

# COPERNICUS MARINE 8<sup>th</sup> GENERAL ASSEMBLY



Making marine ecosystem models operational















### Why NECCTON?



ICES Journal of Marine Science, 2023, 80, 2087–2098 DDI: 10.1093/icesjms/fsad143 Advance access publication date: 21 September 2023 Ouo Vadimus



# Why we need weather forecast analogues for marine ecosystems

J. S. Link 11, S. Thur<sup>2,3</sup>, G. Matlock<sup>3</sup>, and M. Grasso<sup>4</sup>

National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 166 Water St., Woods Hole, MA 02563, USA 2 National Oceanic and Atmospheric Administration, National Ocean Service, National Centers for Coastal Ocean Science, 1305 East-West Highway, Silver Spring, MD 20910, USA

<sup>3</sup>National Oceanic and Atmospheric Administration, Office of Oceanic and Atmospheric Research, 1315 East-West Highway, Silver Spring, MD 20910, USA

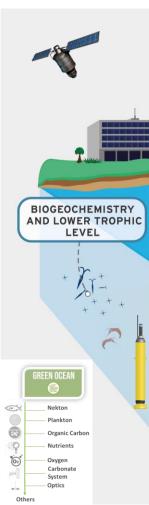
<sup>4</sup>National Oceanic and Atmospheric Administration, Office of Chief Financial Officer, Performance, Risk and Social Science Office, 1401 Constitution Avenue NW, Washington, DC 20230, USA

\* Corresponding author. tel: +1 508-495-2340; e-mail: Jason.Link@noaa.gov.





### **NECCTON** will advance the Copernicus Marine Service





### **NECCTON Key-facts**

- Endorsed by UN Ocean Decade Marine Life 2030
- Horizon Europe Copernicus evolution project
- Coordination: S Ciavatta Mercator Ocean int.
- Duration: 4 years (Jan 2023-Dec 2026)
- Budget: 10M Eur
- Partners: 23











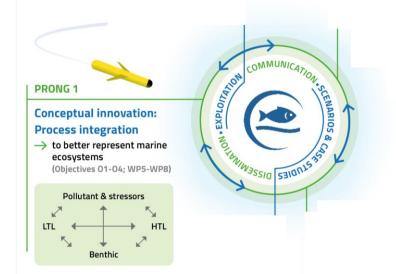








## The 3-prong approach

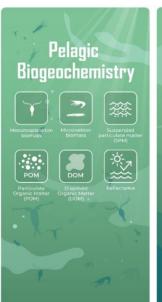


New marine ecosystem models and products



### The 27 NECCTON model products















**OBSERVATIONS** In-situ and satellites

**MODELS** Calib., assim. & ML

**HINDCASTS** Decadal

10+ datasets

**PROJECTIONS** Multi-decadal



### Thirteen case studies co-created with stakeholders

7	

BLUE WO	RLD INSTITUTE
F A O	
<b>fugro</b>	GFCM
ICES	International Council for the Exploration of the Sea
CIEM	Conseil International pour l'Exploration de la Mer























Fisheries management

















































2021 United Nations Decade of Ocean Science for Sustainable Development











Join mailing list

















































