

**Maritime Information Services of North America
and
Marine Exchange of Puget Sound
at**



John Veentjer

Executive Director, Puget Sound Marine Exchange

President, Maritime Information Services of North America

09-15-10



Alaska



Baltimore



Houston



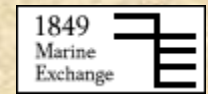
Delaware River & Bay



New York



Puget Sound



San Francisco

Non-profit organizations established to serve their local maritime community independently and beyond their local community as a coalition providing information, communications and related services to ensure safe, secure, efficient and environmentally responsible maritime operations.



Marine Exchange of San Francisco Bay Region

Marine Exchanges Date Back to 1800's

- Established to broker information on vessel arrivals
- First Marine Exchange's used telescopes to spot vessels and semaphore to relay information
- Today Exchanges use radars, radios, AIS, e-mail, the internet, and satellite transponders to collect and broker information on vessels.





MARINE EXCHANGE OF PUGET SOUND

Services we provide:

- **Monitoring and tracking of deep draft vessels.**
- **Information on shipping activities in the Puget Sound and Grays Harbor.**
- **Answering Services.**
- **Regional FA for Round 9 and 10 of PSGP**
- **Administrative services to various maritime organizations, e.g., Harbor Safety Committee, Washington State Maritime Cooperative, Area Maritime Security Committee, etc.**



MARINE EXCHANGE OF PUGET SOUND

Services (continued):

- **Manage the West Seattle Buoys**
- **Statistical Reports**
- **Serve on the Olympic Coast National Marine Sanctuary Advisory Committee**
- **Serve on the Area Maritime Security Committee (AMSC)**
- **Industry representative on Northwest Association of Networked Ocean Observing Systems (NANOOS)**
- **Member Maritime Information Services of North America and National Association of Maritime Organizations**

Monitor Vessel Movements

- **24 hour/7 day watch**
- **Monitor status of vessels from projected arrival to arrival to departure**
- **Collect information from various sources, e.g., operators schedules, agents, pilots, CG VTS, etc.**
- **Inform member/customers with need to know**
- **Extensive database of vessel activity**



Maritime Information Services of North America (MISNA)





Container



Cruise Ships



Ports and Terminals



Tugs and Barges



Trampers & Bulkers



Tankers



Small Passenger Vessels



Fishing



Ferries



Coast Guard and other agencies

Governmental Customers



Customs and
Border Protection



NOAA

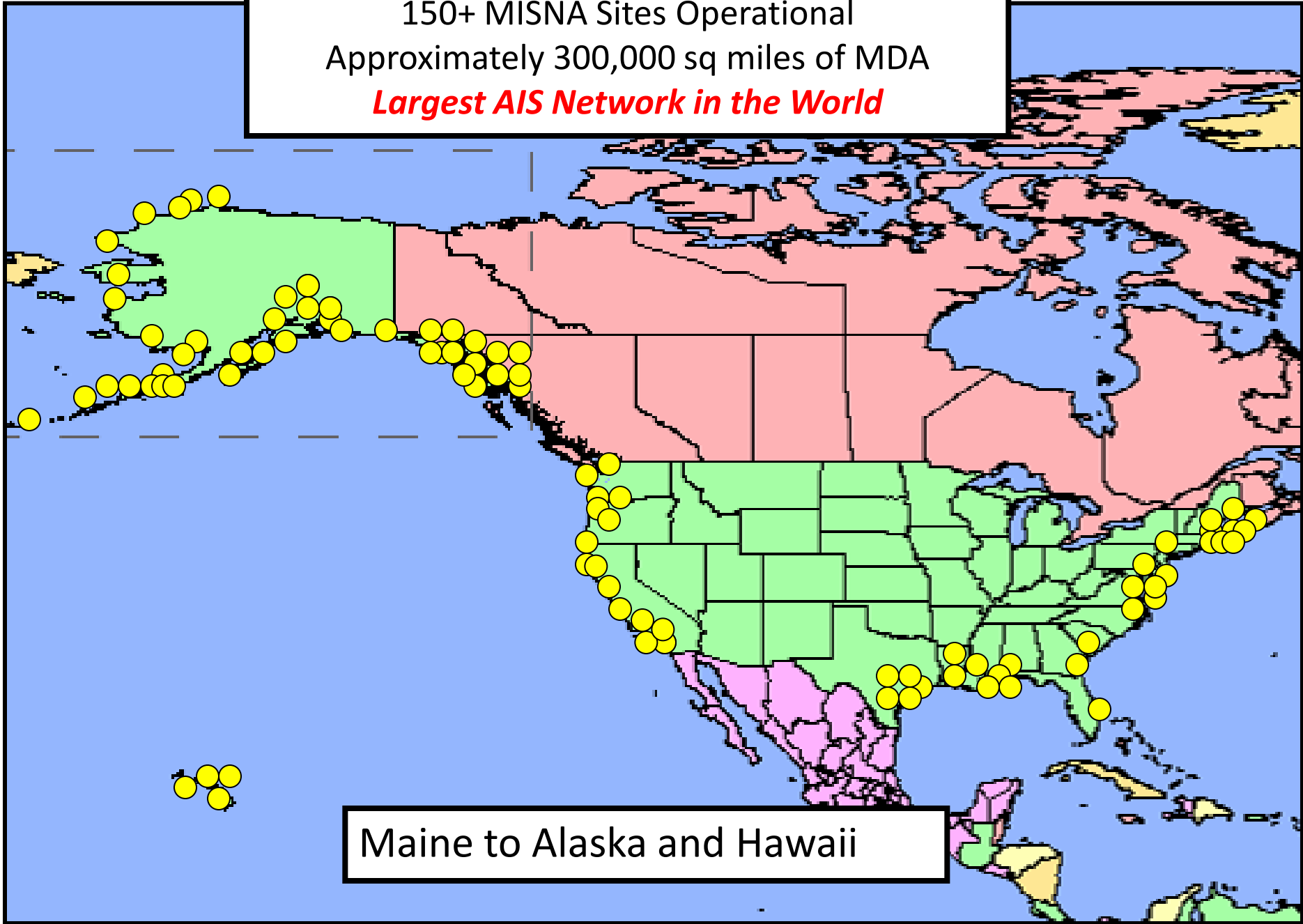
NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
UNITED STATES DEPARTMENT OF COMMERCE



