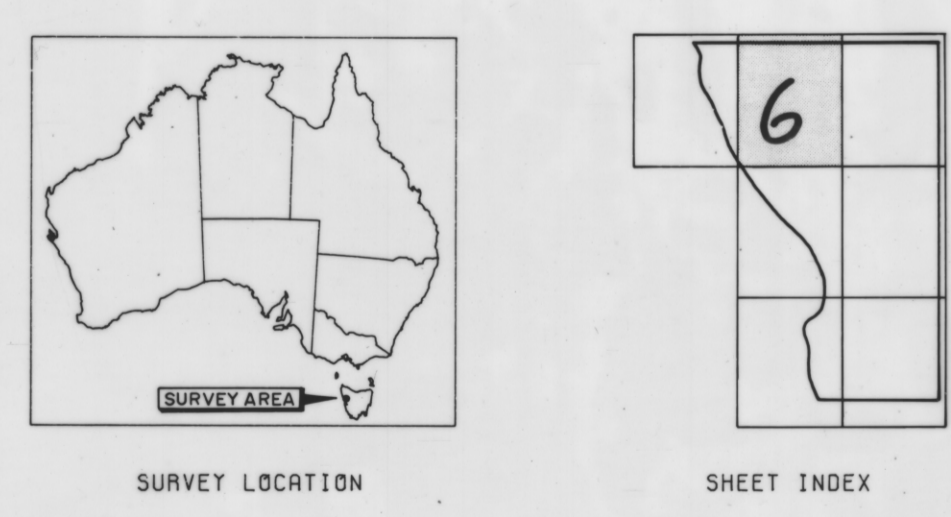


5 cm



Airborne Geophysical Survey and Compilation by **GEOEX** PTY LTD

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 62654 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 441Q2 Aircraft
SONOTEC 10551 SYSTEM
0.1 nT MAGNETOMETER
256 CHANNEL SPECTROMETER
24 Line Mod (1) DETECTOR
RING RADAR ALTIMETER
16mm Ground Tracking Camera
Industry Standard 8 track
32 Rfm Magneto 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 100 knots, and a reading interval of 0.8 seconds. The mean sensor height was 135 metres, using a tased bird configuration. The magnetometer accuracy is 1.0 nT, and the resolution 0.1 nT.

SURVEY BOUNDARY
CONTOUR INTERVAL 5 nT
PROJECT NUMBER 81544 SURVEYED MAY 1981