



# NOAA 2011: The Road Ahead

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# NOAA & the Aerospace Community



Lockheed WP-3D Orion



Gulfstream IV-SP



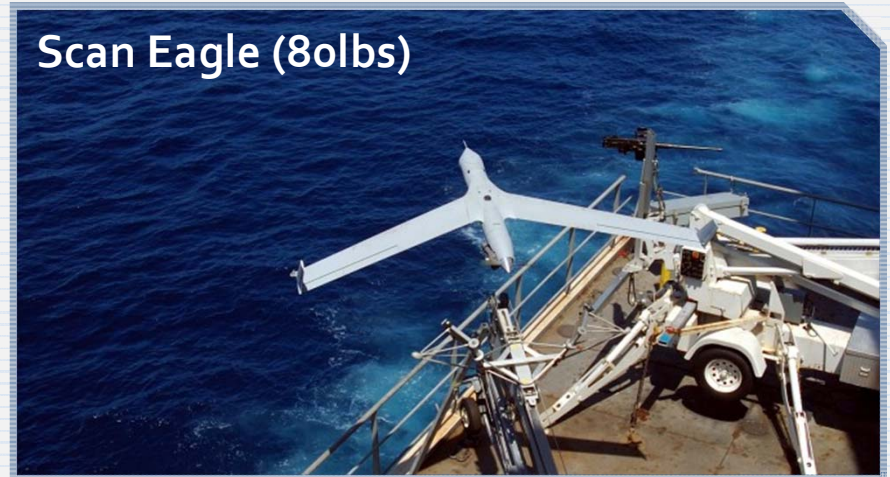
# NOAA & the Aerospace Community



Quadcopter



Scan Eagle (80lbs)



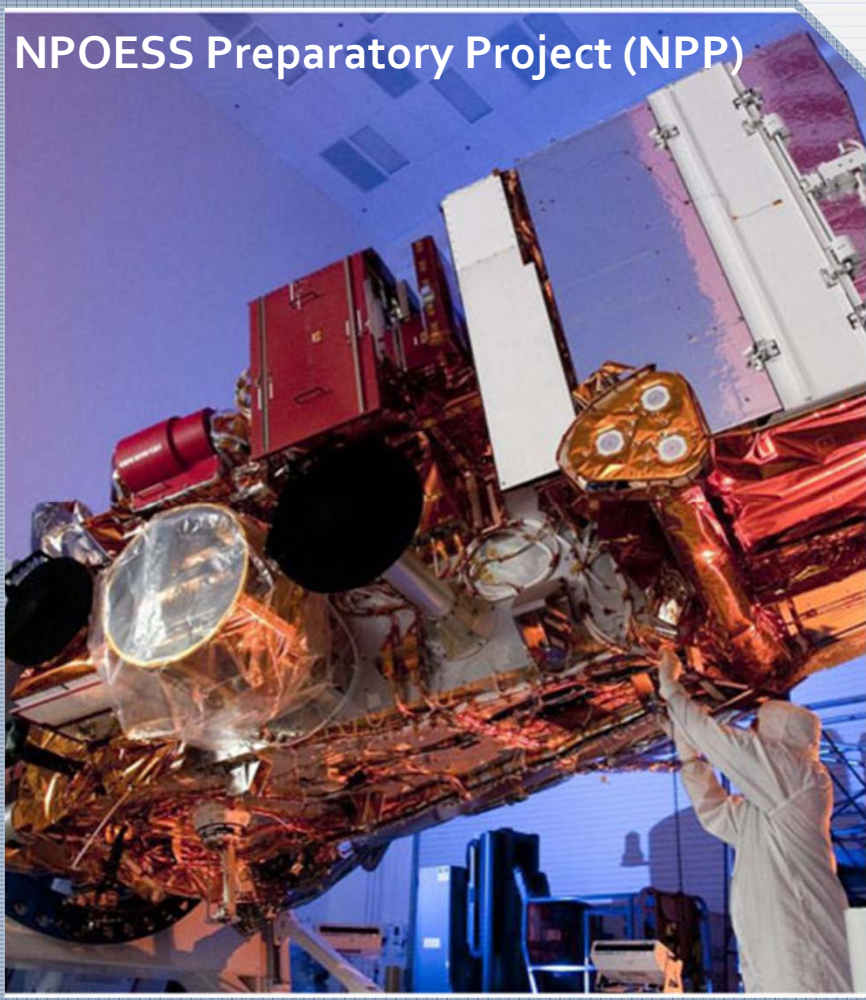
Sierra (350lbs)