Ports and States



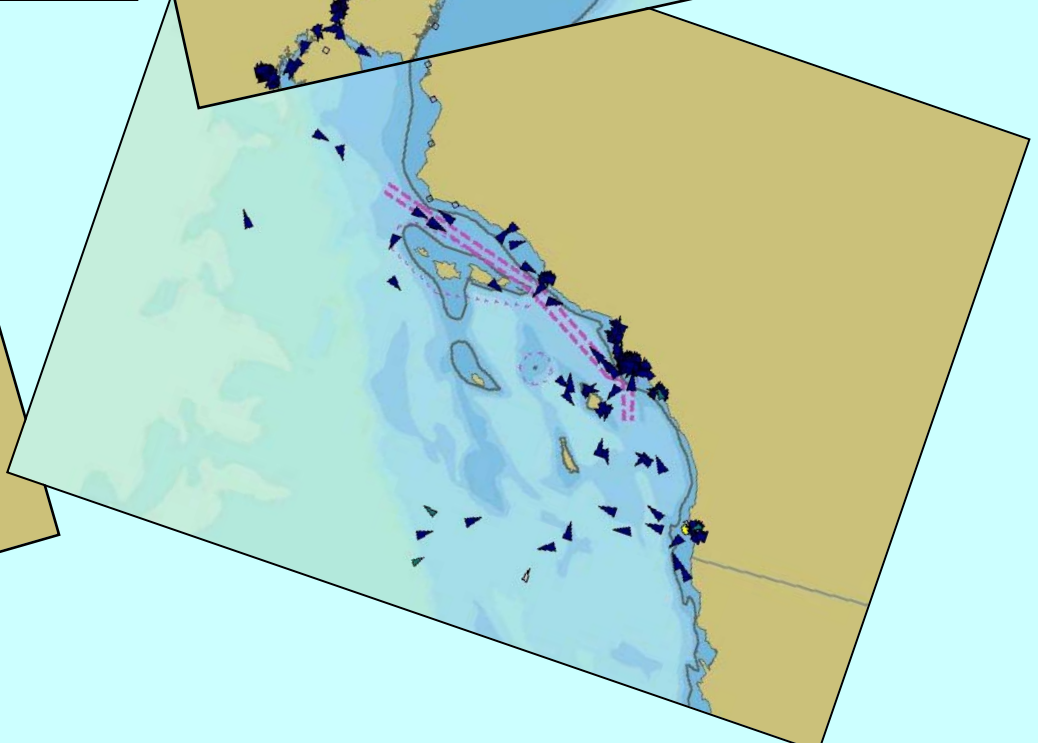
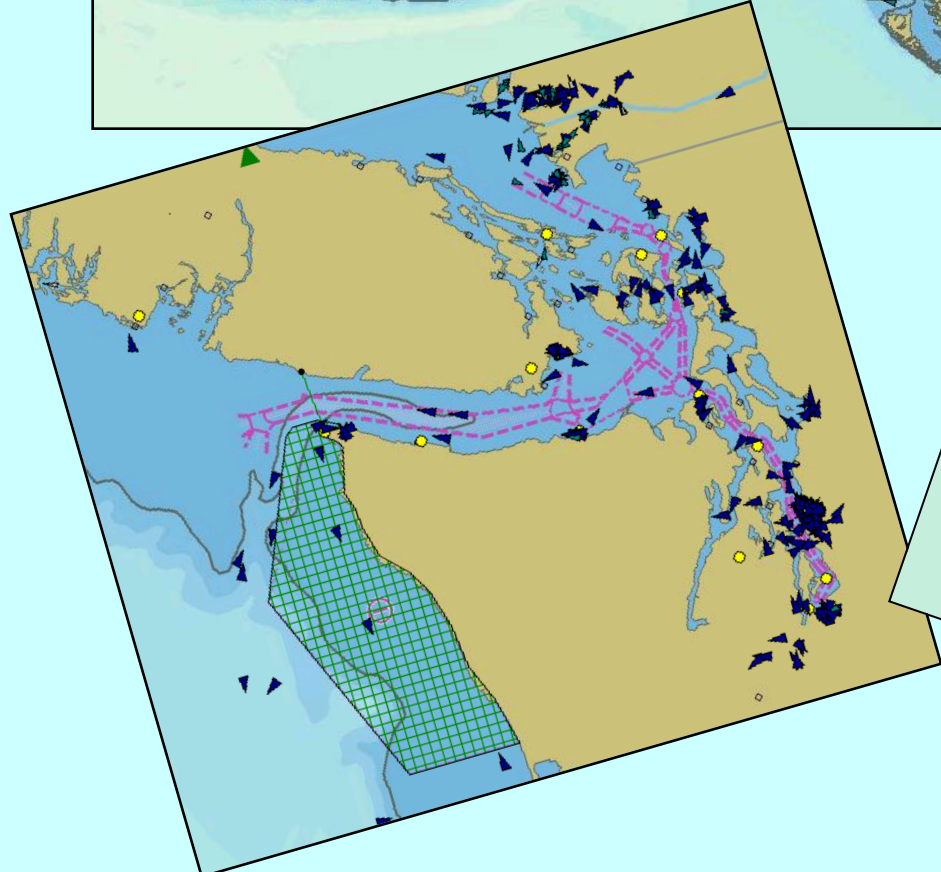
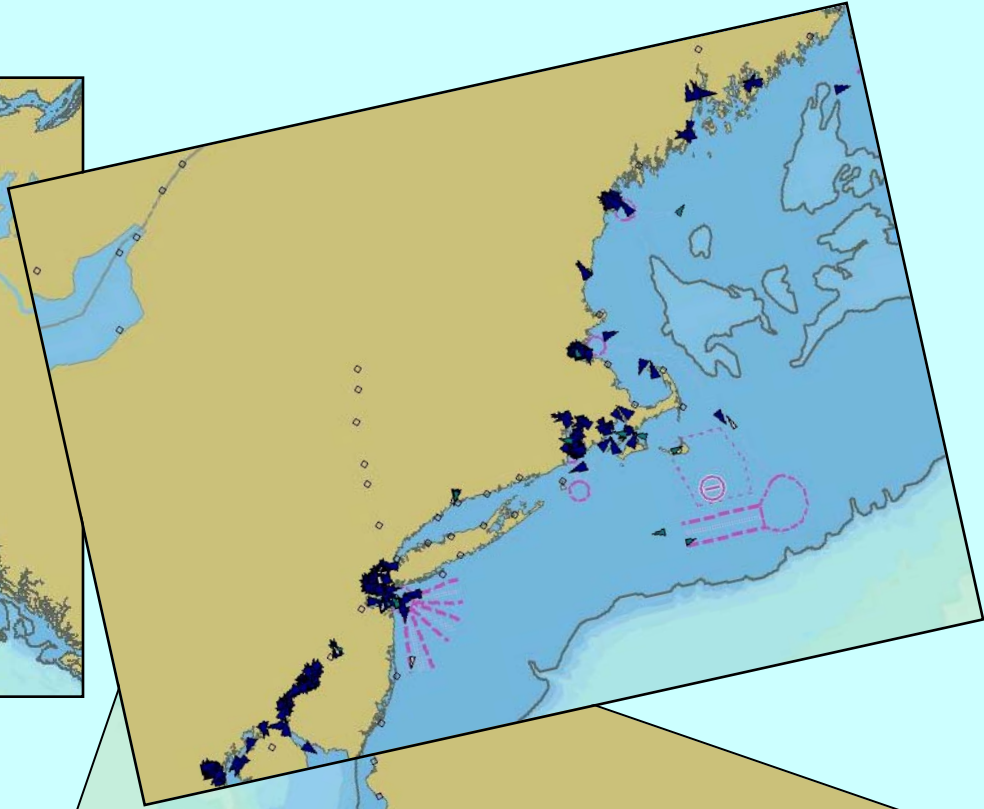
