





### **Employing Vessel Tracking and Communications to Aid Maritime Safety in Alaska**

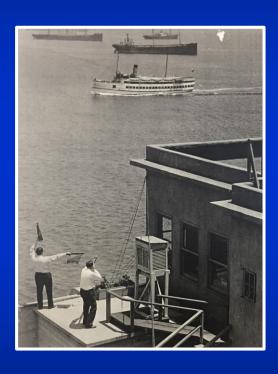
Matt York, Deputy Director, Marine Exchange of Alaska



The Marine Exchange of Alaska is a non-profit maritime organization established to provide the Alaska maritime community information, communications and services to ensure safe, secure, efficient and environmentally responsible maritime operations.

### Past Marine Exchanges

"Exchanging" Maritime Information







Semaphore - Chalkboards - Megaphones



Container



Cruise Ships



Oil Spill Response



Tugs and Barges



Cargo Ships

### Marine Exchange Customers



Tankers



Small Passenger Vessels



Fishing



Ferries



Coast Guard

### **Marine Exchange of Alaska**

24 Hour Operations Center1.5 million square miles



- Modern Day Information Brokers
- AIS Vessel Tracking
- Comms via Computers, email, phone, internet



#### **MXAK Alaska AIS and WX Network**





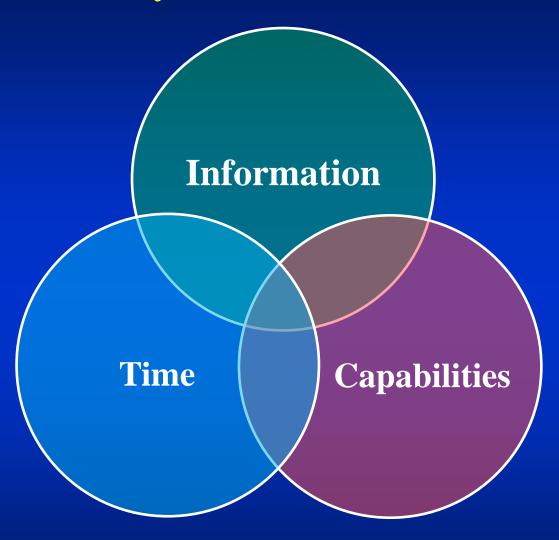


Remote – Self Supported AIS Sites





### **Maritime Safety and Environmental Protection**



**Prevention - Intervention - Response** 



### Selendang Ayu

No Maritime Domain Awareness and No Maritime Domain Management



### Risk Mitigating Routes Through Passes



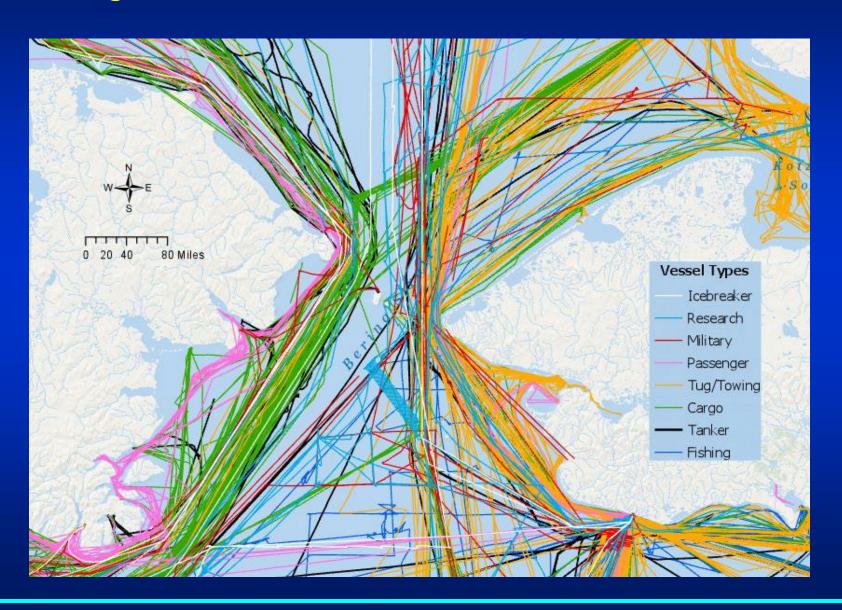
### Risk Mitigating Distance Offshore



## Bering Strait – Arctic Marine Traffic Assessments Install Sidewalks Where Students Walk



### Bering Strait - Arctic Marine Traffic Assessments



### Portable AIS







Pill Remin...



