VAISALA

AGAINST THE WIND:
Be prepared for sudden winds in ports

How big is the challenge?

The cost: Accidents and closures

1. Personnel safety
Toppled cranes
Ships blown off course
Containers knocked over

2. Impact types
Port closures and delays
Cargo volume reductions
Reputation loss

3. Economic loss
Shipping companies
Terminal operators
Carriers
Port authorities

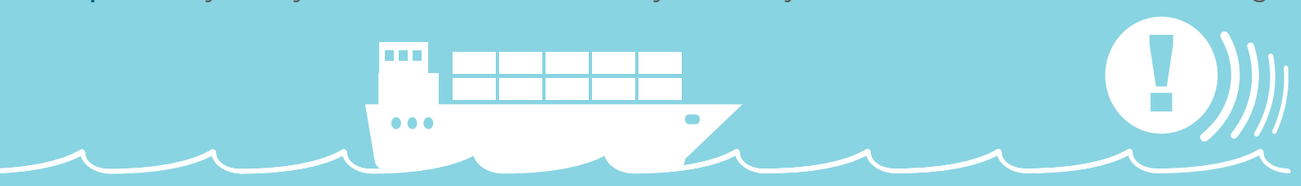
Why do these accidents still happen?

1. Lack of high-quality weather data, including:
   - Surrounding wind data
   - Local wind nowcasting (< 4 hours)
   - Consistent data source
   - Weather observation locations
   - Correctly used weather data
2. Pressure to maintain operations
3. Lack of training and preparation

The solution: High-quality weather data

The right level of weather data in ports can mean the difference between being prepared and being caught offguard.

Step 1: Always use your local maritime authority for safety-critical information such as warnings.



Step 2: Set up your local weather information system to get:
- Ground-truth measurements
- Nowcasts
- Forecasts

Get advanced weather measurement and insight tools

Beacon Station

Plug-and-play weather station for precise weather data in every corner of the port: instantly, securely and affordably.

- Measurements, data collection and visualization
- 15-minute set up; instant data
- Hyperlocal, real time
- Future-proof and secure

WINDCAP Ultrasonic Wind Sensor WMT700

Highest accuracy measurement in the harshest conditions and under heavy vibration in maritime offshore installations.

- Durable and maintenance-free
- WMO, CIMO and ICAO compliant
- Maritime field proven worldwide

WXT530 Weather Transmitter

Operational efficiency and uncompromising safety. The six most essential weather parameters in one professional grade instrument.

- Low deployment cost, flexible integration
- Easy installation and use
- IEC60945 and ISO60945 compliant

Marine Weather API

Actionable marine intelligence, consolidating global wave, water temperature, and tidal forecasts a week or more ahead of time.

- Organizes hourly forecast data across several parameters
- Based on HTTP queries, data via coordinates and JSON format
- Global 12-25km wave, 12km forecast resolution
- Tide data for ports within 50km of query

VAISALA

Weather emergencies are less of an emergency if you know exactly when and where they'll hit.

As the trusted leader for the maritime industry, we deliver weather measurement and communication solutions that drive safe, productive port and terminal operations.

vaisala.com