

DISCOVER-AQ Daily Observational Status

Date: 6 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	Clinton moved to Moody Tower, heat problems at West Houston solved
NATIVE (Thompson)	Green	see attached report
UMBC (Hoff)	Red	Leosphere down and cannot be repaired in time to return to service
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: 6-Sep-2013
Contact: Douglas Martins
Email: 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
Penn State		
Ozone Analyzer (O3, TECO 49C)		O3
Sulfur Dioxide Analyzer (SO2, TECO 43C)		SO2
Carbon Monoxide Analyzer (CO, TECO 48C)		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	5 VOC canisters today	Speciated VOCS
Pandora	Not set up yet, low priority since NASA Goddard already has 2 pandoras in operation	Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	2 ozonesonde launches, afternoon sonde lost communication at 8000 m, possible bad radiosonde	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		
NASA Goddard		
Pandora		Column NO2, O3
EPA/NASA Langley		
CAPS NO2		NO2

