1:50.000

GEOPHYSICS
CONTOURS OF RESIDUAL
TOTAL MAGNETIC INTENSITY

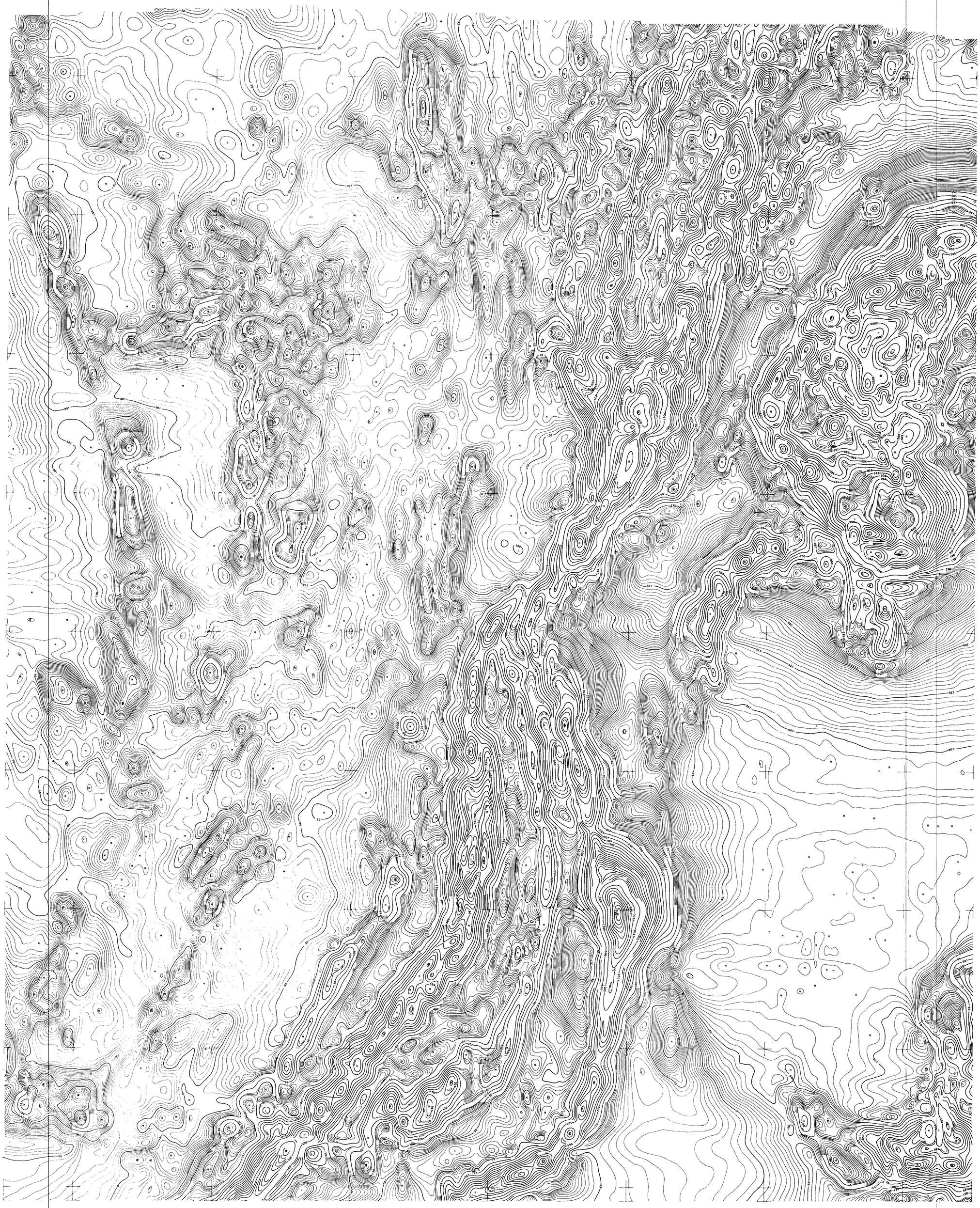
SHEET 2
W. COAST TAS.
360.000E 420000N

2

5 cm

330000 335000 340000 345000 350000 355000 360000

420000 415000 410000 405000 400000 395000 390000 385000 380000



Airborne Geophysical Survey and Compilation by GEOEX PTY LTD

for

DEPARTMENT OF MINES TASMANIA

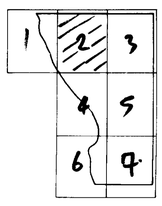
WEST COAST AREA TASMANIA

CONTOURS OF RESIDUAL TOTAL MAGNETIC INTENSITY

SCALE 1:50000

0 1000 2000 3000 4000 5000 METRES

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 62684 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.

SURVEY BOUNDARY

CONTOUR INTERVAL 5 nTesla

PROJECT NUMBER 81544 SURVEYED MAY 1981

EQUIPMENT SPECIFICATIONS
Cessna A185E Aircraft
SONOTEK IGSSI SYSTEM
0.1 nT MAGNETOMETER
256 CHANNEL SPECTROMETER
24 Litre NaI(Tl) DETECTOR
KING KRA10 RADAR ALTIMETER
16mm Ground Tracking Camera
Industry Standard 9 track
32 BPmm 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.

WEST6 SCALE 50000