

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parametres in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
Drainage basin characteristics used to run MONURIS model	A set of GIS maps characterizing the Oder river catchment	the Oder, drainage basin characteristics	Analltical units (contours), flow net (lines), elevation (m above sealevel), precipitation (mm/a), hydrogeological characteristics (qualitative, 4 categories), soil (qualitative, 12 FAO categories), field capacity (%), N-content in top soil (mgN/100g soil), P-content in top soil (mgP/100g soil), landuse (qualitative, 5 categories), population density (people/km2)	The Oder river basin	variable	n/i	n/i		January, 2010		pdf freely downloadable, GIS on request from the contact person	Markus Venohr <m.venohr@igb-berlin.de> at Leibniz Institute of Freshwater Ecology and Inland Fisheries	http://www.io-warnemuende.de/amber-results.html		AMBER	C1
SYKE MONITORING DATA: Copepods/Cladocerans	Data sets of calanoid copepod and cladoceran abundances (N/m ³) and biomass (mg/m ³) of the Baltic Sea from Finnish monitoring. Sampling with WP-2 and mesh size of 0.1 mm in accordance to HELCOM Monitoring and Assessment program (HELCOM, 1988, 2005).	Baltic Sea, Monitoring, Zooplankton	Abundance (N/m ³) of calanoid copepods and cladocerans, biomass (mg/m ³), biomass of calanoid copepods and cladocerans	Arcona & Bornholm Basin, Eastern & Western Gotland Basin, Aland Sea, Bothnian Sea & Bay, Gulf of Finland	Spatial extension: Latitude: 54.555 - 65.2302 Longitude: 13.179 - 26.2081 Depth: Spatial resolution: Horizontally: 24 stations, range of stations per sub-divisions: 1 (SD 25) - 4 (SD 24 & 27); mean number of sampling stations per season and subdivision: SD24: 1 / SD25: 1 / SD26: 1 / SD27: 1-2 / SD28: 2 / SD29: 1-2 / SD30: 2 / SD31: 2 / SD32: 2. Vertically: range of max. sampling depth: 25 - 440 m / number of sampled depth strata: 1 - 5	04/1979 - 08/2008	Sampling mainly in summer (30 years - winter sampling only for 9 years, spring 3 years) / main sampling month: August / one sampling per season at each station / some stations sampled yearly, some stations only in few years	Validated by IHF	1979	2009	On request from the contact	Juha Flinkman Marine Research Center, Finnish Environment Institute SYKE Mechelininkatu 34a P.O. Box 140, FI - 00251 Helsinki, Finland Email: Juha.Flinkman@ymparisto.fi Saskia Otto Institute for Hydrobiology and Fisheries Science Hamburg University Gr. Elbstr. 133, D-22767 Hamburg, Germany	At SYKE, IHF	no	AMBER	
BORNHOLM MONITORING DATA: Mesozooplankton	Data sets of mesozooplankton abundances (N/m ³) and biomass (mg/m ³) of the Baltic Sea from German, Swedish and Polish monitorings. Sampling with WP-2 and mesh size of 0.1 mm in accordance to HELCOM Monitoring and Assessment program (HELCOM, 1988, 2005).	Bornholm Basin, Monitoring, Zooplankton	Mesozooplankton abundances (N/m ³) and biomass (mg/m ³)	Bornholm Basin	Spatial extension: Latitude: 55.25N Longitude: 16.0E Depth: Spatial resolution: Horizontally: 1 station Vertically: range of max. sampling depth: 10 - 130 m / number of sampled depth strata: 1 - 4	05/1979 - 11/2006	Almost for every year seasonal sampling / main sampling months: March, May, Aug, Nov / 1-6 samplings per season	Validated by IHF	?	2006	On request from the contact	Lutz Postel Leibniz-Institut für Ostseeforschung Warnemünde Seestr. 15, D-18119 Rostock, Germany Email:lutz.postel@io-warnemuende.de Saskia Otto Institute for Hydrobiology and Fisheries Science Hamburg University Gr. Elbstr. 133, D-22767 Hamburg, Germany	Data centre of IOW, at IHF	no	AMBER	
LATFRI MONITORING DATA: Mesozooplankton	Data sets of mesozooplankton abundances (N/m ³) and biomass (mg/m ³) of the Baltic Proper from Latvian monitoring. Sampling with Juday net, opening diameter 0.36 m, mesh size 0.16mm. Biomass computation after Henrroth (1985)	Baltic Sea, Monitoring, Zooplankton	Mesozooplankton abundances (N/m ³) and biomass (mg/m ³)	Bornholm Basin, Eastern & Western Gotland Basin, Gulf of Gdansk	Spatial extension: Latitude: 54.9 - 59.5083333 Longitude: 15.633 - 22.1833 Depth: 26 - 251 m Spatial resolution: Horizontally: range of stations per sub-divisions (SD): 1 (SD 27) - 360 (SD 28.2); mean number of sampling stations per season and subdivision: SD25: 2 / SD26: 2-3 / SD27: 1 / SD28: 2: 6-10 / SD29: 2 Vertically: range of max. sampling depth: 25 - 175 m / number of sampled depth strata: 1 - 10 / strategy of stratified sampling varied over time: 1977-1996 mainly 0-50m / 50-100m or 0-25 m / 25-50m / 50-100m, from 1997 on surface to max. sampling depth	02/1959 - 10/2008	Almost for every year seasonal sampling / main sampling month: Feb, May, Aug, Oct / 1 sampling per season at each station / stations not consistently sampled each year/season	Validated by IHF	1959	2009	On request from the contact	Georgs Kornilovs Latvian Fisheries Research Institute Riga 6 Daugavgrivas Street LV-1007 Riga, Latvia Email: georgs_k@latfri.lv Saskia Otto Institute for Hydrobiology and Fisheries Science Hamburg University Gr. Elbstr. 133, D-22767 Hamburg, Germany Email: Saskia.Otto@uni-hamburg.de	At LATFRI, IHF	no	AMBER	
MONITORING DATA: Meta-data-set Mesozooplankton	Data sets of mesozooplankton abundance and biomass from Northern Baltic Sea coast (Archipelago Sea, Finland). The data sets are vertically integrated over the euphotic zone. The data are representative of one location. The data are monthly observations.	Baltic Sea, Monitoring, Mesozooplankton	Abundance and biomass of the taxonomical groups of Rotifers, Cladocera and Copepoda, including occasional findings of other taxa. ophyceae, and others.	Northern Baltic Sea, coastal area, arciipelago	Spatial extension: Latitude: 60°15.347 N; Longitude: 21° 57.111 E ; Depth: from 20 meters depth up to the surface Spatial resolution: Horizontal: one spot, Vertical: 0 - 20 m	1966 to 1985, and 1991 up to present day	Monthly observations	validated through several publications.	1966 to 1985, and 1991 continuing	September 2009	On request from the contact	Dr. Ilppo Vuorinen University of Turku Archipelago Research Institute e-mail: ilppovuov@utu.fi	Data centre of EUROCEANS (later period of the plankton data), and Finnish Institute of Marine Research (early part of plankton data and hydrography), South-West Finland Environmental centre (HERTTA).	There are hydrographic and chemical data from the same location and time period, which include temperature, salinity, and nutrients (starting in early 1980's).	AMBER	
LUNG MONITORING DATA: Physical Parameters	Data of physical properties at 16 Stations off the coast of Mecklenburg-Vorpommern, Germany	Baltic Sea, Monitoring, Hydrography	Temperature, salinity, oxygen, oxygen saturation, pH	Southern Baltic Sea, coastal area	Spatial extension: Latitude: 53.822N-54.757N, Longitude: 11.172E -14.233E Depth: surface Spatial resolution:	Jan. 1970-Dec.2007	Monthly / variable	Validated through the Landesamt für Umwelt, Naturschutz und Geologie, Mecklenburg-Vorpommern, Germany	1970 to 2007	December 2009	On request from the contact	Mario von Weber Landesamt für Umwelt, Naturschutz und Geologie Abt. Wasser & Boden Goldberger Str. 12 18273 Güstrow	Landesamt für Umwelt, Naturschutz und Geologie (LUNG), Mecklenburg-Vorpommern, Germany	n/i	AMBER	
LUNG MONITORING DATA: Nutrients	Data of nutrients at 16 Stations off the coast of Mecklenburg-Vorpommern, Germany	Baltic Sea, Monitoring, Nutrients	PO4, total PO4, NO3, NO2, NH4, total N, SiO4	Southern Baltic Sea, coastal area	Spatial extension: Latitude: 53.822N-54.757N, Longitude: 11.172E -14.233E Depth: surface Spatial resolution:	Jan. 1970-Dec.2007	Monthly / variable	Validated through the Landesamt für Umwelt, Naturschutz und Geologie, Mecklenburg-Vorpommern, Germany	1970 to 2007	December 2009	On request from the contact	Mario von Weber Landesamt für Umwelt, Naturschutz und Geologie Mecklenburg-Vorpommern Abt. Wasser & Boden Goldberger Str. 12 18273 Güstrow	Landesamt für Umwelt, Naturschutz und Geologie (LUNG), Mecklenburg-Vorpommern, Germany	no	AMBER	
LUNG MONITORING DATA: Phytoplankton	Data of phytoplankton off the coast of Mecklenburg-Vorpommern, Germany	Baltic Sea, Monitoring, Phytoplankton	Data for phytoplankton species according to the HELCOM „Checklist for Phytoplankton Species“	Southern Baltic Sea, coastal area	Spatial extension: Latitude: 53.822N-54.757N, Longitude: 11.172E -14.233E Depth: surface Spatial resolution:	Jan. 1970-Dec.2007	Monthly / variable	n/i	1970 to 2007	December 2009	On request from the contact	Mario von Weber Landesamt für Umwelt, Naturschutz und Geologie Mecklenburg-Vorpommern Abt. Wasser & Boden Goldberger Str. 12 18273 Güstrow	Landesamt für Umwelt, Naturschutz und Geologie (LUNG), Mecklenburg-Vorpommern, Germany	no	AMBER	
Dataset MONI PHYS Meta	Temperature, salinity and oxygen data of the Baltic Sea from HELCOM monitoring. The data sets are separated in a set vertically integrated over the euphotic zone and bottom data. Horizontally the data sets are separated in specific areas: Kattegat, Baltic Proper, and Gotland Sea.	Baltic Sea, Hydrography, Monitoring	Temperature, salinity, oxygen	Western Baltic Sea and Baltic Proper	Spatial extension: Latitude: 53 - 60 N Longitude: 9 - 24 E Depth: oceanographic standard depth Spatial resolution: Horizontal (see station map) Vertical: 0, 5, 10, 15, 20, 25, 30 m	1. 1. 1969 - 31. 12. 2001	seasonal average	validated by HELCOM	10.1.2002	2.4.2003	On request from the contact	PD Dr. Joachim W Dippner Institut für Ostseeforschung Warnemünde Seestr. 15 D-18119 Rostock Email: dippner@io-warnemuende.de	Data centre of DOD, ICES, HELCOM, and IOW	no	AMBER	

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Dataset MONI NUTR Meta	Nutrient data of the Baltic Sea from HELCOM monitoring. The data sets are separated in a set vertically integrated over the euphotic zone and bottom data. Horizontally the data sets are separated in specific areas: Kattegat, Baltic Proper, and Gotland Sea.	Baltic Sea, Monitoring, Nutrients	Ammonium, nitrite, nitrate, phosphate, silicate	Western Baltic Sea and Baltic Proper	Spatial extension: Latitude: 53 - 60 N Longitude: 9 - 24 E Depth: oceanographic standard depth Spatial resolution: Horizontal (see station map) Vertical: 0, 5, 10, 15, 20, 25, 30 m	1. 1. 1969 - 31. 12. 2001 before 1991 silicate was monitored by chance	seasonal average	validated by HELCOM	14.8.2002	2.4.2003	On request from the contact	PD Dr. Joachim W Dippner Institut für Ostseeforschung Warnemünde Seestr. 15 D-18119 Rostock Email: dippner@io-warnemuende.de	Data centre of DOD, ICES, HELCOM, and IOW	no	AMBER	
Dataset MONI PHYT Meta	Data sets of phytoplankton abundance and biomass of the Baltic Sea from HELCOM monitoring. The data sets are vertically integrated over the euphotic zone. Horizontally the data sets are separated in the specific areas Kattegat and Belt Sea, and Baltic Proper.	Baltic Sea, Monitoring, Phytoplankton	Abundance and biomass of the taxonomical groups of Chlorophyceae, Craspedophyceae, Chrysophyceae, Ciliophora, Cryptophyceae, Diatomophyceae, Dinophyceae, Euglenophyceae, Heterotrophs, Nostocophyceae, Prasinophyceae, Prymnesiophyceae, Xanthophyceae, and others.	Western Baltic Sea and Baltic Proper	Spatial extension: Latitude: 53 - 60 N Longitude: 9 - 24 E Depth: oceanographic standard depth Spatial resolution: Horizontal (see station map)	1. 1. 1979 - 22.11. 2009	seasonal average	validated by HELCOM	13.3.2002	18.11.2009	On request from the contact	PD Dr. Joachim W Dippner Institut für Ostseeforschung Warnemünde Seestr. 15 D-18119 Rostock Email: dippner@io-warnemuende.de	Data centre of DOD, ICES, HELCOM, and IOW	no	AMBER	
Dataset MONI ZOO Meta	Data sets of zooplankton biomass of the Baltic Proper from Latvian monitoring. Sampling with Juday net, opening diameter 0.36 m, mesh size 0.16mm. Biomass computation after Henroth (1985).	Baltic Sea, Monitoring, Zooplankton	Biomass of <i>Acartia</i> spp., <i>Bosmina longispina</i> , <i>Centropages hamatus</i> , <i>Evdne nordmanni</i> , <i>Pseudocalanus elongatus</i> , <i>Podon</i> spp., <i>Synchaeta</i> spp., <i>Temora longicornis</i> , total biomass of Copepoda, total biomass of Cladocera.	Baltic Proper	Spatial extension: Latitude: 57 - 59 N Longitude: 18 - 22 E Depth: shallow stations: 40-65 m, deep stations: 90-235 m. Spatial resolution: Nine Stations Vertical: 0-25 m, 25-50 m, 50-100 m.	1. 1. 1960 - 31. 12. 1997	May, August, October	validated by HELCOM	1.5.1960	permanently	On request from the contact	PD Dr. Georgs Kornilovs Latvian Fisheries Research Institute Riga 6 Dauggrīvas Street LV-1007 Riga Latvia Email: georgs_k@latfri.lv	Data centre of IATFRI, HELCOM, and IOW	no	AMBER	
IGB: MONERIS Input DATA	Data of physical, anthropogenic and agricultural properties in the Oder River Basin (Poland, Germany and Czech Republic) (Nemunas River Basin still to come)	MONERIS, Input Data, Oder River Basin	Landuse, FAO Soildata, DEM, digital River System, Hydrogeology, precipitation	Oder River Basin, (Nemunas River Basin still to come)	Spatial extension: Latitude: 49°30'N - 53°50'N, Longitude 13°00'E - 20°00'E Spatial resolution: Variable	Variable	Monthly / annual / variable	Validated by IGB	1950 to 2005	December 2009	On request from the contact	Jens Hürdler & Dieter Opitz IGB: Leibniz Institute of Freshwater Ecology and Inland Fisheries Mügelseedamm 310 12587 Berlin E-mail: opitz@igb-berlin.de huerdler@igb-berlin.de	Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Germany	n/i	AMBER	
ICES MONITORING DATA SETS: Hydrology	Bottle data of temperature and salinity in the Central Baltic Sea from different monitoring programs	Hydrology, Central Baltic Sea, ICES	Temperature (°C) and salinity (psu) bottle data	Central Baltic Sea	Spatial extension: Latitude: 53.9N - 59.8N Longitude: 13.5E - 22E Spatial resolution: Horizontally: > 200 stations Vertically: vertical profile from	01/1959 - 12/2008	In every season and year, 1-40 stations where sampled (mostly as part of several monitoring programs from different countries)	Validated by ICES	?	2008	On request from the contact	ICES Saskia Otto Institute for Hydrobiology and Fisheries Science Hamburg University Gr. Elbstr. 133, D-22767 Hamburg, Germany Email: Saskia.Otto@uni-hamburg.de	Data centre of ICES: http://ices.dk/ocean/aspx/HydChem/HydChem.aspx	no	AMBER	
