

Ocean Health Products and Services

The table summarises the agreed products and services that will be provided by EuroSea WP6. The products and services listed in the table below have been agreed with the EuroSea co-developers/stakeholders, based on their needs and requirements. *

Product/Service	Beneficiary	Co-developer	Short description of Product or Service	Study area	Related EuroSea task
Numerical models off SW Ireland	MI	MOWI NPWS EPA BIM	Provide spatial maps related to marine heatwaves (surface and subsurface), ocean currents, DO and pH at different time scales (short term forecasts and multiannual information for environmental assessment reporting purposes e.g. 5-year cycle).	NE Atlantic	Task 6.1
Mediterranean Surface Exploration Tool (MSET)	SOCIB-ICTS		Provision of end-user-oriented tool for the exploration and visualization of various Essential Ocean Variables (EOVs) and extreme events from ocean observing (CMEMS satellite products) and forecasting (SOCIB WMOP) systems in the Western Mediterranean.	Mediterranean	Task 6.1
Sub-regional Mediterranean Marine Heat Wave tool	SOCIB-ICTS		User-friendly visualization tool of sub-regional marine heat waves in the Mediterranean Sea at both short- and long-term temporal scales using CMEMS satellite products. This added-value product provides: daily bulletin of MHWs (detection of MHW event in real time) long-term evolution of MHW characteristics (intensity, duration, frequency).	Mediterranean	Task 6.1
GADGET model	ICMAN-CSIC	ICES-WGHANSA	Globally applicable Area-Disaggregated General Ecosystem Toolbox model (GADGET): Provide forecasts and improve advice on stock assessment of the European anchovy by estimating recruitment and exploring relationships between recruitment and environmental variables.	Mediterranean	Task 6.2
MSE model	ICMAN-CSIC	ICES-WGHANSA	Management Strategy Evaluation (MSE) framework: Simulation of scenarios incorporating relevant oceanographic variables under a management measure and use of trends from oceanographic variables affecting population dynamics to see the combined effect.	Mediterranean	Task 6.2
Indicators for HELCOM	TalTech, DMI	HELCOM	Development and provision of two products: Eutrophication status assessments: regular assessment of eutrophication status; Abnormal or extreme events: regular reports on abnormal or extreme events (e.g., salt water inflows). Both CMEMS products and <i>in-situ</i> data from environmental monitoring are incorporated.	Baltic	Task 6.3
Aquaculture data buoy	Xylem	MOWI CTAQUA AVRAMAR APROMAR	Provide time series plots/graphs and short term forecasts related to marine heatwaves, ocean currents, subsurface dissolved oxygen (DO) and pH. Low DO levels negatively impact fish health and reduce fish appetite and growth; and with sudden drops in water temperature, it has been observed that jellyfish blooms occur.	NE Atlantic Mediterranean	Task 6.4

*The agreed products and services are subject to change depending on co-developers'/stakeholders' preferences and evolving needs and requirements throughout the duration of the EuroSea project.

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