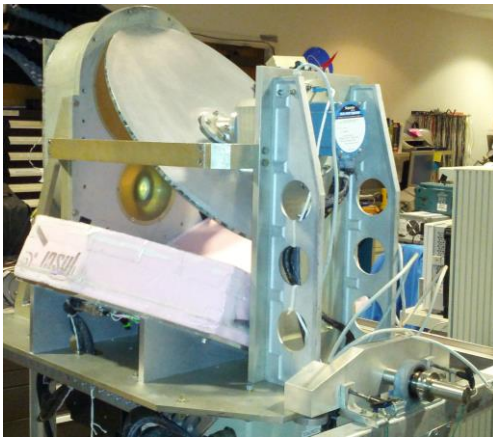




# CAMP2Ex Cloud Physics



## Instrument name / PI:

**AMPR** (Advanced Microwave Precipitation Radiometer)  
 T. Lang, NASA MSFC

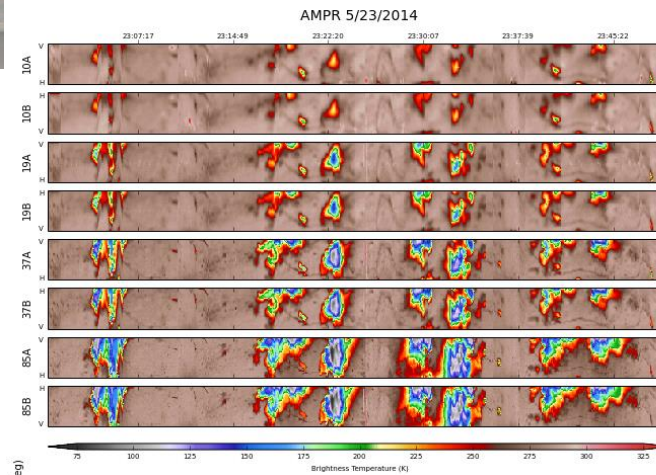
## Data/Measurements/Retrievals:

- Passive microwave radiometer – Retrieve surface emission, cloud liquid water, precipitation rate, water vapor, ice scattering, and more
- Four frequencies - 10.7, 19.35, 37.1, 85.5 GHz, with 2 variable polarization channels apiece (Channel A: V -> H and Channel B: H -> V)
- Cross-track scanning or nadir staring; works best with stable altitude legs above clouds; capable of real-time imagery



New for CAMP<sup>2</sup>Ex: Custom radome, filters for APR Ka signal

## Primary Data Examples:



Left: Strip chart time series of  $T_B$  for every channel/frequency from 5/23/14 IPHEX flight.

Right: 10 GHz (A)  $T_B$  for every TCSP (2005) flight.

