



## AUSTRALIAN OPERATING MINES 2012

SCALE 1: 10 000 000

0 250 500 kilometres

LAMBERT CONFORMAL CONIC PROJECTION  
Central Meridian: 134°E Standard Parallels: 18°S, 36°S  
Geocentric Datum of Australia

This map shows the location of mines operating at the end of 2012, developing mines and mineral deposits in Australia. Developing mines are deposits where mine site development has commenced or where all approvals for mining have been received by the end of 2012. Mineral deposits highlight areas of known mineralisation with reported significant JORC compliant Measured and Indicated Resources that are not currently being mined or developed. Mineral deposits of platinum-group elements (PGE) are those with a reported significant resource. Closed mines or mines not operating at the end of 2012 are not displayed.

Mines and mineral deposits are shown as small symbols coloured by commodity type. The mine and deposit information is superimposed on a generalised surface geology map of Australia. The coloured areas represent different rock types and ages (see legend, below map) cropping out at the surface of the earth. The greyscale background image on which the geology is superimposed represents the aeromagnetic response (0.5 vertical derivative of total magnetic intensity) of rocks at surface and at depth. In areas of younger basins and regolith cover (grey-pale yellow or pale green areas) the aeromagnetics shows the older geology continuing under this cover. In some areas these buried rocks are also prospective for undiscovered mineral deposits.

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It is recommended that this map be referred to as: Senior, A., and Skirrow, R. G., 2013. *Australian Operating Mines Map* (13th Edition), Scale: 1:10 000 000, Geoscience Australia, Canberra.

Further information can also be found on the Internet at:  
<http://www.ga.gov.au/minerals/projects/current-projects/exploration-promotion.html>

Additional information on operating mines, developing mines or mineral deposits on this map is available from the Australian Mines Atlas website: <http://www.australianminesatlas.gov.au/>

