Processing Record for this file:
(Make notes here unique for this file)

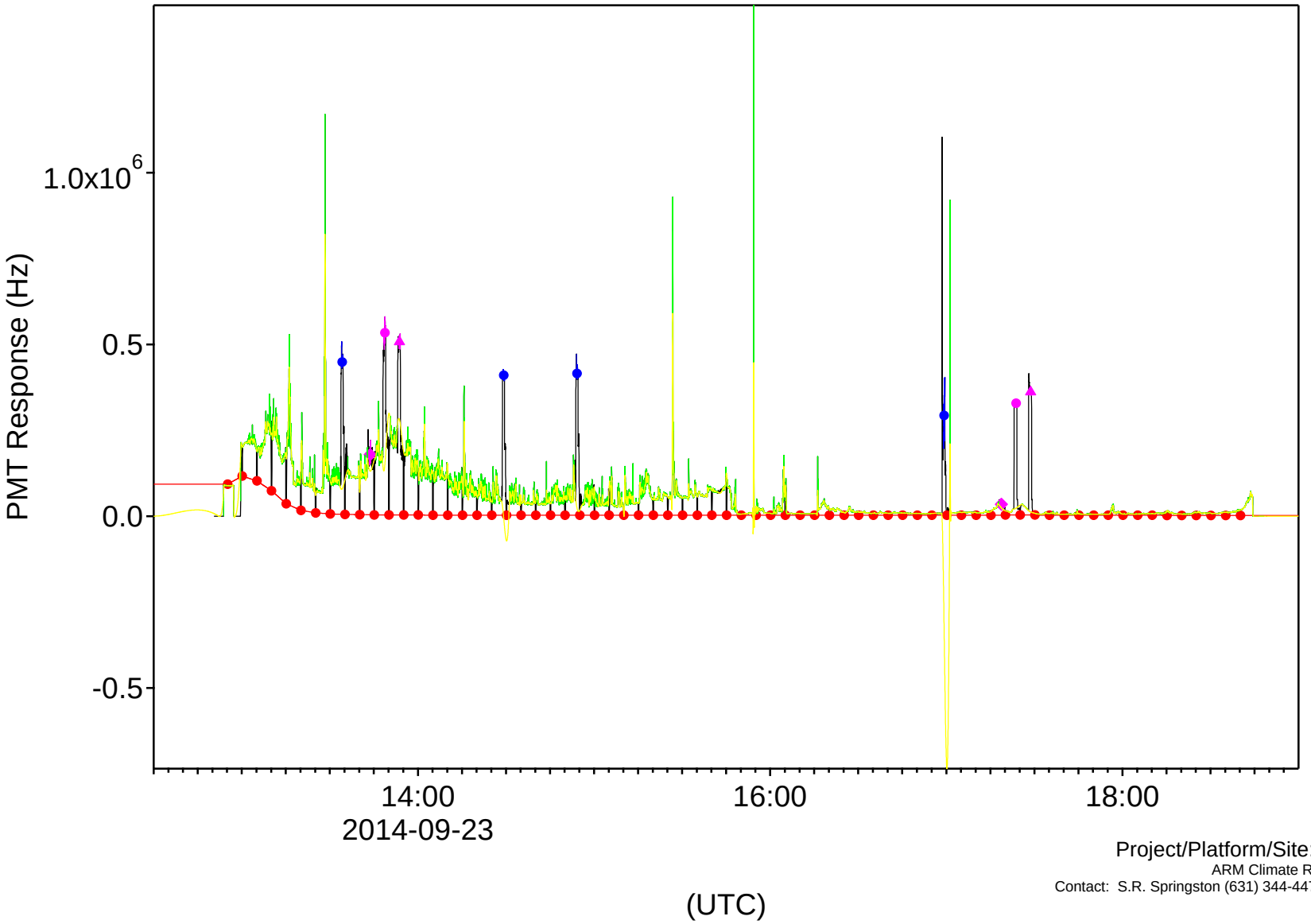
Loading from flight 140923a
Data taken from NOx CPU c:\data\NOx

Data in flight appear normal. Plume is prominently apparent.