AMBER OBSERVATIONS: Meta-data-set Nemunas	Two times a transect of the Nemunas outflow were sampled for the horizontal and vertical nutrient distribution, salinity and oxygen contents, nitrate uptake rates and for the oxygen and nitrogen stable isotopes of nitrate.	Baltic Sea, Nemunas, stable isotopes, nitrogen uptake	Investigation of concentrations of NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , Si, Chl. a, POM (particular organic matter) and DON (dissolved organic nitrogen), salinity and oxygen contents, nitrate uptake rates and the oxygen and nitrogen stable isotopes of nitrate.	Nemunas outflow	Spatial extension: Latitude: 55.7-55.75 N; Longitude: 20.8-21.1 E Spatial resolution: Horizontal (see station map) Vertical: surface, Chl. a maximum	07.03.2009-09.03.2009	daily	Not validated	March 2009	April 2009	On request from the contact	PD Dr. Maren Voß and Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: maren.voss@io-warnemuende.de; frederike.korth@io-warnemuende.de	Not yet published	no	AMBER	B2
MONITORING DATA: Meta-data-set Nemunas river basin	Data sets of run off, nutrients: total nitrogen and phosphorus and dissolved inorganic nitrogen of the Nemunas river basin.	Nemunas river basin, monitoring	Run off, total nitrogen, total phosphorus, dissolved inorganic nitrogen	Nemunas river basin	Spatial extension: Latitude: 54 - 56 N; Longitude: 21 - 26 E; Spatial resolution:	09. 01. 2001 - 22. 08. 2006	Mostly monthly	Not validated	9.2.2009	1.5.2009	On request from the contact	Evelina Griniénė Coastal research and planning institute, Klaipėda University H. Manto 84, Klaipėda Email: evelina@corpi.ku.lt	Coastal research and planning institute	no	AMBER	B2
AMBER OBSERVATIONS: Meta-data-set Nemunas/Klaipėda	The surface water of river Nemunas and the outflow of the lagoon in Klaipėda were sampled for N-uptake experiments. Also samples for nutrients, salinity and oxygen contents, DON and DOC concentrations and ¹⁸ O and ¹⁵ N of nitrate were taken.	Baltic Sea, Nemunas, Curonian lagoon, stable isotopes, N uptake	Investigation of concentrations of NO ₃ ⁻ , NO ₂ ⁻ , NH ₄ ⁺ , PO ₄ ³⁻ , Si, Chl. a, POM (particular organic matter), DON (dissolved organic nitrogen), DOC (dissolved organic carbon), salinity and oxygen contents, DIN and DON uptake rates and ¹⁸ O and ¹⁵ N of nitrate.	Nemunas	Klaipėda: 55,69°N, 21,13°E; Nemunas: 55,30°N, 21,38 E Spatial resolution: Surface water	28.04.2010-29.04.2010	Selective sampling	Not validated	April 2010	April 2010	On request from the contact	Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: frederike.korth@io-warnemuende.de	Not yet published	no	AMBER	B2
MONITORING DATA: Meta-data-set Nemunas river basin	Data sets of waste water treatment plants of the Nemunas River basin.	Nemunas river basin, monitoring, waste water treatment plants, points of discharge	Data sets of location (coordinates) points of discharge, number of connected inhabitants to sewer systems and to waste water treatment plants, annual amount of municipal sewage treated in waste water treatment plants and annual loads of nitrogen and phosphorus of the Nemunas River basin	Nemunas river basin (Lithuanian part)	Spatial extension: Latitude: 54 - 56 N; Longitude: 21 - 26 E; Spatial resolution: Horizontal undefined	2007-2008	Annual	Not validated	25.11.2010	9.12.2010	On request from the contact	Evelina Griniénė Coastal research and planning institute, Klaipėda University H. Manto 84, Klaipėda Email: evelina@corpi.ku.lt	Coastal research and planning institute	no	AMBER	B2
AMBER OBSERVATIONS: Meta-data-set Nemunas	Seasonal cycle of the Nemunas river from 2009-2010	Seasonal cycle of the Nemunas river from 2009-2010	Concentrations of NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , NH ₄ ⁺ , POM (particular organic matter) and DON (dissolved organic nitrogen); $\delta^{15}N$ and $\delta^{18}O$ of nitrate; $\delta^{15}N$ of DON; $\delta^{15}N$ of PON; $\delta^{13}C$ of	Nemunas River	Two stations, one located at the main outlet of the lagoon (Klaipėda) and the other in the river	March 2009 - March 2010	Biweekly and monthly		January 2011	September 2011	On request from the contact	PD Dr. Maren Voß and Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: maren.voss@io-warnemuende.de; frederike.korth@io-warnemuende.de			AMBER	B2
AMBER OBSERVATIONS: Meta-data-set Oder	Three transects in the Oder outflow were sampled for horizontal and vertical nutrient distributions, salinity and oxygen contents, nitrate uptake rates and the oxygen and nitrogen stable isotopes of nitrate.	Baltic Sea, Oder, stable isotopes, nitrogen uptake	Investigation of concentrations of NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , Si, Chl. a, POM (particular organic matter) and DON (dissolved organic nitrogen), salinity and oxygen contents, nitrate uptake rates and the oxygen and nitrogen stable isotopes of nitrate.	Oder outflow	Latitude: 53.9-54.1 N; Longitude: 14.2-14.6 E Spatial resolution: Horizontal (see station map) Vertical: surface, Chl. a maximum,	12.03.2009-14.03.2009	Daily	Not validated	March 2009	April 2009	On request from the contact	PD Dr. Maren Voß and Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: maren.voss@io-warnemuende.de; frederike.korth@io-warnemuende.de	Not yet published	no	AMBER	B2
AMBER OBSERVATIONS: Meta-data-set Oder	Nitrogen (DIN and DON) uptake rates in the Szczecin lagoon	Baltic Sea, Oder, stable isotopes, nitrogen uptake	Concentrations of NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , POM (particular organic matter) and DON (dissolved organic nitrogen); nitrogen uptake rates;	Szczecin lagoon	Three stations in the lagoon	21.06.2010-22.06.2010	daily	Not validated	January 2011	January 2011	On request from the contact	PD Dr. Maren Voß and Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: maren.voss@io-warnemuende.de; frederike.korth@io-warnemuende.de	Not yet published	Sediment N removal estimates from Oder lagoon June 2010 (Dr. Susanna Hietanen)	AMBER	B2
AMBER OBSERVATIONS: Meta-data-set Oder	Seasonal cycle of the Oder river from 2000-2002	Baltic Sea, Oder, stable isotopes, nitrogen	Concentrations of NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , NH ₄ ⁺ , POM (particular organic matter) and DON (dissolved organic nitrogen); nitrogen uptake rates; $\delta^{15}N$ and $\delta^{18}O$ of nitrate; $\delta^{15}N$ of ammonium; $\delta^{15}N$ of PON; $\delta^{13}C$ of POC	Oder river	Two stations, one located at the main outlet of the lagoon and the other in the river	July 2000- May 2002	Biweekly		January 2011	January 2011	On request from the contact	PD Dr. Maren Voß and Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: maren.voss@io-warnemuende.de; frederike.korth@io-warnemuende.de	Maren Voss, Barbara Deutsch, Iris Liskow, Marianna Pastuszak, Ulrike Schulte and Stanistaw Sitek: Nitrogen retention in the Szczecin Lagoon, Baltic Sea, 2010. Isotopes in Environmental and Health Studies, Vol. 46, No. 3, 355-369	AMBER	B2	

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AMBER OBSERVATIONS: Meta-data-set Kalix	Seasonal cycle of the Kalix River from 2009-2010	Baltic Sea, Kalix, stable isotopes, nitrogen, DOM	Concentrations of NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , NH ₄ ⁺ , POM (particular organic matter) and DON (dissolved organic nitrogen); $\delta^{15}N$ and $\delta^{18}O$ of nitrate; $\delta^{15}N$ of DON; $\delta^{15}N$ of PON; $\delta^{13}C$ of	Kalix river	One stations located at the mouth of the river	September 2009 – October 2010	Monthly or less due to ice cover		January 2011	January 2011	On request from the contact	PD Dr. Maren Voß and Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: maren.voss@io-warnemuende.de; frederike.korth@io-warnemuende.de			AMBER	B2
AMBER OBSERVATIONS: Meta-data-set MSM12_4a_2	Data on $\delta^{13}C$ and $\delta^{15}N$ of dissolved organic matter (DOM) along a transect from the North Sea to the northern Baltic Sea	North Sea, Baltic Sea, stable isotopes, DOM	TOC, DOC, DN and DON concentrations, $\delta^{13}C$ and $\delta^{15}N$ of DOM (size 1 kD – 0.7 μ m), $\delta^{34}S$ of SO ₄ ²⁻ , $\delta^{18}O$ -H ₂ O. EMMA approach by means of $\delta^{13}C$ -DOM values. End member: terrestrial DOM and marine/autochthonous DOM.	North Sea to northern Baltic Sea	Lat: 54-66 °N, Long: 7-23 °E. Spatial resolution: see station map.	25.08.2009 – 07.09.2009	n/i	Not validated	January 2011	n/i	On request from the contact	Dr. Barbara Deutsch Department of Applied Environmental Science at Stockholm University Svante Arrhenius väg 8 SE-11418 Stockholm	Not yet published	AMBER OBSERVATIONS: Meta-data-set MSM 12_4a	AMBER	
AMBER OBSERVATIONS: Meta-data-set MSM12_4a	A transect of the Baltic Sea was sampled for measuring dissolved organic nitrogen (DON)- vs. dissolved inorganic nitrogen (DIN)- uptake rates. Furthermore the concentration of DOM was performed at the ship using ultra-filtration.	Baltic Sea, stable isotopes, DON uptake, DIN uptake	Nutrient-, Chl. a-, POM- (particular organic matter), and DOM- (dissolved organic matter) concentrations, DON and DIN uptake rates, oxygen and nitrogen stable isotopes of nitrate	Transect of the North Sea/Baltic Sea	Latitude: 54-66 °N; Longitude: 7-23 °E	25.08.2009-07.09.2009	Selected sampling	Not validated	February 2010	n/i	On request from the contact	Frederike Korth Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: frederike.korth@io-warnemuende.de	Not yet published	no	AMBER	
N removal in sediment /March 2009	Sediment N removal estimates from R/V Penck cruise March 2009	Baltic Sea, sediment, denitrification, nitrification, nitrogen	In situ and potential rates umol N/ m ² /d	Southern Baltic Sea, Arkona Basin	n/i	March 2009	n/i		October 2010	October 2010	On request from the contact	Dr. Susanna Hietanen Department of Environmental Sciences / Aquatic Sciences PO BOX 65 00014 University of Helsinki Finland	Not yet published	n/i	AMBER	
N removal in sediment / May-June 2009	Sediment N removal estimates from R/V Aranda cruise May-June 2009	Baltic Sea, sediment, denitrification, nitrification, nitrogen	In situ and potential rates umol N/ m ² /d	Gulf of Finland, Eastern Gotland Basin, Arkona Basin	several stations within an oxygen gradient	May-June 2009	n/i		October 2010	October 2010	On request from the contact	Dr. Susanna Hietanen Department of Environmental Sciences / Aquatic Sciences PO BOX 65 00014 University of Helsinki Finland	Not yet published	n/i	AMBER	
N removal in sediment/ July 2009	Sediment N removal estimates from R/V Penck cruise July 2009	Baltic Sea, sediment, denitrification, nitrification, nitrogen	In situ and potential rates umol N/ m ² /d	Southern Baltic Sea, Arkona Basin	several stations within an oxygen gradient	July 2009	n/i	n/i	October 2010	October 2010	On request from the contact	Dr. Susanna Hietanen Department of Environmental Sciences / Aquatic Sciences PO BOX 65 00014 University of Helsinki Finland	Not yet published	n/i	AMBER	
N removal in sediment/ June-July 2010	Sediment N removal estimates from R/V Heincke cruise June-July 2010	Baltic Sea, sediment, denitrification, nitrification, nitrogen	In situ and potential rates umol N/ m ² /d	Arkona Basin, Gdansk Bay	several stations within an oxygen gradient	June-July 2010	n/i	n/i	October 2010	October 2010	On request from the contact	Dr. Susanna Hietanen Department of Environmental Sciences / Aquatic Sciences PO BOX 65 00014 University of Helsinki Finland	Not yet published	n/i	AMBER	
N removal in sediment / June 2010	Sediment N removal estimates from Oder lagoon June 2010	Baltic Sea, sediment, denitrification, nitrification, nitrogen	In situ and potential rates umol N/ m ² /d	Oder lagoon	several stations within an oxygen gradient	June 2010	n/i	n/i	October 2010	October 2010	On request from the contact	Dr. Susanna Hietanen Department of Environmental Sciences / Aquatic Sciences PO BOX 65 00014 University of Helsinki Finland	Not yet published	n/i	AMBER	
Benthic oxygen and nutrient exchange at sediment-water interface in the Curonian lagoon / 2009	Benthic oxygen and nutrient exchange at sediment-water interface in the Curonian lagoon during 2009	Total oxygen uptake, nutrient flux, denitrification, sediments, pore water, Curonian lagoon	Intact core incubation in the laboratory at the ambient conditions, rates umol / m ² /h Pore water inorganic nutrient analysis, concentration umol / L	Curonian lagoon	Spatial extension: Pore waters from 0-10 cm sediment depth Spatial resolution: Several stations along depth gradient and different total organic	2009	Seasonally	n/i	December 2010	December 2010	On request from the contact	Ph. sutdent, Mindaugas Zilius Coastal Reserch and Planning Institute Klaipeda University H. Manto 84, LT 92294 e-mail mindaugas@corpi.ku.lt	Not yet published	n/i	AMBER	
Meta-data-set: AMBER SP B4-B6	Major element, trace metal, and nutrient data of pore water and groundwater seepage at Hel peninsula (Gdansk Bay). First sampling campaign from 24.03.2009-26.03.2009	Groundwater discharge, pore water, major and trace elements, nutrients, Gdansk Bay	About 20 parameters	SE Baltic Sea, Gdansk Bay	Spatial extension: Transect of about 100 m length at the beach of Hel peninsula, water depth about 1 m Spatial resolution: Pore waters from 0-20 cm sediment	24.03.2009-26.03.2009	Selective sampling	Geochemical analyses	14. May 2009	n/i	On request from the contact	Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: olaf.dellwig@io-warnemuende.de	Data available from contact person	no	AMBER	B4-B6
Meta-data-set: AMBER B4-B6	Transects in Puck Bay/Poland were sampled for salinity, alkalinity, major elements, trace elements, nutrients, S species, C and S isotopes in pore water, seawater and sediment to identify possible sites of groundwater discharge	Groundwater discharge, pore water, sediment, major and trace elements, nutrients, Puck Bay	About 20 parameters	SE Baltic Sea, Bay of Puck	Spatial extension: 54°33.07' – 54°38.61' N; 18°37.03' – 18°47.01' E Spatial resolution: Pore waters from 0-35 cm sediment depth	23.06.2009 - 30.06.2009	Selective sampling	Geochemical analyses	July 2009	August 2009	On request from the contact	Dr. Olaf Dellwig and Susann Vogler IOW Seestrasse 15 D-18119 Rostock Email: olaf.dellwig@io-warnemuende.de; susann.vogler@io-warnemuende.de	Data available from contact person	no	AMBER	B4-B6