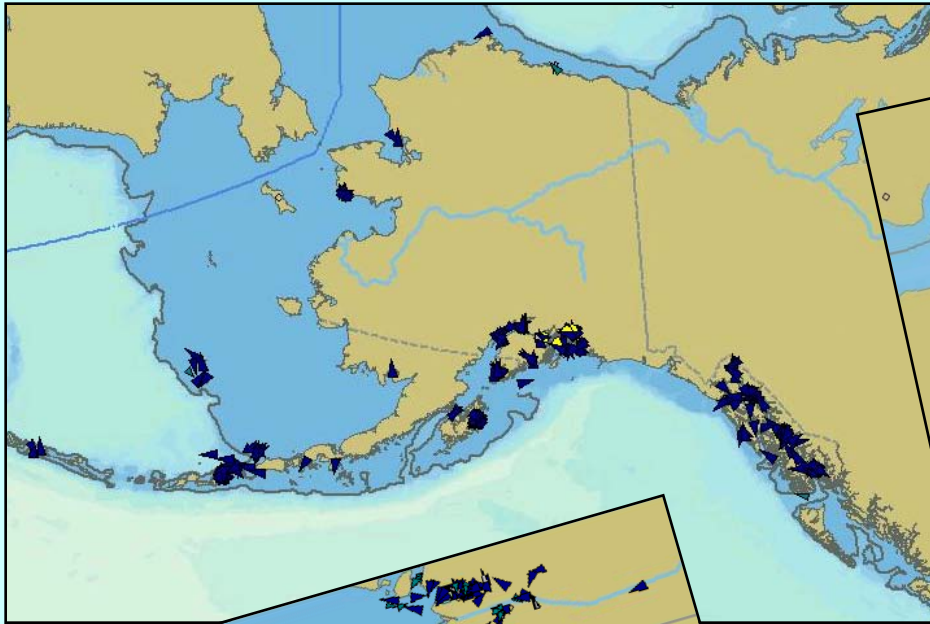
150+ MISNA Sites Operational
Approximately 300,000 sq miles of MDA
Largest AIS Network in the World



