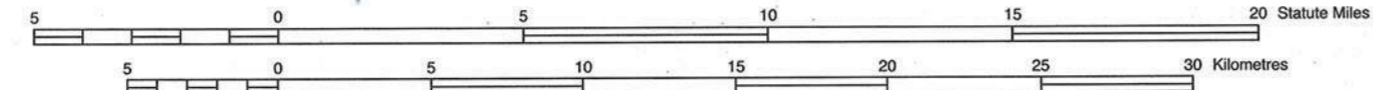


ANTARCTIC GEOMAGNETIC 1:250 000 MAP SERIES
TOTAL MAGNETIC ANOMALY MAP OF NORTHERN VICTORIA LAND BETWEEN CENTRAL
RENNICK GLACIER AND EVANS NÈVÉ

GITARA V
GERMAN-ITALIAN AEROMAGNETIC RESEARCH IN ANTARCTICA
V, 1996-1997
E. Bozzo & D. Damaske COORD.

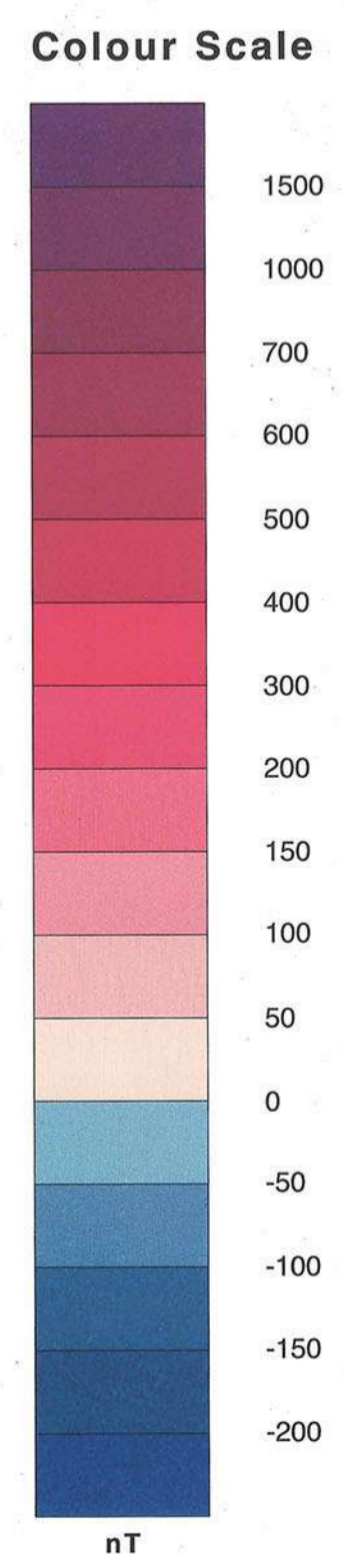
