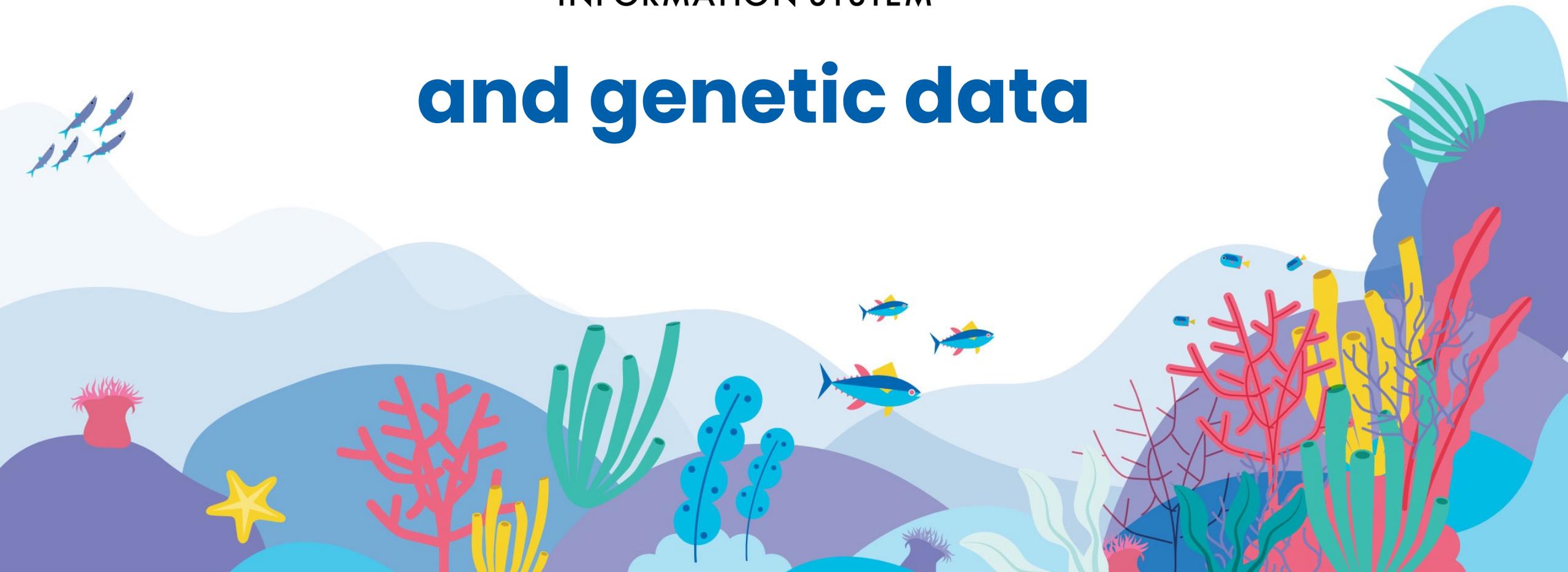


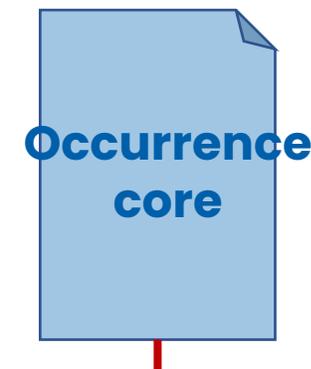
OCEAN BIODIVERSITY
INFORMATION SYSTEM

and genetic data



DNA-derived data extension

- Enables the addition of sequences and key metadata to OBIS



Other Formats

[PDF file](#)

Contribute

 [Improve this document](#)

 [Create an issue](#)

 [Edit on GitHub](#)

Publishing DNA-derived data through biodiversity data platforms

Anders F. Andersson · Andrew Bissett · Anders G. Finstad · Frode Fossøy · Marie Grosjean · Michael Hope · Thomas S. Jeppesen · Urmas Kõljalg · Daniel Lundin · R. Henrik Nilsson · Maria Prager · Cecilie Svenningsen · Dmitry Schigel – Version 71ae0fa, 2021-07-08 08:52:12 UTC

This document is also available in [PDF format](#).

