

Baltic-C Meta-data-set:

Model forcing: Scenario RCM data to the CSIM model

1.) General description of the data set:

Daily data including 2-m temperature 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 catchment nutrient model CSIM.

2.) Created:

December, 2009.

3.) Last update:

December, 2009.

4.) Keywords:

Climate scenarios, Baltic Sea catchment, CSIM, RCA3.

5.) Area:

Baltic Sea catchment area.

6.) Spatial extension:

A rectangular box including the Baltic Sea catchment area.

7.) Spatial resolution:

0.44° grid (50 x 50 km).

8.) Time window:

1961–2100.

9.) Temporal resolution:

Daily.

10.) Data and arrays:

ASCII files of 2-meter temperature and precipitation.

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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