

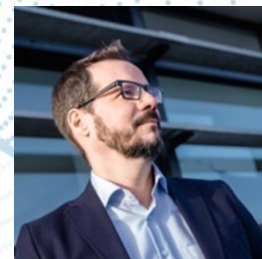
EU Coastal Use Cases Workshop

September 16, 2024

Coastal Ocean Noise Operational Service to support the EU Marine Strategy Framework Directive in the Mediterranean



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Quiet-Oceans, France



- **Project in a nutshell**



Project in a nutshell

- Low frequency underwater noise is regulated by the EU Marine Strategy Framework Directive (MSFD) since 2010
- Descriptor 11 of the MSFD state that continuous low-frequency sound shall not exceed levels that adversely affect populations of marine animals.
- Use high resolution oceanography to support ocean noise mapping and the assessment of Good Environment in coastal waters
- Demonstrate the developed capability through two use cases in the Mediterranean



- **Consortium**



Consortium



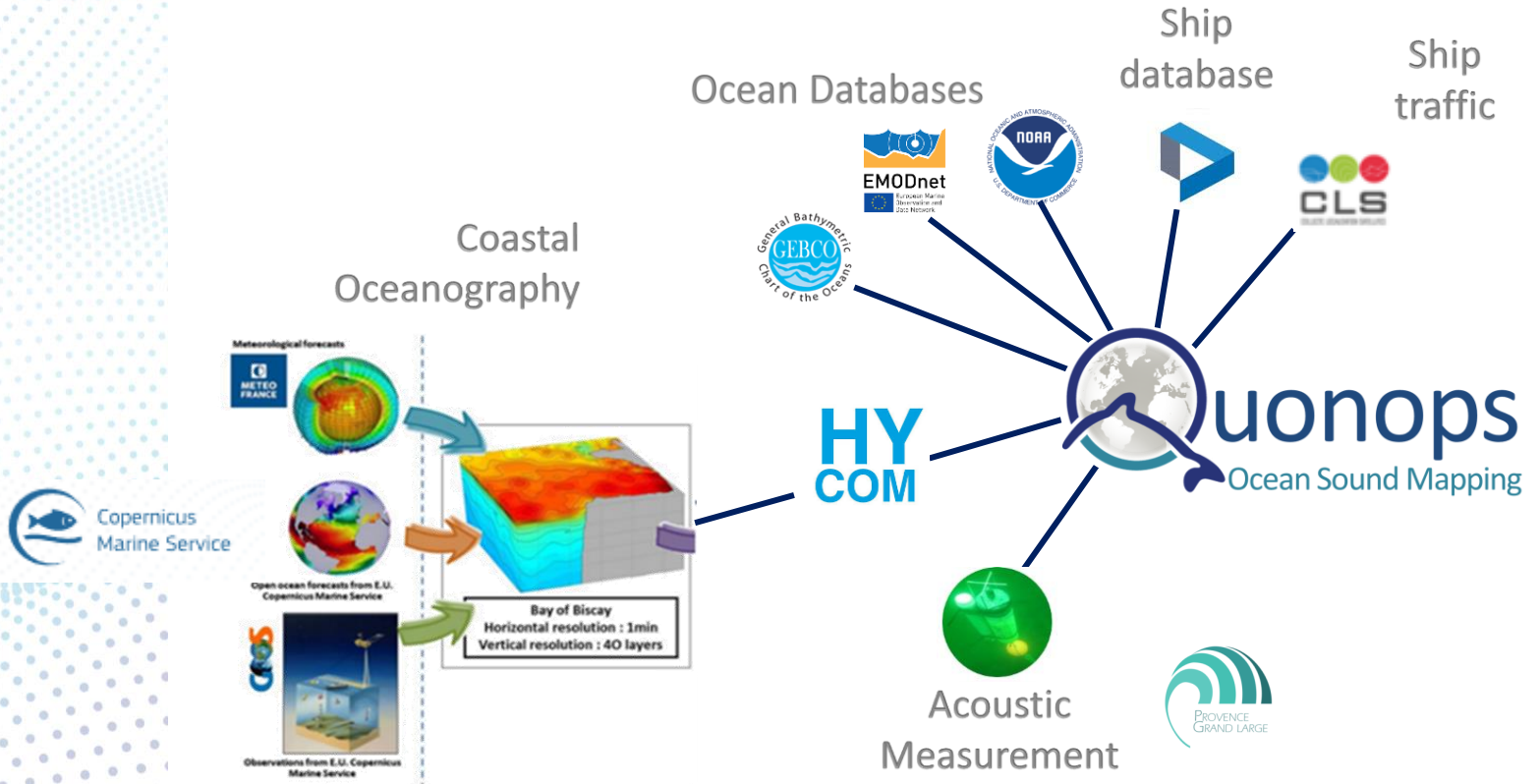
- **Copernicus Marine Products and Coastal model**



