Baltic-C Meta-data-set:

Model forcing: Scenario RCM data to the PROBE-Baltic Model

1.) General description of the data set:
3-hourly data including 2-m temperature, wind, humidity, total cloud cover, and precipitation. These are taken from coupled atmosphere–ocean general circulation models (AOGCM) dynamically downscaled by the regional climate model (RCM) RCA3. The AOGCMs are ECHAM5/OPYC3, HadCM3 and CCSM3 with the greenhouse gas emission scenarios A1B, A2 and B1. The data are derived as input to the ocean model PROBE-Baltic.

2.) Created:
December, 2009.

3.) Last update:
December, 2009.

4.) Keywords:
Climate scenarios, Baltic Sea, PROBE-Baltic, RCA3.

5.) Area:
Baltic Sea.

6.) Spatial extension:
Baltic Sea including Kattegat, Belt Seas and Øresund.

7.) Spatial resolution:
13 basins in the Baltic Sea.

8.) Time window:
1961–2100.

9.) Temporal resolution:
3-hourly.

10.) Data and arrays:
ASCII files of 2-m temperature and humidity, 10-m wind, total cloud cover and precipitation. Data are derived for the central point in each basin. Monthly atmospheric CO_2 is represented by a station in southern Baltic Sea and the emission scenarios A1B, A2 and B1. Also the sea-level pressure is given at Oxøya and Debilt.

11.) Reference to other data sets:

Dynamically downscaled climate simulation with ECHAM5/OPYC3 (A1B, A2, B1), HadCM3 (A1B) and CCSM3 (A1B) using RCA3. Data derived from scenario simulations from the ENSEMBLES project (http://www.ensembles-eu.org/) and Rossby centre at SMHI (http://www.smhi.se/en/Research/Research-departments/climate-research-rossby-centre).

12.) Data quality (degree of validation):

Model simulations.

13.) Where to find the data?

Due to data volume, data available from contact persons.

14.) Contact persons:

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