

Traffic Board Meeting
of the North Atlantic Ports Association
November 3, 2021
via TEAMS

Martha Klimas, Bridgeport Port Authority, Chairman

Dominic Scurti, Maryland Port Administration, Vice Chairman

Port Impacts



Container/chassis traffic (discussion)

East coast ports status



Golden Ray cargo ship (item of note)

Last piece removed on 10/25/21 – 2 years after capsizing

NTSB ruled incorrect calculations on vessel stabilization were cause of capsizing

Debris and trash removed from water & shore = cleanest beaches and marshes have been in years

Canadian Port Updates

- Port of Sydney (Paul Carrigan, General Manager)

- Port of Souris (Andy Daggett, General Manager)



Avoiding Abandoned Vessels (discussion)

Before they even dock

- Insurance
- Payment
- Vessel
Registration/documentation
papers
- ?What else?

State vs. Federal

- Each State has its own regulations for removal
- Vessels documented with USCG fall under Federal rules

116th Congress - S 1811 Water Resources Development Act of 2020

Water Resources Development Act of 2020

This bill modifies water resources infrastructure funding and addresses Army Corps of Engineers projects for navigation, flood damage reduction, and ecosystem restoration.

The bill removes certain funds appropriated for harbor operations and maintenance from annual discretionary spending limits. This allows additional funds to be appropriated for these purposes without the amounts counting against annual discretionary spending limits. Further, the bill increases the percentage of available funds allocated annually to emerging harbors (i.e., those that handle less than 1 million tons of cargo annually).

Additionally, the bill modifies cost-sharing requirements for the construction of inland waterway projects for FY2021-FY2027.

Further, the Corps of Engineers must establish a pilot program to address the flood and storm damage risk reduction needs of economically disadvantaged communities. The Corps of Engineers may also construct projects for flood and coastal storm risk management in areas that have had been impacted by repetitive flooding. The Corps of Engineers must also identify any engineering or maintenance defects for levees in the national database.

The bill also creates a process to de-authorize projects that are no longer viable for construction and authorizes new projects, including projects for navigation, flood damage reduction, shoreline protection, and ecosystem restoration.

In addition, the Government Accountability Office must study (1) consideration by the Corps of Engineers of natural and nature-based features during project planning, (2) mitigation of the impact of water resources development projects, and (3) the operation and maintenance needs of federally authorized harbors and inland harbors.

Renewable/Alternate Fuels – ECO Cranes

Two companies offering Hybrid conversion systems for RTG
Mi-Jack or KoneCranes

Both systems are EPA Certified technologies

Both companies/systems offer retro fit on diesel units

Both companies say their cranes are “Made in the USA” certified

Both companies' retrofits offer “near zero” compliance

Retrofit cost approx. \$400,000 vs. \$2.4million if new purchase

Retrofit has been a DERA funding eligible activity (60% DERA max)

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Unmanned Surface Vessels (“USV”s), a.k.a. Ocean Drones

- Sailable, Inc.
- **Sailable** is a US small business that designs, manufactures, and operates a fleet of the world’s most capable, proven, and trusted, uncrewed surface vehicles (USVs). Predominantly powered by wind and solar, Sailable USVs have a minimal carbon footprint and are equipped with advanced sensors and ML technology to deliver critical data and intelligence from any ocean, at any time of year. Solutions include maritime domain awareness, ocean data, and ocean mapping. Sailable operations and data collection services are encrypted and secure.





SAILDRONE

Saildrone, Inc.

- **Quick Facts**

- Saildrones are wind and solar powered
- A trim tab on the tail adjusts the wing angle to the wind similar to how an elevator trim tab controls the pitch of an aircraft
- Saildrone has two base vehicles:
Saildrone Explorer – the hull is 7 m (23 ft) long, the wing is 4.5 m (15 ft) tall, the keel draws 1.8 m (6 ft)
Saildrone Surveyor – the hull is 22 m (72 ft), the wing is 18 m (59 ft), the keel draws 4 m (13 ft)
- Saildrone's current fleet is made up of Generation 5 & 6 Saildrone Explorers and the Surveyor
- Saildrones are designed for missions of up to 12 months
- Saildrone USVs navigate autonomously from prescribed waypoint to waypoint while staying within a user-defined safety corridor, though actively supervised by a Saildrone Mission Control operator
- Saildrone USVs carry approximately 20 science sensors to collect in-situ meteorological and oceanographic data
- Saildrone USVs are not for sale; Saildrone offers mission-as-a-service (MAAS) and data-as-a-service (DAAS) solutions
- Saildrone has operated Arctic, Antarctic, Pacific, Atlantic, and coastal missions collecting data related to weather and climate science, carbon uptake, sustainable fisheries management, animal tracking, satellite calibration and validation, oil detection, and bathymetry

