



Reconstruction of the storm surges on the German coastline in 1872 and 1906

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Available long-term reanalyses data enables to reconstruct storm surge events in the past.

In our study, we investigate two historical events that caused serious damage on the German coastline. In November 1872, there was a strong storm surge in the Baltic Sea. In the German Bight a strong storm surge occurred in March 1906. A tide surge model is forced by tides from the FES tide model and by means of 20th Century Reanalysis data and ERA-data (only for 1906) to reconstruct these events. First results are presented to answer the question: 'Is the quality of the forcing data sufficient to produce reasonable results?'