***This document has not been edited and will contain errors and omissions. If you note either could you notify Susan Stocklmayer at***[*simpsonwa@minsocwa.org.au*](mailto:simpsonwa@minsocwa.org.au) ***and the matter will be attended to.***

**Simpson minerals – Volume 4.**

# Acanthite. Ag2S

Moxom Well, Braeside lead field, Pilbara, Western Australia, AJM 13(2):57

Shangri La mine, Kimberley, Western Australia, AJM 16(1):18,19SEM

# Adamite Zn2(AsO4)(OH)

Ashburton Downs

# Aeschynite-(Ce) (Ce,Ca,Fe,Th)(Ti,Nb)2(O,OH)6

Ares Kimberlite, Kimberleys

**Agardite, Ce-dominant.CeCu2+6(AsO4)3(OH)6·3H2O**

Telfer gold mine, Western Australia, AJM 12(1):29-30f

**Agardite, Nd-dominant.NdCu2+6(AsO4)3(OH)6·3H2O**

Telfer gold mine, Western Australia, AJM 12(1):29f, 37f

**Agardite-(Y). YCu2+6(AsO4)3(OH)6·3H2O**

Telfer gold mine, Western Australia, AJM 12(1):29

# Aheylite Fe2+Al6(PO4)4(OH)8·4H2O

Ashburton Downs

# Aikinite. CuPbBiS3

Austin VMS deposit, Yilgarn Craton

**Akrochordite Mn2+5(AsO4)2(OH)4 4H2O**

Milgun (Joint project with BGS) DMP Ann.Report 1977p.169

# Allanite-(Ce). CaCe(Al2Fe2+)[Si2O7][SiO4]O(OH)

Mukinbudin pegmatite field, Jacobson et al., 2007, p166

Cummins Range Carbonatite

# Allanite-(Y). CaY(Al2Fe2+)[Si2O7][SiO4]O(OH)

Mukinbudin pegmatite field, Jacobson et al., 2007, p166

# Aleksite PbBi2Te2S2

Boddington Gold Mine

# Allophane. Al2O3(SiO2)1.3-2.0·2.5-3.0H2O

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):59a, 60f

Penny West gold mine, Youanmi, Western Australia, AJM 18(1):27

# Alluaudite(?). (Na,Ca)(Mn,Mg,Fe2+)(Fe3+,Mn2+)2(PO4)3

Wodgina pegmatite field. Jacobson et al., 2007, p42

# Aluminite Al2(SO4)(OH)4·7H2O

# Old Burbridge Townsite

DMP Annual Report 1978

# Alunite supergroup minerals. KAl3(SO4)2(OH)6

Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):36-37f

**Annabergite. Ni3(AsO4)2·8H2O** Union Jack gold mine, Coolgardie, Western Australia, AJM 19(2):43-44, 43f

**Antlerite. Cu2+3(SO4)(OH)4**

Northampton, Western Australia, AJM 18(1):39

Shangri La mine, Kimberley, Western Australia, AJM 16(1):19

# Aphthitalite. K3Na(SO4)2

Toppin Hill, near Rason Lake

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine* **41** (1977), 33

# Arcanite.K2(SO4)

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

# Archerite. H2K(PO4)

Petrogale Cave, Madura, Eucla, Western Australia, AJM 6(2):108

*Mineralogical Magazine* **41** (1977), 33

# ArdealiteCa2(PO3OH)(SO4)·4H2O

Weelawadji Cave, Eneabba

**Arfvedsonite**

Gifford Creek carbonatite

# Argentopentlandite Ag(Fe,Ni)8S8

Elizabeth Hill silver mine

*Canadian Mineralogist* **12** (1973), 169

# Armalcolite (Mg,Fe2+)Ti2O5

Argyle AK1 diamond mine

# Arseniosiderite Ca2Fe3+3O2(AsO4)3·3H2O

Mount Clement Prospects, Wyloo Station

Geological Survey of Western Australia Professional Papers Report 30, 41-63

# Arsentsumebite, *see also Tsumebite.* Pb2Cu(AsO4)(SO4)(OH)

Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):37f

# Ashburtonite. HCu4Pb4Si4O12(HCO3)4(OH)4Cl

Ashburton Downs, Capricorn Range, Western Australia, AJM 6(2):108f

*American Mineralogist* (1991) 76, 1701-1707

# Aurichalcite. (Zn,Cu)5(CO3)2(OH)6

Shangri La mine, Kimberley, Western Australia, AJM 16(1):19

# Aurostibite. AuSb2

Sunrise Dam gold mine, Yilgarn Craton

*Mineralogy and Petrology (2007) 91: 249–270*

**Awaruite Ni3Fe**

# Babingtonite Ca2Fe2+Fe3+Si5O14(OH)

MINERALOGICAL MAGAZINE, SEPTEMBER 1982, VOL. 46, PP. 401-2

# Baddeleyite ZrO2

# Camel Donga meteorite, [Dundas Shire](https://www.mindat.org/loc-10525.html)

# Cummins Range carbonatite

# Bastnäsite-(Ce). Ce(CO3)F. Several varieties

Mukinbudin pegmatite field. Jacobson et al., 2007, p190

Cummins Range carbonatite

# Bavenite. Ca4Be2+xAl2-xSi9O26-x(OH)2+x (*x* = 0 to 1)

Londonderry, Western Australia, AJM 3(2):95-96f

# Bayldonite. Cu3PbO(AsO3OH)2(OH)2

Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):37f

Bali Lo prospect. Australian Mineralogist 1(19):70

**Beaverite-(Cu). Pb(Fe3+2Cu)(SO4)2(OH)6**

*Mineralogical Magazine* **74** (2010), 919

Shangri La mine, Kimberley, Western Australia, AJM 16(1):19SEM

Whim Creek mine, Western Australia, AJM 4(1):18,19f

Penny West gold mine, Youanmi, Western Australia, AJM 18(1):27

# Bertrandite. Be4Si2O7(OH)2

Giles Pegmatite, Spargoville, Western Australia, AJM 18(2)42, 42f, 43XRD

Mineral Deposita, 1993

Mukinbudin pegmatite field. Jacobson et al., 2007, p165

# Berzelianite. Cu2-xSe (x ≈ 0.12)

Copper Hill in the East Pilbara Region

*Canadian Mineralogist* ***40*** *(2) 2002*

**Beudantite PbFe3+3(AsO4)(SO4)(OH)6**

Shangri La mine, Kimberley, Western Australia, AJM 16(1):