First OBIS genetic dataset

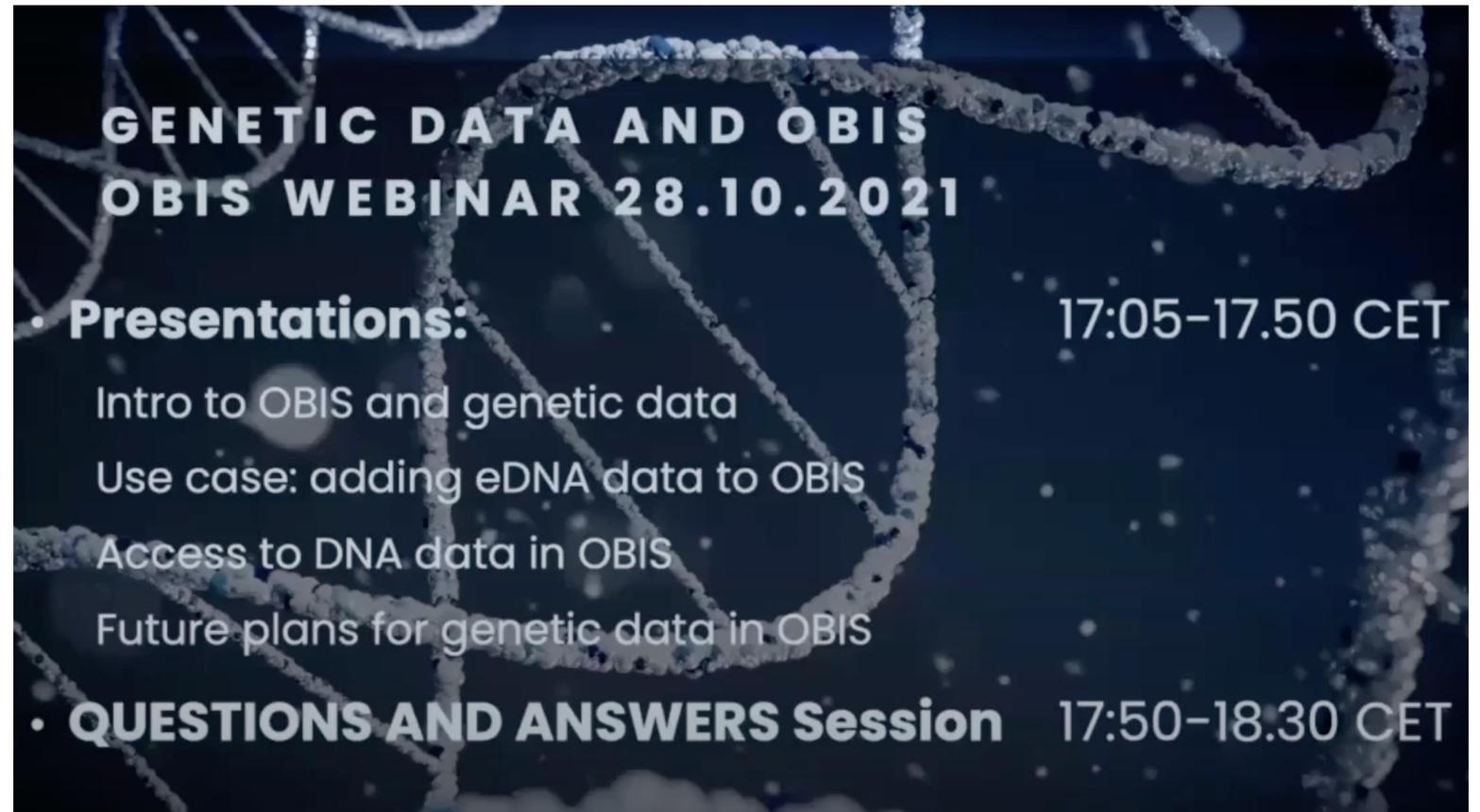
18S Monterey Bay Time Series: an eDNA data set from Monterey Bay, California, including years 2006, 2013 - 2016

URL https://www1.usgs.gov/obis-usa/ipt/resource?r=18s_monterey_bay_time_series_edna
Repository URL <https://www1.usgs.gov/obis-usa/ipt/>
Node **OBIS USA**
Published 2022-02-17 00:39
First registered 2021-09-23 08:23

