belgium: MRAC-KMMA-Tervuren - Type: HT: RGM 10.800 (minute crystals on polished slide)
- USA: NMNH-Washington - Type: CT: 137.226

**Heterogenite-3R**

Frenzel A: Journ.prakt.Chem., new ser.(1872) 5, 404

*Germany - Sachsen - Erzgebirge - Schneeberg - Wolfgang Maassen mine*

- Germany: BAF-Freiberg - Type: HT: 11752 (coll. Frenzel, 1870)

*Correspond with the heterogenite-3R structure type.*

**Heterosite**

Alluaud F: Annal.Chim.Phys.(1825) 30, 294 (erroneously given as heteposite) -> Alluaud F, Annal.Sci.Nat.(1826) 8, 346

*France - Limousin - Haute Vienne dép. - St Sylvestre - Les Huréaux*

- France: MHN-Paris - Type: CT: 25.24, 30.93?

**Heulandite-Ba**

Lovisato D: Rend.R.Accad.Lincei (1897) 6, 260

*Italia - Sardegna - Cagliari - Capo di Pula*

- United Kingdom: NHM-London - Type: CT: BM 1930,1016

*Original Name = Barium heulandite. New Name after D Coombs et al. in: Can.Min.(1997) 35, 1571-1606*

**Hewettite**

Hillebrand WF, Merwin ME, Wright FE: Proc.Am.Phil.Soc.(1914) 53, 31-54

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

- USA: NMNH-Washington - Type: T: 087459 (don. Am. Vanadium Comp., 1914)

**Hexahydroborite**

Simonov MA, Yamnova NA, Kazanskaya EV, Egorov-Tismenko YuA, Belov NV: DAN-SSSR,(1976) 228, 1337-1340

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

- Russia: FMM-Moscow - Type: T: 80438

**Heyite**

Williams SA: Min.Mag.(1973) 39, 65-68

*USA - Nevada - White Pine County - Ely (13km SE of) - Betty Jo Claim*

- United Kingdom: NHM-London - Type: CT: BM 1972,194
- USA: NMNH-Washington - Type: T: 127424, 135056 (don. SA Williams, 1973-1976)

**Heyrovskyite**

Klominsky J, Rieder M, Kieft C, Mraz L: Mineral.Deposita (1971) 6, 133-147

*Czech Republic - Stredocesky (Central Czechy) - Praha (65km W of) - Hurky*

- Czech Republic: CUP-Praha - Type: CT: 14265

**Hjärneite**

Holtstam D: Eur.J.Min.(1997) 9, 843-848

*Sweden - Värmland - Filipstad - Filipstad - Langban*

- Sweden: SMNH-Stockholm - Type: HT: 920766

**Hibbingite**

Sainni-Eidukat B, Kucha H, Keppler H: Am.Min.(1994), 79, 555-561

*USA - Minnesota - St. Louis County - Duluth (50 to 70km NNE of) - Drill Cores in the Duluth Complex*

- USA: MDNR-Hibbing - Type: HT: Drill Core Library

**Hibonite**

Curien H, Guillemin C, Orcel J, Sternberg M: C.R.Acad.Sci.Paris (1956) 242, 2845-2847

*Madagascar - (South) - Taolarno - Fort Dauphin reg. - Esiva*

- France: ENSM-Paris - Type: CT: (don. "Sorbonne", 1978)
- USA: HMM-Cambridge - Type: T: 106213
- France: MHN-Paris - Type: CT: 155.65/66 (CT of H Curien)

*In alluvial deposits*

**Hibschite**

Cornu F: Tschermaks Min.Petr.Mitt.(1905) 24, 327-328

*Czech Republic - Severocesky (Northern Czechy) - Krushe Hory (E) - Usti - Marianska Hora*

- France: MHN-Paris - Type: T: 105.355 (don. F Cornu)

*TL in the first description: Northern Bohemia, Erzgebirge (E), Aussig, Marienberg. Contactmetamorphic origin: chalk-marl/phonolite.*

**Hidalgoite**

Smith RL, Simons FS, Vlisidis AC: Amer.Min.(1953) 38, 1218-1224

*Mexico - Hidalgo - Municipio de Zimapan - Zimapan (mining district) - San Pasquale mine*

