

Deltares

BlueEarth Data

Daniel Twigt

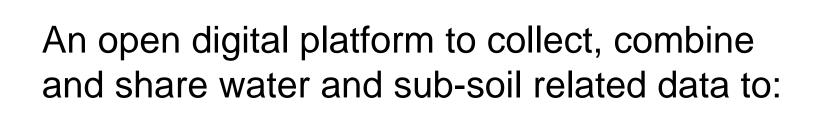
Gert-Jan Schotmeijer

Arjen Luijendijk

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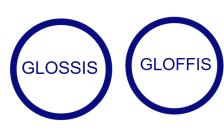






"Explain the past and explore the future"









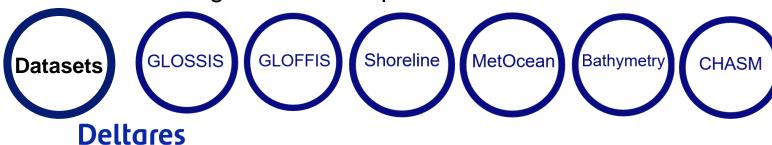


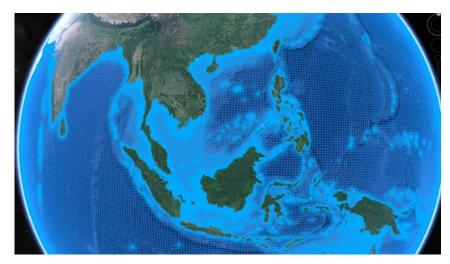


Deltares

GLOSSIS real-time water level and storm-surge forecasts

- Real-time, medium-term forecasts
- Historical timeseries
- Anywhere
- Ingredients:
 - Deltares expertise (hydrodynamics, storm surge, wave, bathemetry)
 - Computational engine: Delft3D based GTSM model
 - Forecasting engine: Delft-FEWS
 - Storage: Deltares OpenArchive







GLOFFIS

real-time hydrological forecasts at world-wide scale

- Medium-term and seasonal fluvial flow forecasts
- Historical timeseries
- Anywhere
- Ingredients:
 - Deltares expertise (hydrology, WRM, forecasting)

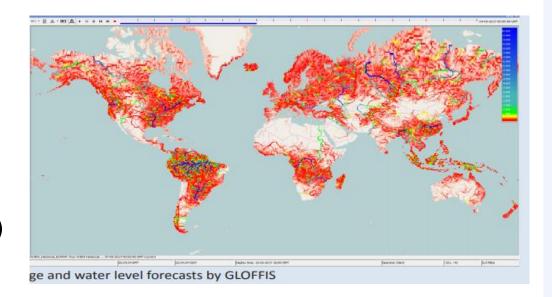
Shoreline

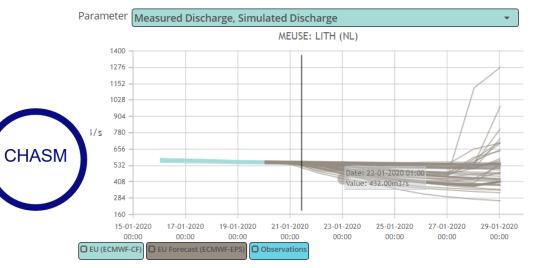
MetOcean

Bathymetry

- Computational engine: wFlow, Dflow-1D based models
- Forecasting engine: Delft-FEWS
- Storage: Deltares OpenArchive

GLOFFIS



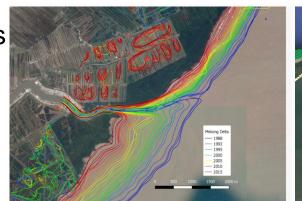




ShorelineMonitor Historic time series of shoreline positions

- Period: 1984 2017
- Every 500m alongshore
- Globally
- Ingredients:
 - Deltares expertise (future delta's, coastal evolution, coastal development)
 - Computational engine: satellite-derived using Landsat archive
 - Forecasting engine: data-driven projections (w.i.p.)
 - Storage: Google







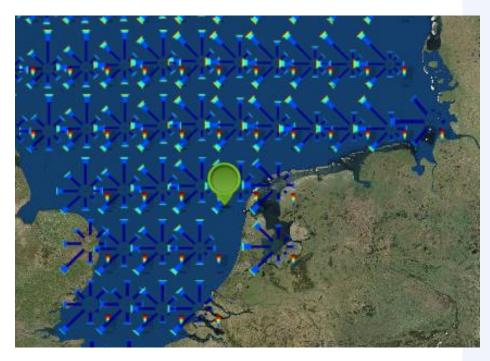
shorelinemonitor.deltares.nl

Deltares

MetOcean database Historic wind and wave climates

- Period: 1979 2015
- Point and map data
- Globally every ~25 km
- Ingredients:
 - Deltares expertise (safe delta's, design conditions, coastal evolution, offshore wind)
 - Computational engine: statistics based on global (external) models (ERA-Interim, ERA5, CFSR)
 - Storage: Deltares OpenArchive

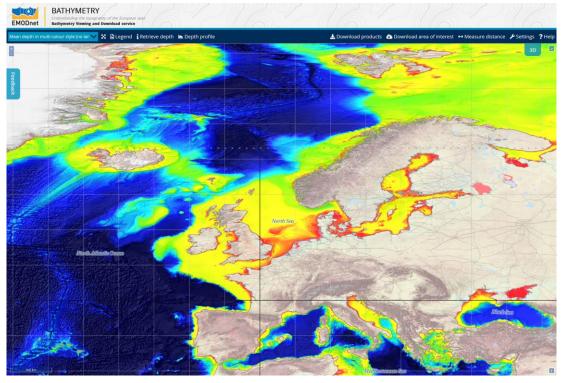






Bathymetry Multiple DEM data sets for land and sea

- GEBCO (0.5km resolution globally)
- EMODnet for EU
- Topography: MERRITT / SRTM
- Ingredients:
 - Deltares expertise (safe and future delta's, design conditions, coastal evolution, offshore wind, and many more...)
 - Providing access to external sources
 - Storage: external sources



EMODnet Bathymetry Portal

CHASM

CHASM is a TKI project, carried out between Deltares and Whiffle, focusing on high-resolution atmospheric sea modelling for offshore wind.

After project completion, we have the obligation to make the project data available for a period of 5 years:

- Full dataset of ~1TB in 4TU data repository (trial)
- Registration of dataset metadata in Deltares Data Portal
- Sample datasets in BlueEarth Data, with reference to (1) and (2)

Delft-FEWS



BlueEarth Data connects to Delft-FEWS and the Open Archive using the Delft-FEWS web services.







- The world is changing towards data services
- Connect provider and user
- Dare to Share Data





- Adding more datasets (very soon)
- API's for seamless integration
- Modelbuilder integration/connection
- Building the BED-community







- BED-community platform
- No Break-Out session today —> Nov 16th

BlueEarth User Day: Explain the past, explore the future

Monday, 16 November 2020

Location, Room GoToWebinar

Date 16 November 202

ime 09:00 - 12:30 CET / CEST (Delft time, UTC+2)

Type of event Super Day

Registry fee € Free