Meta-data-set: AMBER SP B4-B6	Major elements, trace metals, methane and nutrient data of pore water and groundwater seepage and sediments (one core influenced by groundwater, one core not influenced) at Hel peninsula (Puck Bay/Poland). Pore water samples obtained with groundwater lances. Second sampling campaign from 31.08.2009 - 04.09.2009	Groundwater discharge, pore water, major and trace elements, nutrients, methane, Puck Bay	About 20 parameters	SE Baltic Sea, Puck Bay	Spatial extension: Transects of seepage of about 100 m length at the beach of Hel peninsula, water depth about 1 m; two locations sampled with groundwater lances Spatial resolution: Pore waters from 0-24 cm sediment depth	31.08.2009-04.09.2009	Selective sampling	Geochemical analyses	29.9.2009	n/i	On request from the contact	Dr. Olaf Dellwig and Susann Vogler IOW Seestrasse 15 D-18119 Rostock Email: olaf.dellwig@io-warnemuende.de susann.vogler@io-warnemuende.de	Data available from contact person	no	AMBER	B4-B6

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parameters in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
Meta-data-set: Groundwater sampling Hel Peninsula/ Poland from 02.11.05-11.09	Major elements, trace metals, nutrient data and isotopic data ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$, $\delta^{13}\text{C}-\text{DIC}$, $\delta^{34}\text{S}$, SO_4 , $\delta^{34}\text{S}-\text{H}_2\text{S}$) of pore water and groundwater seepage and sediments (one site influenced by groundwater, one site not influenced) at Hel peninsula (Puck Bay/Poland). Pore water samples were obtained with groundwater lances at groundwater impacted and less impacted site. Sampling campaign from 02.11.2009 - 05.11.2009	Groundwater discharge, pore water, major and trace elements, nutrients, Puck Bay	About 20 parameters	SE Baltic Sea, Puck Bay	Spatial extension: Transects of seepage of about 100 m length at the beach of Hel peninsula, water depth about 1 m; two locations sampled with groundwater lances Spatial resolution: Pore waters from 0-32 cm sediment depth	02.11.2009 - 05.11.2009	Selective sampling	Geochemical and isotope analyses	1.12.2009	24.6.2011	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de olaf.dellwig@io-warnemuende.de	Data available from contact person	n/i	AMBER	B4-B6
Sampling campaign from 27.02.2010 - 01.03.2010/ Poland (Hel Peninsula)	Major elements, trace metals, methane and nutrient data of pore water, groundwater seepage and sediments (one site influenced by groundwater, one less influenced) at Hel peninsula (Puck Bay/Poland). Pore water samples obtained with groundwater lances at groundwater impacted and less impacted site. Discrete snow and different well waters were taken for geochemical and stable isotope analyses ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$, $\delta^{13}\text{C}-\text{DIC}$).	Groundwater discharge, pore water, major and trace elements, nutrients, methane, O- and H-isotopes, Puck Bay	About 20 parameters	SE Baltic Sea, Puck Bay	Spatial extension: Transects of seepage of about 100 m length at the beach of Hel peninsula, water depth about 1.5 m; two locations sampled with groundwater lances, two wells sampled for biogeochemical data and isotopic data (2 and 170 m depth) Spatial resolution: Pore waters from 0-28 cm sediment depth (pore water lances)	27.02.2010 - 01.03.2010	Selective sampling	Geochemical and stable isotope analyses	16.8.2010	24.6.2011	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de olaf.dellwig@io-warnemuende.de	Data available from contact person	n/i	AMBER	B4-B6
Meta-data-set: Groundwater sampling Hel Peninsula/ Poland from 05.05 - 08.05.2010	Major elements, trace metals, radium and nutrient data of sea water, pore water and groundwater seepage and sediments (one site influenced by groundwater, one less influenced) at Hel peninsula (Puck Bay/Poland). Additionally seepage rates were measured by seepage meters. Pore water samples obtained with groundwater lances on groundwater impacted, less impacted and not impacted sites. One well water sample was taken for isotopic and geochemical analyses ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$, $\delta^{13}\text{C}-\text{DIC}$).	Groundwater discharge, pore water, major and trace elements, nutrients, radium, O- and H-isotopes, seepage rates, Puck Bay	About 20 parameters	SE Baltic Sea, Puck Bay	Spatial extension: Transects for groundwater sampling and measurement of seepage rates of about 30 m length along the beach of Hel peninsula, water depth about 1.5 m; three locations sampled with groundwater lances Spatial resolution: - pore waters from 0-40 cm sediment depth (groundwater lances) - transect for geochemical data from 0-32 cm depth	05.05.2010 - 08.05.2010	Selective sampling	Geochemical and isotope analyses	19.8.2010	24.6.2011	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de olaf.dellwig@io-warnemuende.de	Data available from contact persons	n/i	AMBER	B4-B6
Meta-data-set: Groundwater sampling Hel Peninsula/ Poland from 30.09. - 07.10.2010	Major elements, trace metals, radium, tritium and nutrient data of sea water, pore water and groundwater seepage and sediments (one site influenced by groundwater, one less influenced) at Hel peninsula (Puck Bay/Poland). Additionally, seepage was sampled from benthic seepage-meters. Seepage rates of the groundwater compounds were measured with benthic chambers seepage meter mode. Pore water samples were additionally obtained with groundwater lances on groundwater impacted and less impacted sites. Two well water samples from different aquifers were taken for isotopic and geochemical analyses ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$, $\delta^{13}\text{C}-\text{DIC}$). The temperature field of the surface sediments was recorded via temperature profiles measured with lances.	Groundwater discharge, pore water, major and trace elements, nutrients, tritium, Puck Bay	About 20 parameters	SE Baltic Sea, Puck Bay	Spatial extension: Transects of seepage and geochemical data of about 30 m length at the beach of Hel peninsula, water depth about 1.5 m; three locations sampled with groundwater lances Spatial resolution: - pore waters from 0-40 cm sediment depth (groundwater lances) - transect for geochemical data from 0-30 cm depth	30.09.2010 - 07.10.2010	Selective sampling	Geochemical analyses	25.10.2010	24.6.2011	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de olaf.dellwig@io-warnemuende.de	Data available from contact persons	n/i	AMBER	B4-B6
Meta-data-set: Groundwater sampling Meschendorf near Kühlungsborn/ Germany (17.02. and 19.-20.04.2011) SP B4-5	Samples for major elements, trace metals, nutrients and stable isotopes ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$, $\delta^{13}\text{C}-\text{DIC}$) in sea water and pore water were taken. Seepage rates of a groundwater seep on the beach were measured in-situ. Temperature profiles were also recorded directly on the beach with temperature lances. Pore water samples were obtained via PEEK-lances	Groundwater discharge, pore water, major and trace elements, nutrients, seepage rate	About 20 parameters	Southern Baltic Sea	Transect of seepage water of about 5 m length at the beach of Meschendorf Spatial resolution: - pore waters from 0-15 cm sediment depth (PEEK-lances)	17.02.2011 and 19.-20.04.2011	Selective sampling	Geochemical and stable isotope analyses	28.6.2011	n/i	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de olaf.dellwig@io-warnemuende.de	Data available from contact persons	n/i	AMBER	B4-B6
Meta-data-set: Groundwater sampling Meschendorf near Kühlungsborn/ Germany (30.6.2011) SP B4-5	Samples for major elements, trace metals, nutrients and stable isotopes ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$, $3\text{H}-\text{H}_2\text{O}$) in groundwater escaping on the beach were taken. Temperature and pH were measured in-situ.	Groundwater discharge, pore water, major and trace elements, nutrients, seepage rate	About 20 parameters	Southern Baltic Sea	Spatial extension: Ground water spring at the beach of Meschendorf Spatial resolution: - surface water (syringes)	30.6.2011	Selective sampling	Geochemical and stable isotope analyses	30.6.2011	n/i	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de	Data available from contact persons	n/i	AMBER	B4-B6
Metadata-set of sampling campaign for sub-projects B 4-5 from 21.06.-22.06.2010 in Szczecin Lagoon/Poland	Geochemical and isotope analyses: Major elements, trace metals, nutrient data and stable isotopes ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$) of sea water, pore water and sediments in the Polish part of Szczecin Lagoon. Pore water samples obtained from sediment cores via application of rhizones.	Groundwater discharge, geochemical characteristics, sediment cores, pore water, major and trace elements, nutrients, O- and H-isotopes, Szczecin Lagoon	About 20 parameters	Polish Part of Szczecin Lagoon	Spatial extension: Transects of geochemical data of about 10 km in Szczecin Lagoon, water depth about 6 m, four locations sampled for sediment cores Spatial resolution: - water column: 0-6 m - pore water from sediment 0-40 cm	21.06.2010 - 22.06.2010	Selective sampling	Geochemical Analyses	23.8.2010	n/i	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de olaf.dellwig@io-warnemuende.de	Data available from contact persons	n/i	AMBER	B4-B5
Sampling Campaign for AMBER sub-projects B 4-5 from 26.04.-28.04.2011 around Puck Bay	Major elements, trace metals, nutrient and isotope data ($\delta^{18}\text{O}-\text{H}_2\text{O}$, $\delta\text{D}-\text{H}_2\text{O}$) of well (groundwater) and river water. Further samples were taken vor $\delta^{13}\text{C}-\text{DIC}$ and $\delta^{34}\text{S}-\text{SO}_4$ measurements to be finished until fall 2011.	Puck Bay; groundwater; Cretaceous, Tertiary and Quaternary aquifers; stable O- and H-isotopes; major and trace elements	About 20 parameters	SE Baltic Sea, Puck Bay, N Poland.	Spatial extension: Sampling of wells and rivers in the area of Puck Bay and Hel Peninsula well depth: 16-178 m from relevant aquifers of different geological ages	27.4.2011	Selective sampling	Geochemical and stable isotope analyses	10.5.2011	28.6.2011	On request from the contact	Prof. Dr. Michael E. Böttcher and Dr. Olaf Dellwig IOW Seestrasse 15 D-18119 Rostock Email: michael.boettcher@io-warnemuende.de	Data available from contact persons	n/i	AMBER	B4-B5

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Fauna in the groundwater discharge area	Objective: Macrofauna and Meiofauna - abundance, taxonomical composition, seasonal pattern. General description of the data set Results of the benthic fauna research in the shallow area of the Puck Bay (south Baltic), comparison of the two sites, first with direct and constant groundwater seepage, second without the disturbance.		6 replicates for meiofauna analyses (3.6 cm diameter Plexiglas's core) in 4 layers (0-5, 5-10, 10-15 and 15-20 cm), identification to major groups (higher taxa) 6 replicates for macrofauna analyses (14 cm diameter Plexiglas's core) to at least 15 cm depth, identification to species level 1 replicate for sediment analyses (3.6 cm diameter Plexiglas's core) in 4 layers (0-5, 5-10, 10-15 and 15-20 cm), granulometry analysis 3 replicates for permeability measurements	Puck Bay (south Baltic), Hel Peninsula	Samples were collected in two sites, first called "impacted" (with fresh groundwater outflow), second "non impacted" (without fresh water impact), according to the regimen set out below - March 2009 - September 2009 - November 2009 (additional sampling) - March 2010 - May 2010 (additional sampling) - October 2010								More information: http://www.io-warnemuende.de/tl_files/project/amber/metadaten/Metadatenbank_MS_M12_4a-Dateien/Fauna.htm		AMBER	66
Contaminants in eelpout	Contaminants levels in eelpouts from the Baltic sea. Data origin from data generated within the BALCOFISH project.	Baltic Sea, contaminants, eelpout. Species: Zoarces viviparus, eelpout (viviparous blenny)	Dioxins; Furans; Coplanar PCBs; PBDEs; organotins; metals; phenols; PFCs. Supplementary parameters: Lipid content; dry weight content	Swedish west coast (3 stations) Swedish east coast (3 stations) Danish Belt Sea (3 stations) German Baltic Sea (3 stations) Eastern Baltic Sea (4 stations)		2009-2010		QA on analyses for each contaminant group is reported	December, 2010.	September 2011	Restricted to BALCOFISH for now, some data shared with BEAST	Ander Bignert, Swedish Museum of Natural History, Sweden, E-mail: anders.bignert@nrm.se Lars Forlin, Göteborg University, Sweden, E-mail: lars.forlin@zool.gu.se Jakob Strand, Aarhus University, Dept. Bioscience, E-mail: jak@dmu.dk	Aarhus University, Dept. Bioscience. E-mail: bonushaz@dmu.dk		BALCOFISH	1
Biological effects data for in eelpout	Eelpout biometry, Reproductive success, biomarkers, contaminants. Data origin from data generated within the BALCOFISH project and data submitted from national monitoring databases in Denmark and Sweden	Baltic Sea, reproductive effects, endocrine disruption, biomarkers. Species: Zoarces viviparus, eelpout (viviparous blenny)	ICES Parameter groups for biological effect techniques, specified according to existing ICES code lists, with suggestions to additional codes. See Appendix 1. Supplementary parameters: Salinity Water temperature	Swedish west coast (4 stations) Swedish east coast (4 stations) Botniah Bight (2 stations) Danish Belt Sea (20 stations) German Baltic Sea (3 stations) Gulf of Riga (2 stations)		Often 2 data series pr. year (monitoring stations), but also isolated collections from e.g. cruises. Min. to max-date: "2003-10-24 – 2010-12-10"		For all parameters except length/weight a reference to used protocol (ICES code=REFSK) and quality assurance (ICES code=ICCOD) may have been submitted. This was not mandatory but has been filled out for many parameters	Database created January 2010, but earlier data imported.	December 2011	BALCOFISH for now, in 2012 eelpout data for some of reported parameters are intended to be public available after submission to ICES database	Lars Forlin, Göteborg University, Sweden, E-mail: lars.forlin@zool.gu.se Jakob Strand, Aarhus University, Dept. Bioscience, E-mail: jak@dmu.dk	Aarhus University, Dept. Bioscience. E-mail: bonushaz@dmu.dk		BALCOFISH	1
