

**PROPERTY OF  
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GEOLOGICAL SURVEY**

**EXPLANATION**

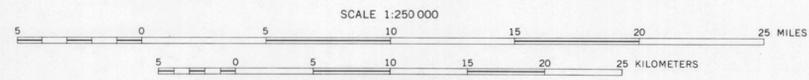
● 132.3  
Gravity station  
Islands other than Amchitka and Rat show milligal value at station location. Amchitka and Rat islands were contoured because of better control

 155  
Gravity contours  
Dashed where approximately located. Contour interval 5 milligals. Hachured contours show areas of low gravity  
A density of 2.67 grams per cubic centimeter was assumed in reducing the data to the complete Bouguer anomaly. Terrain corrections were computed on a digital computer to a radius of 166.7 kilometers by a method described by Plouff (1966). Theoretical gravity was computed from the International Formula. The gravity values were referred to the Adak Island airport base station (Woollard and Rose, 1963, p. 86)

**REFERENCES**

Plouff, Donald, 1966, Digital terrain corrections based on geographic coordinates (abs.) Geophysics, v. 31, no. 6, p. 1208.  
Woollard, G. P., and Rose, J. C., 1963, International gravity measurements: Madison, Wisc., Univ. of Wisc. Geophysical and Polar Research Center, 518 p.

Base by U.S. Geological Survey, Rat Island, 1951  
100,000-foot grid based on Alaska coordinate system, zone 10



SCALE 1:250 000  
CONTOUR INTERVAL 200 FEET  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER  
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER  
1969 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 9°30' TO 7°00' EAST

**GRAVITY MAP OF AMCHITKA AND NEARBY ISLANDS, ALASKA**

By  
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