

**UK OSNAP Meeting 1
7-9 May 2014, Liverpool**

Part I. UK OSNAP investigators only

Weds 7 May.

1. Welcome and apologies

Attendees:

Penny Holliday, NOC (Chair)
Ric Williams, Uni Liverpool
Nick Bates, Uni Southampton
Mark Hebden, BODC)
Meric Srokosz, NOC (RAPID)
David Marshall, Uni Oxford
Vassil Roussenov, Uni Liverpool
Andy Heath, Uni Liverpool
Stuart Cunningham, SAMS
Dave Munday, Uni Oxford
Mark Inall, SAMS

Apologies: Susan Lozier

2. Outreach and Impact

This item included:

- Who are our stakeholders? (*updates to proposal impact plan*)
- Review of activities (*so far and planned*)
- Creating a UK OSNAP community (*list of friends for meetings and communication*)
- Press releases, seminar programmes
- Involvement in NAVIS

The meeting agreed to communicate with DECC and Hadley Centre/Met Office through RAPID contacts with Meric's help. Possible contacts also through Ken Wright (DECC secondment), Emily Shuckburgh (DECC secondment), Russell Wynn (Defra secondment).

Action: Meric (jointly for RAPID and OSNAP) To communicate with NERC, expect to produce a 1 page summary of progress every 6 months. Suggest sending same report to MCCIP, ICES, OSPAR and NAFO.

Action: Penny to translate the 6 monthly report for the UK-OSNAP website.

Action: All OSNAP investigators: share studentship project info on website.

There are upcoming RAPID meetings that OSNAP might contribute to:

18-19 September 1.5 day RAPID meeting in London, with perhaps a couple of OSNAP presentations. Joint programme advisory group present.

RAPID international meeting. 21-24 July 2015 in US.

At the OSNAP PI meeting in Feb 14, it was agreed that we would have an international programme advisory group. The OSNAP steering committee decided to address this in Sep., after the first major OSNAP field work was completed. The committee will then come up with a list of (non-OSNAP) international names to recruit onto the advisory group.

Note that there is a distinction between the following:

1. "International steering committee" - members are OSNAP PIs
2. "International oversight committee" - members are not OSNAP PIs
3. "UK joint RAPID and OSNAP advisory group" - yet to be formed.

The discussion about outreach and how to maximise it was enhanced by the presence of outreach expert, Andy Heath, who gave the following advice.

The project website should be the information hub - Twitter and Facebook links always refer to website. You can use Google Analytics to learn who and where is viewing. Facebook may be history. Twitter : wide reach and users include politicians. Better to have multi-user management because twitter feeds need 24/7 monitoring. LinkedIn is used increasingly & by reporters. Videos should be short - 2-3 minutes to keep viewers attention. He recommends a cloud-based repository, e.g. Dropbox, so that if anyone takes a photo it's shared: filename should include date, format (sound/video/photo), brief description of content.

The new UK OSNAP Wordpress blog is up and running, and set up so that each post generates a tweet and FB post.

Action: Investigators to contribute to twitter posts

Action: Penny and Sheldon to make daily posts for the length of the UK OSNAP hydrographic cruise (wordpress.ukosnap.com)

UK OSNAP centres have all agreed to be partners in North Atlantic Virtual Institute (NAVIS) and we await development and to see how we can contribute. It is expected that younger/more junior staff will be the most active in NAVIS.

3. Data management

This item included:

- UK expectations for submission and availability of data
- Archiving model output
- International Data Management Policy (*revised version post-OS14*)
- Duke OSNAP data centre (*objectives, plans, timescales, expectations*)

Mark Hebden (BODC - OSNAP project data manager) - the NERC expectation is that OSNAP data will reside at BODC. BODC could be a good central repository for PIs to share data and products - can set up password protected FTP account for UK-OSNAP community. Ideally want data to be submitted in a timely manner and in as final a form as possible. UK OSNAP will likely use RAPID format for current meter data.

BODC can get near real time data from gliders pushed into global telecom system (e.g. for operational modelling).

BODC can handle model output.

BODC can "mint" DOIs to enable data citation (content is frozen when DOI assigned). It is useful if request for DOI given in advance. DOI cannot be given to embargoed data. Dataset DOIs allow tracking of users --- very useful.