# Beta-uranophane. Not a recognised mineral – could be uranophane-beta

Yinnietharra pegmatite field. Jacobson et al., 2007, 70

**Bindheimite Pb2Sb5+2O7**

Shangri La mine

# Biphosphammite. (NH4)H2(PO4)

*Mineralogical Magazine* **38** (1972), 965

*Mineralogical Magazine* **41** (1977), 33

# Birnessite. (Na,Ca,K)0.6(Mn4+,Mn3+)2O4·1.5H2O

Jingemia Cave, Watheroo

Western Australia Australian Mineralogist 1(48):282-284

*Mineralogical Magazine* **31** (1956), 283

# Bismoclite. BiOCl

Leinster, Western Australia, AJM 8(2):83-85fXRD

*Mineralogical Magazine* **24** (1935), 59

**Bismutoferrite. Fe3+2Bi(SiO4)2(OH)**

Yinnietharra pegmatite field. Jacobson et al., 2007, p70

# Bityite. CaLiAl2(Si2BeAl)O10(OH)2

Londonderry, Western Australia, AJM 3(2):96

# Bloedite Na2Mg(SO4)2·4H2O

# Carr Boyd mine

# DMP Annual Report 1975

# Bobierrite. Mg3(PO4)2·8H2O

Wodgina main pegmatite. Jacobson et al., 2007, p42

# Boehmite AlO(OH) (bohmite in IMA list)

Darling Range

# Boltwoodite (K,Na)(UO2)(SiO3OH)·1.5H2O?

Wilgie Mia Murchison

DMP Annual Report 1975

# Botallackite. Cu2Cl(OH)3

Cams mine, Lake Miranda, Western Australia, AJM 20(1):54

# Boulangerite PbsSb4Sn

Mount Clements Prospect, Wyloo Station

# Bowleyite. See bityite

Londonderry pegmatite. Jacobson et al., 2007, p272

# Brabanite.(?) not recorded – monazite?

Wodgina pegmatite field. Jacobson et al., 2007, p33

# Brackenbuschite ? Pb2Mn3+(VO4)2(OH) ( supposedly reported by Simpson)

Moxom Well

## Breithauptite. NiSb

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):59

# Brockite. (Ca,Th,Ce)(PO4)·H2O

Wodgina pegmatite field. Jacobson et al., 2007, p42

# Brochantite. Cu4(SO4)(OH)6

Mooloo Downs, Murchison, Western Australia

*Mineralogical Magazine* **50** (1986), 295

# Brucite. Mg(OH)2

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):53f, 60f, 59a

# Brushite Ca(PO3OH)·2H2O

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

**Bushmakinite. Pb2Al(PO4)(VO4)(OH)** Penny West gold mine, Youanmi, Western Australia, AJM 18(1):27, 28, 28fEDS

# Caledonite. Cu2Pb5(SO4)3(CO3)(OH)6

Devons Cut, Braeside lead field, Pilbara, Western Australia, AJM 13(2):58,60f

# Calzirtite Ca2Zr5Ti2O16

Cummins Range carbonatite

# Carnotite. K2(UO2)2(VO4)2·3H2O

Tantalite Hill pegmatite. Jacobson et al., p2007, xxxi

# Carrboydite. (Ni1-*x*Al*x* )(SO4)*x* /2(OH)2·*n*H2O (*x* < 0.5, *n* > 3*x* /2)

Carr Boyd mine, Goongarrie, Western Australia, AJM 6(2):110, 112f

*Annual Report CSIRO Mineral Research Laboratory,* Australia. 197 4/75 (1975) 12

# Carrollite CuCo2S4

**Kalgoorlie. Min. Mag. 1978**

# Cassidyite. Ca2Ni(PO4)2·2H2O

Wolf Creek Meteorite – Wolf Creek Crater, Western Australia, AJM 6(2):128

# Celadonite KMgFe3+Si4O10(OH)2

# Walgidee Hills Lamproite

Marble Bar

# Cerianite-(Ce) CeO2

Mount Weld rare earth deposit

# Ceruleite CuAl4(AsO4)2(OH)8(H2O)4

Ashburton Downs

# Chabazite Ca2[Al4Si8O24]·13H2O (which one- there are now 4 varieties)

Government lab report 1961

# Chalconatronite. Na2Cu(CO3)2·3H2O

*Mineralogical Magazine* **43** (1979), 97

**Chalcophanite** **ZnMn4+3O7·3H2O**

Ashburton Downs

**Chamosite**

**Chapmanite. Fe3+2Sb3+(SiO4)2(OH)**

Kempton brothers beryl mine. Jacobson et al, p2007, xxxi

**Chenevixite. CuFe3+(AsO4)(OH)2** Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):35-36f

Nifty copper mine, Western Australia, AJM 8(2):49

# Cheralite. CaTh(PO4)2

Wodgina pegmatite. Jacobson et al, 2007, p42

*Mineralogical Magazine* **30** (1953), 93

# Chevkinite-(Ce) Ce4(Ti,Fe2+,Fe3+)5O8(Si2O7)2

Tholeiitic intrusive rocks Cummins Range carbonatite

*American Mineralogist, Volume 99, pages 1911–1921, 2014*

# Chlorargyrite. AgCl

Elizabeth Hills mine, Dampier, Western Australia, AJM 6(1):42W

# Chrisstanleyite. Ag2Pd3Se4

Copper Hill in the East Pilbara Region

*Canadian Mineralogist* ***40*** *(2) 2002*

*Canadian Mineralogist* **44** (2006), 497

# Churchite Y(PO4)·2H2O

Mt Weld Carbonatite Laterite Western Australia,

*Mineralogical Magazine(1987):51: 468-469*

# Clinoatacamite. Cu2Cl(OH)3

Telfer gold mine, Western Australia, AJM 12(1):35

# Clinobisvanite. Bi(VO4)

Yinnietharra, Western Australia, AJM 6(2):110, 112f

*Mineralogical Magazine* **39** (1974), 847

# Clinochlore, *chromian?* Mg5Al(AlSi3O10)(OH)8 not sure this is a valid mineral

Coobina, Pilbara Province, Western Australia, AJM 16(1):35-37EDSf

# Clinoclase. Cu3(AsO4)(OH)3

Bali Lo mine Australian Mineralogist 1(14)69-70

# Coalingite Mg10Fe3+2(CO3)(OH)24·2H2O

Agnew area

Govt. Chem Lab report 19

## Cobaltite-gersdorffite series. CoAsS. Gersdorffite is a retired name

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):60,61f

# Cobaltian melonite (Ni,Co)Te2

# Hassan and Roberts (2017).(melonite IMA: Co-melonite not submitted]

# Coffinite U(SiO4)·nH2O

*American Mineralogist* **41** (1956), 675

# Collinsite. Ca2Mg(PO4)2·2H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 24, 25f, 26, 29, 35

# Conichalcite CaCu(AsO4)(OH)

Ashburton Downs

# Connellite Cu36(SO4)(OH)62Cl8·6H2O

Ashburton Downs

# Cookeite. (Al,Li)3Al2(Si,Al)4O10(OH)8

Londonderry pegmatite. Jacobson et al, 2007, p272

**Corkite. PbFe3+3(SO4)(PO4)(OH)6**

Whim Creek mine, Western Australia, AJM 4(1):20

# Cornubite. Cu5(AsO4)2(OH)4

Telfer gold mine, Western Australia, AJM 12(1):36f

*Mineralogical Magazine* **32** (1959), 1

# Cornwallite. Cu5(AsO4)2(OH)4

Telfer gold mine, Western Australia, AJM 12(1):36-37f

Bali Lo prospect. Australian Mineralogist 1(19):70

**Coronadite. Pb(Mn4+6Mn3+2)O16**

Braeside lead field, Pilbara, Western Australia, AJM 13(2):58

Magellan lead/zinc deposit

Shangri La mine, Kimberley, Western Australia, AJM 16(1):20

# Corynite. Not a recognised mineral

Mt Martin, Kalgoorlie. Australian Mineralogist 1(19):94

**Cosalite**

# Crandallite. CaAl3(PO4)(PO3OH)(OH)6

Woodlands, Gascoyne region, Western Australia, AJM 14(1):27-36f

# Cronstedtite (Fe2+,Fe3+)3(Si,Fe3+)2O5(OH)4

# Cumengeite Pb21Cu20Cl42(OH)40·6H2O

Ashburton Downs

# Cuprosklodwaskite (?).Cu(UO2)2(SiO3OH)2·6H2O

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Cymatolite. Alteration product of spodumene?

