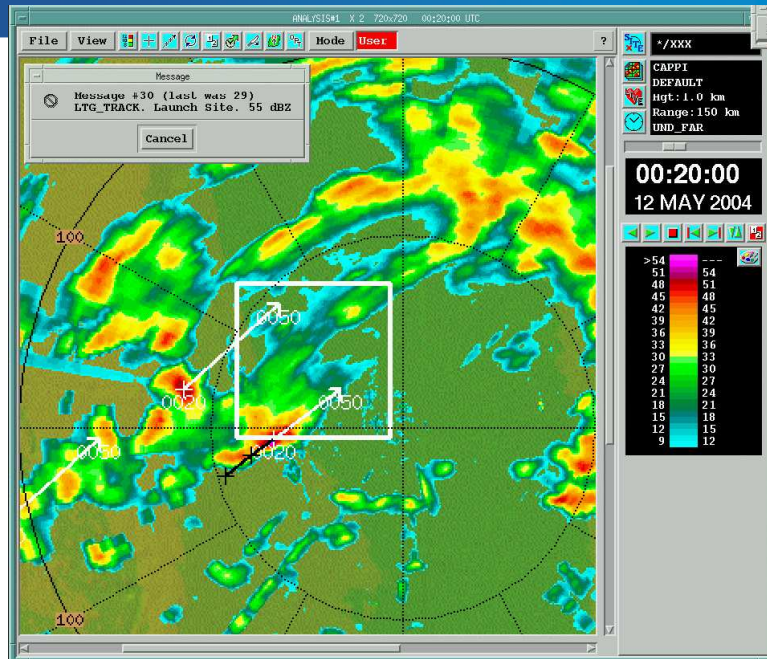
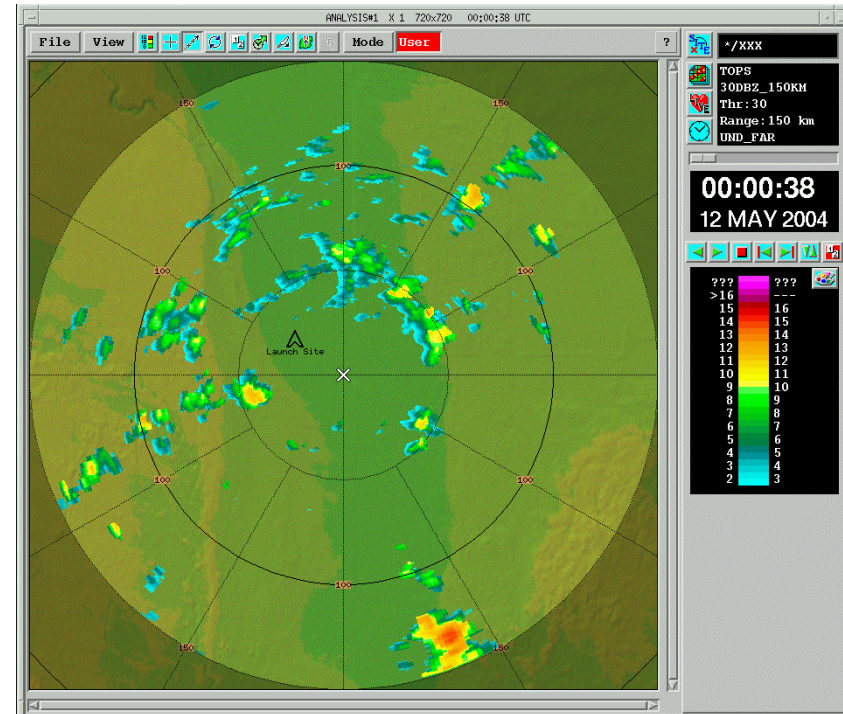