Bikemap



Cardiio





Clips



GarageBand



**VR PRO** 



DJI GO 4



**BackBeat FIT** 



**SmartCam** 



SmartCam+



Arctic Vessel



Booking.com



iMyFone



Remote



**AKAvCAMsLt** 



Measure



Secure VPN



**US&Canada** 

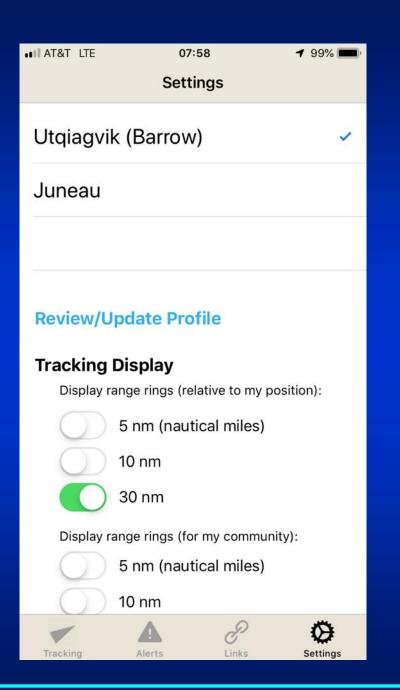
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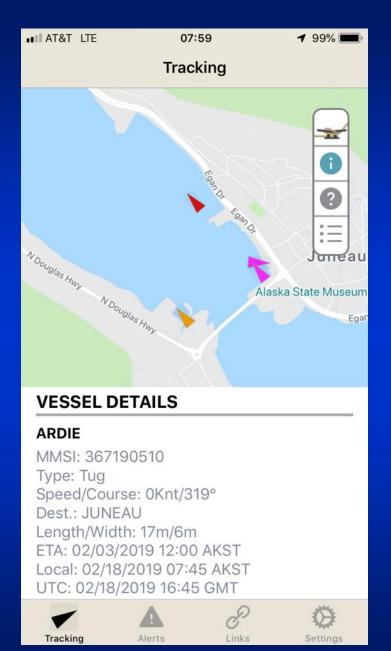


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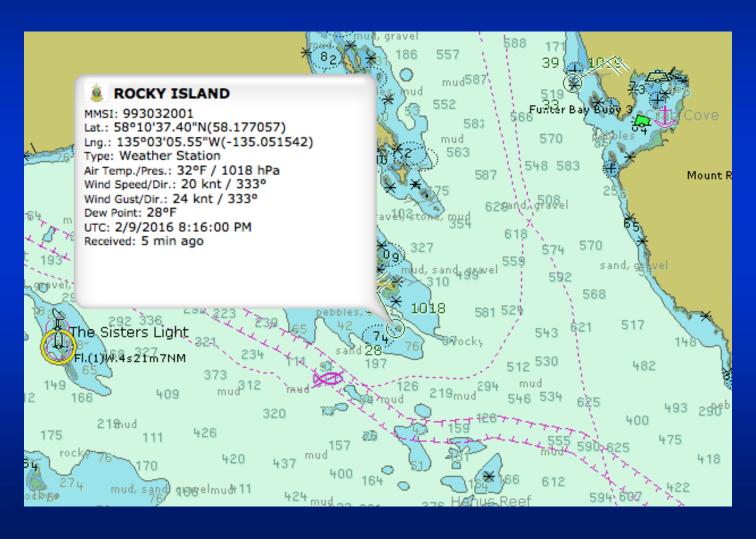
#### **Automatic Identification System** (AIS) and Satellite App Display







