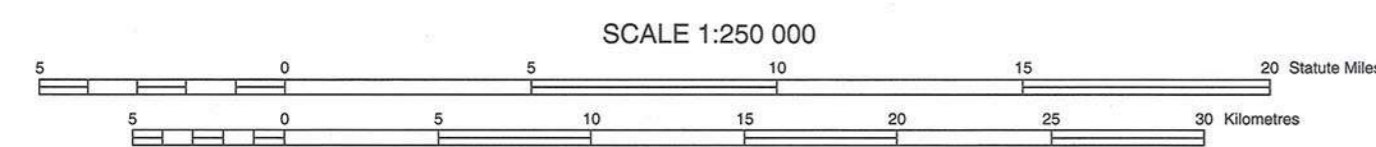


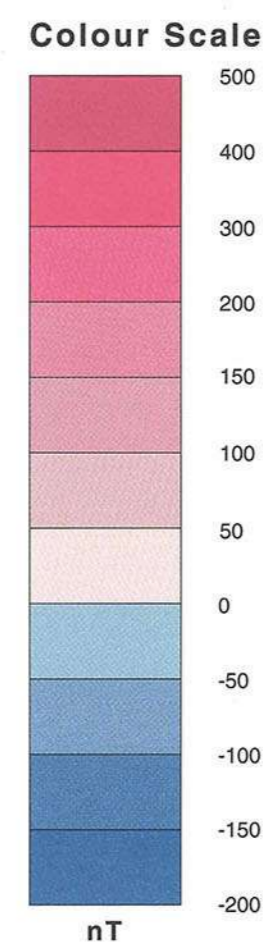
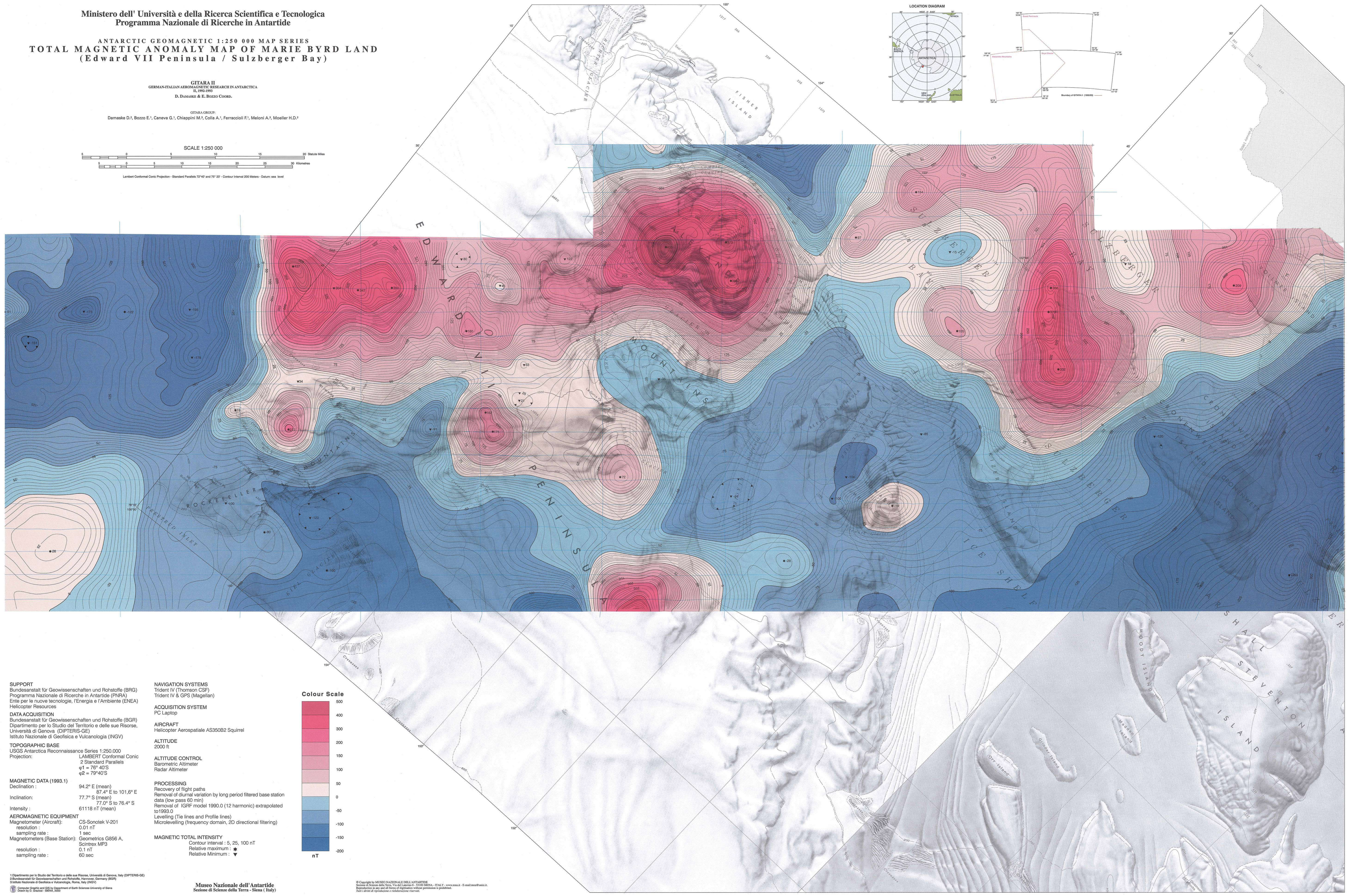
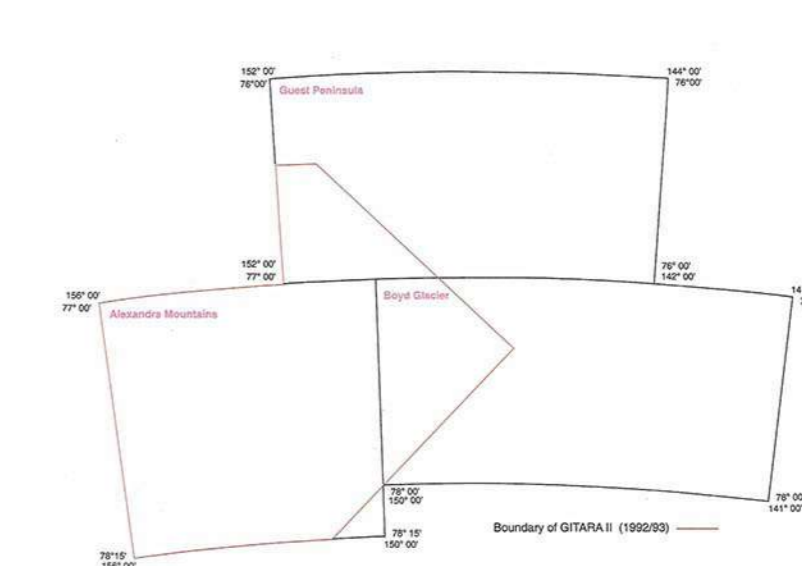
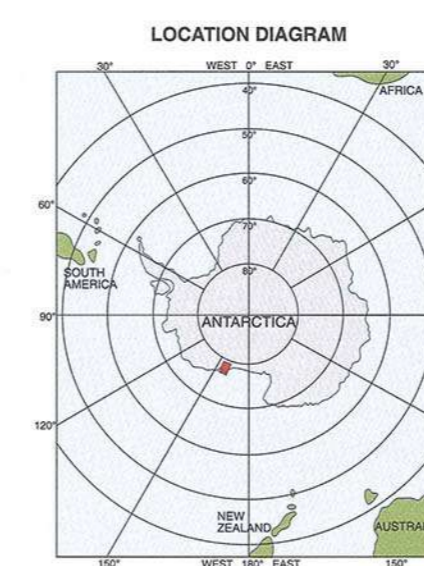
ANTARCTIC GEOMAGNETIC 1:250 000 MAP SERIES  
TOTAL MAGNETIC ANOMALY MAP OF MARIE BYRD LAND  
(Edward VII Peninsula / Sulzberger Bay)

