

WVIOP 2000 Status: Monday, 02 October

Science Discussions

Ed Westwater indicated that instantaneous tip calibrations vs 10 average tip calibrations improve agreement between the Central and Spare MWR systems. Using instantaneous tip calibrations show 1 K differences from ten day average procedure. New tests will be done tomorrow using the tip calibration procedure and blackbody. Dave Whiteman presented encouraging daytime Scanning Raman lidar results which show relative good agreement to the 2330 UTC radiosonde launch on Sunday (Oct. 1). Data plane flew Monday evening between 5:30 and 7 pm.

Weather

Clear, hot, and windy.

INSTRUMENT	STATUS/COMMENTS
<u>Microwave</u>	
CART CF (23.80/31.4 GHz)	No data between 13-14 UTC (hung up)
CART Spare (23.80/31.4 GHz)	OK
NOAA-CSR (20.6/31.65 GHz)	Went down, 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)	Working now
JPL J-Unit (20.7, 22.2, 31.4 GHz)	OK

Lidar

CART Raman WV (CARL)	OK (collecting data in ten second mode)
NASA, Scanning Raman WV (SRL)	Running in 10 second collection mode, scanning mode on Saturday evening, more instability in YAG
Max Planck Inst DIAL WV	OK. Good data yesterday afternoon
NASA HARLIE, cloud lidar	OK (Noon - 2 am local)
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	Data collecting but data link down
OK MESONET 60m	Data collecting but data link down
Chilled mirror 25m	OK
OK MESONET 25m	OK
SMOS (CART)	OK

DataPlane

T, RH, P – tower to 1 km	Operated to 900mb Monday evening, flew between 5:30- 7 pm
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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

Arrived in Stillwater

NAST-I	Expected first flight Tuesday
NAST-M	Expected first flight Tuesday
FIRSC	Not expected to fly

Wayne Feltz and Brian Osborne, University of Wisconsin