Compilation of existing CO2/carbon data			dissolved total CO2	Eastern Gotland sea, station BY 15	Depth resolution: 25m	2003-2007	about 3 months	n/i			On request from the contact person	Dr. Bernd Schneider, Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde, bernd.schneider@io-warnemuende.de	Baltic-C database, more detailed metadata at www.baltic-research.eu/baltic-c/metadata/O10-Compilation%20of%20CO2data.pdf		Baltic-C	2
Model forcing: Acid deposition to the CSIM model	Monthly data including deposition of oxidized sulphur and nitrogen, reduced nitrogen, chlorine and base cations. The data are derived as input to the catchment nutrient model CSIM.	Baltic Sea catchment, acid deposition, sulphur, nitrogen, chloride, base cations, sodium, magnesium, potassium, calcium, CSIM, EMEP, EDGAR, HYDE	wet and dry deposition of oxidized sulphur and nitrogen, reduced nitrogen, and wet deposition of base cations and chloride.	Baltic Sea catchment area in rectangular box	Gridded: 50 x 50 km for sulphur and nitrogen and 1° x 1° for other compounds.	1960 - 2006	monthly	The construction of the data set is presented and evaluated in Carlsson et al. (2010).	September 2009	spring 2010	On request from the contact person	Dr. Björn Carlsson, Uppsala University, Department of Earth Sciences, Villavägen 16, SE-752 36 Uppsala, Sweden, Email: Bjorn.Carlsson@met.uu.se; Dr. Anna Rutgersson, Uppsala University, Department of Earth Sciences, Villavägen 16, SE-752 36, Uppsala, Sweden, Email: Anna.Rutgersson@met.uu.se	Uppsala University, Department of Earth Sciences, Villavägen 16, SE-752 36 Uppsala, Sweden Data for the period 1990–2006 are modelled (acid deposition) by the EMEP transport model (www.emep.int/OpenSource/index.html) or interpolated measurements (chloride, base cations, precipitation and pH) within the EMEP co-operative programme (http://tarantula.niu.no/projects/ccc/emepdata.html). For the period 1960–1989 acid deposition data are constructed from emissions reported by EDGAR-HYDE (www.mnp.nl/edgar/model/). Precipitation for this period is given by the average monthly fields for the 1990–2006 period. Chloride and base cations are assumed constant with the average monthly fields from the 1990–2006 period.	Baltic-C	5	
Model forcing: Acid deposition to the PROBE-Baltic Model	Monthly data including deposition of oxidized sulphur and nitrogen, reduced nitrogen, pH in precipitation and atmospheric CO2 concentration. The data are derived as input to the ocean model PROBE-Baltic	Baltic Sea, acid deposition, sulphur, nitrogen, pH, atmospheric carbon dioxide concentration, PROBE-Baltic	dry and wet deposition of oxidized sulphur and nitrogen, reduced nitrogen and pH in precipitation. The originally gridded fields are averaged for each basin. CO2 is represented by a station in southern Baltic Seas	Baltic Sea including Kattegat, Belt Seas and Øresund	13 basins in the Baltic Sea	1960–2006	monthly	The construction of the data set is presented and evaluated in Carlsson et al. (2010).	September 2009	spring 2010	On request from the contact person	Dr. Björn Carlsson, Uppsala University, Department of Earth Sciences, Villavägen 16, SE-752 36 Uppsala, Sweden, Email: Bjorn.Carlsson@met.uu.se; Dr. Anna Rutgersson, Uppsala University, Department of Earth Sciences, Villavägen 16, SE-752 36, Uppsala, Sweden, Email: Anna.Rutgersson@met.uu.se	Uppsala University, Department of Earth Sciences, Villavägen 16, SE-752 36 Uppsala, Sweden Data for the period 1990–2006 are modelled (acid deposition) by the EMEP transport model (www.emep.int/OpenSource/index.html). Precipitation is taken from interpolated measurements within the EMEP co-operative programme (http://tarantula.niu.no/projects/ccc/emepdata.html). For the period 1960–1989 acid deposition data are constructed from emissions reported by EDGAR-HYDE (www.mnp.nl/edgar/model/). Precipitation for this period is given by the average monthly fields for the 1990–2006 period. The pH in the precipitation is calculated from concentrations of base cations, chloride, oxidised sulphur and nitrogen and ammonia from the interpolated EMEP measurements, using a simple model. Chloride and base cations are assumed constant with the average monthly fields from the 1990–2006 period.	Baltic-C	5	
pCO2, temperature and salinity data from the FINNMAID VOS line	pCO2, temperature and salinity data from the FINNMAID VOS line	Baltic Sea, ship of opportunity observations, pCO2, temperature, salinity, FINNMAID VOS	pCO2, surface water temperature, surface water temperaturesalinity	Baltic Sea transect: Mecklenburg Bight - Gulf of Finland	1 - 2 nautical miles	2003 - 2008	2-3 days				restricted only for members of the project consortium, till 2012	Dr. Bernd Schneider, Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde, bernd.schneider@io-warnemuende.de	Baltic-C data base and are available through Dr. Bernd Schneider, Baltic Sea Research Institute Warnemuende, Germany		Baltic-C	2
River inflow of alkalinity, pH, total organic carbon, total inorganic carbon, main salinity ions	Monthly data (1990-2008) on input of parameters governing C-balance in the Baltic	River inflow, Baltic Sea, alkalinity, inorganic carbon, organic carbon	River discharge: alkalinity (mmol/kg), total inorganic carbon (mg/kg), pH (freshwater scale, temperature °C, Na (mg/l), K (mg/l), Ca (mg/l), Mg (mg/l), Cl (mg/l), SO4 (mg/l), SiO2 (mg/l). Monthly average flow	Baltic Sea Drainage area	Riverwise data	January 1990 - December 2008	1 month	National requirements	2010		Open	Dr. Matti Perttälä, Finnish Meteorological Institute, matti.perttala@fmi.fi	ftp://ftp.fmi.fi	n/i	Baltic-C	3
Baltic_C_MarineData: Cruise ARANDA 2009 winter	Data set of total CO2, total alkalinity, pCO2, pH, O2, H2S, fluorescence, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Baltic Sea from the Kattegat to the Bothnian Bay	Baltic Sea, vertical profiles, total CO2, alkalinity, nutrients, pH	Temperature, salinity, total alkalinity, total CO2, pCO2, pH, O2, H2S, NH4, NO3, NO2, PO4, SiO4, total N, total P, fluorescence	Baltic Sea (Kattegat to Gulf of Bothnia, Gulf of Finland)	Spatial extension: Longitude: 11.6 – 28.1 E Latitude: 54.7 – 65.4 N Spatial resolution: Horizontal see station map Vertical: every 5 to 20m from surface to bottom (total alkalinity and total CO2 in some cases only)	12.01. – 06.02.2009	Usually one vertical profile per station during the cruise		06/2009 Last update: 01/2010		On request from the contact.	Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	Data are stored in the Baltic-C data base and are available through the contact person;		Baltic-C	2
Baltic_C_MarineData: Research Vessel Cruises	Data set of dissolved inorganic carbon, total alkalinity, CO2 partial pressure, pH, O2, H2S, nutrients, fluorescence, temperature and salinity from vertical profiles from several stations of the whole Baltic Sea from the Kattegat to the Bothnian Bay. The data were collected on several cruises between June 2008 and July 2010.	Baltic Sea, vertical profiles, dissolved inorganic carbon, alkalinity, pH	Data and arrays: Parameter Unit Uncertainty T = temperature °C ± 0.005 °C S = salinit ± 0.01 AT = total alkalinity µmol/kg ± 5 µmol/kg CT = total CO2 (in fact = DIC, unfiltered samples) µmol/kg ± 2 µmol/kg pCO2 = partial pressure of CO2 µatm ± 5 µatm pH (NBS scale) ± 0.01 O2 = O2 concentration (WINKLER) µmol/l ± 1µmol/l O2 satur. = percent of O2 saturation level % ± 0.1 % H2S = H2S concentration µmol/l ± 1 µmol/l Fluor = fluorescence measurements NH4 = ammonium concentration µmol/l ± 0.1 µmol/l NO3NO2 = sum of nitrate and nitrite concentrations µmol/l ± 0.12 µmol/l NO3 = nitrate concentration µmol/l ± 0.1 µmol/l NO2 = nitrite concentration µmol/l ± 0.02 µmol/l PO4 = phosphate concentration µmol/l ± 0.02 µmol/l SiO4 = silicate concentration µmol/l ± 0.1 µmol/l totN = total nitrogen µmol/l ± 0.5 µmol/l totP = total phosphor µmol/l ± 0.1 µmol/l Uncertainties are due to scientific criteria	Baltic Sea	Spatial extension: Longitude: 10.3 – 28.0 E Latitude: 54.3 – 65.7 N Spatial resolution: Sampling stations in the main basins of the Baltic Sea and additional stations on transects between them Vertical: every 5 to 20m from surface to bottom	One summer 2008 – summer 2010	18.06. – 14.07.2008 12.01. – 06.02.2009 26.03. – 07.04.2009 03.08. – 10.08.2009 28.08. – 08.09.2009 11.01. – 04.02.2010 09.08. – 12.08.2010 30.06. – 12.07.2010		06/2009 Last update: 12/2010		On request from the contact.	Dr. Bernd Schneider and Dr. Annetkatrin Löffler Leibniz Institute for Baltic Sea Research Seestraße 15 D-18119 Warnemünde Email: bernd.schneider@io-warnemuende.de; annetkatrin.loeffler@io-warnemuende.de Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	Data are stored in the Baltic-C data base and are available through the contact persons		Baltic-C	2
Baltic_C_MarineData: Cruise MERIAN 2008 summer	Data set of total CO2, total alkalinity (in some cases), O2, H2S, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Baltic Sea from the Kattegat to the Bothnian Bay	Baltic Sea, vertical profiles, total CO2, alkalinity, nutrients	Temperature, salinity, total alkalinity, total CO2, O2, H2S, NH4, NO3, NO2, PO4, SiO4	Baltic Sea (Kattegat to Gulf of Bothnia, Gulf of Finland)	Spatial extension: Longitude: 10.8 – 26.6 E Latitude: 54.3 – 65.4 N Spatial resolution: Horizontal see station map Vertical: every 10 to 20m from	18.06.-14.07.2008	Usually one vertical profile per station during the cruise		06/2009 Last update: 01/2010		On request from the contact.	Dr. Bernd Schneider and Dr. Annetkatrin Löffler Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: bernd.schneider@io-warnemuende.de; annetkatrin.loeffler@io-warnemuende.de	Data are stored in the Baltic-C data base and are available through the contact person;		Baltic-C	2

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parametres in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
Baltic_C_MarineData: Compilation of existing CO2/carbon data	Baltic_C_MarineData: Compilation of existing CO2/carbon data	Total CO2, mineralization of organic matter	Temperature, salinity, nitrate/nitrite, phosphate, silicate, O2, H2S;	Eastern Gotland Sea, central station BY 15;	Depth resolution: 25 m;	2003–2007;	About 3 months;		Data were collected during Monitoring Cruises 2003–2007; Last update: August 2009;		On request from the contact.	Dr. Bernd Schneider Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: bernd.schneider@io-warnemuende.de;	Data are stored in the Baltic-C data base and are available through the contact person;		Baltic-C	2
Baltic_C_MarineData: Trend analysis for the surface water pCO2	Wintertime mean pCO2 data for the surface water in the eastern Gotland Sea, selected for a trend analysis;	Baltic Sea, pCO2 trend;	Year and mean winter pCO2;	Eastern Gotland Sea;	Spatial extension: Latitude: 56°–58° N; Spatial resolution: 1–2 nautical miles;	1996–2009;	Annual data;		Data were collected during January/February 1996, 1997, 2000, 2004, 2005, 2006, 2007, 2008 and 2009; Last update: 01/2010		On request from the contact.	Dr. Bernd Schneider Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: bernd.schneider@io-warnemuende.de;	Data are stored in the Baltic-C data base and are available through the contact person		Baltic-C	2
Baltic_C_Meta-Data-Set: New stratified sediment samples collected covering Arkona Deep, Bornholm Deep, Gotland Deep, coastal areas (D15, delivery	Data set of the properties of the collected sediments and pore water samples	Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity	longitude, latitude, salinity, temperature, Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity	Arkona Deep, Gotland Deep, Bornholm Deep, Gdansk Deep, southern coast of the Baltic Sea	sampling performed at Baltic Sea deeps and in near-shore zone of the southern Baltic; Spatial resolution: Baltic Sea deeps - 10 nautical miles, coastal areas - 25 nautical miles;	January 2009, March 2009, April 2009, October 2009;			April 2009; Last update: December 2010;		On request from the contact.	Prof. Janusz Pempkowiak Institute of Oceanology PAS ul. Powstancow Warszawy 55 81-712 Sopot e-mail: pempa@iopan.gda	Data are available through the contact person;		Baltic-C	4
Baltic_C_Meta-Data-Set: Mineralization rates at the sediment water interface and in the deep water (D16, delivery month 12)	Data set of calculated mineralization rates at the sediment water interface	Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, prosiy, pCO2, pH, Alktot	longitude, latitude, salinity, temperature, Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, prosiy, pCO2, pH, Alktot	Gdansk Deep, Gotland Deep;	P1 station, Gotland Deep; Spatial resolution: P1 station, BY15 station;	April 2010;			May 2009, last update December 2010		On request from the contact.	Contact person: Prof. Janusz Pempkowiak Dr. Bernd Schneider Institute of Oceanology PAS Leibniz Institute for Baltic Sea Research ul. Powstancow Warszawy 55 Seestr. 15 D-18119 Warnemünde 81-712 Sopot e-mail: bernd.schneider@io-warnemuende.de e-mail: pempa@iopan.gda	Data are available through the contact person;		Baltic-C	4
Baltic_C_Meta-Data-Set: Collected sediment cores analysed (D18, delivery month 18)	Data set of the properties of the collected sediments and pore water samples	Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity;	longitude, latitude, salinity, temperature, Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity;	Arkona Deep, Gotland Deep, Bornholm Deep, Gdansk Deep, Gulf of Bothnia, southern coast of the Baltic Sea;	sampling performed at Baltic Sea deeps and in near-shore zone of the southern Baltic; Baltic Sea deeps - 10-20 nautical miles, coastal areas - 20-30 nautical miles;	January 2009, March 2009, May 2009, October 2009, April 2010, June 2010;			April 2009, last update December 2010		On request from the contact.	Prof. Janusz Pempkowiak Institute of Oceanology PAS ul. Powstancow Warszawy 55 81-712 Sopot e-mail: pempa@iopan.gda	Data are available through the contact person;		Baltic-C	4
