DISCOVER-AQ Daily Observational Status

Date: 12 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)		Leosphere restored at 4:18pm local
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:	12-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	Speciated VOCS
Pandora		Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	2 Ozonesondes coincident with 1st and 3rd P3 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		
NASA Goddard		
Pandora (2)		Column NO2, O3
EPA/NASA Langley		
CAPS NO2		NO2