



Labrador Current from satellite altimetry and hydrography under different geoid models

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TOPEX/Poseidon altimetry sea level data are combined with hydrographic data to estimate mean speed and transport of the Labrador Current. The sea level data are referenced to different geoid models. The sensitivity of the estimated currents and transport to these models are examined. The results indicate significant barotropic component in the Labrador Current. There are prominent along-stream changes of the Labrador Current. The estimated mean currents are consistent with moored current measurements.