Maine to Alaska and Hawaii

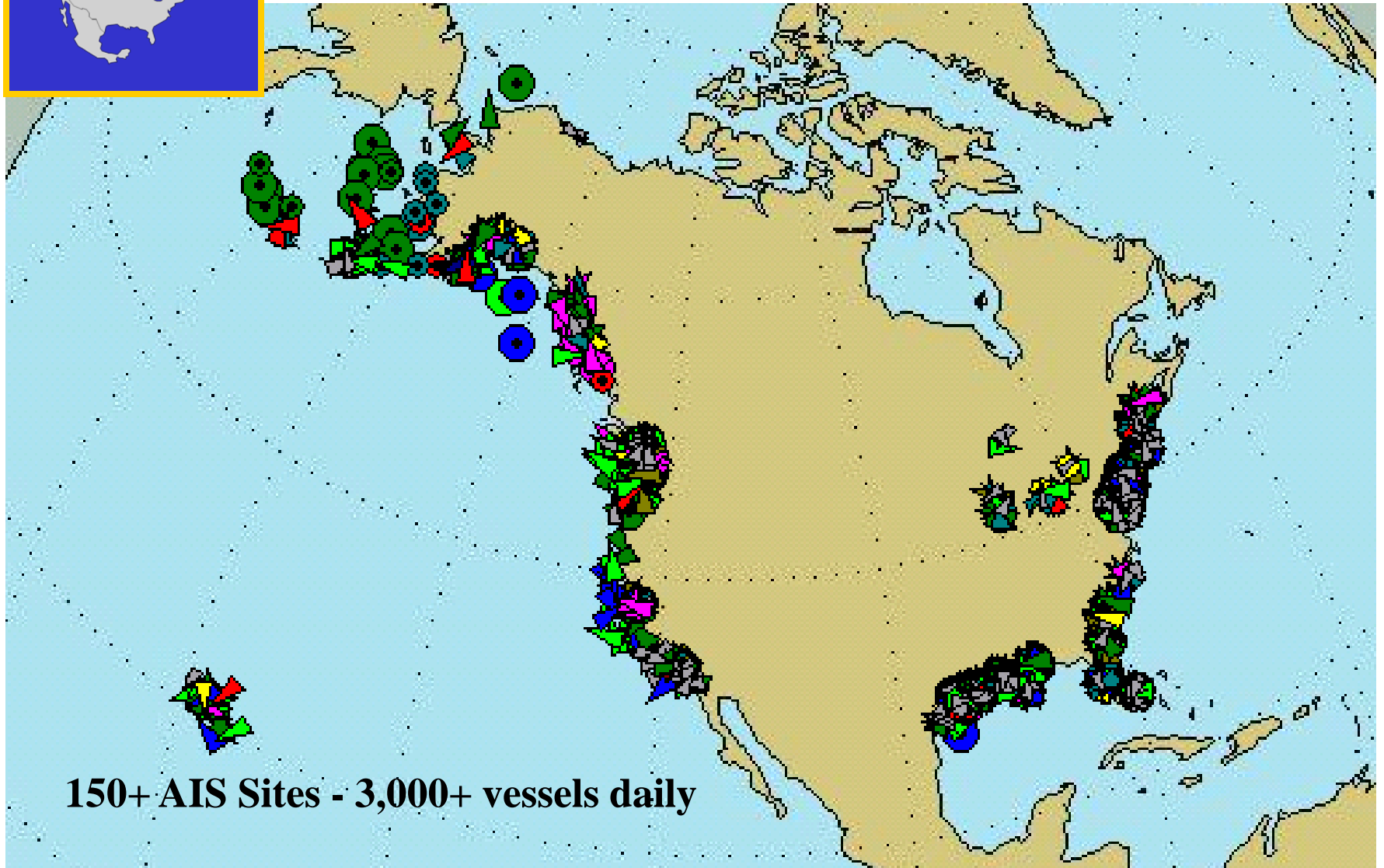
Installations at Lighthouses and Remote Areas





