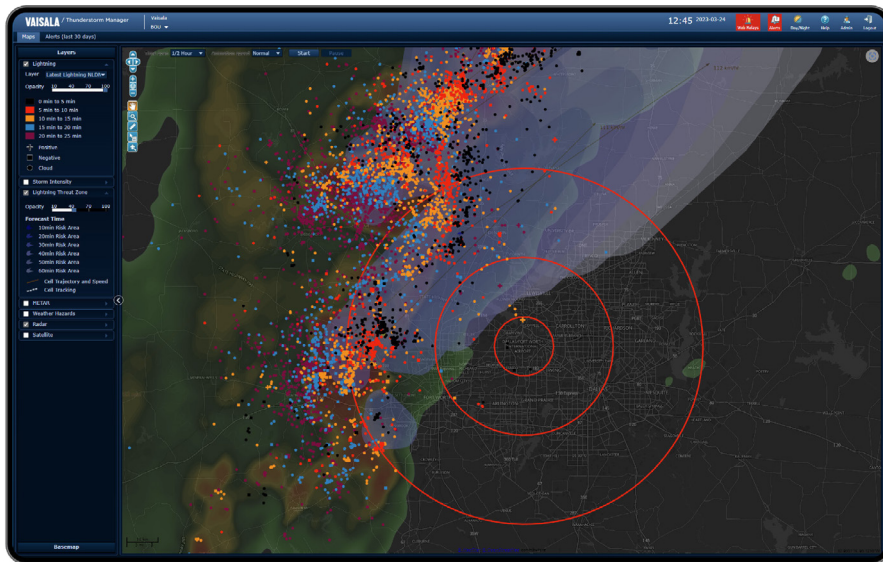


## Thunderstorm Manager for maritime operations

Complete thunderstorm awareness for improved safety and operational continuity



### Key benefits

#### Maximize safety, minimize downtime

Improve your situational awareness and make safety decisions with confidence with multichannel alerts, all-clear notifications, and API connectivity to your safety systems.

#### Real-time alerts for any location

Vaisala's high-precision lightning detection networks provide real-time coverage for every location — including oceans, offshore installations, and areas not covered by radar.

#### All-in-one solution with no capital costs

Monitor nearby storms and get real-time alerts for your sites on any connected device without the need to buy, install or maintain your own lightning detection equipment.

#### Driven by the world's best data

Depend on the only lightning detection solution built on GLD360 and NLDN, trusted by the U.S. Armed Forces, National Weather Service, Federal Aviation Administration, and many large commercial organizations.

#### Ease of use and accessibility

Get information and alerts with the intuitive web-based interface and reporting dashboard, making it quick and easy to access key operational insights.

#### Visible layers of storm insights

Quickly uncover weather information with map layers that show lightning, wind, satellite infrared, radar and more. The tropical cyclone layer shows the severity category and projected path of cyclones, hurricanes and typhoons.

Personnel safety and operational efficiency are critical priorities in difficult maritime operations. Vaisala Thunderstorm Manager, part of our Xweather family of subscription based products, helps operators protect personnel, improve operational resilience, and manage risks from lightning, tropical cyclones and severe storms.

When downtime costs thousands by the minute, a fast and accurate assessment of severe weather risks is critical for maximizing operational efficiency while ensuring worker safety.

Thunderstorm Manager delivers an all-in-one solution for real-time storm monitoring and automated lightning alerts for any location, offshore or onshore, worldwide. It draws data from Vaisala's GLD360 and NLDN networks — the most trusted lightning detection networks in the world — for uncompromising performance without the need to maintain a lightning detection system or a database of your own.

Cloud-based convenience and an intuitive web-based interface let you monitor threats and alerts from any computer or mobile device with an internet connection.

# Thunderstorm Manager at a glance

## Applications



Monitor storms and tropical cyclones to improve maritime safety, protect offshore assets and improve protocols for helipad operations, cargo transfers and crew exchanges.



Maximize offshore wind farm safety during installation, maintenance and operations with automated alerts and nowcasting of storm trajectories up to 60 minutes ahead.



Automatically warn port workers with flashing beacons, sirens and display screens to stop work and seek shelter. Send all-clear notifications when it is safe to resume work.

## Key features

**Create per-site alerts** to meet or exceed industry standards for safety and compliance. Thunderstorm Manager supports three levels of alerts (information, warning and alarm), custom trigger distances, custom alert areas, and a choice of triggering criteria.

**Send alerts and all-clear notifications** to multiple email addresses, SMS phone numbers and IoT warning systems. Replay recent storm activity with timeline animation and review the 30-day alert history.

**Lightning Threat Zone** shows you if storms are moving toward or away from your sites. It visualizes storm cell trajectories and risk areas in 10-minute intervals up to 60 minutes in advance.

**Versatile display options** let you see what matters most. Map layers include lightning (cloud-to-ground and in-cloud with a color-coded time stamp), satellite infrared, radar, temperature, wind, tropical cyclones, meteorological service alerts and more.

## No one captures more lightning

Vaisala detects 99.9% of thunderstorms worldwide, plus over two billion lightning events every year, with unmatched detection efficiency and location accuracy. Real-time delivery from strike to alert in 30 seconds or less with 99.99% availability gives you accurate, reliable lightning data wherever and whenever you need it.

## Why Vaisala?

Weather and environmental insights are the greatest catalysts for successful maritime operations. From sensors to systems and digital services, Vaisala technology empowers maritime leaders to confidently meet new challenges and harness new opportunities.

Vaisala is driven by passion, relentless curiosity, and the desire to create a better world, as reflected by our guiding principles for maritime:

### 1. Master the weather, master the sea

The weather affects maritime operations—whether onshore or offshore—more than any other factor. It also reveals the vast potential of the sea. We enable maritime leaders to harness that potential while navigating pressing challenges driven by climate change.

### 2. Oceans of insight

The maritime industry is a complex ecosystem, with valuable information to be found everywhere. Our integrated, end-to-end solutions turn that information into practical insights for new competitive advantages.

### 3. Currents of innovation

Maritime is evolving, and the currents of innovation are taking us to a more sustainable and weather-aware industry. Vaisala markets leading-edge solutions backed by our unmatched legacy of scientific leadership.

### 4. Champions for sustainability

We help provide a proactive, informed approach to navigating sustainability initiatives and saying ahead of regulatory pressures. Along the way, we protect and strengthen the ecosystems of which we are all part.

# VAISALA

[vaisala.com/maritime](https://vaisala.com/maritime)



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