It has been observed that the NO/NO2 ratios do not appear reasonable at low levels (<500 pptv). There seems to be a constant artifact in the NOx channel. This makes the NO2 reported high and should not be used directly. These data are only preliminary.

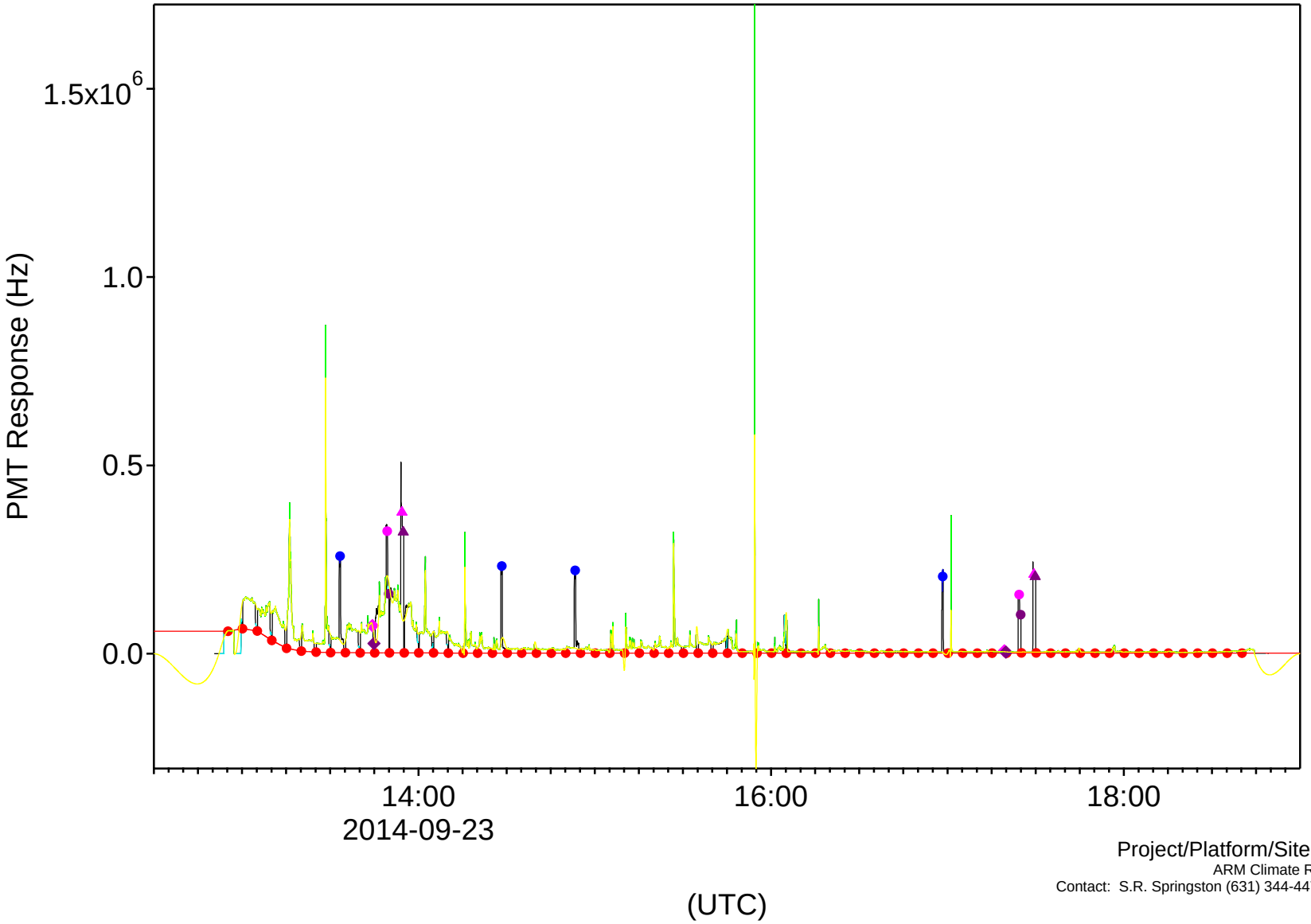
Operator reported a dry-ice bridge in the cooler leading to less than efficient cooling of the PMTs. Some increase in background noted, but appears inconsequential.