- France: ENSM-Paris - Type: CT:
- USA: HMM-Cambridge - Type: CT: 106373 (USNM, no. 112728)

**Hidalgoite**

Smith RL, Simons FS, Vlisidis AC: Amer.Min.(1953) 38, 1218-1224

*Mexico - Hidalgo - Municipio de Zimapan - Zimapan (mining district) - San Pasquale mine*

- USA: NMNH-Washington - Type: T: 112726/7 (don. U.S.Geol.Surv., thru A Baker, 1957)



**Hiddenite**

Smith JL: Amer.J.Sci.,ser. 3 (1881) 21, 128-130

USA - North Carolina - Alexander County - Hiddenite mine

- Austria: NHMW-Wien - Type: T: E5555

*Discredited species = chromian Spodumene used as gemstone.*

**Hilairite**

Chao GY, Watkinson DH, Chen TT: Can.Min.(1974) 12, 237-240

Canada - Quebec - Rouville County - Mont Saint-Hilaire

- Canada: CMN-Ottawa - Type: CT: 37125 (several mg on matrix)
- Canada: ROM-Toronto - Type: CT: M34803/5 (a few mg)

**Hilgardite-3A**

Hurlbut CS: Amer.Min.(1938) 23, 765-771

USA - Louisiana - Iberville Parish - Choctaw Salt Dome

- USA: HMM-Cambridge - Type: CT: 94929, 100899, 100947 (same specimens as Hilgardite-4M; don. CS Hurlbut)

*First described as Parahilgardite; actual nomenclature see Goose S in: Amer.Min.(1985) 70, 636-637*

**Hilgardite-4M**

Hurlbut CS and Taylor RE: Amer.Min.(1937) 22, 1052-1057

USA - Louisiana - Iberville Parish - Choctaw Salt Dome

- USA: HMM-Cambridge - Type: CT: 94939, 100899, 100947 (don. CS Hurlbut)
- USA: NMNH-Washington - Type: T: R07822 (don. Harvard Univ., thru CS Hurlbut)

*First described as Hilgardite; actual nomenclature see Ghose S in: Amer.Min.(1985) 70, 636-637*

**Hillebrandite**

Wright FE: Amer.J.Sci., ser. 4 (1908) 26, 545-554

Mexico - Durango - Municipio de Cuencame - Velardeña - Terneras mine (8th level)

- France: MHN-Paris - Type: T: 109.395
- USA: NMNH-Washington - Type: T/PT: 86531 (don. FE Wright, 1908) and 95767 (CM Hunt, Ph.D. Thesis 1959, coll. WF Foshag)

**Hingganite-(Y)**

Ding Xiaoshi, Bai Ge, Yuan Zhongxin, Liu Jinding: Acta Petrol.Mineral. Analytica (1984) 3/1, 46-49 (named Xinganite)

China - Manchuria - Greater Kingan area - (in a Be- and REE-bearing granophyre)

- China: NMG-Beijing - Type: T:

*First described as Yttroceberysite by Ding Xiaoshi, Bai Ge, Yuan Zhongxian, Sun Luren in: Geol.Rev. China (1981) 27, 459-465*

**Hingganite-(Yb)**

Voloshin AV, Pakhomovskii YA, Men'shikov YuP, Povarennykh AS, Matvienko EN, Yakubovich O: DAN-SSSR (1983) 270/5, 1188-1192

Russia - Kola Peninsula - Western Keivy - Ploskaya Mt. (amazonite pegmatite)

- Russia: FMM-Moscow - Type: T: 84278-80
- Russia: GIKB-Apatity - Type: T: 5768
- Russia: MM-St.Petersburg - Type: T: 1590/1

**Hinsdalite**

Larsen ES and Schaller: J.Wash.Acad.Sci.(1911) 1, 25-26

USA - Colorado - Hinsdale County - Lake City district, Lake City (3 mls S of) - Golden Fleece mine

- USA: HMM-Cambridge - Type: T: 101680, 101682/3 (don. ES Larsen)
- France: MHN-Paris - Type: T: 111236 (don. ES Larsen)
- USA: NMNH-Washington - Type: T: 086987 and 092971 (don. U.S.Geol.Surv., 1911/1916)
- United Kingdom: NHM-London - Type: T: BM 1957,396