MISNA Vessel Tracking

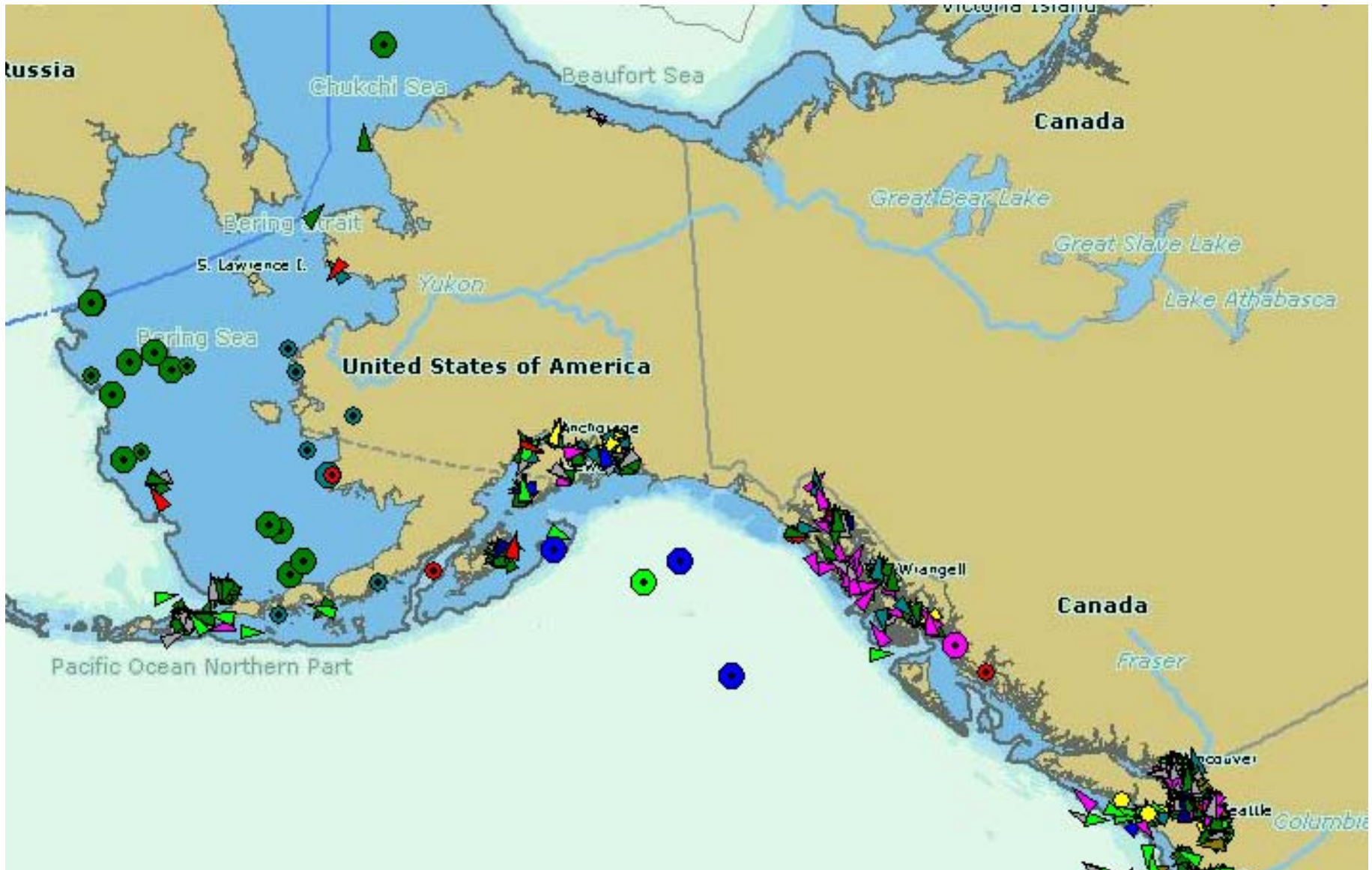
North America AIS and V-LRT



150+ AIS Sites - 3,000+ vessels daily

Vessels Operating in Alaska

Voluntary Participation in V-LRT



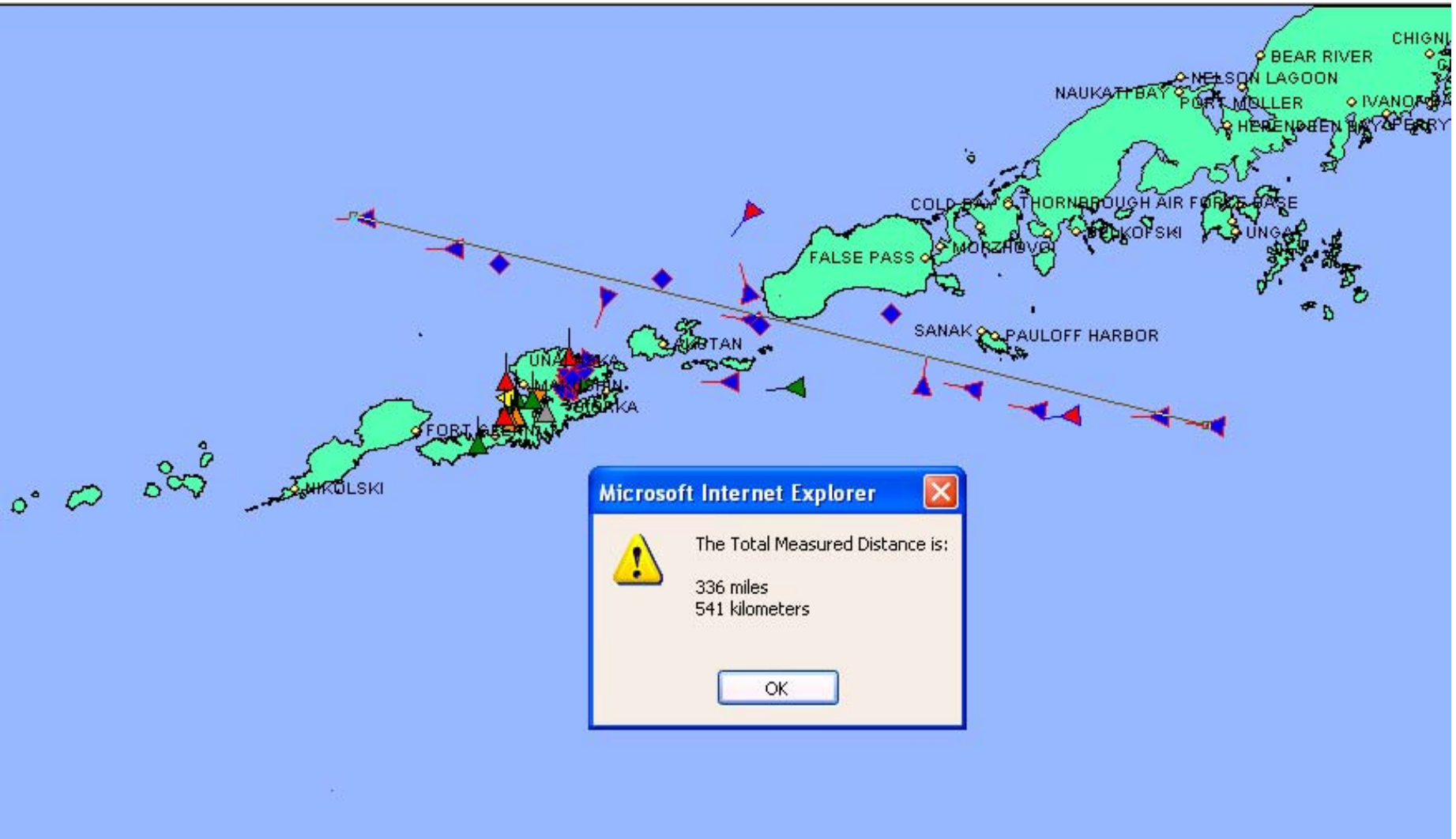
Why Track Vessels?

- Safety Net
- Risk Assessments
- Environmental Protection
- Validate Compliance
- Emergency Response
- Improve Efficiency
- Maritime Security

