

# **EASA Weather Information for Pilots Workshop**

## **Rockwell Collins MultiScan ThreatTrack™ Weather Radar Brief**

Ryan Fulton – Weather Program Manager, Meteorologist

Content provided by:

Bryk Lancaster – Manager, Commercial Systems Radar Programs

Roy Robertson – Advanced Radar Applications Engineering



# Rockwell Collins MultiScan™ Weather Radar



Sole Source Selection  
B747- 8 2006



Sole Source Selection Boeing  
Business Jet 2005

Sole Source Selection  
B787 2004



Air Transport World  
Technology Achievement  
Award 2010

Airline Avionics Institute  
Volare Award 2005



Aviation Week  
Product Breakthrough  
Award 2004

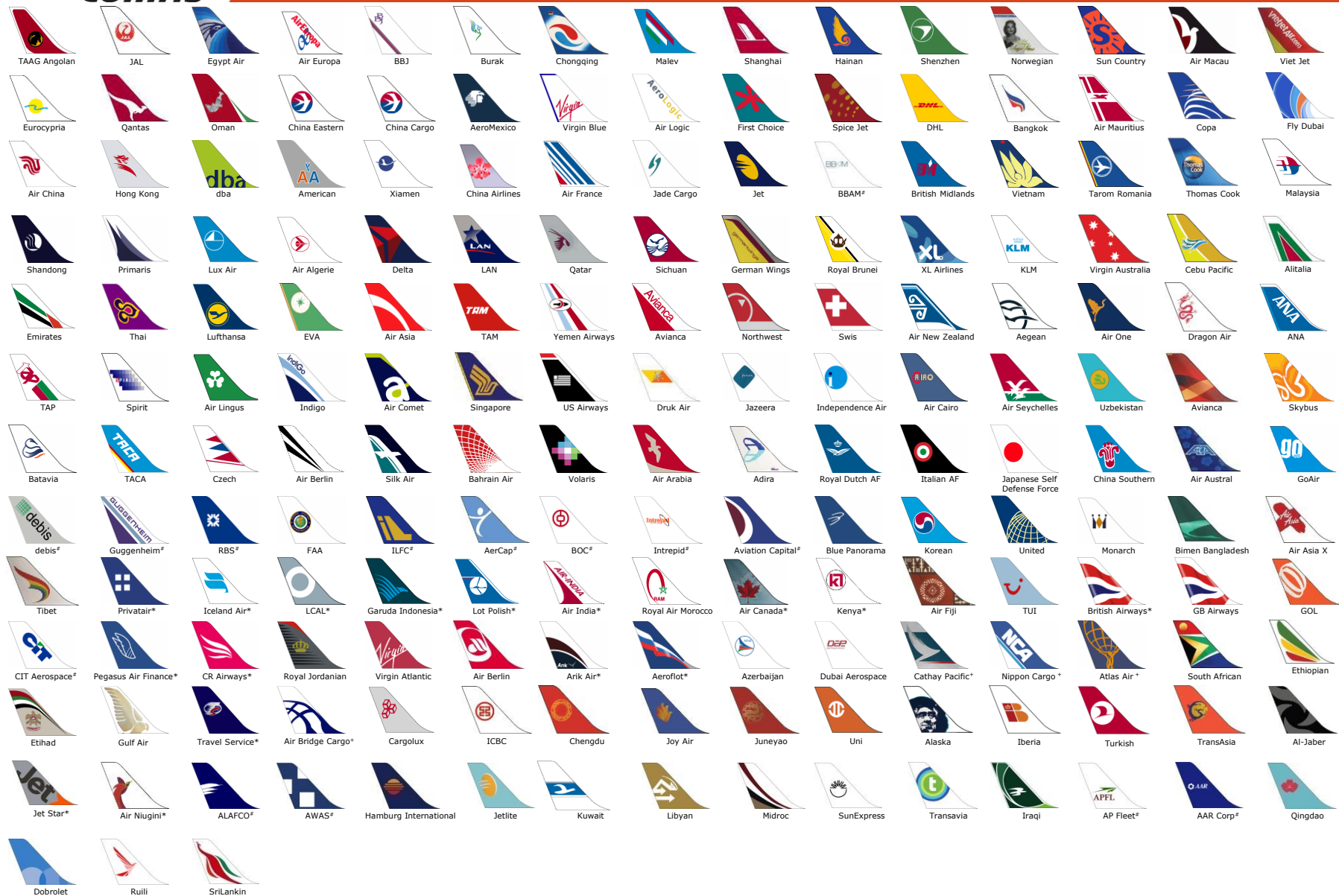
Sole Source Selection NASA  
E-Turb Program 2004