Ocean Drones

- Saildrone partners include world defense, civilian, government and scientific organizations, including; NOAA (several divisions) Woods Hole Oceanographic Institute, NASA, Institute of Marine Research (Norway), JAMSTEC (Japan Agency for Marine-Earth Science and technology), USCG, USN, University of Rhode Island, University of New Hampshire, among others
- **Not for consumer sale; not for consumer use** (MAAS or DAAS only)
- **DHS/USCG regulations – no known rulemaking as yet for any type of ocean drone**

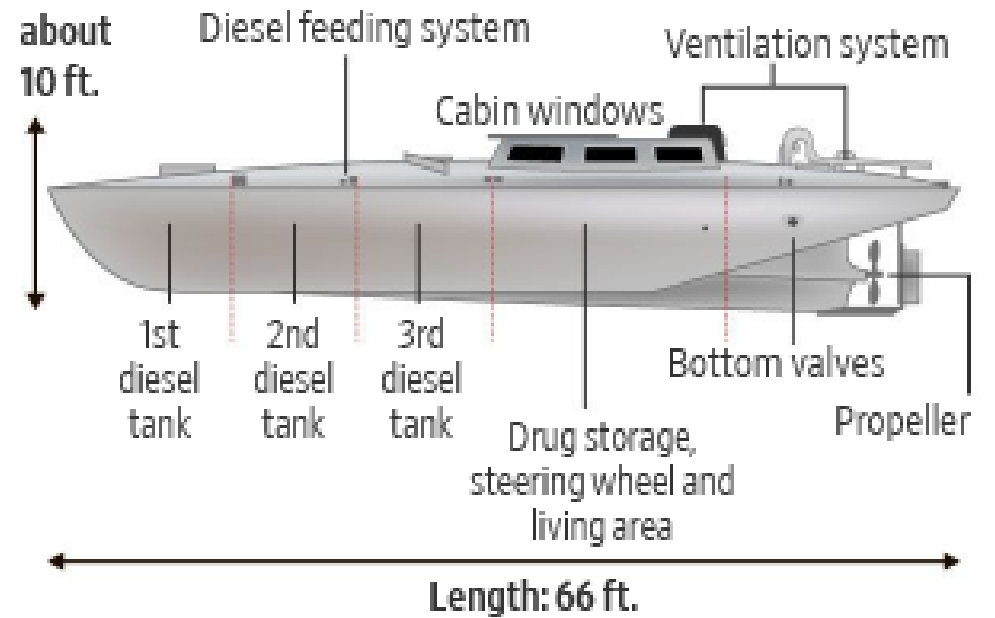
Other USVs - Narco Drones

Low Profile

Narco-submarines are low-tech but very difficult for law enforcement to detect.

Semisubmersible specs

Height:
about
10 ft.



Source: Spain's National Police

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WORLD

First 'Narco-Submarine' Caught After Crossing the Atlantic

Law-enforcement authorities say a vessel seized in Spain that was carrying tons of cocaine represents a new tactic in trafficking to Europe

A Spanish National Police officer enters the seized craft in Vigo, Spain. MANU BRABO FOR THE WALL STREET JOURNAL

By [James Marson](#)
Oct. 18, 2020 11:00 am ET

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Unmanned Aircraft (UAS)

- Unmanned aircraft systems (familiarily, “drones”) are being used for bridge inspections; governed under FAA but most consultants take the extra step to notify U.S. Coast Guard of their presence/intentions.
- USCG suppose to be notified when working near a body of water/ structures
 - USCG notifies regional marine groups
- Any questionable activity, call your local USCG

