

# EuroSea Ocean Health Service Requirements

The table summarises the type of EuroSea services needed by co-developers to support their environmental assessment activities. It also provides an overview of data the co-developers will share with the EuroSea consortium. Information in the table below was generated from meetings held between EuroSea WP6 co-developers and scientists.

Subject	Co-developer	Co-developer requirements	Co-Developer Datasets available to EuroSea					Suggested study area	Suggested Model to Use in EuroSea
			Physical	Chemical	Biological	Others	Resolution		
<b>Environmental Assessment of Natura 2000 sites</b>	National Parks and Wildlife Services NPWS	<u>Identification and forecast of:</u> <ul style="list-style-type: none"> <li>Marine Heat Waves</li> <li>Deoxygenation events</li> </ul> <u>Monitoring and forecast of:</u> <ul style="list-style-type: none"> <li>Water Quality variables</li> </ul>			<ul style="list-style-type: none"> <li>EUNIS habitat maps (e.g. <i>Zostera</i> communities; maerl communities)</li> </ul>	<ul style="list-style-type: none"> <li>Natura 2000 site maps</li> </ul>	Report every 6 years	SW Ireland	SW Ireland model
<b>Assessment of Fish farms, Fish health &amp; Water quality</b>	MOWI Ireland	<u>Identification and forecast of:</u> <ul style="list-style-type: none"> <li>Marine Heat Waves</li> <li>Deoxygenation events</li> </ul> <u>Monitoring and forecast of:</u> <ul style="list-style-type: none"> <li>Water Quality variables</li> </ul>	<ul style="list-style-type: none"> <li>Water temperature</li> <li>Salinity</li> </ul>	<ul style="list-style-type: none"> <li>Dissolved Oxygen</li> <li>Nitrate</li> <li>Nitrite</li> <li>Ammonia</li> <li>Phosphate</li> <li>Dissolved Inorganic Nitrogen</li> </ul>		Total Ammonia Nitrogen	Monthly	SW Ireland	SW Ireland model
<b>Potential transport pathways of pathogens</b>	Ireland's Seafood Development Agency Bord Iascaigh Mhara BIM	<u>Evaluation of ocean currents:</u> <ul style="list-style-type: none"> <li>Model particle tracking</li> </ul> <u>Monitoring and forecast of:</u> <ul style="list-style-type: none"> <li>Water Quality variables</li> </ul>	<ul style="list-style-type: none"> <li>Water current speed and direction</li> </ul>				Ad hoc deployments	SW Ireland	SW Ireland model
<b>Environmental Assessments of Water Quality</b>	Environmental Protection Agency EPA	<u>Identification and forecast of:</u> <ul style="list-style-type: none"> <li>Marine Heat Waves</li> <li>Deoxygenation events</li> </ul> <u>Monitoring and forecast of:</u> <ul style="list-style-type: none"> <li>Water Quality variables</li> </ul>	<ul style="list-style-type: none"> <li>Water temperature</li> <li>Salinity</li> <li>pH</li> </ul>	<ul style="list-style-type: none"> <li>Total oxidised nitrogen</li> <li>Ammonia</li> <li>Phosphate</li> <li>Silica</li> <li>Dissolved Inorganic Nitrogen</li> </ul>	<ul style="list-style-type: none"> <li>Phytoplankton / Chlorophyll</li> </ul>	National WFD monitoring programme. Sites and waterbodies can be viewed <a href="#">here</a> : Parameters include: <ul style="list-style-type: none"> <li>Bottom depth</li> <li>Depth</li> <li>Secchi depth</li> <li>Dissolved Oxygen Saturation</li> <li>Dissolved Oxygen</li> <li>Biochemical oxygen demand</li> <li>Chlorophyll</li> <li>Suspended solids</li> </ul>	Monthly (growth season)	SW Ireland	SW Ireland model