METEOROLOGICAL OBSERVATION AT ROCKET LAUNCH SITE



RADAR OBSERVATIONS AT LAUNCH SITE

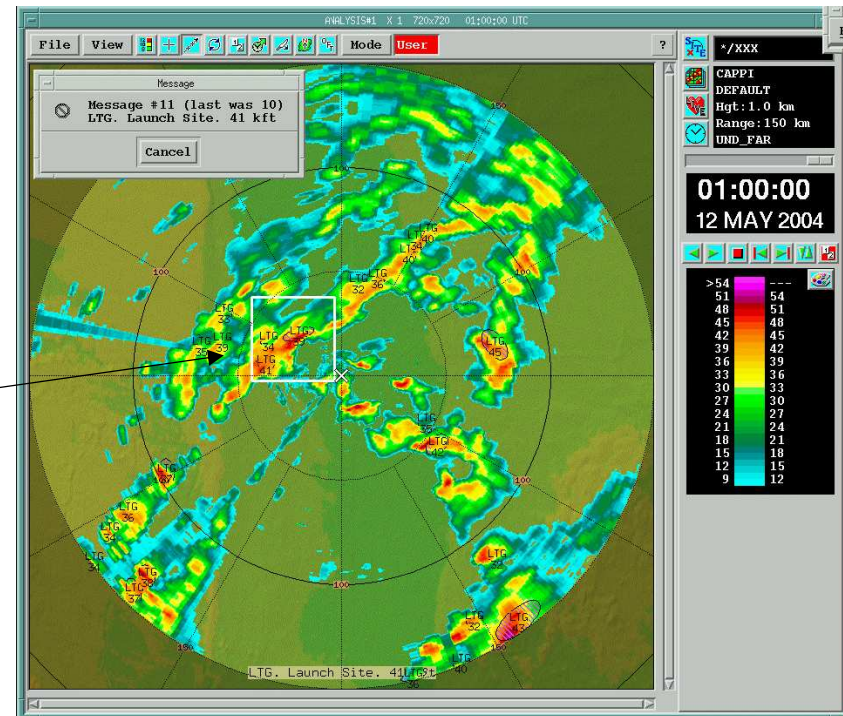
- Detect, locate and track precipitation
 - incl. intensity
- Verify low level windfields
- Evaluate local lightning potential
 - alone or together with Electric Field Mills and/or Lightning Detection Network
 - evaluate conditions for producing electric potential field before actual lightnings occur
- Track strenght and movement of lightning producing storms



RADAR OBSERVATIONS - IRIS TOPS & WARN

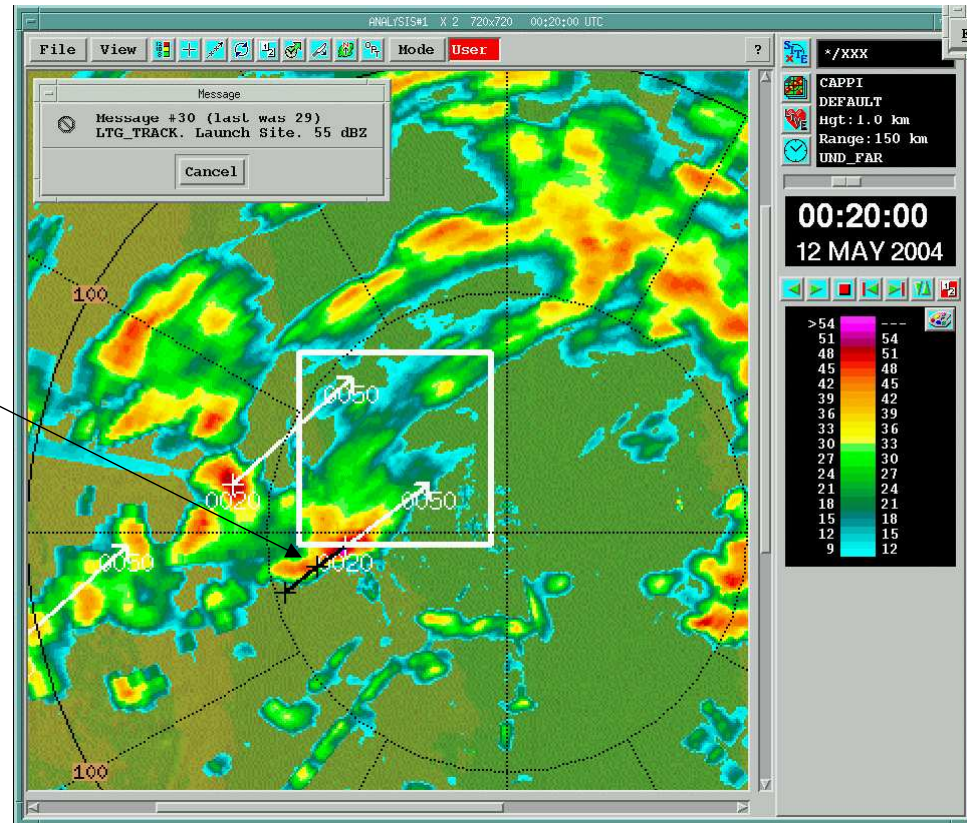
- Detect and locate high reflectivity (dBZ) above user set altitude
 - typically 30 dBZ above 30,000 ft
 - warnings of potentially electrified storms before first lightning strike
- Use of Electric Field Mills improve the results

