

IRIS Focus for Meteorology and Hydrology

Product Spotlight

Providing trusted weather observations for a sustainable future

Extreme weather is growing in frequency and intensity with climate change, making it more challenging and more crucial for meteorologists and forecasters to understand, observe, and forecast weather hazards to protect people and infrastructure.

Get deeper insights, faster with Vaisala IRIS Focus: The scalable, modern remote sensing software for superior extreme weather forecasting such as storms, heavy rainfall and more.



Key benefits

Understand, observe, and forecast weather hazards to protect people and infrastructure.

Get complete weather awareness from a single Vaisala weather radar or a network of them in one spot with detailed, high-resolution visualizations.

Generate timely weather alerts and see near-future conditions with nowcasting and real-time weather analysis tools.

Save time and make accurate decisions faster with easy-to-configure events and alerts.

Rely on industry-standard cyber security to keep your data intact.

Get up and running fast with interactive tutorials, in-context help and tool tips.

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

With IRIS Focus, you gain a superior understanding of weather events – especially convective weather, heavy rainfall, fronts and storm structures – for more accurate forecasts and early warnings.

IRIS Focus is part of Vaisala's weather radar suite, combining innovative instruments and insights in a single interface. The software combines data from remote sensors including weather radar, wind lidar, lightning precision networks and other data sources like satellites to provide an interactive visualization of weather data.

Easy to use and share with uncompromising data security, the web-based interface includes storm tracking, nowcasting, and cross-section tools for a better understanding of storm movement and structure. Integrated decision support saves time with real-time monitoring, automated weather hazard detection, and customized alerts for a specified geographical area such as cities.

More of the insights you need to make effective decisions

- Storm structures and characterization
- Flood warnings and severe rainfall alerts
- Highly accurate precipitation estimation and classification
- Characterization of many types of weather hazards and weather conditions thanks to analysis and other tools
- Nowcasting feature indicates upcoming weather hazards and lightning storms up to 2 hours ahead
- Fully configurable weather events and alerts based on multiple criteria that can be applied for each remote sensor and notified to operational users through email, SMS and Alert API