**Hiortdahlite**

Brogger WC: Nyt Magazin for Naturvidenskaberne,(1890, printed 1888) 31, 232-239

Norway - Vestfold - Larvik - Mellom-Aroy [Langesundfjord

- Norway: MGMU-Oslo - Type: CT: 21943, 21944

**Hocartite**

Caye R, Laurent Y, Picot P, Pierrot R, Levy C: Bull.Soc.fr.Min.Crist.(1968) 91, 383-387

Bolivia - Potosí Dep.? - Chocaya - Sn mine of Tacama (found also in the Bolivian mines Hocaya and Colquechaca)

- France: ENSM-Paris - Type: HT: (don. P Picot, 1970)
- France: MHN-Paris - Type: T:

France - Auvergne - Cantal dép. - Fournial (Sn-Ag-mineralization)

- France: ENSM-Paris - Type: HT: from France or Bolivia?
- France: MHN-Paris - Type: T:

**Hochelegaite**

Jambor JL, Sabina AP, Roberts AC, Bonardi M, Owens DR, Sturman BD: Can.Min.(1986) 24, 449-453

Canada - Quebec - Montreal Island and Rouville County - (St. Michel) - Francon quarry and Mont Saint-Hilaire

- Canada: GSC-Ottawa - Type: CT: 64285, 64288
- Canada: ROM-Toronto - Type: CT: M37547 (one specimen, one pol. section, and one x-ray spindle), M37548 (one pol. section, and two x-ray spindles from Ramik's study; Mont Saint-Hilaire)

In vugs of a dawsonite-bearing sill.

**Hodgkinsonite**

Palache C and Schaller WT: J. Washington Acad.Sci.(1914) 3, 474-478

USA - New Jersey - Sussex County - Franklin

- USA: HMM-Cambridge - Type: T: 89875, 89880, 89881
- France: MHN-Paris - Type: T:
- USA: NMNH-Washington - Type: T: 087231 (don. HH Hodgkinson, 1913)

**Hoelite**

Oftedal I: Det Norske Videnskaps-Akademi i Oslo, Resultater av de norske

Norway - Svalbard - Spitsbergen - Mt. Pyramide

- Norway: MGMU-Oslo - Type: HT: 21981

**Hoganite**

Hibbs DE, Kolitsch U, Leverett P, Sharpe JL, Williams PA: Min.Mag.(2002) 66, 459-464

Australia - New South Wales - Broken Hill - Potosi mine

- Australia: BHG-Broken Hill - Type: CT:
- Australia: MOV-Melbourne - Type: T: M47465
- Australia: TAM-Sydney - Type: CT:

**Högbomite**

Gavelin A: Bull.Geol.Inst.Upsala,(1916) 15, 289-316

Sweden - Norrbotten - Jokkmokk - Kvikkjokk - Ruotevare

- United Kingdom: NHM-London - Type: CT: 1923, 1019

**Hogtuvaite**

Grauch RI, Lindahl I, Evans Jr HT, Burt DM, Fitzpatrick JJ, Foord EE, Graff P-R, Hysingjord J: Can.Min.(1994) 32, 439-448

Norway - Rana - Bordvedåga - Hogtuva - (N66 24'15", E13 52'35")

- Norway: MGMU-Oslo - Type: CT: 22027 (4.2g)

**Hohmannite**

Frenzel A: (Tschermarks) Min.Mitt.(1887) 9, 397

Chile - Antofagasta - Antofagasta (NE of) - Caracoles (near) - Sierra Gorda

- Germany: BAF-Freiberg - Type: T: 18623 (don. A Frenzel, 1882)

**Holdawayite**

Peacor DR, Essene EJ, Rouse RC, Dunn PJ, Nelen JA, Grice JD, Knorring O von: Amer.Min.(1988) 73, 632-642

Namibia - Grootfontein district - Asis farm - Kombat mine

- Canada: CMN-Ottawa - Type: CT: 51510, 51511 (several xx, few mg)
- USA: NMNH-Washington - Type: CT: 163209

