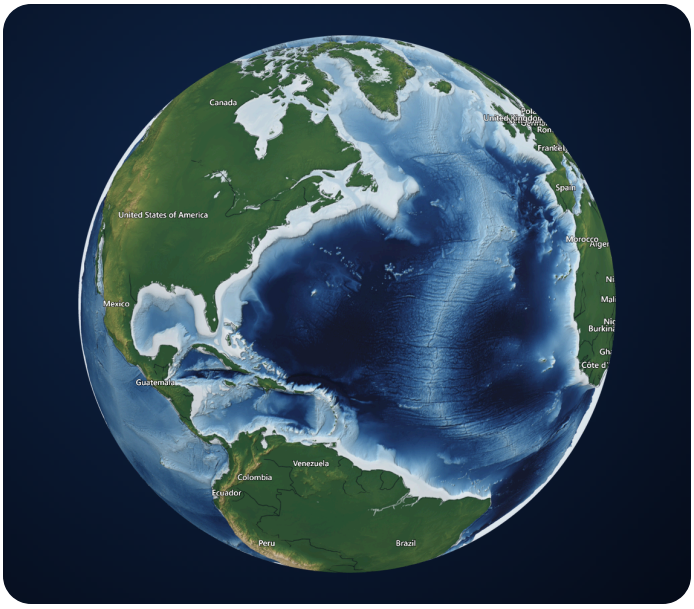
NEREUS

Know the ocean before you sail.

Nereus is TwoBlue's ocean model, the front end of its Data Handling System. It brings the seabed, the water column and the surface into one live model, keeps every dated snapshot, and serves each mission exactly the data it needs.

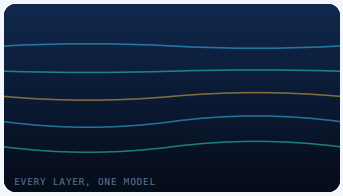


12 B
data points, up to; scalable to 50 B

21
met-ocean parameters

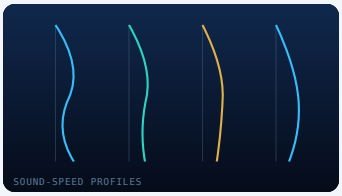
1
globe for every layer

FEATURES



Every layer on one globe

Bathymetry, temperature, salinity, currents, sea state, sediment and noise on one 3D globe.



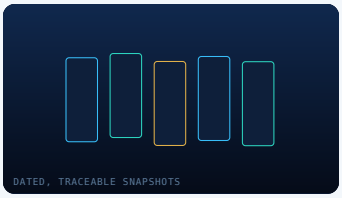
Real sound-speed profiles

Profiles across any area from the latest ocean data, ready for acoustic planning in Poseidon.



Resolution on request

Each request gets the resolution it needs, and the model states the resolution it used.



Dated, traceable snapshots

Every decision can be traced back to the dated data it used.



Data Handling System

Nereus is its front end: secure, redundant storage, archive, retrieval and replay of mission and sensor data.

Live picture

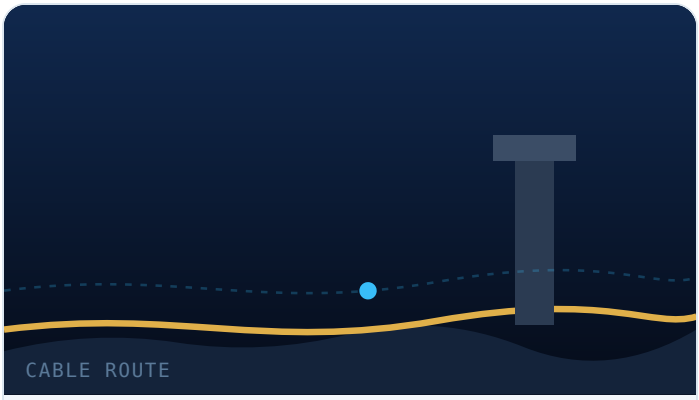
Weather, sea ice, live ships and aircraft, and the maritime and air warnings in force (NAVAREA, NAVTEX, NOTAM) on the same globe. Adverse weather is tracked automatically.