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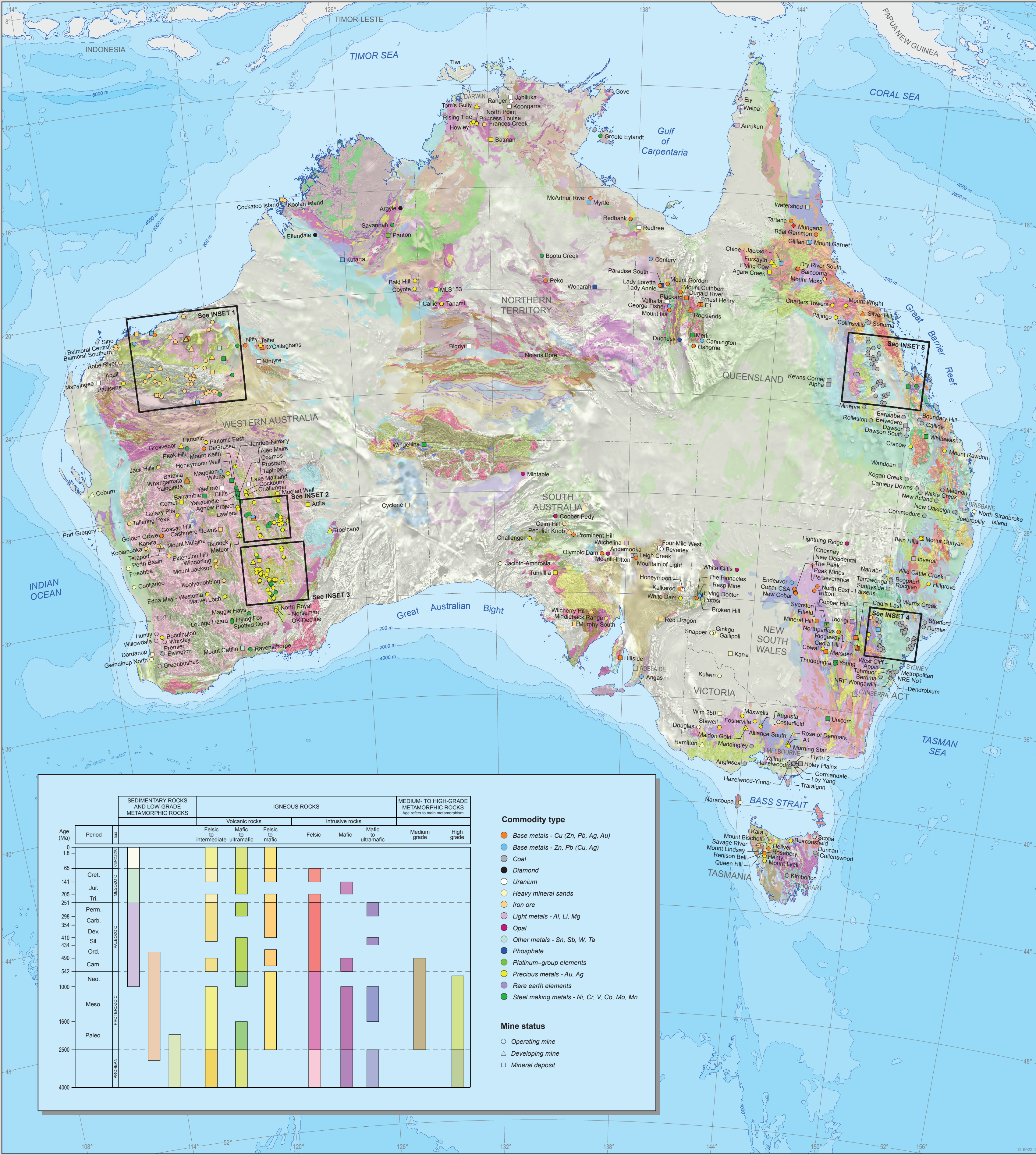
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Copies of this map may be downloaded from the Geoscience Australia internet site at:  
[https://www.ga.gov.au/products/servlet/controller?event=GEOCAT\\_DETAIL&catno=75192](https://www.ga.gov.au/products/servlet/controller?event=GEOCAT_DETAIL&catno=75192)  
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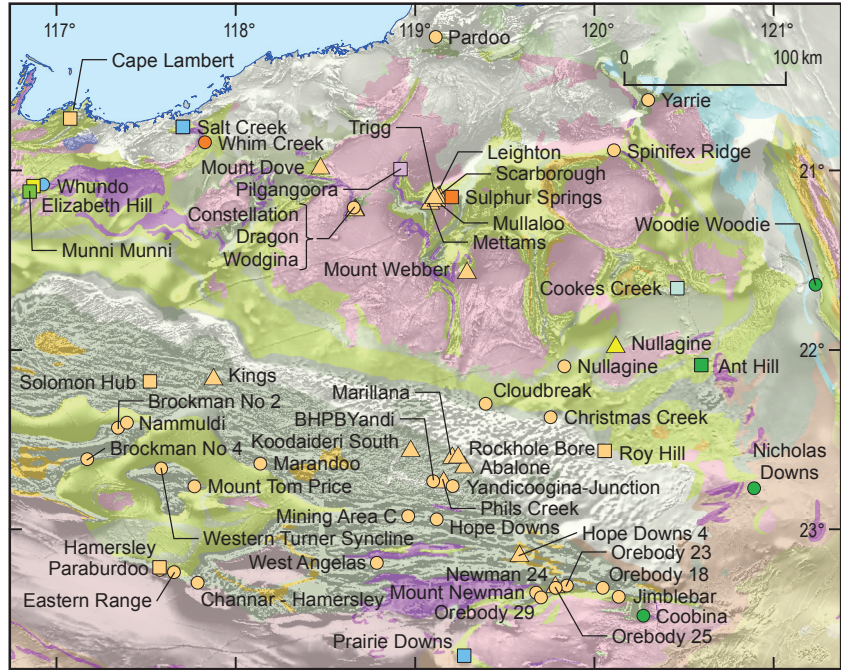
|             |            | SEDIMENTARY ROCKS<br>AND LOW-GRADE<br>METAMORPHIC ROCKS |                     | IGNEOUS ROCKS   |                 |       | MEDIUM- TO HIGH-GRADE<br>METAMORPHIC ROCKS |            |
|-------------|------------|---|---------------------|-----------------|-----------------|-------|--|------------|
|             |            |   |                     | Volcanic rocks  | Intrusive rocks |       | Medium grade                               | High grade |
|             |            | Felsic to intermediate                                  | Mafic to ultramafic | Felsic to mafic | Felsic          | Mafic | Mafic to ultramafic                        |            |
| Age (Ma)    | Period     |   |                     |                 |                 |       |  |            |
| 0 - 65      | Quaternary |   |                     |                 |                 |       |  |            |
| 65 - 141    | Cret.      |   |                     |                 |                 |       |  |            |
| 141 - 205   | Jur.       |   |                     |                 |                 |       |  |            |
| 205 - 251   | Tri.       |   |                     |                 |                 |       |  |            |
| 251 - 298   | Perm.      |   |                     |                 |                 |       |  |            |
| 298 - 354   | Carb.      |   |                     |                 |                 |       |  |            |
| 354 - 410   | Dev.       |   |                     |                 |                 |       |  |            |
| 410 - 434   | Sil.       |   |                     |                 |                 |       |  |            |
| 434 - 490   | Ord.       |   |                     |                 |                 |       |  |            |
| 490 - 542   | Cam.       |   |                     |                 |                 |       |  |            |
| 542 - 1000  | Neo.       |   |                     |                 |                 |       |  |            |
| 1000 - 1600 | Meso.      |   |                     |                 |                 |       |  |            |
| 1600 - 2500 | Paleo.     |   |                     |                 |                 |       |  |            |
| 2500 - 4000 | Archean    |   |                     |                 |                 |       |  |            |

