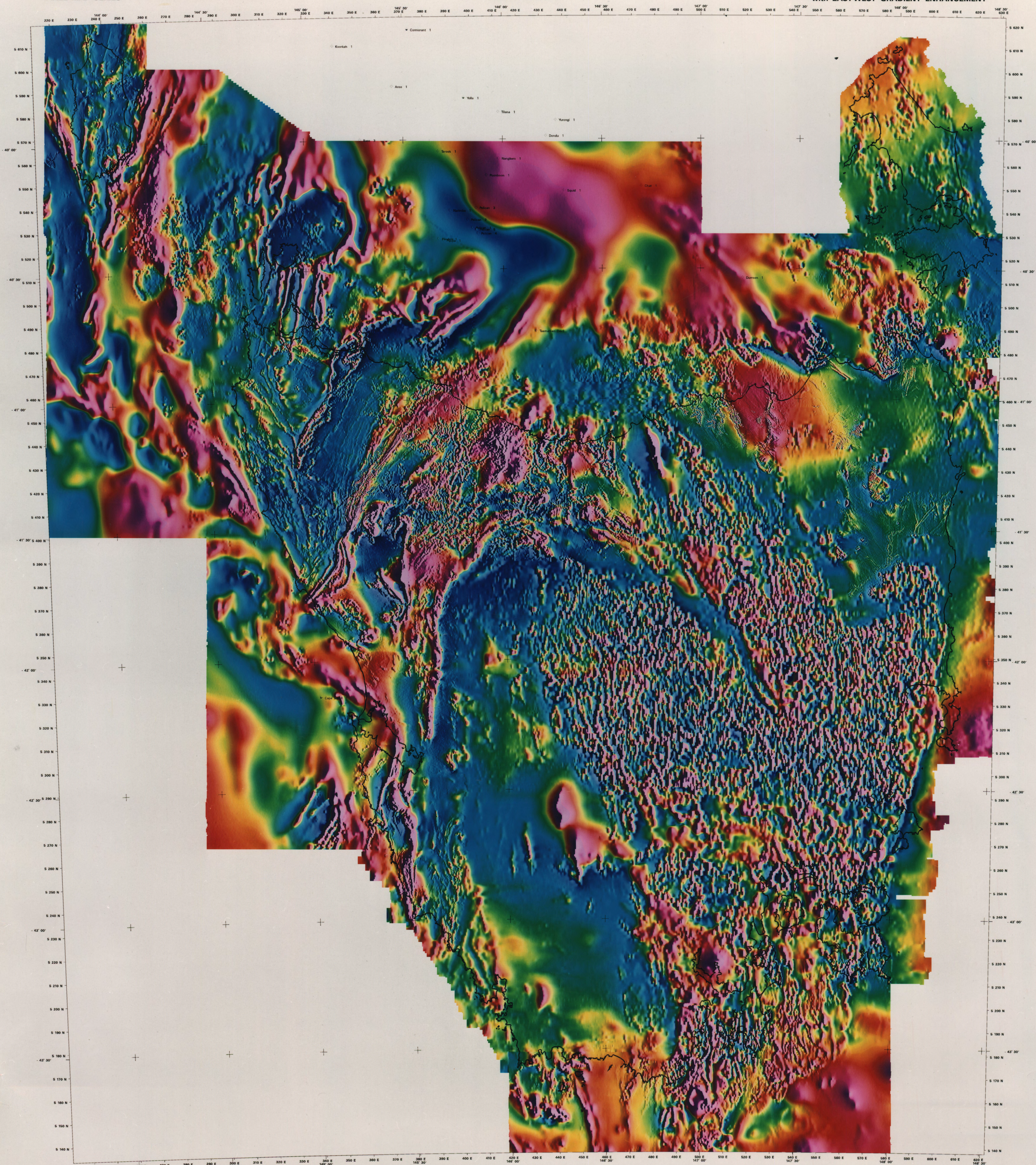


AUSTRALIA 1:500 000 AEROMAGNETIC ANOMALY PIXEL MAP SERIES

TASMANIA

TOTAL MAGNETIC INTENSITY with EAST-WEST GRADIENT ENHANCEMENT



Data Specifications

This map was compiled from various Total Magnetic Intensity airborne surveys, flown between 1981 and 1984, with line spacing varying between 120 m and 1500 m (see source diagram). The data from individual surveys are available from the Geophysical Mapping Section of AGSO or Tasmania Development and Resources. The composite grid data are available from the Geophysical Mapping Section of AGSO.

