



Full Mission Ship Bridge Simulator



Bridge A

DNV Class A (NAV)
 240 degree projected visual
 30 degree stern visual
 Wheel steering on separate stand
 Joystick steering on console
 Two engine throttle control
 Azimuthing controls for: Azipods, Z-drive, Kemewa
 jets, independent rudders

Bridge B

DNV Class B (NAV)
 120 degree visual
 Wheel steering on console
 Two engine throttle control
 Voith-Schneider controls

Bridge C

DNV Class B (NAV)
 120 degree visual
 Wheel steering on console
 Two engine throttle control

All Bridges

Latest Kongsberg Polaris Software
 VHF radios
 Internal ship phone
 RADAR/ARPA
 ECDIS
 Conning display
 Anchor control
 Winch control
 Hawser tension/length display
 Doppler, Gyro, compass, DGPS, AIS, sonder
 Autopilot
 Thruster controls
 Pilot plugs
 Alarm/fault display
 Lights, sound signals
 Binocular view
 Chart table with light

Instructor Controls

Interactive or separate exercises
 Target vessel routing
 Wind, waves, current, weather, tide
 Bergs, sludge, hummocked, first year, multi-year ice
 Faults, alarms, offsets
 Hawsers for tugging/towing/mooring
 Operator controlled tugs
 Audio and video monitoring
 Playback for debrief

March 12, 2014



Navigation and Communication Laboratory (NavLab) Simulator



NavLab Capabilities

6 Bridges

DNV Class C (NAV)
Navigation
RADAR/ARPA
ECDIS

DNV Class A (COM)
GMDSS

All Bridges

Latest Kongsberg Polaris Software
VHF/DSC radios
MF/HF/DSC radios
NBDP/Sitor
Navtex
Inmarsat B voice
Inmarsat B text
Inmarsat C
RADAR/ARPA
ECDIS
Gyro
Compass
DGPS
AIS
Sounder
Autopilot

Instructor Controls

Interactive or separate exercises
Target vessel routing
Wind, waves, current, weather, tide
Bergs, sludge, hummocked, first year, multi-year ice
Faults, alarms, offsets
Hawsers for tugging/towing/mooring
Operator controlled tugs
Playback for debrief

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**Full Mission Ship Bridge and NavLab Simulators
Ownship Models**

Liquid and Bulk Cargo

136kM3 Spherical LNG Carrier Ballasted & Loaded
 138kM3 LNG Carrier Ballasted & Loaded
 220k DWT VLCC Ballasted
 127k DWT VLCC Ballasted & Loaded
 115k DWT VLCC Ballasted & Loaded
 53k DWT Tankship Loaded
 17k DWT Tankship Loaded
 1712 TEU D7 Container Ship
 1162 TEU Container Ship
 49k DWT Bulk Carrier Loaded
 Handymax Bulk Carrier Loaded
 180' Coaster



Passenger

Fantasy Class Cruise Ship
 Fantasy Class Azipod Cruise Ship
 Millennium Class Azipod Cruise Ship
 Gem Class Cruise Ship
 AMHS Tustumena
 AMHS Chenega High Speed Cat
 115' Passenger High Speed Cat

Tug and Barge

10k HP ASD Response Tug
 6k HP ASD Tug
 4k HP ASD Tug
 4k HP Voith-Schneider fin-first
 4k HP Conventional Tug
 3k HP Conventional Tug
 River Pusher Tug
 Tug and Barge Pushing Loaded
 381' Barge Ballasted & Loaded

Offshore Supply

Tor Viking Icebreaker Supply
 364' Supply Vessel
 283' ASD Supply Vessel

Other

Sikuliaq Azipod Ice Breaker
 USCG Island Class Patrol Boat
 300' Mega Yacht
 225' Trawler/Processor
 317' Fish Processor

Target Models

Over 150 target models available
 Ships, tugs, military, aircraft, SAR/survival equipment, ice bergs and ridges, whale, flotsam, oil rigs, etc.

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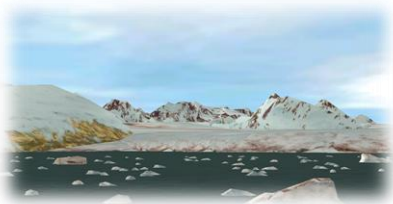




**Full Mission Ship Bridge and NavLab Simulators
Area Databases**

<u>Southwest Alaska</u>	<u>Southeast Alaska</u>	<u>Outside Alaska</u>
Bering Strait	Skagway	Cherry Point, WA
Port Clarence	Lynn Canal	Ferndale, WA
Nome	Glacier Bay	Bellingham, WA
Dutch Harbor	Icy Straights	Anacortes, WA
*Akutan	Sentinel Island	Rosario Straits, WA
Unimak Pass	Juneau	Port Angeles, WA
Chignik	Gastineau Channel	Puget Sound, WA
Kodiak	Tracey Arm	Everett, WA
Womens Bay	Endicott Arm	Seattle, WA
Whale Pass	Stephens Passage	Tacoma, WA
Port Lions	Hawk Inlet	San Francisco, CA
Ouzinkie Narrows	Peril Straights	Richmond, CA
Cook Inlet	Sitka	Oakland, CA
Point MacKenzie	Petersburg	Los Angeles, CA
Anchorage	Wrangle Narrows	Long Beach, CA
Nikiski	Snow Passage	New York Harbor, NY
Drift River	*Decision Pass	Port Elisabeth, NJ
Seward	Klawock	Norfolk, VA
Prince William Sound	Craig	Chesapeake Bay Entrance, VA
Whittier	Ketchikan	Singapore Island
Valdez	Tongass Narrows	Straits of Singapore
Cordova	Nichols Passage	

Modeling Capability



Custom build Area Database based on NOAA chart
 Modify Area Database for research possibilities
 Add/edit docks, buildings, land features, buoys, depth, current, wind
 Modify Ownship Model or Target vessel visual

* Available Fall 2014

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