

A CLASSIFIED LIST OF THE MINERAL SPECIES KNOWN TO OCCUR IN TASMANIA.

(BY W. F. PETTERD.)

SYNOPSIS.

I. NATIVE ELEMENTS.

II. SULPHIDES, TELLURIDES, SELENIDES, ARSENIDES, ANTIMONIDES, BISMUTHIDES.

III. COMPOUNDS OF CHLORINE, BROMINE, IODINE.

IV. FLUORINE COMPOUNDS.

V. OXYGEN COMPOUNDS.

I. Oxides, or Binary Oxygen Compounds.

- i. Oxides of Elements of Gold Iron, and Tin Groups
- ii. Oxides of Elements of Arsenic and Sulphur Groups.
- iii. Oxides of Elements of Carbon-Silicon Group.

II. Ternary Oxygen Compounds.

1. Silicates.

A. Anhydrous Silicates.

- i. Bisilicates.
- ii. Unisilicates.
- iii. Subsilicates.

B. Hydrus Silicates.

- i. General Hydrus Silicates.
- ii. Zeolites.
- iii. Margarophyllite Section.

2. Tantalates, Columbates.

3. Phosphates, Arsenates, Antimonates, Nitrates.

A. Phosphates, Arsenates, Antimonates.

- i. Anhydrous.
- ii. Hydrus.

B. Nitrates.

4. Borates.

5. Tungstates, Molybdates, Vanadates.

6. Sulphates, Chromates, Tellurates.

- i. Anhydrous.
- ii. Hydrus.

7. Carbonates.

- i. Anhydrous.
- ii. Hydrus.

8. Oxalates.

VI. HYDROCARBON COMPOUNDS.

I. NATIVE ELEMENTS.

Antimony	Graphite	Osmiridium
Arsenic	Gold	Platinum (?)
Bismuth	Iron	Silver
Copper	Lead	Sulphur
Diamond	Mercury (?)	

II. SULPHIDES, ARSENIDES.

(Tellurides, Selenides, Antimonides, and Bismuthides are not known to occur.)

Sulphides.

Argentite	Greenockite	Pentlandite
Bournonite	Galenite	Pyrites
Bismuthenite	Heazlewoodite	Pyrrhotite
Berthierite	Huascalite	Stromeyerite
Boulangerite	Jamiesonite	Stannite
Bornite	Marcasite	Sternbergite
Chalcopyrite	Molybdite	Sphalerite
Cinnabar (?)	Maratite	Stephanite
Covellite	Millerite	Stibnite
Chalcocite	Plagionite	Tetrahedrite
Dufrenosite	Przibramite	Tennantite

Sulph-Arsenides.

Arsenopyrite
Cobaltine
Glancodite
Proustite

Arsenides.

Leucopyrite
Niccolite
Smaltine

III. COMPOUNDS OF CHLORINE, BROMIDE, AND IODINE.

Atacamite	Embolite	Iodyrite
Cerargyrite	Halite	Matlockite

IV. FLUORINE COMPOUNDS.

Chlorophane	Fluorite	Yttro-cerite
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V. OXYGEN COMPOUNDS.

I. Oxides, or Binary Oxygen Compounds.

i. Oxides of Elements of Gold, Iron, and Tin Groups.

Asbolite	Chromite	Minium
Anatase	Diaspore	Pyrolusite
Beauxite (?)	Franklinite	Psilomelane
Brookite	Göethite	Pleonaste (spinel)
Brucite	Hematite	Periclasite
Cuprite	Limonite	Rutile
Corundum	Massicot	Stilphnosiderite
vars.	Magnetite	Wad
Sapphire	Melaconite	Zincite
Oriental Topaz	Menaccanite	

ii. Oxides of Elements of Arsenic and Sulphur Group.

Arsenolite	Kermesite	Valentinite
Bismite	Molybdine	Wolframite
Cervantite	Senermontite	

iii. Oxides of Elements of Carbon-Silican Group.

