SLGO Workshop – Jan 2020

Facilitators:

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**Specifics of the initial request:**

An existing biodiversity application is introspecting and serving data from an internally developed database that is very close to OBIS-compliant. Database designed to run the portal and is not necessarily an ideal data representation. Data and metadata live in this portal and a CKAN instance. Looking for a system-to-system approach to meeting OBIS compliance without designing too-disparate data pipelines. Considering all options and welcoming advice on meeting these goals.

**Goals of the Workshop:**

Give attendees an idea of what OBIS is and how it functions, why and how to become compliant with OBIS data and metadata formatting and data policy, how OBIS reporting pipelines work. Allow time to investigate solutions to meeting OBIS-compliance from the existing biodiversity data portal at SLGO. Build prototype or work plan to do so.

**Day 1**

**09:00 -**  **Welcome, Introductions, goals for the workshop**

Intro to OBIS – Jon Pye

Intro to WoRMS – Jon Pye

**10:20** **Break**

**10:35 -** **Darwin Core I**

History of DarwinCore

Occurrence Core and Event Core

Occurrence, Location, Time, and Quantity in Darwin Core

**12:00 Lunch**

**13:00 - Darwin Core II**

Darwin Core Archives – how to represent DwC schemas and types

Occurrence Core, MeasurementOrFact, Event Core

Representing Event Core in DwC Archives

Ecological Metadata Language and OBIS

**14:20**  **Break**

**14:35 - Data processing, taxon matching, QC using the OBIS and WoRMS APIs**

**WoRMS**

Accessing WoRMS webservices (REST API)

**OBIS**

Using the OBIS Data mapper to discover OBIS held datasets

OBIS API v3 – using the REST API

**Day 2**

**09:00** - **Becoming / contributing data to an OBIS Node**

Process and organizational hierarchy

Technical / Policy implications

**OBIS Guidelines on Data Sharing and Use**

Motivations for sharing data for curation

License selection and OBIS data license

Researcher control of additional restrictions w/ licensing

**10:20 -** **Break**

**10:35 - Registering Datasets with OBIS IPT (and GBIF)**

Use the OBIS IPT to register datasets and produce EML entries.

**12:00 - Lunch**

**13:00 - Hands-on session 1 – mapping SLGO datasets to DwC archives**

Select dataset to map and migrate the data and metadata to a DarwinCore archive

Register the resulting archive with a test IPT, building the EML

**14:20 - Break**

**14:35 - Hands-on session 1 – cont. – Mapping datasets from OGSL.ca/bio to DwC Occurrence Core**

Demo – mapping of output from ogsl.ca/bio extract to DwC terms.

Collaboratively map data flow from SLGO backend to DwC archives

**Day 3**

**09:00**  - **Hands-on session 2 – User-directed project(s)**

Will identify one or more useful OBIS-adjacent projects / data pipelines / outcomes that SLGO staff identify as important and build towards implementation of those outcomes

Suggested topics:

Work towards MVP of OBIS-compliant archives for SLGO biodiversity data

Build process to map and keep current SLGO-held data as it’s currently ingested or held into updating DwC archives in either OBIS Canada or a custom SLGO IPT

Build Python implementations of robis and/or obistools

**12:00 - Lunch**

**13:00 - Infrastructure exercise – deployment [plan for] test-mode IPT for use at SLGO**

Deploy or plan the deployment of an Integrated Publishing Toolkit to SLGO infrastructure. Continue to work in teams on user-directed projects from Hands-on Session 2

**14:20 - Break**

14:35 - **Question and Answer, Wrap-up and Next Steps**

Answer questions, evaluate workshop content, and plan necessary follow-ups