Baltic_C_Meta-Data-Set: Mineralisation rates established for a range of environmental conditions (D19, delivery month 18)	Data set of the calculated mineralization rates for different sediment types	Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity	longitude, latitude, salinity, temperature, Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity;	Arkona Deep, Gotland Deep, Bornholm Deep, Gdansk Deep, Gulf of Bothnia, southern coast of the Baltic Sea;	sampling performed at Baltic Sea deeps and in near-shore zone of the southern Baltic; Spatial resolution: Baltic Sea deeps - 10-20 nautical miles, coastal areas - 20-30 nautical miles;	January 2009, March 2009, May 2009, October 2009, April 2010, June 2010;			April 2009, last update December 2010		On request from the contact.	Prof. Janusz Pempkowiak Institute of Oceanology PAS ul. Powstancow Warszawy 55 81-712 Sopot e-mail: pempa@iopan.gda	Data are available through the contact person;		Baltic-C	4
Baltic_C_Meta-Data-Set: Loads of carbon deposited to sediments and return flux of carbon from sediments for the entire Baltic Sea established (D20, delivery	Data set of the calculated carbon loads to the bottom sediments and carbon return flux from sediments to water column	Corg accumulation rates, DOC return flux, DIC return flux, 210Pb, 137Cs, humidity, loss on ignition, porosity	longitude, latitude, salinity, temperature, Corg, DOC, DIC, 210Pb, 137Cs, humidity, loss on ignition, porosity;	Arkona Deep, Gotland Deep, Bornholm Deep, Gdansk Deep, Gulf of Bothnia,;	sampling performed at Baltic Sea deeps; Spatial resolution: Baltic Sea deeps - 5-20 nautical miles, coastal areas - 15-30 nautical miles;	January 2009, March 2009, May 2009, October 2009, April 2010, June 2010;			April 2009, last update December 2010		On request from the contact.	Prof. Janusz Pempkowiak Institute of Oceanology PAS ul. Powstancow Warszawy 55 81-712 Sopot e-mail: pempa@iopan.gda	Data are available through the contact person;		Baltic-C	4
Baltic_C_MarineData: Cruise MERIAN 2008 summer	Data set of total CO2, total alkalinity (in some cases), O2, H2S, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Baltic Sea from the Kattegat to the Bothnian Bay	Baltic Sea, vertical profiles, total CO2, alkalinity, nutrients	Temperature, salinity, total alkalinity, total CO2, O2, H2S, NH4, NO3, NO2, PO4, SiO4	Baltic Sea (Kattegat to Gulf of Bothnia, Gulf of Finland	Spatial extension: Longitude: 10.8–26.6 E Latitude: 54.3–65.4 N Spatial resolution: Horizontal see station map Vertical: every 10 to 20m from surface	8.06.-14.07.2008	Usually one vertical profile per station during the cruise		06/2009 Last update: 01/2010		On request from the contact.	Dr. Bernd Schneider and Dr. Annetkatrin Löffler Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: bernd.schneider@io-warnemuende.de; annetkatrin.loeffler@io-warnemuende.de	Data are available through the contact person;		Baltic-C	2
Baltic_C_MarineData: Seasonally resolved pCO2 fields for the entire Baltic Sea (to be completed under deliverable D06 after	Continuous surface water pCO2 measurements on a cargo ship	Surface water pCO2;	Longitude/latitude, pCO2, salinity, temperature, temperature difference between the measurement and in situ;	Baltic Proper;	Spatial extension: Mecklenburg Bight – Gulf of Finland; Spatial resolution: 1–2 nautical miles	2003–2008;	About 2 days;		Data are collected since 2003; Last update: December 31, 2010;		On request from the contact.	Dr. Bernd Schneider Leibniz Institute for Baltic Sea Research Seestr. 15 D-18119 Warnemünde Email: bernd.schneider@io-warnemuende.de;	Data are stored in the Baltic-C data base and are available through the contact person;		Baltic-C	2
Baltic_C_MarineData: Cruise ARANDA 2009 spring	Data set of total CO2, total alkalinity, pH, O2, H2S, fluorescence, temperature and salinity from vertical profiles from several stations of the central Baltic Sea and from the Gulfs of Bothnia, Finland and Riga	Baltic Sea, vertical profiles, total CO2, alkalinity, pH	Temperature, salinity, total alkalinity, total CO2, pH, O2, H2S, fluorescence	Central Baltic Sea, Gulf of Bothnia, Gulf of Finland, Gulf of Riga	Longitude: 19.0–24.3 E Latitude: 57.1–63.7 N Spatial resolution: Horizontal see station map Vertical: every 5 to 20m from surface to bottom (total alkalinity and total CO2 only from 5m and	26.03.–07.04.2009	Usually one vertical profile per station during the cruise		06/2009 Last update: 01/2010		On request from the contact.	Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	Data are stored in the Baltic-C data base and are available through the contact person;		Baltic-C	2
Baltic_C_MarineData: Cruise ARANDA 2009 summer	Data set of total CO2, total alkalinity, pH, O2, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Gulf of Finland (Baltic Sea)	Baltic Sea, vertical profiles, total CO2, alkalinity, nutrients, pH	Temperature, salinity, total alkalinity, total CO2, pH, O2, NH4, NO3, NO2, PO4, SiO4, total N, total P	Baltic Sea (Gulf of Finland)	Spatial extension: Longitude: 24.5–28.5 E Latitude: 59.5–60.3 N Spatial resolution: Horizontal see station map Vertical: every 5 to 20m from surface to bottom (total alkalinity and total CO2 only from 5m and	03.08.–10.08.2009	Usually one vertical profile per station during the cruise		12/2009 Last update: 01/2010		On request from the contact.	Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	Data are stored in the Baltic-C data base and are available through the contact person;		Baltic-C	2
Baltic_C Meta-data-set: Monthly river discharges into the Baltic Sea	Monthly river discharges of carbon-related compounds and main salinity ions in 1980–1998 into the Baltic Sea	Baltic Sea, river discharge	Data and arrays: Identification: River identification number Watershed identification number Country Parameters: ALK alkalinity mmol/l TIC total inorganic carbon mg/l TOC total dissolved organic carbon mg/l pH pH fresh water scale TEMP temperature °C Na sodium mg/l K potassium mg/l Ca calcium mg/l Mg magnesium mg/l Cl chloride mg/l SO4 sulphate mg/l SiO2 silicate mg/l flow monthly average flow m3/sec	Gulf of Finland, Gulf of Bothnia, Riga Bay, Baltic Proper	Spatial extension: The Baltic Sea Spatial resolution: Data by river	1980–1998	1 month				On request from the contact.	Matti Perttälä (matti.perttala@fmi.fi) Finnish Meteorological Institute/Marine section	ftp://ftp.fmi.fi	1. HELCOM discharge data: Finnish Environment Center www.ymparisto.fi/syke (contact: Antti Rälke <antti.raike@ymparisto.fi>) 2. Other data: Sweden: Miljöanalys www.ma.slu.se Finland: Finnish Environment Center www.ymparisto.fi/syke (contact: Antti Rälke <antti.raike@ymparisto.fi>) Estonia: Tallinn University of Technology www.ttu.ee (contact: Uille Leisk <ulle.leisk@ttu.ee>) Latvia: Latvian Environment, Geology and Meteorology Agency lvgma@lvgma.gov.lv (contact: Client Service <klientu.serviss@lvgma.gov.lv>) Lithuania: Environmental Protection Agency of Lithuania www.aaa.am.lt (contact: Audrone Pumpulyte <a.pumpulyte@aaa.am.lt>) Poland: Janusz Pempkowiak, Institute of Oceanography, Polish Academy of Sciences IOPAN <pempa@iopan.gda.pl>	Baltic-C	3
Baltic_C Meta-data-set: Surface pCO2 water data	Surface pCO2 data recorded on VOS FINNMAID	pCO2	Date/longitude/latitude/pCO2/temperature/salinity	Mecklenburg Bight, Baltic Proper, western Gulf of Finland	Transects between Lübeck and Helsinki Spatial resolution: 1–2 nautical miles	Continuously since Jun 2003	2–3 transects per week			2009	On request from the contact.	Bernd Schneider, Leibniz Institute for Baltic Sea Research (IOW) bernd.schneider@io-warnemuende.de	Baltic-C data base		Baltic-C	2
Baltic_C Meta-data-set: Measurements taken at the Östergarnsholm field station for one year	Hourly measurements during one year taken at the Östergarnsholm field station. Data include micrometeorological parameters, pCO2 in water and air and sea surface temperature. For specific wind directions the data represent open sea conditions. Additional data is also available on request.	Micrometeorological measurements, buoy pCO2, Östergarnsholm field station.	Asci data of temperature, wind, pressure, relative humidity, insolation, turbulent heat flux, pCO2 in atmosphere and ocean and water temperature.	Östergarnsholm field station, Baltic Proper	Point measurements	2009.	Hourly data.		During 2009. Last update: January, 2011.		On request from the contact.	Prof. Anna Rutgersson Uppsala University, Department of Earth Sciences Vilavägen 16 SE-752 36 Uppsala, Sweden Email: Anna.Rutgersson@met.uu.se	Data available by contact person	Site and type of data analysis is described in Rutgersson et al (2008), Rutgersson, A., M. Norman, B. Schneider, H. Pettersson, E., Sahle. The annual cycle of carbon-dioxide and parameters influencing the air-sea carbon exchange in the Baltic Proper. J. Mar. Syst., 74, 381-394. 2008	Baltic-C	5
Baltic_C_MarineData: Cruise ARANDA 2009 spring	Data set of total CO2, total alkalinity, pH, O2, H2S, fluorescence, temperature and salinity from vertical profiles from several stations of the central Baltic Sea and from the Gulfs of Bothnia, Finland and Riga	Baltic Sea, vertical profiles, total CO2, alkalinity, pH	Temperature, salinity, total alkalinity, total CO2, pH, O2, H2S, fluorescence	Central Baltic Sea, Gulf of Bothnia, Gulf of Finland, Gulf of Riga	Longitude: 19.0–24.3 E Latitude: 57.1–63.7 N. Horizontal see station map Vertical: every 5 to 20m from surface to bottom (total alkalinity only from 5m)	26.03.–07.04.2009	Usually one vertical profile per station during the cruise		Created: 06/2009. Last update: 01/2010		Data available from contact person	Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503	http://www.baltic-research.eu/baltic-c/metadata/Aranda2009_spring.pdf		Baltic-C	2

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parametres in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
BalticC_MarineData: Cruise ARANDA 2009 summer	Data set of total CO2, total alkalinity, pH, O2, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Gulf of Finland (Baltic Sea)	Data set of total CO2, total alkalinity, pH, O2, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Gulf of Finland (Baltic Sea)	Temperature, salinity, total alkalinity, total CO2, pH, O2, NH4, NO3, NO2, PO4, SiO4, total N, total P	Baltic Sea (Gulf of Finland)	Spatial extension: Longitude: 24.5 – 28.5 E Latitude: 59.5 – 60.3 N Spatial resolution: Horizontal see station map Vertical: every 5 to 20m from surface to bottom (total alkalinity and total CO2 only from 5m and bottom)	03.08. – 10.08.2009	Usually one vertical profile per station during the cruise		12/2009 Last update: 01/2010		Data available from contact person Contact person: Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	Data available from contact person Contact person: Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	http://www.baltex-research.eu/baltic-c/metadata/Aranda2009summer.pdf		Baltic-C	2
BalticC_MarineData: Cruise ARANDA 2009 winter	Data set of total CO2, total alkalinity, pCO2, pH, O2, H2S, fluorescence, nutrient concentrations, temperature and salinity from vertical profiles from several stations of the Baltic Sea from the Kattegat to the Bothnian Bay	Baltic Sea, vertical profiles, total CO2, alkalinity, nutrients, pH	Temperature, salinity, total alkalinity, total CO2, pCO2, pH, O2, H2S, NH4, NO3, NO2, PO4, SiO4, total N, total P, fluorescence	Baltic Sea (Kattegat to Gulf of Bothnia, Gulf of Finland)	Spatial extension: Longitude: 11.6 – 28.1 E Latitude: 54.7 – 65.4 N Spatial resolution: Horizontal see station map Vertical: every 5 to 20m from surface to bottom (total alkalinity and total CO2 in some cases only from 5m and bottom)	12.01. – 06.02.2009	Usually one vertical profile per station during the cruise		06/2009 Last update: 01/2010		Data available from contact person Contact person: Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	Data available from contact person Contact person: Dr. Matti Perttälä Finnish Meteorological Institute P.O. Box 503 FI-00101 Helsinki Email: matti.perttala@fmi.fi	http://www.baltex-research.eu/baltic-c/metadata/Aranda2009winter.pdf		Baltic-C	2
Cod reproductive volume in the Baltic Sea		Baltic Sea, cod, reproductive volume	cod "reproductive volume"	Baltic Sea: Bornholm Basin, Gdansk Basin, Gotland Basin	n/a	1964 - 2007	twice yearly				restricted to project consortium till 2012	Brian MacKenzie, brm@difres.dk, DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark	DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark		ECOSUPPORT	3
Sea surface temperature at Christiansø, Baltic Sea, Bornholm Basin		Baltic Sea, Bornholm Basin, Christiansø, sea surface temperature	sea surface temperature	Baltic Sea: Christiansø		1880 - 2003	quarterly and annual averages (original data are daily observations)				restricted to project consortium till 2012	Brian MacKenzie, brm@difres.dk, DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark	DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark		ECOSUPPORT	3
Sea surface temperature in Bornholm Basin		Baltic Sea, Bornholm Basin, sea surface temperature	sea surface temperature	Bornholm Basin	??	1923 - 2003	quarterly and annual				restricted to project consortium till 2012	Brian MacKenzie, brm@difres.dk, DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark	DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark		ECOSUPPORT	3
Sea surface temperature in the central Baltic Sea		Baltic Sea, sea surface temperature	sea surface temperature	Central Baltic Sea	??	1880-2005	quarterly and annual				restricted to project consortium till 2012	Brian MacKenzie, brm@difres.dk, DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark	DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark		ECOSUPPORT	3