launch criteria site



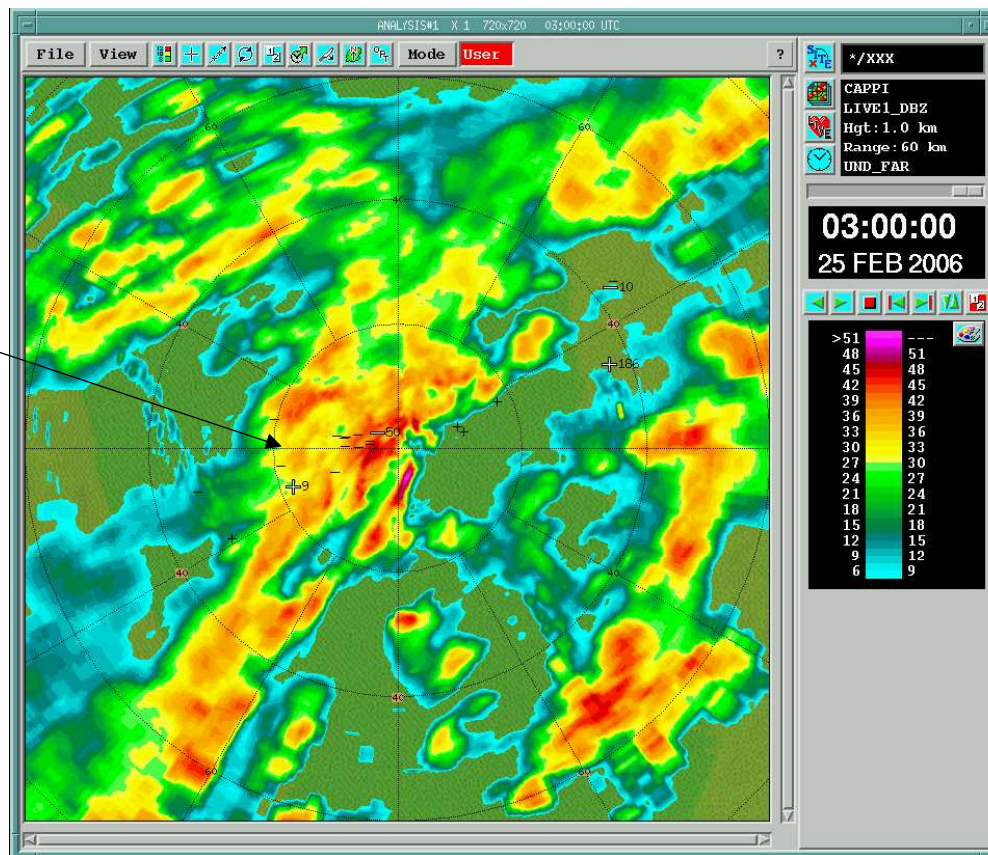
RADAR OBSERVATIONS - IRIS TRACK

Displaying past and forecasted speed and direction of storms exceeding user set criteria (e.g. 30/30)