Cybersecurity

- Get to know your FBI PCOR (Cyber Program Coordinator) before there is a crisis
- <https://www.fbi.gov/contact-us/field-offices>
- No matter how many cybersquads an FBI office has, there is only one PCOR per office; the PCOR will direct you to the POC (point of contact) if the need should arise



Ransomware Attacks

Most Ransomware are Double Extortions events – 1 to unlock your systems, 2nd to get back your data

Professional tip - NEVER negotiate; they've already looked at your financials and insurance policies and know how much you can afford to pay (go back to Know your FBI PCOR)

Recognized as Organized Crime, most are State sponsored

- Cyber Security evaluation toolset & Ransomware Readiness Assessment available at
- www.cisa.gov/stopransomware/cyber-security-evaluation-toolset-csetr

Cybersecurity Insurance

- Estimated cost of attacks and recover is approx. \$150-200 per data record attack (10,000 records = \$1.5 million cost)
- Cyber Insurance will require
 - Data encryption at rest
 - Multi-factor authentication
 - Robust incident response plan

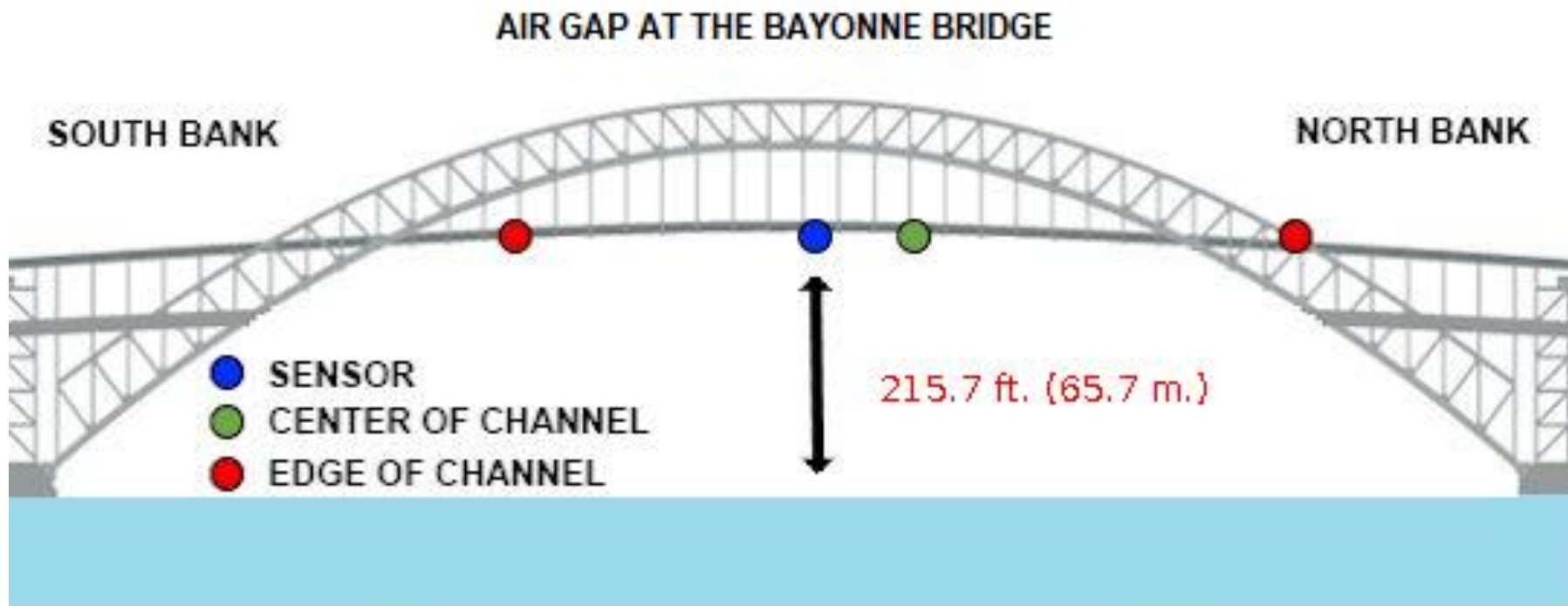
Professional tips;

- Include a regular employee training program
- Know your IT systems so you can detect compromises early
- Regularly test your systems, have them tested by outside agencies

