DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
MAP GP-570

EXPLANATION

Radioactivity contours

Showing net intensity in counts per second after removal of cosmic component and adjustment for deviations from surveying altitude. Hachured to indicate closed areas of lower radioactivity. Contours are dashed where data are incomplete. Contour interval 50 counts per second

Flight path

Showing location and spacing of data

NOTE

The aeroradioactivity data were obtained with continuously recording scintillation detection equipment which utilizes thallium-activated sodium iodide crystals. The equipment measures gamma radiation with energy levels greater than 50 kev (thousand electron volts). The effective area of response of the scintillation equipment at an altitude of 500 feet above ground is approximately 1000 feet in diameter. The presence of water within the area of response will lower the terrestrial radioactivity, as water absorbs gamma radiation. The amount of fallout present is negligible and assumed to be uniformly distributed

INDEX MAP SHOWING LOCATION OF AERORADIOACTIVITY MAPS PUBLISHED BY THE U.S. GEOLOGICAL SURVEY IN NEW JERSEY AND ADJACENT PARTS OF PENNSYLVANIA. AREA OF GP-570 SHADED

Base from U.S. Geological Survey topographic quadrangles: Bloomsbury, 1955, and Easton, 1956

NATURAL GAMMA AERORADIOACTIVITY MAP OF THE BLOOMSBURY AND PART OF THE EASTON QUADRANGLES, NEW JERSEY AND PENNSYLVANIA

By
G. R. Boynton, D. R. Pittillo, and G. L. Zandle

SCALE 1:24 000

1 0 1 MILE

1 .5 0 1 KILOMETER

1966

Aeroradioactivity survey made at 500 feet above the ground, 1963

For sale by U.S. Geological Survey, price 50 cents