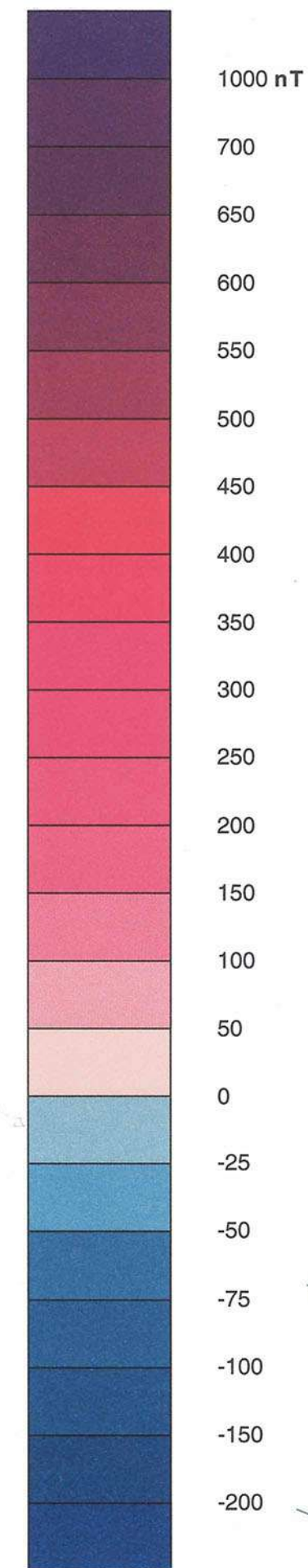


**Colour Scale**



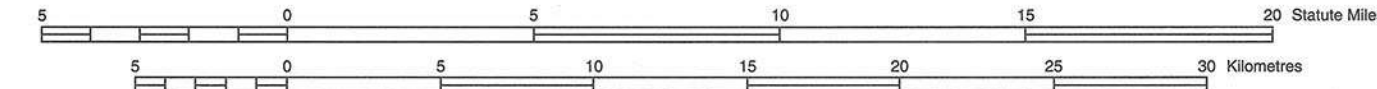
Ministero dell' Università e della Ricerca Scientifica e Tecnologica  
Programma Nazionale di Ricerca in Antartide

**ANTARCTIC GEOMAGNETIC 1:250 000 MAP SERIES  
TOTAL MAGNETIC ANOMALY MAP OF VICTORIA LAND  
(Central-Southern part)**

GITARA  
GERMAN-ITALIAN AEROMAGNETIC RESEARCH IN ANTARCTICA  
E. BOGGI & B. INVERNIZZI Coord.

GIARA GROUP  
Buzio E., Caneva G., Chiappini M.F., Colla A., Demastè D.V., Ferraccioli F., Gambetta M., Maloni A., Mosler H.D.  
Giardina F., Ferraccioli M., Gambetta M.

SCALE 1:250 000



Lambert Conformal Conic Projection - Standard Parallels 72°42' and 73°20' - Contour Interval 200 Meters - Datum: sea level

**Sheet B**

**SUPPORT**  
Progetto Nazionale di Ricerche in Antartide  
Ente per le nuove tecnologie, l'Energia e l'Ambiente  
Bundesanstalt für Geowissenschaften und Rohstoffe  
Helicopters New Zealand, Ltd  
Helicopter Resources

**DATA ACQUISITION**  
Dipartimento Scienze Terra (Sez. Geofisica) DISTER-GE  
Bundesanstalt für Geowissenschaften und Rohstoffe BGR  
Istituto Nazionale Geofisica, Roma ING

**TOPOGRAPHIC BASE**  
USGS Antarctica Reconnaissance Series 1:250,000  
Projection: LAMBERT Conformal Conic  
2 Standard Parallels  
 $\phi_1 = 72^\circ 40'S$   $\phi_2 = 75^\circ 20'S$

**MAGNETIC DATA (1993.1)**  
Declination:  $149^\circ 63' E$  (mean)  
 $137^\circ 22' E$  to  $161^\circ 46' E$   
Inclination:  $83^\circ 12' S$  (mean)  
 $82^\circ 11' S$  to  $84^\circ 04' S$   
Intensity:  $64487 nT$  (mean)

**AEROMAGNETIC EQUIPMENT**  
Magnetometers (Aircraft): Sonotek, Scintrex MAC-3  
resolution: 0.001 nT  
sampling rate: 0.1 sec  
Magnetometers (Base Station): Geometrics  
G856a, Scintrex MP3  
resolution: 0.1 nT  
sampling rate: 60 sec

