

Detection of sea floor structures in the southern ocean----processing for marine gravity images obtained from satellite altimetry

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From short wavelength component of GEOSAT/GM altimeter profiles, we obtained marine gravity images around the Antarctica of 0-360E, 40-72S. We next applied image processing for obtained gravity images. In the south Indian ocean near the Antarctica, we detected sea floor structures that suggests early direction changes of spreading. We therefore applied same processing for more extended regions.