



Regional ice-mass redistribution in Antarctica from GRACE

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We present mass change estimates from the Gravity Recovery and Climate Experiment (GRACE) along the Antarctic Peninsula and in West Antarctica. The inverse gravimetric problem is solved using a forward modelling approach. To resolve individual drainage basins, ambiguities in the inversion are reduced by constraining the solution with supplemental remote sensing data. Interannual mass variations derived from GRACE are compared with accumulation estimates from meteorological models. The influence of these variations on long-term mass balance estimates are discussed, together with the uncertainties caused by glacial-isostatic adjustment.