

**Cross-MBON Virtual Meeting
Toward a National Operational MBON
Applied Ecosystem Function Case Studies**

February 1-2 & 9-10, 2021; 1:00-4:00 pm ET each day

Meeting link:

Cross-MBON Meeting

Please join the meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.co198828037m/join/>

You can also dial in using your phone.

United States: +1 (571) 317-3116

Access Code: 198-828-037

Overall meeting goal: Advance the development of a national, stakeholder-driven operational MBON

Meeting objectives include:

- To identify and explore needs for long term biodiversity data collection and potential for new partnerships
- To discuss among MBON and operational partners how to bring MBON thematic teams and projects together to effectively support operational requirements, using the common observing and analysis elements we use in all/each of the MBON teams
- To better link US MBON projects towards a data management strategy that aligns with resource management requirements and that is based on internationally-accepted standards

DRAFT AGENDA

Feel free to edit communal [Notes](#).

Monday, February 1

RECORDING OF SESSION:

<https://usf.box.com/s/z295uo8nmd2ytidl8awqdmr58vsruhi>

CHAT RECORD: <https://usf.box.com/s/5b88vzzj5aje9ca2dmi6g8gwumres3u>

Participants - please add your name/contact information here:

<https://docs.google.com/spreadsheets/d/14P7LfBboloueev9vYNLQfU6I9Jov63GX-prp3YDNHuw/edit?usp=sharing>

1 pm – 2:20 pm Opening Plenary

Welcome and PI Introductions (name, institution, and MBON project); agenda and objectives (Gabrielle Canonico, 10 min)

Applications Keynote: Ecosystem services and operational biodiversity observations (Jason Landrum, Project Officer, Lenfest Ocean Program, 20 min)

US MBON Update: Discussion of MBON Project Summaries and Key Accomplishments (Jeff Runge, 20 min)

Group Discussion (Facilitator: Chris Simoniello, 30 min)

2:20 pm - 2:30 pm Break

2:30 pm – 4 pm [Data management progress and planning](#): defining actions for X-MBON data management activities that point to operational/management solutions (Abby Benson, Matt Biddle)

Goal: This session seeks to better link US MBON projects towards a data management strategy that aligns with resource management requirements and that is based on internationally-accepted standards (Darwin Core/DwC for taxonomic records, genomic standards). Outcomes would be an updated inventory of X-MBON datasets (legacy or new), convergence on a data management strategy, and outline of joint MBON collaborative activities.

Each project will provide a 10-minute update including:

- List of datasets collected and used in the MBON framework (to be submitted/updated before the meeting)
- Data processing strategies
- Are project data formatted in Darwin Core or being prepared for reformatting?
 - Are they in OBIS/GBIF?
 - If not DwC, what best practices are you using?
- eDNA and other omics data standards and sharing / status?
- Do data have a DOI?
- Are they in an ERDDAP?
- Are they archived?
- What are your next steps, including plans for additional datasets?
- *Example application in a possible or actual operational/management setting.*

Summary slides from Matt and Abby:

<https://docs.google.com/presentation/d/1EbLbuzHZzTFzNFgpwv-muz1x5jGvnW-GIzV0KJQ6MRM/edit?usp=sharing>

Tuesday, February 2

RECORDING OF SESSION:

<https://usf.box.com/s/h20m5gak2hzlsqpa5vqs7epvd6bk815d>

CHAT RECORD: <https://usf.box.com/s/zm2qqylhxuynnazi98fkuvu8n6ripdwt>

Participants - please add your name/contact information here:

<https://docs.google.com/spreadsheets/d/14P7LfBboloueev9vYNLQfU6I9Jov63GX-prp3YDNHuw/edit?usp=sharing>

1:00 pm – 2:20 pm User Roundtable: Partner Requirements for Biodiversity and Ecosystem Function Monitoring and Data Access (Moderator: Mark Monaco, Director, Marine Spatial Ecology Division, NOAA National Centers for Coastal Ocean Science)

Goal: Discussion with invited external users to identify and explore needs for long term biodiversity data collection, and potential for new partnerships

User roundtable (5 minute lightning remarks + 5 minute questions after each speaker):

- Alan Leonardi, Director, NOAA Ocean Exploration and Research (confirmed)
- Catherine Coon, BOEM Alaska Studies Chief (confirmed)
- Charlie Stock, Research Oceanographer, NOAA/Geophysical Fluid Dynamics Laboratory (confirmed)
- Mitchell Tartt, Chief, Office of National Marine Sanctuaries Conservation Science Division (confirmed)
- Laura Lorenzoni, Program Scientist, NASA Ocean Biology and Biogeochemistry Program, (confirmed)
- Erin Satterthwaite, California Cooperative Oceanic Fisheries Investigations (CalCOFI) Coordinator, California Sea Grant Program (confirmed)

Questions and discussion

2:20 pm - 2:40 pm Break

2:40 pm – 4 pm Biodiversity and Ecosystem Function Workshop (Jeff Runge)

The MBON Biodiversity and Ecosystem Function (BEF) Working Group met several times in 2020 to discuss integration of MBON thematic teams and projects to effectively support application to ecosystem services.