Ubini pegmatite field. Jacobson et al, 2007, p258

**Cyrilovite. NaFe3+3(PO4)2(OH)4·2H2O**

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 24, 25f,

# Cyrtolite. Variety of zircon

Mukinbudin pegmatite field. Jacobson et al, 2007, p185

# Damourite. Alteration product

Mount Farmer pegmatite. Jacobson et al, 2007, p133

**Danalite. Be3Fe2+4(SiO4)3S**

Barbara Gold Mine pegmatites,Jacobson et al, 2007, xxxii

# Danielsite. (Cu,Ag)14HgS8

Coppin Pool, Western Australia, AJM 6(2):110

American Mineralogist, Volume 72, pages 401-403, 1987

# Davidite-(La)(?). La(Y,U)Fe2(Ti,Fe,Cr,V)18(O,OH,F)38

Yinnietharra pegmatite field, Jacobson et al, 2007, p70

# Descloizite-mottramite. PbZn(VO4)(OH)

Devons Cut, Braeside lead field, Pilbara, Western Australia, AJM 13(2):59f

# Moxom Well, Braeside lead field, Pilbara, Western Australia, AJM 13(2):59

# Diaboleite CuPb2Cl2(OH)4

# Ashburton Downs

# Digenite. Cu1.8 S

Shangri La mine, Kimberley, Western Australia, AJM 16(1):20

# Djurleite. Cu31S16

Shangri La mine, Kimberley, Western Australia, AJM 16(1):20

# Duftite PbCu(AsO4)(OH)

Ashburton Downs

# Dundasite-petterdite? PbAl2(CO3)2(OH)4·H2O, PbCr2(CO3)2(OH)4·H2O

Happy Jack mine, Comet Vale, Western Australia, AJM 12(1):17

*Mineralogical Magazine* **38** (1972), 564

# Duplexite (see bavenite)

Londonderry pegmatite. Jacobson et al, 2007, p276

**Dussertite. BaFe3+3(AsO4)(AsO3OH)(OH)6**

Telfer gold mine, Western Australia, AJM 12(1):37

**Edenite**

**Emplectite CuBiS2**

Whim Creek

**Ernienickelite. NiMn4+3O7·3H2O**

Siberia complex, NW of Kalgoorlie, Western Australia, AJM 6(2):111

*Canadian Mineralogist* (1994) 32, 333-337

# Ettringite Ca6Al2(SO4)3(OH)12·26H2O

Victoria Reservoir Dam

**Euclase. BeAlSiO4(OH)** Giles Pegmatite, Spargoville, Western Australia, AJM 18(2):39-44, 41f, 42f, 43XRD, 44a

# Eucryptite. LiAlSiO4

Londonderry pegmatite. Jacobson et al, 2007, p272

# Eulytite see eulytine. Bi4(SiO4)3

Bismuth Hill pegmatite. Jacobson et al, 2007, p70

# Famatinite. Cu3SbS4

Shangri La mine, Western Australia. AJM 16(1)18

# Fergusonite-(Y). YNbO4

Mukinbudin pegmatite field. Jacobson et al, 2007, p166

Cummins Range carbonatite

# Ferrisicklerite. Li1-x(Fe3+,Mn2+)(PO4)

Morrissey Hill pegmatite. Jacobson et al, 2007, p85

**Ferroholmquistite****.** **☐Li2{Fe2+3Al2}(Si8O22)(OH)2**

# Greenbushes pegmatite

*American Mineralogist*, v. 90, p. 1167‒1176.

# Fersmite. (Ca,Ce,Na)(Nb,Ta,Ti)2(O,OH,F)6

Wodgina pegmatite. Jacobson et al, 2007, p42

# Fletcherite CuNi2S4

Kalgoorlie region

*Neues Jahrbuch für Mineralogie* *Monatshefte* (1985), 35

# Florencite-(Ce) CeAl3(PO4)2(OH)6 Also –(La), -(Nd), -(Sm)

Halls Creek region

Mineralogical Record **2** (1971), 166

# Fluocerite. –(Ce) or –(La)? CeF3 or LaF3

Cooglegong pegmatite field. Jacobson et al, 2007, p58

# Fluorapatite. Ca5(PO4)3F

Mukinbudin pegmatite field. Jacobson et al, 2007, p166

Cummins Range carbonatite

# Fluororichterite or fluoro-richterite Na(NaCa)Mg5Si8O22F2

Nullagine, Western Australia, AJM 1(2):36

# Foggite. CaAl(PO4)(OH)2·H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 24, 26, 26f, 27f, 31, 33f, 35

# Formanite. See formanite –(Y)

Cooglegong pegmatite field. Jacobson et al, 2007, p58

# Formanite-(Y). YTaO4

Cooglegong, Pilbara, Western Australia, AJM 6(2):111

# Fornacite. CuPb2(CrO4)(AsO4)(OH)

Whim Creek mine, Western Australia, AJM 4(1):20,21f

# Freibergite not on the IMA list

Shangri La mine

# Frohbergite FeTe2

# North Kalgurii Mine, Kalgoorlie Western Australia.

# 

# *Australian Mineralogist*, 4(4), p.133-140.

# Gartrellite. PbCuFe3+(AsO4)2(OH)·H2O

Ashburton Downs, Western Australia, AJM 6(2):112f, 113; 13(1):35-37f

*Australian Mineralogist* **4** (1989), 83

# Gaspéite. Ni(CO3)

132 North mine, Widgiemooltha, Western Australia, AJM 6(2):98f

# Georgeite. Cu2(CO3)(OH)2

Carr Boyd Ni-mine, Goongarrie, Western Australia, AJM 6(2):113, 114f

*Mineralogical Magazine* **43** (1979), 97

# Gersdorffite. NiAsS

Kanowna, Coolgardie, Western Australia, Bamboo Mining centre, Muccan

*Mineralogical Magazine* **42** (1978), 278

Nevoria mine. *Economic Geology* 1997 V92 pp181-209

# Gillardite. Cu3NiCl2(OH)6

132 North deposit, Widgiemooltha, Western Australia, AJM 13(1):15-18afXRD

*Canadian Mineralogist* **45** (2007), 317

# Glaukosphaerite. CuNi(CO3)(OH)2

Durkin shaft, Kambalda, Western Australia, AJM 6(2):113

*Mineralogical Magazine* **39** (1974), 737

*The Canadian Mineralogist May 01, 1981, Vol.19, 315-324.*

## Godlevskite. (Ni,Fe)9S8

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61a

**Goldmanite Ca3V3+2(SiO4)3**

Nevoria mine Economic Geology 1997 V92 pp181-209

# Gorceixite. BaAl3(PO4)(PO3OH)(OH)6

Mount Weld rare earth deposit

Lithos (1990):24: 151–167.

