

FASTNEt data archive: An update

MARK HEBDEN & EMMA SLATER – 10TH NOV 2015, SAMS



**National
Oceanography Centre**
NATURAL ENVIRONMENT RESEARCH COUNCIL



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Our FASTNEt role

In Summary:

- To **safeguard** FASTNEt data sets and **facilitate exchange** with consortium participants.
- To provide onboard data collection and metadata management **support** during the principal FASTNEt cruises.
- To exploit near real time observations – extra **impact** for FASTNEt.
- To assure **long-term stewardship** of data sets arising from the consortium, for the benefit of the wider scientific community (present and future).

Status of the FASTNEt archive

- **Substantial proportion of the observational data set now with BODC.**
- Includes 16 preliminary glider data sets.
- Growing proportion of (non-glider) data sets now available for **online download.**

Notable absentees...

- 'Delayed mode' QC'd glider data sets
- AUV data sets??
- Instrumentation recovered from LT1
- D376 VMP (with Matthew...)
- D376 Sample data (with Claire...)

A question... **model output??**

Accessing FASTNet data...

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Fluxes Across Sloping Topography of the North East Atlantic (FASTNet)

The Fluxes Across Sloping Topography of the North East Atlantic (FASTNET) consortium aims to improve current understanding of exchange processes taking place at ocean-shell boundaries.

A combination of novel observational strategies and modelling techniques will focus on the shelf edge, west of the UK, as part of a four year scientific study. To find out more, follow these links

- [Introduction](#) — A non-technical insight into the FASTNET consortium.
- [Project overview](#) — A brief description of the main aims of the consortium.
- [BODC's role](#) — Our duties as the FASTNET designated data centre.
- [Official web site](#) — View the official FASTNET pages.
- [Data submission](#) — Guidelines on how to submit data to BODC.
- [BODC processing](#) — What will BODC do with FASTNET data?
- [Cruise programme](#) — Details of FASTNET cruises.
- [Glider operations](#) — Overview of the consortium's ocean glider operations.
- [Models](#) — Details of the models used by the consortium.
- [Data inventories](#) — A list of FASTNET data currently held at BODC.
- [Data delivery](#) — How to gain access to FASTNET data.
- [Other links](#) — Links to other FASTNET related initiatives.

A Slocum glider deployment from RRS Discovery

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Fluxes Across Sloping Topography of the North East Atlantic (FASTNET)

Data inventories

Cruise — RRS Discovery D376

Information has been obtained from cruise reports and cruise personnel. If you notice any errors, please tell us and we will amend our records.

Data set description	Source	Status
Short term (bedframe) moored SBE37 MicroCAT data (sites ST4 and ST5)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short term (in-line) moored SBE37 MicroCAT data (sites ST1, ST2, ST4 and ST5)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short-term (bedframe) moored 150 kHz ADCP data (sites ST3, ST4 and ST5)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short-term (in-line) moored 300 kHz ADCP data (site ST2)	Jo Hopkins et al.	Received — online data delivery available
Short-term (in-line) moored 600 kHz ADCP data (site ST2)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short-term (in-line) moored 75 kHz ADCP data (site ST1)	Jo Hopkins et al.	Received — online data delivery available
Short-term (in-line) moored Centi temperature logger data (sites ST1, ST2, ST4 and ST5)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short-term (in-line) moored SBE16plus CT data (site ST3)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short-term (in-line) moored StarMon temperature logger data (sites ST2, ST4 and ST5)	Jo Hopkins and Mark Inall	Received — online data delivery available
Short-term (in-line) moored Vemco temperature minilogger data (sites ST1 and ST5)	Jo Hopkins et al.	Received — online data delivery available

