

Friends and Partners in Aviation Weather October 24, 2019







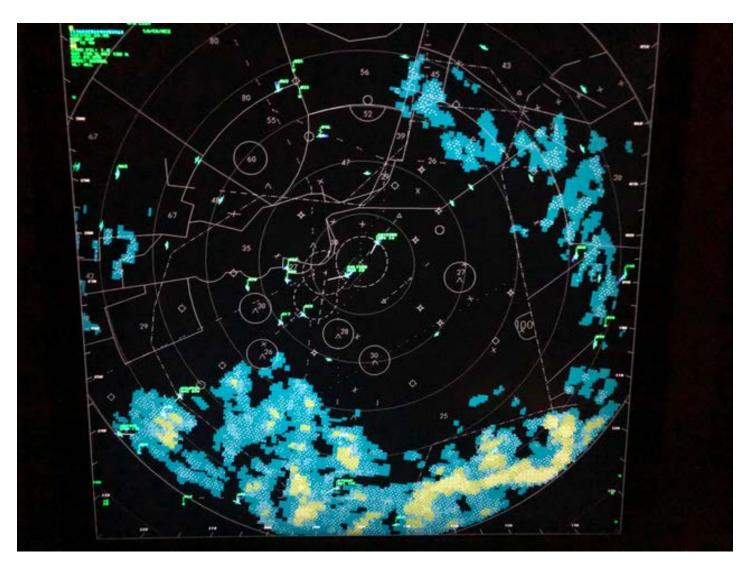
Terminal Weather

- Airport Surveillance Radar (ASR) •
- 6 Levels of weather

ARTCC Weather

- NEXRAD radar
 - 3 Levels (Moderate, Heavy Extreme)

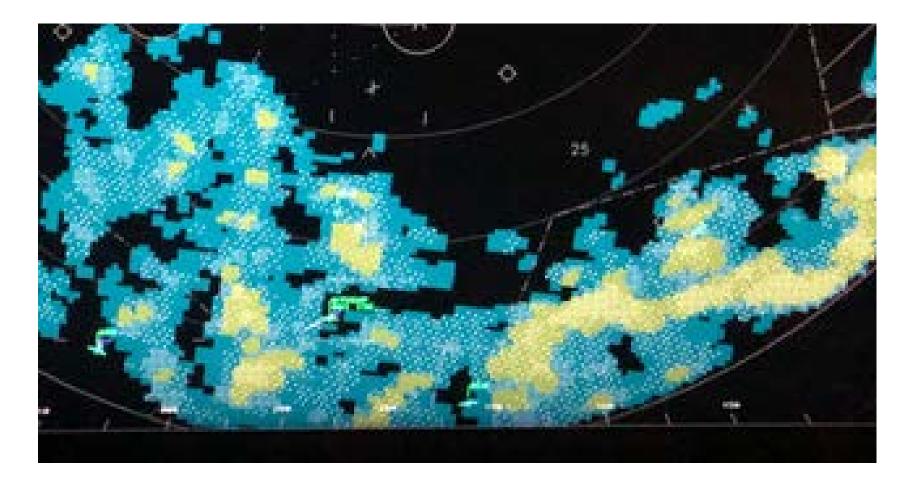
Terminal Weather (STARS)



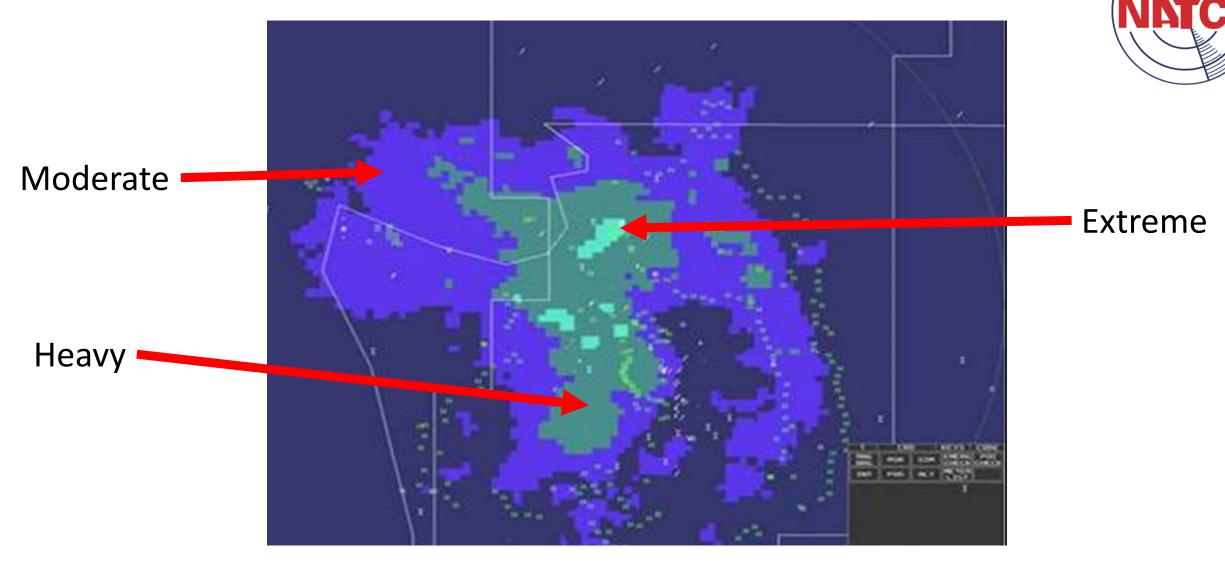


Terminal Weather (STARS)





ARTCC Weather (ERAM)



Air Traffic Radar Limitations



- Center and Terminal controllers are looking at different weather
- ASR radars primary purpose is for surveillance of air traffic
- Depending on the facility, there are several different ASR radars. Some ASR radars do a better job of depicting weather than others.
- Rapidly developing thunderstorms may not be depicted.
- Radar on the glass does not depict movement, rather only shows the current radar image.
- Overhang is normally not shown but pilots often request to deviate around it.

Controller Complexities



- Tight arrival and departure corridors around terminal facilities.
- Time required to recall military airspace.
- Pilots can't see the complexities of how air traffic controllers are sequencing/managing their airspace.
- Pilots receive a reroute to another corner post and become low on fuel.
- Compression when dealing with differing winds