Services used

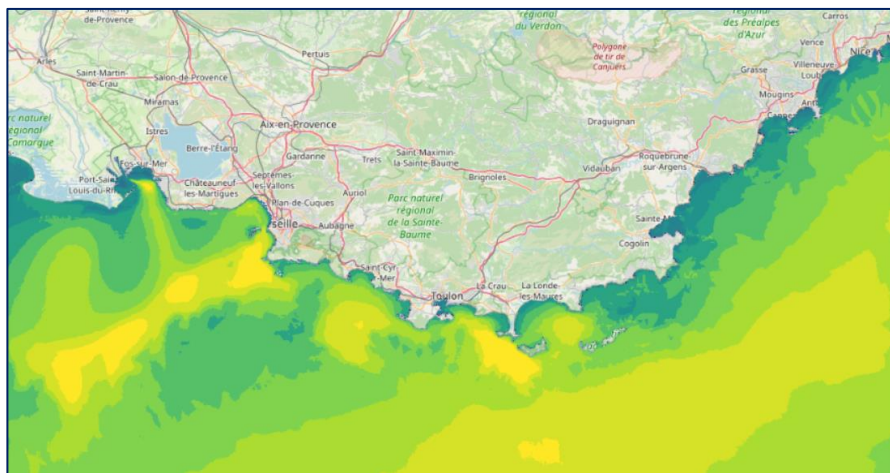
Type of layer	Products used	Layer name
T&S	Mediterranean Sea Physics Analysis and Forecast	MEDSEA_ANALYSISFORECAST_PHY_006_013
Waves	Mediterranean Sea Waves Analysis and Forecast	MEDSEA_ANALYSISFORECAST_WAV_006_017
Sea surface	Global Ocean Hourly Sea Surface Wind	WIND_GLO_PHY_L4_NRT_012_004

