

Airborne Geophysical Survey and Compilation by



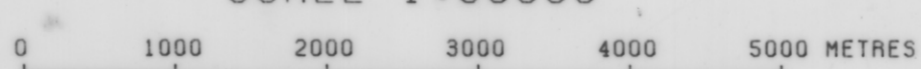
for

DEPARTMENT OF MINES TASMANIA

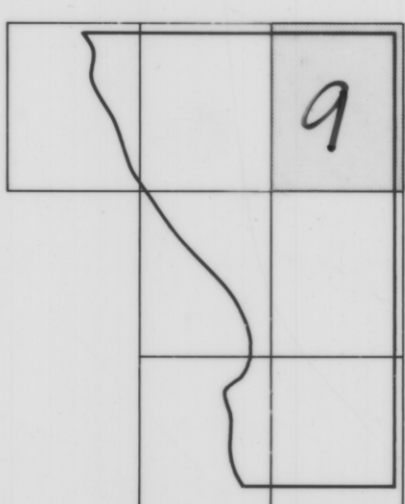
WEST COAST AREA TASMANIA

CONTOURS OF RESIDUAL TOTAL MAGNETIC INTENSITY

SCALE 1:50000



SURVEY LOCATION



SHEET INDEX

The data presented is the residual magnetic intensity, after subtracting the International Geomagnetic Reference Field from the observed Total Magnetic Intensity. The data was corrected for diurnal drift using a base station monitor at QUEENSTOWN Airfield. Latitude 42.077 S Longitude 145.529 E Altitude 259 Metres. The sensor height was 3 metres. The adopted value for this location was 62964 nT. Final detailed levelling of the data was performed using tie-line crossover analysis. A simple 3 point filter was applied to the data, which was then gridded and contoured using a 125m by 125m mesh cell.

**EQUIPMENT SPECIFICATIONS**  
 Cessna 441SE Aircraft  
 SONOTEK 10551 SYSTEM  
 0.1 nT MAGNETOMETER  
 256 CHANNEL SPECTROMETER  
 24 Litre Nal(Tl) DETECTOR  
 KING RANGI RADAR ALTIMETER  
 16mm Ground Tracking Camera  
 Industry Standard 3 track  
 32 RPM Magnetic Tapes  
 8 Channel Analogue Recorder  
 3 Channel Analogue Recorder  
 for Magnetometer

The nominal flight line separation was 500 metres, and the nominal track bearing was 0 degrees. The observed mean sample interval was 0.8 seconds. The mean sensor height was 135 metres, using a towed configuration. The magnetometer accuracy is 0.1 nT, and the resolution is 0.1 nT.

— SURVEY BOUNDARY

CONTOUR INTERVAL 5 nTesla

PROJECT NUMBER 81544 SURVEYED MAY 1981