Agenda:

1. Members of the working group participated in a joint workshop with MODIV (Modelling Different Components of Marine Plankton Biodiversity), a European group of ecosystem modellers. The results of this workshop will be briefly reported.
2. Following the earlier roundtable panel discussion and Monday's summary presentation of present connections between biodiversity observing and ecosystem services within each MBON project, there will be a general discussion identifying common data sets, protocols and analyses linking biodiversity to ecosystems services and operational requirements where possible across MBON projects.
3. Identification of other common data sets to be added with further discussion and development by the BEF working group.
4. Discussion of the possibility of a review paper or document for the MBON website linking biodiversity observations to ecosystem services

Tuesday, February 9

Participants - please add your name/contact information here:

<https://docs.google.com/spreadsheets/d/14P7LfBboloueev9vYNLQfU6I9Jov63GX-prp3YDNHuw/edit?usp=sharing>

1 pm – 1:20 pm Building an operational MBON: Vision and opportunity (Cisco Werner, Director of Scientific Programs and Chief Science Advisor, NOAA Fisheries)

1:20 pm - 2:20 pm eDNA workshop (Francisco Chavez)

Summary of cross-MBON eDNA meetings and community workshops
Unveiling of protocols and how to have MBON projects use them
Data management
eDNA Decade Programme

2:20 pm - 2:40 pm Break

2:40 pm – 4 pm [MBON Seascapes](#) access, applications and next steps: Integration into MBON projects and data products Workshop (Maria Kavanaugh, Enrique Montes, Joaquin Trinanes)

- What are MBON Seascapes, where do they live, what do they tell us, how are they used?
- Utility of Seascapes for coastal applications
- Making Seascapes available on Google Earth platform
- Seascape spatial and classification downscaling
- Seascapes [info](#) and access to data via [CW](#).
- Linkages with Google Earth Engine?

Wednesday, February 10

Participants - please add your name/contact information here:

<https://docs.google.com/spreadsheets/d/14P7LfBboloueev9vYNLQfU6I9Jov63GX-prp3YDNHuw/edit?usp=sharing>

1 pm – 1:20 pm Applications Keynote: Linking Sound to Ecosystems and Biodiversity in the Context of MBON (Kyle Becker, Office of Naval Research Ocean Acoustics Program)

1:20 pm - 2:20 pm BioSound and BioTrack

BioSound (Neil Hammerschlag, Kate Stafford, 30 min)

- Introduce and present the vision for the BioSound WG
- Give a short 'case-study' presentation of how soundscape data is being used to monitor biodiversity in the arctic (Presentation by Kate)
- Q&A

[BioTrack](#) (Neil Hammerschlag, Bill Woodward, 30 min)

- Vision for the BioTrack Working Group
- Introduce the ATN DAC for assimilating tracking data used in BioTrack, including revealing some of its mapping and visualization tools (present and planned). Explain benefits of including data into the DAC and terms of use.
- Explain/show process of tracking data ingestion into the ATN DAC.
- Discuss the role that the ATN DAC can/will play in the aggregation and visualization of passive acoustic data
- Discussion and Q&A

2:20 pm - 2:40 pm Break

2:40 pm – 4 pm Closing Plenary: Engaging in a team XMBON effort (Bob Cowen, Moderator)

Goal: Identify commitments and next steps to pursue together after this meeting

Possible guiding questions:

- What ecosystem functions are cross-cutting and crisp / relevant enough to focus XMBON efforts?
- Reflect on what we have heard - suggestions from keynote speakers and discussions
- Strategy for next year by each theme lead (Ecosystem Function, Soundscapes/Animal Tracking, Seascapes, eDNA)
- How do we approach the next NOPP XMBON call
- Did any case studies/demonstrations of cross-MBON success come to light?
- What are possible cross-MBON projects that highlight user-driven data applications?
- What project can we collaborate on to demonstrate cross-MBON value to users?
- How/where might we communicate some of these successes?
- Next steps: How do we approach the next NOPP XMBON call?