### Commodity type

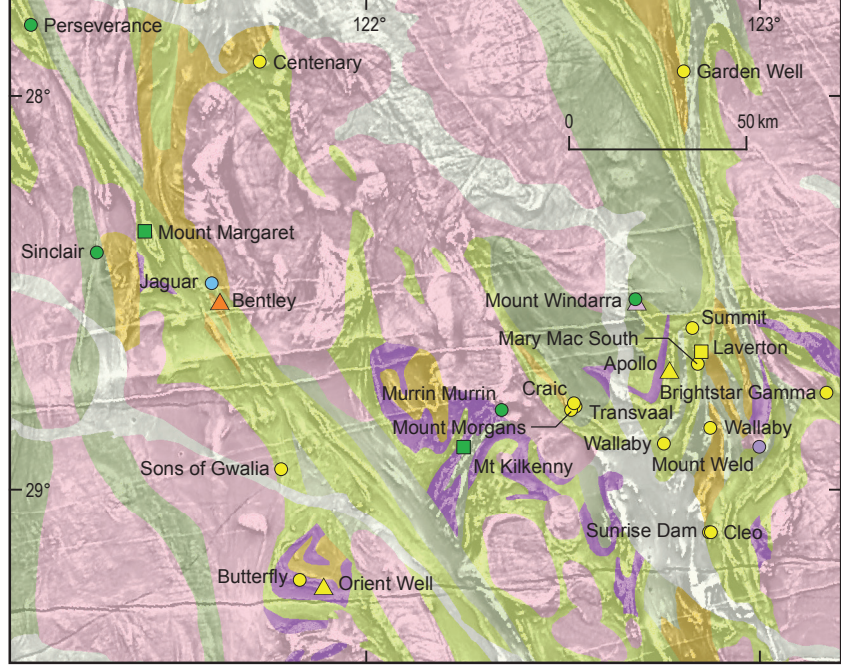
- Base metals - Cu (Zn, Pb, Ag, Au)
- Base metals - Zn, Pb (Cu, Ag)
- Coal
- Diamond
- Uranium
- Heavy mineral sands
- Iron ore
- Light metals - Al, Li, Mg
- Opal
- Other metals - Sn, Sb, W, Ta
- Phosphate
- Platinum-group elements
- Precious metals - Au, Ag
- Rare earth elements
- Steel making metals - Ni, Cr, V, Co, Mo, Mn

