

Real-time and Predictive Coastal Intelligence

Company Overview



- MarineLabs Data Systems Inc. A coastal intelligence company
- Canadian Owned and Operated Victoria, BC
- Incorporated Feb. 2017
- 24 Employees
- Operational on both East and West Coasts of North America



































Problem
Port size remain the same,
but ships are getting larger
and weather more volatile.

October 31, 2024

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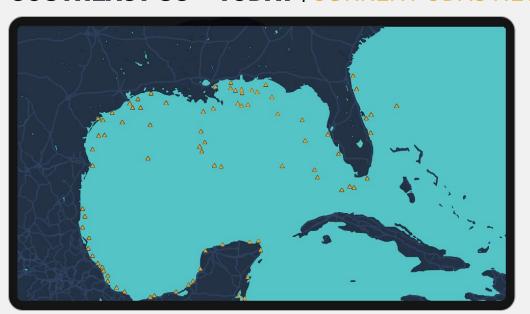


Solution Every float in the world should be a real-time data station.

Problem

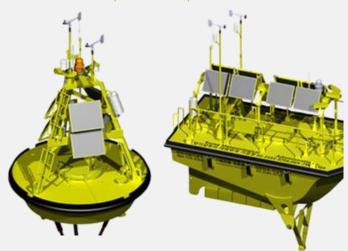


SOUTHEAST US — TODAY | CURRENT ODAS NETWORK



LEGACY ODAS BUOYS

THOUSANDS GLOBALLY COST: \$250k - \$1.5M EACH



Solution



SOUTHEAST US – FUTURE | POTENTIAL NETWORK



EXISTING BUOYS

AMOUNT: TENS OF THOUSANDS IN THE US ALONE



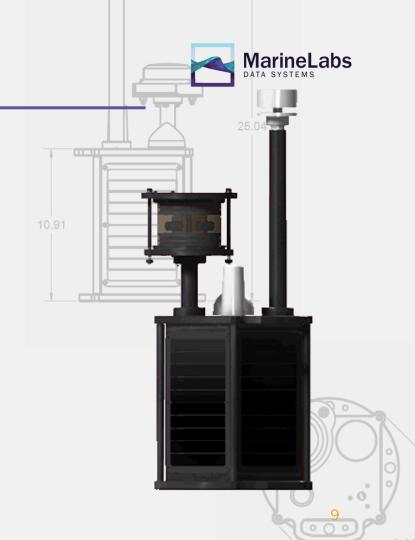




How We Do It

Rapid-deploy, solar powered, self contained sensor nodes collect new real-time data:

- Wind
- Wave
- 360-Degree Cameras
- Vessel Wake Detection







Turns AtoN into Smart Buoys



- Mounts on standard cage above lantern
- No modifications to AtoN
- MarineLabs works with and benefits to CoastGuard:
 - Asset management
 - Weather intelligence





Also Works on Small Buoys

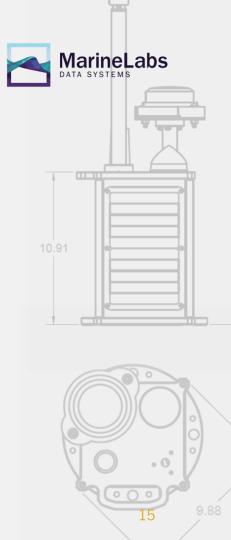


- 0.9m diameter
- ~80kg
- Max 4kn current, ~200m (~650') water depth
- Meets or exceeds all private buoy regulations
- MarineLabs handles the anchor/mooring/float and all maintenance.
- Often deployed for specific Port monitoring weather intelligence, climate resilience, vessel wake detection



Subscription Based Service

- MarineLabs owns and operate the hardware
- Subscriptions to Port/Pilots/Industry
- Charge per month per location
- Data access by phone, browser, API





CoastAware



- Fully-managed, hassle-free operations
- Real-time updates and API integration
- Customizable alerts and views
- Use existing locations, commission new ones, or convert AtoNs



BuoyCam



Real-time eyes-on-the-water







Forecast Al

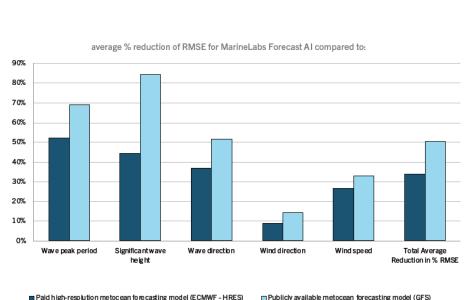


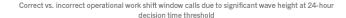
- Accurate, hyper-local forecasts that account for each location's unique characteristics and geography
- Consistently outperforms trusted third-party models
- More accurate predictions you can rely on