Hycom to support Quonops platform



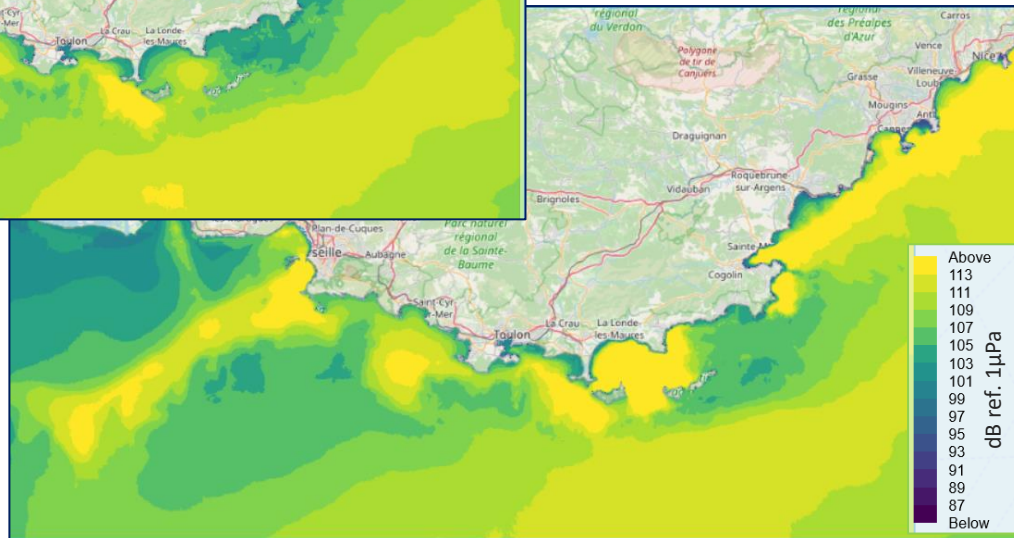


South of France coast use-case

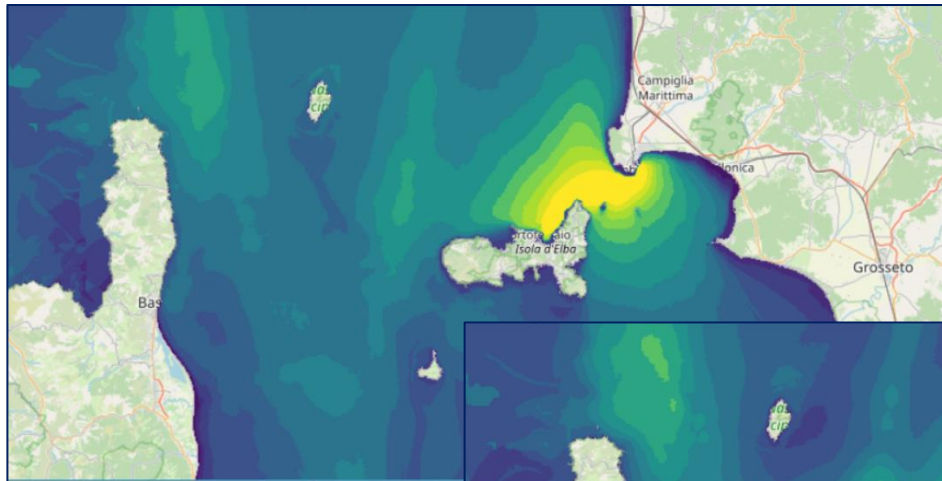


March 2023
125Hz one-third octave

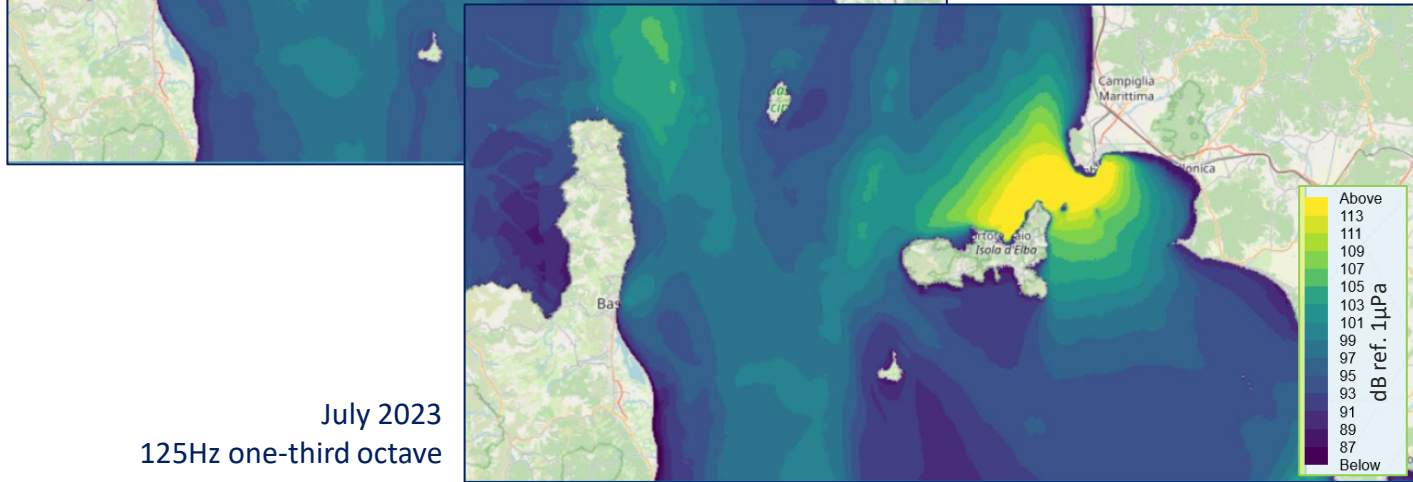
August 2023
125Hz one-third octave



Elba island-Corsica use-case



April 2023
125Hz one-third octave



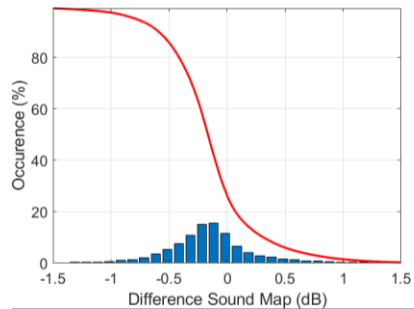
July 2023
125Hz one-third octave

- **Seamless Coastal Marine Service**

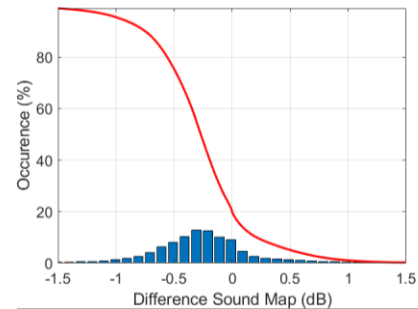


Comparison with measured sound levels

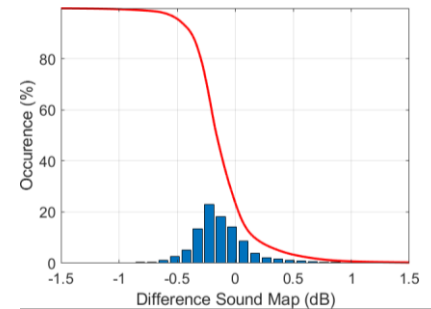
July 2023
63Hz one-third octave



July 2023
125Hz one-third octave



July 2023
1kHz one-third octave



- Contact

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