Wider audiences...discovering FASTNET data

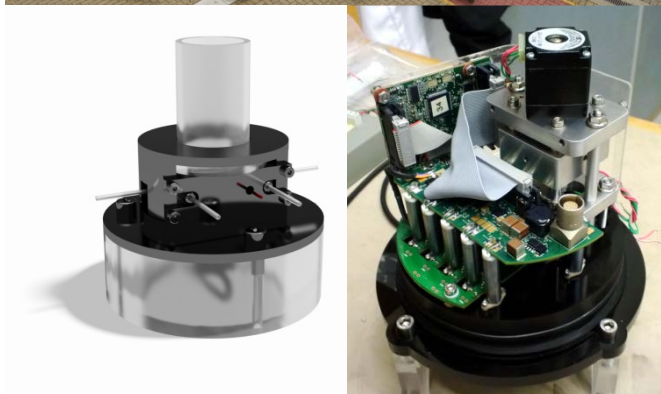
#	Data set name	DC country	Start date	Disciplines - Parameter groups	Instrument / gear type
1	JC088_035	United Kingdom	20130706	Administration and dimensions > Administration and dimensions Biological oceanography > Pigments Chemical oceanography > Dissolved gases Physical oceanography > Optical properties > Other physical oceanographic measurements > Water column temperature and salinity	fluorometers, transmissometers, water temperature sensor, salinity sensor, dissolved gas sensors
2	JC088_005	United Kingdom	20130630	Administration and dimensions > Administration and dimensions Biological oceanography > Pigments Chemical oceanography > Dissolved gases Physical oceanography > Optical properties > Other physical oceanographic measurements > Water column temperature and salinity	fluorometers, transmissometers, water temperature sensor, salinity sensor, dissolved gas sensors
3	JC088_003	United Kingdom	20130629	Administration and dimensions > Administration and dimensions Biological oceanography > Pigments Chemical oceanography > Dissolved gases Physical oceanography > Optical properties > Other physical oceanographic measurements > Water column temperature and salinity	fluorometers, transmissometers, water temperature sensor, salinity sensor, dissolved gas sensors
4	JC088_071	United Kingdom	20130721	Administration and dimensions	fluorometers, transmissometers, water

Developing near real time capabilities

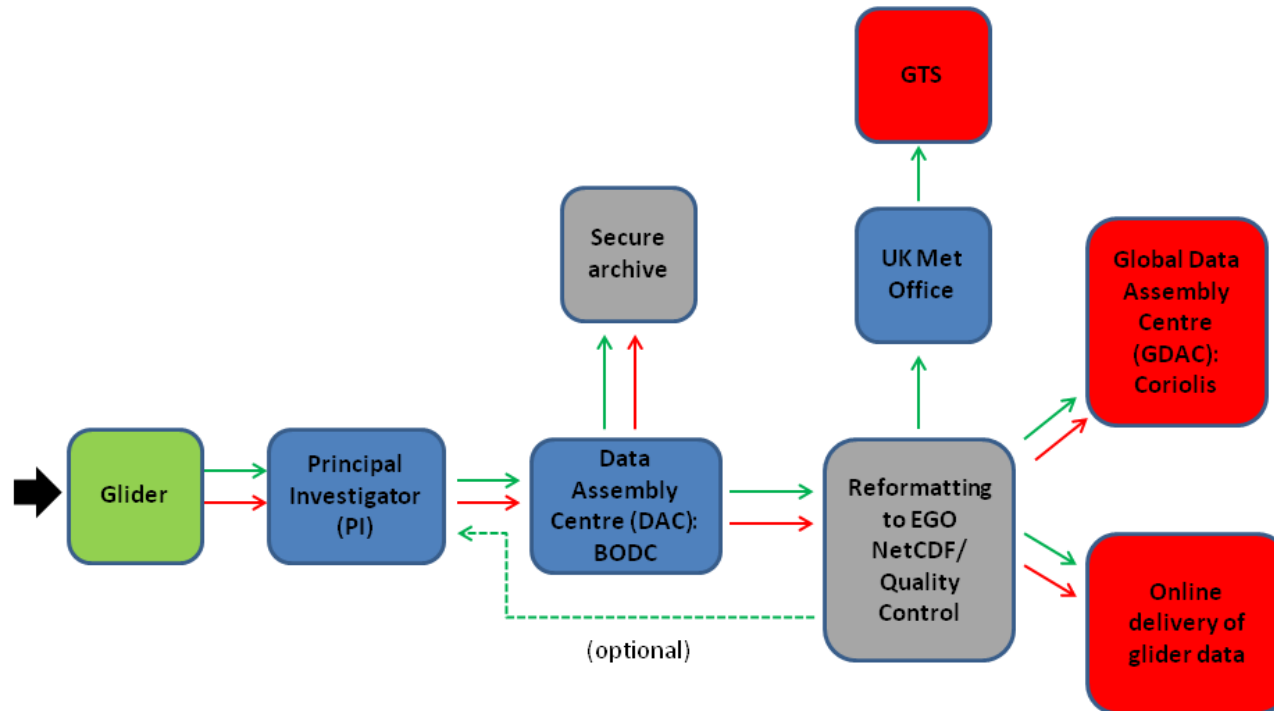
- Autonomous observation is massively increasing the number of platforms and sensors in the ocean.
- Data practices need to evolve at the same time.
- FASTNet has been a useful springboard for BODC to develop capability and useful collaborations: EGO/GROOM, MARS, UK glider community...



