

Gawler Craton IOCG Potential

Gawler Range - Hiltaba Volcano - Plutonic Association Supergroup (1875-1885 Ma)

- Rhyolite, alkali-calcic A-type granites & GRV
- Venous, alkali-calcic A-type granites & GRV
- Aluminous, moderately fractionated I-type granites
- Aluminous, strongly fractionated I-type granites
- Unsuppressed Hiltaba Association Granitoids
- Unsuppressed Gawler Range Volcanics
- Unsuppressed Gawler Range Intrusions

Selected Palaeoproterozoic basement units

- Wallerawang Group and equivalents (~1740 - 1760 Ma)
- Hiltaba Group and equivalents (~1850 - 2000 Ma)
- Iron Formations (various ages)

IOCG alteration mineral assemblages

- CAM: calcite, chlorite, magnetite, hematite (K-feldspar in Olympic Dam district, albite elsewhere)
- MS: magnetite, hematite
- HSCC: hematite, sericite, chlorite, carbonate
- CAM overlain by HSCC alteration
- HSCC overlain by MS alteration
- HSCC overlain by MS alteration (inner Olympic Dam region inversion)
- HSCC overlain by MS alteration (outer Olympic Dam region inversion)
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- HSCC overlain by MS alteration (outer Olympic Dam region inversion)

IOCG potential

- 1 - high
- 2 - moderate
- 3 - low
- 4 - moderate
- 5 - low
- 6 - low
- 7 - low
- 8 - low
- 9 - low
- 10 - low
- 11 - low
- 12 - low
- 13 - low
- 14 - low
- 15 - low
- 16 - low
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- 99 - low
- 100 - low

Geochronology related to IOCG & Au systems

- Hiltaba: 1875-1885 Ma
- Gawler Range: 1875-1885 Ma
- Wallerawang Group: 1740-1760 Ma
- Hiltaba Group: 1850-2000 Ma
- Iron Formations: various ages

Neodymium isotope compositions

- 0 to +2
- +2 to +4
- +4 to +6
- +6 to +8
- +8 to +10
- +10 to +12
- +12 to +14
- +14 to +16
- +16 to +18
- +18 to +20
- +20 to +22
- +22 to +24
- +24 to +26
- +26 to +28
- +28 to +30
- +30 to +32
- +32 to +34
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- +36 to +38
- +38 to +40
- +40 to +42
- +42 to +44
- +44 to +46
- +46 to +48
- +48 to +50
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- +56 to +58
- +58 to +60
- +60 to +62
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- +68 to +70
- +70 to +72
- +72 to +74
- +74 to +76
- +76 to +78
- +78 to +80
- +80 to +82
- +82 to +84
- +84 to +86
- +86 to +88
- +88 to +90
- +90 to +92
- +92 to +94
- +94 to +96
- +96 to +98
- +98 to +100

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Mineral occurrences

- Selected mineral occurrences, deposits and mines

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