Water temperature at halocline, Bornholm Basin, May		Baltic Sea, Bornholm Basin, water temperature, halocline, May	water temperature at halocline (45 - 65 m) May	Bornholm Basin	??	1955-2004	annual for month of May				restricted to project consortium till 2012	Brian MacKenzie, brm@difres.dk, DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark	DTU Aqua, Technical University of Denmark, Charlottenlund Castle, Jægersborg Alle 1, DK-2920 Charlottenlund, Denmark		ECOSUPPORT	3
Cod reproductive volume	Field observations of cod reproductive volume for validation of oceanographic-biochemical models and development of cod population models (volume of water in cod spawning areas with salinity and oxygen conditions that allow cod egg fertilisation and development)	Cod, reproductive volume, reproduction, salinity, oxygen, Baltic Sea	cod "reproductive volume"	Bornholm Basin, Gdansk Basin, Gotland Basin	basin scale	1964-2007	twice yearly	(applicable only for model-generated datasets): data are field observations	2009-2010		Public	DTU Aqua Contact: Dr. Brian MacKenzie National Institute for Aquatic Resources (DTU Aqua) Technical University of Denmark Email: brm@aqu.dtu.dk	DTU Aqua	Descriptions of the development of the data are in: Plikshs, M., Kalejs, M., and Grauman, G. 1993. The influence of environmental conditions and spawning stock size on the yearclass strength of the eastern Baltic cod. ICES 1993/J:22; MacKenzie, B. R., Hinrichsen, H., H., Plikshs, M., Wieland, K., Zerera, A. 2000. Quantifying environmental heterogeneity: estimating the size of habitat for successful cod <i>Gadus morhua</i> egg development in the Baltic Sea. Marine Ecology Progress Series 193: 143-156	ECOSUPPORT	3
Sea surface temperature data	Field observations of sea surface temperature from Bornholm Basin, southern Baltic Sea. Data are seasonal means derived from ship-of-opportunity measurements contained in ICES Hydrographic Database, and can be used for validation of oceanographic-biochemical models and development of fish and plankton population models	Temperature, surface, Baltic Sea	sea surface temperature	Bornholm Basin	basin scale	1923-2003	Seasonal and annual, based on original daily observations.	Data are field observations	2007		public	DTU Aqua Contact: Dr. Brian MacKenzie National Institute for Aquatic Resources (DTU Aqua) Technical University of Denmark Email: brm@aqu.dtu.dk	DTU Aqua	Descriptions of the development of the data are in: MacKenzie, B. R., Schiedek, D. 2007. Daily ocean monitoring since the 1860s shows record warming of northern European seas. Global Change Biology 13: 1335-1347 (doi:10.1111/j.1365-2486.2007.01360.x); MacKenzie, B. R., Schiedek, D. 2007. Long-term sea surface temperature baselines – time series, spatial covariation and implications for biological processes. J. Mar. Systems 68: 405-420. http://dx.doi.org/10.1016/j.jmarsys.2007.01.003 .	ECOSUPPORT	3
Sea surface temperature data	Field observations of sea surface temperature from Christiansø, southern Baltic Sea. Data are seasonal means derived from daily measurements from harbour monitoring and can be used for validation of oceanographic-biochemical models and development of fish and plankton population models.	Temperature, surface, Baltic Sea	Sea surface temperature	Bornholm Basin	basin scale	1880-2003	Seasonal, based on original daily observations.	Data are field observations.	2007		Public	DTU Aqua Contact: Dr. Brian MacKenzie National Institute for Aquatic Resources (DTU Aqua) Technical University of Denmark Email: brm@aqu.dtu.dk	DTU Aqua	Descriptions of the development of the data are in: MacKenzie, B. R., Schiedek, D. 2007. Daily ocean monitoring since the 1860s shows record warming of northern European seas. Global Change Biology 13: 1335-1347 (doi:10.1111/j.1365-2486.2007.01360.x); MacKenzie, B. R., Schiedek, D. 2007. Long-term sea surface temperature baselines – time series, spatial covariation and implications for biological processes. J. Mar. Systems 68: 405-420. http://dx.doi.org/10.1016/j.jmarsys.2007.01.003 .	ECOSUPPORT	3
Sea surface temperature data	Field observations of sea surface temperature from central Baltic Sea. Data are seasonal means derived from ship-of-opportunity measurements contained in Hadley Centre database, and can be used for validation of oceanographic-biochemical models and development of fish and plankton population models.	Temperature, surface, Baltic Sea	Sea surface temperature	Central Baltic Sea	basin scale	1880-2003	Seasonal and annual, based on original daily observations.	Data are field observations.	2007		Public	DTU Aqua Contact: Dr. Brian MacKenzie National Institute for Aquatic Resources (DTU Aqua) Technical University of Denmark Email: brm@aqu.dtu.dk	DTU Aqua	Descriptions of the development of the data are in: MacKenzie, B. R., Schiedek, D. 2007. Daily ocean monitoring since the 1860s shows record warming of northern European seas. Global Change Biology 13: 1335-1347 (doi:10.1111/j.1365-2486.2007.01360.x); MacKenzie, B. R., Schiedek, D. 2007. Long-term sea surface temperature baselines – time series, spatial covariation and implications for biological processes. J. Mar. Systems 68: 405-420. http://dx.doi.org/10.1016/j.jmarsys.2007.01.003 .	ECOSUPPORT	3
Sea temperature data	Field observations of sea temperature near halocline (depth-averaged for layer between 45-65 m) from Bornholm Basin, Baltic Sea. Data are monthly means derived from ship-of-opportunity measurements contained in ICES Hydrographic database, and can be used for validation of oceanographic-biochemical models and development of fish and plankton population models.	Temperature, surface, Bornholm Basin, Baltic Sea	Temperature averaged for depth layer 45-65 m.	Bornholm Basin, Baltic Sea	basin scale	1955-2004	Annual for month of May	Data are field observations	2004	2008	Public	DTU Aqua Contact: Dr. Brian MacKenzie National Institute for Aquatic Resources (DTU Aqua) Technical University of Denmark Email: brm@aqu.dtu.dk	DTU Aqua	Descriptions of the development of the data are in: MacKenzie, B. R., Horbowy, J., Köster, F. W. 2008. Incorporating environmental variability in stock assessment - predicting recruitment, spawner biomass and landings of sprat (<i>Sprattus sprattus</i>) in the Baltic Sea. Canadian Journal of Fisheries and Aquatic Sciences 65: 1334-1341; MacKenzie, B. R., Köster, F. W. 2004. Fish production and climate: sprat in the Baltic Sea. Ecology 85: 784-794	ECOSUPPORT	3
			sea surface temperature	: Christiansø		1880-2003	quarterly and annual (original data are daily observations)				On request from the contact.	BNI	BNI		ECOSUPPORT	3
			sea surface temperature	central Baltic Sea		1880-2005	quarterly and annual				On request from the contact.	BNI	BNI		ECOSUPPORT	3
			temperature near halocline (45-65 m)	Bornholm Basin		1955-2004	annual for month of May				On request from the contact.	BNI	BNI		ECOSUPPORT	3
Nutrient land loads			NH4, NO3, TN, PO4, TP, SiO4	Baltic Sea	Baltsem basins	1970-2006	Monthly (rivers and diffuse sources) and Annual (point sources)		2009		On request from the contact.	BNI	BNI		ECOSUPPORT	2
Atmospheric nutrient loads			NH4 and NO3, wet and dry deposition	Baltic Sea	Baltsem basins	1970-2006	Monthly		2009		On request from the contact.	BNI	BNI		ECOSUPPORT	2
Validation data set			S, T, O2, H2S, PO4, TP, NO3, NH4, TN, SiO4, Chl-a	Baltic Sea, selected stations	Single stations, standard depths	1970-2008	Weekly, monthly, annual, seasonal and average		2009		On request from the contact.	BNI	BNI		ECOSUPPORT	2
RCO-SCOB1	RCAO-ERA40; nutrient land loads and nutrient atmospheric loads; observed sea levels in Kattegat; observed stratification and nutrient concentrations in southeastern Skagerrak		S, T, O2-H2S, PO4, NH4, NO3, detritus, 3 autotrophs and zooplankton, benthic N and P	Baltic Sea including Kattegat	2 nautical miles, 83 vertical levels	1961-2007	2-daily outputs		2009		On request from the contact.	SMHI	SMHI	RCO-SCOB1, Meier et al. (2003), Eliola et al. (2009)	ECOSUPPORT	2
Airborne data are the result of a literature review conducted by FMI			NO3 and NH4 deposition, NOx and NH4 in air	Atmospheric influence area to Baltic Sea	scattered	1850-1960	scattered				On request from the contact.	SMHI	SMHI		ECOSUPPORT	1
High resolution age depth model for the past 6000 years	A dataset of interpolated ages dependent on sediment depth for key sites selected according to deliverable D1.1	Baltic Sea, Holocene, sediment, dating, chronostratigraphy, 14C dating, palaeomagnetic	Sediment depth (cm), ages in sidereal years (calendar years before present), confidence intervals, dated levels (including uncalibrated 14C ages and	20°15'0E, 57°23'0N	1cm (interpolated depth intervals)	AD 1950 to 6000 cal. yrs BP (calibrated to the radiocarbon calibration curve)	50 years (the average confidence interval)	Validated/checked by comparison with FENNOSTACK palaeomagnetic master curve	2011	2011	On request from the contact, restricted to project consortium 2009-2012	Ian Snowball, Department of Earth and Ecosystem Sciences, Lund University (ian.snowball@geol.lu.se) and/or Matthias Moros, Baltic Sea Research Institute Warnemünde, (matthias.moros@io-warnemuende.se)	Baltic Sea Research Institute, Warnemünde		INFLOW	WP1

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parametres in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
Sea surface temperature in the central Baltic Sea over the past 1000 years	This data set includes sea surface temperature reconstructions for four multi cores from the Eastern Gotland Basin and Northern Central Basin	Sea surface temperature, TEX86, Eastern Gotland Basin	Location, water depth, depth in core, TEX86-based reconstructed SST representing July – October average values	Eastern Gotland Basin: core 303600: 56° 55.02 N, 19° 19.98 E; core 370531: 57° 23.12 N, 20° 15.55 E, core 370540: 57° 17.04 N 20° 07.26 E - Northern Central Basin: core 377860: 58° 48.92 N 20° 25.17 E	1-3 cm (sampling resolution)	recent to c. 1000 cal BP	10 - 150 years	good	40679	40889	restricted to project consortium until 2013	Karoline Kable (karoline.kable@io-warnemuende.de)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Surface water salinity reconstructions based on diatoms study	Salinity reconstruction based on diatom "transfer function" method	salinity, diatoms, salinity reconstructions	diatom analyses, proxy-salinity	Baltic Sea: whole basin – surface samples; Baltic Sea: Gotland Deep – sediment cores	0.5 – 1.5 cm (sampling interval) surface samples; 0.3 – 1.5 cm (sampling interval)	recent to ca. 2000 cal yr BP; recent	50-150 years (=sampling interval)	good	7,2011	12,2011	restricted to project consortium until 2013	Andrzej Witkowski (witkowsk@univ.szczecin.pl)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Sea-ice diatom species GC370530	sea-ice diatom downcore abundance variability	sea ice, diatoms, Gotland Basin	Pauniella teniata; Fragilariopsis cylindrus abundance	Baltic Sea: Gotland Basin	0.3-1.5 cm (sampling interval)	recent to ca. 2000 cal yr BP	50 - 150 years	good	7,2011	12,2011	restricted to project consortium until 2013	Andrzej Witkowski (witkowsk@univ.szczecin.pl)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
87Sr/86Sr proxy salinity for southern Baltic Sea surface (0-30m) water	Salinity reconstruction based on 87Sr/86Sr isotope ratios in mollusk (mostly bivalve) carbonate from southern Baltic Sea sediment core material	salinity, strontium isotope, bivalve, carbonate	87Sr/86Sr isotope ratios, proxy-salinity	Baltic Sea: Mecklenburg Bay	2-40 cm (sampling interval)	recent to ca. 8700 cal yr BP	50-500 years (=sampling interval)	good; d18O reproducibility +/- 0.2permil, d13C reproducibility +/- 0.1 permil	40768	40816	restricted to project consortium until 2013	Laura Arppe (laura.arppe@helsinki.fi)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Oxygen and carbon isotope values of shallow water mollusk carbonate from the southern Baltic Sea	Salinity reconstruction based on 87Sr/86Sr isotope ratios in mollusk (mostly bivalve) carbonate from southern Baltic Sea sediment core material	temperature, salinity, oxygen isotope, carbon isotope, carbonate	d18O values, d13C values	Baltic Sea: Mecklenburg Bay	2-40 cm (sampling interval)	recent to ca. 8700 cal yr BP	50-500 years (=sampling interval)	good; d18O reproducibility +/- 0.2permil, d13C reproducibility +/- 0.1 permil	40729	40792	restricted to project consortium until 2013	Laura Arppe (laura.arppe@helsinki.fi)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Benthic foraminifera in Central Baltic	Reconstruction of Inflow variability and strength based benthic foraminifera counting in central Baltic Sea sediments	benthic foraminifera, Gotland Basin, Inflow, salinity	abundance of benthic foraminifera	Baltic Sea: Gotland Basin	1-1.5 cm (sampling interval)	~6000 cal yr BP to recent	50 years	good	October 2011	January 2012	restricted to project consortium until 2013	Matthias Moros (matthias.moros@io-warnemuende.de)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