# Gordonite. MgAl2(PO4)2(OH)2·8H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 26, 27f,

# Goyazite SrAl3(PO4)(PO3OH)(OH)6

Mount Weld rare earth deposit

**Graftonite(?).Fe2+Fe2+2(PO4)2**

Yinnietharra pegmatite field. Jacobson et al, 2007, p70

# Greenalite (Fe2+,Fe3+)2-3Si2O5(OH)4

Numerous BIFs

*Gole, M. (1980) Mineralogy and petrology of very-low metamorphic grade Archaean banded iron formations, Weld Range, Western Australia. American Mineralogist, 65(1-2), 8-25.*

# Groutite Mn3+O(OH)

Ashburton Downs

# Guanine. C5H3(NH2)N4O

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

*Mineralogical Magazine* **41** (1977), 33

# Gypsum *variety selenite.* Ca(SO4)·2H2O. not sure if this is covered under gypsum

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61

The Vugh, Sand Queen mine, Comet Vale, Western Australia, AJM 12(1):19f

# Hafnon Hf(SiO4)

Forrestania rubellite pegmatite, Jacobson et al, 2007, p225

**Haggertyite BaFe2+4Fe3+2Ti5MgO19**

Walgidee Hills, Kimberley, Western Australia,

# Haiweetite(?).Ca(UO2)2(Si5O12)(OH)2·6H2O

Wodgina pegmatite. Jacobson et al, 2007, p42

# Halite. NaCl

Petrogale Cave, east of Madura

*Mineralogical Magazine*, **41,** p. 33-35

# Hannayite (NH4)2Mg3(PO3OH)4·8H2O

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

# Heazlewoodite. Ni3S2

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61-62

**Herbertsmithite. Cu3Zn(OH)6Cl2** Nangaroo mine, Murrin Murrin, Western Australia, AJM 18(1):67W, 67f

*Mineralogical Magazin*e **68** (2004), 527

# Hexahydrite. Mg(SO4)·6H2O. Mentioned in Simpson, but not discussed

Mt Keith Ni-deposit, Western Australia.

*Mineralogical Magazine* **44** (1981), 345

# Hidalgoite PbAl3(SO4)(AsO4)(OH)6

Ashburton Downs

# Hollandite Ba(Mn4+6Mn3+2)O16

Silent Sisters Lead Mine Wyloo

DMP Annual Report 1978

# Holmquistite. ☐Li2(Mg3Al2)Si8O22(OH)2

Greenbushes pegmatite. Jacobson et al, 2007, p217

# Holtite. (Ta0.6☐0.4)Al6BSi3O18

Greenbushes, Western Australia, AJM 6(2):114f, 115

*Mineralogical Magazine* **38** (1971), 21

**Honeaite. Au3TlTe2** Karonie mine, Mount Monger Goldfield, Western Australia, AJM 18(1):67W

*Mineralogical Magazine* **81** (2017), 611

*European Journal of Mineralogy*, v. 28, p. 979–990.

