

Helideck Monitoring System with integrated real-time lightning data services

Master the weather, master the sea for safe and efficient offshore helicopter operations



Key benefits

Stay ahead of the weather with the world's most accurate real-time global lightning data

With instant access, track 100% of thunderstorms plus lightning location accuracy of 1 km, anywhere in the world including oceans.

Gain oceans of actionable insight with full situational awareness

Make informed decisions to minimize operational downtime, improve route planning, and reduce the cost and impact of weather disruptions. See the trajectory and intensity of nearby thunderstorms for the next 60 minutes.

Focus on your core business with confidence

Safeguard your operations with real-time lightning data with better than 99.99% availability, all without having to purchase, install, or maintain your own single-point lightning detection sensors.

Get top quality lightning data in any location with ease

It works wherever you are, thanks to minimal bandwidth and compatibility with all common satellite internet communication solutions used at sea. Benefit from Vaisala's expertise and ongoing investments in operating and maintaining the world's best global lightning network.

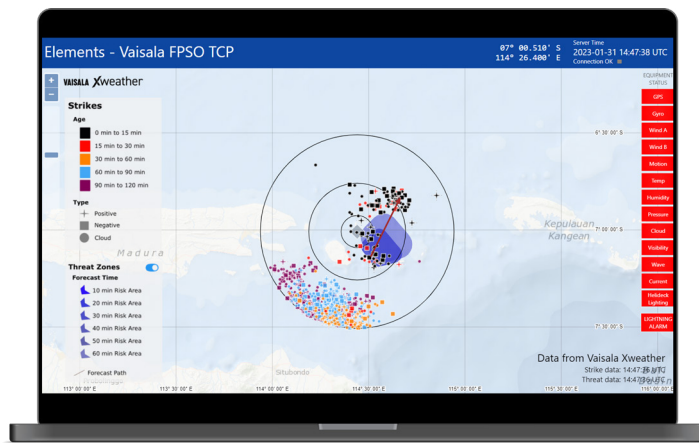
Offshore helicopters operate in challenging environments where exposure to freezing conditions, reduced visibility, or thunderstorms with high winds and lightning can be dangerous. Thunderstorm tracking can give decision makers vital information ahead of time to keep operations running safely and efficiently.

Built for the demanding offshore environment, Vaisala's Helideck Monitoring System (HMS) integrates the world's most accurate lightning data from the GLD360 global lightning detection network, owned and operated by Vaisala. This gives pilots and helideck operators precise, real-time situational awareness of thunderstorms and lightning risks for efficient route planning without compromising safety.

Vaisala Global Lightning Dataset GLD360, part of our Xweather suite of weather and environmental data services, is now fully integrated with our HMS to bring you total situational awareness of the weather. Get instant mobile or desktop access to thunderstorm and lightning data — in real time and every corner of the sea, beyond the range of radars and independent weather networks. Global coverage identifies 100% of thunderstorms and captures lightning location data with 1 km median accuracy.

Key features

- **The U.S. Navy, U.S. Air Force, National Weather Service,** Federal Aviation Administration, and many large power utilities and commercial organizations count on Vaisala-owned and managed lightning detection networks
- **GLD360 is the best global lightning data network** with the most powerful detection efficiency and location accuracy
- **Detects on average more than 2 billion lightning events every year,** which is 5-10 times more than any other global lightning network
- **Backed by 40 years of experience** operating lightning detection networks and providing lightning data services
- **80% of meteorological organizations worldwide** who depend on lightning data to improve safety during severe storms use Vaisala lightning detection network data
- **Over 1,000 scientific references** have been published on Vaisala lightning detection technology



Helideck Monitoring Software GLD360 features

- Vaisala Lightning Threat Zone nowcasting enables tracking of nearby thunderstorms for the next 60 minutes
- Strikes & Threat zones data query and visualization is synchronized with GPS coordinates (ship GPS data)
- 3 alarm zones with configurable distances
- Configurable data query interval
- Nearest strike (distance) and alarm zone information with Modbus TCP communication

Optional features

- Sends data to Vaisala Automatic Weather Station for additional features such as dry contact alarm control and NMEA output to third-party systems
- Uses fixed coordinates in case of fixed helideck and no GPS data available
- Automatically adds presence of lightning information to CAP 437 pre-flight weather report

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 cutting-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 staying ahead of regulatory pressures. Along the way, we protect and strengthen the ecosystems of which we are all part.

VAISALA

vaisala.com/helideckmonitoring



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