

VAISALA

When Offshore, You Want to be Sure

Critical Offshore Platform
Weather Information



Know the Weather to the Last Detail

Offshore maritime operations are demanding even in good conditions – but as professionals know, adverse weather is the norm and good climate a rare occurrence. Reliable flight and maritime services are crucial for both efficiency and safety.



Full Spectrum of Weather Information

Offshore wind farm and O&G operations on platforms, WTIVs (wind turbine installation vessel), SOVs (service operation vessel), CSVs (construction support vessel), FPSOs (floating production storage and offloading vessel), FSRUs (floating storage regasification unit), drillships, and other supply vessels are all highly weather critical. In addition to helicopter traffic control, also offshore loading, subsea operations, supply vessel loading/unloading and crane operations require accurate weather and sea state information

– 24/7. We can deliver it all in one reliable package with life-cycle support and easy upgrades, and the ability to handle projects of any size.

Parameters for Performance

Vaisala offers to offshore wind farm build-up and maintenance and the offshore oil and gas industry specialized meteorological, hydrological and oceanographic monitoring systems, instruments and engineering services. Our solutions and services are used in environmental monitoring systems, helideck monitoring systems, and marine weather reporting.

The unique technologies we offer are the result of our own R&D.

Practically every meteorological agency in the world uses Vaisala sensors and systems.

Over 85 years of scientific innovation and measurement leadership has taught us a thing or two about measuring weather. Experience has shown that cutting corners in capital costs for aviation and maritime support weather systems will result in major operating costs and loss of overall efficiency. Or most dramatically, serious injuries. Quality is the most economical and profitable choice.

Experience with Perspective



Solutions and instruments for environmental measurement:

- Automatic weather stations
- Helideck monitoring systems (HMS)
- Environmental monitoring systems (EMS)
- Wind speed and direction sensors
- Air pressure sensors
- Relative humidity, dew point, and air temperature sensors
- Visibility sensors
- Precipitation
- Cloud amount and height sensors
- Present weather sensors
- Lightning detection data
- Oceanographic and hydrological sensors
- Wind lidars
- Marine weather forecasts

The Measure of Partnership

Vaisala takes the long-term view. As a result, we enjoy decades long partnerships with many of our customers and are able to help them easily develop, upgrade and optimize operations. Most providers of offshore weather data usually work with 3rd party instruments – we know the weather and the instruments we manufacture to the last detail.

Services to Suit Your Needs

Vaisala is able to provide full solutions with the type and level of service you require. From site surveys determining the location of equipment to implementation and commissioning at offshore platforms, every step is handled with experience.

The weather affects maritime operations more than any other factor. We'll help you master it.

Weather and environmental insights are the greatest catalysts for successful maritime operations— onshore and offshore.

From sensors to systems and digital services, Vaisala provides actionable insights that empower stakeholders to confidently meet new challenges and harness new opportunities.

Our globally trusted maritime weather solutions enable remarkable efficiency gains, digital transformation, the protection of people and investments while supporting clean and responsible operations.

Why Vaisala?

We are scientists and explorers driven by passion, relentless curiosity, and the desire to create a better world. Our 85+ years of innovation and global impact are reflected in our guiding principles for maritime:



Master the weather, master the sea

Vaisala enables stakeholders to harness incredible new possibilities while facing increased severe weather risks driven by climate change. We do this by providing the most advanced weather and environmental insights available anywhere. Guided by our weather measurement expertise, we're advancing maritime operations and empowering today's leaders to master the sea like never before.



Currents of innovation

Maritime is evolving, and the currents of innovation are taking us to a more sustainable and weather-aware industry. Vaisala is the world's most trusted partner for helping maritime leaders navigate this evolution. Fueled by our proven scientific leadership and innovative spirit, we have led the way in providing unparalleled weather and environmental solutions across a multitude of industries for generations. We give maritime stakeholders the most comprehensive weather intelligence available so they can innovate across their entire ecosystem to protect of people, resources, and infrastructures.



Oceans of insight

The maritime industry is a complex ecosystem, with valuable information to be found everywhere. In the atmosphere. In the water. In the movements and topographies of the sea. In complex offshore and onshore hubs of commerce. Vaisala's integrated, end-to-end weather solutions are uniquely capable of transforming oceans of information into concrete, practical insights to enable better decision making. These insights turn uncertainty into confidence, risk into readiness, and potential into power. Our preeminent weather technologies give maritime stakeholders a new competitive advantage: the ability to derive previously unattainable insights from everything around them.



Champions for sustainability

Vaisala partners with maritime stakeholders to support a proactive, informed approach to navigating sustainability initiatives. Our unsurpassed onshore and offshore weather intelligence helps the maritime industry achieve cleaner and more responsible operations, stay ahead of regulatory pressures, and confidently manage risks related to extreme weather. This partnership also strengthens the health of Earth's oceanic ecosystems and the communities of which we are all part.

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