Thunderstorm Manager

Complete thunderstorm awareness for improved safety and operational continuity in maritime operations

Personnel safety and operational efficiency are critical priorities in difficult maritime operations. Vaisala Thunderstorm Manager allows users to track approaching storms, make confident and informed decisions, and minimize costly operational downtime.

In maritime operations, downtime can cost thousands of dollars per minute. That's why quick, accurate thunderstorm assessment and automated alerts can create significant impacts. Vaisala Thunderstorm Manager allows users to track and proactively adjust for onshore and offshore storms — improving safety, protecting valuable assets, and keeping operations running.

Because it draws data from Vaisala's GLD360 and NLDN networks — the most trusted lightning detection networks in the world — users receive uncompromising performance and avoid having to maintain a lightning detection system or a database of their own. The result is outstanding value across a range of maritime applications, from offshore wind energy development and operation to port management, shipping, and helideck operations.

Key benefits

Maximum safety and operational continuity

Users across many industries can rely on immediate, actionable data to assess threats before they arrive, adjust strategies, take preventive actions, and make "all clear" decisions to keep operations going.

Full awareness for everyone who needs it

Users can access the application from any device, and automated alerts can be sent by email and SMS to multiple email addresses, devices, or phone numbers. Alerts can even trigger outdoor warning lights and sirens.

Driven by the world's best data

Thunderstorm Manager is built on GLD360 and NLDN, which are trusted for critical operations by the U.S. Armed Forces, National Weather Service, Federal Aviation Administration, and many large commercial organizations.

Ease of use and accessibility

Thunderstorm Manager presents information and alerts using an intuitive web-based interface and reporting dashboard, making it simple and useful for almost any user, including non-specialists, to access key operational insights.

Thunderstorm Manager at a glance

Applications

- Offshore substation/platform operations, equipment, or personnel transfer
- Wind farm installation, maintenance, and Wind Turbine Installation Vessel (WTIV) transport operations
- Helipad operations and transportation safety
- Lifting operations, crew exchanges, cargo transfer
- Post-event operations, such as assessing downtime to comply with regulatory and legal requirements or to satisfy an audit
- Operational analysis using alert history going back 30 days
- Port or near-shore industrial operations, safety protocols, and planning

Key features

Global, all-terrain coverage of any location on Earth, including oceans, offshore, mountain peaks, and other geographic locations not covered by radar or other meteorological instruments

Multiple alert setting options including: Additional alert sites, levels of alerts (Information, Warning, and Alarm; depending on the distance to the site), optional custom alert-area shape, choice of alert-triggering criteria, up to a 30-day alert history, and all-clear alert notifications

Lightning Threat Zone for actionable awareness of storm trajectory, storm cell velocity, speed, direction, and forecast activity up to 60 minutes' advance notice

Flexibility and integration with an API available for feeding lightning and forecast data into existing weather operations software

Dependable, fast delivery with exceptional service availability and real-time data available in approximately 30-seconds or less

Why Vaisala?

The industry standard in global lightning data

Vaisala delivers the most accurate real-time and historical lightning data in the world and is trusted by U.S. Defense Forces, the National Weather Service, the Federal Aviation Administration, and commercial safety operations across the planet. Between 2016 and the end of 2020, more than 10 billion lightning events were captured by the lightning detection networks Vaisala maintains.

Support you can count on

Look to Vaisala for dependable support, project capabilities, and training so you can get the most from your system. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

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vaisala.com/maritime

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