AAF 3-Channel NO_x Analyzer
Parsed NOy Channel Data



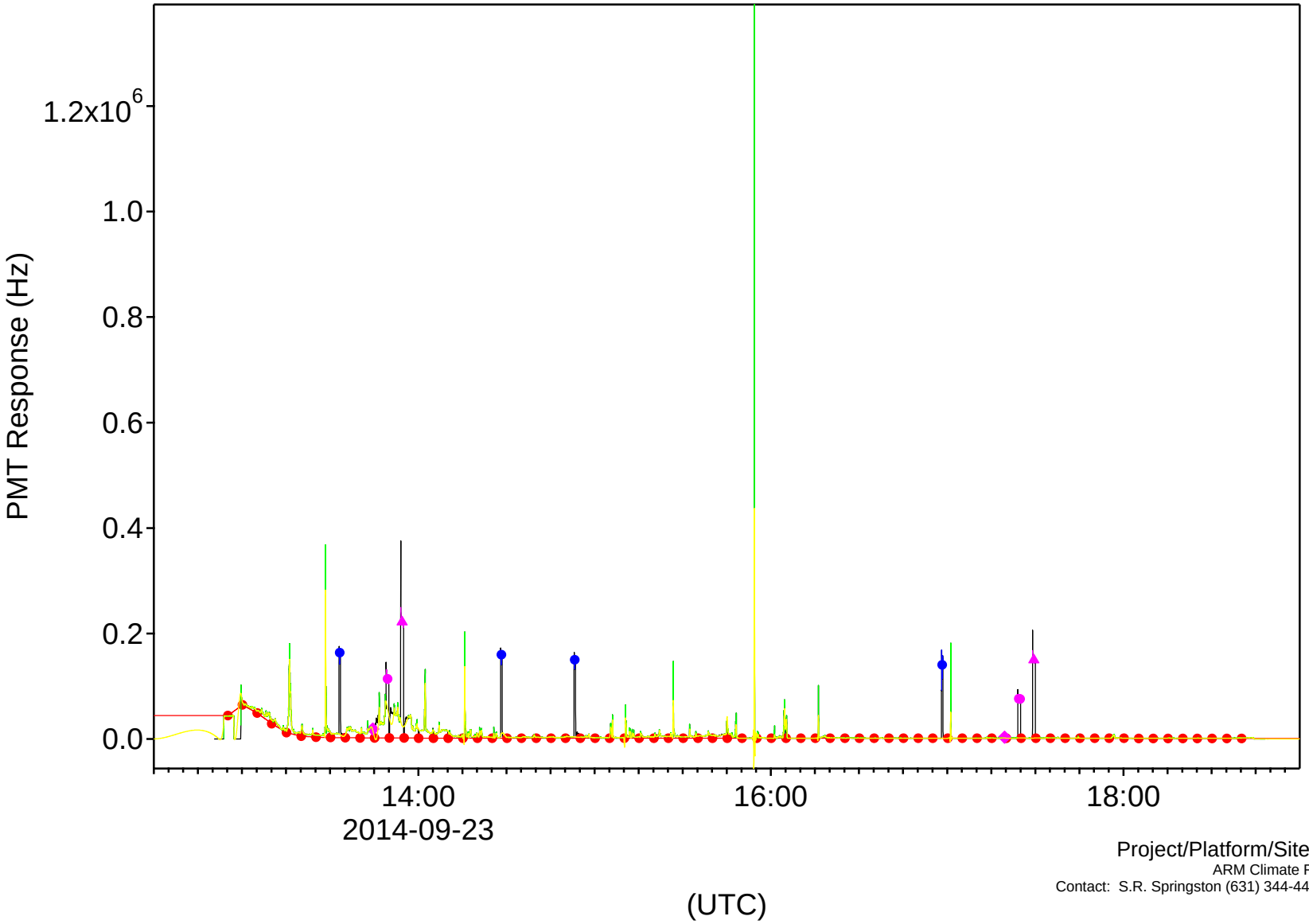
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF 3-Channel NO_x Analyzer
Parsed NOx Channel Data



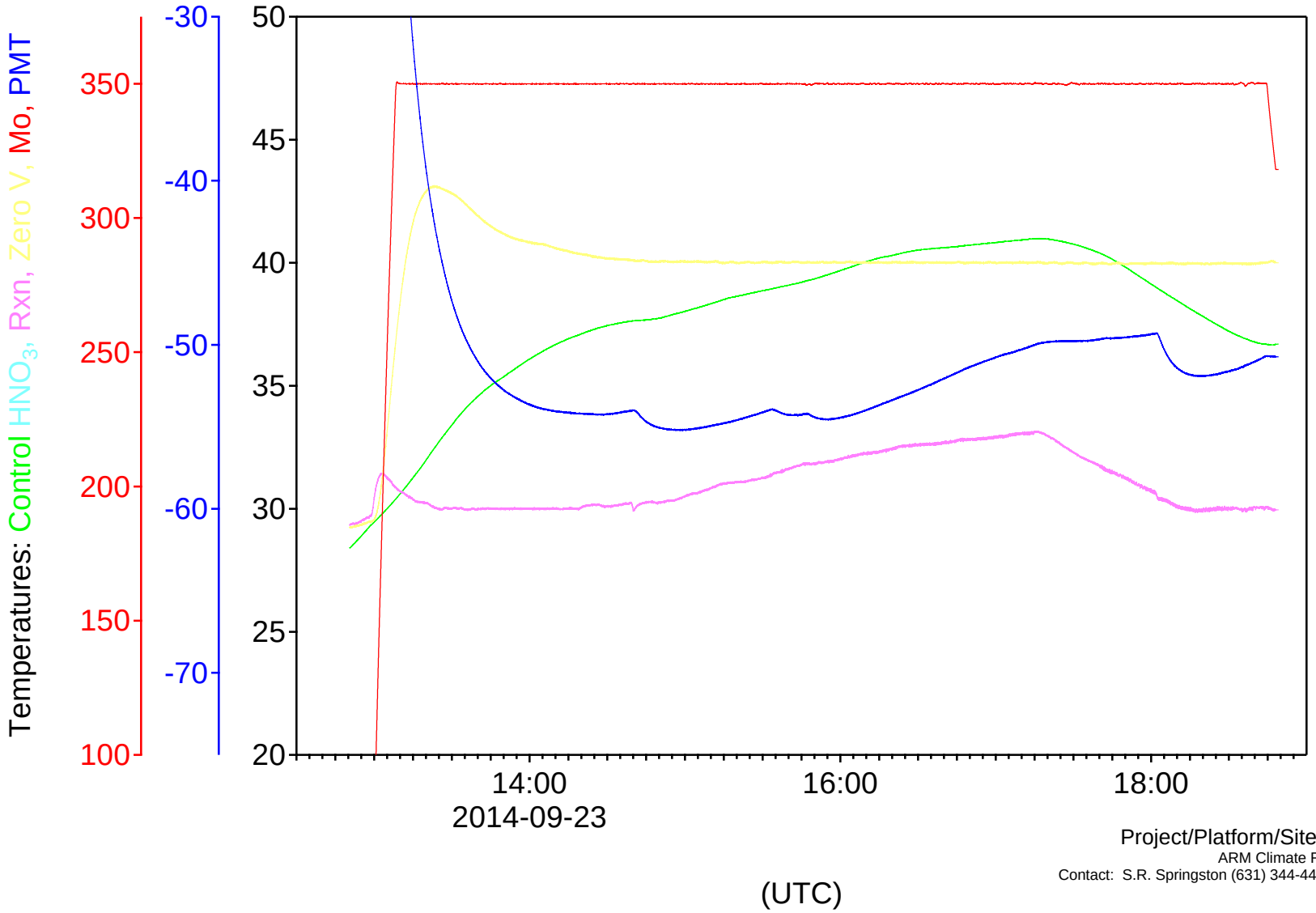
