

# Friends and Partners in Aviation Weather October 24, 2019







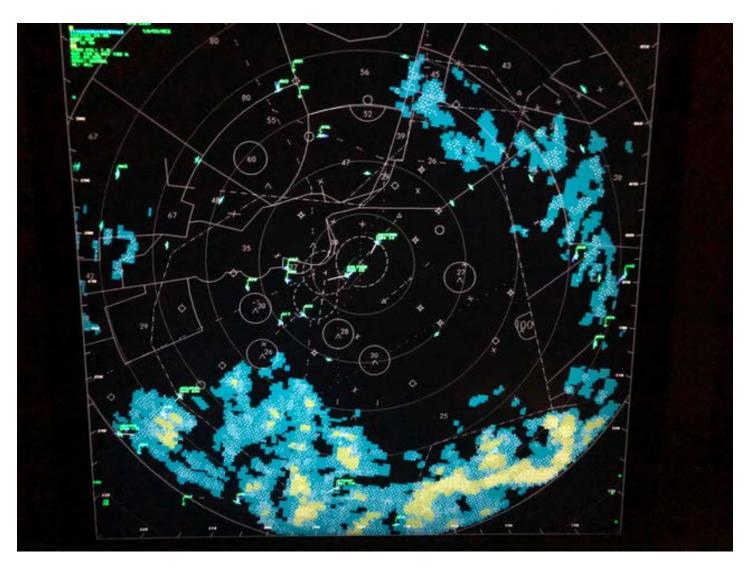
#### **Terminal Weather**

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

## **ARTCC Weather**

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

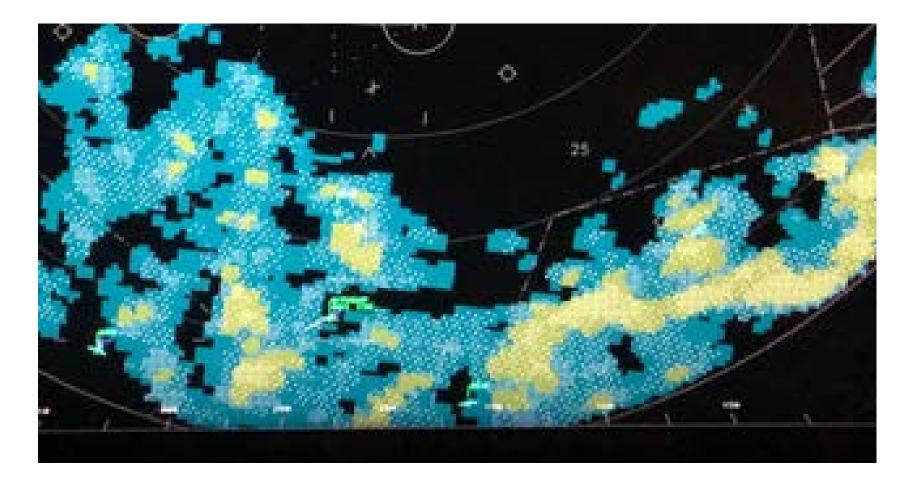
### **Terminal Weather (STARS)**



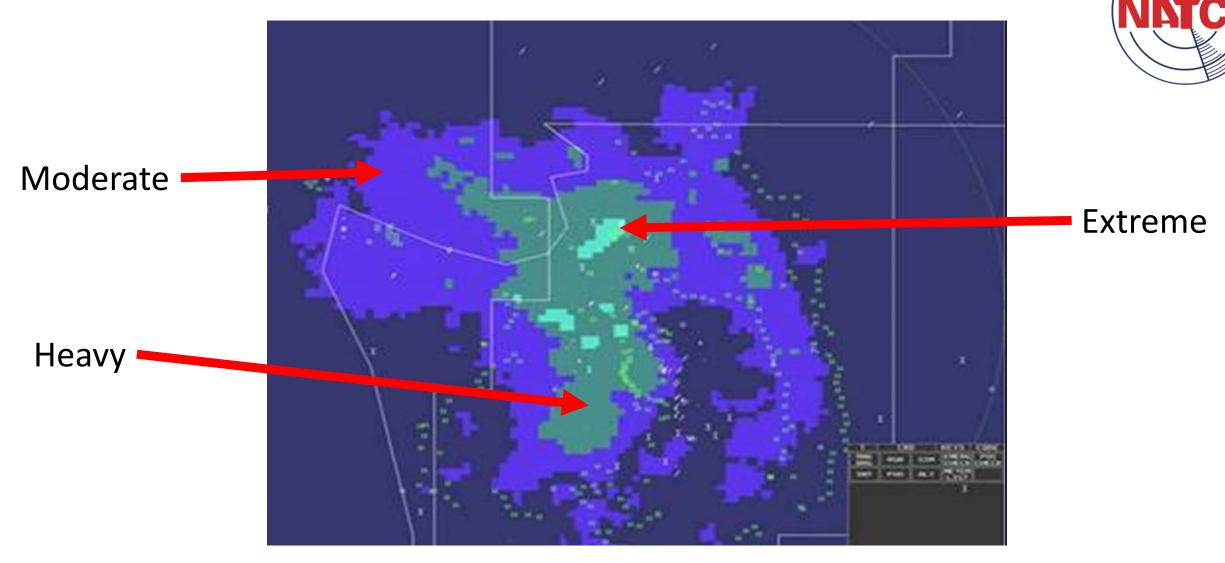


### **Terminal Weather (STARS)**





### **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