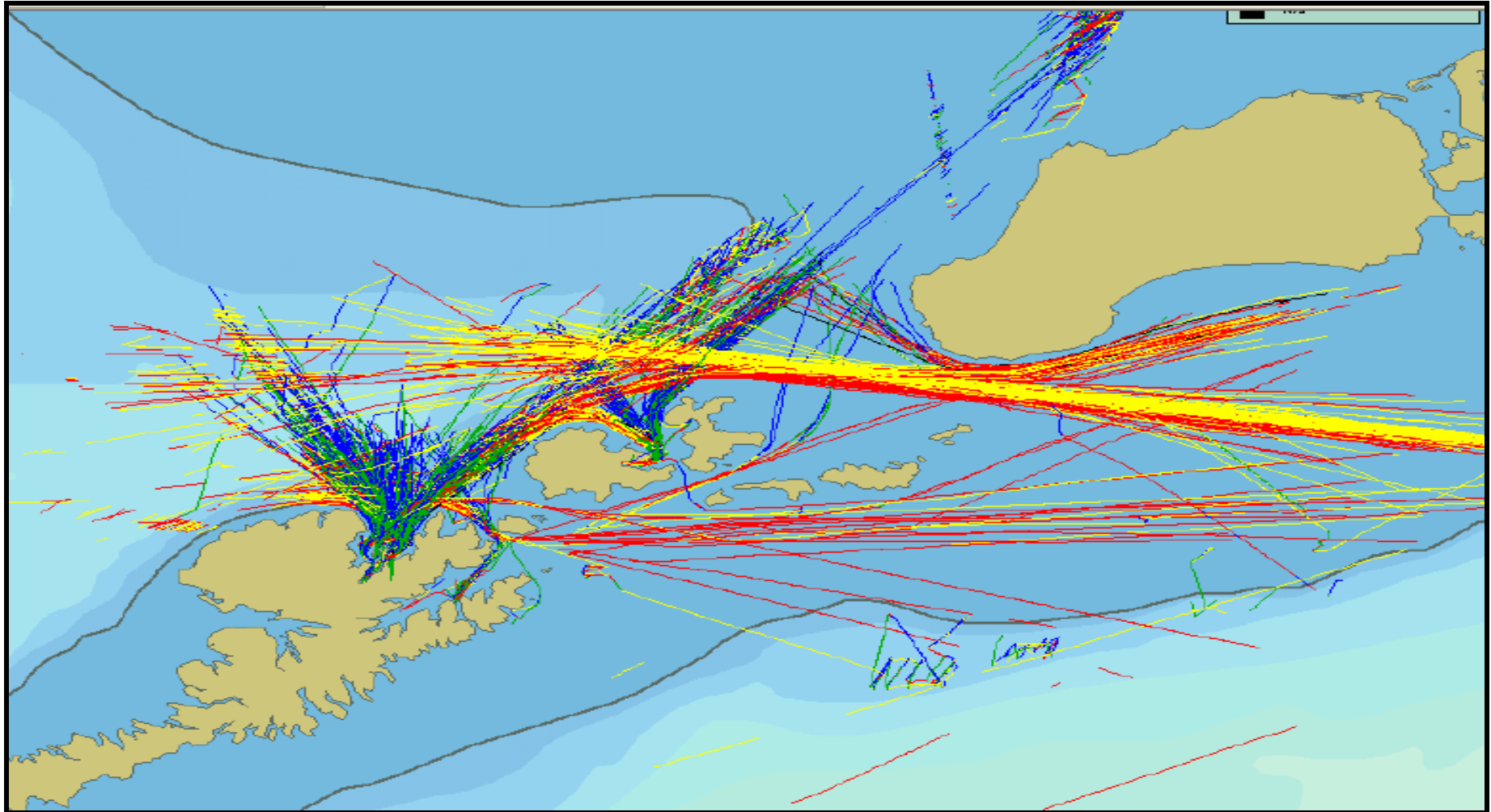


MISSION: Aid Safe, Secure, Efficient and Environmentally Sound Maritime Operations

Unimak Pass Vessel Traffic



Aleutian Islands Vessel Traffic Monitoring and Risk Assessment



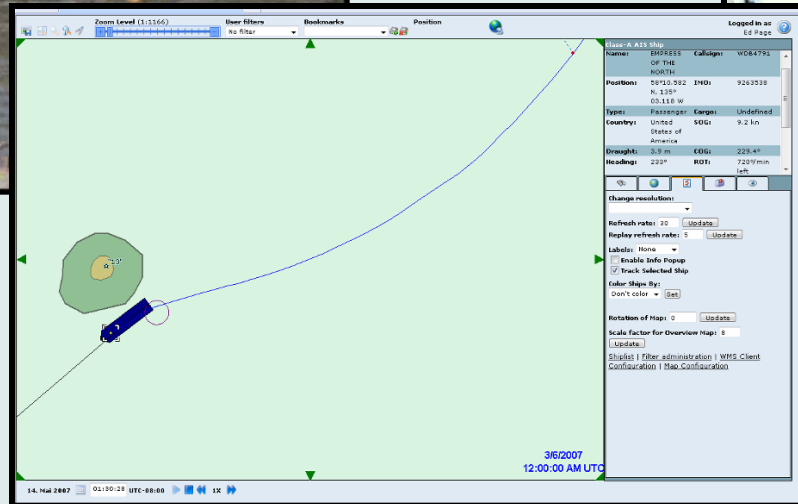
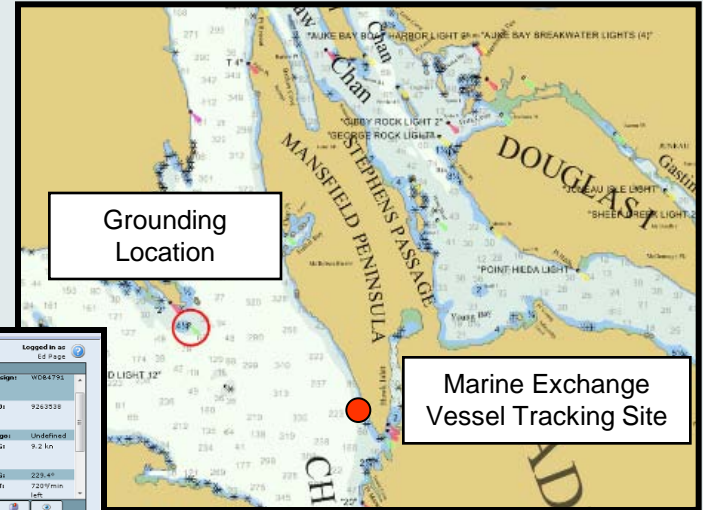
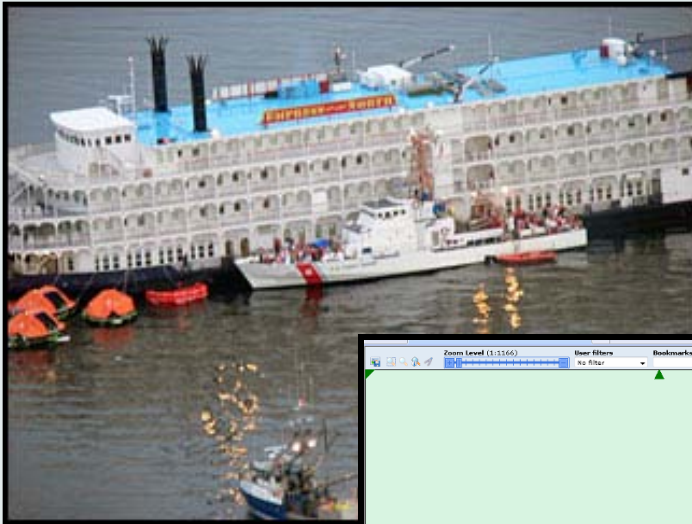
Emergency Response and Investigation

Passenger Vessel Empress of the North

Grounding and Abandon Ship

Icy Strait, Alaska

14 May 2007



Vessel Tracked with MISNA Automatic Identification System
Information available to aid emergency response and investigation

Monitoring the “Area to be Avoided” Olympic Coast National Marine Sanctuary

The screenshot shows a Microsoft Internet Explorer browser window displaying the GH AIS Webdisplay interface. The browser address bar shows the URL `http://216.67.61.34/webgad/main.php`. The page features a map of the Olympic Coast National Marine Sanctuary with a green grid overlay representing the 'Area to be Avoided' (ATA) zone. A 'Watchdog Area' panel on the right displays the following information:

Area	OCNMS Coordinates
Name: ZONE	(- 124.63666, 48.38833), (- 124.63667, 48.40284), (- 124.74417, 48.42583)

An email notification window is overlaid on the map, titled 'WatchDog activated on ship Bbc Chile, event OCNMS - Message (Plain Text)'. The email content is as follows:

From: AIS-Alert@mxak.org
To: jeveentjer@marineexchangeusa.com
Cc:
Subject: WatchDog activated on ship Bbc Chile, event OCNMS

Bbc Chile has entered the Olympic Coast National Marine Sanctuary - AREA TO BE AVOIDED ZONE, at 31 May 2007 04:17:55 GMT.

