

## **Towards an Operational Anthropic Ocean Noise Prediction System**

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In order to address the issue of ambient noise monitoring under the Marine Strategy Framework Directive, an operational global anthropic noise prediction system called Quonops has been designed similarly to weather forecasting systems. Quonops combines real-time environmental data and real-time human information and assimilates real-time acoustic measurements to produce the resulting 3D ocean noise fields as a function of time. The system has been thought to cover most basins and activities. The initial version of the system aims to deliver a mapping service based on the current technical and scientific possibilities. The long-term goal is to improve the quality of the prediction by implementing emerging technologies, new methodologies, and improved knowledge.