Quartz.

A. Vitreous vars

Rock crystal

Smoky.

B. Crypto-crystalline vars.

Basanite, Chalcedony, Cornelian, Prase, Sinter, Chert, Jasper, and others.

C. Other vars.

Common Opal, Resin, Wood and Semi-opal, Hydrophane, Cacholong, Menilite, Hyalite, Geyserite, and Infusorial Earth.

II. Ternary Oxygen Compounds.

1. Silicates.

A. Anhydrous Silicates.

i. Bisilicates.

Arfvedsonite	Enstatite	Pyroxene
Actinolite	Hypersthene	Schiller-spar
Augite	Hornblende	Tremolite
Asbestos	Hiddenbergite	Wollastonite
Beryl		

ii. Unisilicates.

Adularia	Iolite
Axinite	Lepidomelane
Anorthite	Labradorite
Biotite	Lithomarge
Chrysolite (Olivine)	Lepidolite
Epidote	Muscovite
Eulytine	Orthoclase
Garnet	Obsidian
vars.	Oligoclase
Almandite	Porcellanite
Grossularite	Pitchstone
Aplome	Smithsonite
Idocrase	Zircon
Ilvarite	

iii. Subsilicates.

Andalusite	Kyanite	Titanite (Sphene)
Collyrite	Pycnite	Tourmaline
Euclase	Sillimanite (?)	Topaz

B. Hydrous Silicates.

i. General Section of Hydrous Silicates.

Allophane	Chrysocolla
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ii. Zeolite Section.

Chabazite	Natrolite	Scolecite
Laumontite	Phillipsite	Stilbite
Mesolite	Phacolite	Thompsonite

iii. Margarophyllite Section.

Chlorite	Pimelite
Cimolite	Rhodochrome
Fahlunite	Serpentine
Geothite	vars.
Halloysite	Chrysotite
Kaolinite	Marmolite
Kammererite	Picrolite
Miloschite	Picrosmine
Noutronite	Retinalite
Chrome-ochre	Steatite
Pholerite	Sericite
Pyrophyllite	Talc

2. Tantalates and Columbates.
Fergusonite.

3. Phosphates, Arsenates, Antimonates, and Nitrates.

A. Phosphates, Arsenates, Antimonates.

i. Anhydrous.

Alipite	Monazite	Plumbogummite
Apatite	Pharmacosiderite	Scorodite
Mimetite	Pyramorphite	

ii. Hydrous.

Annatergite	Erythrite	Wavellite
Bindheimite	Pitticite	Leucochalcite (?)
Evansite	Vivianite	

B. Nitrates.

(Not known to occur.)

4. Borates.

(Not known to occur.)

5. Tungstates, Molybdates, and Vanadates.

Scheelite	Wolframite
Vanadanite	Wulfenite

6. Sulphates, Chromates, and Tellurates.

i. Anhydrous.

Anglesite	Glauberite	Susannite
Barite	Leadhillite	Vauquelinite
Crocoisite	Melanochroite	

ii. Hydrous.

Alumogen	Goslerite	Melanterite
Copiapite	Gypsum (Selenite)	Morenosite
Epsomite	Halotrichite	

7. Carbonates.

i. Anhydrous.

Ankerite
 Arragonite
 Cromfordite
 Calcite
 Calamine

Cerussite
 Dolomite
 Magnesite
 Plumbicalcite
 Pennite

Rhodochrosite
 Siderite
 Sphaerosiderite
 Strontianite

ii. Hydrous.

Azurite
 Bismutite
 Cyanosite

Dundasite
 Hydromagnesite

Malachite
 Zaratite

8. Oxalates.

(Not known to occur.)

VI. HYDROCARBON COMPOUNDS.

Asphaltum
 Coal
 Lignite

Copalite
 Pelionite
 Retinite

Shale
 Tasmanite