# NOAA & the Aerospace Community



NPOESS Preparatory Project (NPP)



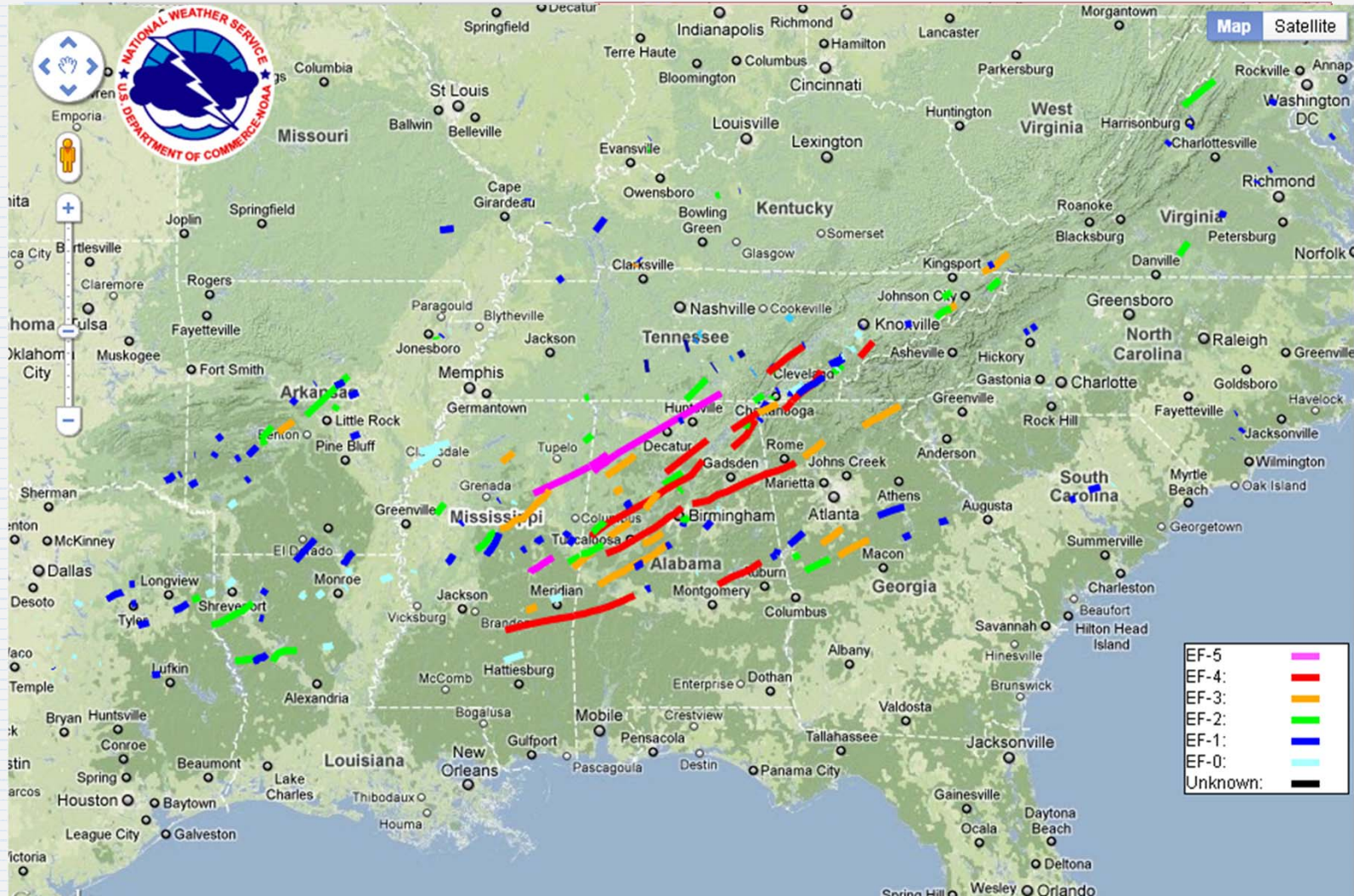
GOES-P



NOAA N'



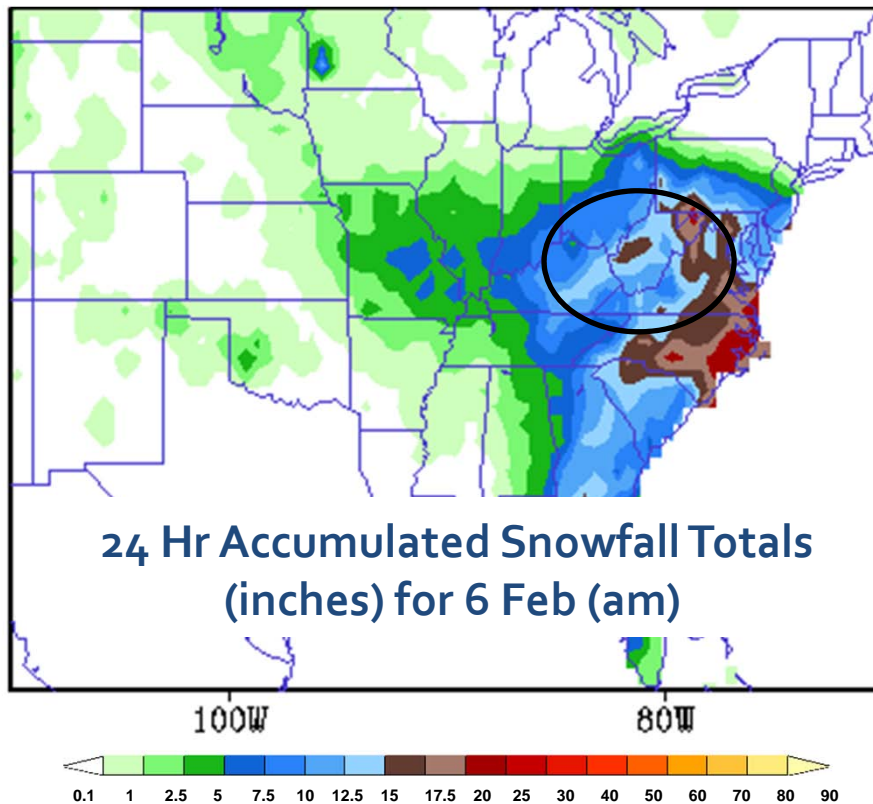
# Early Outlook: April Tornadoes



# CASE STUDY: "Snowmagedon"

February 6, 2010

Forecast comparison using NOAA's Polar-orbiting Operational Environmental Satellite Data



## Observed Snowfall

Actual Snowfall: **15-22"**

5 Day Snowfall Forecast: **15-18"**

5 Day Snowfall Forecast Without  
NOAA Afternoon Orbit Data: **7-10"**

**Result:** In DC and Mid-Atlantic coast, models without NOAA orbiting satellite data did not forecast this paralyzing event and ***under-forecast snow by at least 10 inches***

**Impacts:** Aircraft and airline passengers would have been stranded, ground commerce would have been halted with no mitigation plans, population would have been unprepared for paralyzing snow-depth



# April 2011 Tornadoes

