

Association of Pacific Ports Conference Longbeach, CA, August 16, 2023



REAL-TIME COASTAL INTELLIGENCE

# **Company Overview**

MarineLabs Data Systems Inc. – A real-time coastal intelligence company

- Located in Victoria, Canada
- Website: marinelabs.io
- Operating currently in Pacific and Atlantic

Selected Clients, Partnerships, Affiliations:















Canadä



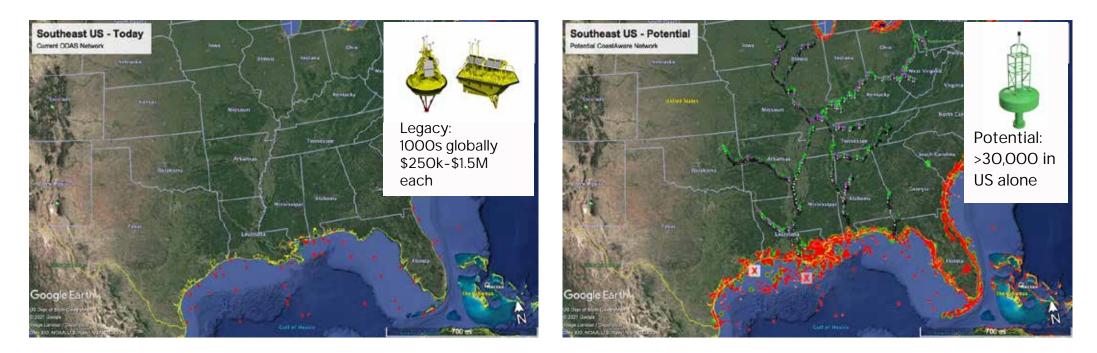


KONGSBERG

### Problem



### SOLUTION: Every float in the world should be a real-time data station



#### Now with Legacy Tech

Our Vision



# Why?

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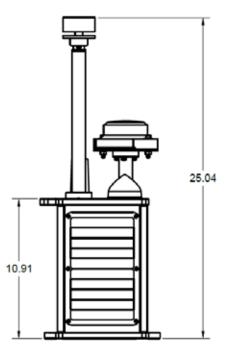
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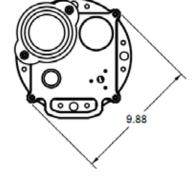
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# **CoastScout**<sup>™</sup>

- 15min updates
- Cell (LTE), + Satellite backup
- Wave: Directional using GPS, IMU fused for wave measurement
- Wind: Ultrasonic sensor (Speed, gust, direction)
- Camera: 360degree
- Solar powered, self contained
- 4 bolt mounting using std. pattern
- MIL SPEC Shock & Vibration tolerant
- Uses QARTOD NOAA standard QA/QC
- US Patent Pending