# Huntite CaMg3(CO3)4

132N nickel mine

**Hureaulite. Mn2+5(PO3OH)2(PO4)2·4H2O**

Wodgina pegmatite. Jacobson et al, 2007, p33

**Hydrohonessite. (Ni1-*x* Fe3+*x* )(SO4)*x* /2(OH)2·*n*H2O (*x* < 0.5, *n* >3*x* /2)**

Otter Shoot Ni-mine, Kambalda, Western Australia, AJM 6(2):115f

*Mineralogical Magazine* **44** (1981), 333

# Hydrotalcite. Mg6Al2(CO3)(OH)16(H2O)4

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):67

# Hydroxykenomicrolite (☐,Na,Sb3+)2Ta2O6(OH)

Forrestania rubellite pegmatite. *Nickel and Robinson, 1985*

# Hydroxylapatite. Ca5(PO4)3OH

Nifty copper mine, Western Australia, AJM 8(2):50,51f

# Illite. Not recorded on the IMA master list. What is it?

Nifty copper mine, Western Australia, AJM 8(2):50

# Iodargyrite. AgI

Telfer gold mine, Western Australia, AJM 12(1):39

**Iowaite. Mg6Fe3+2(OH)16Cl2·4H2O**

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):65f, 66

Mt Keith mine, Western Australia, AJM 7(2):83fW

**Iowaite-pyroaurite series. Mg6Fe3+2(OH)16Cl2·4H2O Mg6Fe3+2(CO3)(OH)16·4H2O**

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):66f

## Irarsite. IrAsS

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61

# Jeppeite. (K,Ba)2(Ti,Fe3+)6O13

Walgidee Hills, Kimberley, Western Australia, AJM 6(2):115f

*Mineralogical Magazine* **48** (1984), 263

**Jianshuiite MgMn4+3O7·3H2O**

# Wingellina nickel laterite

# Johannsenite CaMnSi2O6

Nevoria mine. Economic Geology 1997 V92 pp181-209

# Joséite Bi4TeS2 Has been referred to as both –A and –B

Hannan South Deposit

**Kaersutite NaCa2(Mg3AlTi4+)(Si6Al2)O22O**2

Wandagee diatremes

**Kalgoorlieite. As2Te3** Kalgoorlie, Western Australia, AJM 18(1):67W

*Mineralogical Magazine* **80** (2016), 407

# Kambaldaite. NaNi4(CO3)3(OH)3·3H2O

Otter Shoot Ni-mine, Kambalda, Western Australia, AJM 6(2):115f

*American Mineralogist* (1985) 70, 419-422

# Kasolite. Pb(UO2)(SiO4)·H2O

Wodgina pegmatite. Jacobson et al, 2007, p42

# Kimrobinsonite. Ta(OH)3(O,CO3)

Mt Holland, Western Australia, AJM 6(2):116

*Canadian Mineralogist* (1985) 23, 573-576

# Koechlinite. Bi2MoO6

Poona pegmatite field. Jacobson et al, 2007, p113

# Kolarite. PbTeCl2

Sunrise Dam gold mine, Yilgarn Craton

*Mineralogy and Petrology (2007) 91: 249–270*

**Kostovite**. **AuCuTe4**  The Golden Mile, Western Australia, AJM 18(1):14,14f

# Krohnkite Na2Cu(SO4)2·2H2O

Ravensthorpe

# *K-rich feldspar*

Goanna Patch alluvial mining area, Western Australia, AJM 15:59

**Krinovite. Na4[Mg8Cr3+4]O4[Si12O36]**

Youndegin Meteorite – Youndegin, Avon, Western Australia, AJM 6(2):128

# Laurionite PbCl(OH)

Ashburton Downs

# Lavendulan NaCaCu5(AsO4)4Cl·5H2O

# 132N nickel mine

# Bali Hi

# Libethenite. Cu2(PO4)(OH)

Mooloo Downs, Murchison, Western Australia

*Mineralogical Magazine* **50** (1986), 295

# Linarite. CuPb(SO4)(OH)2

Devons Cut, Braeside lead field, Pilbara, Western Australia, AJM 13(2):60f

Koongalin Hill, Braeside lead field, Pilbara, Western Australia, AJM 13(2):60

Northampton, Western Australia, AJM 18(1):44

**Lindsleyite**

**Linnaeite Co2+Co3+2S4**

Kalgoorlie District

# Lithiophorite. (Al,Li)(Mn4+,Mn3+)O2(OH)2

Kalgoorlie, Western Australia. Australian Mineralogist 1(7):26-27

# Lizardite. Mg3Si2O5(OH)4

Mt Keith mine, Western Australia, AJM 7(2):83fW

*Mineralogical Magazine* **31** (1956), 107

# Löllingite FeAs2

Nevoria mine Economic Geology 1997 V92 pp181-209

# Loveringite. (Ca,Ce,La)(Zr,Fe)(Mg,Fe)2(Ti,Fe,Cr,Al)18O38

Jimberlana intrusion, Norseman, Western Australia, AJM 6(2):116

# Lucasite-(Ce). CeTi2O5(OH)

Argyle AK1 diamond mine, Kimberley, Western Australia, AJM 6(2):117

# Luetheite CuAl(AsO4)(OH)2

Ashburton Downs

# Mackintoshite, Variety of thorogummite which is in Simpson

Wodgina pegmatite. Jacobson et al, 2007, p42

**Magnesiochromite**

# Majorite. Mg3(MgSi)(SiO4)3

Coorara Meteorite – Rawlinna, Eucla, Western Australia, AJM 6(2):128

# Maldonite Au2Bi

Nevoria mine. Economic Geology 1997 V92 pp181-209

# Mattagamite CoTe2

# Area south of the Golden Mile, Kalgoorlie/Boulder

Unpublished Doctor of Philosophy Thesis, University of Melbourne, Melbourne

# Metazeunerite. Cu(UO2)2(AsO4)2·8H2O

Bali Lo mine. Australian Mineralogist 1(19):70

## Maucherite. Ni11As8

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):62

**Mawbyite. PbFe3+2(AsO4)2(OH)2**

Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):35-36f

# Mcguinnessite. CuMg(CO3)(OH)2

DeGrussa mine

# McKinstryite Ag5Cu3S4

Elizabeth Hill

*Mineralogical Magazine* **74** (2010), 73

# Co-Melonite. NiTe2 Co variety not recognized by IMA

**Mendozavilite-NaFe. [Na2(H2O)15Fe3+(H2O)6][Mo8P2Fe3+3O35(OH)2]**

Fitzgerald River district, Western Australia, AJM 8(1):11-15afXRD

# Metatorbernite Cu(UO2)2(PO4)2·8H2O

Ashburton Downs

# Metavariscite. Al(PO4)·2H2O

Woodlands, Gascoyne region, Western Australia, AJM 14(1):28

# Metazeunerite Cu(UO2)2(AsO4)2·8H2O

# Bali Lo Copper Mine, Ashburton Downs Station

# The Australian Mineralogist, 14, p. 69-70.

*Canadian Mineralogist* **41** (2003), 489

# Michenerite PdBiTe

# Millerite. NiS

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61a, 62-63

# Millsite. NaCaAl6(PO4)4(OH)9·3H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia. AJM 20(2):19, 26, 28f,

**Minnesotataite** **Fe2+3Si4O10(OH)2**

BIF throughout WA

# Mirabilite Na2(SO4)·10H2O

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

**Mitridatite. Ca2Fe3+3O2(PO4)3·3H2O**

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 25f, 27,27f

# Mixite. Cu6Bi(AsO4)3(OH)6·3H2O

Nifty copper mine, Western Australia, AJM 8(2):51

# Mogánite SiO2 nH2O

Sylvanier Inlier, Newman area

*Journal of Gemmology V.28(5)*

**Moissanite SiC**

AK1 lamproite

# Monazite-(Ce). Ce(PO4) Simpson describes monazite.

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 27

# Monetite. Ca(PO3OH

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

# Montgomeryite. Ca4MgAl4(PO4)6(OH)4·12H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 27, 28f,

# Moolooite. Cu(C2O4)·nH2O

Mooloo Downs, Murchison, Western Australia, AJM 6(2):118

*Mineralogical Magazine* **50** (1986), 295

# Moraesite. Be2(PO4)(OH)·4H2O

Londonderry, Western Australia, AJM 3(2):98-99f

# Morenosite. Ni(SO4)·7H2O

Mt Keith Ni-deposit, Western Australia

*Mineralogical Magazine* **44** (1981), 345

**Mountkeithite. (Mg1-*x* Fe3+*x* )(SO4)*x* /2(OH)2·*n*H2O (*x* < 0.5, *n* >3*x* /2)**

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):67,68f

Mt Keith Ni-deposit, Western Australia, AJM 6(2):119

*Mineralogical Magazine* **44** (1981), 345

# Mundrabillaite. (NH4)2Ca(PO3OH)2·H2O

Petrogale Cave, near Madura, Eucla, Western Australia, AJM 6(2):119

*Mineralogical Magazine* **47** (1983), 80

# Murdochite. Cu12Pb2O15Cl2.

Whim Creek mine, Western Australia, AJM 4(1):20

# Mushistonite. Cu2+Sn4+(OH)6

Londonderry feldspar pegmatite. Jacobson et al, 2007, p272

# Natanite. Fe2+Sn4+(OH)6

Londonderry feldspar pegmatite. Jacobson et al, 2007, p272

**Natrowalentaite. Fe3+0.5Na0.5(H2O)6][NaAs3+2(Fe3+2.33W6+0.67)(PO4)2O7]** Griffins Find gold deposit, Western Australia, AJM 20(1):7-15, 6f, 11a, 12XRD, 67W

