

UAS 600 Stedman St. Ketchikan, Alaska 99901

Lab rental rate of \$65 per hour includes a simulator operator plus a \$30 set up fee.

Instructors are available if desired.

Call Diana at 907-228-4568 to arrange rental or maritime@uas.alaska.edu

Five ship bridges:

Bridge 1 has three large displays plus helm and throttle control hardware Bridge 2 has one medium display plus helm and throttle control hardware Bridges 3, 4 &5 have mouse driven split screen visuals and ship control All bridges have radar and pilot plugs

Bridges can be assigned to separate training areas or to interact within the same training area

Simulated Vessels	Displacement	Length	Speed
Bulk Carrier	23,565 T	600 ft	15 kts
Coast Guard Cutter	100 T	108 ft	33 kts
Container Ship	83,105 T	910 ft	25 kts
Fast Ferry (Water jet)	3,545 T	405 ft	41 kts
Fishery Training Ship	3,300 T	305 ft	18 kts
FVS	812 T	175 ft	23 kts
Rescue Boat	14 T	38 ft	16 kts
Multirole Support Ship	2,250 T	240 ft	13 kts
Passenger Cruise Ship	24,841 T	757 ft	24 kts
Passenger Cruise Ship2	31,085 T	787 ft	19 kts
Patrol Boat (Water jet)	35 T	65 ft	34 kts
Rigid Inflatable Boat	2 T	25 ft	34 kts
Ro-Ro Passenger Ferry	7,100 T	410 ft	24 kts
VLCC	321,260 T	1089 ft	15 kts

Plus over 200 target vessels and objects in the Transas library.

Training Area

Juneau, Alaska
Seattle, Washington
Ketchikan, Alaska
San Francisco, California
Snow Pass, Alaska
Norfolk and Hampton Roads, Virginia
Wrangell Narrows, Alaska
Long and Block Island Sound, New York
Prince William Sound, Alaska
Open Sea

Simulator Capabilities

Environmental conditions

- Any time of day or night celestial bodies accurately displayed for date and time selected
- Varied states of visibility fog, rain or snow
- Varied states of wind, sea and current control of strength and direction

Simulator controller can initiate the movement of over 200 different types of vessels as well as aircraft, floating objects, person in the water, wrecks and land objects

Auto or manual steering

ARPA Radar

- Three models available (Bridgemaster, Furuno & Nucleus)
- ARPA on or off
- Interference on or off
- No signal from a target
- SART (search and rescue transponder)

Simulator controller can initiate error, defect, failure or warning alarms for:

- Engine
- Steering
- GPS
- Depth sounder
- Gyro

Electronic Chart Display Information System (ECDIS)

- Installed ECDIS training software available or bring a laptop with your own electronic chart software (must be able to receive UAIS sentence data)
- Pilot plugs available on all 5 bridges. Two, Laptop-to-pilot plug cables available if needed

Anchoring

- Set number of shots
- Drop or pay out

Mooring and Towing

- Choice of type and breaking strength of line
- Send lines to the dock or object being towed as needed
- Control of winch

Light and sound signals

- Control of spot light and navigation lights
- Initiate sound signals and hear signals from other vessels

Ship movement recording and playback for debriefing

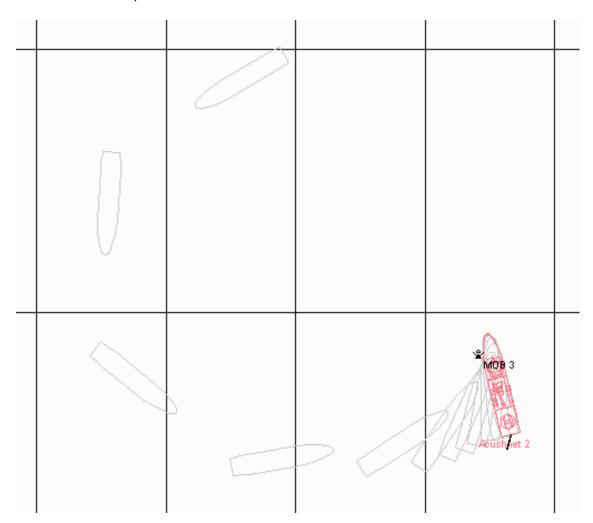
Training option ideas

Collision avoidance - Duplicate real world circumstances for others to learn from			
Practice navigating and docking under different conditions of set and drift			
Use limited resources to safely navigate during low visibility or equipment failure			
Take a one, two or three position visual or radar fix			
Practice docking, towing or ship assist under different environmental conditions			
Practice helm Commands			
Navigation aids and vessel light identification at night			
Figure ETA (simulator controller can fast forward scenario to check accuracy of ETA)			
Practice quick response to a man over board			
			

Video playback showing tracks for debriefing

- Vessel 's tracks, throttle and helm commands shown during playback
- Playback speed, fast forward & pause control

MOB exercise example



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