

TOTAL MAGNETIC ANOMALY
MAP
Victoria Land / Ross Sea
Antarctica

Sheet 7 Cape Crozier

1:250 000

0 5 10 15 20 km

GANDVEX IV, 1984/85

BGR

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

USGS

United States
Geological Survey
U.S.A.

SUPPORT

National Science Foundation - US Antarctic Research Program, US A
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Bundesministerium für Forschung und Technologie (BMFT), FRG
Alfred Wegener Institut für Polarforschung (AWI), FRG

DATA ACQUISITION:

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

TOPOGRAPHIC BASE

USGS ANTARCTICA RECONNAISSANCE SERIES 1:250 000
PROJECTION: LAMBERT CONFORMAL CONIC
2 STANDARD PARALLELS
Y1 = 72°40' S, Y2 = 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

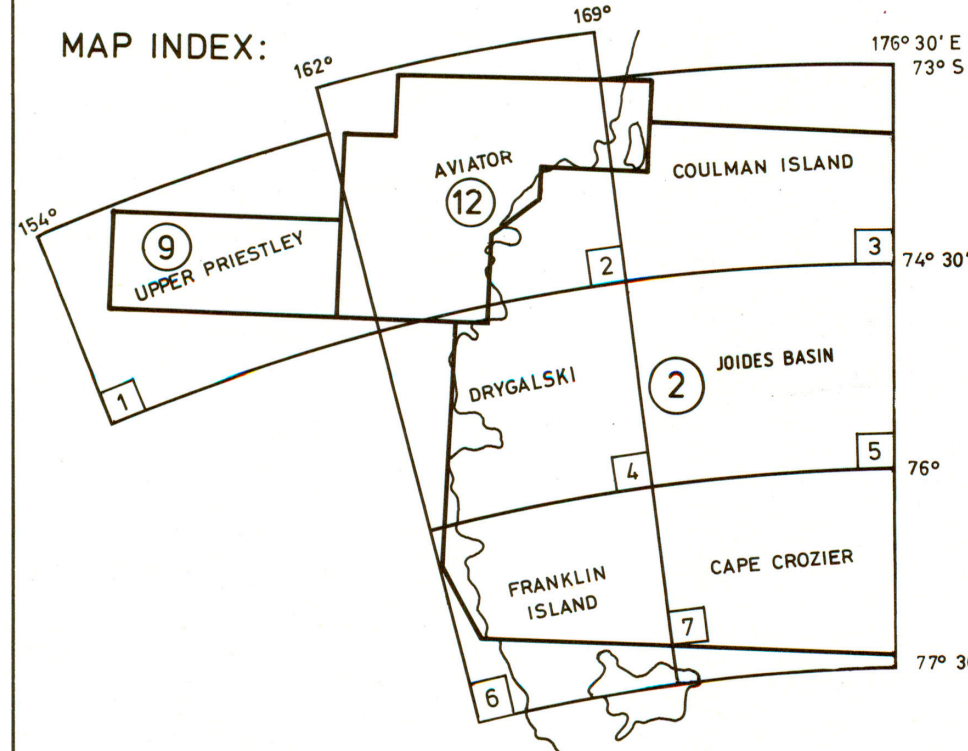
ALTITUDES:
SURVEY AREA 2 2 000 ft a.s.l.
SURVEY AREA 9 9 000 ft a.s.l.
SURVEY AREA 12 12 000 ft a.s.l.
MEAN TERRAIN CLEARANCE 2 000 ft
ALTITUDE CONTROL: RADAR ALTIMETER (AREA 2)
BAROMETRIC ALTIMETER (AREA 9,12)

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

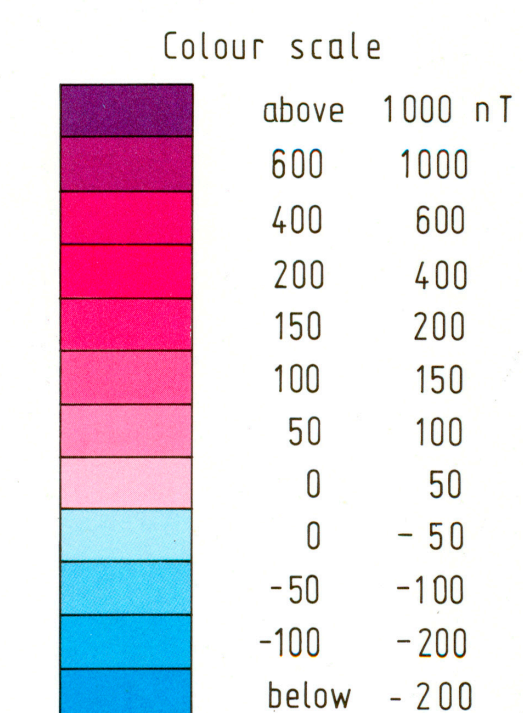
PROCESSING:

REMOVAL OF IGRF 1985.0 (MODEL 1980)
REMOVAL OF DIURNAL VARIATION BY LONG PERIOD FILTERED BASE STATION
LEAST SQUARES ADJUSTMENT AT LINE INTERSECTIONS
LINE DIRECTION:
SURVEY LINES (= E-W)
CONTROL LINES (= N-S)



LEGEND:

BOUNDARY AND NUMBER OF SURVEY AREAS
COAST LINE



MAGNETIC TOTAL INTENSITY:
CONTOUR INTERVAL 5 nT
RELATIVE MAXIMUM *
RELATIVE MINIMUM ▼

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