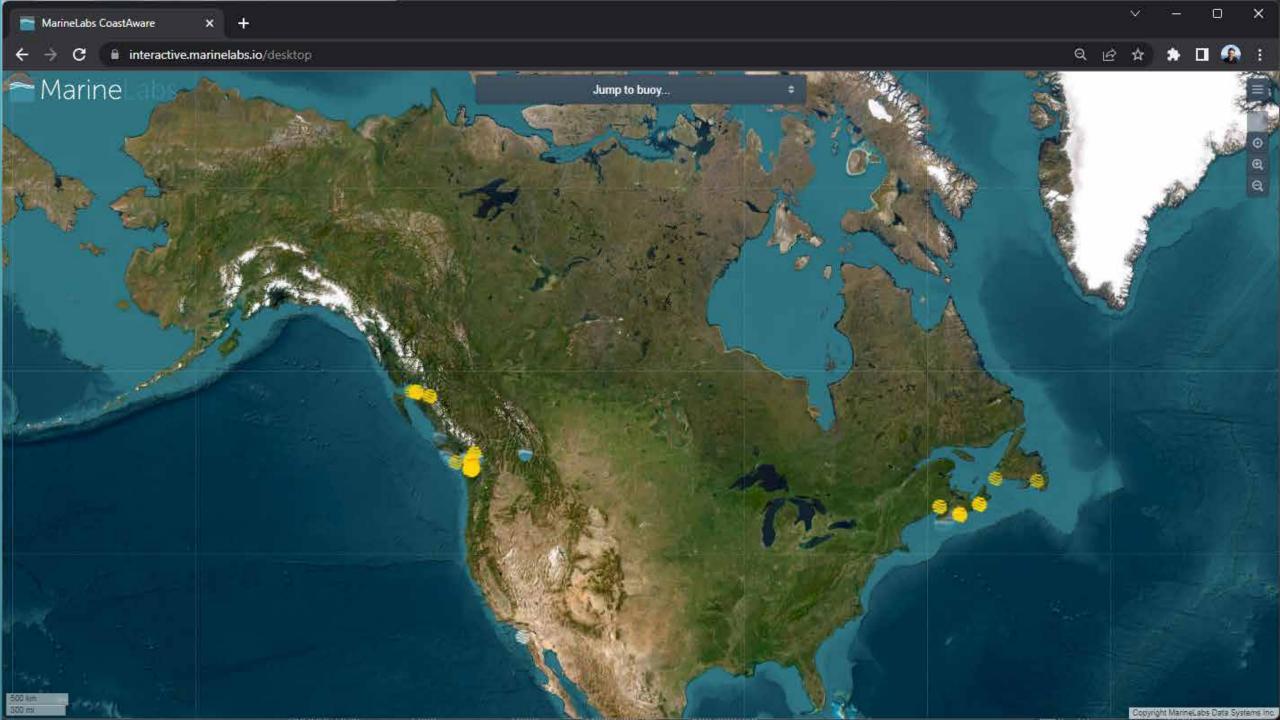


### **CoastAware**<sup>™</sup>

The world's highest resolution, persistent, real-time weather data







### HOW DOES IT WORK: Subscription based service

- MarineLabs owns and operates the hardware
- Subscriptions to Port/Pilots/Industry
- Data access by phone, browser, API

### Why do Ports Care?

Safety & Efficiency
 Tailored to Port
 Security
 Climate resilience

### Safety & Efficiency

Handle larger ships in tight weather margins
Reduce unforeseen weather delays and cancellations

Incident/Accident avoidance

### Tailored to the Port

Fill gaps in existing weather data
More frequent,
More accurate
More reliable

### **Reliability in Numbers**

### With a single data buoy

### With MarineLabs

# MarineLabs

### Reliability in Numbers

### Data void

### Still reliable data

# MarineLabs

# Security

# BuoyCam Vessel wake detection



### Buoy Cam

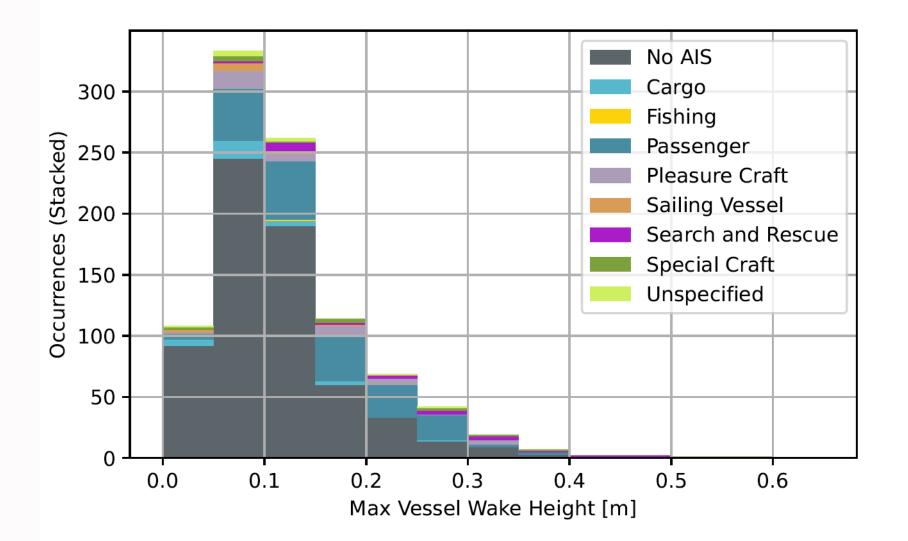
- 360degree view every 15min
- Weather context for Pilots
- Visibility information
- Security monitoring applications



