COASTAL DATA PORTALS TO SUPPORT MARINE SCIENCE AND MANAGEMENT – THE COASTMAP APPROACH



Linda Baldewein, Ulrike Kleeberg, Marcus Lange, Dietmar Sauer Institute of Coastal Research Barcelona, November 7th 2018

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research



THE MARINE GEOPORTAL

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research

- Context coastMap
- Campaign data
- Model Analysis Tool
- Spotlights
- Live demonstration
- Technical infrastructure
- Outlook: Helmholtz Coastal Data Center

Select Institute/Platform	•
≈coast Map	

Data and Visualisation	
Spotlights	
Projects	
About coastMap	

coastMap - the marine Geoportal of the Institute of Coastal Research



Geodata and Information

coastMap is the marine Geoportal of the Institute of Coastal Research. It combines analyses and model data on seafloor conditions and those in the overlying water column with a focus on the North Sea and the atmosphere. It provides access to data of the HZG and its partner institutions. Focus areas of the portal are campaign data, model-based estimates and edited accounts of scientific topics.



THE MARINE GEOPORTAL

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research

User groups:

- Experts
- Policy makers and interested publilc

0.	elect Institute/Pla	16	
50		100000000	Мар
Di	ata and Visu	alisation	
S	ootlights		
Pr	ojects		
A	oout coastN	lap	

coastMap - the marine Geoportal of the Institute of Coastal Research



Geodata and Information

coastMap is the marine Geoportal of the Institute of Coastal Research. It combines analyses and model data on seafloor conditions and those in the overlying water column with a focus on the North Sea and the atmosphere. It provides access to data of the HZG and its partner institutions. Focus areas of the portal are campaign data, model-based estimates and edited accounts of scientific topics.

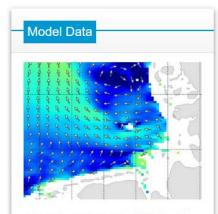


Centre for Materials and Coastal Research



Access to the database for campaign data. Various search criteria can be used as filters and the data can be downloaded as shape or CSV files.

Continue to the campaign database...



Access to various model data with further information and applications. These can be displayed interactively and be downloaded.

Continue to model data...



In this section the interested public can find edited scientific information in the form of Spotlights that are added by map and information material.

Continue to science in a nutshell, the Spotlights...



Centre for Materials and Coastal Research



Access to the database for campaign data. Various search criteria can be used as filters and the data can be downloaded as shape or CSV files.

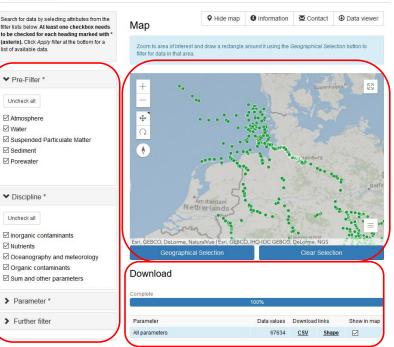
Continue to the campaign database

- App for campaign planning and data collection
- Data storage in relational database

Online tool:

- Various filters
- Immediate download options
- Visualisation

Campaign data



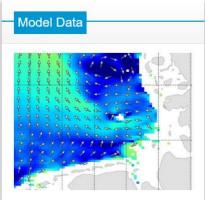
Coastal Data Portals to Support Marine Science and Management – the coastMap Approach



MODEL ANALYSIS TOOL

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research



Access to various model data with further information and applications. These can be displayed interactively and be downloaded.

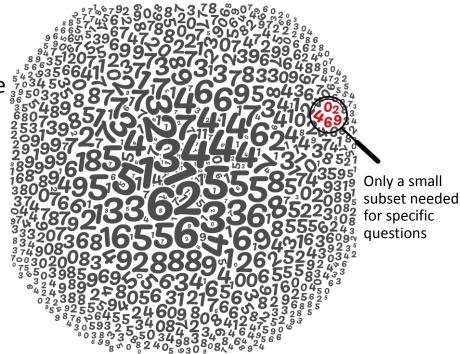
Continue to model data...

Problem: Size of model output

- Access time intensive
- Expert knowledge in handling of huge datasets needed

Solution:

- Only relevant data delivered
- Interactive tool for selecting model derived data

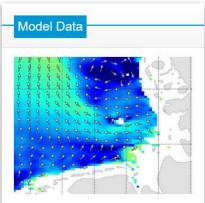




MODEL ANALYSIS TOOL

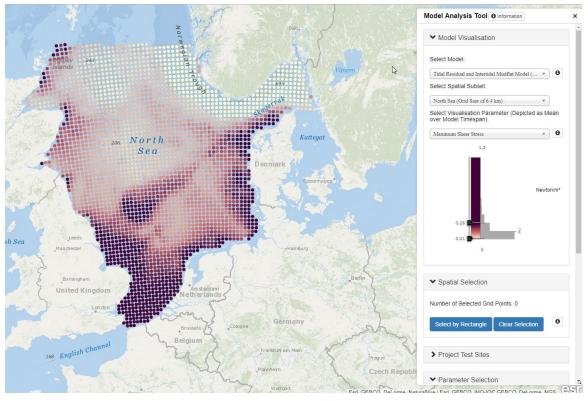
Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research



Access to various model data with further information and applications. These can be displayed interactively and be downloaded.