**Holdenite**

Palache C and Shannon EV: Amer.Min.(1927) 12, 144-148

USA - New Jersey - Sussex County - Franklin

- USA: HMM-Cambridge - Type: HT: 89996 (described from the HMM-AF Holden-coll.)
- USA: NMNH-Washington - Type: T: 095434 (JJ Trelawney coll., 1985) and 162601 (don. C Palache, 1926)

**Hollandite**

Fermor LL: Mining and Geol.Inst. India (1906) 1, 76

India - Jhabua State - Kájli dongri

- France: MHN-Paris - Type: T: 129.214 (don. LL Fermor, 1906)

**Hollingworthite**

Stumpfl EF, Clark AM: Amer.Min.(1965) 50, 1068-1074

South Africa - Northern Transvaal - Burgersfort (25km NE of) - Driekop dunite-pipe mine (in the Bushfield Complex)

- France: ENSM-Paris - Type: CT:

**Holtedahlite**

Raade G, Mladeck MH: Lithos,(1979) 12, 283-287

Norway - Buskerud - Modum district - Tingelstad tjern

- Norway: MGMU-Oslo - Type: CT: 22044,22045

**Holtite**

Pryce MW: Min.Mag.(1971) 38, 21-25

Australia - Western Australia (SW) - Greenbushes tin placers (S33 45', E116 05')

- USA: NMNH-Washington - Type: T: 128674
- Australia: TAM-Sydney - Type: T: D43778
- Australia: WAM-Perth - Type: HT: MDC 550

**Homilite**

Pajikull SR: Geologiska Föreningen i Stockholm Förhandlingar,(1877, publishes 1876) 3, 229-232

Norway - Vestfold - Larvik - Stockkoy island [Langesundfjord

- France: MHN-Paris - Type: CT (chem.): 78142 (Damour)
- Sweden: SMNH-Stockholm - Type: T: 531010

**Honessite**

Heyl AV, Milton C, Axelrod JM: Bull.Geol.Soc.Amer.(1956) 67, 1706 (without name)

USA - Wisconsin - Iowa County - Linden (near) - Linden Pb-Zn-deposit

- USA: NMNH-Washington - Type: T: 117698 (don. U.S.Geol.Surv., 1965)

See the same authors in Amer.Min.(1959) 44, 995-1009 (with name)

**Hopeite**

Brewster D: Edinburgh.Phil.Journ.(1822) 6, 184

Belgium - Liège province - Moresnet (near) - Altenberg Zn-deposit

- France: MHN-Paris - Type: CT (cryst.): 104.452 (coll. A Descloizeauxite, 1879)

**Hörnseite**

Haidinger W: Verhandl.kaiserl.-königl.Reichsanst.Wien,(1859) 11, 41

Romania - Banat - Oravita or Ciclova

- France: MHN-Paris - Type: HT: 104806 (part of the Wien-sample)
- Austria: NHMW-Wien - Type: HT: A.a.415 (one sample)

TL at the time of description: Hungary, Orawitza or Cziklowa

**Horvathite-(Y)**

Grice JD, Chao GY: Can.Min.(1997) 35, 743-749

Canada - Quebec - Rouville County - Mont Saint-Hilaire

- Canada: CMN-Ottawa - Type: CT: 81536 (pieces of matrix, one vial of grains, 5 xl mounts, one WDS mount)

**Hotsonite**

Beukes GJ, Schoch AE, Van der Westhuizen W, Bok LDC, de Bruijn H: Amer.Min.(1984) 69, 979-983

South Africa - Northwestern Cape Province - Pofadder District - Pofadder (65km W of) - Farm Hotson 42

- South Africa: NM-Bloemfontein - Type: HT: K2359
- USA: NMNH-Washington - Type: CT: 162230

**Howardevansite**

Hughes JM, Drexler JW, Campana ChF, Malinconico ML: Amer.Min.(1988) 73, 181-186

El Salvador - Izalco Volcano - Fumaroles (fumarolic sublimate)

- USA: NMNH-Washington - Type: CT: 165494 (don. JM Hughes, 1988)

**Howieite**

Agrell SO, Bown MG, McKie D: Amer.Min.(1965) 50, 278 (abstract)

USA - California - Mendocino County - Laytonville district - Laytonville (5 mls S of)

- United Kingdom: NHM-London - Type: T: BM 1964,544
- USA: NMNH-Washington - Type: MT: 109453

**Huanghoite-(Ce)**

Semenov EI and Chang Pei-Shan: Scientia Sinica (1961) 10, 1007-1011

China - Huang Ho River

- USA: NMNH-Washington - Type: T: 144184

**Huangite**

Li G, Peacor DR, Essene EJ, Brosnahan DR, Beane RE: Amer.Min.(1992) 77, 1275-1284

Chile - Coquimbo - El Indio Au-Ag-Cu-deposit (7km SE of) - Tambo mining district (Reina vein)

- USA: NMNH-Washington - Type: T: 170208/9 (after the lit.)

