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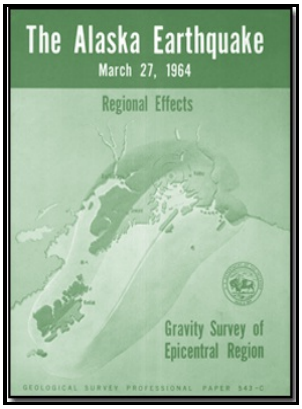

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Gravity Survey and Regional Geology of the Prince William Sound Epicentral Region, Alaska

Geological Survey began gravity surveys in Alaska ten years ago with local surveys in the Copper River and Tanana Basins. Simple Bouguer anomaly contours trend approximately parallel to the arcuate geologic structure around the sound. Both the Valdez and the Orca Groups were complexly folded and extensively faulted during at least three major episodes of deformation: an early period of Cretaceous or early Tertiary orogeny, a second orogeny that probably culminated in late Eocene or early Oligocene time and was accompanied or closely followed by emplacement of granitic batholiths, and a third episode of deformation that began in late Cenozoic time and continued intermittently to the present.

Progress on a gravity map of Alaska

URL Other contributors Variant title At head of title: Alaska earthquake, March 27, 1964: regional effects Uniform series Notes Title from title screen viewed September 24, 2014. Densities of the clastic rocks in both the Valdez and Orca Groups average about 2. Data have now been obtained in….

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Simple Bouguer anomaly contours trend approximately parallel to the arcuate geologic structure around the sound. . Superimposed on the gradient is a prominent gravity high of as much as 65 mgal that extends from Elrington Island on the southwest, across Knight and Glacier Islands to the Ellamar Peninsula and Valdez on the northeast.

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The Prince William Sound gravity high extends southwest-northeast without major horizontal offset for more than 100 miles.

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PDF documents opened from your browser may not display or print as intended. About 500 gravity stations were established in the Prince William Sound region in conjunction with postearthquake geologic investigations.

Gravity survey and regional geology of the Prince William Sound epicentral region, Alaska

Larger Work Type Report Larger Work Subtype USGS Numbered Series Larger Work Title The Alaska earthquake, March 27, 1964: regional effects Professional Paper 543 Country United States State Alaska Other Geospatial Prince William Sound Google Analytic Metrics Additional publication details Part or all of this report is presented in Portable Document Format PDF. Most of this change may be interpreted as a regional gradient caused by thickening of the continental crust.

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The Prince William Sound gravity high extends southwest-northeast without major horizontal offset for more than 100 miles. Densities of the clastic rocks in both the Valdez and Orca Groups average about 2. Office-Earthquake Science Center Description v, 12 p.

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