

DISCOVER-AQ Daily Observational Status

Date: 16 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) | 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 NH3 (Nowak) | Green | |
| PDS (Barrick) | Green | |
| REVEAL (VanGilst) | Green | |
| B200 | Status | Comment |
| HSRL-2 (Hostetler) | Green | Still working on Iridium downlink (not mission critical) |
| ACAM (Janz) | Green | |
| Ground | Status | Comment |
| Pandora (Herman) | Yellow | 10 of 14 operational, 4 being emplaced (not mission critical) |
| NATIVE (Thompson) | Green | (see detailed report on next page) |
| UMBC (Hoff) | Green | RMAN lidar coming soon |
| Millersville (Clark) | Yellow | NO2 not ready (not mission critical) |
| 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: 16-Jan-2013
Contact: Douglas Martins
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Nominal

Data Suspect/Waiting

Not Recording

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) | Needs IR detector, will arrive on Jan 18 | 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) | Working on Data Acquisition | Total Irradiance |
| Sonic Anemometer (Applied Technologies K-Style) | Instrument Not Working Properly | u, v, w, temperature |
| PTR-MS (Ionicon) | | Speciated VOCs |
| VOC canisters | 3 UCI canisters, 3 Penn State Canisters | Speciated VOCs |
| Pandora | Data intermittent, Nader will replace communication cable tomorrow | Column NO2, O3 |
| Ozone/Radiosondes (DMT, IMet-1) | 1 sonde yesterday, 2 sondes today | O3, Temperature, Pressure, 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 | | |
| UMBC | | |
| Nephelometer | | Particles |
| RMAN Lidar | Arrives on Mon, Jan. 21 | u, v, w, altitude |
| Micro-pulse lidar | | Aerosols |
| NASA Goddard | | |
| Pandora | | Column NO2, O3 |
| Cimel sun photometer | | Aerosol Optical Depth |
| EPA/NASA Langley | | |
| CAPS NO2 | | NO2 |