**Huemulite**

Gordillo CE, Linares E, Toubes RO, Winchell H: Amer.Min.(1966) 51, 1-13

*Argentina - Mendoza (SW) - Malargüe area - Huemul U-mine*

- USA: NMNH-Washington - Type: T: 120076 (don. E Linares, 1967)

**Hühnerkobelite**

Lindberg ML: Amer.Min.(1950) 35, p. 59 and 75

*Germany - Bayern - Bayerischer Wald - Rabenstein - Hühnerkobel*

- United Kingdom: NHM-London - Type: CT: BM 1959,354 and 355

*Discredited species (=var. of alluaudite).*

**Hulsite**

Knopf A and Schaller WT: Am.J.Sci.08/25/323-331

*USA - Alaska - Teller Quad. - Seward Peninsula - Brooks Mountain*

- USA: HMM-Cambridge - Type: T: 96246/7 (don. WT Schaller, 1910 and 1911)
- France: MHN-Paris - Type: T: 110240 (don. WT Schaller)
- USA: NMNH-Washington - Type: T: 086791 (don. U.S.Geol.Surv., thru A Knopf, 1910) and 086989 (don. U.S.Geol.Surv., thru WT Schaller, 1911)
- United Kingdom: NHM-London - Type: CT: BM 1912,612

**Humberstonite**

Ericksen GE, Fahey JJ, Mrose ME: Geol.Soc.Amer., Progr. annual meeting (1967) p. 59

*Chile - Antofagasta - Atacama Desert - Oficina Alemania - Nitrate fields*

- USA: NMNH-Washington - Type: CT: 120898 (specimens, purified material, analysis tube sample; don. U.S.Geol.Surv., thru ME Mrose, 1951)

*Compare ME Mrose, JJ Fahey, GE Ericksen in: Amer.Min.(1970) 55, 1518-1533*

**Humite**

De Bournon JL: Cat.Coll.Min. du Compte de Bournon (1813) 32

*Italia - Campania - Napoli - Vesuvio, Monte Somma*

- France: MHN-Paris - Type: HT: 26.1 (Coll. De Bournon, later coll. Louis XVIII)

**Hummerite**

Weeks AD, Cisney EA, Sherwood AM: Amer.Min.(1951) 36, 326-327 (abstract)

*USA - Colorado - Montrose County - Paradox Valley (SW side of), Jo Dandy Hill - Hummer mine*

- USA: HMM-Cambridge - Type: T: 102345 (don. U.S.Geol.Surv.)
- USA: NMNH-Washington - Type: CT: 106899 (don. AD Weeks)

**Hunchunite**

Wu Shanquan, Yi Yang, Qun Song: Acta Mineral. Sinica,(1992) 12/4, 319-322

*China - Jilin Province - Hunchun River (quaternary alluvial placers along the)*

- China: NMG-Beijing - Type: T:

**Huntite**

Faust GT: Amer.Min.(1953) 38, 4-24

*USA - Nevada - Nye County - Ely (SW of) - Ala-Mar magnesite deposit (sect. 34, T12N, R59E)*

- USA: HMM-Cambridge - Type:: 106372 (part of NMNH 112519)

**Hureaulite**

Alluaud F: Annal.Chim.Phys.(1825) 30, 302

*France - Limousin - Haute Vienne dép. - St Sylvestre - Les Huréaux*

- France: MHN-Paris - Type: T: 105.142, 126.41 (Coll. Descloizeaux)

