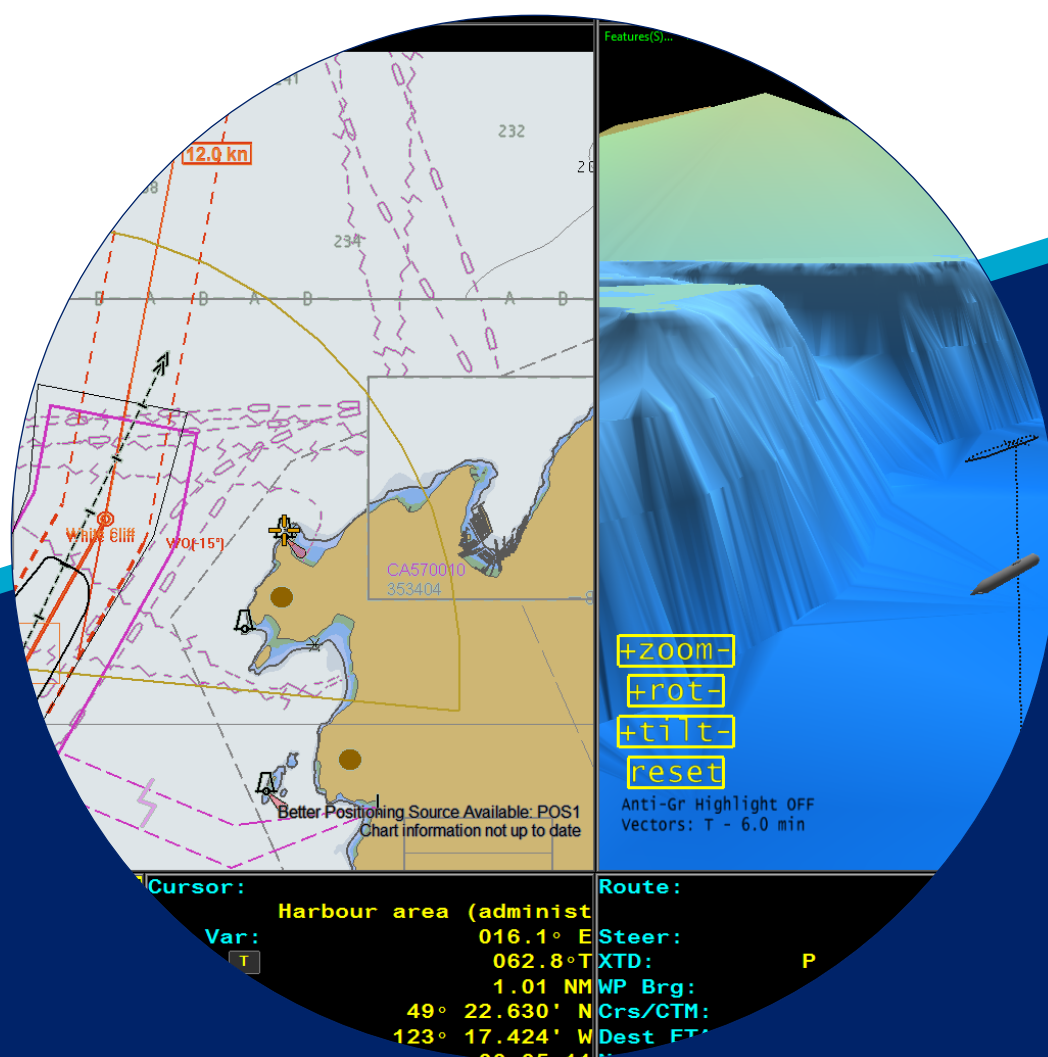


ECPINS

Electronic Chart Precise Integrated Navigation System





ECPINS

ECPINS®, military-grade navigation software designed for Warships and Submarines, optimized for the naval customer to maintain a safe and sustainable operational battle rhythm in a diverse range of challenging tactical scenarios.

