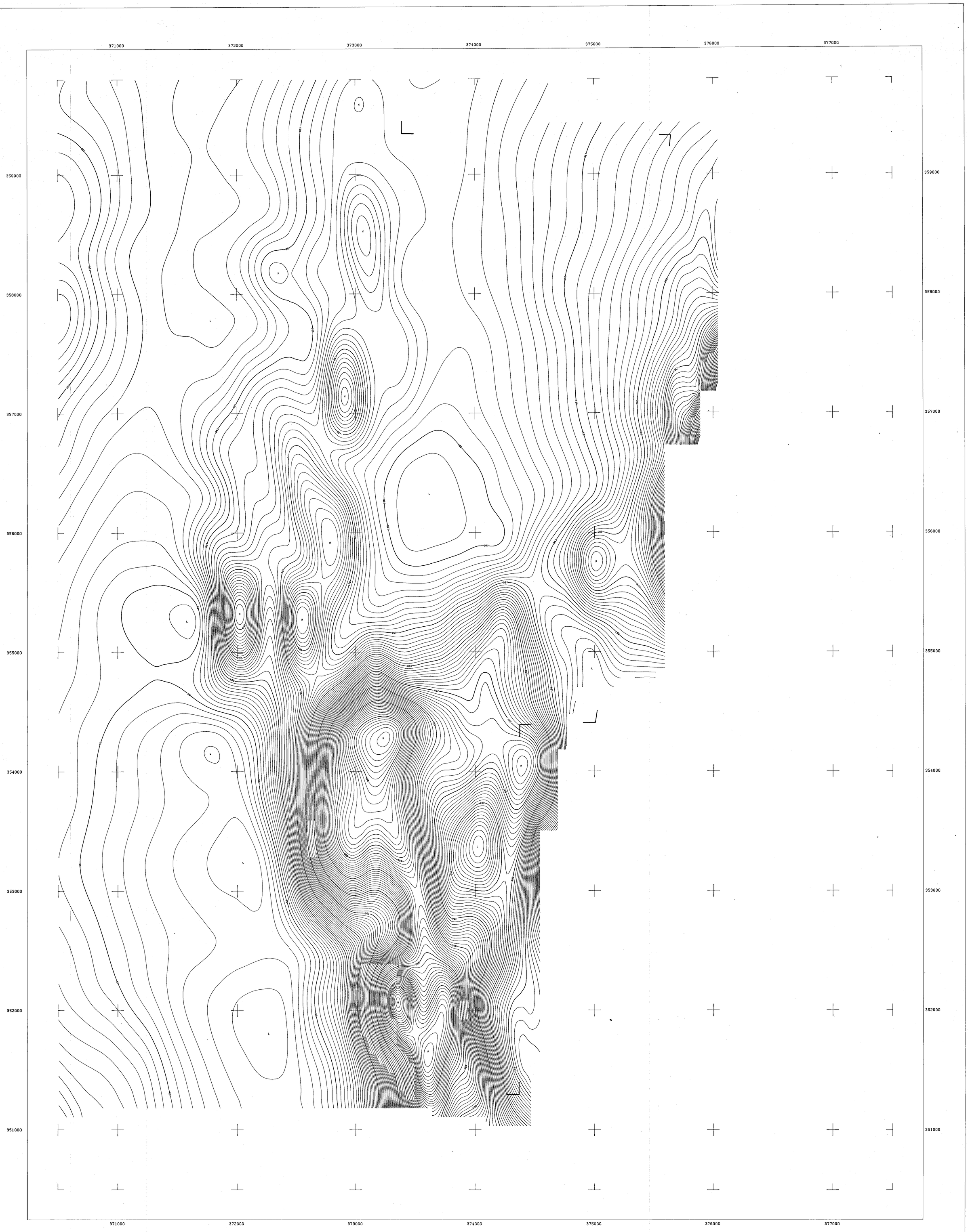
619042J

TCR 83-1928
CSR-Dundas Area

INFILL AEROMAGNETICS



Airborne Geophysical Survey and Compilation by GEOEX PTY LTD

for

C. S. R. LIMITED

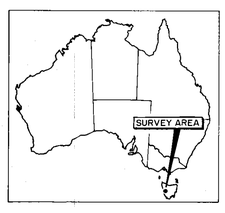
DUNDAS AREA TASMANIA

CONTOURS OF RESIDUAL TOTAL MAGNETIC INTENSITY

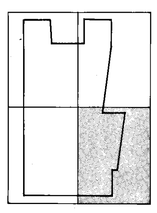
SCALE 1:10000

0 200 400 600 800 1000 METRES

5 cm



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 62888 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 75m by 75m mesh cell.

SURVEY BOUNDARY

CONTOUR INTERVAL 5 nTesla

PROJECT NUMBER 82713 SURVEYED FEBRUARY 1982

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 250 metres, and the nominal tie-line bearing was 0 degrees. The observed mean sample interval in the flight direction was 41 metres, achieved with a nominal aircraft speed of 100 Knots, and a reading interval of 0.8 seconds. The mean sensor height was 150 metres, using a towed bird configuration. The magnetometer accuracy is 1.0 nT, and the resolution 0.1 nT.