

Research Data Management at IOW, 2018

Steffen Bock
Susanne Feistel
Susanne Jürgensmann
Lars Umlauf
Barbara Hentzsch
Olivia Diehr

Data policy

- First published: April, 2018
- Reviewed at regular intervals

<http://www.io-warnemuende.de/data-policy.html>



IOWMETA

- A metadata catalogue
- Published: February, 2017
- Continuous updates

<http://iowmeta.io-warnemuende.de>



- Automatic retrieval of descriptive information from heterogeneous data sources at IOW
- Automatic conversion into metadata compliant with ISO 191xx
- Data exchange with national & international partners
- Directs users to appropriate data source



IOW WebGIS

<http://bio-50.io-warnemuende.de>

- Distribution maps
- Maps from modell runs
- Oxygen deficiency maps



Specialized databases

- Oceanographic Database of IOW (IOWDB), 1877-2017, >72 Mio data points
- Planned: BenthosDB

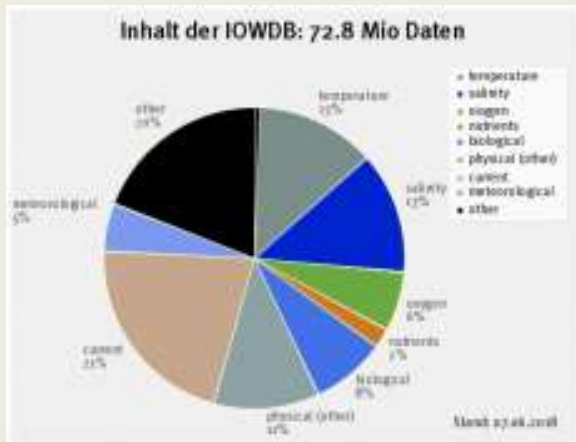





Other data sources



- Modelling data („Thredds Server“)
- Central, indexed file systems
- DOI server



Die IOWDB – in Parametern



- CTD-Profile 
- Hydrochem. und –biolog. Daten 
- MARNET Dauerstationen 

- Strömungsmesser-Zeitreihen 
- Schwermetalldaten 
- meteorologische Daten 
- Historische
Langzeitmessungen
- Daten aus internationaler
Kooperation

IOWDB / ODIN₂

- Modern web interface
- Published: April, 2018
- Continuous updates
- Data licence: CC-BY

<https://odin2.io-warnemuende.de>



- Search for measurement data in IOW's oceanographic database
- Complex filter options
- Integration of search results into user-friendly export formats



Campaigns

- Overview of all cruises and research campaigns
- Station lists, depth profiles
- Cruise inventory
- Documentation



Individual search

- Filter options for
- Geographic areas or coordinates
 - Time, season, depth, parameter, cruises, positions
- Export in text, excel, netCDF,...



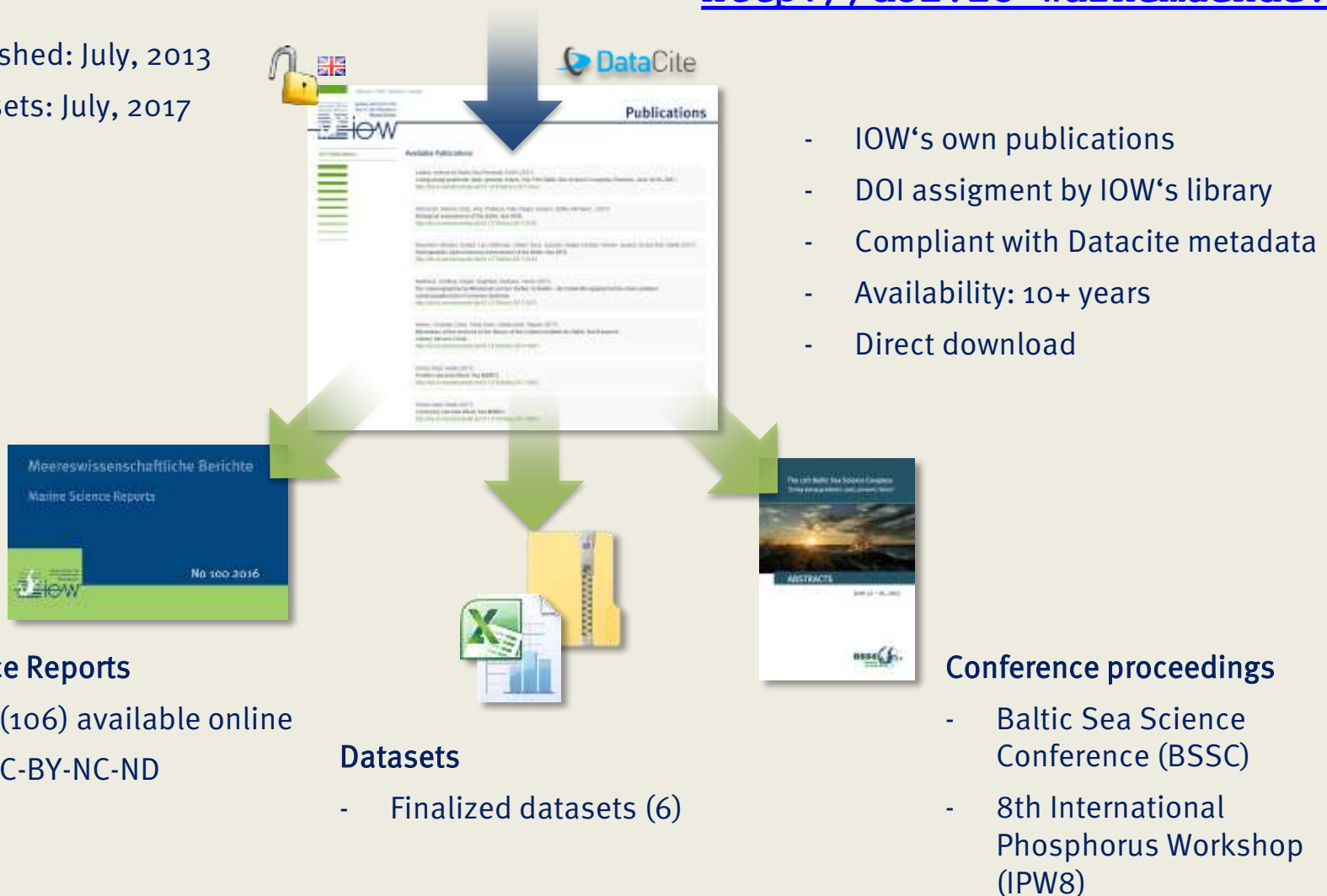
Time series

- Automatic visualisation of long term data series at monitoring stations
- Options: position, parameter, depth, season

DOI-server

- First published: July, 2013
- First datasets: July, 2017

<http://doi.io-warnemuende.de>



- IOW's own publications
- DOI assignment by IOW's library
- Compliant with Datacite metadata
- Availability: 10+ years
- Direct download

Marine Science Reports

- All issues (106) available online
- Licence: CC-BY-NC-ND

Datasets

- Finalized datasets (6)

Conference proceedings

- Baltic Sea Science Conference (BSSC)
- 8th International Phosphorus Workshop (IPW8)