**Hurlbutite**

Mrose ME: Amer.Min.(1952) 37, 931-940

USA - New Hampshire - Sullivan County - Newport, Chandler's Mill - GE Smith mine

- USA: HMM-Cambridge - Type: CT: 103923, 104598, 104602, 134548

**Hutchinsonite**

Solly RH: Cambridge Phil.Soc.Proc.(1904) 12, 277 and Min.Mag.(1905) 14, 72-82

Switzerland - Wallis - Binntal - Lengenbach

- France: MHN-Paris - Type: CT: 104.1161 (don. RH Solly)
- United Kingdom: NHM-London - Type: T: (many samples)

Chemical definition of the species by GH Smith and GT Prior in: *Min.Mag.*(1907) 14, 283-307. Y Takéuchi, S Ghose, Nowacki in: *Zeitschr.Krist.*(1965) 121, 321-348 (structure)

**Huttonite**

Pabst A: Nature (1950) 166, 157

New Zealand - SW-Island - Gillespie's Beach (isolated in minute grains from beach sands)

- France: ENSM-Paris - Type: CT:
- United Kingdom: NHM-London - Type: T: BM 1950,340
- USA: NMNH-Washington - Type: T: 106265 (don. CO Hutton, 1951)

Compare same author in: *Amer.Min.*(1951) 36, 60-69

**Hyalotekite**

Nordenskiöld AE: GFF,(1877) 3, 382

Sweden - Värmland - Filipstad - Filipstad - Langban

- France: MHN-Paris - Type: T: 99974 (don. A.E. Nordenskiöld)
- Sweden: SMNH-Stockholm - Type: HT: g14914

**Hydrocassiterite**

Buttgenbach H: Les minéraux de Belgique et du Congo belge. Ed. Vaillant-Carmanne, Liège,(1947) 182-183

Zaire - Kivu - Pangi - Atondo tin deposit

- Belgium: ULG-Liège - Type: CT:

**Hydrochlorborite**

Hurlbut CS, Aristarain LF, Erd RC: Amer.Min.(1977) 62, 147-150

Chile - Antofagasta - Salar Carcote (S21 20', W68 10')

- USA: NMNH-Washington - Type: PT: 131036 (don. CS Hurlbut)

First described by Tzu-Chiang Chien and Shu-Cien Chen in: *Sci. Sinica* (1965) 14, 945-946 (in Russian) - from an unspecified locality in China. Hydrochlorborite is a seasonal evaporite mineral.

**Hydrodelhayelite**

Dorfman MD, Chiragov MI: New Data on Minerals of the USSR,(1979) 28, 172-175

Russia - Kola Peninsula - Khibiny massif - Rasvumchorr Mt. - Apatite circus

- Russia: FMM-Moscow - Type: T: 79785
- Russia: MM-St.Petersburg - Type: T: 1178/1

Alteration product of delhayelite in an ijolite-urtite pegmatite

**Hydrodresserite**

Jambor JL, Sabina AP, Sturman BD: Can.Min.(1977) 15, 399-404

Canada - Quebec - Montreal Island - St. Michel - Francon quarry

- Canada: GSC-Ottawa - Type: CT: 13936 (200mg)
- Canada: ROM-Toronto - Type: CT: M34547 and M34600 (about 10mg)

**Hydroglauberite**

Slyusareva MN: ZVMO,(1963) 98, 59-62

*Uzbekistan - Kara-Kalpaksкая AR - Kushanatau*

- USA: NMNH-Washington - Type: T: 148423

*As an alteration product of glauberite; in Tertiary sediments*

**Hydrohonesite**

Nickel EH and Wildman JE: Min.Mag.(1981) 44, 333-337 (and 339-343)

*Australia - Western Australia (central part) - Kambalda (near) - Otter Shoot Ni-mine (S31 12', E121 40')*

- Australia: WAM-Perth - Type: HT/CT: M77a.1991 (few mg), M77b.1991 - formerly 7504 and 4632B

**Hydromagnesite**

Kobell F von: J.prakt.Chem.(1835) 4, 80

*USA - New York - New York City - Hoboken*

- France: MHN-Paris - Type: T: 97592 (don. F von Kobell)

**Hydrombomkulite**

Martini JEJ: Annal.Geol.Survey S.Africa,(1980) 14, no. 2, 1-110

*South Africa - Eastern Transvaal - Nelspruit District - Mbobo Mkulu cave (the big hole)*

- South Africa: GSM-Pretoria - Type: T:

**Hydroniumjarosite**

Kubisz J: Bull.Acad.polonaise, géol.géogr.(1960) 8, 95-99

*Poland - Carpathia Mts. - Thorez mine (coal bed)*

- Poland: AMM-Krakow - Type: CT:

*Second TL: Poland, Carpathia Mts. Staszic sulfide mine*

**Hydroromarchite**

Organ RM, Mandarin JA: Can.Min.(1971) 10, 916(abstr.)

