

## DISCOVER-AQ Daily Observational Status

**Date: 8 September 2013**

### **Status definitions:**

**Green = Full Capability (no comment required)**

**Yellow = Partial Capability (comment on specific instruments or variables compromised)**

**Red = Severe or Total Loss of Capability (comment on prognosis for recovery)**

P-3B	Status	Comment
LARGE (Anderson)	Green	
NOxyO3 (Weinheimer)	Green	
TD-LIF (Cohen)	Green	
DFGAS (Fried)	Green	
DACOM (Diskin)	Green	
DLH (Diskin)	Green	
AVOCET (Yang)	Green	
PTR-MS (Wisthaler)	Green	
NOAA SO2 (Holloway)	Green	
PDS (Barrick)	Green	
REVEAL (VanGilst)	Green	
B200	Status	Comment
HSRL-2 (Hostetler)	Green	
ACAM (Janz)	Green	
Ground	Status	Comment
Pandora (Herman)	Green	
NATIVE (Thompson)	Green	see attached report
UMBC (Hoff)	Red	MPL being shipped to Houston, could be ready by 9/13
Millersville (Clark)	Green	
Aeronet (Holben)	Green	
Aerodyne(Herndon)	Green	
Cambridge (Mead)	Green	
NOAA Lidar (Hardesty)	Green	
NOAA Radiation (Lantz)	Green	
Moody Tower (Lefer)	Green	
EPA (Long/Szykman)	Green	
TCEQ/City of Houston	Status	Comment
Channelview	Green	
Conroe	Green	
Deer Park	Green	
Galveston	Green	
Manvel Croix	Green	
West Houston	Green	

**Penn State/NATIVE  
DISCOVER-AQ Houston 2013**

**Smith Point, TX**

**Lat:** 29.54556  
**Lon:** -94.77991  
**Last Updated:** 8-Sep-2013  
**Contact:** Douglas Martins  
**Email:** [dkm18@psu.edu](mailto:dkm18@psu.edu)  
**Phone:** 814-777-7346

Legend
Nominal
Data Suspect/Waiting
Not Recording

\* All Times in UTC (=CDT+5)

**Overall Status**

Instrument (Mfg/Model)	Status	Constituent
<b>Penn State</b>		
Ozone Analyzer (O3, TECO 49C)		O3
Sulfur Dioxide Analyzer (SO2, TECO 43C)	Calibration today	SO2
Carbon Monoxide Analyzer (CO, TECO 48C)	Calibration today	CO
Reactive Nitrogen Analyzer (NOy, TECO 42C-Y)		NO, NOy
Temperature Probe (R.M. Young 41382L-90C)		Temperature
Relative Humidity Probe (R.M. Young 41382L-90C)		Relative Humidity
Pressure (R.M. Young 61202)		Pressure
Mechanical Anemometer (R.M. Young 05103)		Wind Speed, Direction
J-NO2 Filter Radiometer (Met-Con)		NO2 Photolysis Rate
Spectral Pyranometer (Eppley PSP)		Total Irradiance
Sonic Anemometer (Applied Technologies K-Style)		u, v, w, temperature
PTR-MS (Ionicon)		Speciated VOCS
VOC canisters	3 VOC canisters	Speciated VOCS
Pandora	Not set up yet, low priority since NASA Goddard already has 2 pandoras in operation, not mission critical	Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	1 ozonesonde today targeting Aura overpass	O3, Temperature, Pressure, Relative Humidity, Wind Speed, Wind Direction
Cavity Ring-Down Spectrometer (Picarro)		CO2, CH4, 13CO2, 13CH4
Measurement of Ozone Production Sensor (Penn State)		O3 Chemical Production Rate
*Instrument statuses below are based on Penn State's assessment, true assessment provided by PI		
<b>NASA Goddard</b>		
Pandora (2)	Lost power between 11:00-14:30 LT, back online	Column NO2, O3
<b>EPA/NASA Langley</b>		
CAPS NO2		NO2