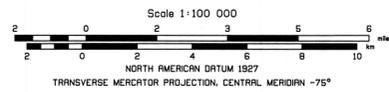


%POTASSIUM



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

BY  
U.S. GEOLOGICAL SURVEY  
1994

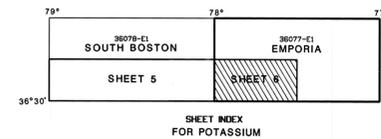
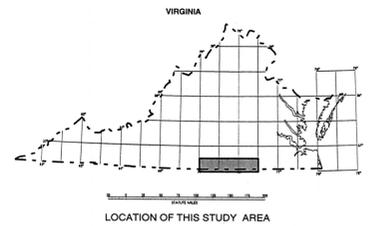
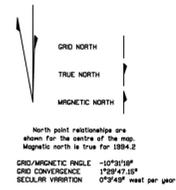
**SURVEY SPECIFICATIONS**

**AIRCRAFT**  
N448SL CESSNA TITAN 404  
**MAGNETOMETER**  
SPLIT BEAM CESIUM SCINTREX HB  
RESOLUTION 0.001 ppm/step  
CYCLE RATE 0.10 second  
SAMPLE INTERVAL 8 metres (coverage)  
**SPECTROMETER**  
256 CHANNEL ENMODS 1000  
VOLUME 50-34 litres  
CYCLE RATE 1.00 second  
SAMPLE INTERVAL 80 metres (coverage)  
**DATA ACQUISITION**  
PICOORS PORS-1000 ACQUISITION SYSTEM  
11 CHANNEL RMS CR33A  
FLIGHT LINE SPACING  
TRAVERSE LINES 805 metres  
LINE LINES 21500 metres  
FLIGHT LINE DIRECTION  
TRAVERSE LINES 090-270 degrees  
LINE 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 .15 % Potassium  
PARALLAX CORRECTION 0.50 fission  
The data has been corrected for  
compton scattering and adjusted  
to a height of 122 metres agl.  
It was then converted to ground  
concentration units.

Flown and compiled by:  
BGM AIRBORNE SURVEYS, INC.



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.