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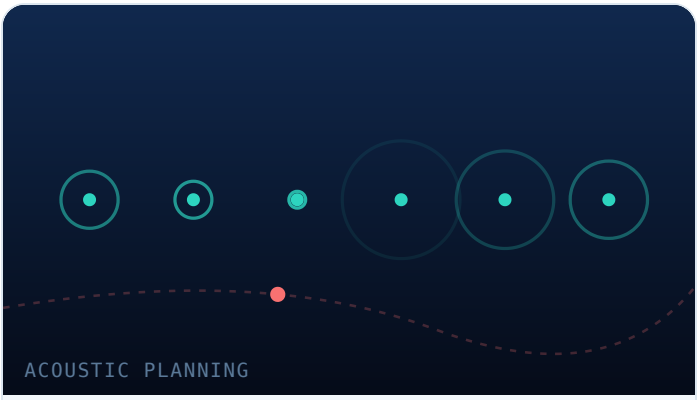
Screens from TwoBlue software running demo scenarios with simulated and emulated data. Scenarios are illustrative.

USE CASES



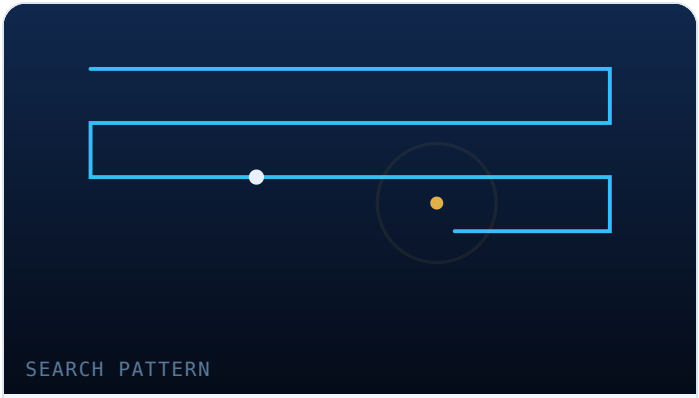
Cable and pipeline route survey

Seabed, currents and noise for a whole corridor, at the resolution the route needs.



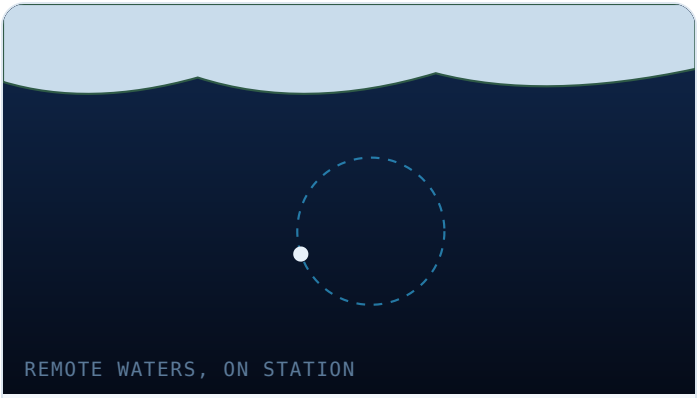
Acoustic planning for sensor networks

Sound-speed profiles and ambient noise show where sensors will hear.



Search and rescue conditions

Currents and sea state for the search area, so Poseidon can plan the pattern.



Remote and Arctic waters

One ocean picture where observations are few, with the resolution it used stated.

SEE THESE ANIMATED AT XALTCRAFT.COM/GO/NEREUS

ILLUSTRATIVE SCENARIO

Clearing a cable route

A survey team must check a 200 nm corridor before a cable lay. Nereus pulls the seabed, currents and noise for that corridor at the resolution the route needs. Poseidon plans the vehicles from the same dated snapshot, and weeks later every planning decision can still be traced back to the data it used.

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ON SCREEN



NEREUS · SEABED AND COAST, CLOSE IN



NINE LAYERS, ONE MODEL

> Feeds Poseidon with the ocean picture for planning, acoustics and routing. Stores what the fleet sends home.

See Nereus running

Ask for a live demo, or a call with the team that builds it. The QR code opens the Nereus page, with these use cases animated.

xaltcraft.com/go/nereus

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