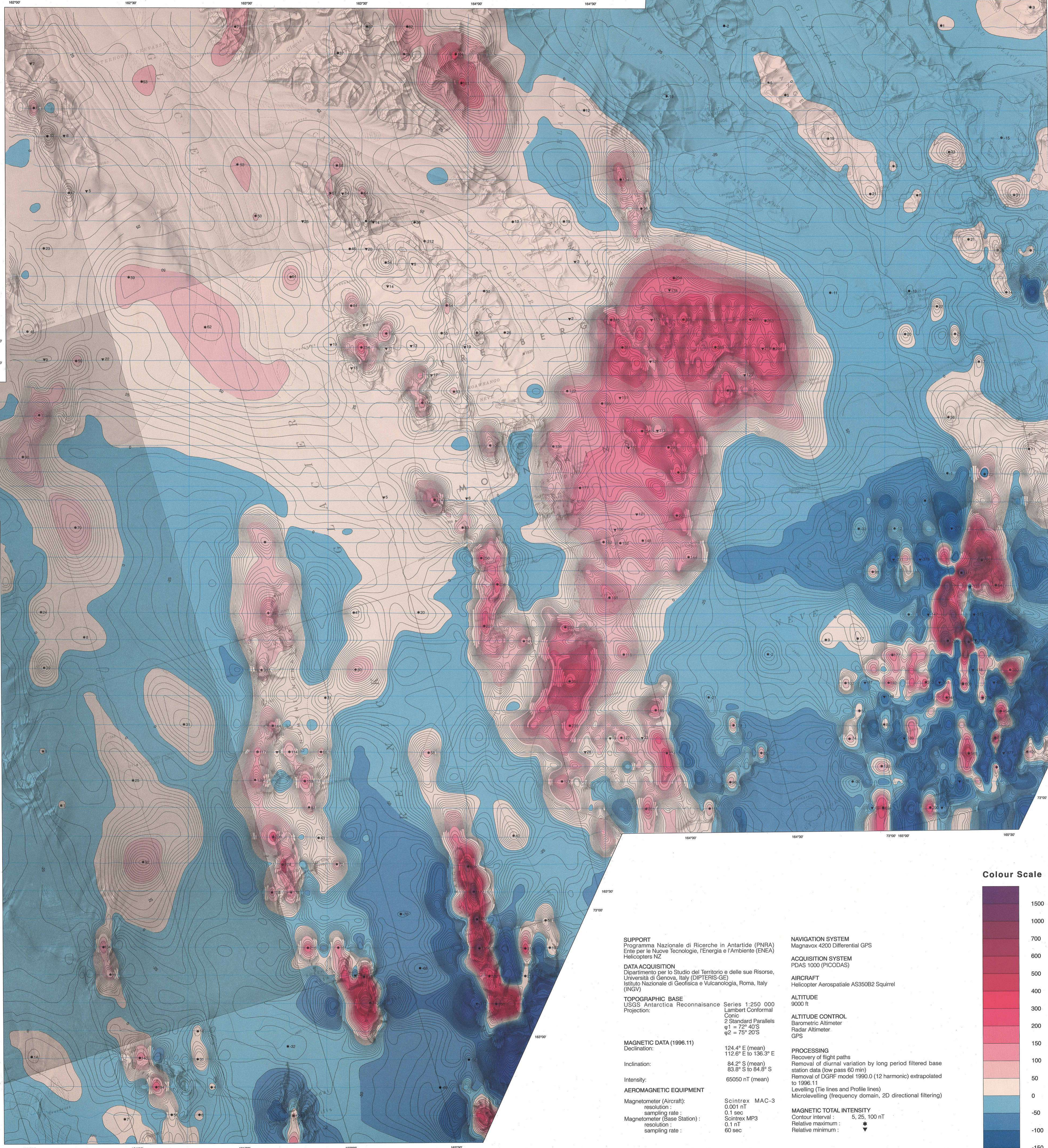
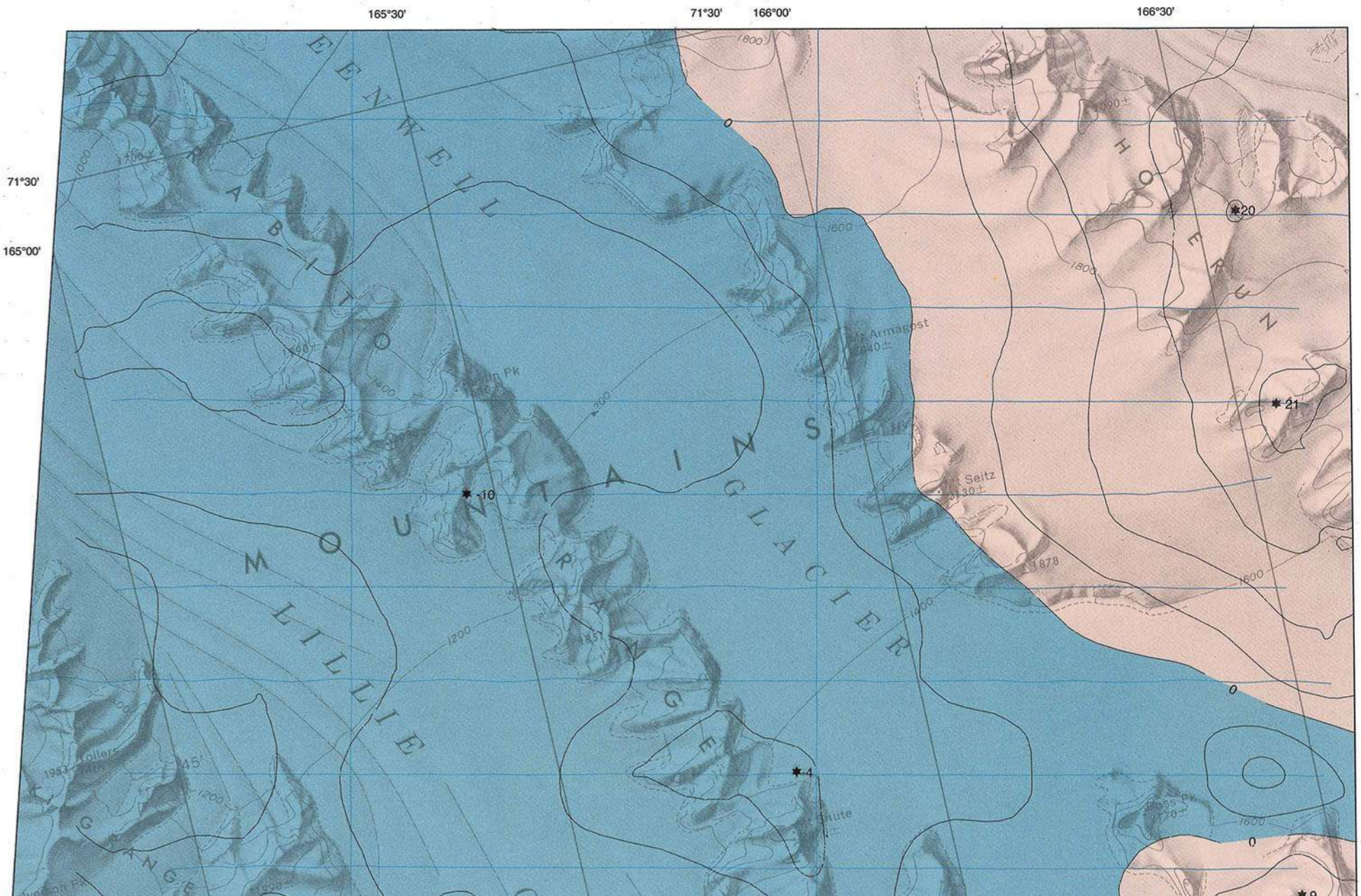
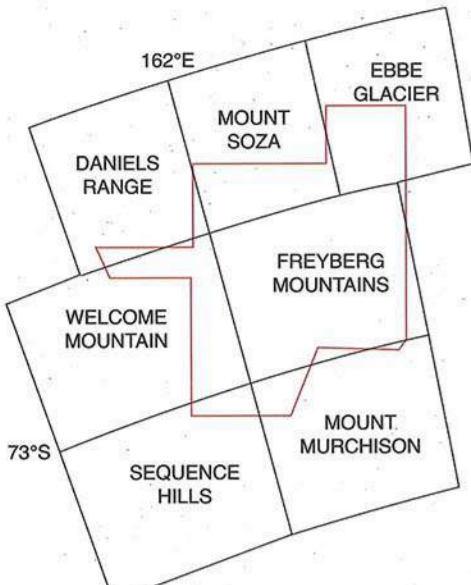
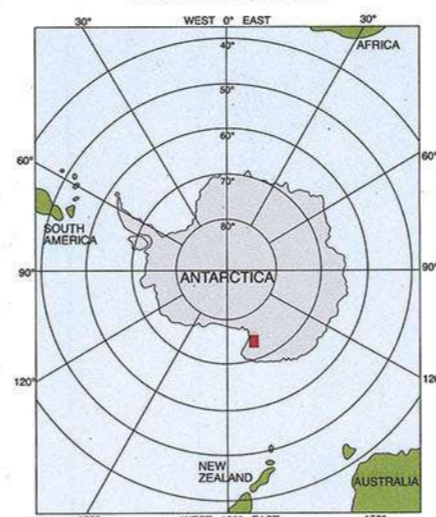
GITARA GROUP:
Bozzo E.1, Caneva G.1, Chiappini M.2, Damaske D.3, Ferraccioli F.1, Gambetta M.1
COMPILED BY:
Ferraccioli F. & Gambetta M.