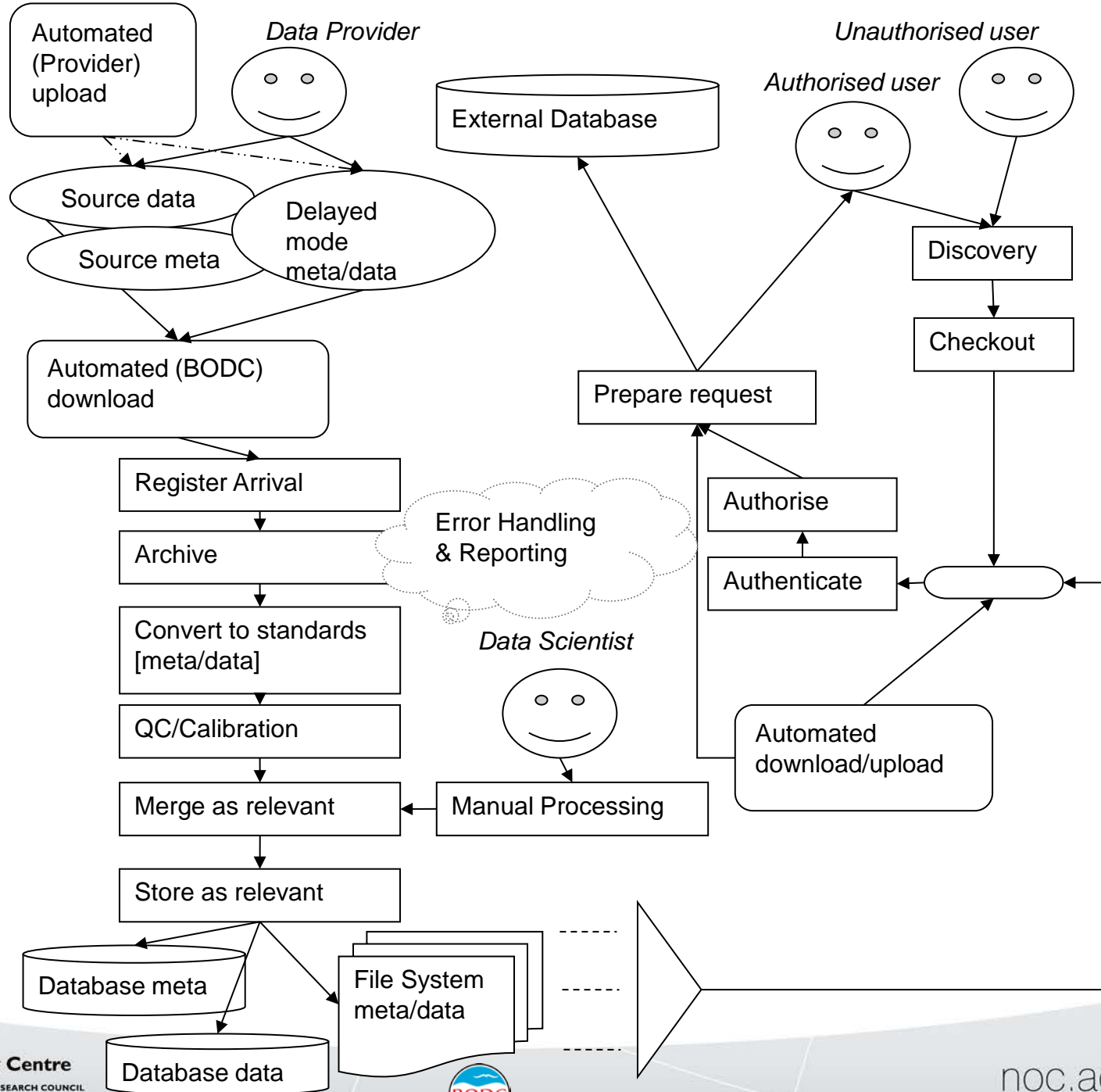
Glider Workshop - Foresight Centre, Liverpool. 18 April 2013

