Acoustic Backscatter, Offshore of Tomales Point Map Area, California

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Acoustic backscatter data was collected from 2007 to 2010 using a combination of 200-kHz and 400-kHz Reson 7125 and 244-kHz Reson 8101 multibeam sonars aboard the CSUMB research vessel. The date range corresponds to the publication date and refers to the year in which the data was collected. The backscatter data were normalized to enhance the backscatter of the SWATHplus system. The resulting normalized-amplitude values were postprocessed using USGS software (D.P. Finlayson, written commun., 2011) that normalizes for distance correction and other factors. The data were then combined with measurements of vessels motion (heave, pitch, and roll) in a CodaOctopus F180 system for marine vessels. The backscatter data were combined with measurements of vessels motion using the Applanix POS MV data, for variations in water-column sound velocity using the AM SVPlus software, and for variations in atmospheric pressure using the National Oceanic and Atmospheric Administration's National Weather Service. The backscatter data were then postprocessed using Geocoder within Cairs HIPS and SIPS software. Georeferenced Backscatter Rasters (GeoBaRs) were created for each survey line using the beam average or time series data types. The resulting backscatter data were then postprocessed using Geocoder within Cairs HIPS and SIPS software. Georeferenced Backscatter Rasters (GeoBaRs) were created for each survey line using the beam average or time series data types.

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