UK-OSNAP data will conform to NERC data policy, which is to allow a 2 year embargo from acquisition (e.g. mooring recovery/gliders), but open access after 2 years.

UK-OSNAP Data Discovery: BODC will catalogue the data on access websites including the NERC Data Catalogue Service and MEDIN.

The group discussed the merits and pitfalls of archiving model data. It was agreed that UK OSNAP would not archive easily reproduceable output, but should store relevant versions of model code.

Action: Mark Hebden to liaise with Ric Williams and David Marshall to explore how to include their model output into BODC database.

Action: Mark Hebden to check whether BODC stores code and metadata.

The international OSNAP data policy allows individuals a 2 year embargo for their data, but all are expected to share data amongst OSNAP investigators (and collaborators) within this 2 year period. NODC cannot embargo data, so that's why the OSNAP array repository will be at Duke. The Duke data centre will probably host the OOI mooring data too.

The international OSNAP website will be used to share student project information.

4. Upcoming Meeting Schedule (national and international)

Meetings done:

First international PI meeting in Feb 14 at AGU Ocean Sciences, Hawaii
UK Kickoff May 14 Liverpool

Planned meetings:

UK progress May 15, location agreed to be Oban
2nd international meeting Apr 16 at EGU
UK progress Spring 17, location agreed to be Oxford
3rd international Feb 18 AGU Ocean Sciences

The UK OSNAP grant did not budget for a UK Meeting at the end of the project, so the group agreed that we should plan to hold one in Spring 2018 at the Royal Society.

The international Steering Committee meets as a series of conference calls, with the first in Apr 14, and plans for a meeting every 3 months from Sep 14 onwards.

The PIs carrying out fieldwork also held a fieldwork co-ordination conference call in Jan 14, with a further one planned for debrief in Sep 14. Further calls will be made as necessary.

The group proposed 6 monthly meetings, not nec. plenary, for UK modellers and observationalists.

Finally the group discussed working with Chinese scientists and engineers who are planning to work with OSNAP for capacity building. China are paying US for gliders and to learn how to deploy them. UK OSNAP might tap be able to win funds from the UK Newton Fund for this work. David Marshall will visit China on 31 May for 11 days and will raise this. Mark Inall will also investigate further.

The PI-only section of the meeting closed at this point.

Part II. OSNAP Investigators, collaborators and invitees: UK OSNAP and BOSNAP

Thursday 8 May.

1. Welcome and overview of UK OSNAP objectives within international OSNAP (Bacon)
2. Overview of UK OSNAP components (*review plans, recruitment, analysis and planned publications, 20 mins each*)
 - i) O1 UK OSNAP array - Cape Farewell Array (Holliday)
 - ii) O1 UK OSNAP array - Eastern Boundary Array (Cunningham)
 - iii) O1 UK OSNAP array - 2014 Hydrographic section (King)

 - iv) O2 Seasonal estimates of Subpolar Gyre circulation and mixing (Wilson)
 - v) O3 Subpolar Gyre heat storage and ocean heat transport convergence (Williams)
 - vi) O4 Subpolar Gyre forcing anomalies and teleconnections (Marshall)
3. Invited Talks (**15 mins each**)

Jon Robson, Uni Reading, Role of the ocean in the Atlantic Multidecadal Variability.
James Harle, NOCL.
Jan Zika, Uni Soton, The tracer contour inverse method: a frank assessment.
Bee Berx, Marine Scotland, NAACLIM and the FSC.
4. Biogeochemical questions for the subpolar gyre (chaired by Williams)

Overview of how the overturning might be important for biogeochemistry in the subpolar gyre (Williams): nutrient cycling, trace metal cycling, carbon cycling and sequestration.

(a) Nutrient cycling

Sinhue Valdes-Torres & Stephanie Henson (presentation)
General discussion of sub theme

(b) Trace metal cycling

Eric Achterberg & Alessandro Tagliabue (presentation)
General discussion of sub theme

(c) Carbon cycling and sequestration

Nick Bates & Doug Wallace (presentation)
General discussion of sub theme

The meeting ended with a discussion of what any UK biogeochemical subpolar plan for the NERC Strategic Programme Advisory Group would form: including "the why, what and how" of any science plan and emphasizing the inter-disciplinary nature, and extra leverage from US, Canadian and German partners.

Action: discussion about developing a UK biogeochemical subpolar plan to continue amongst interested partners.

Meeting closed.