The digital point-located data for the individual surveys were gridded using minimum curvature. The final grid was compiled by minimising differences across overlapping sections of adjoining surveys. The final grid was generated with a cell size of 100 m.

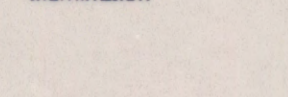
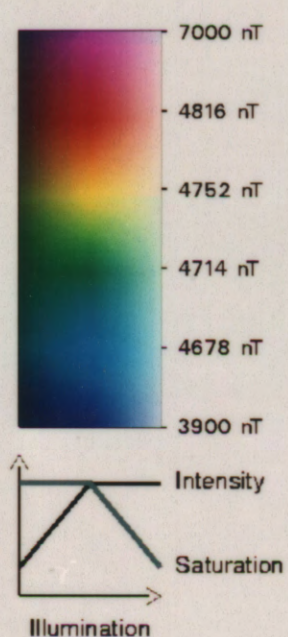
Pixel colours were chosen from the natural palette (magenta high, blue low) using histogram equalization. Gradient enhancement was achieved by modulating colour intensity and saturation (Milligan *et al.*, 1992), using information derived from an east-west gradient applied to the initial composite grid.

AGSO recommends that this publication be referred to as:

Mackey, T.E., Milligan, P.R. & Richardson, R.G., 1995. Total magnetic intensity with east-west gradient enhancement colour pixel-image map of Tasmania, scale 1:500 000, Australian Geological Survey Organisation.

Grid compilation (Interp): T.E. Mackey & P.R. Milligan, AGSO. Image processing and map annotation (ER Mapper and ARC/INFO): T.E. Mackey, AGSO.

Reference: Milligan, P.R., Morse, M.P. & Rajagopalan, S., 1992. Pixel map preparation using the HSV colour model. *Exploration Geophysics*, 23, 219-224.



TOTAL MAGNETIC INTENSITY with EAST-WEST GRADIENT ENHANCEMENT

SCALE 1 : 500 000

Grid ticks indicate 10 000 metre intervals on the Universal Transverse Mercator Grid, Zone 58, Australian National Spheroid.

The airborne geophysical data used for this image were acquired by the Australian Geological Survey Organisation (AGSO), Department of Primary Industries and Energy and Tasmania Development and Resources (TDR), Industry Safety and Mines Division (ISMD). The information is published by AGSO as part of the policy of the Commonwealth Government to assist in resource development and environmental management.

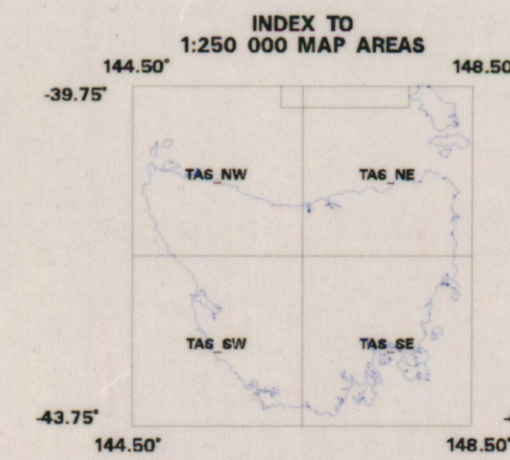
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Source Diagram

- West Coast, 1981, by Geosystems Pty Ltd for TDR. East-west flight lines, 500 m apart.
- Offshore, 1984, by Tella Airborne Geoscience Pty Ltd for AGSO. North-south flight lines, 500 m apart.
- Devonport, 1985, by Geometrics Int. Corp. for TDR. East-west flight lines, 500 m apart.
- ISMD NETSOLD Project, 1985-1984. East-west flight lines, 120 - 500 m apart.
- Flinders Is., 1984, by AGSO. Northeast-southwest flight lines, 1500 m apart.
- Marguerite Riv., 1985, by Geometrics Int. Corp. for TDR. East-west flight lines, 500 m apart.
- Northwest Tasmania, 1984, by AGSO. East-west flight lines, 500 m apart.
- Tasmania Regional, 1985, by AGSO. East-west flight lines, 1000 m apart.
- Arthur Lineament, 1983, by Geosystems Pty Ltd for TDR. East-west flight lines, 200 m apart.

- Offshore exploration well (no show)
- Offshore exploration well (gas show)
- Offshore exploration well (oil and gas show)



TASMANIA AGSO 22-1/SPECIAL/16

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Copies of this map may be obtained from the Sales Centre, Australian Geological Survey Organisation, GPO Box 376, Canberra City, ACT, 2601.