### Mine status

- Operating mine
- Developing mine
- Mineral deposit



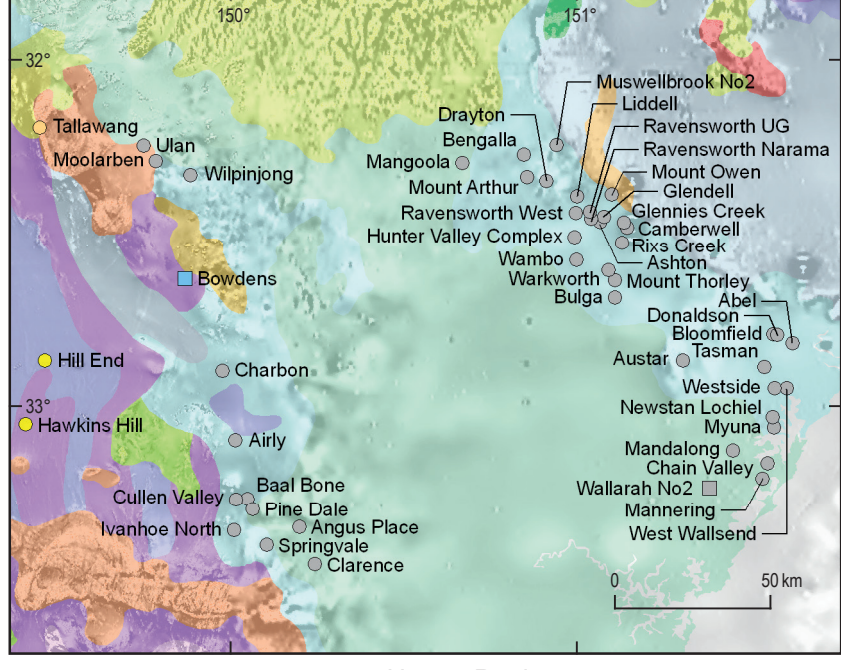
INSET 1: Pilbara Region



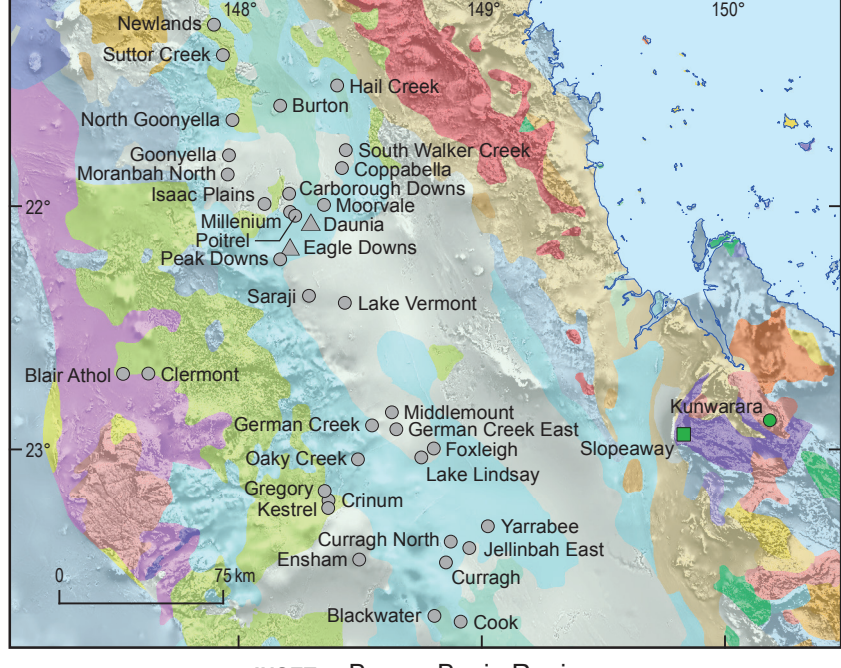
INSET 2: Northeastern Goldfields



INSET 3: Eastern Goldfields



INSET 4: Hunter Region



INSET 5: Bowen Basin Region