

## Baltic-C Meta-data-set:

### CSIM model results

#### 1.) General description of the data set:

Monthly data on water, N (nitrogen), P (phosphorous), CT (dissolved inorganic carbon), Alk (alkalinity) and DOC (dissolved organic carbon) fluxes for 7 basins draining to the Baltic Sea. Data covers the time period 1961 to 2099 for 15 different scenarios.

#### 2.) Created:

May, 2011.

#### 3.) Last update:

May, 2011.

#### 4.) Keywords:

Climate scenarios, Baltic Sea catchment, CSIM, RCA3.

#### 5.) Area:

Baltic Sea catchment area.

#### 6.) Spatial extension:

All major river basins of the Baltic Sea catchment area.

#### 7.) Spatial resolution:

Variable, according to catchment area.

#### 8.) Time window:

1961–2099.

#### 9.) Temporal resolution:

Monthly.

#### 10.) Data and arrays:

ASCII files with monthly data. One file for each basin and scenario. Scenarios are given a number 1-15 which is followed by \_ and two letters. For example 15\_KT, which means scenario 15 for basin Kattegat. Other letters are BB= Bothnian Bay, BS= Bothnian Sea, GF=Gulf of Finland, GR=Gulf of Riga, BP=Baltic Proper and DS=Danish Straits.

Scenarios;

No	GCM			GCM bias correction, factor addressed
1	ECHAM	A1B	#1	(baseline scenario)
2	ECHAM	A1B	#2	natural variability
3	ECHAM	A1B	#3	natural variability
4	HadCMA1B			climate system
5	CCSM	A1B		climate system
6	ECHAM	A2		emissions (higher)

7	ECHAM	B1		emissions (lower)
8	ECHAM	A1B	#1	land cover change
9	ECHAM	A1B	#1	nutrient loads change
10	ECHAM	A2		multi-factor, "business as usual"
11	ECHAM	A1B	#1	multi-factor, "balanced policy"
12	ECHAM	B1		multi-factor, "environmental"
13	ECHAM	A2		bias-corrected version of Scenario 10
14	ECHAM	A1B	#1	bias-corrected version of Scenario 11
15	ECHAM	B1		bias-corrected version of Scenario 12

Columns in text files are;

1. date (yyyy-mm-dd)
2. Julian day
3. catchment area (m2)
4. runoff (mm)
5. Total runoff in L
6. CT (dissolved inorganic carbon) mol
7. Alk (alkalinity) mol
8. DOC (dissolved organic carbon) mol
9. DIN (dissolved inorganic nitrogen) ton
10. TN (total nitrogen) ton
11. DIP (dissolved inorganic phosphorus) ton
12. TP (total phosphorous) ton.

11.) [Reference to other data sets:](#)

NONE.

12.) [Data quality \(degree of validation\):](#)

Model simulations.

13.) [Where to find the data?](#)

Downloadable from FTP-site and available from contact persons.

14.) Contact persons:

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