Workshop Agenda
Linking biodiversity data and data on ocean acidification

20 -21 April 2026

University of Copenhagen, Marine Biology Section
Strandpromenaden 5, Elsinore, 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.

Day 1: Monday, 20 April	
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.

Day 2: Tuesday 21 April	
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