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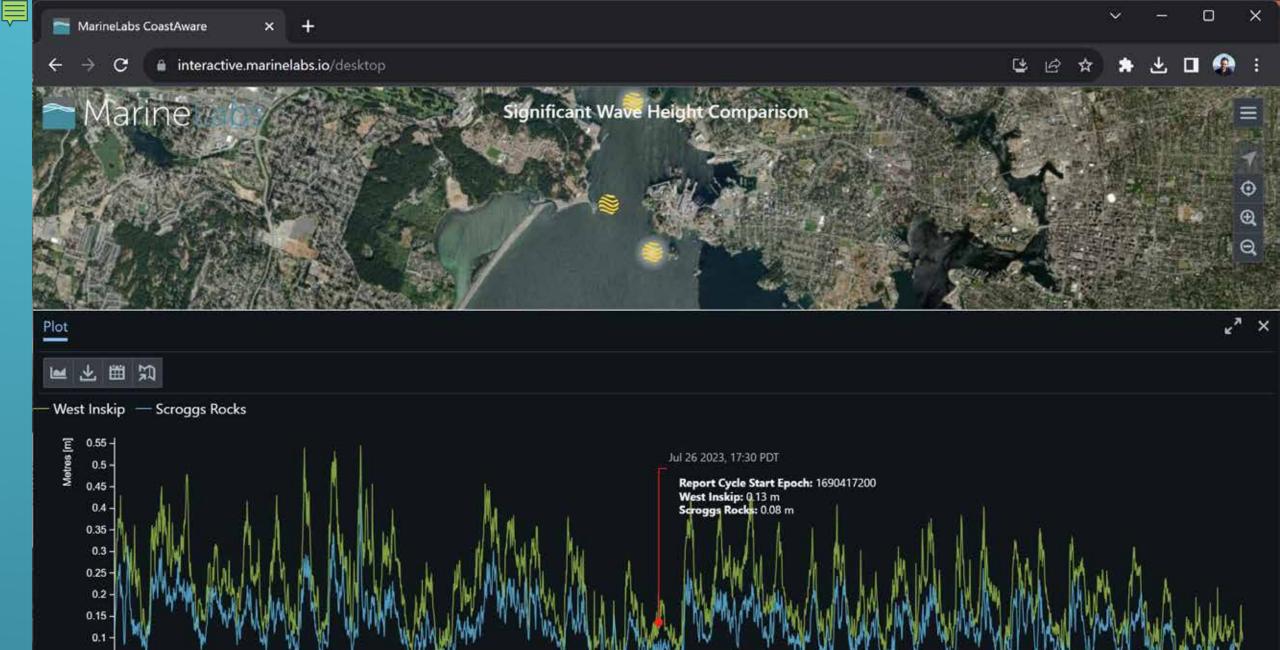
### **Vessel Wake Detection**



### **Climate resilience**

### Long term data feeds directly into port and harbor design.





Jul 23

Jul 30

Aug 13

Aug 06

0.05 -

Jul 09

Jul 16



Brent Baxter Harbour Master Prince Rupert Port Authority "We simply wouldn't be able to smoothly support the new class of ships without MarineLabs data."



Adam Parsons Director, Marine Operations and Harbour Master Port of Halifax "....MarineLabs provide all of us working in the marine environment with information that will ultimately lead to safer outcomes for all involved."



We bring real-time data as service
Making ports safer, greener and more climate resilient

# MarineLabs

REAL-TIME COASTAL INTELLIGENCE Scott.beatty@marinelabs.io