87Sr/86Sr proxy salinity for central Baltic Sea deep water	Salinity reconstruction based on 87Sr/86Sr isotope ratios in mollusk (mostly bivalve) carbonate from central Baltic sediment core material	salinity, strontium isotope, bivalve, carbonate	87Sr/86Sr isotope ratios, proxy-salinity	Baltic Sea: Bornholm basin	1-80 cm (sampling interval)	recent to ca. 3800 cal yr BP	30-800 years (sampling interval)	good; within-measurement error mostly less than 14 ppm, between-run reproducibility 20 ppm (2σ), salinity estimate error +/- 0.5 psu (low resolution)	29.4.2011	40816	restricted to project consortium until 2013	Laura Arppe (laura.arppe@helsinki.fi)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Oxygen and carbon isotope values of deep water mollusk carbonate from the central Baltic Sea	Salinity reconstruction based on 87Sr/86Sr isotope ratios in mollusk (mostly bivalve) carbonate from central Baltic sediment core material	temperature, salinity, oxygen isotope, carbon isotope, carbonate	d18O values, d13C values	Baltic Sea: Bornholm basin	1-80 cm (sampling interval)	recent to ca. 3800 cal yr BP	30-800 years (sampling interval)	good; within-measurement error mostly less than 14 ppm, between-run reproducibility 20 ppm (2σ), salinity estimate error +/- 0.5 psu (low resolution)	40729	40792	restricted to project consortium until 2013	Laura Arppe (laura.arppe@helsinki.fi)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Sedimentary fabric logs	Depths of burrow-mottled, biodeformed and sharply laminated intervals in sediment cores	Laminated sediment, bioturbated sediment	Sediment fabric type	Baltic Sea: Gotland Deep and western Gulf of Finland	1 mm, core depth	~6000 cal yr BP to recent	±3 years	good	40786	40939	restricted to project consortium until 2013	Joonas Virtasalo (joonas.virtasalo@gtk.fi)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Burrow size and orientation measurements	Burrow sizes and orientation measured in X-radiographs of sediment cores	Biogenic sedimentary structures	Burrow diameter, angle from horizontal, length	Baltic Sea: Eastern Gulf of Finland	1 mm, core depth	~6000 cal yr BP to recent	±3 years	good	40787	40787	restricted to project consortium until 2013	Joonas Virtasalo (joonas.virtasalo@gtk.fi)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Loss on ignition data (Organic carbon content) of Baltic Sea long core sediments	Loss on ignition (LOI) data and organic carbon data of long cores material covering wide areas of the Baltic Sea. Reflect changes in primary productivity, degradation, redox stages	Loss on ignition, organic carbon, Baltic Sea	Loss on ignition data, Organic carbon data at selected core depths	Baltic Sea: Mecklenburgian Bight, Arkona Basin, Bornholm Basin, Gotland Basin, Northern Central Basin	1 cm sampling resolution for Loss on Ignition; organic carbon at selected depth intervals	~6000 cal yr BP to recent	variable depending on coring site	good	1.12.2011	40909	restricted to project consortium until 2013	Matthias Moros (matthias.moros@io-warnemuende.de)	http://www.gtk.fi/net2f/tp/		INFLOW	WP 1
Review, compilation and gap-analysis of existing biological and environmental data	The existing and available biological and environmental data from all three case-study regions have been reviewed and summarised into a Meta-data table.		biotic (Distribution, biomass, abundance and coverage of macrophyte, macroinvertebrate and fish species), abiotic (bathymetry, salinity, turbidity, exposure, temperature, nutrients, substrate type)	Lithuanian coast, East coast of Sweden, West coast of Sweden, SW coast of Finland including Åland Islands	varies from metres to 10-100 km	1990-2008	weekly to yearly sampling effort				restricted only for members of the project consortium		The metadata table is located on project computers. The original data are hosted by Martin Snickars at Åbo Akademi University (martin.snickars@abo.fi)	PREHAB	1	
Database of values of marine ecosystem services	A compilation of valuation results, 24 sources	valuation, marine ecosystem services	valuation of: Food provision, Raw materials, Gas and climate regulation, Disturbance prevention (flood and storm protection), Bioremediation of waste, Cultural heritage and identity, Cognitive benefits, Leisure and recreation, Feel good or warm glow (non-use benefits), Future unknown and speculative benefits, Resilience and resistance (life support), Biologically mediated habitat, Nutrient cycling	Baltic sea, examples from other seas and freshwaters	n/a	1990-2007	n/a		April, 2011		On request from the contact person	Markku Ollikainen, markku.ollikainen@helsinki.fi University of Helsinki	University of Helsinki, Department of Economics and Management	PREHAB	3	
Complementary field data for habitat modelling	Data collected in two coastal areas of the Baltic by three different methods: ROV videorecording, SCUBA diving transects, drop-camera	submerged plants, macroalgae, areal coverage	geographic coordinates, depth, sediment type, coverage (%) by plants and macroalgae	Archipelago Sea, coastal waters of Lithuania		2009-2010	n/a		July, 2011		On request from the contact person	Johanna Mattila (jmattila@abo.fi) at Åbo Akademi University	Åbo Akademi University	PREHAB	1	
List of goods & services provided by habitats and their distribution in study areas	The data set presents information on relevant ecosystem services (supporting, regulating, provisioning and cultural) provided by selected response variables used in ecosystem models, classified as individual species, biotopes and functions	ecosystem services, species, biotopes, biotope functions							May 20, 2010	Dec 22, 2011	On request from the contact	Markku Ollikainen, University of Helsinki, Department of Economics and Management	University of Helsinki (Department of Economics and Management), University of	PREHAB	3	
Input data for the NutRet and MESAW model for calculating retention of nutrients in surface water bodies	Data on land use, rivers and lakes area, river loads, river discharge point sources from Baltic NEST. Data were collected for calculating retention of N and P in surface water bodies	Baltic Sea drainage basin, nutrient retention, surface water bodies, rivers, lakes, wetlands, river systems, NutRet tool	Catchment area, agricultural area, wetland area, river length, lakes numbers and area. Yearly average data on discharge and loads. Nutrient retention	Baltic Sea drainage area	117 basins	1994-2006	yearly average load and discharge for the period 1994-2006. Retention given as long-term annual average	n/i	kesä.09	heinä.10	Input data of Baltic NEST property.	Christoph Humborg Baltic-NEST institute	Baltic NEST for input data. Retention estimates hold by Bioforsk	RECOCA	6	
Input catalogue on 83 rivers of the Baltic sea catchment		Baltic Sea catchment, river basins	RiverName, SubBasin, MarCatchmentID, MareCatchmentName, TributaryTo, StreamLevel, CatchmentArea, Latitude, Longitude, Country, Region, Soil, Population, per_Urban, per_Rural	Baltic Sea Drainage area	Riverwise data	n/a	n/a	n/a	2010		Open	Dr. Christoph Humborg, BNI institute Stockholm, christoph.humborg@gmail.com	http://bncsim.stockholm.resilience-su.se/WP2/G2/	n/i	RECOCA	2
Data base, used in the modelling system, developed in the frame of the RECOCA Deliverable 6.3 for linking rootzone nutrient loss modelling to catchment model estimates of retention in groundwater and surface waters.	The data base incorporates data of N in fertilizer and manure per crop depending on farm type, country and region.	rootzone nutrient loss, catchment retention modelling	various	Baltic Sea Drainage area	Riverwise data	n/a	n/a	n/i	2011	2011	Open	per.staalnacke@bioforsk.no	http://bncsim.stockholm.resilience-su.se/WP2/G2/	n/i	RECOCA	6
ReCoCa Daisy Input Data	Data of physical, anthropogenic and agricultural properties in the Baltic Sea catchment	ReCoCa, Daisy, Input data, Agricultural area, Baltic Sea catchment	Watershed boundaries, Population data, Manure and Mineral fertilizer application, Crop types, Land Cover, Livestock, Atmospheric deposition, Soil types, Temperature and precipitation	Baltic Sea catchment	Latitude: 48°30'N - 69°30'N Longitude: 7°30'E - 38°30'E Spatial resolution: Variable	Variable	Daily / Annual		2009-2010		On request from the contact.	Christoph Humborg Baltic-NEST institute	Baltic-NEST institute	RECOCA	3	
ReCoCa SWAT Input Data	Data of physical, anthropogenic and agricultural properties in the river basins of: Pärnu, Kokemäenjoki, Nevezis, Odense fjord, Plonia, Berze, Kalixälven and Norrström	ReCoCa, SWAT, Input data, Agricultural area, Pärnu, Kokemäenjoki, Nevezis, Odense fjord, Plonia, Berze, Kalixälven, Norrström	Watershed boundaries, Population data, Manure and Mineral fertilizer application, Crop types, Land Cover, Livestock, Atmospheric deposition, Soil types, Temperature and precipitation	The River basins of: Pärnu, Kokemäenjoki, Nevezis, Odense fjord, Plonia, Berze, Kalixälven and Norrström	Spatial extension: see area. Spatial resolution: variable	Variable	Daily / Annual		2009-2010		On request from the contact.	Christoph Humborg Baltic-NEST institute	Baltic-NEST institute	RECOCA	4	
Monthly time-series of riverine inputs to Baltic Sea coastal regions	Data sets of run off, inputs of nutrients and of other parameters of the rivers in Estonia, Finland, Lithuania and Sweden	flow and transport data	Runoff km3, TEMP, NH3n Tons, NH4n Tons, NO2n Tons, NO3n Tons, NO23n Tons, Totn Tons, PO4p Tons, Totp Tons, Si Tons, CODMn Tons, CODCr, BOD5 Tons, BOD7 Tons, TOC Tons, Ca Tons, K Tons, Mg Tons, Na Tons, SO4 Tons, SO4-F Tons, Alkalinity mmol/l, HCO3 Tons, Cl Tons, Conductivity micro-S/cm, pH, Fe Tons, Mn Tons, Turbidity FNU, Fluoride Tons, Absorbance unfiltered, Absorbance filtered	ESTONIA, Baltic Proper ESTONIA, Gulf of Finland ESTONIA, Gulf of Riga FINLAND, Bothnian Bay FINLAND, Bothnian Sea FINLAND, Gulf of Finland LITHUANIA, Baltic Proper SWEDEN, Baltic Proper SWEDEN, Bothnian Bay SWEDEN, Bothnian Sea SWEDEN, Kattegatt	Variable. Includes 68 rivers	years 2001 to 2012	Monthly	Primarily validated by data originator	2.10.2014	23.06.2015	On request from the contact	Baltic Nest Institute/Baltic Sea Centre Stockholm University Stockholm Sweden	Baltic Nest/Baltic Sea Centre, Stockholm University	Sweden: The data were extracted from SLU's environmental data base for soil-water environment. Data has been developed within the Swedish co-ordinated environmental monitoring by the Environmental Protection Agency, Havs- och vattenmyndigheten and the respective vattenvårdsförbund. Runoff data were downloaded from SMHI's HYPE-data and Vattenwebb datasets. Estonia: Estonian Environment Agency. Lithuania: Environmental Protection Agency, Environmental Status Assessment Department, River Basin Management Division Finland: Finnish Environment Institute SYKE	RECOCA	WP 1

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parameters in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
Cod historical tagging data	The data include tagging experiments, both traditional and data storage tags (DST)	Baltic, cod, tagging, migrations, data storage tags	Release & recapture time and position; for DST temperature and pressure for individual cod every 10 minutes while at liberty.	Whole Baltic Sea	Individual positions	1969-1985	Tagging data	Computerized data from historical paper protocols	1.2.2015	1.2.2015	Project limited, upon request	Christian Möllmann, christian.moellmann@uni-hamburg.de	UHAM, DTU AQUA, UT, EMI	Computerized data from historical paper protocols	INSPIRE	2
Gillnet and beach seine dataset	Environmental, catch and fish individual data from the gillnet and beach seine surveys	Gillnets, beach seines, cod, flounder, habitat modeling	The data include environmental, catch and fish individual data	Baltic Proper	Transects and stations at specific predefined positions	2014 and 2015	Spring and autumn 2014 and 2015	Computerized data from paper protocols	31 March 2015	31 March 2015	Project limited, upon request	Ann-Britt Florin, ann-britt.florin@slu.se Michele Casini, michele.casini@slu.se	SLU, DTU AQUA, UT-EMI	Computerized data from paper protocols	INSPIRE	1
Small-scale acoustics dataset	Acoustic raw data from selected surveys for analysing small-scale behaviour and aggregation structure of forage fish and their main predator	Acoustics, herring, sprat, cod, schooling, small-scale structure, individual predator-prey interactions	The data include positional and acoustic raw data	Bornholm Basin and Gotland Basin	Transects and stations at specific predefined positions	2002, 2015 and 2016	Spring 2002, spring and autumn 2015 and 2016	Computerized raw data (back-scattering)	31 July 2016	31 July 2015	Project limited, upon request	Stefan Neuenfeldt, stn@aqu.dtu.dk ; Christian Möllmann, christian.moellmann@uni-hamburg.de Michele Casini, michele.casini@slu.se	UHAM, DTU AQUA, UT-EMI	N/A	INSPIRE	2
Flounder database	Database contains basic data necessary for assessment or evaluation of status of flounder stocks. Wherever available, age structured data were included. This data were derived using recommended by ICES age determination method. As such data are not available for all stocks, also data used for evaluation of data-limited stocks were compiled. It includes length distributions, growth data, fishing effort, results of national surveys.	length distribution, length at age, sex ratio, national survey, age distribution	Length distribution in landings and discards, Length at age by sex, Sex ratio by length, Effort and catch in national survey, age distribution from commercial catch and survey (BITS)	SD 22-28 & 32	by ICES Subdivisions	2000-2016	by quarter	good quality	6.03.2017	31.03.2018	for INSPIRE partner institutes	aluzencyk@mir.gdynia.pl jhorbowy@mir.gdynia.pl	National Marine Fisheries Research Institute (MIR-PIB; INSPIRE Partner 3), copy at Estonian Marine Institute, University of Tartu (TU-EMI; INSPIRE coordinator)	DATRAS, INTERCATCH	INSPIRE	4
BalticMicroBEDB	Dataset of quantities of microbial functional genes and microbial taxonomic groups in water samples based on metagenome and metatranscriptome data. Metagenome and metatranscriptome datasets from individual samples have been mapped to a Baltic Sea Reference Metagenome (BARM) and counts of functional genes and of taxonomic groups have been obtained for each sample.	Baltic Sea; Metagenome; Metatranscriptome; Microbiome	RPKM (Reads Per Kilobase of target per Million mapped reads) values for functional genes; PFAMs, COGs, TIGRFAMs, and of taxonomic groups, from phylum to genus level.	From Bay of Bothnia to Skagerakk, currently excluding gulf of Finland.	11 stations along a transect from Bay of Bothnia to Skagerakk. More stations will be added later.	2012 - 2014	At one station east of Öland (Linnaeus Microbial Observatory; LMO) weekly sampling during icefree season in 2012. Stations along spatial gradient sampled once in summer 2014 so far.	No standardised evaluation criteria available	The database was created in 2016		sys.16	Currently the LMO data is publicly available. Other data will be released as they are published in journals. Please contact us for earlier access/collaborations. Contact: Anders Andersson; anders.andersson@scilifelab.se The database was created by Johannes Alneberg.	http://barm.scilifelab.se/	The LMO dataset is published in: Hugerth et al., 2015. Genome Biology 16:279	Blueprint	4