Warship Navigation and Situational Awareness

- Military system units, sensors, and features
- NATO WECDIS compliant (Edition 2 = 100%, 3 = 78%)
- IMO ECDIS compliant

GNSS-denied Navigation

- Advanced dead reckoning
- Pool of Errors
- Advanced position fixing tools

Advanced Chart Display Engine

- Advanced dead reckoning
- Pool of Errors
- Advanced position fixing tools

Radar Integration

- Radar image overlay
- Digital radar control
- Fusion of 2 radars into 1 picture

Modules

- Extend the software to support specialized capabilities

Warship

ECPINS Warship 6

GNSS-Denied

TMA

Sub Ops

Signals

Optional modules

Contact Intel

3D Plot

Maneuvering

Aircraft Ops

Radar Control

Radar Fusion

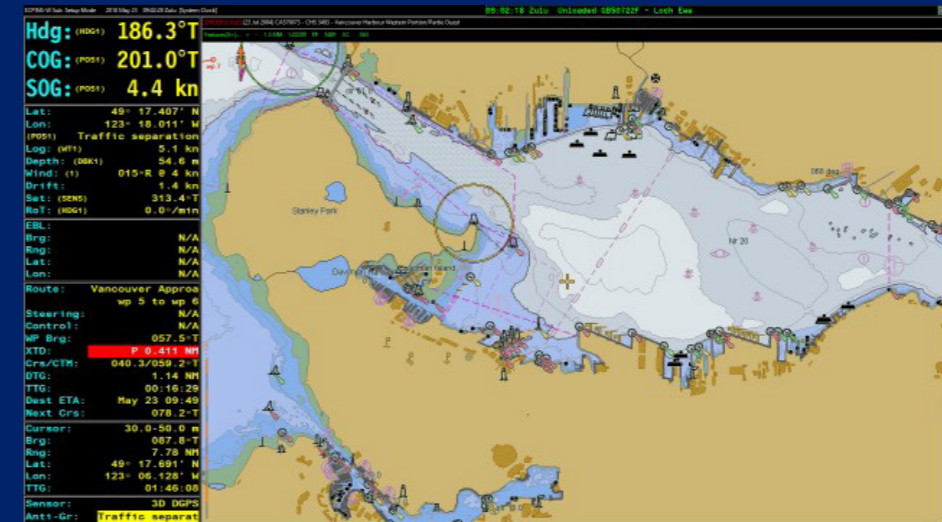
Small Craft Ops

Track Control

Stateboard

Squat

Mine Ops



Military-grade navigation

- Military chart display
- Waterspace management

Situational awareness

- Radar integration
- AIS/ARPA/CMS contacts

Extendable with software modules

- By vessel, class, or fleet
- GNSS-Denied positioning
- Aircraft Ops: steering guidance for bridge crew
- Maneuvering: precision nav awareness
- Radar Control: for digital radars
- Contact Intel: monitoring and identification of target

