



Leveraging Automatic Identification System (AIS) Technology

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Abstract

The U.S. Coast Guard Navigation Center (NAVCEN) is leveraging AIS technology to improve *maritime situational awareness* for the U.S. Coast Guard and authorized port-partners and to enhance the *waterway user's experience*. The U.S. Coast Guard's two programmatic priorities include continuing deployment of electronic Aids-to-Navigation (eAToN) and implementation of NOAA's Physical Oceanographic Real-Time System (PORTS). Future efforts include working with industry and the waterway user community to find better ways to utilize AIS data and incorporate advancements in AIS technology.

Improving Maritime Situational Awareness

- Implement methods to inform users of AIS broadcast errors (e.g., vessel name, length, type, etc.)
- Update U.S. Coast Guard AIS policy, processes and procedures
- Notify users when any authorized external data feed becomes unavailable
- Improve detection and mitigation of AIS interference events

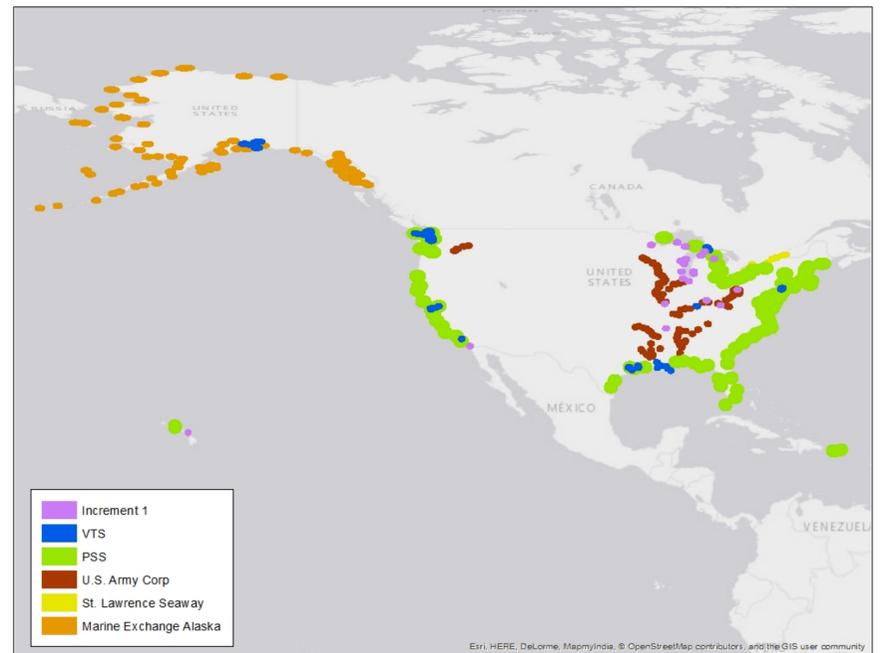
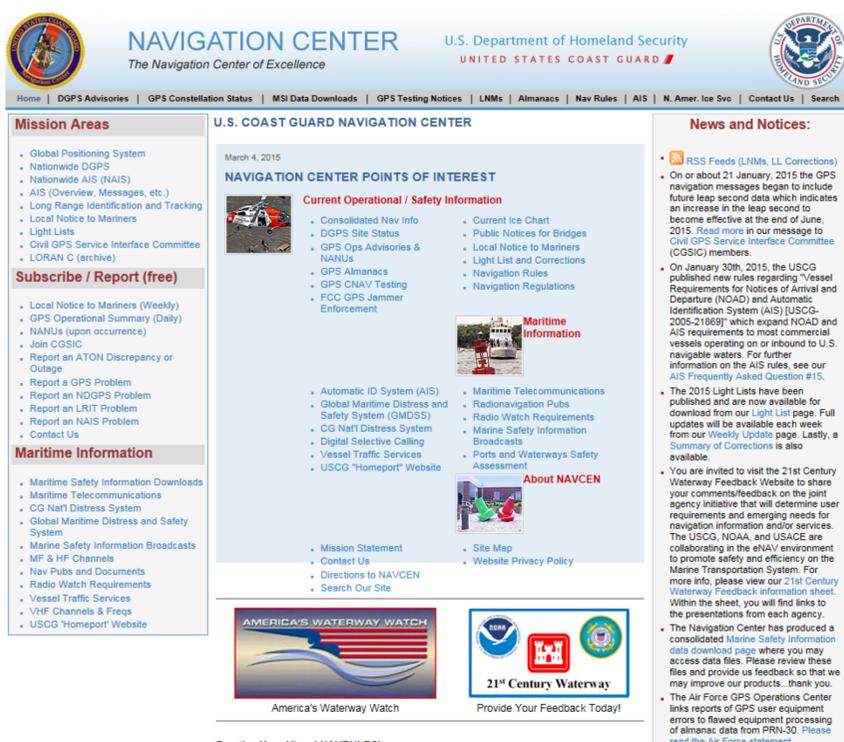


Figure 1: Coast Guard monitored terrestrial sites and authorized external data feeds



Enhancing the Waterway User's Experience

- Improve waterway user notification of eAToN outages.
- Implement methods to improve U.S. Coast Guard Nationwide Automatic Identification System (NAIS) alert capability
- Update U.S. Coast Guard (NAIS) content on the www.navcen.uscg.gov website

Figure 2: NAVCEN website