

A FUTURE FOR A COMMON BIO-LOGGING LANGUAGE?

DISCUSSIONS ABOUT DATA STANDARDS AND
INTEROPERABILITY IN THE BIO-LOGGING WORLD



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IBLS AND DATA STANDARDS

- A goal mentioned in the constitution of the IBLS: “standardize data protocols to make the various marine and terrestrial databases interoperable”.
- The intention is to gather the diversity of the initiatives, to support each other under the Society hat....
- ...hence, the idea of a workshop at BLS6.
- Baseline work: what do ‘standardisation’ and ‘interoperability’ refer to?
- Not a task for one person!! Hence...

WORKSHOP ORGANIZERS

Francesca Cagnacci | Edmund Mach Foundation, Italy

Sarah Davidson | Max Planck Institute for Ornithology, Germany, Ohio State University, USA

Lee Belbin | CSIRO, Atlas of Living Australia, Australia

Hamish Campbell | Charles Darwin University, Australia

Peter Desmet | Research Institute for Nature and Forest, Belgium

Holger Dettki | Swedish University of Agricultural Sciences, Sweden

Bernie McConnell | University of St Andrews, UK

Peggy Newman | Museum Victoria, Atlas of Living Australia

Alessandro Oggioni | Institute for Electromagnetic Sensing of the Environment, CNR, Italy

Ferdinando Urbano | Edmund Mach Foundation, Italy

TODAY'S AGENDA

- Biologging data have a typical flow....
- ...that we tried to mirror in our discussion today.
- First, the sensor to database standards.....then, the database to database standards.
- An open call for those in the biologging world that have addressed these issues- and beyond (manufacturers, biodiversity repositories, etc...)
- Questionnaires, contacts by email, invitation to be present and present
- Open discussion!! Perspectives for a permanent working group?

TODAY'S AGENDA

Part 0. Introduction: The need for standards in the bio-logging world	
9.00-9.10	Biologging data standardisation and interoperability in the context of the IBL5 (Fran Cagnacci)
9.10-9.25	The big picture: Importance of sharing, archiving, and interoperability- current state and gaps (Sarah Davidson)
9.25-9.40	The bio-logging data cycle and where standards fit in (Holger Dettki)
9.40-10.15	Types of interoperability (semantic/structural) & other data standardisation related concepts (Alessandro Oggioni)
10.15-10.30	Coffee Break
Part 1. Bio-logging sensor to database standards	
10.30-10.45	Sensor to DB: users' requirements (Holger Dettki)
10.45-11.00	Report of the manufacturer survey. Comments (Ferdinando Urbano)
11.00-11.20	Introduction to OGC's SensorML and O&M: example of a possible solution (Alessandro Oggioni & Holger Dettki)
11.20-11.30	When manufacturers and end users coincide: an example of data flow in marine bio-logging (Bernie McConnell)
11.30-12.30	Other examples from the manufacturing world: Desert star, and others (open call). Open discussion.
12.30-13.30	Lunch Break

TODAY'S AGENDA

Part 2. Bio-logging database to database standards	
13.30-13.35	Recap: objectives of the day and achievements of the first part of the workshop (Fran Cagnacci)
13.35-13.45	Recap: types of interoperability (semantic/structural) & other data standardisation related concepts (Alessandro Oggioni)
13.45-14.00	Ideas from biodiversity surveys and database to database interoperability: requirements (Peggy Newman & Holger Dettki)
14.00-14.15	Integration of ZoaTrack and Atlas of Living Australia using Darwin Core (Peggy Newman)
14.15-14.30	OBIS-ENV-DATA (Daphnis De Pooter)
14.30-14.45	Shared marine bio-logging database schema (Xavier Hoenner)
14.45-15.00	Oceanographic In-situ data Interoperability Project (Camrin Braun)
15:00–15:30	Coffee Break
Part 3. Wrap up: towards a permanent working group on biologging data standards and int?	
15:30–17:00	Other database interoperability examples (open call). Open discussion.