# International Ocean Tracking Data Standardization

## Agenda

#### Friday 26th February 2016 3:30pm

#### Ernest N. Morial Convention Center - Room 201-202

Conference call-in information: see next page.

## Agenda & Presentations

1. **Actions from the previous meeting**

From Rob’s email 5 Feb 2016 (20 Mins)

* **ACTION Dec Xavier Hoenner: The focus of the exchange format/schema should be the “event”…the tagging /deployment event and then the recovery event and there may be biological data (mass, age, sex, etc.) associated with both of these.**
* **Reported, Hoenne, revised version circulated**
* **New Matter OBIS data exchange framework- see ppt by Appeltans circulated- Feb- Van den Putte to discuss**
* **Anton Van den Putte gave overview using Appeltans ppt**
* **Philip Goldstein added to this with further info on the background on this scheme (DataModel and exchange standard)**
* **OBIS team has 14 examples put into IPTT- not all telemetry**

**Marta (OTN)- OTN started with OBIS, sample=1 animal- not sure what the issue raised by P Goldstein re event vs animal**

**Anton comment- under OBIS model release and recovery fits into a single event not separate**

**Sara Iverson- asks what happens when an event is more than one animal eg VMT on seal interacting with multiple animals**

**PG- most events have multiple occurrences- hence top line on event core is ‘one too many’**

**PG- new for OBIS to roll this out eg seascape- ‘Combined Data’ is Ecosystem data- so for eg VMT a single occurrence could provide multiple interactions at that time**

**PG- OBIS offers simplicity/clarity- other details added onto this- keep event core as simple as possible**

**PG- this model to provide *exchange standard*- just use ‘EVENT ID’**

**Anton- for raw data keep own complex tables- but for cleaned and processed data- Exchange- use ‘EVENT-ID’**

**BB- the new OBIS data model based on Event ID instead of Occurrence ID may be good for OBIS community but necessarily for biologging community.**

**HM. A simple way to connect OBIS with biologging community is to add Event ID into exchange Stds for Acoustic and Satellite tagging data.**

**ACTION: Anton to circulate examples of implemented OBIS –ENV Data model using Event ID.**

* **ACTION Dec**- person from Costa lab to communicate the schema/database from Costa’s Lab with Xavier Hoenner.
* –Costa data file exchange with Hoenner not progressed since Dec 2015
* BUT Block Lab and Hoenner have been working together since Jan, agreed to further enhance this very constructive development with Harcourt and Proctor tentatively discussing possible Hoenner visit to BB lab
* **ACTION Dec**– Josh London trying to find a constructive place to “start” – Does it make sense to start with archival time series data and work from there? Is there a netCDF format for time series that we could look at too for exchange? Josh to discuss with Lars Boehme and Xavier Hoenner- **Still to progress, Josh absent from meeting**
* **ACTION Dec** In sync with this exploration - manufacturers (and maybe other users) could think about what the “rawest” form of each data stream is and how to record the programmers choices and any analytical thresholds (e.g. how a ‘dive’ is defined: depth/time/wet or dry, etc.) **ongoing**
* **ACTION Dec** Task team to discuss file formats (Hoenner, Boehme, McIntyre, Bejona, Roquet- see below) **ACTION** Hoenner, Boehme, McIntyre, Bejona, Roquet to connect on this point and discuss the AAT standard (I think OTN using R only at this time not Matlab). **Hoenner to report**
* **Report Hoenner**- Fabien discussed the qc to SMRU tags for CTD profiles- not much about data management- currently he is doing all the QC on CTD data – in terms of format need a relational database format rather than NetCDF- in order to put more constraints in what people can put in
* Discussion:
* **Barbara Block**- relational database for Metadata but no advantage for time series data-
* Xavier- but if want to interface via web, first put into relational database and then extract through web- Xavier- biologists not familiar with netCDF format- usually CSV or MS ACCESS
* XH- not heard from Trevor McIntyre or Lars Boehme yet
* Roger and Anton and Harcourt- Biologists majority not go to netCDF- nor be comfortable with this.
* Barbara Block - trend to go through IRDIC- coming out in relational database or flat file- KEEP Things as flexible as possible- BB have archive of flat files passed through data tables as queried
* **AGREED**- Xavier to continue to pursue the Relational Database route
* Barbara Block report what Xavier put together v similar to theirs

1. **Finalizing the exchange metadata standards**

Status, what's missing, when we expect to finish vs 1.0, where to publish the exchange stds, how to control the versions (25 mins).

1. **Implementing the exchange standards**

**Hassan Moustahfid:** Select beta testers, report lesson learned...etc (25 Mins).

Beta testing necessity to ensure exchange standard works- -lesson from AAT testing- to be reported at the next meeting

Barbara Block - first step - metadata tables

Unified way to transfer data

Barbara Block - 2nd step is a single tag e.g, MK9 or MK10 then datasets from Acoustic, Archival and Satellite tagging.

Barbara Block - need particular ‘tailored’ models for particular tag type

Then test exchange at this level –with refinement

**Action**

IMOS biologging and ATN Biologgers work on metadata

THEN do this with biologging -tag data

THEN

OTN do same thing with acoustic data

Third level- SMRU team outline how share CTD data (Lars Boehme?)

How data model works for CTD data tag

**Action:**

Hoenner and Harcourt to contact Boehme

1. **Establishing a global ocean tracking data sharing framework**

**Peter Walsh and Hassan Moustahfid:** Discussion of the necessary components of a framework for managing global data sharing and steps required to establish (30 Mins).

GOTdata – see ppt

Barbara Block, Sara Iverson and Rob Harcourt supported the idea to develop the GOTdata Framework

Anton- CCO with community norms (CCBI)- uk based countries- expectations on data referencing

PW- what about QC

Anton- OBIS has third structure that will provide QC- but preferred mode is QC prior to entry- also ensures QC at coalface ensures understanding of QC

SI- OTN is designed to share data but ensure CI and HQP protected for a time frame

Look at developing or comparing models

**ACTION**- PW lead with OTN involved, Hassan has volunteered (need to check with his office) and Anton nominated Ward from OBIS- request Mike Weise to be involved and -**Barbara Block** to support

XH- would like to look at schema from OBIS database

ANTON- OBIS will share –

**ACTION**- Anton to enable

1. **Actions, Wrap up**

(20 Mins)

## Invitees

Present: Rob Harcourt, Barbara Block, Xavier Hoenner, Marta Mihoff, Samantha Simmons, Hassan Moustahfid, Philip Goldstein, Peter Walsh, Donna Kehoe, Roger Proctor, Emilio Mayorga, Anton van den Putte, Alan Swithenbank, Stephanie Smedbol, Sara Iverson.

Apologies: Jonathan Pye, Clive McMahon, Michael Fedak, Michael Weise, Lars Boehme, Lenore Bajona, Daniel Costa, Melinda Holland, , Sean Hayes, Bernie McConnell, Erik Høy, Stephanie Smedbol, Baldur Sigurgeirsson, Frederick Whoriskey, Fred Bailleul, Ward Appeltans, John Payne.

## Conference Call Information

Toll free: 1-877-417-3954  
Outside US: 1-517-233-7545

Passcode: 9119817 #

WEBEX MEETING DETAILS

Meeting Number: 441703233

Meeting Passcode: (This meeting does not require a password.)

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