

MASSMO partners meeting, NOC, 25 February 2015

MASSMO data management: Status as of February 2015

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British Oceanographic Data Centre



**British Oceanographic
Data Centre**

NATURAL ENVIRONMENT RESEARCH COUNCIL



**National
Oceanography Centre**

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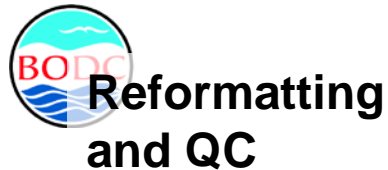
Data processing goals



Making prototype tools developed by GROOM project operational



Efficient flow of data from platform to end users



Maximise the impact of public funded data collection



Interoperable data

- EGO format
- Variable naming



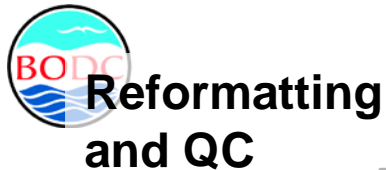
Focus on automating prototypes



Collect data from providers in real time



Long term archive data in triplicate



Convert data to EGO format

- Adaptations for surface vehicles



Forward data to:

- MASSMO project partners
- UK Met Office
- EGO GDAC

Preliminary data in DOI

https://www.bodc.ac.uk/data/published_data_library/catalogue/10.5285/0a6d1741-6c71-248b-e053-6c86abc0175d/

The screenshot shows the BODC website interface. The main content area displays the 'Published Data Library (PDL)' for the 'MASSMO Survey 2014: Preliminary dataset'. A 'Download' button is visible. The dataset description is as follows:

Title	Marine Autonomous Systems in Support of Marine Observations (MASSMO): Celtic Sea/English Channel multi-platform, multi-partner demonstration project - raw data from autonomous vehicles, with supporting barotropic tidal current imagery from model simulation exercises, October/November 2014.
Author(s)	Wynn R.B. (1); Rogers R.J. (2); Sims D.W. (3); Cotterell S. (4); Palmer M.R. (5); Pearce D.J. (6); Sivyier D.B. (6); White D. (1); Woodward S.C.A. (1); Lorenzo Lopez A. (1); Polton J. (5) (1) National Oceanography Centre, Southampton; (2) National Marine Facilities Sea Systems; (3) Marine Biological Association of the UK; (4) University of Plymouth, School of Geography, Earth and Environmental Sciences; (5) National Oceanography Centre, Liverpool; (6) Centre for Environment, Fisheries and Aquaculture Science Lowestoft Laboratory

Dataset includes:

- Real time transmitted data
 - Liquid Robotics Ltd Wavegliders
 - "Waimea" (owned by MARS)
 - "Lyra" (owned by Cefas)
 - MOST AV Ltd Autonaut "Gordon" (owned by MARS).
 - MARS Teledyne Webb Slocum glider
 - 398 ("Churchill")
 - 400 ("Drake")
- Barotropic tidal current imagery from Proudman Oceanographic Laboratory Coastal Ocean Modelling System (POLCOMS) simulation run

A second DOI

For data that has arrived since mid December

Including:

- Recovery datasets
 - Liquid Robotics Ltd Wavegliders
 - "Waimea" (owned by MARS)
 - "Lyra" (owned by Cefas)
 - MARS Teledyne Webb Slocum glider
 - 398 ("Churchill")
 - 400 ("Drake")
- Others?

The screenshot shows the BODC website interface. The main content area displays the following information:

Published Data Library (PDL)
MASSMO Survey 2014: Preliminary dataset

Title	Author(s)
Marine Autonomous Systems in Support of Marine Observations (MASSMO): Celtic Sea/English Channel multi-platform, multi-partner demonstration project: raw data from autonomous vehicles, with supporting barotropic tidal current imagery from model simulation exercises, October/November 2014.	Wynn R.B. (1); Rogers R.J. (2); Sims D.W. (3); Cotterell S. (4); Palmer M.R. (5); Pearce D.J. (6); Sivyer D.B. (6); White D. (1); Woodward S.C.A. (1); Lorenzo Lopez A. (1); Polton J. (5)

