



EXPLANATION



Radioactivity contours

Showing net intensity in counts per second after removal of cosmic component and adjustment for deviations from surveying altitude. Hatched 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-568 SHADED.

**NATURAL GAMMA AERORADIOACTIVITY MAP OF THE BANGOR QUADRANGLE
NEW JERSEY AND PENNSYLVANIA**

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

SCALE 1:24 000



1966

Aeroradioactivity survey made at 500 feet above the ground, 1963

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