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Aircraft -10051902 ~~YOU MUST~~  
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~~OWD BWI Radar Low Level Rain~~  
~~Showers VRB Use of Weather~~  
~~RADAR Before/During Takeoff in a~~

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Piper Meridian with Dick Rochfort

Flying the Weather: Picking up Ice  
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Requirements Made Easy

Navigating around Nasty Weather

A330-300 Cockpit ~~HOW IT~~



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Flight in a Piper PA46 Meridian  
Turboprop Aircraft

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w/Hazard v2.0 Display Features  
FAA Pilot's Handbook of  
Aeronautical Knowledge Chapter  
13 Aviation Weather Services  
Radio Navigation - Radar  
Principles ~~Airborne Weather~~  
~~Radar The Aircraft~~  
Most airborne weather radars

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Only have a useful range of about 80 miles. The useful range of NEXRAD ranges from 143 and 286 miles depending on the surveillance mode. Figure 6 shows a cockpit radar display depicting four strong cells approximately 25–35 miles ahead

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### of the aircraft. Electronics

### Location

### ~~Airborne Weather Radar~~

### ~~Limitations~~

It can also detect other aircraft in flight. Fact: Weather radar detects moisture. It detects wet hail, rain and wet snow, but not

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dry hail or dry snow. The larger the water droplets, the stronger the return signal. It cannot detect other aircraft in flight. Fiction: The weather radar's energy is reflected by the weather it detects. Fact: Saying that the RF energy is reflected is an easy way

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The Aircraft Electronics  
Oclation  
to describe how the weather  
radar system displays a returned  
signal, but it is an inaccurate ...

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~~Separating Fact from Fiction ...~~

Airborne Weather Surveillance

Radars for Increasing Air

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Transport ... This is the

consequence of the fact that each aircraft is equipped with weather radar working at frequency band  $9.3 \div 9.5$ GHz. From the security viewpoint, these ...

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~~Aircraft Weather Radar Frequency~~

...

PicoSAR Compact, lightweight,  
airborne ground surveillance  
Active Electronically Scanned  
Array radar provides superior all-  
weather SAR/GMTI capability for

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The Aircraft Electronics Association  
manned and unmanned platforms. Raven ES-05 wide field of regard radar optimised for multi-role/swing role operations developed for the Gripen E fighter.

~~Airborne Radars - Leonardo~~

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~~The Aircraft Defence and Security~~  
weather radar / for aircraft / on-board Meteorological radar, based on data collected from satellites and terrain's radars, is the last frontier of the aeronautic safer flight instruments. altimeter radar / for aircraft / on-board RA-01GA

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The Radar Altimeter RA-01GA generates information from actual altitude above ground level from 0 to 1500'.

~~Aircraft radar All the  
aeronautical manufacturers  
Videos~~

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On-board weather radar systems can be found in aircraft of all sizes. They function similar to ATC primary radar except the radio waves bounce off of precipitation instead of aircraft. Dense precipitation creates a stronger return than light

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precipitation. The on-board weather radar receiver is set up to depict heavy returns as red, medium return as yellow and light returns as green on a display in the flight deck.

~~Aircraft Weather Radar | Aircraft~~

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### Systems

The airborne weather radar system is an essential tool for pilots to assess the intensity of convective weather ahead of the aircraft. In this respect, it enables the strategic and tactical planning of a safe flight trajectory.

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### The Aircraft Electronics

~~Optimum use of weather radar—  
SmartCockpit~~

Advanced display of storms and lightning can assist with routing and passenger comfort.

Honeywell offers a range of weather radar products for any



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aircraft. ~~The Aircraft Electronics~~

### ~~Location~~

~~Weather Radar Honeywell~~

~~Aerospace~~

The Northrop Grumman E-2 Hawkeye is an American all-weather, carrier-capable tactical airborne early warning (AEW)

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aircraft. This twin-turboprop aircraft was designed and developed during the late 1950s and early 1960s by the Grumman Aircraft Company for the United States Navy as a replacement for the earlier, piston-engined E-1 Tracer, which was rapidly

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becoming obsolete.

### Ociation

~~Northrop Grumman E-2 Hawkeye~~

~~—Wikipedia~~

Airborne radar revolutionized air and naval warfare by permitting the detection of ships and aircraft beyond visual range. Airborne

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radar played a crucial role in the outcome of the Second World War. It was one of the most important factors in the winning of the Battle of the Atlantic and was of great importance to the Pacific island-hopping campaigns.

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~~The Aircraft Electronics Association  
Reflections on the Early History of  
Airborne Radar | US ...~~

Unlike ground weather radar, which is set at a fixed angle, airborne weather radar is being utilized from the nose or wing of an aircraft. Not only will the aircraft be moving up, down, left,

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and right, but it will be rolling as well.

~~Weather radar - Wikipedia~~

□ Airborne Weather Radar

Limitation s □ AC 91-70( ),

Oceanic and Remote Continental

Airspace Opera - ... Weather

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Radar: Storm Avoidance □ AC  
00-24 □ National Weather Service,  
Houston □ Aviation Weather  
Center (NOAA) □ Surface Weather  
Observation Stations ASOS/AWOS  
□ FAA AVCamsPlus (Does not  
work on I.E)

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~~New York OCA West Gulf of  
Mexico Caribbean~~

Cruise: Weather radars usually have a beam width of around 2.5 deg. Setting the tilt control to around 1deg down (relative to the external horizon) will allow you to observe weather ahead and



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slightly below the aircraft. If your radar allows multiple elevation scans, then it is prudent to select a pattern that spends some time looking lower than the aircraft to give yourself the best chance of identifying developing weather systems, thus allowing you to

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take early avoiding action.

### Location

~~Weather Radar: Storm Avoidance~~

~~—SKYbrary Aviation Safety~~

For purposes of airborne weather radar, a narrow beam is the most desirable because it concentrates more energy on the target, which

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means more energy will come back in the echo. Flat Plate antennas are better than dish antennas and larger antennas are better than smaller antennas for concentrating the beam.

~~AIRBORNE WEATHER RADAR~~

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~~Aircraft Electronics Association~~

APIM 19-008A calls for the development of ARINC Project Paper 748: Airborne Weather Radar System and Aircraft Installation Standards. The goal is to support new aircraft designs with supplier-level system

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Interchangeability. Electronics

Occupation

~~Airborne Weather Radar Working  
Group | SAE ITC~~

US Dept of Commerce National  
Oceanic and Atmospheric  
Administration National Weather  
Service National Centers for

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The Aircraft Electronics Association  
Environmental Prediction Aviation  
Weather Center 7220 NW 101st  
Terrace Kansas City, MO  
64153-2371

~~AWC Radar Aviation Weather~~  
This AC covers aircraft radar  
systems with weather detection

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and ground mapping, forward-looking windshear detection, forward looking turbulence detection, and atmospheric threat awareness capability. The guidance is applicable to Title 14 of the Code of Federal Regulations, parts 23, 25, 27, and

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Association

~~AC 20-182A - Airworthiness  
Approval for Aircraft Weather ...  
For Training Purposes Only  
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Interpretation Document is not  
under revision control. All~~



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Information is subject to the restrictions stated on the Proprietary Notice. Airborne-Weather-Radar Interpretation Ian Gilbert This familiarisation is targeted for aircraft equipped with Honeywell weather radar.

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