

Interactive comment on “Using the Nordic Geodetic Observing System for land uplift studies” by M. Nordman et al.

Anonymous Referee #2

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review solid earth, "Using the Nordic Geodetic Observing System for land uplift studies" pg 380, line 20; In the explanation on GIA it is stated that this is due to variation of glaciers in the Northern Hemisphere. But all glaciers contribute to GIA, also variation on Antarctica!

pg 385, ch 2.4; For the NKG2005LU model, repeated levellings was a very important source of observations for the empirical land uplift modelling.

pg 386, line 17 ff; pg 386, last sentence; pg 387, line 21 ff, pg 388 line 11 ff; The relation between global mean sea level rise, sea level rise in northern Europe and the Baltic, and effect from GIA is included in the paper, but could be improved. In the results from the used data it is found that the obtained value of the sea level rise (regional

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data from the Nordic/Baltic area) fit almost perfect to the global sea level rise. The it is concluded that an other value is found from other work (e.g. Vestol, and Ekman) and some reasons for the difference is given. But the possibility that difference may be due to regional differences caused by the effect of GIA is not so clearly pointed out in the discussion (but it is mentioned in pg 387 line 23.

Interactive comment on Solid Earth Discuss., 6, 377, 2014.

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