

WVIOP 2000 Status: Sunday, 24 September

The ARM site, like most of the state, experienced the first real rain in about 55 days. At the 2:00 Science and Coordination meeting, Jens Bosenberg discussed groundbased DIAL capabilities. The comparison with CARL from October 1999 was included. A major topic of discussion was the importance of good laboratory spectroscopic data for a range of absorption line strengths. The Raman comparison does suggest that some improvements in line strengths are needed to achieve better than 5% absolute accuracy. We also reviewed the available dual sonde profile comparisons and microwave scaling.

Weather: Low overcast clouds all day with some rain.

INSTRUMENT	STATUS/COMMENTS
<u>Microwave</u>	
CART CF (23.80/31.4 GHz)	Apparently shut down on Saturday when 90 degree rotation was first noticed. Not fixed until Monday. Frequent shutdowns are becoming a problem.
CART Spare (23.80/31.4 GHz)	Operating continuously in normal mode
NOAA-CSR (20.6/31.65 GHz)	Operated normally, except for 2 hours
NOAA-PSR (18/21, 10,37, 89 GHz with polarization)	Operated normally, except for 2 hours
U of L'Aquila, Italy (23.8, 31.6, 53.5, 55.5, 58.0 GHz)	Operated normally, except for 2 hours
JPL J-Unit (20.7, 22.2, 31.4 GHz)	Operating continuously in Tip Calibration mode

Lidar

CART Raman WV (CARL)	Operating Continuously
NASA, Scanning Raman WV (SRL)	No operations because of low clouds.
Max Planck Inst DIAL WV	No useful operations because of low clouds.
NASA HARLIE, cloud lidar	No operations because of low clouds.
CART MPL, cloud lidar	Operational

BBSS (CART)

Cental Facility, Digi-CORA	Dual, 3-hourly mode
#2, PC-CORA	Dual, 3-hourly mode

BBSS Launch Site Refs.

THWAPS	Operational.
Chilled Mirror	Operational

Tower In Situ Sensors

CART 60m HMP 35 South,10x	Operational
CART 60m HMP 35 North	Operational
CART 25m HMP 35 South,10x	Operational
CART 25m HMP 35 North	Operational
Chilled mirror 60m	Operational, except data link
OK MESONET 60m	Operational, except data link
Chilled mirror 25m	Newly installed and Operational, except data link
OK MESONET 25m	Newly installed and Operational, except data link
<u>SMOS</u> (CART)	Operational

DataPlane

T, RH, P – tower to 1 km	Weather not favorable for flight, but control problems not yet fixed
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AERI

CART (AERI-01)	Operational
Prototype (AERI-00)	Not operated because of low clouds.

GPS

Central Facility	Operating normally, expect data this week
Lamont NOAA	Operational

Sun Photometer/Spectrometer

MFRSR N1(CART)	Operational
MFRSR/RSS (Albany)	Operational
Cimel Sunphotometer	Operational
NASA AATS-6 channel	Not operated--no sun

Proteus Aircraft

<u>NAST-I</u>	Flights expected to start early October
<u>NAST-M</u>	Flights expected to start early October
<u>FIRSC</u>	Not expected to fly

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