FerryScope Spectral Library	Spectral library for the Baltic Sea that relates spectra of remote sensing reflectances (Rrs) to inherent optical water properties (IOPs). It comprises in situ measurements related to spectrometer results for different water types, as well as model outputs determined by applying a Hydrolight radiative	Remote sensing reflectance, IOP, Hydrolight	apiq_a_dg_b_part, b_part_ratio, a_dg_ratio, Sal, sza, vha, aza, bands/wavelength	open Baltic Sea	n/a	n/a	n/a	-	-	30.6.2015	30.6.2015	restricted to project until scientific publication	J. Attila, SYKE (jenni.attila@ymparisto.fi), Tiit Kutser, EMI (t.kutser@sea.ee)	ftp://ferryscope@ftp.brockmann-consult.de/data/D2.2-SpectralLibrary	n/a	FerryScope
Data sets on land use and agricultural management available for WP 3 and 4, Go4Baltic.	A test version of the Go4Baltic baseline data set comprising spatially linked information.	CAPRI, input data; agricultural land use, livestock, fertilisers, test dataset.	Crop cover divided into crop types, Inputs of nitrogen by fertilizer and manure applications to individual crops, Nitrogen fixation, Atmospheric nitrogen deposition, Nitrogen removal by harvest, Livestock divided into types and numbers of heads, Greenhouse gas emissions from agricultural sources per country,	Test dataset: Denmark. Units of an average size of 21 km2. Final dataset Baltic catchments.	Spatial extension: see area. Spatial resolution: variable.	average 2007-2009	n/a	Test data set tested against Danish statistical data, good fit.		2016	2016	Test data only for project consortium	Hans Estrup Andersen, hea@bios.au.dk	ReCoCa dataset, CAPRI	Go4Baltic	WP1
Travel distance matrix of recreation to coastal sites around the Baltic Sea	National representative samples of the population on their recreational patterns with regard to the Baltic Sea.	travel cost method; Random utility model, travel distance matrix	id; start town; s_zip; s_lat; s_lon; destination town; d_lat; d_lon; travel distance (km); time (min)	Denmark, Sweden, Finland, Russia, Estonia, Latvia, Lithuania, Poland, Germany	A total of 3183 respondents in nine countries (DE: 211; DK: 598; EE: 92; FI: 297; LT: 344; LV: 495; PL: 296; RU:112; SE: 738)	April-June 2010	One year	Representative national surveys in nine BS riparian countries ; Geocoding and Routing carried out using Open	2010	2015	restricted to project consortium till 2018	Marianne Zandersen; mz@envs.au.dk	https://apo.box.com/files/0/f/4791242437/Travel_distance_matrices	n/a	Bonus BALTICAPP	WP3.1
Travel distance matrix of recreation to nature sites in Denmark	based on panel survey of Danish national representative respondents; their addresses; population density; site typologies and avg. Travel cost.	travel cost method; Random utility model, travel distance matrix	kn1kmdk,Omraade,VPOP,Strandpunkt,logAreal,Stier,Hav,Skov0_25,PrivatSkov,Natura2000,Ferskvand,	Denmark	3092 nature sites and square km population density; national; Denmark	2013	On year	panel data respondents and CPR data on addresses joined with square km net in Denmark.	2013	2015	restricted to project consortium till 2018	Marianne Zandersen; mz@envs.au.dk	https://apo.box.com/files/0/f/4791242437/Travel_distance_matrices	Original survey conducted : Børner, Jensen & Termansen; Den rekreative værdi af naturområder i Danmark. De Økonomiske Råd. Arbejdsrapport 2014:1	Bonus BALTICAPP	WP3.1
Data of spatial and temporal aspects of cultural ecosystem services	The data originates from the survey that gathered spatially and temporally detailed information of public preferences for and benefits from cultural ecosystem services by utilizing Participative Geographical Information approaches (softGIS), where respondents provide geographic information on where they obtain benefits from ecosystem services and the type of these benefits (such as subsistence, existence values, understanding, belonging, creation, recreation, inspiration, education and identity)	marine and coastal recreation, cultural ecosystem services, preferences for conservation, contingent behavior, Choice experiment	The data includes responses from 41 questions (of which all were not posed to the same respondent) and 6 sections: 1) Introduction to the survey and the Baltic Sea, 2) Respondent's recreation visits with map, 3) Last visit to the most often visited site, 4) Environmental conditions and future visits (contingent behavior), 5) Preferred future state of the Baltic Sea (choice experiment), cultural ecosystem services, 6) Background questions.	Baltic Sea and land areas of Finland, Latvia and Germany	Varying	Year 2016	Seasons	Focus groups and pilot survey were used to increase the quality of data. Outliers and missing values are taken into account in data analysis phase.	2016-2017	Not updated	After the project from Natural Resources Institute Finland by agreement of the use.	Natural Resources Institute Finland	Natural resources Institute Luke	No	Baltic App	2
Integrated database of ship traffic and ice data	Ship locations and speeds retrieved from AIS data combined with ice parameters from ice charts and ice model	AIS data, ice conditions, ship ice performance, ice navigation	Ship identifier,ship location and ship speed; ice concentration, ice thickness, ice types,	Baltic sea north of latitude 59N	100 m for ship location, 2 km for ice parameters	2007-2016	10 seconds for ship data, 1 day for ice data	AIS data contains <1% errors	24.2.2017	24.2.2017	On request; to be negotiated with project consortium and AIS data provider	Mikko Lensu, Finnish Meteorological Institute (FMI), mikko.lensu@fmi.fi	Finnish Meteorological Institute internal	Archived AIS data (Finnish Traffic Administration), archived ice charts and ice model data (FMI)	STORMWINDS	4.8
Selke river catchment description	Input data for the HYPE model	Geographical data, meteorological data, point source data, water flow and quality	Elevation (SSO, 90m), Stream network (SSO, 50m), Soil type (SSO, 50m), Land use (CORINE, 25 m), precipitation (mm; min, max, mean), air temperature (oC; min, max, mean), agricultural practices (day), sewage discharge (Q, Nitrate-N mg/l), soil N content (mg/l), discharge (m3/s), Nitrate-N (mg/l), Total-P (mg/l), Soluble-P (mg/l)	Selke catchment 463 km ²	16 rainfall and 2 climate stations, 6 sewage treatment plants, three water quality gauging stations	1994-2013 (All data are available during this period)	daily mean for discharge, daily mean meteorological data, weekly to biweekly time interval for Nitrogen and Phosphorus, mean daily for point source, mean N and P chemical and organic fertilizer per season and per crop	Geographical data - 01.2010, meteorological data - 06.11.2014, agriculture practices and management (diffuse source) - 11.01.2013, sewage treatment plants (point source) - 30.08.2012, soil nitrogen content - 22.08.2012, discharge (m3/s) - 07.03.2012, nitrate-N concentration (mg/l) - 15.01.2013, phosphorus concentration (mg/l), soluble P and total P - 12.01.2013	Geographical data - 01.2015, meteorological data - 07.06.2015, agriculture practices and management (diffuse source) - 13.02.2015, sewage treatment plants (point source) - 10.08.2014, soil nitrogen content - 10.01.2013, discharge (m3/s) - 13.02.2015, nitrate-N concentration (mg/l) - 13.02.2015, phosphorus concentration (mg/l), soluble P and total P - 13.02.2015	openly available	Heimholtz Centre for Environmental Research - UFZ . Michael Rode, michael.rode@ufz.de & Seifeddine Jomaa, seifeddine.jomaa@ufz.de	Serwer adress: ftp.imgw.pl				
Reda river catchment description	Input data for the HYPE model	Meteorological data, hydrological data, diffuse source of pollution, land cover, soil type, Map of Hydrological Division of Poland in the scale 1:10 000	Stream network (scale 1:10 000), Soil type, Land use (CORINE, 100m minimum mapping width, 100m positional accuracy), precipitation (mm; min, max, mean), air temperature (oC; min, max, mean), wind (m/s), relative humidity, agricultural practices (day), sewage discharge (kg/year), soil N content (kg N/ha/year), soil P content (kg P/ha/year), Total-P (kg/year), Total-N (kg/year)	Reda catchment 485 km ²	synoptic meteorological stations and gauging stations	Meteorological data - 1995-2014, hydrological data - 1995-2014, diffuse source of pollution and point source of pollution - 2010-2011, land cover - 2006, Map of Hydrological Division of Poland in the scale 1:10 000 - 2013	Meteorological data - daily mean, hydrological data - daily mean, diffuse source of pollution and point source of pollution - annual, land cover - not applicable, soil type - not applicable, Map of Hydrological Division of Poland in the scale 1:10 000 - not applicable	Meteorological data - 1951-1966, hydrological data - 1951, diffuse source of pollution and point source of pollution - 30.08.2013, land cover - 2005-2007, Map of Hydrological Division of Poland in the scale 1:10 000 - 2010	Meteorological and hydrological data - continuously updated; Map of Hydrological Division of Poland in the scale 1:10 000 - 2010	Meteorological data - restricted, hydrological data - restricted, diffuse source of pollution and point source of pollution - restricted, land cover - open available, soil type - restricted, Map of Hydrological Division of Poland in the scale 1:10 000 - restricted	Institute of Meteorology and Water Management - National Research Institute Branch in Krakow Tomasz Walczykiewicz, tomasz.walczykiewicz@imgw.pl	Serwer adress: ftp.imgw.pl				

1) Title of dataset	2) General description of the dataset	3) Keywords	4) Parametres in the dataset	5) Area covered	6) Spatial resolution	7) Time span covered	8) Temporal resolution	9) Data quality (degree of assurance)	10) Created	11) Last update	12) Availability	13) Originator/Contact	14) Location of dataset	15) Reference to sources other datasets	16) BONUS Project that produced the dataset	17) WP
Berze river catchment description	Input data for the HYPE model	Geographical data, meteorological data, point source data, water flow and quality	Elevation (10 - 140 m a.s.l.) DEM (25 m), Stream network (shp.), Lakes (shp.), Soil type (50 m, EU soils), Land use (25 m, Corine Land Cover 2000 and 2006), roads (shp.), point sources (shp.), 15 subcatchments (shp.), Latvia border (shp.), monitoring points (shp.) and many maps. Total Nitrogen, Nitrate-N concentration (mg/l), Phosphorus concentration (mg/l), Soluble P and Total P, Daily discharge (m ³ /s), Daily precipitation, mm (sum) and air temperature (mean)	Berze catchment 872 km ² . The river Berze is sub-catchment of Lielupe river basin that is one of four river basin districts according Water Framework Directive in Latvia. Most of the Berze basin is located within vulnerable zones according to EU Nitrate Directive. River Berze situates at the central part of Latvia and is the tributary of river Svete that inflow in river Lielupe and then into Gulf of Riga. The length of the river Berze is 109 km (slope 108 m per 109 km) and river basin covers an area of ~ 872 km ² . Normal year water balance is: precipitation 630 mm, run-off 200 mm and evaporation 430 mm. Coordinate X: 452416; Y:6278799	a) Monthly concentrations are available at 15 sampling points (LLU); b) 1 agricultural runoff monitoring station Berze representing N and P loads; c) 1 climate station and d) 2 gauging stations (Source: Latvian Environment, Geology and Meteorology Center)	a) 2005 apr. -2014.dec; b) 1993-2014.dec; c) and d) 1951-2014 and modeled till 2100	Monthly for Nitrogen and Phosphorus, daily mean for discharge, daily mean meteorological data.		a) 2005.apr b) 1993; c) 1951; d) 1951	so many files to describe...all is ongoing monitoring	a) and b) openly available; c) and d) available on request	Latvia University of Agriculture, Dept.of Environmental Engineering and Water Management Kaspars Abramenko - kaspars.abramenko@llu.lv, Ainis Lagzdins - ainis.lagzdins@llu.lv	Server adress: ftp.imgw.pl			
Helge river catchment description	Input data for the HYPE model	Geographical data, meteorological data, point source data, water flow and quality	daily discharge, Lakes, Dams - Rivers - Basins - Sub-catchment delineation, Agricultural block data, Land cover, Soil type, Point source emissions, Industrial emissions, Rural household emissions, Air temperature, Precipitation	Helge å	Precipitation and Temperature (4x4 km grid), CORINE land use (100x100m grid)	1990-2014	daily mean for discharge, daily mean meteorological data, weekly to biweekly time interval for Nitrogen and Phosphorus concentrations, long-term daily averages for point sources and diffuse sources, long-term seasonal estimates for fertilizer application and crop distribution		Discharge from Swedish permanent gauging stations - starting date of measurement, varies between gauging stations, discharge from Swedish temporal gauging stations - continuously updated, swedish water archive (SVAR) - 2013 (versions 2012_2, 2012_3), agricultural land use block data - 2013, corine Land Cover 2000 seamless vector data - 2014, soil type map of Sweden 1:25 000-1:100 000 - continuously updated according to SGU's product page, rural household source emissions in Sweden - 2014, PTHBV gridded precipitation and air temperatures - 2013	Discharge from Swedish permanent gauging stations - continuously updated, discharge from Swedish temporal gauging stations - continuously updated, swedish water archive (SVAR) - 2013 (versions 2012_2, 2012_3), agricultural land use block data - 2013, corine Land Cover 2000 seamless vector data - 2014, soil type map of Sweden 1:25 000-1:100 000 - continuously updated according to SGU's product page, rural household source emissions in Sweden - 2014, PTHBV gridded precipitation and air temperatures - 2013	restricted (soil data), openly available (all other)	Swedish Meteorological and Hydrological Institute (SMHI), Hydrological Research Dep. Contact: René Capell - rene.capell@smhi.se	Server adress: ftp.imgw.pl			