

IRON ORE DEPOSITS OF THE YILGARN CRATON — 2013



SITE TYPE AND STATUS

- Windarling** ☐ Mine – operating and under development
- Moonshine** ☐ Mine – closed or proposed; deposit
- Woodley** ☐ Prospect
- ☐ Exploration target or occurrence

MINERALIZATION STYLES

- ☒ Psilotic and limonitic riverine paleochannel mineralization or Channel Iron Deposits (CID)
- ☒ Stratabound, classic-hosted deposits – supergene enriched
- ☒ Stratabound, classic-hosted deposits – primary magnetite
- ☒ Supergene-enriched hematite-goethite deposits derived from banded iron-formation in granite-greenstone terranes
- ☒ Primary banded iron-formation deposits or their metamorphosed equivalents (magmatite)
- ☒ Orthomagmatic layered mafic intrusives targeted for both iron (magnetite) and V-Ti (limonite)

- ☒ Tectonic boundary – Yilgarn Craton
- ☒ Tectonic boundary – Yilgarn Craton, concealed
- ☒ Tectonic boundary – other
- ☒ Port, operating
- ☒ Port, proposed
- ☒ Railway, operating
- ☒ Railway, proposed
- ☒ Gas pipeline, operating
- ☒ Gas pipeline, proposed
- ☒ Slurry pipeline (magnetite concentrate), proposed
- ☒ Coastline
- ☒ FNA 7618: area within which radio-frequency emissions from electronic and electrical equipment must be minimized or comply with Commonwealth stipulations

DATA DIRECTORY

Theme	Date Currency	Organization
Iron ore sites (IMEDS)	Jul 2013	Geological Survey of Western Australia, Department of Mines and Petroleum
Murchison Radio Astronomy Exemption Area	Apr 2009	Department of Mines and Petroleum
Gas pipeline	Jul 2013	Department of Mines and Petroleum
Topography	2009	Landgate
Bathymetry	Mar 1998	Department of Transport

*DMP data can be viewed interactively via GeoVIEW WA www.dmp.wa.gov.au/geoview and related datasets can be downloaded from the GSWA Data and Software Centre www.dmp.wa.gov.au/datacentre

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Compiled by R.W. Cooper 2013

Geology and tectonic boundaries based on:
(1) Cassidy, K.F., Chapman, D.C., Hooper, B., Bailey, M.E., Brown, S.A., Bennett, R.G., Greenwell, P.B. and Taylor, M. 2006. A revised geological framework for the Yilgarn Craton, Western Australia. Geological Survey of Western Australia, Record 2006/8. 8p.
(2) Type, M. and Hooper, B. 2006. Tectonic units of Western Australia. 1:500 000 – Preliminary version. Geological Survey of Western Australia, digital data type.
(3) Type, M. and Hooper, B. 2006. Tectonic units of Western Australia. 1:500 000. Geological Survey of Western Australia, digital data type.
Information on mines, deposits, prospects, and other occurrences was extracted from the DMP Mines and Mineral Occurrences (MMO) database, revised July 2013. www.dmp.wa.gov.au/mines
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Information Centre
Department of Mines and Petroleum
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Government of Western Australia
Department of Mines and Petroleum

Geological Survey of
Western Australia
RICK ROBERTSON
EXECUTIVE DIRECTOR

SCALE 1:1 500 000
0 20 40 60 80 100 120 140 160 180 200
Kilometres

ALBERS EQUAL AREA PROJECTION WITH CENTRAL MERIDIAN 121° AND STANDARD PARALLELS 17°30' AND 31°30'
HORIZONTAL DATUM: GEOCENTRIC DATUM OF AUSTRALIA 1994 (GDA94)

GDA

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