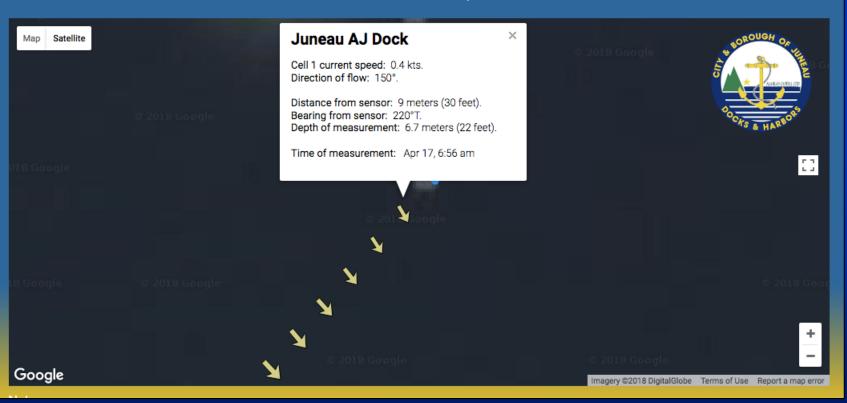
# eNAV Application WX Information



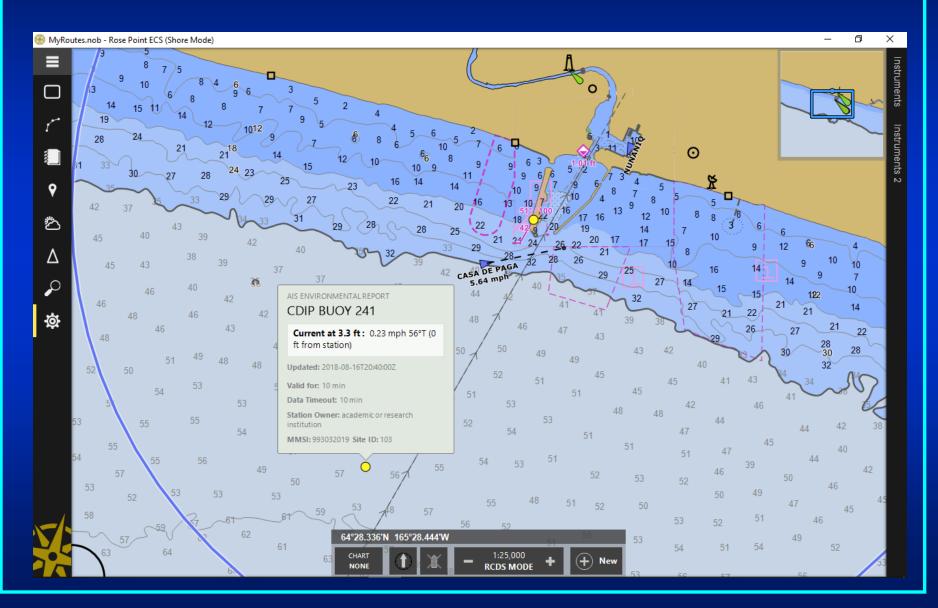
# PORT OF JUNEAU CURRENT SENSORS



Port of Juneau — Environmental sensors for wind, weather and tidal currents.



### NOME Environmental Data – Buoy Current and Waves



#### **INTERNET DISSEMINATION OF DATA**

#### LNM 38/17 ALASKA - SOUTHEAST - ICY STRAIT - NORTH INIAN PASS

The currents in North Inian Passage and Glacier Bay have been observed at up to 3 knots above the NOAA published current predictions. Mariners should exercise caution when transiting the area. Questions/concerns should be directed to LT Bart Buesseler at (907) 271-3327 or by email to bart.o.buesseler@noaa.gov.

or