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF 3-Channel NO_x Analyzer
Parsed NO Channel Data



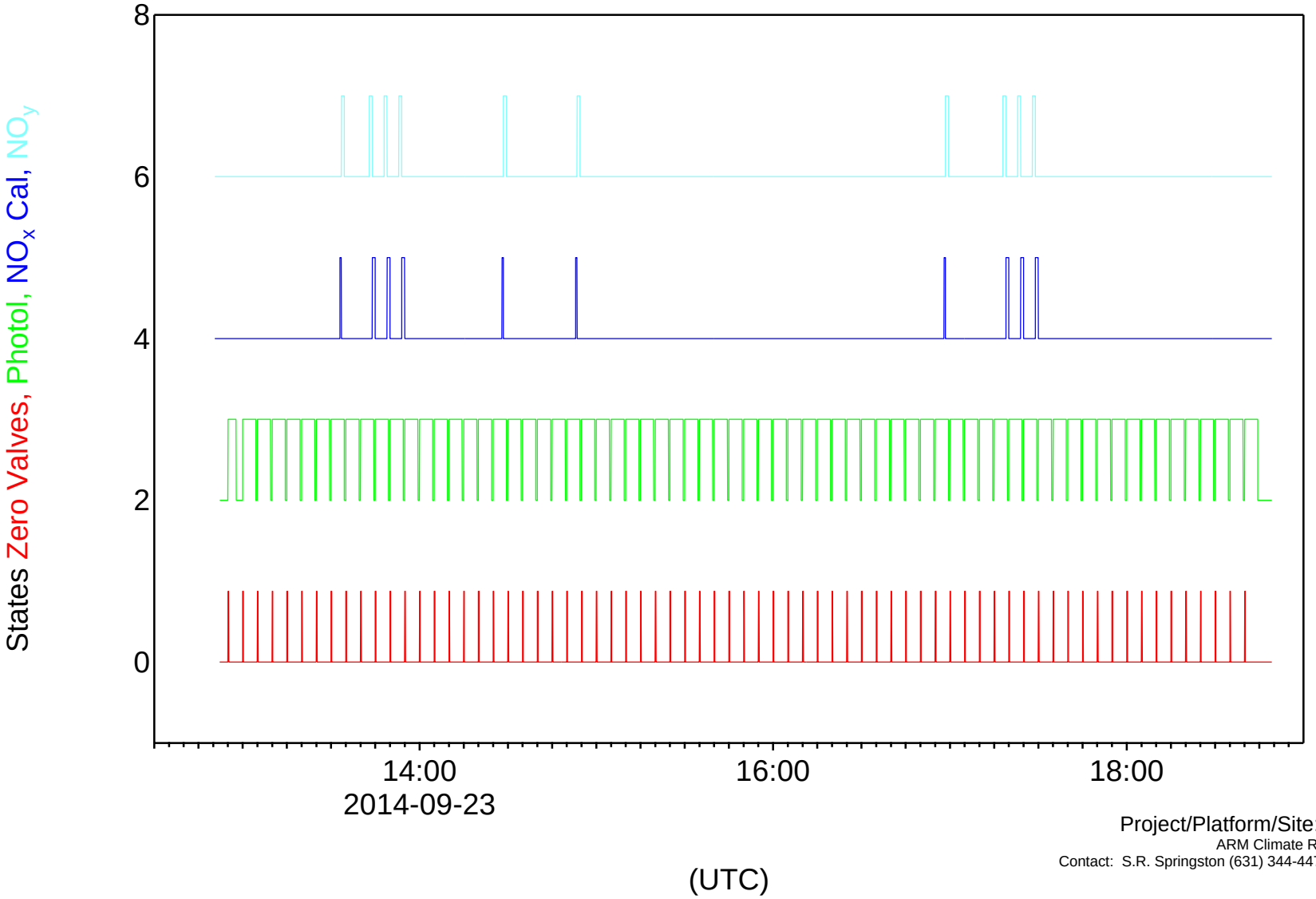