**NAVIGATION SYSTEMS**  
Trident IV (Thomson CSF)  
Trident IV & GPS (Magellan)  
Magnavox 4200 Differential GPS

**ACQUISITION SYSTEMS**  
PC Laptop  
PDAS 1000 (Picodas)

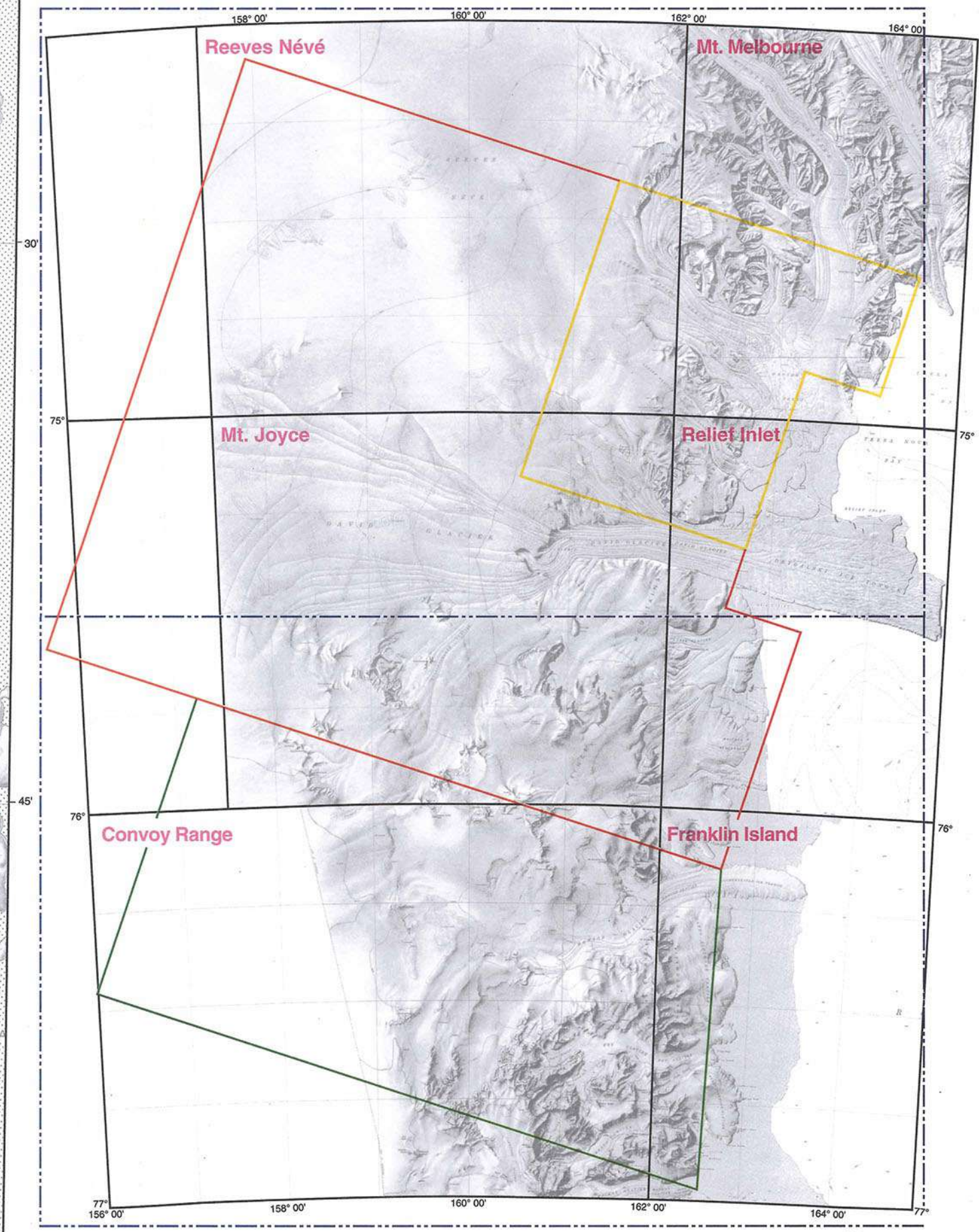
**AIRCRAFT**  
Helicopter Aerospatiale AS350B2 Squirrel

**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 IGRF model 1990.0 (10 harmonic) extrapolated (8 harmonic) to 1992.1 (GITARA), 1993.1 (GITARA II), 1994.1 (GITARA III)  
Levelling (Tie lines and Profile lines)  
Microlevelling (frequency domain, 2D directional filtering)  
Merging individual surveys

**MAGNETIC TOTAL INTENSITY**  
Contour interval: 5, 25, 100 nT  
Relative maximum:  $\blacklozenge$   
Relative Minimum:  $\blacktriangledown$



Boundary of GITARA I (1991/92) ——— Northern Sheet  
Boundary of GITARA II (1992/93) ——— Southern Sheet  
Boundary of GITARA III (1993/94) ———