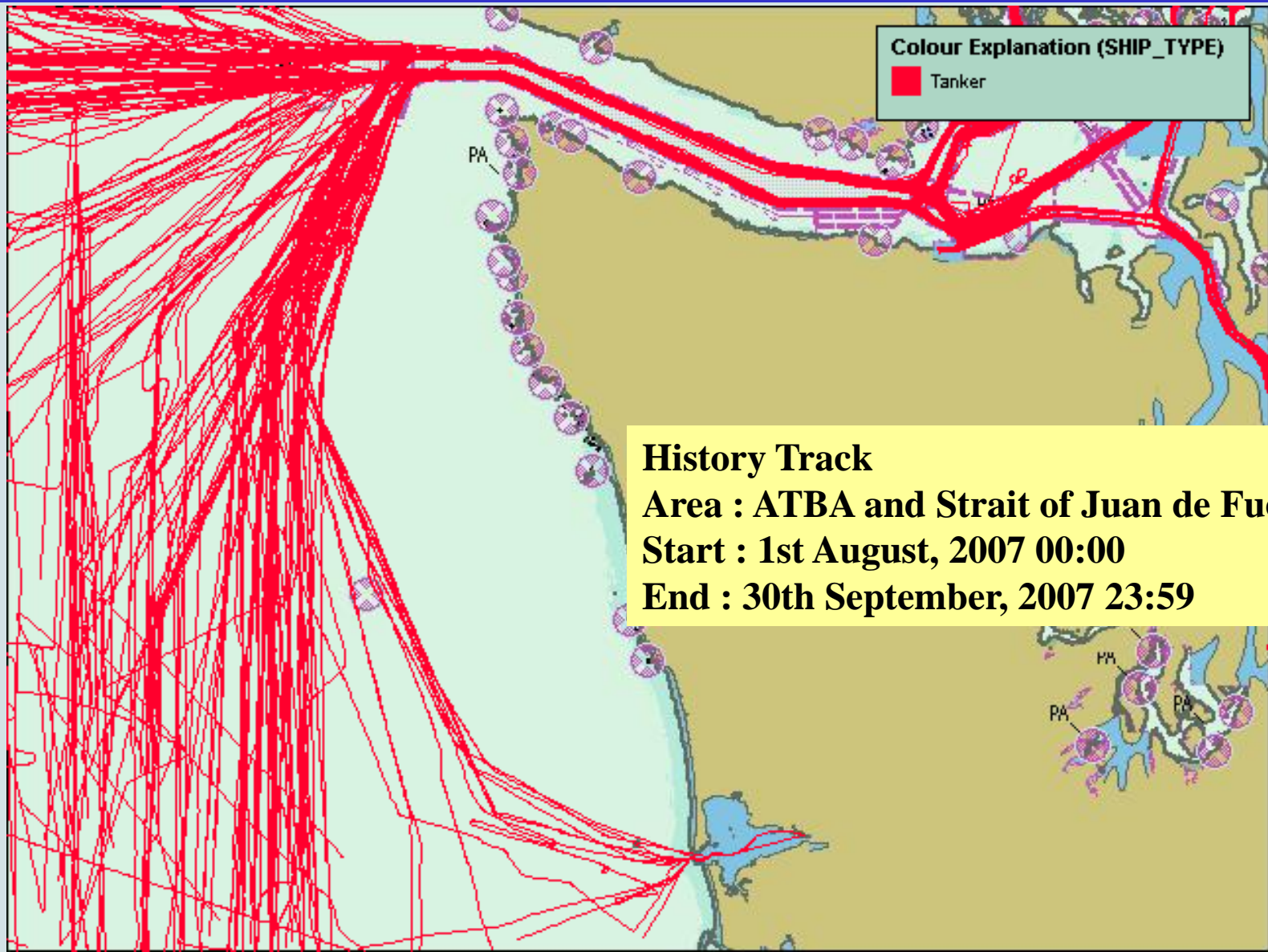
Vessel Details:
IMO Number: 9210335
MMSI: 304217000
Call Sign: V2AK6

(-8 hours = PST)
(-7 hours = PDT)

The browser's taskbar at the bottom shows several open applications, including '2 Microsoft...', 'Vessel Track...', 'ATBA - Micro...', 'WatchDog a...', 'Microsoft Excel', and another '2 Microsoft...' instance. The system clock in the bottom right corner indicates the time is 4:24 PM.

AUTOMATED NOTIFICATIONS
“WATCH DOG ALERTS”

Olympic Coast National Marine Sanctuary (OCNMS) Area To Be Avoided (ATBA) -- Trackline History

