

Cockpit Weather

Friends and Partners of Aviation Weather

Kevin Kronfeld

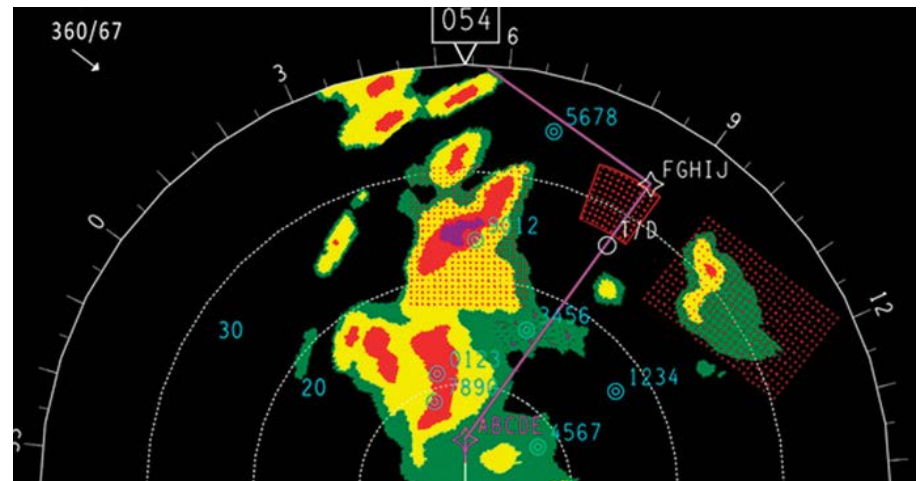
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**Rockwell
Collins**

Advancements

- Improved communications.
 - Higher bandwidth and high assurance two-way data sharing.

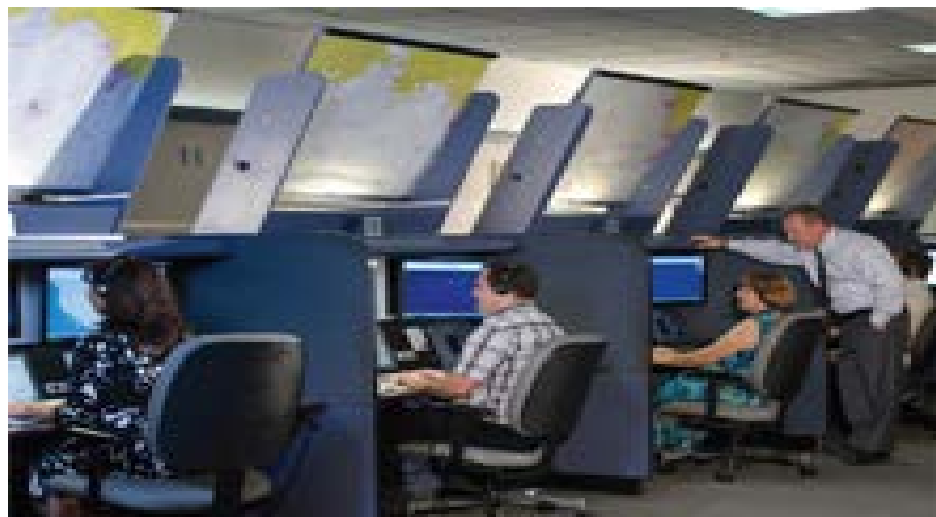
- Fully-Automatic Airborne Radars
 - MultiScan ThreatTrack™
Weather Radar



Advancements

- Datalink weather on Forward displays and Portable Electronic Devices.
 - Flight Management System
 - Aircraft Access to SWIM (AAtS)

- Integration of aircraft weather information into weather forecasts.
 - Improved Dispatch Support and Airline Operations



Areas for Improvement

- NextGen Weather availability.
- Global Weather products.
- Discrepancies between uplink weather products and weather sensors on the flight deck.
 - How to deal with conflicting information and uncertainty on flight deck?
- NextGen Weather & ATM decision support interfaced/integrated with Flight Management Systems.

Areas for Improvement

- Additional sensors on flight decks and on ground not being fully utilized for improved weather observations and forecasts.
- Weather Information Assurance
- Weather Information Display and Avoidance Training
 - Information overload.