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Long Term Sea Level Changes in the Falkland Islands

P.L. Woodworth and D.T. Pugh
Proudman Oceanographic Laboratory, Liverpool, United Kingdom (plw@pol.ac.uk)

In 1842, James Clark Ross measured sea levels at Port Louis, 30 km NW of Port Stanley in the Falkland Islands, over a period of 8 months. The benchmarks with respect to which the levels were measured have been perfectly preserved, and in 2009 a new series of sea level measurements was made at the same site. In addition, a set of GPS measurements was made at Port Louis and Port Stanley, where there is a permanent modern tide gauge. The collected measurements enable us to estimate the average rate of sea level change in the area since 1842 with an accuracy of approximately 0.4 mm/year. This is one of the few estimates of long term sea level change in the southern hemisphere. This poster will describe how the measurements were made and will present some of the first results.