# Népouite. Ni3Si2O5(OH)4

Mount Keith, Wiluna Shire AJM 9(2) 55-71

# Newberyite. Mg(PO3OH)·3H2O

Petrogale Cave, east of Madura

*Mineralogical Magazine* **41** (1977), 33

**Nickel Ni**

# Nickelblödite. Na2Ni(SO4)2·4H2O

Carr Boyd Rocks Ni-mine, Goongarrie, Western Australia, AJM 6(2):119

Durkin mine, Kambalda, Western Australia, AJM 6(2):119

*Mineralogical Magazine* **41** (1977), 37

## Nickeline. NiAs

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):63

# Nioboaeschynite-(Ce) (Ce,Ca)(Nb,Ti)2(O,OH)6

Cummins Range carbonatite

**Noonkanbahite BaKNaTi2Si4O14**

Walgidee Hills kimberlite

# Nullaginite. Ni2(CO3)(OH)2

Otway Ni-deposit, Nullagine, Pilbara, Western Australia, AJM 6(2):119f, 120

# Nyholmite. Cd3Zn2(AsO3OH)2(AsO4)2·4H2O

Barbara mine, Coolgardie, Western Australia, AJM 14(2):59

*Mineralogical Magazine* **73** (2009), 723

# Okenite. Ca10Si18O46·18H2O

Perseverance nickel mine (formerly Agnew deposit), Western Australia, AJM 11(1):25-26f

# Oosterboschite. (Pd,Cu)7Se5

Copper Hill in the East Pilbara Region

*Canadian Mineralogist* ***40*** *(2) 2002*

# Osarizawaite. Pb(Al2Cu2+)(SO4)2(OH)6

Shangri La mine, Kimberley, Western Australia, AJM 16(1):22SEM

# Osbornite. TiN

# Yilmia meteorite Kambalda

# Mineralogy and Petrology of the Yilmia Enstatite Chondrite, Meteoritics 7 (4): p. 429.

# Otavite. Cd(CO3)

Devons Cut, Braeside lead field, Pilbara, Western Australia, AJM 13(2):60SEM

Shangri La mine, Kimberley, Western Australia, AJM 16(1):22-23SEMf

# Otwayite. Ni2(CO3)(OH)2·H2O

Otway Ni-deposit, Nullagine, Pilbara, Western Australia, AJM 6(2):120

# Oxammite. (NH4)2(C2O4)·H2O

Petrogale Cave, east of Madura

*Mineralogical Magazine* **41** (1977), 33

**Palygorskite**

# Paragonite. NaAl2(Si3Al)O10(OH)2

Londonderry feldspar pegmatite. Jacobson et al, 2007, p272

# Paralaurionite PbCl(OH)

Ashburton Downs

# Paraotwayite. Ni(OH)2-x(SO4,CO3)0.5x

Otway Ni-deposit, Nullagine, Pilbara, Western Australia, AJM 6(2):120, 122f

# Paratacamite, Cu3(Cu,Zn)Cl2(OH)6

Londonderry feldspar pegmatite. Jacobson et al, 2007, p272

*Mineralogical Magazine* **14** (1906), 170

# Paratacamite-(Ni). Cu3(Ni,Cu)Cl2(OH)6

Carr Boyd Rocks mine, Western Australia, AJM 17(1):39, 40, 40f, 41, 41XRD, 42, 43, 44

# Parkerite Ni3(Bi,Pb)2S2

*Ferguson KM, 1999*

**Parisite-(Ce) CaCe2(CO3)3F2 and Parisite-(La) CaLa2(CO3)3F2**

Brockman Rare Earth Deposits, Western Australia

*Ref Ramsden A.R., French D.H. and Chalmers D.I. Volcanic-hosted rare-metals deposit at Brockman, Western Australia Mineralogy and geochemistry of the. Niobium Tuff. Mineral. Deposita 28, 1-12 (1993)*

# Pecoraite. Ni3Si2O5(OH)4

Wolf Creek Meteorite – Wolf Creek Crater, Western Australia, AJM 6(2):128

*Science* **165** (1969), 59

# Pentlandite. (Ni,Fe)9S8

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61a, 63f

Mt Keith mine, Western Australia, AJM 7(2):83fW; 11(1):6f

# Perite PbBiO2Cl

Glen Florrie Station

*Mineralogical Magazine*, **40, p.** 537

# Perovskite. CaTiO3

Walgidee Hills, Kimberley, Western Australia

*Mineralogical Magazine* **48** (1984), 263

# Perroudite Ag4Hg5S5(I,Br)2Cl2

Ashburton Downs

# Perryite (Ni,Fe)8(Si,P)3

Tholeiitic intrusive rocks

*American Mineralogist, Volume 99, pages 1911–1921, 2014*

# Phenakite. Be2(SiO4)

Mount Edon pegmatite field. Jacobson et al, 2007, p154

# Philipsbornite PbAl3(AsO4)(AsO3OH)(OH)6

Mount Clement prospects, Wyloo Station

Geological Survey of Western Australia Professional Papers Report 30, 41-63

# Phosphammite. (NH4)2(PO3OH)

Earles Find, Toppin Hill, Western Australia, AJM 6(2):121

*Mineralogical Magazine* **39** (1973), 346

# Phurcalite. Ca2(UO2)3O2(PO4)2·7H2O

Jacobson et al, 2007, xxxiii

# Plattnerite. PbO2

Braeside lead field, Pilbara, Western Australia 13(2):60

# Plumbogummite. PbAl3(PO4)(PO3OH)(OH)6

Nifty copper mine, Western Australia, AJM 8(2):51

# Plumbomicrolite. Discredited by IMA

Yinnietharra pegmatite field. Jacobson et al, 2007, p70

# Plumbopyrochlore. Not mentioned in IMA list

Jacobson et al, 2007, xxxiii

# Pollucite Cs(Si2Al)O6·nH2O

Lepidolite Hill, Nepean, Coolgardie Shire

SinclaIr mine, north of Norseman

# Polycrase-(Y)?. Y(Ti,Nb)2(O,OH)6

Shaw River pegmatite field. Jacobson et al, 2007, p60

**Polydymite. Ni2+Ni3+2S4**

Kanowna, Coolgardie, Western Australia *Mineralogical Magazine* **42** (1978), 278

