

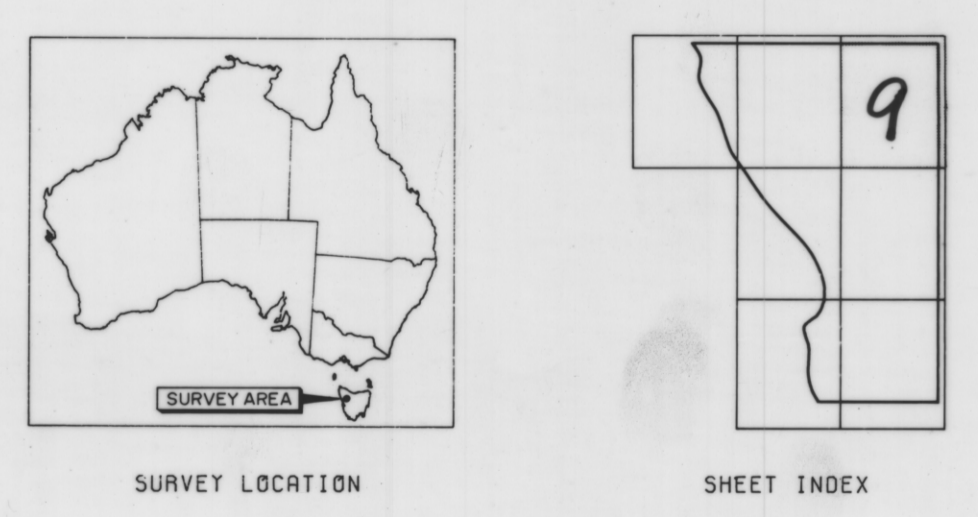
5 cm



Airborne Geophysical Survey and Compilation by



for
 DEPARTMENT OF MINES TASMANIA
 WEST COAST AREA TASMANIA
 CONTOURS OF RESIDUAL TOTAL MAGNETIC INTENSITY



SCALE 1:63,360
 0 1000 2000 3000 4000 5000 METRES

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. The sensor height was 3 metres. The adopted value for this location was 52854 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
 Caspina H185E Aircraft
 SODITEK 16551 SYSTEM
 0.1 m MAGNETOMETER
 256 CHANNEL SPECTROMETER
 24 Line Mod (11) DETECTOR
 RING RABID RADAR ALTIMETER
 ISAW Ground Tracing Camera
 Industry Standard 8 track
 32 RPM Magnetic Tape
 8 Channel Analogue Recorder
 3 Channel Analogue Recorder
 for Magnetometer

The nominal flight line separation was 500 metres, and the nominal tie-line bearing was 0 degrees. The observed mean sample interval in the flight direction was 0. metres, achieved with a nominal aircraft speed of 180 knots, and a reading interval of 0.8 seconds. The mean sensor height was 135 metres, using a fused bird configuration. The magnetometer accuracy is 1.0 nT, and the resolution is 0.1 nT.

SURVEY BOUNDARY
 CONTACT INTERVAL 5 metres
 PROJECT NUMBER 81544 SURVEYED MAY 1981