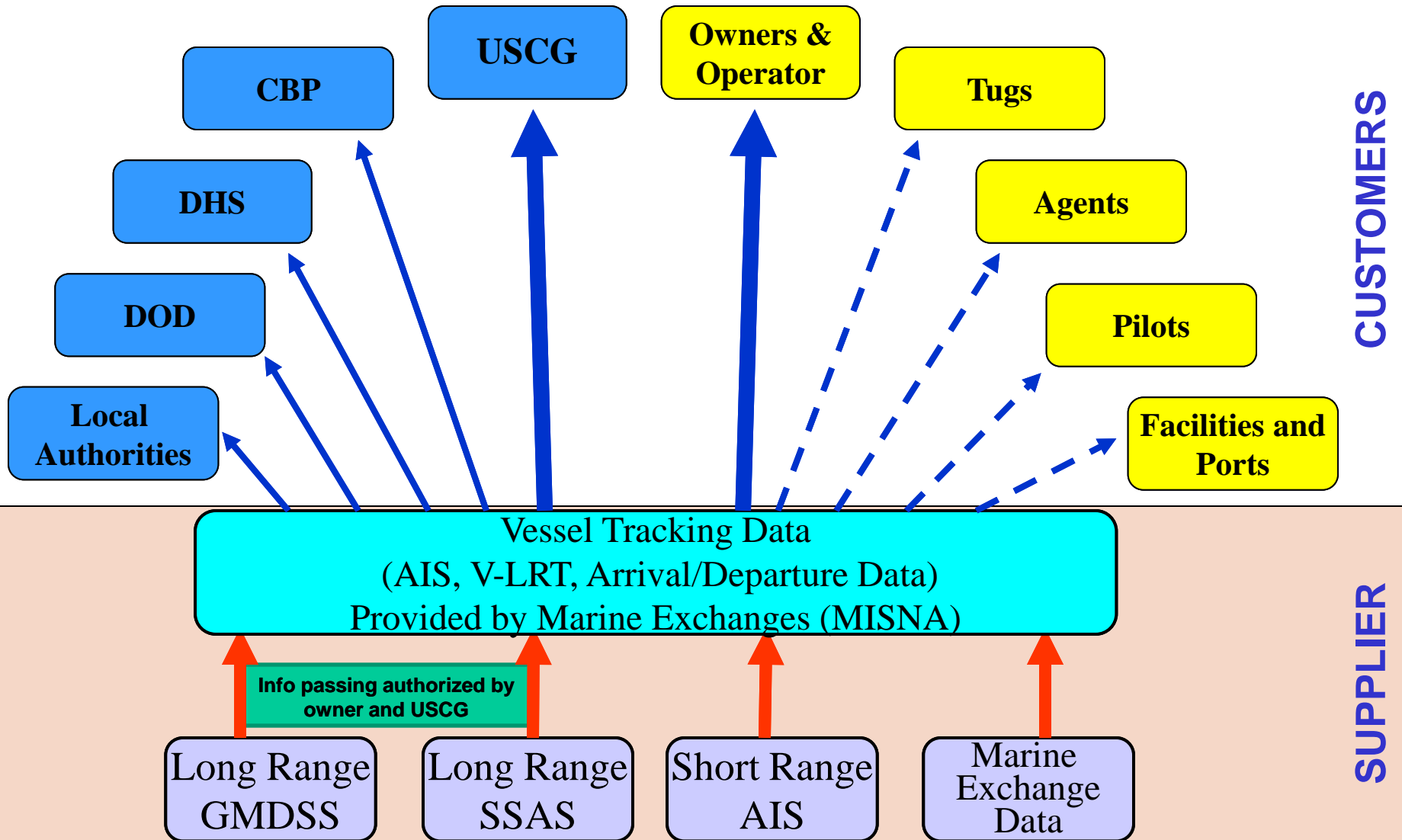


Summary

- Long established
- Non-profit
- Local private sector members
- Vessel activity / tracking **information**
 - real time
 - historic
- Many 24/7 operations
- Local maritime **communications**
- Building **relationships**, e.g.,
 - Local maritime community workshops
 - e.g., significant player in MIST workshops

Marine Exchange/MISNA

Vessel Tracking Information Flow

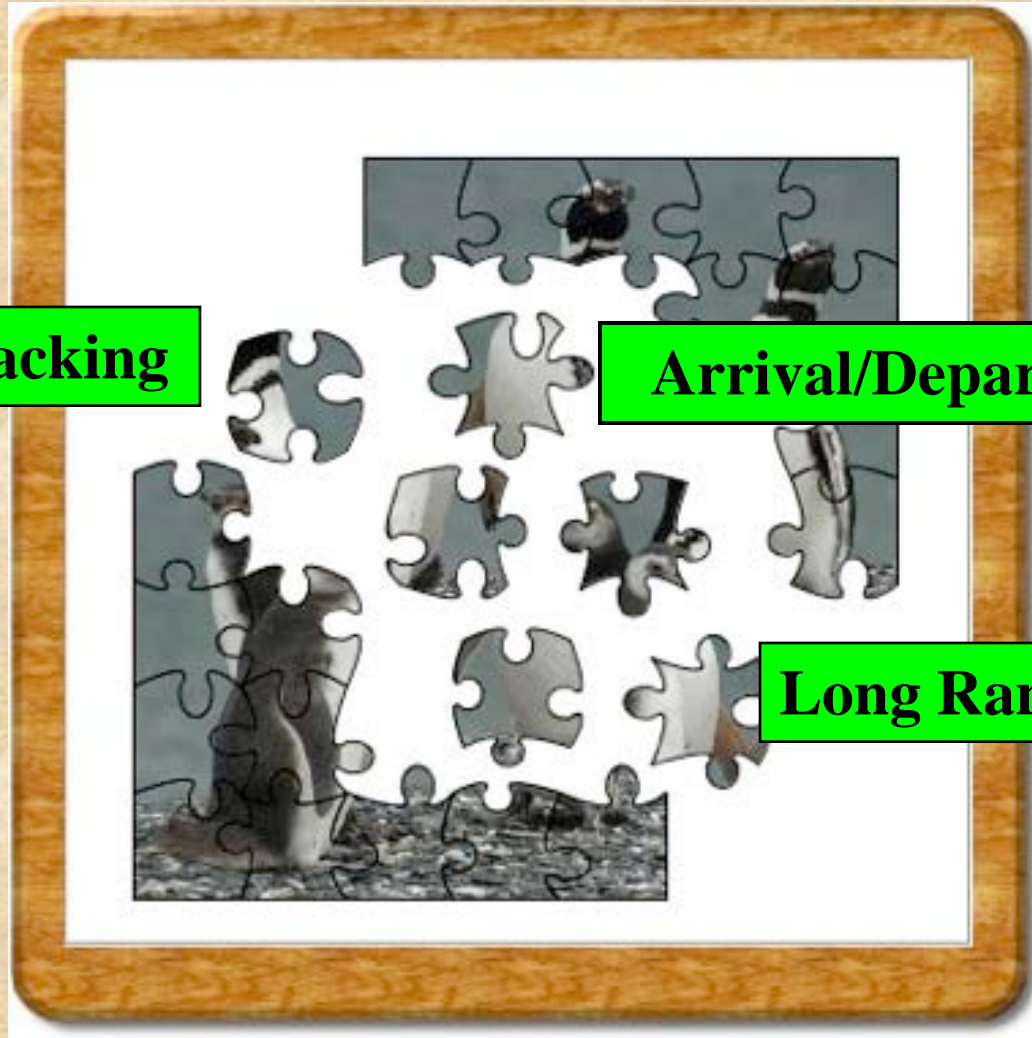


MISNA can assist in several pieces of the full MDA picture

AIS Tracking

Arrival/Departure Data

Long Range Tracking



IT'S ALREADY HAPPENING,

MAYBE WITHOUT YOU



Maritime Information Services of North America

A non-profit maritime organization established to provide information, communications and services to ensure safe, secure, efficient and environmentally sound maritime operations.

Points of Contact

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Or your local Marine Exchange