Continue to model data...



Coastal Data Portals to Support Marine Science and Management - the coastMap Approach



Centre for Materials and Coastal Research

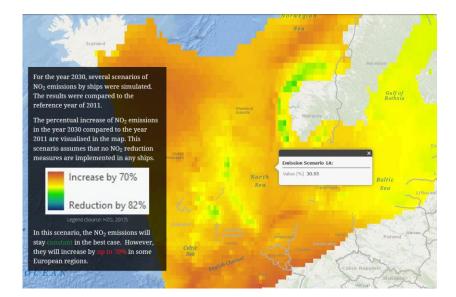


In this section the interested public can find edited scientific information in the form of Spotlights that are added by map and information material.

Continue to science in a nutshell, the Spotlights...

Science in a nutshell for the interested public:

- Edited scientific information
- Interactive maps
- Images and graphics
- Videos
- Links to tools and further information



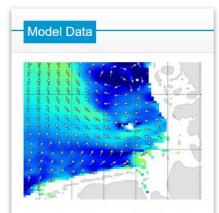


Centre for Materials and Coastal Research



Access to the database for campaign data. Various search criteria can be used as filters and the data can be downloaded as shape or CSV files.

Continue to the campaign database...



Access to various model data with further information and applications. These can be displayed interactively and be downloaded.

Continue to model data...



In this section the interested public can find edited scientific information in the form of Spotlights that are added by map and information material.

Continue to science in a nutshell, the Spotlights...

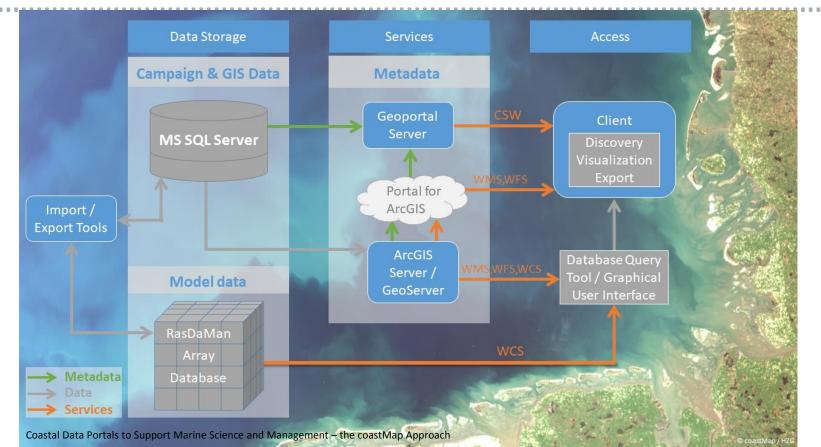
Live demonstration: www.coastmap.org



TECHNICAL INFRASTRUCTURE

Helmholtz-Zentrum Geesthacht

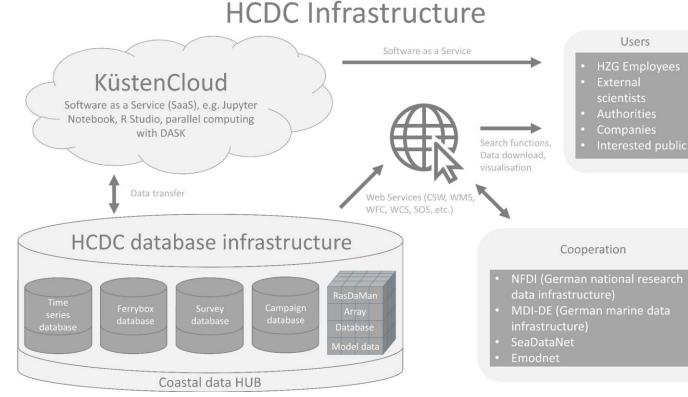
Centre for Materials and Coastal Research



OUTLOOK: HELMHOLTZ COASTAL DATA CENTER (HCDC)

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research



We are currently looking for a new **head of department** for HCDC in our institute near Hamburg, Germany. If you are interested, please visit www.hzg.de or talk to me afterwards.

Coastal Data Portals to Support Marine Science and Management – the coastMap Approach



THANK YOU FOR YOUR ATTENTION!

Linda Baldewein Institute of Coastal Research Linda.baldewein@hzg.de +49 (0) 1452 87 1801

Max-Planck-Str. 1 21502 Geesthacht, Germany www.hzg.de

Helmholtz-Zentrum Geesthacht

Centre for Materials and Coastal Research