- 64,841 records based on metabarcoding of the 18S gene
- All code used for formatting available on github as an OBIS use case for genetic data
<https://github.com/iobis/dataset-edna>
- Francisco Chavez - Principle Investigator (chfr@mbari.org)
- Kathleen Pitz - Research Associate (kpitz@mbari.org)
- Diana LaScala-Gruenewald - Point of Contact (dianalg@mbari.org)

OBIS webinar on genetic data

- https://www.youtube.com/watch?v=KKh_Hd8zybs
- Over 100 participants

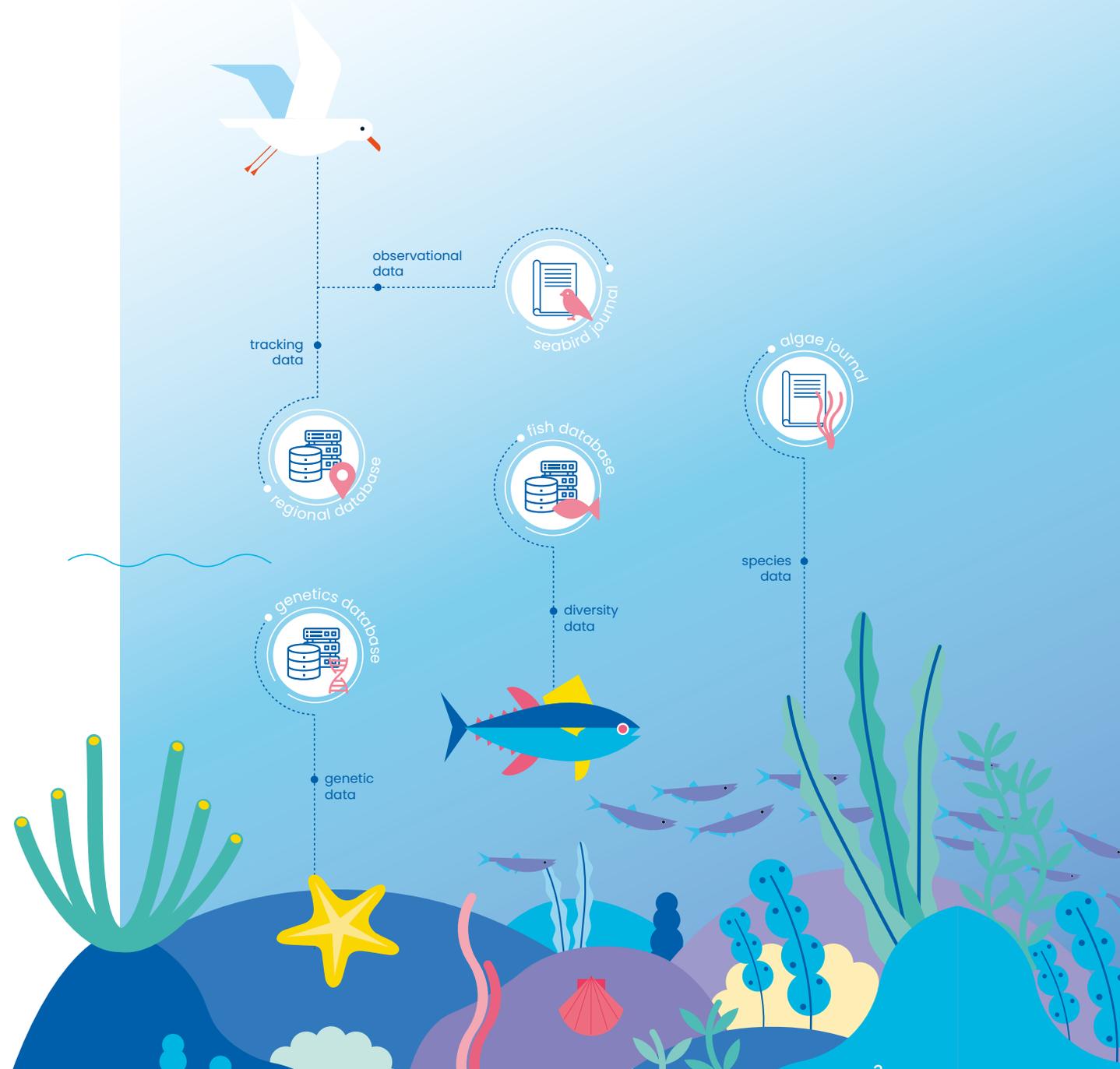