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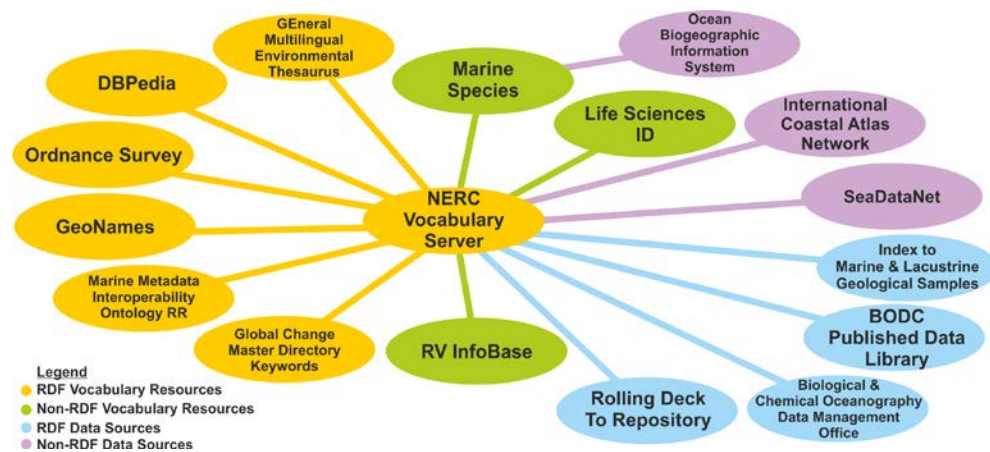
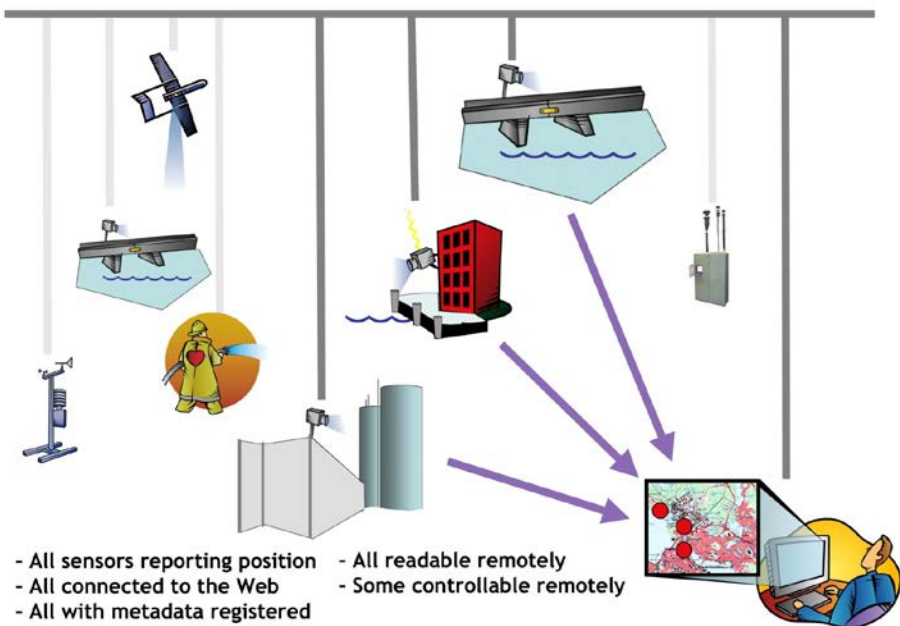
Lessons learnt

BODC lessons learnt focus on preparation of the data system prior to deployment:

- Acquisition of platform and sensor metadata
- Acquisition of data formats
- Setup and test links to data sources
- Identify principal data contacts

Future work

- Data to form test dataset for BODC development of data delivery by OGC SWE and Linked Ocean Data standards



Summary

- BODCs efforts focused on automating prototype systems
- Data from prior to mid December available in a DOI
 - Need to confirm all potential data for a second DOI
- Lessons learnt related to the preparation for deployment of platforms
- The MASSMO data will underpin enhanced data delivery developments at BODC