DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U.S. NAVAL OCEANOGRAPHIC OFFICE

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-535-A

INDEX MAP SHOWING AREA COVERED BY THE TRANSCONTINENTAL GEOPHYSICAL SURVEY. AREA OF THIS MAP SHADED

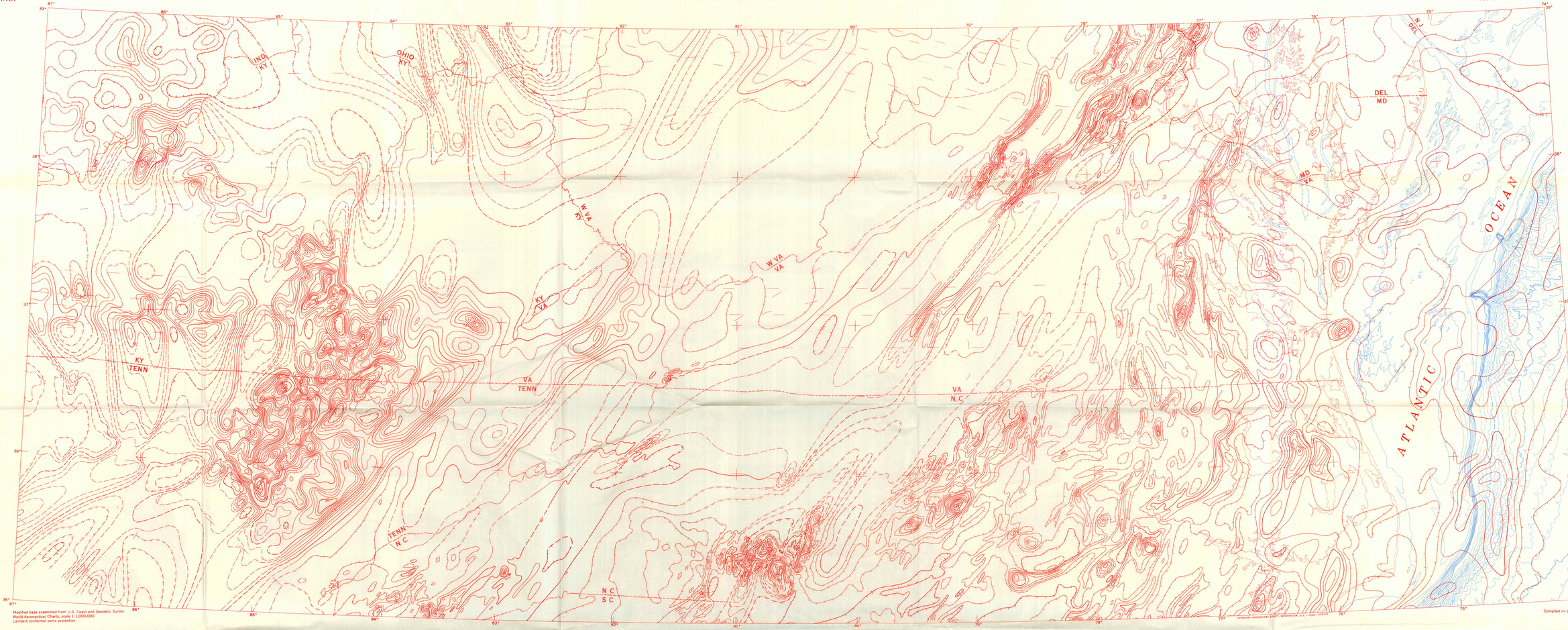
EXPLANATION

Magnetic contours
In hundreds of gammas. Dashed where incomplete; contour interval 100 gammas; datum arbitrary. Main magnetic field of the earth, supplied by the U.S. Coast and Geodetic Survey and based on Epoch 1955, has been removed from all aeromagnetic data

Magnetic contours showing area of lower magnetic intensity

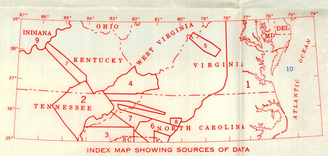
Flight path
Showing location of individual flight lines and exception to standard elevation

Submarine topographic contours
In meters; datum is mean sea level



Modified base assembled from U.S. Coast and Geodetic Survey World Aeronautical Charts, scale 1:1,000,000
Lambert conformal conic projection

Compiled in 1966-67



INDEX MAP SHOWING SOURCES OF DATA

SOURCES OF DATA

All contours not identified by area on the accompanying source map are total intensity contours based on airborne traverse lines flown between 5,000 and 8,000 feet above sea level by the U.S. Naval Oceanographic Office and the U.S. Geological Survey.

1. Total intensity aeromagnetic contours based on 5 mile spaced lines flown by the U.S. Naval Oceanographic Office at 500 feet over the ocean, 2500 feet overland north of the Potomac River, and 1500 feet overland south of the Potomac River.
2. Total intensity aeromagnetic contours based on one mile spaced lines flown from 500 to 1500 feet above ground. From U.S. Geological Survey Professional Paper 516-A, plate 2.
3. Total intensity aeromagnetic contours based on one mile spaced lines flown by the U.S. Geological Survey at 6000 feet above sea level.
4. Total intensity aeromagnetic map of southwest Virginia flown 5000 feet above sea level at 1.5 mile spacing by the Aero Service Corporation for the Commonwealth of Virginia.
5. Total intensity aeromagnetic contours based on 2.5 mile spaced lines flown by the U.S. Geological Survey at 1000 feet above ground.
6. Total intensity aeromagnetic contours based on 2 mile spaced lines flown by the U.S. Geological Survey from 2000 to 3500 feet above sea level.
7. Total intensity aeromagnetic contours based on 2 mile spaced lines flown at 6000 feet above sea level.
8. Total intensity aeromagnetic contours generalized from U.S. Geological Survey map GP-561 flown at 500 feet above ground, 0.5 mile spacing.
9. Total intensity aeromagnetic contours based on one mile spaced lines flown at 1000 feet above ground from U.S. Geological Survey Professional Paper 316, plate 4.
10. Bathymetric data from U.S. Geological Survey map I-451

TRANSCONTINENTAL GEOPHYSICAL SURVEY (35°–39° N)

MAGNETIC AND BATHYMETRIC MAP FROM 74° TO 87° W LONGITUDE

By
Isidore Zietz, H. P. Stockard, and John R. Kirby

A CONTRIBUTION TO THE UPPER MANTLE PROJECT

SCALE 1:1 000 000

25 0 25 50 75 100 MILES
25 0 25 50 75 100 KILOMETERS

1968

For sale by U.S. Geological Survey, price 75 cents