

DISCOVER-AQ Daily Observational Status

Date: 30 January 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)	Yellow	Lost SP2 early in flight, repaired after flight and should be ready
NOxyO3 (Weinheimer)	Green	
TD-LIF (Cohen)	Green	
DFGAS (Fried)	Green	
DACOM (Diskin)	Green	
DLH (Diskin)	Green	
AVOCET (Yang)	Green	
PTR-MS (Wisthaler)	Green	
NOAA NH3 (Nowak)	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 detailed report on next page)
UMBC (Hoff)	Green	
Millersville (Clark)	Green	
Aeronet (Holben)	Green	
UC-Davis (Zhang/Cappa)	Green	
UC-Davis (VanCuren)	Green	
UC-Santa Barbara (Leifer)	Red	Not deployed yet (collaboration; not mission critical)
UC-Irvine (Kim/Blake)	Green	
EPA (Long/Szykman)	Green	
NOAA (Michalsky/Lantz)	Green	
ARB/SJV APCD Sites	Status	Comment
Bakersfield Airport	Green	
Fresno-Garland	Green	
Hanford	Green	
Huron	Green	
Oildale	Green	
Porterville	Green	
Tranquility	Green	

**Penn State/NATIVE
DISCOVER-AQ 2013
Porterville, CA**

Lat: 36.0319
Lon: -119.055
Last Updated: 30-Jan-2013
Contact: Douglas Martins
Email: dkm18@psu.edu
Phone: 814-777-7346

Nominal

Data Suspect/Waiting

Not Recording

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)	Data collection at 10Hz	u, v, w, temperature
PTR-MS (Ionicon)		Speciated VOCS
VOC canisters	3 UCI canisters, 4 x 1-hr Penn State canisters	Speciated VOCS
Pandora		Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	1 sonde yesterday, 2 sondes today	Relative Humidity, Wind Speed, Wind Direction
Fast Mobility Particle Sizer		Particles
NOx Analyzer (Ecophysics CLD 60)	Instrument Not Working Properly	NO, NO2, Nox
Cavity Ring-Down Spectrometer		CO2, CH4, 13CO2, 13CH4
*Instrument statuses below are based on Penn State's assessment, true assessment provided by PI		
<i>UMBC</i>		
Nephelometer		Particles
Micro-pulse lidar		Aerosols
<i>NASA Goddard</i>		
Pandora		Column NO2, O3
Cimel sun photometer		Aerosol Optical Depth
<i>EPA/NASA Langley</i>		
CAPS NO2		NO2