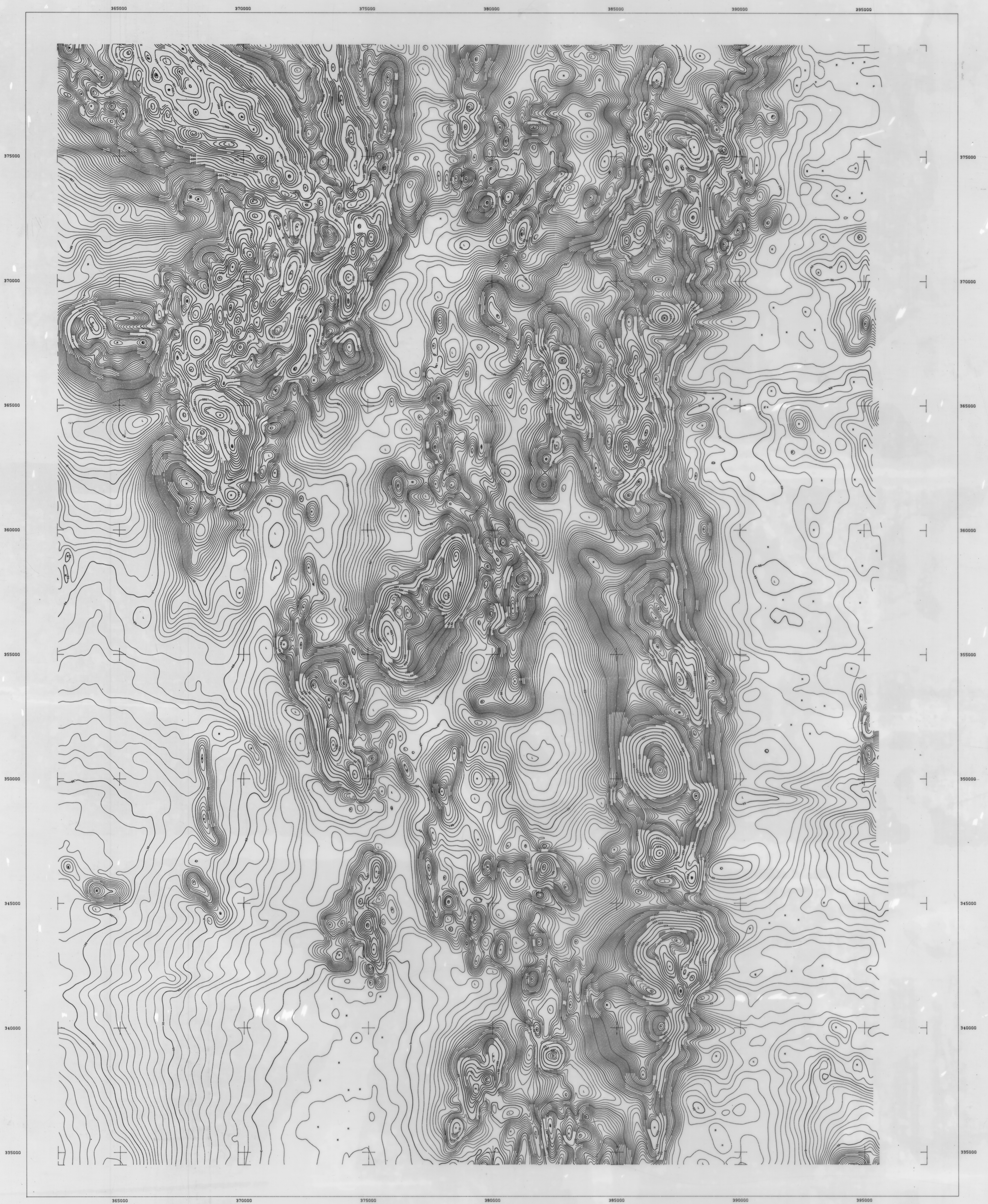


5 cm



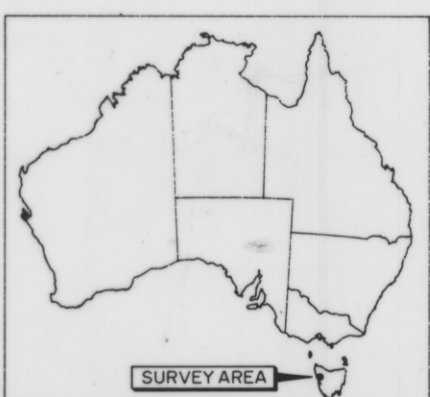
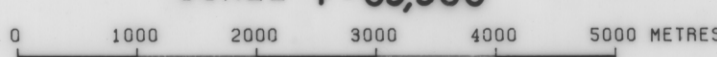
Airborne Geophysical Survey and Compilation by



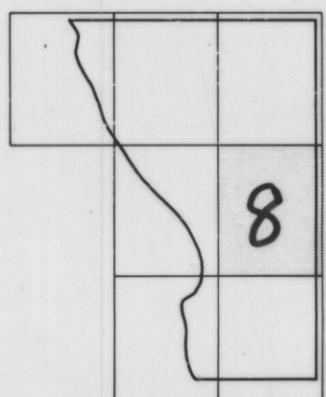
for  
DEPARTMENT OF MINES TASMANIA  
WEST COAST AREA TASMANIA

CONTOURS OF RESIDUAL TOTAL MAGNETIC INTENSITY

SCALE 1:63,360



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 Elevation 259 Metres. The sensor height was 3 metres. The adopted value for this location was 62864 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 441B Aircraft  
SOMTEK 16331 SYSTEM  
0.1 nT MAGNETOMETER  
256 CHANNEL SPECTROMETER  
24 Line Magnetometer  
RING KARLO RADAR ALTIMETER  
18mm Ground Tracing Camera  
Industry Standard 9 track  
32 RFLM 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 100 knots, and a reading interval of 0.5 seconds. The mean sensor height was 135 metres, using a fixed bird configuration. The magnetometer accuracy is 1.0 nT, and the resolution 0.1 nT.

┌ SURVEY BOUNDARY

PROJECT INTERVAL 5 nTesla  
PROJECT NUMBER 81544 SURVEYED MAY 1981