Cockpit Weather
Friends and Partners of Aviation Weather

Kevin Kronfeld

21-22 July 2014
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.