

# Vaisala AviCast<sup>®</sup>

/ AIRPORT DECISION SUPPORT SYSTEM



**VAISALA**

## AviCast

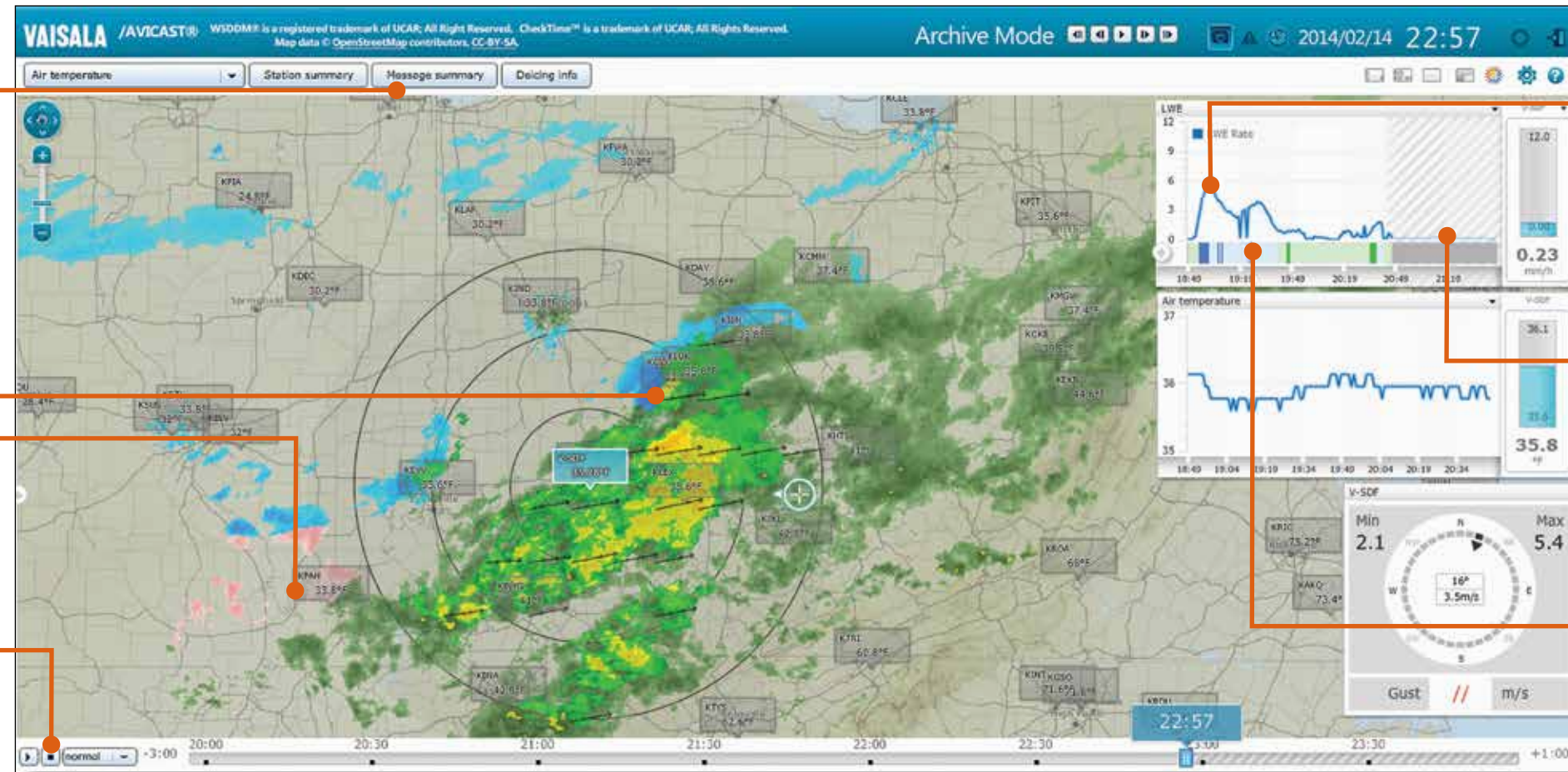
Are you an airport, airline, or maintenance organization who needs to improve operational efficiencies during adverse weather?  
Vaisala AviCast is a weather decision support system that can reduce your operational costs during all inclement weather.

**National Weather Service Messages**  
Stay informed of winter messages and storm alerts from the National Weather Service.

**Motion Vectors**  
Know how and when precipitation will impact your airport. AviCast uniquely incorporates storm vectors detailing the exact location and path of the storm. Motion Vectors show 30min tracks with 10min slash marks – prediction provides you with precision.

**METARS**  
Determine the surface weather impact using actual ground observations from the National database of airport METARS.

**Archive and Playback Capability**  
AviCast provides 3-hour archive radar images and a 1-hour radar prediction. Giving you a better understanding of storm movement.



**Liquid Water Equivalent (LWE)**  
Analysing the past 2 to 24 hours of LWE means you know exactly how much "water" has fallen on the runway or wing. Since the amount of water has a direct correlation to chemical effectiveness, LWE is a better value to use for decision making.

**Forecast**  
Accurately manage personnel and operations, by knowing the precise on-set of precipitation and the duration. AviCast provides a 1-hour precision forecast of Liquid Water Equivalent (LWE).

**Historical Precipitation Type**  
See what precipitation type has fallen at your airport over the past 2 to 24 hours to aid in managing the next few hours. Color codes for easy identification: Snow (Blue), Rain (Green), Freezing Rain/Drizzle (Lgt. Blue).

## Delivering Priceless Precision

Most aviation weather products provide national radar mosaics, which is a composite of all weather radars in the region. Vaisala's AviCast sets a new standard by offering single site radar displays, providing you a new level of precision. As depicted in the two views taken at the exact same time:



View 1 – Shows a large storm over Louisville, Kentucky (SDF) airport. Airport personnel are planning for the worst, personnel resources are high, costs of time and resources are also high.



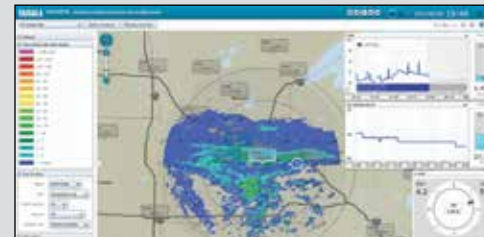
View 2 – When viewing the same storm through Vaisala's AviCast single site radar it depicts a more accurate view. Precise size and location of the storm north of SDF airport with no precipitation forecast to occur at the airport.

## Radar Features: Precipitation Type & Rate

AviCast also offers views of precipitation type and rate, providing specific storm details for enhanced operational decisions.



Type – Precipitation



Type – Rate

## Summer Solution

AviCast provides year round decision support allowing airport operations to track approaching thunderstorms and continue normal operations until lightning is detected within the warning areas.

Alert and all clear messages are sent to remote personnel via text message or email. On-screen warning rings turn red alerting airport operation teams a safe work environment has been compromised.

With accurate lightning information you can ensure your airport personnel are safe, while improving operational efficiencies during thunderstorms.







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[www.vaisala.com](http://www.vaisala.com)

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