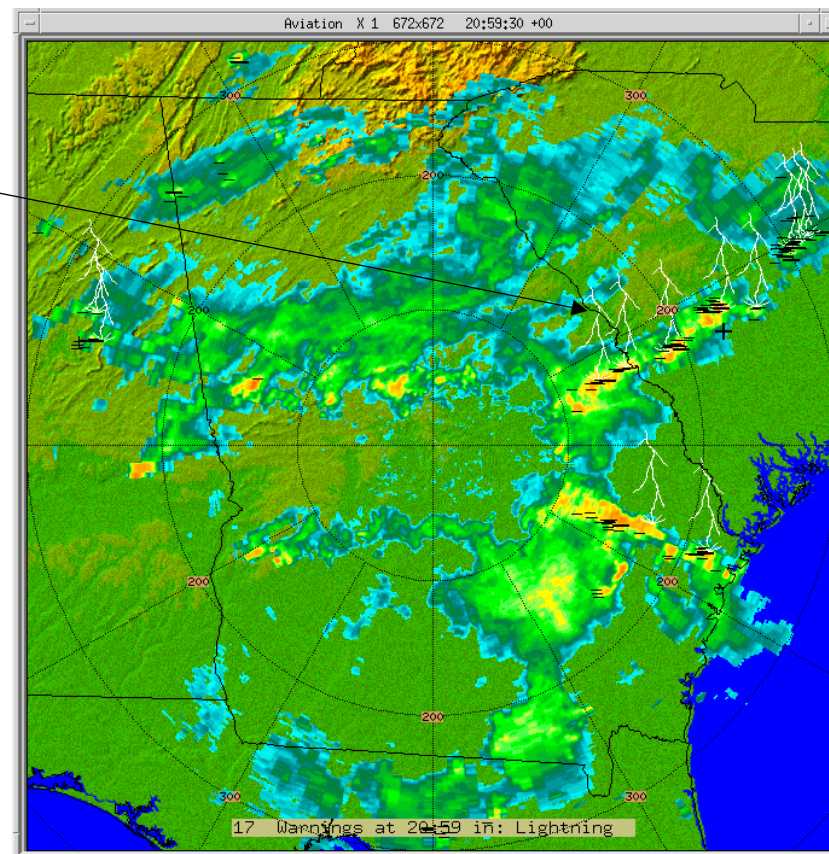
RADAR OBSERVATIONS - INTEGRATED WITH LIGHTNING DATA

Real-time lightning data on radar display (incl. e.g. estimated current in kilowatts)