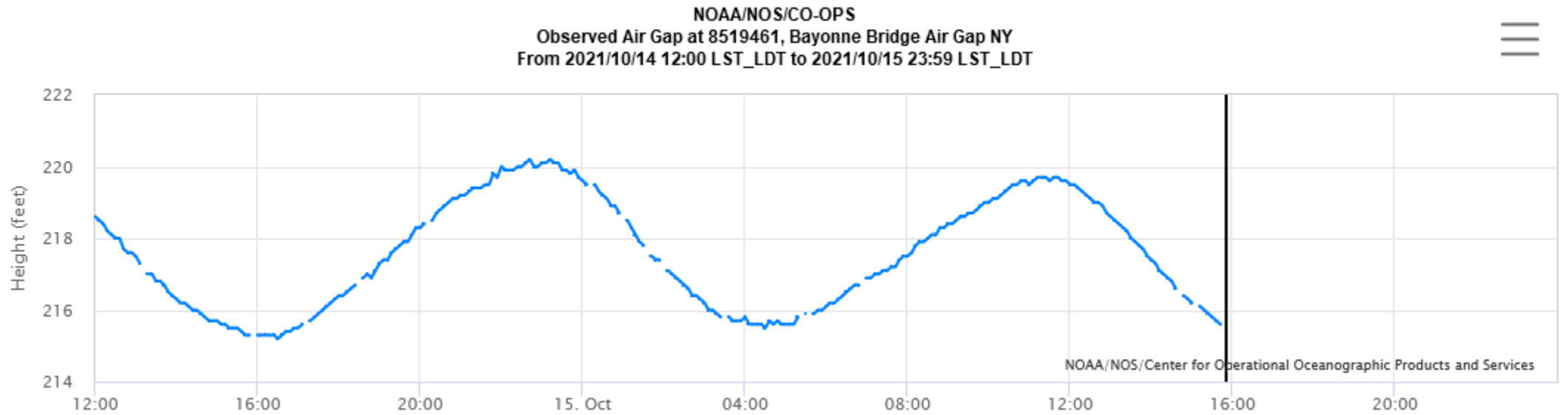
PORTS vs. NWLON systems

- 30th anniversary of NOAA's first **PORTS** system (Physical Oceanographic Real Time System) and **NWLON** (National Water Level Observation Network)
- Came about after 2nd ship strike of bridge structure in Tampa – 24 people were killed
- NOAA's PORTS supports 80 U.S. seaports
 - 10 different types of data including water level, wave height, currents, salinity, wind, water temp, bridge air gap clearances, visibility (fog)
 - Updates every 6 minutes
 - Available 24/7

PORTS Air Gap reading (10/15/21, 3:39 p.m.)



Air Gap changes thru out a day



PORTS vs. NWLON

- NWLON = national water level observation network
- Observations include;
- Water levels
- Water temps
- Air temps
- Wind
- Air pressure

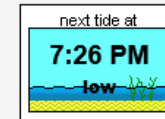
Find more info @
[Tidesandcurrents.noaa.gov](https://tidesandcurrents.noaa.gov)

Bridgeport, CT - Station ID: 8467150

[Station Info](#) [Today's Tides](#) [Photos](#) [Sensor Information](#) [Observations](#) [Directions and Map](#) [Available Products](#)

Established:	Jun 10, 1932
Time Meridian:	0° E
Present Installation:	Sep 08, 1989
Date Removed:	N/A
Water Level Max (ref MHHW):	5.72 ft. Oct 30, 2012
Water Level Min (ref MLLW):	-4.58 ft. Feb 02, 1976
Mean Range:	6.74 ft.
Diurnal Range:	7.32 ft.
Latitude	41° 10.4 N
Longitude	73° 10.9 W
NOAA Chart#:	12369
Met Site Elevation:	13.26 ft. above MSL

Today's Tides (LST/LDT)



12:49 AM	high	6.9 ft.
6:52 AM	low	0.7 ft.
12:59 PM	high	7.4 ft.
7:26 PM	low	0.3 ft.

Army Corps MOA's (discussion)

Most state DOT's have an MOA with Army Corps that prioritizes their project permit applications (annual fee covers all DOT projects)

Can we do the same with Customs and Border Protection – prioritize specific ports (for a fee)

- Can fee be passed on thru tariff?

What Else?

Questions, Comments, Suggestions

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