

Sonde Measurements of Atmospheric Layers at Langley (SMALL)

AVAPS Dropsondes by NASA Langley, a subsidiary of the
Langley Aerosol Research Group (LARGE)

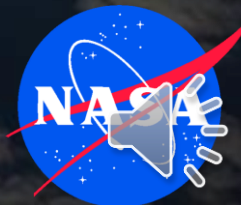
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Instrument Information

- The Airborne Vertical Atmospheric Profiling System (AVAPS) was mounted on the NASA King Air (UC12) and utilized the NCAR nRD41 mini sondes for the duration of the mission.
- Measures high resolution vertical profiles of temperature, dew point, altitude, humidity, wind speed and direction

nRD41 Sensor Specifications

	Range	Uncertainty	Resolution
Pressure	1080-100 hPa	± 0.5 hPa	0.01 hPa
Temperature	-90 to +60 C	± 0.2 C	0.01 C
Humidity	0-100%	± 3%	0.01%
Horiz Wind	0-200 m/s	± 0.5 m/s	0.01 m/s

Best Data Practices

Please Read the ACTIVATE Dropsonde Report for Each Year

Please Read the ICARTT File Header

- Both in the Dropsonde Reports and the ICARTT header, problematic sondes are noted.

NCAR GPS Dropsonde

the definitive atmospheric profiling tool

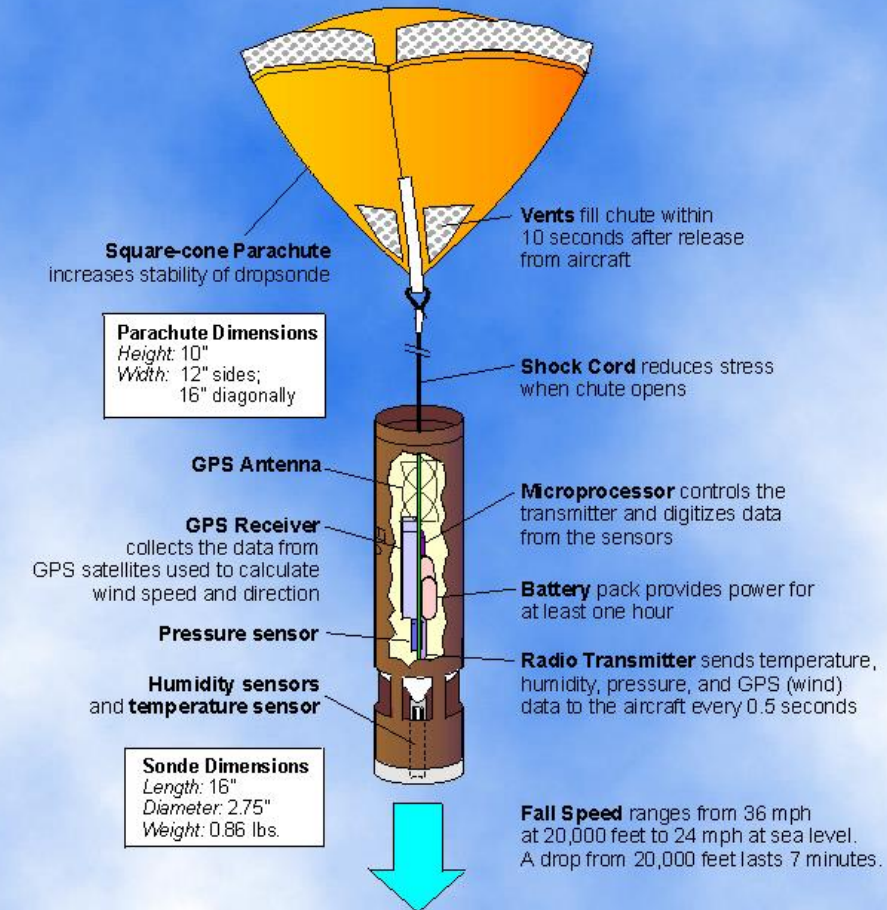


Image from NCAR AVAPS website:

<https://www.eol.ucar.edu/content/what-dropsonde>

