## WVIOP 2000 Status: Wednesday, 20 September

Platforms were installed on the JPL J-Unit and the MWR in preparation for the first microwave LN2 calibration verification tomorrow. At the science meeting, it was reported that prelaunch Sonde samples (recorded in the first point of sonde data files) do not correlate with microwave scaling data well enough to be useful for removing sonde-to-sonde differences. We need to use more prelaunch data, carefully selected from the time period when the sondes are in the "mailbox" being ventilated. Tom Wilkerson described the Harlie method of getting winds from cloud motions. Also, observations from Harlie, CRL, AERI, SRL of the frontal passage were reviewed. CARL observed interesting prefrontal wave structure. An intercomparison of the AERI prototype and AERI-01 showed excellent radiometric agreement for 16 September, but revealed a spectral calibration error for the CF AERI (probably dating to an earlier laser changesome relatively simple reprocessing is needed). There was a Cessina aerosol overflight of the site around 15:30 CDT.

<u>Weather</u>: Frontal passage very early in the morning (about 4:00 AM) resulted in much cooler temperatures and partly cloudy skies (cirrus morning, mixed with low scattered cumulus in the afternoon, clearing to evening). The winds shifted to northerly and were quite strong and gusty.

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## STATUS/COMMENTS

Microwave				
CART CF (23.80/31.4 GHz)	Operating continuously in normal mode.			
CART Spare (23.80/31.4 GHz)	Operating continuously in normal mode, improved			
	calibration from last night's tip-cal data			
NOAA-CSR (20.6/31.65 GHz)	Operated 16 hours during IOP prime hours			
NOAA-PSR (18/21, 10,37, 89	Operated normally— ADC arrived solving ambient			
GHz with polarization)	calibration data problem			
U of L'Aquila, Italy (23.8, 31.6,	Operated normally-Adequate tip cal data not yet			
53.5, 55.5, 58.0 GHz )	available			
JPL J-Unit (20.7, 22.2, 31.4	Operating continuously in Tip Calibration mode—			
GHz)	daily processed data file to be provided from JPL			

## Lidar

CART Raman WV (CARL)	Changed flash lamps—observed burns on amplifier
	rods—Laser vendor to be on-site Friday
NASA, Scanning Raman WV	Operated until early morning to observe frontal
(SRL)	passage. Successfully got scanning data. Still refining
	scanning procedure
Max Planck Inst DIAL WV	Hopeful for operations soon. Fixed high voltage
	problem. Long path absorption facility damaged in
	transit (>1-2 days for fix)
NASA HARLIE, cloud lidar	Operated until early morning to observe frontal

	passage		
CART MPL, cloud lidar	Operational		
BBSS (CART)			
Cental Facility, Digi-CORA	Dual, 3-hourly mode. Problems with handling RS		
	90s—only 2 successes out of 9		
#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	Data recently went bad—looking for cause		
CART 60m HMP 35 North	Operational (interchange of data with 25m corrected)		
CART 25m HMP 35 South, 10x	Data recently went bad—looking for cause		
CART 25m HMP 35 North	Operational (interchange of data with 25m corrected)		
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	Winds too strong and gusty for operations		
1, KII, I – towel to I kiii	Whites too strong and gusty for operations		
AERI			
CART (AERI-01)	Operational		
Prototype (AERI-00)	Operated during IOP prime hours.		
110000) (12214 00)	operated daring 101 printer nource		
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	Operated normally		
Proteus Aircraft			
NAST-I	Flights expected to start early October		
NAST-M	Flights expected to start early October		

<u>FIRSC</u>	Flights expected to start early October
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