

DISCOVER-AQ Daily Observational Status

Date: 9 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: 9-Sep-2013
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Legend
Nominal
Data Suspect/Waiting
Not Recording

* All Times in UTC (=CDT+5)

Overall Status

Instrument (Mfg/Model)	Status	Constituent
<i>Penn State</i>		
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	2 VOC Canisters	Speciated VOCS
Pandora	Pandora set up, not aligned due to lack of sun	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		
<i>NASA Goddard</i>		
Pandora (2)	Lost power between 11:00-13:00 LT, replaced surge protector	Column NO2, O3
<i>EPA/NASA Langley</i>		
CAPS NO2		NO2