Submarine

ECPIINS Submarine 6

GNSS-Denied

Contact Intel

TMA

3D Plot

Sub Ops

Maneuvering

Signals

Aircraft Ops

Radar Control

Radar Fusion

Small Craft Ops

Track Control

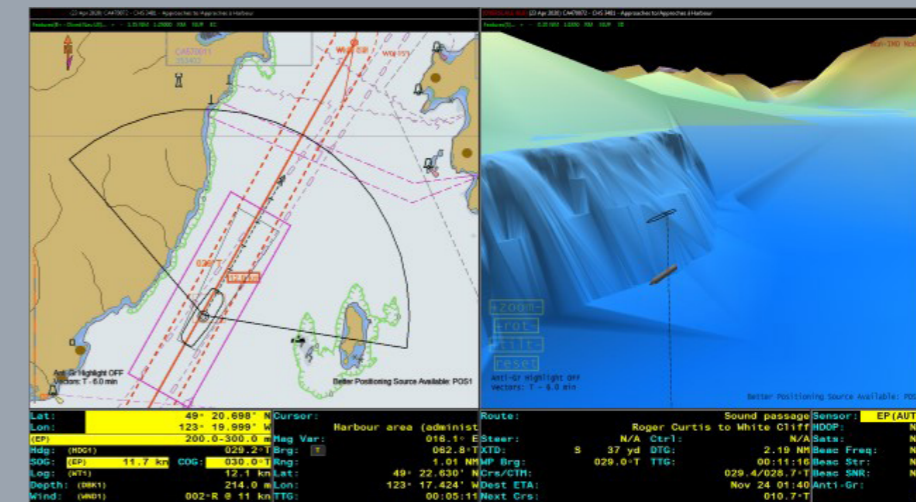
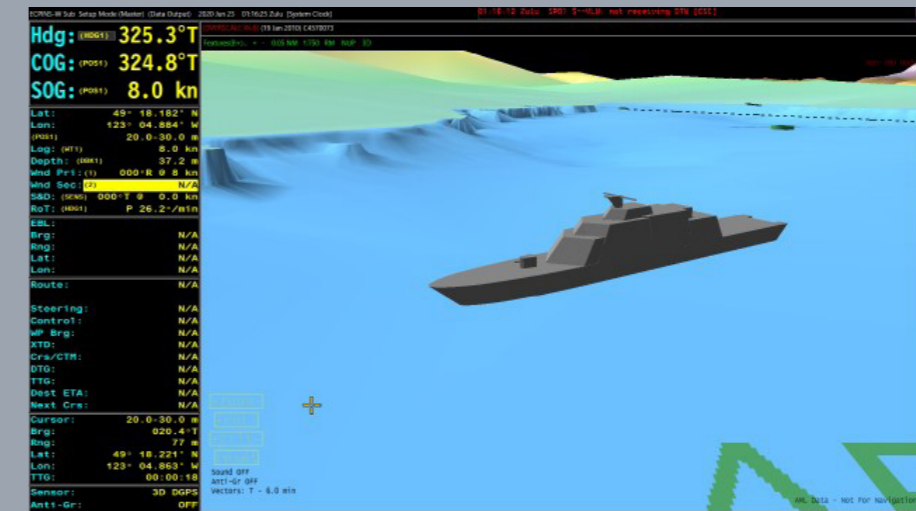
Stateboard

Squat

Mine Ops

And:

- Sub-specific layouts
- Dived safety depth setting
- Depth contour creation
- LOPs by periscope bearing and range
- Secure Mode
- Torpedo safety haven



Military-grade navigation

- Military chart display
- Waterspace management

Situational awareness

- Radar integration
- AIS/ARPA/CMS contacts

Extendable with software modules

- By vessel, class, or fleet
- GNSS-Denied positioning
- Aircraft Ops: steering guidance for bridge crew
- Maneuvering: precision nav awareness
- Radar Control: for digital radars



Customized for your needs

OSI offers a variety of optional software capability modules and features that extend ECPINS's main capabilities in navigation and situational awareness.

Customers have the option of purchasing any selection of these modules for fleet-wide or platform-specific use.

Future



User Interface Refresh

- Modernizing the user experience
- Listening to user base
- Working with expert users
- Enhanced ease of use/learning

NATO WECDIS Edition 3 compliance



- State-of-the-art electronic nav
- 100% compliance (78% already)
- Adds new capabilities such as:
 - Waterspace management preview
 - Sector screens
 - S-100 chart support
- Enhances existing capabilities such as:
 - Positioning tools
 - Submerged route planning
 - Dynamic chart objects

Modules

- ECPINS Warship + modules
- ECPINS Warship is the core product
- Modules add specialized capabilities
- Enables the customer to fit ECPINS to platforms/classes/fleets

24 Navies, more than 600 Ships Fleetwide across Eight Navies Eighteen Classes of Submarines



 Operational on surface vessels
 Operational on subsurface vessels



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