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The Effect of Vertical Land Movement Data Sets on Estimates of Sea Level Rise around the UK

F.N. Teferle (1), R.M. Bingley (1), S.D.P. Williams (2), S. Bradley (3), G.A. Milne (3), P. Woodworth (2), I. Shennan (4)

(1) Institute of Engineering Surveying and Space Geodesy, University of Nottingham, UK. (2) Proudman Oceanographic Laboratory, UK. (3) Department of Earth Sciences, Durham University, UK. (4) Department of Geography, Durham University, UK.
(norman.teferle@nottingham.ac.uk/+441159513881)

The National Tidal and Sea Level Facility (NTSLF) (www.pol.ac.uk/ntsLf) operates the UK Tide Gauge Network, which consists of 44 “Class A” tide gauges. Data from these are supplied to the Permanent Service for Mean Sea Level (PSMSL) revised local reference (RLR) database and can be used thereafter for sea level studies around the UK coastline. Taking the RLR trends from the PSMSL we investigate the effect on estimates of sea level rise around the UK by applying different data sets of vertical land movement corrections, i.e. from geological information, numerical models of the glacial isostatic adjustment process and a combination of absolute gravity and continuous GPS measurements.