Certification A320  
Family 2005



Certification A330/A340  
Families 2005



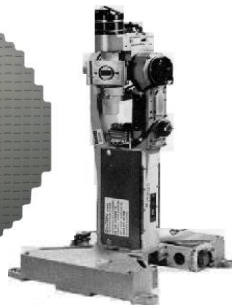
8000+ Aircraft Systems in Revenue Service, 180+ Customers, 2000+ Backlog Orders



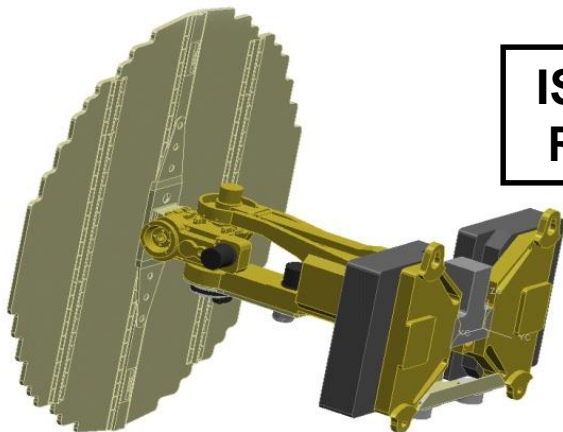
## Business and Regional Customers



# Rockwell Collins Radar Product Families



**WXR-2100 MultiScan ThreatTrack™  
Air Transport Aircraft**



**ISS-2100 MultiScan  
Radar Boeing 787**



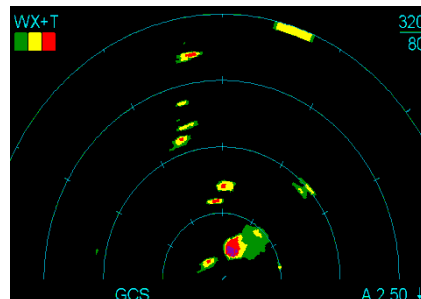
Note: Installation Architecture is Typical. Inertial data may be IRS or AHRS/GPS depending on installation. Data Concentration may be dual or single with dual channels



**RTA-4118, RTA-4218  
Business and Regional  
Weather Radar Systems  
(12", 14", 18" Antennas)**

## MultiScan Today

- **WXR-2100 MultiScan In Service Since 2002**
- **Extensive Customer Base**
  - 8000+ Systems in Revenue Service
  - 180+ Airline Customers
  - 2000+ Backlog Orders
- **Key Technology Base**
  - Digital Multiple Plane Memory
  - Live Ground Clutter Suppression
  - Adaptive Temp Based Gain
  - True Zero™ Auto Alignment
  - SmartScan™
  - OverFlight Protection™
  - Geographic Weather Correlation
  - Certified Turbulence
  - Predictive Windshear Detection
- **Based on 'Dark Cockpit' (Clean Screen) Philosophy**



- Fully Automatic Weather that affects the aircraft flight path from the nose of the aircraft to 320 NM
- Ground Clutter Free Display
- Attenuation Compensation and Alert
- Certified Turbulence to 40 NM
- OverFlight™ Protection
- Predictive Windshear



