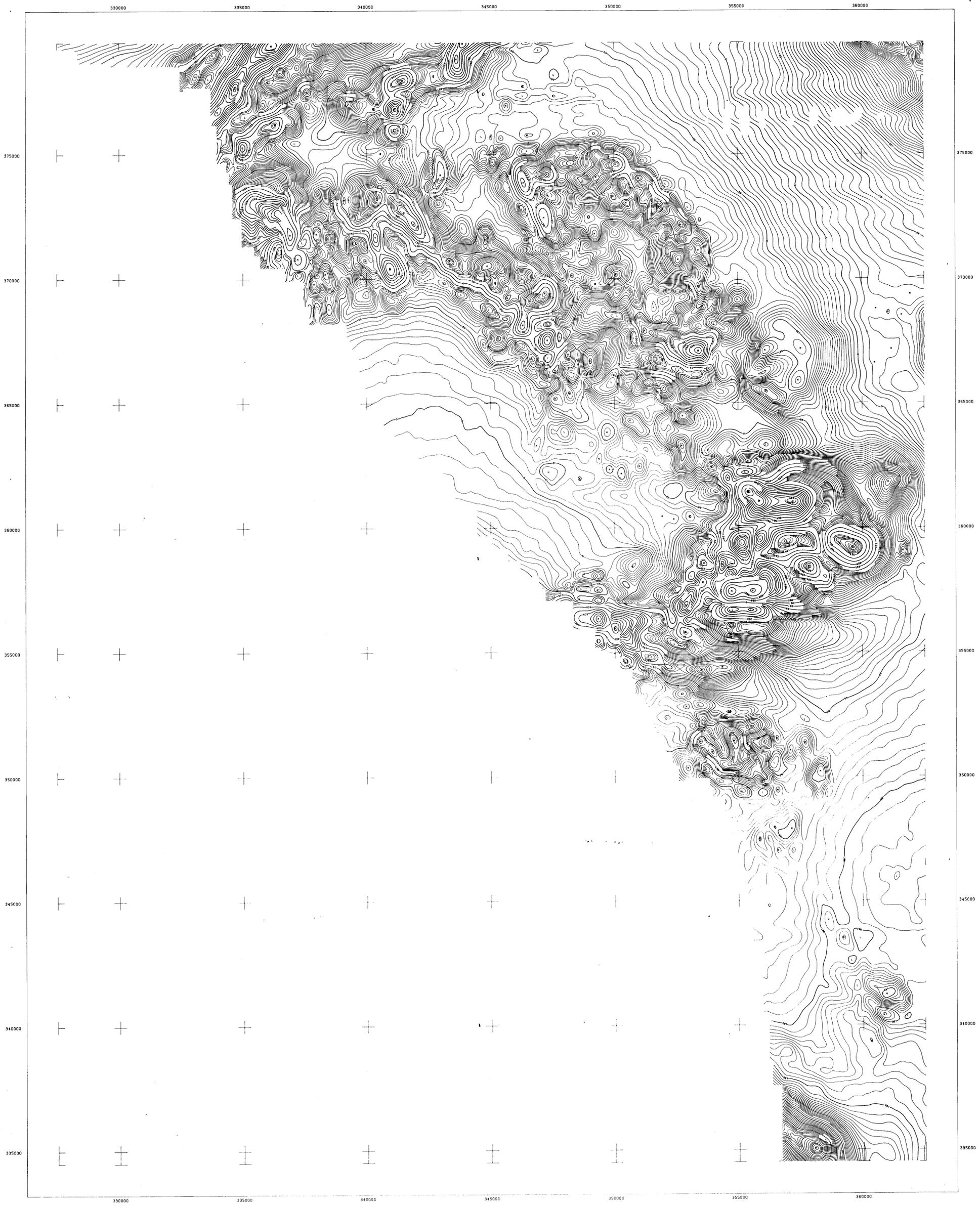


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GEOPHYSICS.
CONTOURS OF RESIDUAL
TOTAL MAGNETIC INTENSITY.

SHEET 4
W. COAST TAS.
360,000 E 395,000 N

4



Airborne Geophysical Survey and Compilation by

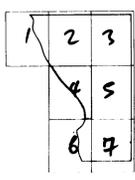


for
DEPARTMENT OF MINES TASMANIA
WEST COAST AREA TASMANIA

CONTOURS OF RESIDUAL TOTAL MAGNETIC INTENSITY



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 258 Metres). The sensor height was 3 metres. The adopted value for this location was 42584 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
 Casima RB35B Aircraft SONITEK 10551 SYSTEM
 0.1 nT MAGNETOMETER
 256 CHANNEL SPECTROMETER
 24 Line No (11) DETECTOR
 KING RADIO RANGE ALTIMETER
 16mm Ground Tracking Camera
 Industry Standard 3 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 100 knots, and a reading interval of 0.8 seconds. The mean sensor height was 135 metres, using a towed bird configuration. The magnetometer accuracy is 1.0 nT, and the resolution 0.1 nT.

CONTOUR INTERVAL 5 nT±0.5
 PARALLEL NUMBER B1544 SURVEYED MAY 1981