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AVHRR Data: National Oceanic and Atmospheric Administration National Remote Sensing Center, UK United States Geological Survey Funding: NASA Solid Earth Sciences Program (NAG 5-1226) Division of Polar Programs (DPP 90-19247 & DPP 89-17127) Scripps Institution of Oceanography Institute for Geophysics, University of Texas, Austin Additional Copies: Data Archives, Institute for Geophysics University of Texas, Austin 8701 N. MOPAC Expy. Austin, TX 78759-8397

Ph. (512) 471-6156 Fax (512) 471-8844 This composite satellite image combines Geosat altimeter profiles of sea surface topography south of 60 S, with Advanced Very High Resolution Radiometer (AVHRR) data from Antarctica. The Geosat satellite was built and operated by the Johns Hopkins University Applied Physics Laboratory. It was launched by the US Navy in 1985 and the altimeter profiles were prepared and distributed by the National Geodetic Survey. We used the high density altimeter profiles (~3 km track spacing), collected over a 3.5 year period, to generate the gravity anomalies. The AVHRR data were acquired by the National Remote Sensing Center (NRSC) in England, then rectified, modified to remove seasonal ice, and published by the United States Geological Survey (Satellite Image Map of Antarctica, MAP I-2284, Reston VA 22092).