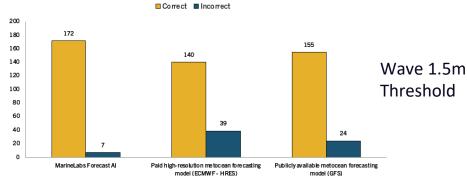


Forecast AI - Performance

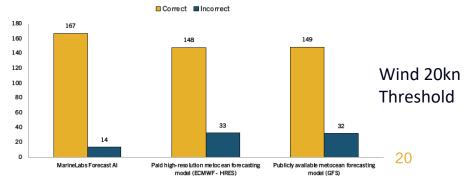








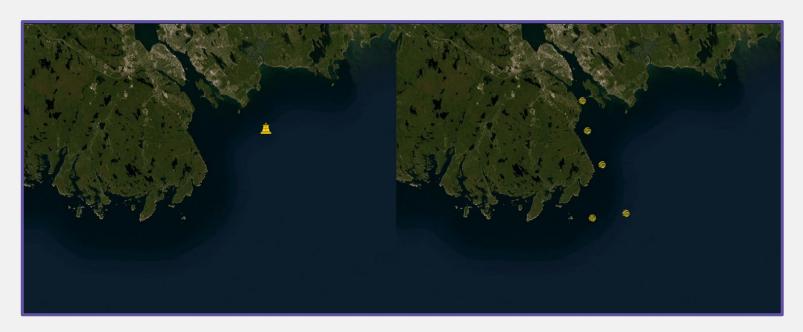
Correct vs. incorrect operational work shift window calls due to wind speed at 12-hour decision time threshold



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Reliability in Numbers





Single ODAS buoy

Fleet of Sensor Nodes

Reliability in Numbers



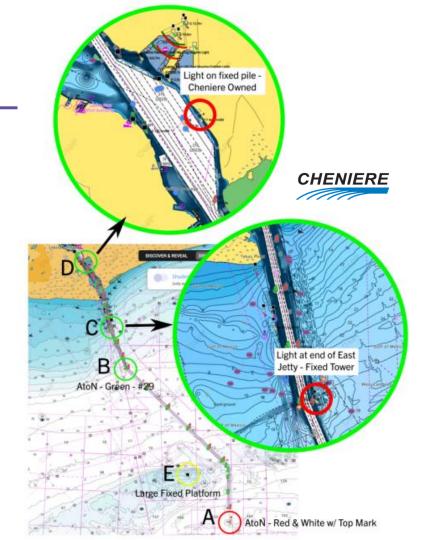


If your ODAS goes down, you have nothing

If one node goes down, you have 4 others

Sabine Pass Summary

- 5 locations along channel
- 4 on fixed structures, 1 on a buoy
- First deployments by end of 2024

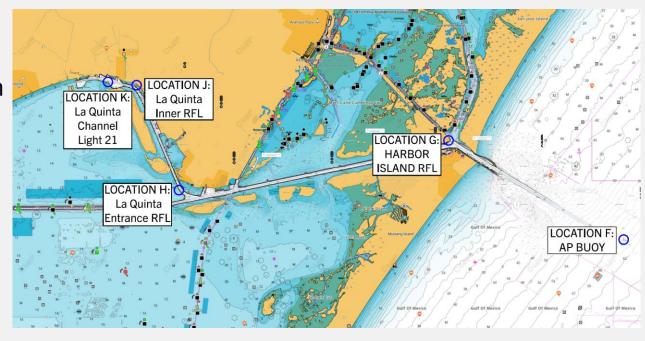


Corpus Christi Summary





- 5 locations along channel
- First deployments in 2025



Testimonials





"We simply wouldn't be able to smoothly support the new class of ships without MarineLabs data."

BRENT BAXTER
Harbour Master (ret'd), Prince Rupert Port Authority

Testimonials



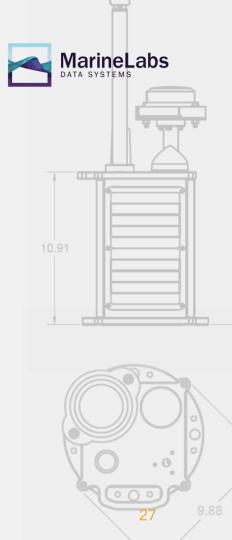


"MarineLabs transform weather data into actionable insights. Their forecasting solution empowers my team to help optimize resource allocation, enhance safety, and improve overall port efficiency through informed strategic planning."

COMMANDER (RET'D) COREY GLEASON
MMM, MSC, CD, PME
Deputy Harbour Master – Port of Halifax

Why do Maritime Operators Care?

- Handle larger ships in tight weather margins
- 360 cams help determine visibility
- Reduce unforeseen weather delays and cancellations
- Incident/Accident avoidance
- Data is more frequent, more reliable
- Subscription service is tailored to your workflows





Thank you!
Reach us at sales@marinelabs.io

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