*Canada - Ontario - Kenora District - Winnipeg River - Boundary Falls*

- Canada: ROM-Toronto - Type: HT: M28744 (a few mg)

*An alterations product of tin pannikins.*

**Hydrowoodwardite**

Witzke T: Neues Jahrb.,Mh.(1999) 75-86

*Germany - Sachsen - Annaberg (near) - Königswalde - St. Briccius mine*

- Germany: BAF-Freiberg - Type: HT: 76639

*The mineral was also identified in Sachsen: Schwarzenberg, Gelbe Birke mine; Bärenhecke, St. Christoph mine; Wolkenstein near Marienberg, St. Johannes mine*

**Hydroxyapophyllite**

Dunn PJ, Rouse RC, Norberg JA: Amer.Min.(1978) 63, 196-202

*USA - North Carolina - Ashe County - Jefferson - Ore Knob mine*

- Canada: GSC-Ottawa - Type: HT (part of): 14099 (2g)
- United Kingdom: NHM-London - Type: CT: BM 1977,58
- USA: NMNH-Washington - Type: HT: 115268 (don. Appalachian Sulfides, Inc., 1962)
- Canada: ROM-Toronto - Type: HT (part of): M34670, M35704 (don. PJ Dunn; a few mg)

**Hydroxycancrinite**

Khomyakov AP, Nadezhina TN, Rastsvetaeva RK, Pobedimskaya EA: ZVMO,(1992) 121, n1, 100-105

*Russia - Kola Peninsula - Lovozero massif - Karnasurt Mt.*

- Russia: FMM-Moscow - Type: T: r503/2
- Russia: VGM-Moscow - Type: T: (not confirmed)

*In ultra alkalic pegmatites*

**Hydroxylapatite**

Burri C, Jakob J, Parker RL, Strunz H: Schweiz.Min.Petr.Mitt.(1935) 15, 327-339

*Switzerland - Uri - Urseren - Chämleten (=Kemmliten) quarry*

- Switzerland: ETHZ-Zürich - Type: HT: 193522 (5g)

*Theoretically predicted by P Niggli in: Lehrb.Mineral.(1926) 2nd ed., p. 393*

**Hydroxylbastnäsite-(Nd)**

Maksimovic Z and Panto G: Min.Mag.(1985) 49, 717-720

*Yugoslavia - Montenegro - Niksic*

- Yugoslavia: DMPU-Belgrade - Type: CT:
- Hungary: ELU-Budapest - Type: CT:
- Canada: ROM-Toronto - Type: CT:

*In karst-type bauxite, near its contact with a limestone*

**Hydroxylclinohumite**

Gekimyants VM, Sokolova EV, Spiridonov EM, Ferraris G, Chukanov NV, Prencipe M, Avdonin VN, Polenov

YuA: ZVMO (1999) 128/5, 64-70

*Russia - Ural-S - Kusinsk Fe-Zn-deposit - Zelenzovskaya*

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

**Hydroxyllestadite**

Harada K, Nagashima K, Nakao K, Kato A: Amer.Min.(1971) 56, 1507-1518

*Japan - Honshu - Saitama Pref. - Otaki - Chichibu mine*

- USA: NMNH-Washington - Type: T: 122444 (don. A Kato, 1970)
- Japan: NSM-Tokyo - Type: T: M-15761 (1 sample)

**Hyttsojäte**

Grew ES, Peacor DR, Rouse RC, Yates MG, Su SC, Marquez N: Amer.Min.(1996) 81, 743-753

*Sweden - Värmland - Filipstad district - Langban mines*

- Sweden: SMNH-Stockholm - Type: HT: g14913, g14915

*Found in two museum specimens of hyalotekite-bearing Mn-rich skarn from the Langban mine*