# Polylithionite KLi2AlSi4O10F2

Wogina and Cattlin pegmatites

# Portlandite Ca(OH)2

Victoria Reservoir Dam

# Potarite. PdHg

Copper Hill in the East Pilbara Region

*Canadian Mineralogist* ***40*** *(2) 2002*

# Potassic fluororichterite. K(NaCa)Mg5Si8O22F2

# Waigidee Hills

# Potassic richterite K(NaCa)Mg5Si8O22(OH)2

West Kimberley district lamproites

**Poubaite PbBi2(Se,Te,S)4**

# Priderite. K(Ti7Fe3+)O16

Kimberley district, Western Australia, AJM 1(2):4

*Mineralogical Magazine* **29** (1951), 496

Walgidee Hills, Kimberley, Western Australia, AJM 6(2):121

**Pseudorutile Fe3+2Ti4+3O9**

**Putnisite. SrCa4Cr3+8(CO3)8(SO4)(OH)16·25H2O**

*Mineralogical Magazine* **78** (2014), 131

# Pumpellyite. Ca2Al3(Si2O7)(SiO4)(OH,O)2·H2O Several varieties recorded in IMA

Mount Edon pegmatite. Jacobson et al, 2007, p158

# Pyrargyrite Ag3SbS3

# Shangri La mine

**Pyroaurite see also Iowaite-pyroaurite series. Mg6Fe3+2(CO3)(OH)16·4H2O**

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):65f, 66

# Rhabdophane-(Ce) Ce(PO4)·H2O Also –(La), -(Nd), (Y)

Mount Weld

*Trans. Inst. Mining Metall.(Sect. B:Applied Earth Sci.) 104, 203-208(1995)*

# Rancieite. (Ca,Mn2+)0.2(Mn4+,Mn3+)O2·0.6H2O

Western Australia Australian Mineralogist 1(48):282-284

**Reevesite. Ni6Fe3+2(CO3)(OH)16·4H2O**

Wolf Creek Meteorite – Wolf Creek Crater, Western Australia, AJM 6(2):128

# Reidite. Zr(SiO4)

Various meteorites

**Retgersite. Ni(SO4)·6H2O**

# Rhabdophane-(Ce) Ce(PO4)·H2O Also –(La), -(Nd), (Y)

Mount Weld

*Trans. Inst. Mining Metall.(Sect. B:Applied Earth Sci.) 104, 203-208(1995)*

# Richterite. Na(NaCa)Mg5Si8O22(OH)2

Walgidee Hills, Kimberley, Western Australia

*Mineralogical Magazine* **48** (1984), 263

# Roaldite. (Fe,Ni)4N

Youndegin Meteorite – Youndegin, Avon, Western Australia, AJM 6(2):128

*Canadian Mineralogist* **28** (1990), 751

**Robertsite. Ca2Mn3+3O2(PO4)3·3H2O**

Wodgina pegmatite. Jacobson et al, 2007, p33

**Rockbridgeite. (Fe2+0.5Fe3+0.5)2Fe3+3(PO4)3(OH)5**

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 29

# Rosasite. CuZn(CO3)(OH)2

Devons Cut, Braeside lead field, Pilbara, Western Australia, AJM 13(2):60-61f

Ragged Hills, Braeside lead field, Pilbara, Western Australia, AJM 13(2):60

Shangri La mine, Kimberley, Western Australia, AJM 16(1):21f, 22,23f

# Rucklidgeite. (Bi,Pb)3Te4

Yuinmery VMS deposit, Yilgarn Craton

# Russellite. Bi2WO6

Poona pegmatite field. Jacobson et al, 2007, p113

*Mineralogical Magazine* **25** (1938), 41

# Rynersonite. CaTa2O6

Jacobson et al, 2007, xxxiv

# Sabugalite. HAl(UO2)4(PO4)4·16H2O

Wodgina pegmatite field. Jacobson et al, 2007, p33

# Saddlebackite. Pb2Bi2Te2S3

Boddington gold mine, Western Australia, AJM 3(2):119-124af;

Boddington gold mine, Western Australia, AJM 6(2):122,123f

# Saleeite. Mg(UO2)2(PO4)2(H2O)10

Jacobson et al, 2007, xxxiv

# Samarskite –(Yb)?. YbNbO4 Two varieties noted in IMA

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Samarskite-(Y). YFe3+Nb2O8

Arthur River pegmatite group. Jacobson et al, 2007, p93

# Samiresite. See uranpyrochlore

Yinnietharra pegmatite field. Jacobson et al, 2007, p72

# Sampleite. NaCaCu5(PO4)4Cl·5H2O

Mooloo Downs, Murchison, Western Australia

*Mineralogical Magazine* **50** (1986), 295

# Sauconite. Na0.3Zn3(Si,Al)4O10(OH)2·4H2O

Teutonic Bore mine Australian Mineralogist 1(40):219-223

# Schreibersite (Fe,Ni)3P

Numerous meteorites

# Shcherbakovite. K2NaTi2O(OH)Si4O12 Now renamed as noonkanbahite

Walgidee Hills, Kimberley, Western Australia

*Mineralogical Magazine* **48** (1984), 263

# Segelerite. CaMgFe3+(PO4)2(OH)·4H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 29, 30f

# Semseyite. Pb9Sb8S21

Sunrise Dam gold mine, Yilgarn Craton

*Mineralogy and Petrology (2007) 91: 249–270*

# Serpierite. Ca(Cu,Zn)4(SO4)2(OH)6·3H2O

Northampton, Western Australia, AJM 18(1):45

# Shandite Ni3Pb2S2

Ottway Ni deposit

# Sicklerite. LiMn2+(PO4)

Wodgina pegmatite field. Jacobson et al, 2007, p31

# Siderotil. Fe(SO4)·5H2O

Teutonic Bore, Western Australia, AJM 2(1):26

# Siegenite CoNi2S4

Kalgoorlie

# Skutterudite CoAs3

Bali Hi, Ashburton

**Sodium pharmacosiderite. KFe3+4(AsO4)3(OH)4·6-7H2O. This is pharmacosiderite**

Marda, Kalgoorlie, Western Australia, AJM 6(2):124

# Spangolite Cu6Al(SO4)(OH)12Cl·3H2O

Carr Boyd Rocks mine AJM 13(1)

# Sperrylite. PtAs2

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):65

# Spionkopite Cu39S28

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):65

# Stellerite. Ca4(Si28Al8)O72·28H2O

Wodgina pegmatite field. Jacobson et al, 2007, p42

# Stercorite. (NH4)Na(PO3OH)·4H2O

Petrogale Cave, east of Madura

*Mineralogical Magazine* **41** (1977), 33

## Stichtite-woodallite series. Mg6Cr2(CO3)(OH)16·4H2O

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):66f, 67

# Stilbite-Na Na7.74K0.72Ca0.26Mg0.17Fe0.07(Si27.2Al8.79)O72(H2O)32.

Maggy Hayes south project

AJM 22(1) in press

# Stilpnomelane (K,Ca,Na)(Fe,Mg,Al)8(Si,Al)12(O,OH)36·nH2O

# Strengite. Fe3+(PO4)·2H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 31

# Stromeyerite. CuAgS

Shangri La mine, Western Australia, AJM 16(1)18

# Stützite Ag5-xTe3 (*x* = 0.24-0.36)

Golden Mile, Kalgoorlie/Boulder

*The Canadian Mineralogist*, **41,** p. 1503-1524.

