

WVIOP 2000 Status: Saturday, 23 September

The power supply for DIAL arrived and was successfully installed. The flash lamps flashed and preliminary alignment was accomplished. All we need now is the sky to clear. The good agreement between the CARL lowest point and the tower in situ sensors suggests pursuing this comparison more seriously. Preliminary ETL LN2 blackbody results were reported for the ETL CSR. The differences of the mean parallel and perpendicular polarization orientations is about 1 K between the two channels, with 31.65 being higher at about 80.2 K.

Weather: Low overcast clouds all day with some mist, but little rain.

INSTRUMENT	STATUS/COMMENTS
<u>Microwave</u>	
CART CF (23.80/31.4 GHz)	Operating continuously in normal mode, but noticed that its orientation has changed. Now scanning N-S. Needs to be investigated.
CART Spare (23.80/31.4 GHz)	Operating continuously in normal mode
NOAA-CSR (20.6/31.65 GHz)	Operations restored 9:00AM CDT
NOAA-PSR (18/21, 10,37, 89 GHz with polarization)	Operations restored 9:00AM CDT
U of L'Aquila, Italy (23.8, 31.6, 53.5, 55.5, 58.0 GHz)	Operated normally
JPL J-Unit (20.7, 22.2, 31.4 GHz)	Operating continuously in Tip Calibration mode

Lidar

CART Raman WV (CARL)	Operating Continuously--ingest restored
NASA, Scanning Raman WV (SRL)	Operated from previous night until 5 AM CDT in 10-sec mode. Low clouds prevent useful operations PM.
Max Planck Inst DIAL WV	Operations restored, but low clouds restricted detailed verification of performance. Performed successful white cell test.
NASA HARLIE, cloud lidar	Operated from previous night until daybreak. Operation suspended because of poor weather and possible laser problem.
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.
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Chilled Mirror	Operational
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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
SMOS (CART)	Operational

DataPlane

T, RH, P – tower to 1 km	Spectrum analyzer showed little interference on site-- Weather not favorable for flight
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AERI

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

GPS

Central Facility	Operating, data access issue still unresolved
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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