

WVIOP 2000 Status: Monday, 18 September

The 3rd Water Vapor IOP formally began with a Kick-off science and coordination meeting at 2:00 PM. The turn-out was good, with representation from all expected groups and participation by Ted Cress and Jim Teske (the agenda can be found on the Web site). The IOP primary hours were defined to be 4:00 PM to midnight for special IOP instrumentation. The IOP got underway during a long period of drought in Oklahoma, with about 50 days without rain and numerous fires scattered across the state.

Weather: Totally clear and dry all day with moderate winds from the south. The total column water vapor dropped below 1 cm for part of the day. The first clouds in three days were sighted in the distance at sunset.

INSTRUMENT	STATUS/COMMENTS
<u>Microwave</u>	
CART CF (23.80/31.4 GHz)	Operating continuously in normal mode. Clear skies automatically trigger tip-calibration scanning of 10 angle samples (including 2 zenith samples) in 52 sec.
CART Spare (23.80/31.4 GHz)	Installed today. Operating continuously. Initially not well calibrated—Tip-cals will update
NOAA-CSR (20.6/31.65 GHz)	Installed starting AM—Collecting data PM
NOAA-PSR (18/21, 10,37, 89 GHz with polarization)	Installed starting AM—Collecting data PM— ADC problem prevented acquiring ambient calibration data
U of L'Aquila, Italy (23.8, 31.6, 53.5, 55.5, 58.0 GHz)	Installed starting AM—Collecting data PM
JPL J-Unit (20.7, 22.2, 31.4 GHz)	Operating continuously in Tip Calibration mode, 9 angles

Lidar

CART Raman WV	Operating continuously
NASA, Scanning Raman WV	Operated during IOP prime hours. Problem encountered with scanning mode alignment
Max Planck Inst DIAL WV	Expected to arrive tomorrow (delayed by customs)
NASA HARLIE, cloud lidar	Operated during IOP prime hours
CART MPL, cloud lidar	Operational

BBSS (CART)

Cental Facility, Digi- CORA	Dual, 3-hourly mode initiated starting 9:30 AM
#2, PC-CORA	Dual, 3-hourly mode initiated starting 9:30 AM

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	Not Installed
OK MESONET 25m	Not Installed
SMOS (CART)	Operational

DataPlane

T, RH, P – tower to 1 km	Operating plans discussed
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AERI

CART (AERI-01)	Operational
Prototype (AERI-00)	Operated during IOP prime hours.

GPS

Central Facility	Operating, data access issue
Lamont NOAA	Operational

Sun Photometer/Spectrometer

MFRSR N1(CART)	Operational
MFRSR/RSS (Albany)	Operational
Cimel Sunphotometer	Operational
NASA AATS-6 channel	Installed starting AM—Collecting data PM

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>	Flights expected to start early October

Hank Revercomb, University of Wisconsin, IOP Chief Scientist.