WVIOP 2000 Status: Wednesday, 04 October

Science Discussions

DIAL collected good data yesterday afternoon through 2 UTC. Backscatter plot indicated rising boundary layer at 2 - 3 minute time resolution. Ed Westwater indicated that the instantaneous tip calibrations successfully corrected brightness temperature differences between the spare and central facility MWR in the 31.4 GHz channel, however this was not the case for the 23.8 GHz channel. Nico Cimini modeled the impact of a 0.5 GHz frequency shift from the 23.8 GHz line and indicated an impact of 0.5 K on the brightness temperature. This issue is being discussed by the MWR group. Doug Sisterson is aware that the Central facility MWR and Spare MWR brightness temperature differences need to be rectified.

Weather

Cooler, more moisture, frontal passage around 1 am last night. Increasing cloudiness in the afternoon.

INSTRUMENT	STATUS/COMMENTS
Microwave	
CART CF (23.80/31.4 GHz)	No data between 22-11 UTC (power failure)
CART Spare (23.80/31.4 GHz)	OK (survived on battery power)
NOAA-CSR (20.6/31.65 GHz)	Down, still problem with time sync
NOAA-PSR (18/21, 10,37, 89 GHz with polarization)	OK
U of L'Aquila, Italy (23.8, 31.6, 53.5, 55.5, 58.0 GHz)	OK
JPL J-Unit (20.7, 22.2, 31.4 GHz)	OK
Lidar	
CART Raman WV (CARL)	OK
NASA, Scanning Raman WV (SRL)	OK, 18-11 UTC
Max Planck Inst DIAL WV	OK. 18-06 UTC
NASA HARLIE, cloud lidar	OK
CART MPL, cloud lidar	OK
BBSS (CART)	
Central Facility, Digi-CORA	OK, experiencing interference so losing some of the dual sonde launches
#2, PC-CORA	OK, experiencing interference so losing some of the dual sonde launches

BBSS Launch Site Refs.

THWAPS	OK
Chilled Mirror	OK

Tower In Situ Sensors

CART 60m HMP 35 South,10x	OK
CART 60m HMP 35 North	OK
CART 25m HMP 35 South,10x	OK
CART 25m HMP 35 North	OK
Chilled mirror 60m	Down from 00 - 18 UTC (rebooted and fine now)
OK MESONET 60m	OK
Chilled mirror 25m	Down from 00-18 UTC (rebooted and fine now)
OK MESONET 25m	OK
SMOS (CART)	OK

DataPlane

T, RH, P – tower to 1 km	Down

AERI

CART (AERI-01)	OK
Prototype (AERI-00)	Not operating

GPS

Central Facility	OK
Lamont NOAA	OK

Sun Photometer/Spectrometer

MFRSR N1(CART)	OK
MFRSR/RSS (Albany)	OK
Cimel Sunphotometer	OK
NASA AATS-6 channel	OK

Proteus Aircraft Flew from 1530 UTC - ~2210 UTC

NAST-I	OK
NAST-M	OK
FIRSC	Not expected to fly

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