GMDSS Maritime Simulation Tool (G-MaST)

BCG
Buffalo Computer Graphics

Features

> Control of up to 32 students

> Students may be in up to 8 separate problems or all in same problem.

> Up to 20 movable targets for role playing the location of the instructor's radio

> A single graphics window displays an overview of simulation within all four Sea Areas

> Zoom, pan & centering tools

> Save, edit, replay, & review capability for scenarios

Control of Buffalo Computer Graphics' (BCG) GMDSS simulators is through our instructor software called the GMDSS Maritime Simulation Tool (G-MaST). The G-MaST application provides a simple, modern and powerful user interface for exercise creation, dynamic messaging and event logging.

G-MaST utilizes BCG's 20+ years of experience in GMDSS simulation to provide the operator with an easy to use yet extremely thorough interface for controlling a training scenario. Audio and digital message links allow the instructor to monitor communications and role play as a vessel within the scenario, a coast radio/earth station, or rescue coordination center. Exercise locations and GMDSS stations are selectable from a worldwide GMDSS database. Automated maritime safety information broadcasts can be preprogrammed or instructor initiated.
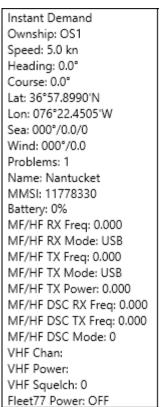
Each student station operates as its own ship during the exercise and is completely independent from other vessels. This capability allows for team training.

The software can be used with Windows 7, 8, or 10. All stations operate on a LAN making expansion simple and allows for system growth as your training requirements increase.
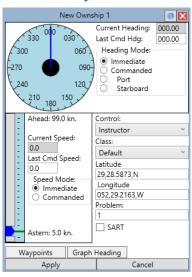
Available Options:

- Slave operation for external control of GMDSS system
- Learning Management System (LMS)
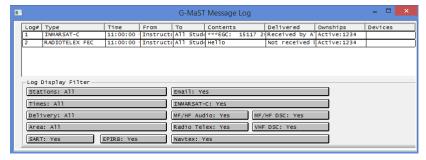- Link with BCG radar simulator for coordinated SART activation

G-MaST Window Features:

* Ownship speed, heading, location
* Target speed, heading, location, and other parameters for up to 20 target ships that may be associated with the instructor's radio dynamically.
* Ship identification assignment for each student ownship (call sign, MMSI, Telex, Inmarsat, Fleet77 Mobile, Email).
* Audio and text messages that may be either sent immediately or scheduled at specified scenario times.
* Instant Demand Panel that pops up to show critical student information.
* Display layers in the global map for satellites, NAVAREA boundaries and various types of land-based stations (RCC, Navtex, CES, DSC, Selcall).
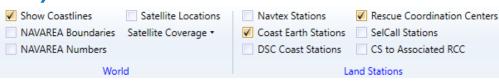* Unlimited number of scenarios

Demand Pop-up

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Instant Demand
Ownship: OS1
Speed: 5.0 kn
Heading: 0.0°
Course: 0.0°
Lat: 36°57.8990'N
Lon: 076°22.4505'W
Sea: 000°/0.0/0
Wind: 000°/0.0
Problems: 1
Name: Nantucket
MMSI: 11778330
Battery: 0%
MF/HF RX Freq: 0.000
MF/HF RX Mode: USB
MF/HF TX Freq: 0.000
MF/HF TX Mode: USB
MF/HF TX Power: 0.000
MF/HF DSC RX Freq: 0.000
MF/HF DSC TX Freq: 0.000
MF/HF DSC Mode: 0
VHF Chan:
VHF Power:
VHF Squelch: 0
Fleet77 Power: OFF
```

Ownship Window

Event Log Window

Home Ribbon

Ship Class	Ownship	Target	Control	Fast Time	View
Table · New	New by ▾ · Move · Edit All · New	New by ▾ · Move · Edit All · New	Play · Stop · Base Time 00:00:00 · Acceleration 1.0	Time 00:00 · Go · @Time · Play After	Zoom In · Zoom Out · Pan · Zoom Box

Tools Ribbon

Send Immediate
- ▸ INMARSAT-C   ▸ Navtex
- ▸ MF/HF DSC   ▸ VHF DSC
- ▸ Radio Telex   ▸ Email

Settings
- ▸ Schedule
- ▸ Power Failure
- ▸ Reset Defaults ▾

Instructor Radio
- ▸ Location
- ▸ Override
- ▸ IOS Comms

Units
- Lat/Lon Format ▾

Scheduled Message Menu

- New INMARSAT-C Message
- New MF/HF Audio Message
- New MF/HF DSC Message
- New Radio Telex Message
- New Navtex Message
- New VHF DSC Message
- New Power Failure
- New Email Message

Layers Ribbon

World
- ☑ Show Coastlines
- ☐ NAVAREA Boundaries
- ☐ NAVAREA Numbers
- ☐ Satellite Locations
- Satellite Coverage ▾

Land Stations
- ☐ Navtex Stations
- ☑ Coast Earth Stations
- ☐ DSC Coast Stations
- ☑ Rescue Coordination Centers
- ☐ SelCall Stations
- ☐ CS to Associated RCC

Contact BCG for information and pricing on our full line of Maritime Simulation products.

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