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Another limitation of airborne weather radars is called shadowing or attenuation. A phenomenon which occurs when the weather is simply unable to make the two way size, shape and intensity of that weather as displayed to the pilot may not be accurate. The more intense the precipitation, the less distance the radar can see into and through a storm.

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Weather radar - Wikipedia. Weather radar, also called weather surveillance radar (WSR) and Doppler weather radar, is a ... Knowing their limitations and using them with the local NEXRAD can supplement the data available to a meteorologist. ... Unlike ground weather radar, which is set at a fixed angle, airborne weather radar is being utilized from ... en.wikipedia.org

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Airborne Weather Radar Limitations One of the most significant limitations of aircraft radar is that it cannot distinguish between stratus and convective rain—that is solely a pilot responsibility. The radar simply has thresholds, above which certain colors are assigned. Although both environments contain threats, the threats are different.

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aircraft radar is that it cannot distinguish between stratus and convective rain—that is solely a pilot responsibility. The radar simply has thresholds, above which certain colors are assigned. Although both environments contain threats, the threats are different. Airborne Weather Radar Limitations

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Weather radar limitations Weather radar detection capability One of the weather radar limitations is that it indicates only the presence of liquid water. The consequence is that a thunderstorm does not have the same reflectivity over its altitude range because the quantity of liquid water in the atmosphere decreases with the altitude (fig.4). Yet, the convective

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Weather radar has the limitation of not being able to detect fog. This creates a gap in weather forecasting where an area that is likely to receive fog is not properly profiled. 2. Cannot detect wind independently: A weather radar is not known to detect wind independently unless with the use of additional remote sensing.

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