Sea level change in the Baltic Sea

**What is known about sea-level research in the Baltic?**

A literature research with focus on the mean Baltic sea-level change by Birgit Hünicke
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More information:  
http://coast.hzg.de/staff/huenicke/baltic_sea_level_change.html

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**Sea Level Publications**

<table>
<thead>
<tr>
<th>Contents</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Books..................................................................................</td>
<td>2</td>
</tr>
<tr>
<td>2. Peer-reviewed Sea Level Journal Articles........................</td>
<td>2</td>
</tr>
<tr>
<td>3. Grey Literature...................................................................</td>
<td>9</td>
</tr>
</tbody>
</table>

At present, there is 1 book, 129 peer-reviewed journal articles, as well as 37 citations which are regarded as “grey literature” with reference to sea level.

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Status as of 8 February 2011

Silke Köppen and Marcus Reckermann
International BALTEX Secretariat
1. Books


2. Peer-reviewed Sea Level Journal Articles


Ekman, M., 1997: Anomalous Winter Climate coupled to Extreme Annual Means in the Baltic Sea Level during the last 200 years. Small Publications in Historical Geophysics No. 3, 14 pages

Ekman, M., 1998: Long-term changes of Interannual Sea Level Variability in the Baltic Sea and Related Changes of Winter Climate. Small Publications in Historical Geophysics No. 5, 14 pages


Ekman, M., 2005: Changes in Winter Climate Variability Deduced from the Baltic Sea Level, and the Winter that never arrived. Small Publications in Historical Geophysics No. 14, 13 pages

Ekman, M., 2006: The First Land Uplift Map that could have been constructed - but never was. Small Publications in Historical Geophysics No. 15, 14 pages

Ekman, M., 2007: A Secular Change in Storm Activity over the Baltic Sea Detected through Analysis of Sea Level Data. Small Publications in Historical Geophysics No. 16, 13 pages


Gästgifvars, M., S. Müller-Navarra, L. Funkquist, V. Huess, 2008: Performance of operational systems with respect to water level forecasts in the Gulf of Finland, Ocean Dynamics, Vol 58, No 2


Mörner, N.-A., 1999: Sea level and climate: rapid regressions at local warm phases. Quaternary International 60, 75-82. (including south Sweden sea level database)


Suursaar, Ü., 2010: Waves, currents and sea level variations along the Letipea – Sillamäe coastal section of the southern Gulf of Finland. Oceanologia, No 52, Issue 3, pp. 391-416


Wróblewski, A., 1996: Seasonal forcing of Baltic water volumes by the meteorological fields over the basin from 1898 to 1970. Oceanologia, Vol. 38, No. 4, pp. 529-541


Wróblewski, A., 2001: A probabilistic approach to sea level rise up to the year 2100 at Kolobrzeg, Poland. Climate Research, Vol. 18, pp. 25-30


3. Grey Literature


Baerens, C., P. Hupfer, 1999: Extremwasserstände an der deutschen Ostseeküste nach Beobachtungen und in einem Treibhausgasszenario. Küste 61, 47-72


Climate change research - Danish Contributions. Danish Climate Centre, Copenhagen pp. 237-254


Lazarenko, 1961: (Fluctuations of water level) Gidrometizdat Leningrad (in Russian)


Lisitzin E. 1966b: Mean sea level heights and elevation systems in Finland. Societas Scientarium Fennica, Commentationes physico-Mathematica, Vol. 32 No 4, 14 pp

Lisitzin, E., 1958: Determination of the water surface in the Gulf of Finland, Geophysica, 5 (4)


Meier, H. E. M., 2001: The first Rossby Centre regional climate scenario for the Baltic Sea using a 3D coupled ice-ocean model. Reports Meteorology and Climatology No. 95, SMHI Norrköping, Sweden, 63 pp


Stenij, S. E., I. Hela, 1947: Suomen merenrannikoiden vedenkorkeuksien lukuisuudet (Frequency of the water heights on the Finnish coasts). Merentutkimuslaitoksen


Suursaar, Ü., T. Kullas, 2009: Decadal changes in wave climate and sea level regime: the main causes of the recent intensification of coastal geomorphic processes along the coasts of Western Estonia? WIT Transactions on Ecology and the Environment - Coastal Processes 126, pp. 105-116