GENETIC DATA AND OBIS
OBIS WEBINAR 28.10.2021

- **Presentations:** 17:05–17.50 CET
 - Intro to OBIS and genetic data
 - Use case: adding eDNA data to OBIS
 - Access to DNA data in OBIS
 - Future plans for genetic data in OBIS
- **QUESTIONS AND ANSWERS Session** 17:50–18.30 CET

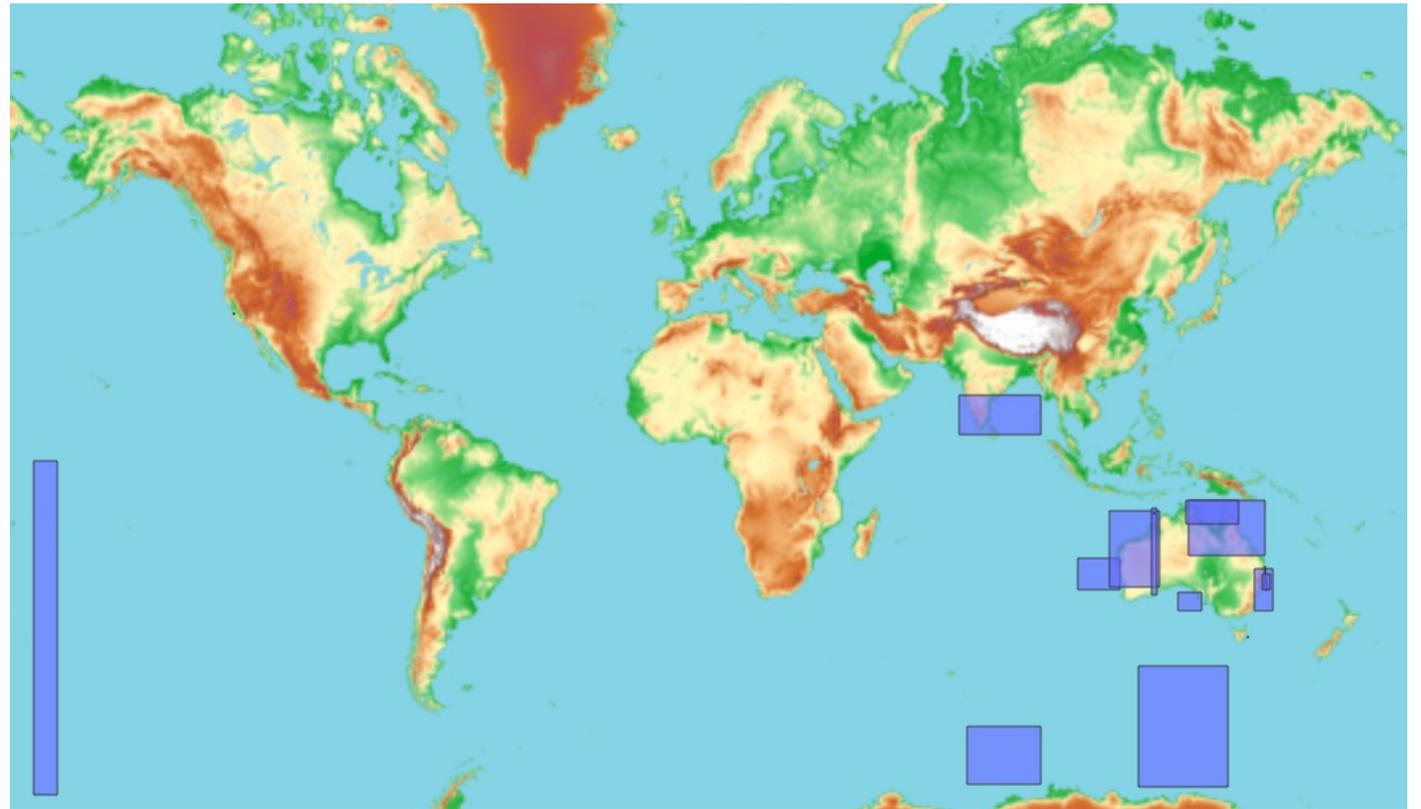
OBIS special cases

- Taxonomic backbone: World Register of Marine Species
- Unknown sequences recorded as the highest rank available: Biota
- Environmental information: Extended measurement or Fact



