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Intergovernmental
Oceanographic
Commission

Workshop Agenda

Linking biodiversity data and data on ocean acidification

20 -21 April 2026

University of Copenhagen, Marine Biology Section
Strandpromenaden 5, Helsingør, Denmark

Background and Expected Outcomes:

The workshop will evaluate two analytical workflows developed within the project:

1. A rate-of-change workflow for detecting biological response to carbonate chemistry changes in long-term time series.
2. A phenology shift detection tool for identifying changes in seasonal dynamics.

Participants will also have the opportunity to apply the tools to their own datasets to evaluate transferability and real-world performance.

Participants will:

1. Critically evaluate the scientific basis of the tools, including the assumptions, statistical approaches, and the correctness of the analytical workflows.
2. Assess the appropriateness of the methods for ecological time-series analysis, and identify situations where the approaches may produce misleading or unreliable results.
3. Provide feedback on usability, including clarity of the workflow, ease of application, and interpretability of the outputs.
4. Identify potential limitations, data requirements, and types of datasets where the tools may fail or require modification.
5. Discuss potential research applications, including case studies or research questions where these tools could enable new insights. Participants are encouraged to consider applying the workflows to their own time-series datasets to evaluate transferability.

Online participation:

<https://teams.microsoft.com/meet/31580276861154?p=aU8aQm41zFUMGSovnA>

Meeting ID: 315 802 768 611 54

Passcode: 5oM2ve2V

Monday, 20 April 2026	
14:00-14:10	Welcome by hosts and organizers
14:10 -14:30	Conceptual foundations of the rate-of-change (RoC) workflow and phenology shift detection (PSD) tool
14:30-15:30	RoC and PSD workflow architecture
15:30-15:45	COFFEE BREAK
15:45-16:30	Discussion on statistical and computational foundations
16:30-17:00	Input data structure and preparation requirements
17:00-17:30	Hands-on dataset validation (participant data), preparing data for Day 2 runs.
Tuesday, 21 April 2026	
9.00-9:45	PSD tool: guided run and interpretation (pre-selected datasets)
9:45-10:30	PSD analysis on participant datasets
10:30-10:45	COFFEE BREAK
10:45-12:00	RoC workflow: guided run and interpretation (pre-selected datasets)
12:00-13:00	LUNCH
13:00-14:30	RoC workflow on participant datasets
14:30-14:45	COFFEE BREAK
14:45-15:45	Open discussion about limitations, sensitivity, and failure cases
15:45-16:30	Final remarks and structured feedback



Ocean Acidification
International
Coordination Centre
OA-ICC

Ocean Acidification Biodiversity Task Force

22 -23 April 2026

University of Copenhagen, Marine Biology Section
Strandpromenaden 5, Helsingør, Denmark

Background and Expected Outcomes:

The world is living through a biodiversity crisis. The rapid pace at which the number of species have declined in recent decades has led to the assumption that a mass extinction is under way. Ocean acidification (OA) has been identified as a potential driver for biodiversity loss with consequences for marine ecosystems and the communities that rely on them for food and livelihoods. The UN Convention on Biological Diversity (CBD) has mandated member countries to actively combat this biodiversity crisis, and many are putting action plans in place for that purpose. However, there is no consensus on indicators to quantify and qualify the consequences of OA on biodiversity and management options. In a first workshop in April 2026, the biological working group of GOA-ON, supported by IOC and the OA-ICC, invites interested scientists and stakeholders to evaluate the current knowledge on the impact of OA on biodiversity and current best practices, identify key gaps in knowledge and propose strategies and best practices, as well as support the identification of approaches appropriate to assess the impact of ocean acidification on marine biodiversity within the EEZ (CBD) and beyond (BBNJ).

Participants are asked to study the agenda and prepare discussion points for the different agenda items. Participants are encouraged to share relevant information and literature ahead of the meeting.

Online participation:

<https://teams.microsoft.com/meet/32650239468778?p=8miz0wknpechTTzgfG>

Meeting ID: 326 502 394 687 78

Passcode: BJ6sF3Gy

Wednesday, 22 April 2026	
9:00-9:15	Welcome and workshop objectives (workshop organizers)
09:15-09:30	Tour de Table
09:15-09:30	Biodiversity an ecosystem function critical for a healthy and productive ocean – Sam Dupont and Steve Widdicombe
9:30-9:50	BBNJ – Ward Appeltans (IOC, OBIS) TBC
9:50-10:15	Biodiversity indicators and how they can inform policy/decisions (Dominic Pattinson, The Global Ocean Biodiversity Initiative (GOBI))
10:15-10:30	Coffee break
10:30-12:00	10-min presentations / case studies from workshop participants <ul style="list-style-type: none"> • Natalija Suhareva • Steve Widdicombe • Sam Dupont • Bayden Russell • Inga Kirstein • Yuri Artoli • Erin Satterthwaite
12:00-13:00	LUNCH
13:00-13:30	Group discussion: What do we know about OA impacts on marine biodiversity? – Moderator: Kirsten Isensee <ul style="list-style-type: none"> • Current (ecosystem-level) knowledge, current tools and techniques • Tipping points, proxies, ecosystem changes/shifts
13:30-14:30	10-min presentations / case studies from workshop participants <ul style="list-style-type: none"> • Helen Findlay • Ben Harvey • Per Juel Hansen • Claudine Hauri • Todd O'Brien • Georgina Cepeda
14:30-15:00	Group discussion (continued): What do we know about OA impacts on marine biodiversity? – Moderator: Kirsten Isensee <ul style="list-style-type: none"> • Current (ecosystem-level) knowledge, current tools and techniques • Tipping points, proxies, ecosystem changes/shifts
15:00-15:30	OA in the Global Biodiversity Framework - OA Indicator, process, timeline, needs from scientists (Joe Appiott)
15:30-15:45	Coffee Break
15:45-16:05	10-min presentations / case studies from workshop participants <ul style="list-style-type: none"> • Kristy Kroeker • Marco Munari

	<ul style="list-style-type: none"> • Guillermo Diaz-Pulido
16:05-17:15	<p>Group discussion: What are the main knowledge gaps on OA impacts on biodiversity? – Moderator: Lina Hansson</p> <ul style="list-style-type: none"> • New tools and techniques (eDNA...) • Modeling
Thursday, 23 April 2026	
09:00-09:10	<p>10-min presentations / case studies from workshop participants</p> <ul style="list-style-type: none"> • Guillermo Diaz-Pulido
9:10-9:20	<ul style="list-style-type: none"> • Summary of discussions from Day 1 • Remind goals of meeting and expected outcomes (report/document to be finalized before High-CO2 Symposium)
9:30-10:30	<p>Group discussion (continued): What are the main knowledge on OA impacts on biodiversity? - Moderator: Lina Hansson</p> <ul style="list-style-type: none"> • New tools and techniques (eDNA...) • Modeling
10:30-11:00	Coffee break
11:00-12:00	2 breakout groups: Framework on how to address priorities in relation to the impacts of ocean acidification on marine biodiversity
12:00-13:00	LUNCH
13:00-14:00	Reporting back and group discussion: Framework on how to address priorities in relation to the impacts of ocean acidification on marine biodiversity
14:00-15:00	Group discussion: Case studies for framework, contributors, partners, role of this group
15:00-15:15	Coffee break
15:15-17:00	Next steps, timeline