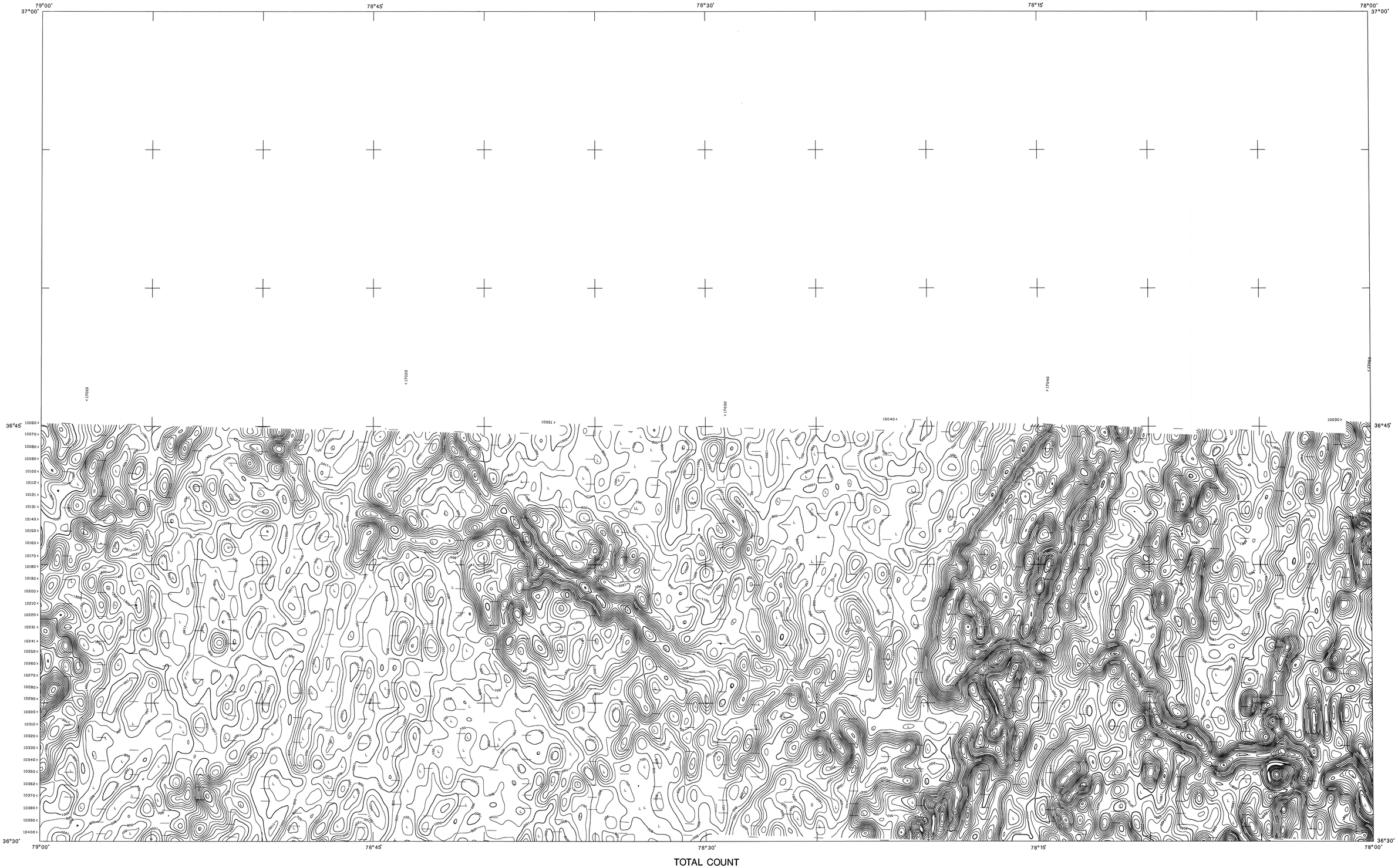
U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT
94-253
SHEET 7 OF 8



TOTAL COUNT

SURVEY SPECIFICATIONS

AIRCRAFT
N4489L CESSNA TITAN 404
MAGNETOMETER
SPLIT BEAM CESIUM SCINTREX H8
RESOLUTION 0.001 nanoTesla
CYCLE RATE 0.10 second
SAMPLE INTERVAL 8 metres (average)
SPECTROMETER
256 CHANNEL ENAXIS 1000
VOLUME 50.34 litres
CYCLE RATE 1.00 second
SAMPLE INTERVAL 80 metres (average)
DATA ACQUISITION
PICODAS PDAS-1000 ACQUISITION SYSTEM
11 CHANNEL RMS GR33R
FLIGHT LINE SPACING
TRAVERSE LINES 805 metres
TIE LINES 21500 metres
FLIGHT LINE DIRECTION
TRAVERSE LINES 090-270 degrees
TIE LINES 000-180 degrees
SURVEY HEIGHT
122 metres - mean terrain clearance
NAVIGATION
GPS navigation system
FLIGHT PATH RECOVERY
GPS located
with doppler positioning between located fiducials

DATA PROCESSING

GRID CELL SIZE	400 metres.
CONTOUR INTERVAL	100 counts per second.
PARALLAX CORRECTION	0.50 fiducial. The data has been corrected for compton scattering and adjusted to a height of 122 metres agl.

Flown and compiled by:
BGM AIRBORNE SURVEYS, INC.

Scale 1:100 000

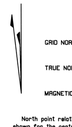
2 0 2 3 5 6 miles

2 0 2 4 6 8 10 km

NORTH AMERICAN DATUM 1927
TRANSVERSE MERCATOR PROJECTION, CENTRAL MERIDIAN -81°

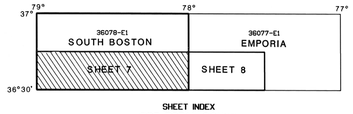
AERORADIOMETRIC MAPS OF PARTS OF THE SOUTH BOSTON AND EMPORIA 30' X 60' QUADRANGLES, VIRGINIA AND NORTH CAROLINA

BY
U.S. GEOLOGICAL SURVEY
1994

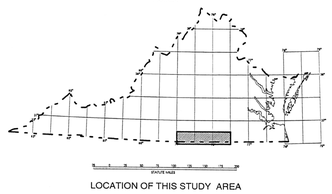


North point relationships are shown for the centre of the map.
Magnetic north is true for 1984.2

GRID/MAGNETIC ANGLE -6°45'24"
GRID CONVERGENCE -1°29'47.15"
SECULAR VARIATION 0°3'36" west per year



SHEET INDEX
FOR TOTAL COUNT



LOCATION OF THIS STUDY AREA

This map was prepared under contract to the U.S. Geological Survey and has not been reviewed for conformity with USGS editorial standards. Opinions and conclusions expressed herein do not necessarily represent those of the USGS. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the USGS.