GITARA II  
GERMAN-ITALIAN AEROMAGNETIC RESEARCH IN ANTARCTICA  
11. 1992-1993  
D. DAMASKE & E. BOZZO COORD.

GITARA GROUP:  
Damaske D., Bozzo E., Caneva G., Chiappini M., Colla A., Ferraccioli F., Meloni A., Moeller H.D.



Lambert Conformal Conic Projection - Standard Parallels 72°40' and 70°20' - Contour Interval 200 Meters - Datum: sea level



**SUPPORT**  
Bundesanstalt für Geowissenschaften und Rohstoffe (BGR)  
Programma Nazionale di Ricerche in Antartide (PNRA)  
Ente per le nuove tecnologie, l'Energia e l'Ambiente (ENEA)  
Helicopter Resources

**DATA ACQUISITION**  
Bundesanstalt für Geowissenschaften und Rohstoffe (BGR)  
Dipartimento per lo Studio del Territorio e delle sue Risorse,  
Università di Genova (DIPTERIS-GE)  
Istituto Nazionale di Geofisica e Vulcanologia (INGV)

**TOPOGRAPHIC BASE**  
USGS Antarctica Reconnaissance Series 1:250,000  
Projection: LAMBERT Conformal Conic  
2 Standard Parallels  
φ1 = 76° 40'S  
φ2 = 79° 40'S

**MAGNETIC DATA (1993.1)**  
Declination : 94.2° E (mean)  
87.4° E to 101.6° E  
Inclination : 77.7° S (mean)  
77.0° S to 76.4° S  
Intensity : 61118 nT (mean)

**AEROMAGNETIC EQUIPMENT**  
Magnetometer (Aircraft): CS-Sonotek V-201  
resolution : 0.01 nT  
sampling rate : 1 sec  
Magnetometers (Base Station): Geometrics G856 A,  
Schintrex MP3  
resolution : 0.1 nT  
sampling rate : 60 sec

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

**ACQUISITION SYSTEM**  
PC Laptop

**AIRCRAFT**  
Helicopter Aerospatiale AS350B2 Squirrel

**ALTITUDE**  
2000 ft

**ALTITUDE CONTROL**  
Barometric Altimeter  
Radar Altimeter

**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 (12 harmonic) extrapolated  
to 1993.0  
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 : ▼