SCALE 1:250 000



Lambert Conformal Conic Projection - Standard Parallels 72°40' and 79°20' - Contour Interval 200 Meters - Datum: sea level

LOCATION DIAGRAM



SUPPORT
Programma Nazionale di Ricerche in Antartide (PNRA)
Ente per le Nuove Tecnologie, l'Energia e l'Ambiente (ENEA)
Helicopters NZ

DATA ACQUISITION
Dipartimento per lo Studio del Territorio e delle sue Risorse,
Università di Genova, Italy (DIPTERIS-GE)
Istituto Nazionale di Geofisica e Vulcanologia, Roma, Italy
(INGV)

TOPOGRAPHIC BASE
USGS Antarctic Reconnaissance Series 1:250 000
Lambert Conformal Conic
2 Standard Parallels
 $\phi_1 = 72^\circ 40'S$
 $\phi_2 = 75^\circ 20'S$

MAGNETIC DATA (1996.11)
Declination: 124.4° E (mean)
112.6° E to 136.3° E
Inclination: 84.2° S (mean)
83.8° S to 84.8° S
Intensity: 65050 nT (mean)

AEROMAGNETIC EQUIPMENT
Magnetometer (Aircraft): Scintrex MAC-3
resolution: 0.001 nT
sampling rate: 0.1 sec
Magnetometer (Base Station): Scintrex MP3
resolution: 0.1 nT
sampling rate: 60 sec

NAVIGATION SYSTEM
Magnavox 4200 Differential GPS

ACQUISITION SYSTEM
PDAS 1000 (PICODAS)

AIRCRAFT
Helicopter Aerospatiale AS350B2 Squirrel

ALTITUDE
9000 ft

ALTITUDE CONTROL
Barometric Altimeter
Radar Altimeter
GPS

PROCESSING
Recovery of flight paths
Removal of diurnal variation by long period filtered base station data (low pass 60 min)
Removal of DGRF model 1990.0 (12 harmonic) extrapolated to 1996.11
Levelling (Tie lines and Profile lines)
Microlevelling (frequency domain, 2D directional filtering)

MAGNETIC TOTAL INTENSITY
Contour interval: 5, 25, 100 nT
Relative maximum: ▲
Relative minimum: ▼