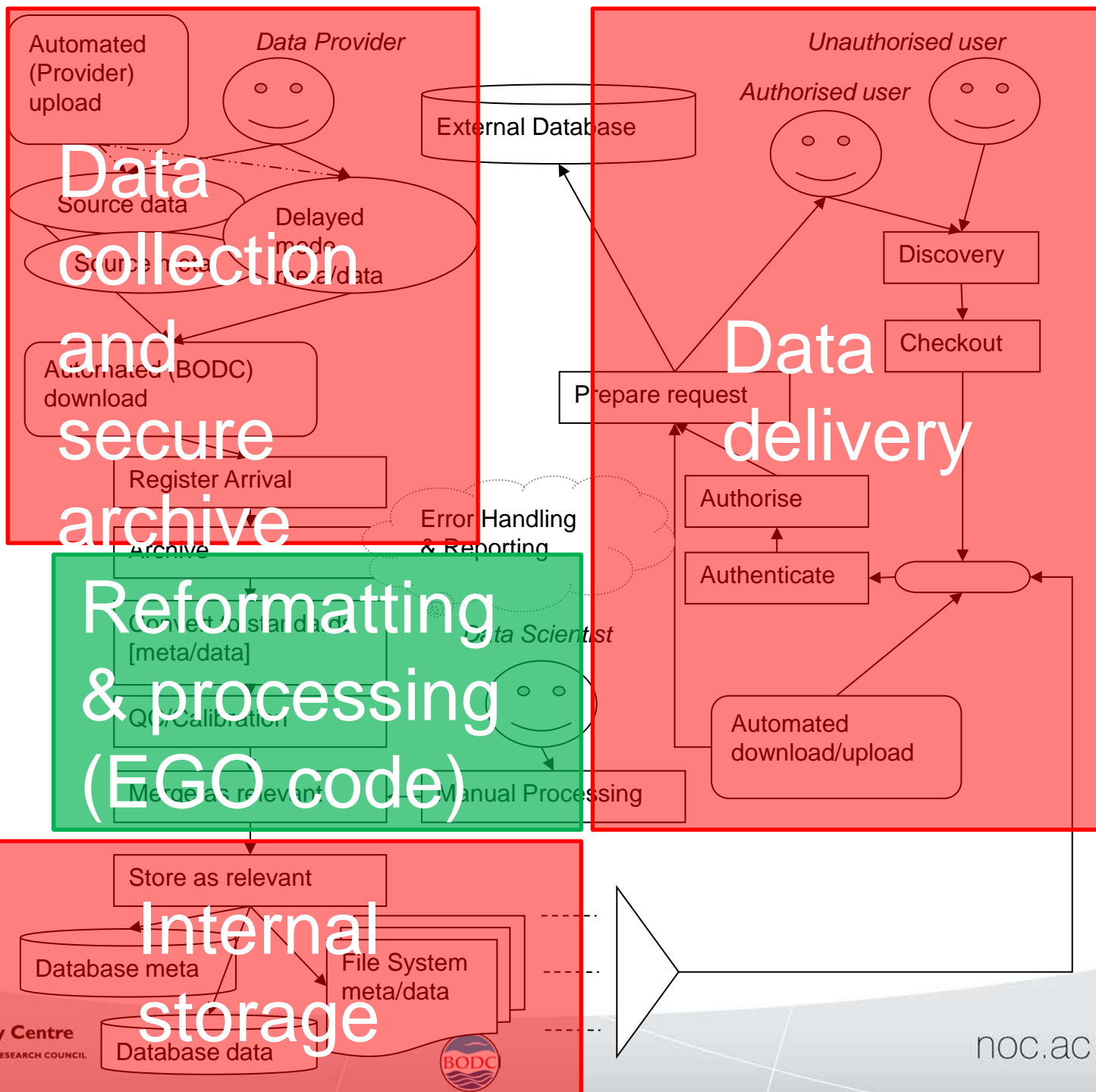


Simplified glider data workflow



- Near real-time data flow
- Delayed mode data flow





The work continues...

- Move to EGO version 1.1
- Address lack of QC code
- Standardisation/harmonisation of sensor/platform metadata
- Explore/implement Sensor Web Enablement (SWE) and Web services for improved efficiency of data exchange/delivery

Driven by several current projects (e.g. SenseOCEAN, BRIDGES, ODIP, AtlantOS...)

A favour...

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- Our international role
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- Information technology
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- Annual reports
- Presentations and papers
- Brochures and posters
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News and events

We would value your feedback

16 October 2015

BODC are reviewing our website and data delivery mechanisms. We are inviting feedback from the marine data user community about their preferences and experiences of searching and interacting with marine data holdings, both in general and more specifically those managed by the BODC.

The survey can be accessed through the following link: https://www.surveymonkey.com/r/marine_data_survey

We hope to use this feedback to improve our ability to provide our holdings to those who wish to access and use marine data.

You are invited to take a short online survey of up to 15 questions, which should take between 10 and 15 minutes to complete. Feedback will be collected anonymously but you are invited to provide contact details if there are any aspects you would be happy for us to follow up with you.

Related BODC pages

More [news and events](#)

BODC web site