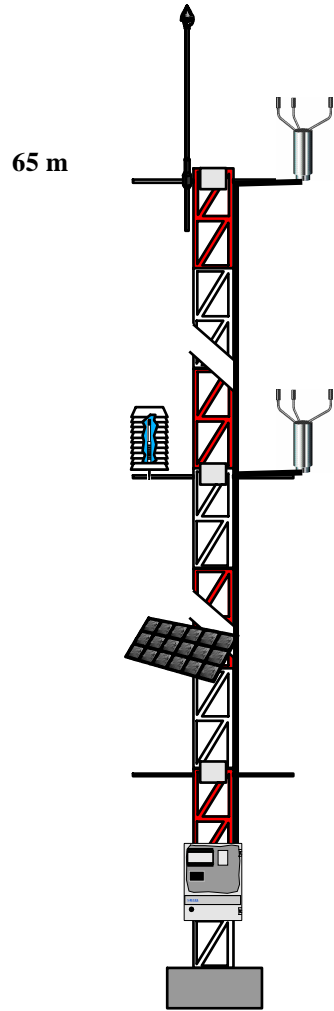


RADAR OBSERVATIONS - INTEGRATED WITH LIGHTNING DATA

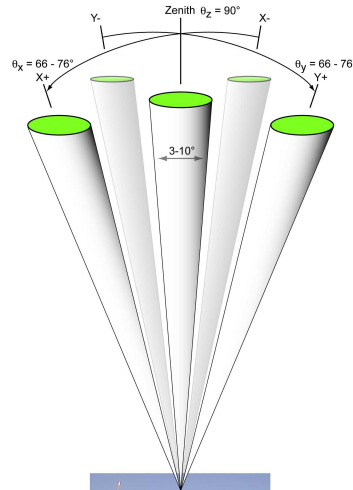
Real-time lightning data on radar display. For animation display, please see www.sigmet.com, Lightning Data Display.



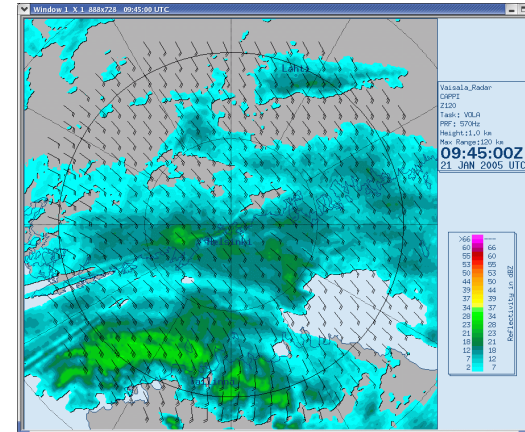
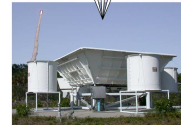
METEOROLOGICAL OBSERVATIONS AT LAUNCH SITE



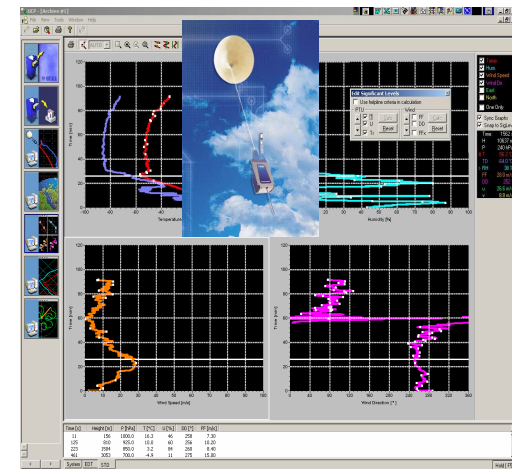
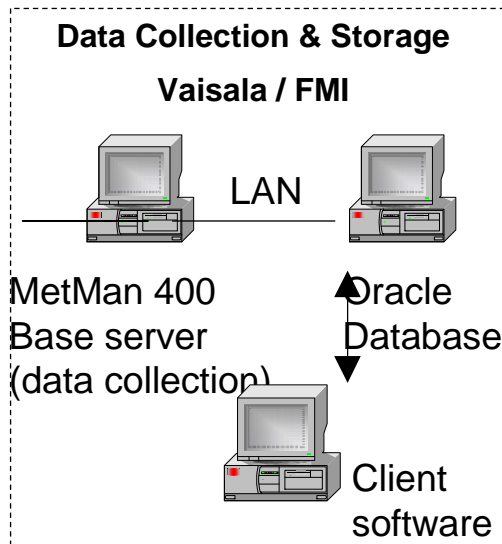
Multi-level wind towers



Windprofiling with RASS (T&U)



Radar with lightning data



Radiosounding data