# Suessite Fe3Si

North Haig, Sleeper Camp

**Synchisite CaCe(CO3)2F – NOT IN IMA. IN Mindat**

Brockman rare earth deposit

*Ref Ramsden A.R., French D.H. and Chalmers D.I. Volcanic-hosted rare-metals deposit at Brockman, Western Australia Mineralogy and geochemistry of the. Niobium Tuff. Mineral. Deposita 28, 1-12 (1993)*

# Syngenite. K2Ca(SO4)2·H2O

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

*Mineralogical Magazine* **41** (1977), 33

# Takovite Ni6Al2(CO3)(OH)16·4H2O

# 132N nickel mine

# Tantite. Ta2O5

Dawn View pegmatite. Jacobson et al, 2007, p306

# Tanteuxenite-(Y). Y(Ta,Nb,Ti)2(O,OH)6. Simpson describes a variety without the (Y)

*Journal of the Royal Society of Western Australia* **14** (1928), 45

# Taranakite K3Al5(PO3OH)6(PO4)2·18H2O

# Super Cave, Cervantes

*DMP Annual Report 1972*

# Tellurantimony Sb2Te3

Sunrise Dam gold mine, Yilgarn Craton

*Mineralogy and Petrology (2007) 91: 249–270*

# Tellurobismuthite. Bi2Te3

Yuinmery VMS deposit, Yilgarn Craton

**Tetra-ferri-annite. KFe2+3(Si3Fe3+)O10(OH)2**

Dales Gorge, Wittenoom, Western Australia, AJM 6(2):125

# Tetraferriphlogopite KMg3(Si3Fe3+)O10(OH)2

Bow Hill lamprophyre dykes

# Thorianite ThO2

Cummins range carbonatite

# Thorite. Th(SiO4)

Shaw River pegmatite field. Jacobson et al, 2007, p51

Mineral Deposita, 1993

# Tiemannite. HgSe

Copper Hill in the East Pilbara Region

*Canadian Mineralogist* ***40*** *(2) 2002*

# Tivanite. TiV3+O3(OH)

Lake View mine, Kalgoorlie, Western Australia, AJM 6(2):125

## Tochilinite-valleriite series. 6(Fe0.9S)·5[(Mg,Fe)(OH)2]

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):65

**Todorokite (Na,Ca,K,Ba,Sr)1-x(Mn,Mg,Al)6O12·3-4H2O**

**Tomichite. V3+4Ti4+3As3+O13(OH)**

Perseverance Mine, Kalgoorlie, Western Australia, AJM 6(2):125

*Mineralogical Magazine* **43** (1979), 469

**Tranquillityite. Fe2+8Ti3Zr2Si3O24**

# Moon rock.  Sills intruding the Eel Creek Formation, northeastern Pilbara Craton

*Geology (2012) 40 (1): 83–86.*

**Trevorite NiFe3+2O4**

**Triplite. Mn2+2(PO4)F**

Moolyella pegmatite field. Jacobson et al, 2007, p62

# Tripuhyite Fe3+Sb5+O4

# Ashburton Downs

# Tsumoite. BiTe

Austin VMS deposit, Yilgarn Craton

# Tucekite. Ni9Sb2S8

Kanowna, Coolgardie, Western Australia, AJM 6(2):126

*Mineralogical Magazine* **42** (1978), 278

# Tungstenite. WS2

Mount Farmer pegmatite. Jacobson et al, 2007, p129

# Turquoise see also Chalcosiderite. CuAl6(PO4)4(OH)8·4H2O

Woodlands, Gascoyne region, Western Australia, AJM 14(1):29-31fSEM

# Ullmannite NiSbS

Wyloo Station, Ashburton Shire

Ferguson, K.M. (1999) Lead, Zinc and Silver Deposits of Western Australia. Geological Survey of Western Australia, Mineral Resources Bulletin 15.

# Umangite. Cu3Se2

Copper Hill in the East Pilbara Region

*Canadian Mineralogist* ***40*** *(2) 2002*

### Unidentified Hg-Ag halides

Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):38

### Unidentified Fe-Pb arsenate

Bali Lo prospect, Ashburton Downs, Western Australia, AJM 13(1):38f

### *Unnamed*

Whim Creek mine, Western Australia, AJM 4(1):26

# Uraninite. UO2

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Uranmicrolite. Not mentioned in the IMA list

Yinnietharra pegmatite. Jacobson et al, 2007, p72

# Uranophane. Ca(UO2)2(SiO3OH)2·5H2O

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Uranophane-beta. Ca(UO2)2(SiO3OH)2·5H2O

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Uranpyrochlore. Not mentioned in the IMA list

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Urea. CO(NH2)2

Lake Rason Cave, Toppin Hill, Western Australia, AJM 6(2):126

*Mineralogical Magazine* **39** (1973), 346

# Uricite. C5H4N4O3

Dingo Donga Cave, Madura, Eucla, Western Australia, AJM 6(2):127

*Mineralogical Magazine* **39** (1974), 889

# Uvarovite. Ca3Cr2(SiO4)3

Yinnietharra pegmatite. Jacobson et al, 2007, p70

# Valleriite 2[(Fe,Cu)S]·1.53[(Mg,Al)(OH)2]

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61a, 66

# Vaesite NiS2

Black Swan mine

# Vallerite 2[(Fe,Cu)S]·1.53[(Mg,Al)(OH)2]

Numerous occurrences throughout WA

# Vauquelinite CuPb2(CrO4)(PO4)(OH)

Whim Creek

## Violarite. FeNi2S4

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):61a, 66

Mt Keith, Western Australia, AJM 11(1):6f

# Volynskite. AgBiTe2

Austin VMS deposit, Yilgarn Craton

# Wagnerite. Mg2(PO4)F

Austin VMS deposit, Yilgarn Craton

# Wardite. NaAl3(PO4)2(OH)4·2H2O

Mount Deverell variscite deposit, Milgun Station, Western Australia, AJM 20(2):19, 33,

Woodlands, Gascoyne region, Western Australia, AJM 14(1):27-36fSEM

# Weddellite. Ca(C2O4)·2H2O

Toppin Hill, near Rason Lake

*Mineralogical Magazine* **41** (1977), 33

# Whewellite. Ca(C2O4)·H2O

Mooloo Downs, Murchison, Western Australia

*Mineralogical Magazine* **50** (1986), 295

# Whitlockite. Ca9Mg(PO3OH)(PO4)6

Murra-el-elvyn Cave, Cocklebiddy, Nullarbor Plain

*Mineralogical Magazine*, **39,** p. 467-469.

*Mineralogical Magazine* **41** (1977), 33

# Widgiemoolthalite. Ni5(CO3)4(OH)2·4-5H2O

132 North Mine, Widgiemooltha, Kambalda, Western Australia, AJM 6(2):126f, 127

# Wodginite. Mn2+Sn4+Ta2O8

Wodgina, Pilbara, Western Australia, AJM 6(2):127

# Woodallite, see also Stichtite-woodallite series. Mg6Cr2(OH)16Cl2·4H2O

MKD5 nickel deposit, Mt Keith, Western Australia, AJM 9(2):67,68f

Mt Keith mine, Western Australia, AJM 7(2):83fW

**Wüstite FeO**

Micrometeorites, within limestones; Pilbara region WA

*Ref. Ancient micrometeorites suggestive of an oxygen-rich Archaean upper atmosphere Andrew G. Tomkins1 ,et al. doi:10.1038/nature17678*

**Yimengite**

**Zinc-melanterite. Fe(SO4)·7H2O. No Zn variety on IMA list** Teutonic Bore, Western Australia, AJM 2(1):26a

# Zinkenite. Pb9Sb22S42

Sunrise Dam gold mine, Yilgarn Craton

*Mineralogy and Petrology (2007) 91: 249–270*

# Zirconolite (Ca,Y)Zr(Ti,Mg,Al)2O7

Numerous occurrences

**Total ~401**