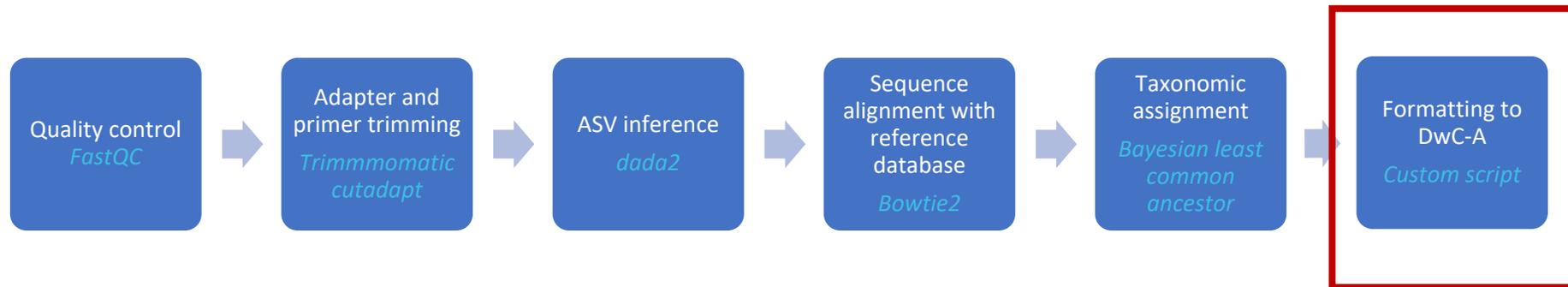
OBIS current genetic datasets

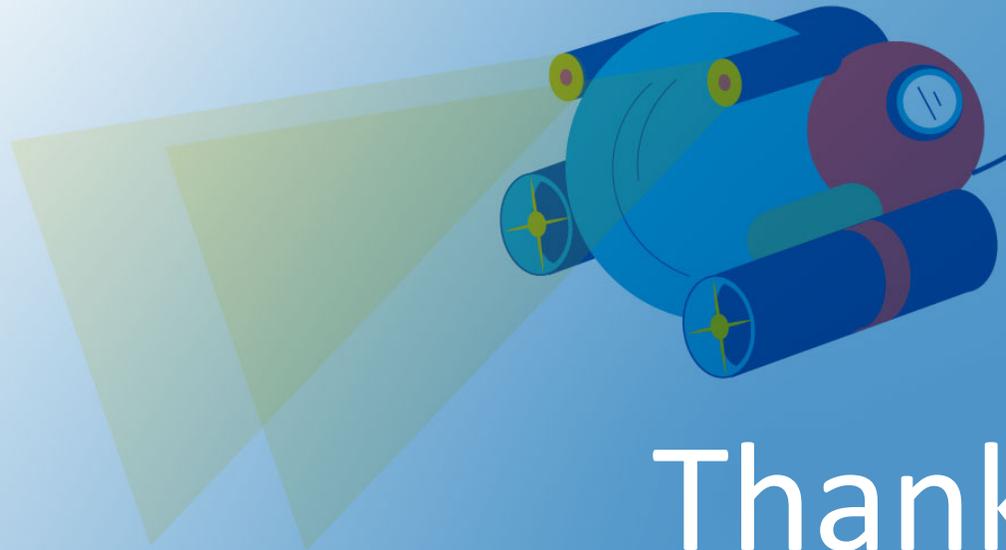
- 24 datasets
- 16,834,825 records
- Majority of the data so far is microbial



Future plans

- Further development of the PacMAN bioinformatics pipeline
 - Needs from the community?
- Discussions on how to deal with the taxonomic backbone for microbes with WoRMS





Thanks

