

# Airborne Weather Radar The Aircraft Electronics Association

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## **AIRBORNE WEATHER RADAR - Aircraft Electronics Association**

### **Airborne Weather Radar Limitations**

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Airborne weather radar is a type of radar used to provide an indication to pilots of the intensity of convective weather. Modern weather radars are mostly doppler radars, capable of detecting the motion of rain droplets in addition to intensity of the precipitation. Typically, the radar antenna is located in the nose of the aircraft.

### **Weather Radar - SKYbrary Aviation Safety**

Most airborne weather radars 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 of the aircraft.

### **Airborne Weather Radar Limitations**

Airborne Weather Radar. The radar transmits a pulse of 6 kilo (6,000) watts, yet receives a very tiny signal of -110dbm, or .01 Nano (.000,000,000,000,01) watts. The receiver will be blanked during transmit, and for a very short period of time after transmit, to prevent the sensitive receiver crystals from being damaged.

### **Airborne Weather Radar - Aircraft Electronics Association**

Radio waves used in weather radar systems are in the SHF range such as 5.44 GHz or 9.375 GHz. They are transmitted forward of the aircraft from a directional antenna usually located behind a non-metallic nose cone. Pulses of approximately 1 micro-second in length are transmitted.

### **Aircraft Weather Radar | Aircraft Systems**

airborne weather radar is typically X- band, pulse modulated and operating in the 8-12 Ghz range.

### **AIRBORNE WEATHER RADAR - Aircraft Electronics Association**

The effective use of airborne weather radar is essential to anyone flying radar-equipped aircraft. Numerous aircraft accidents have occurred due to flight crews' inadequate knowledge of thunderstorms and the use of radar.

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Erik's early passion of airborne weather radar was inspired by the work and research of industry legends such as Archie Trammell, J.T. Lee, Jim Cook, Bob Buck and Dr. Fred Bates.

## **Understanding Your Airborne Weather Radar System**

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, and right, but it will be rolling as well.

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## **Airborne Weather Radar - Separating Fact from Fiction ...**

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