

SEAPROF



Undersea Acoustic Performance Prediction System



When sound propagates underwater is subjected to numerous and complex phenomena as reflexion, scattering and absorption due to the variable nature of sea. These phenomena modify the sound propagation paths and the transmitted energy.

Realistic sound propagation predictions provide essential tactical information in any underwater mission like ASW, surveillance and detection, mine hunting, diver detection, sonar training or R&D.

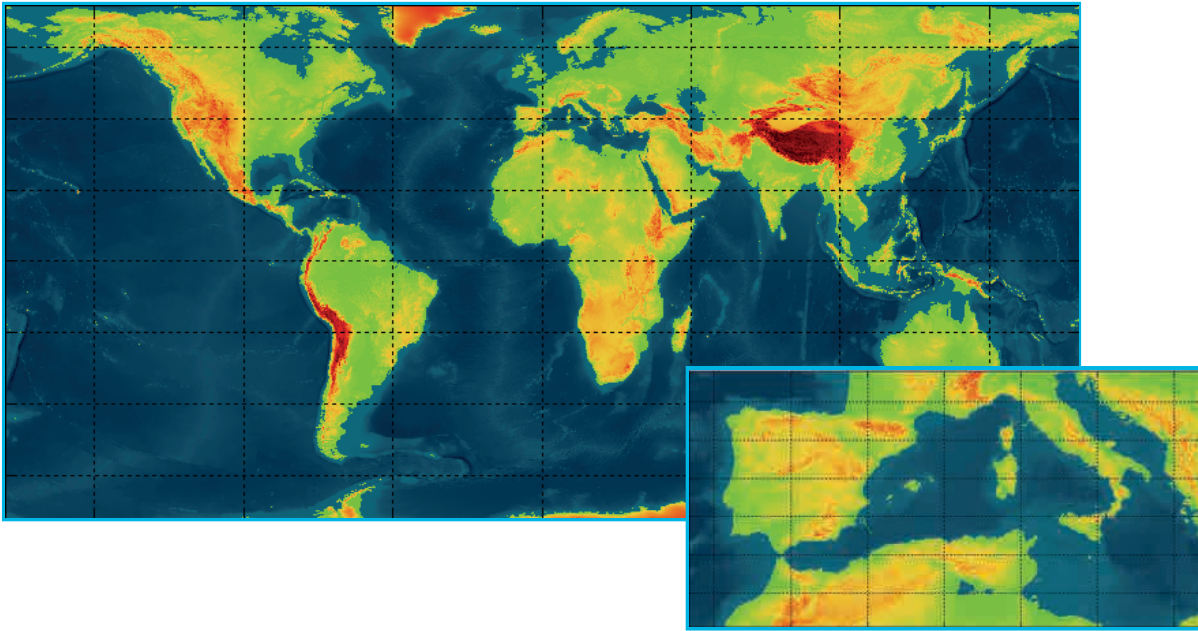


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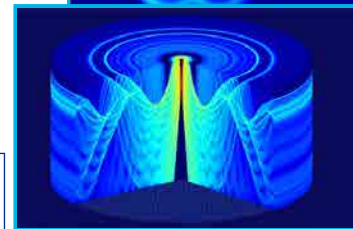
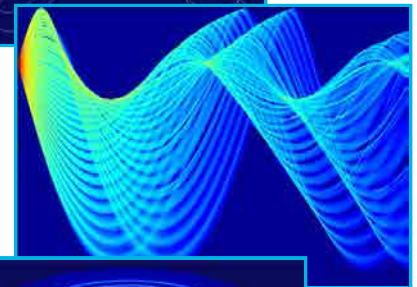
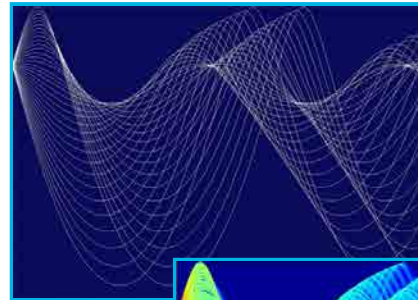
SEAPROF is a complete sonar performance system with international validated propagation models and global databases which allows the evaluation of any sonar in any underwater environment.

SEAPROF has been designed to provide an easy and friendly tool in which every scenario could be faithfully reproduced and displayed.



Main Capabilities

- Validated propagation models for low and high frequencies.
- Reverberation calculations for active sonar.
- Global Bathymetry database.
- Global Sound Velocity Profile (SVP) database.
- SVP manual database.
- Platforms and Sonar manual databases.
- Ambient Noise based on sea state and ship traffic.
- Complete and friendly tools to configure environment and sonar settings.
- 2D displays for configuration and analysis.
- 3D calculations.



Applications

- Sonar coverage.
- Optimization of sonar settings.
- Evaluation of sonar systems.
- Education in underwater acoustics.
- Tactical decision aids.
- Tactical trainers.
- Acoustic communications.
- Positioning systems.

SEAPROF has been validated by NURC