OBIS Canada / DFO Workshops 2021

Facilitators:

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**Schedule**

4 days of virtual workshops, start time is: 9am PST (12pm AST)

Each day, participants can ‘arrive’ to the virtual workshop ~1hr early to check comms, socialize and get help setting up with programming environments, etc.

**Day 1**

09:00: Intro to OBIS - (see PPT 01)

Intro to WoRMS

Workshop Schedule

**10:20 Break**

10:35 Darwin Core I - (see PPT 02 and practice data set)

History of DarwinCore

Terms, Definitions, Resources for End Users

Occurrence/Location/Time and Quantity in Darwin Core

- walkthrough occurrence/event core tables

OccurrenceCore vs EventCore

Quiz : DwC Terms (DwC Quiz.ipynb)

**12:00 Lunch**

13:00 Darwin Core II - (see PPT 03)

DarwinCore Archives (DwC-A)

- first look at r obistools for creating archive

Minimum required information for a DwC-A

How to represent DwC schemas and types

Occurrence Core + Measurement or Fact (MoF)

**14:20 Break**

14:35 Darwin Core III – (see PPT 03)

Event Core in DwC-A

OBIS-ENV-DATA

- working with OBIS ENV in r

(Quiz) - (Data Formats Quiz.ipynb)

15:30 Day 1 Q+A and Feedback (need to create a new set for upcoming workshops)

**Day 2**

09:00 Ecological Metadata Language (EML) and OBIS - (see PPT 04)

(Quiz)

Hands-on Session 1 (see 1\_robis\_walkthrough.rmd)

- Data Formatting and processing in R,

Taxon matching,

QC using robis and obistools

**10:20 Break**

10:35 Hands-on Session 1 cont.

**12:00 Lunch**

13:00 WoRMS - accessing WoRMS web services via REST API

Discovering OBIS-held datasets using the OBIS mapper

**14:20 Break**

14:35 Discovering OBIS-held datasets Using the REST API

Using the robis and obistools packages (see 2\_data\_qc.rmd)

(Quiz) - (Data Processing Quiz.ipynb)

15:30 Day 2 Q+A and Feedback (need to create a new set for upcoming workshops)

**Day 3**

09:00 Publishing your data via OBIS Canada - (see PPT 05)

Process of submitting / updating DwC archives to OBIS Canada

* OBIS IPT walkthrough
* verify that everyone’s login works!

OBIS, OBIS Canada and institutions that contribute to it

**10:20 Break**

10:35 OBIS Guidelines on Data Sharing and Use

Motivations for sharing data

Licensing your dataset, Creative Commons Licenses, OBIS default data license, implications

(Quiz)

**12:00 Lunch**

13:00 Hands-on Session 2 - Mapping your (user-provided) dataset into a parse-able DwC-A / EML package (Occurrence or Event Core) and submitting it to OBIS Canada.

* [TODO] Working with a clean data set if needed

**14:20 Break**

14:35 Hands-on Session 2 continued

15:30 Check-in, Day 3 Q+A and Feedback (need to create a new set for upcoming workshops)

**Day 4**

09:00 Hands-on Session 3 (see 3\_visualizations.rmd)

- Finding, collecting, visualizing and analyzing data from DwC archives provided from OBIS’s data portal, or via the robis package (Binder / JuPyTeR notebook session.

**10:20 Break**

10:35 Hands-on Session 3 Continued

**12:00 Lunch**

13:00 Contributing to OBIS and OBIS Canada beyond datasets (see PPT 06)

As a data curator

As a collections manager

As a software developer

As a taxonomic expert

**14:20 Break**

14:35 Recap Quiz and supplemental hands-on data mapping time if available.

[TODO] hello and talk by Maria Cornthwaite, OBIS Canada slack etc

15:30 Continuing Engagement, Day 4 Q+A, and Feedback (need to create a new set for upcoming workshops)

**Useful Links**

<https://classroom.oceanteacher.org/enrol/index.php?id=430> Ocean Teacher related course

<https://youtu.be/4rVEkWOhkoM> Introduction to IOC, IODE, OBIS, OTGA by Ward Appeltans.

<http://ipt.iobis.org/obiscanada/> OBIS Canada