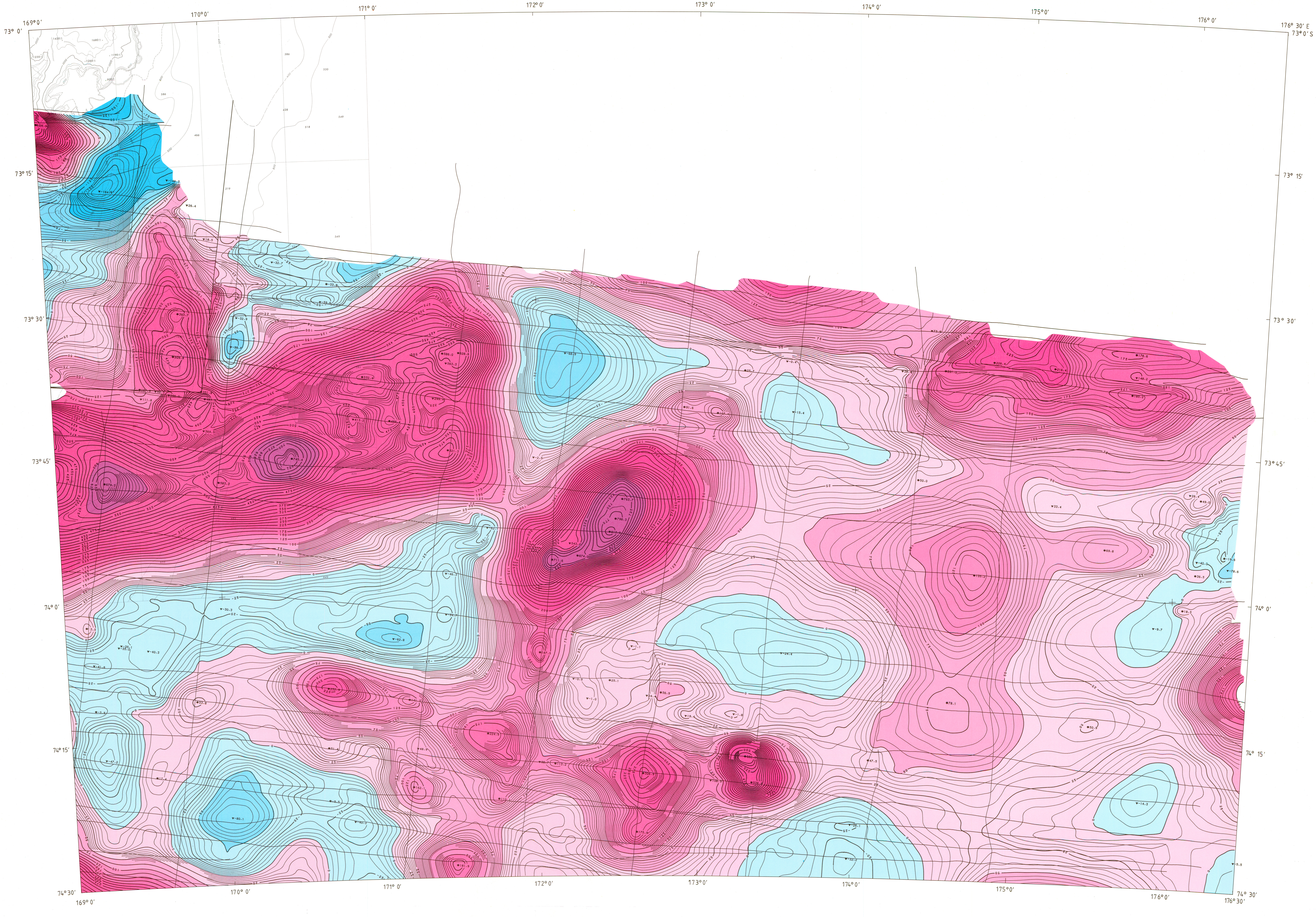

TOTAL MAGNETIC ANOMALY MAP

Victoria Land / Ross Sea
Antarctica

Sheet 3 Coulman Island

1: 250 000

0 5 10 15 20 km

GANOVEX IV, 1984/85

BGR
Bundesanstalt für Geo-wissenschaften und Rohstoffe
Fed. Rep. of Germany

USGS
United States
Geological Survey
USA

SUPPORT

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DATA ACQUISITION:

BUNDESANSTALT FÜR GEOWISSENSCHAFTEN UND ROHSTOFFE (BGR)
UNITED STATES GEOLOGICAL SURVEY (USGS)
PRAKLA-SEISMOS GmbH
DORNIER GmbH
INGENIEURGESELLSCHAFT FÜR INTERFACES GmbH (IGI)

TOPOGRAFIC BASE

USGS ANTARCTICA RECONNAISSANCE SERIES 1: 250 000

PROJECTION:	LAMBERT CONFORMAL CONIC 2 STANDARD PARALLELS $\varphi_1 = 72°40'S$, $\varphi_2 = 75°20'S$

MAGNETIC DATA:

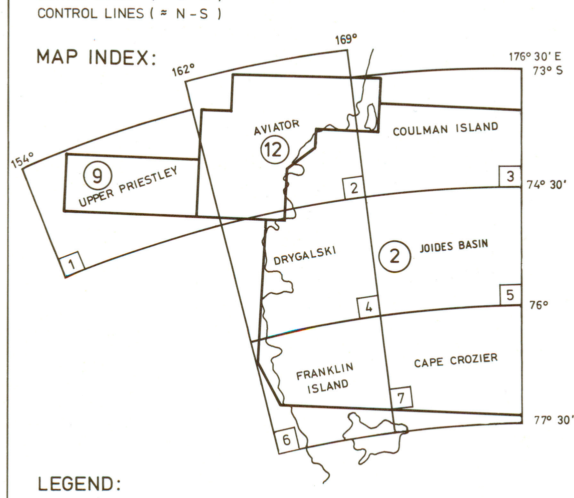
DECLINATION:	108°E TO 153°E (1985,0)
INCLINATION:	80,8°S TO 85,3°S (1985,0)
MEAN TOTAL INTENSITY:	65 100 nT
MAGNETOMETER (AIRCRAFT):	GEOMETRICS G 813 RESOLUTION 0,1 nT SAMPLE INTERVAL 1 s
MAGNETOMETER (BASE STATION):	SCINTREX MP 2 RESOLUTION 0,1 nT SAMPLE INTERVAL 10 s
ALTITUDES:	
SURVEY AREA 2	2 000 ft a.s.l.
SURVEY AREA 9	9 000 ft a.s.l.
SURVEY AREA 12	12 000 ft a.s.l.
MEAN TERRAIN CLEARANCE	2 000 ft
ALTITUDE CONTROL:	RADAR ALTIMETER (AREA 2) BAROMETRIC ALTIMETER (AREA 9, 12)
NAVIGATION:	DECCA-DOPPLER 71 TRIDENT III / CPNS VLF / OMEGA
POSITIONING:	MAPS 1: 250 000 TRANSIT SATELLITE POINTS FLIGHT PATH CAMERA
AIRCRAFT:	DORNIER DO 228-100 POLAR 2, POLAR 3

PROCESSING:

REMOVAL OF IGRF 1985,0 (MODEL 1980)
REMOVAL OF DIURNAL VARIATION BY LONG PERIOD FILTERED BASE STATION DATA
LEAST SQUARES ADJUSTMENT AT LINE INTERSECTIONS

LINE DIRECTION:
SURVEY LINES (≈ E-W)
CONTROL LINES (≈ N-S)

MAP INDEX:



LEGEND:

BOUNDARY AND NUMBER OF SURVEY AREAS
COAST LINE

Colour scale

above	1000 nT
600	1000
400	600
200	400
150	200
100	150
50	100
0	50
0	- 50
-50	-100
-100	-200
below	-200

MAGNETIC TOTAL INTENSITY:

CONTOUR INTERVAL	5 nT
RELATIVE MAXIMUM	*
RELATIVE MINIMUM	▼

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