Ice Management Simulator

Virtual Marine's Ice Management Simulator uses embedded software to construct and run simulation scenarios, on OEM marine bridge equipment. As a ship and navigation equipment simulator, it is used for the tactical simulation of ice procedures in multi-year ice, and for calculating ice interactions against a ship's hull and other ice floes that results from prop and bow thruster wash and vessel ice movements.

How does it work?

Virtual Marine's Ice Management Simulator is embedded in OEM consoles, and stimulates OEM software with navigation data and RADAR video signals from real time simulated scenarios. Simulated sensors include: GPS, AIS, MINS, Gyro, Echo Sounder, Speed Log, and Metoc.

Currently being used by the Canadian coast guard to support their polar code and ice management competency training

Applications

1 Specifically designed to quicken the competency development of mariners operating in ice covered waters, like the Arctic Region

2 The Ice Management Simulator supports the coursing requirements (basic and advanced) under the new 2017 **IMO Polar Code**.

VIRTUAL MARINE
PERFORMANCE SIMULATION & TRAINING
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Technical Features

- Support available for either digital or analog radar simulation, both X and S band
- Virtual Marine uses dynamic physics-driven 6DOF math models for the own ship as well as all targets/contacts
- The own ship's virtual rudder and engine can be controlled by analog interface with OEM equipment
- Developed with HLA and DIS
- Designed with an instructor station to coordinate scenarios with a range of environmental settings

About Virtual Marine

Virtual Marine offers powerful custom-designed simulation capabilities to support defence and coast guard markets. Virtual Marine's embedded radar simulator has supported several frigate programs for integration/testing and it is ready for shipboard use. On the training front, Virtual Marine also develops customized simulators using vessel-specific equipment for Lifeboats and Fast Response Crafts (FRC). The range of available simulation scenario software, including radar and ice management features, facilitates the testing of operator proficiency in a realistic manner, while delivering safe and repeatable training to quicken competency development. ISO registered, Virtual Marine simulators are DNV-GL certified and follow IMO and STCW regulations.

For More Information:

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