

## DISCOVER-AQ Daily Observational Status

**Date: 26 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)		
NOxyO3 (Weinheimer)		
TD-LIF (Cohen)		
DFGAS (Fried)		
DACOM (Diskin)		
DLH (Diskin)		
AVOCET (Yang)		
PTR-MS (Wisthaler)		
NOAA SO2 (Holloway)		
PDS (Barrick)		
REVEAL (VanGilst)		
B200	Status	Comment
HSRL-2 (Hostetler)		
ACAM (Janz)		
Ground	Status	Comment
Pandora (Herman)		
NATIVE (Thompson)		see attached report
UMBC (Hoff)		
Millersville (Clark)		
Aeronet (Holben)		
Aerodyne(Herndon)		
Cambridge (Mead)		
NOAA Lidar (Hardesty)		
NOAA Radiation (Lantz)		
Moody Tower (Lefer)		
EPA (Long/Szykman)		
TCEQ/City of Houston	Status	Comment
Channelview		
Conroe		
Deer Park		
Galveston		
Manvel Croix		
West Houston		

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

**Smith Point, TX**

**Lat:** 29.54556  
**Lon:** -94.77991  
**Last Updated:** 26-Sep-2013  
**Contact:** Douglas Martins  
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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)		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	Speciated VOCS
Pandora		Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	3 Ozonesondes targeting residual layer, 1st and 2nd P3B profiles	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)		Column NO2, O3
<b>EPA/NASA Langley</b>		
CAPS NO2		NO2