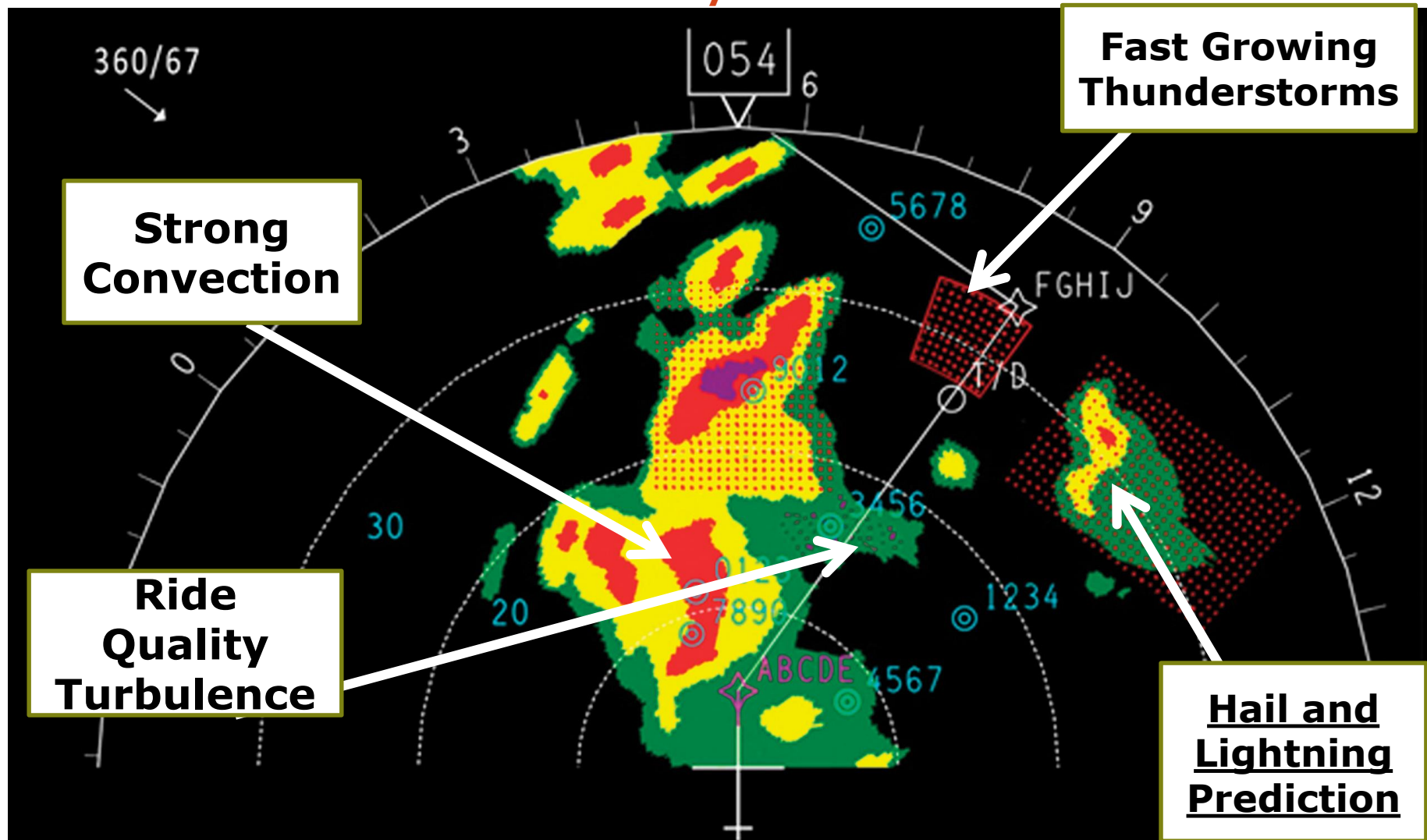
## A Complete Threat Picture on a Single Display



### Complete Threat Picture at a Glance



## MultiScan ThreatTrack™ Automatic Threat Assessment: Advanced Threat Detection and Analysis



**New Functions Bring Significant Operational Benefits**