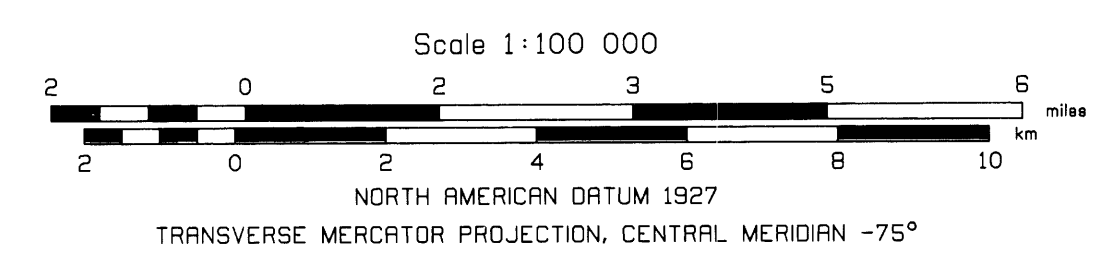


TOTAL COUNT



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

BY
U.S. GEOLOGICAL SURVEY
1994

SURVEY SPECIFICATIONS

AIRCRAFT
N446BL CESSNA TITAN 404

MICROMETER
SPLIT BEAM CESIUM SCINTREX HB
RESOLUTION 0.001 microWatts
CYCLE RATE 0.10 second
SAMPLE INTERVAL 8 metres (coverage)

SPECTROMETER
256 CHANNEL EMUS2 1000
VOLUME 50.34 litres
CYCLE RATE 1.00 second
SAMPLE INTERVAL 80 metres (coverage)

DATA ACQUISITION
PICODAS POPS-1000 ACQUISITION SYSTEM
11 CHANNEL, 8MS (CS28)

FLIGHT LINE SPACING
TRAVERSE LINES 805 metres
TIE LINES 21500 metres
FLIGHT LINE DIRECTION
TRAVERSE LINES 290-270 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,
0.50 fiducial

PARALLAX CORRECTION
The data has been corrected for
compass scattering and adjusted
to a height of 122 metres a.g.l.

Flown and compiled by:
BGM AIRBORNE SURVEYS, INC.