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF 3-Channel NO_x Analyzer
Housekeeping T
Temperatures

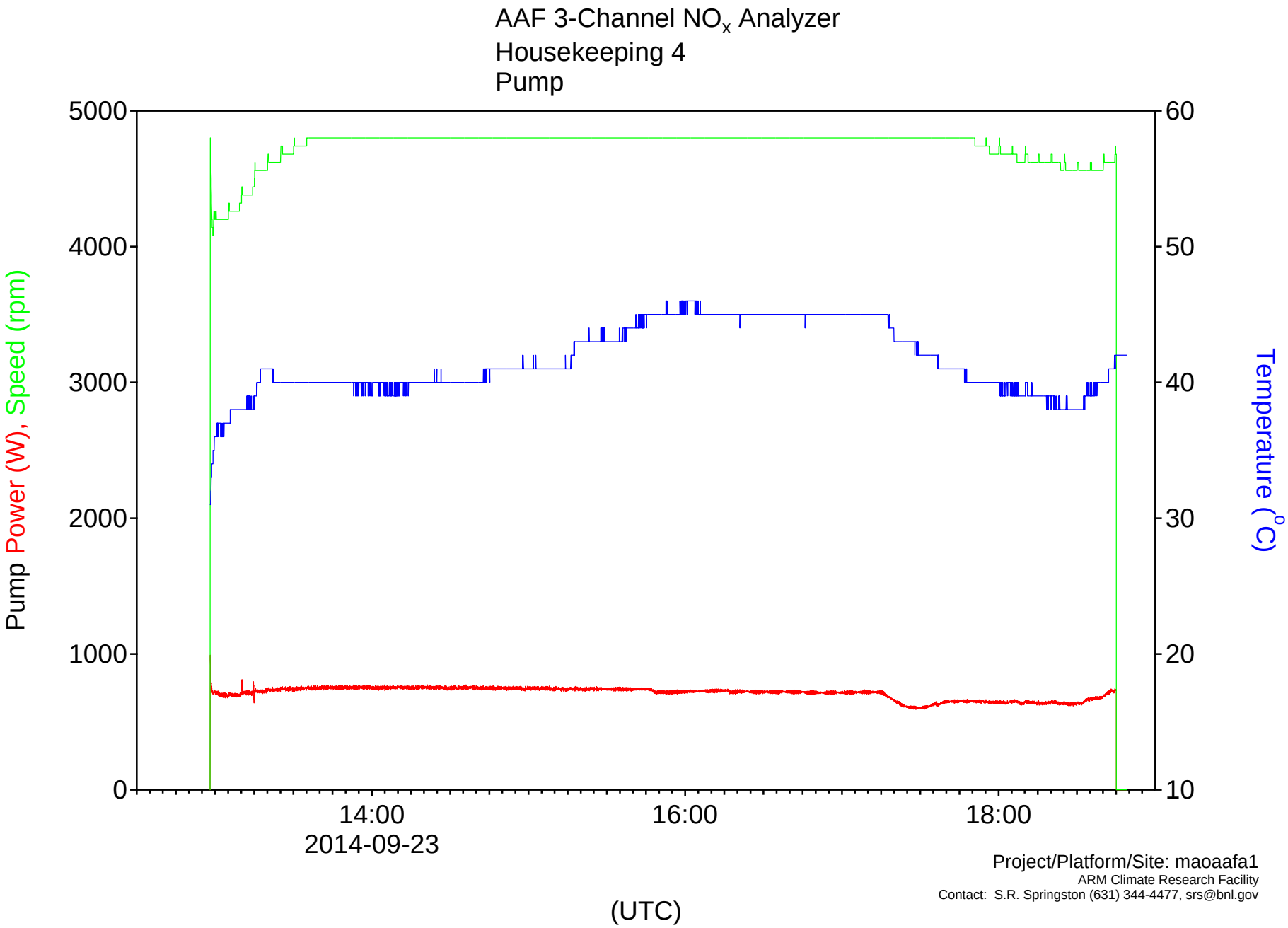


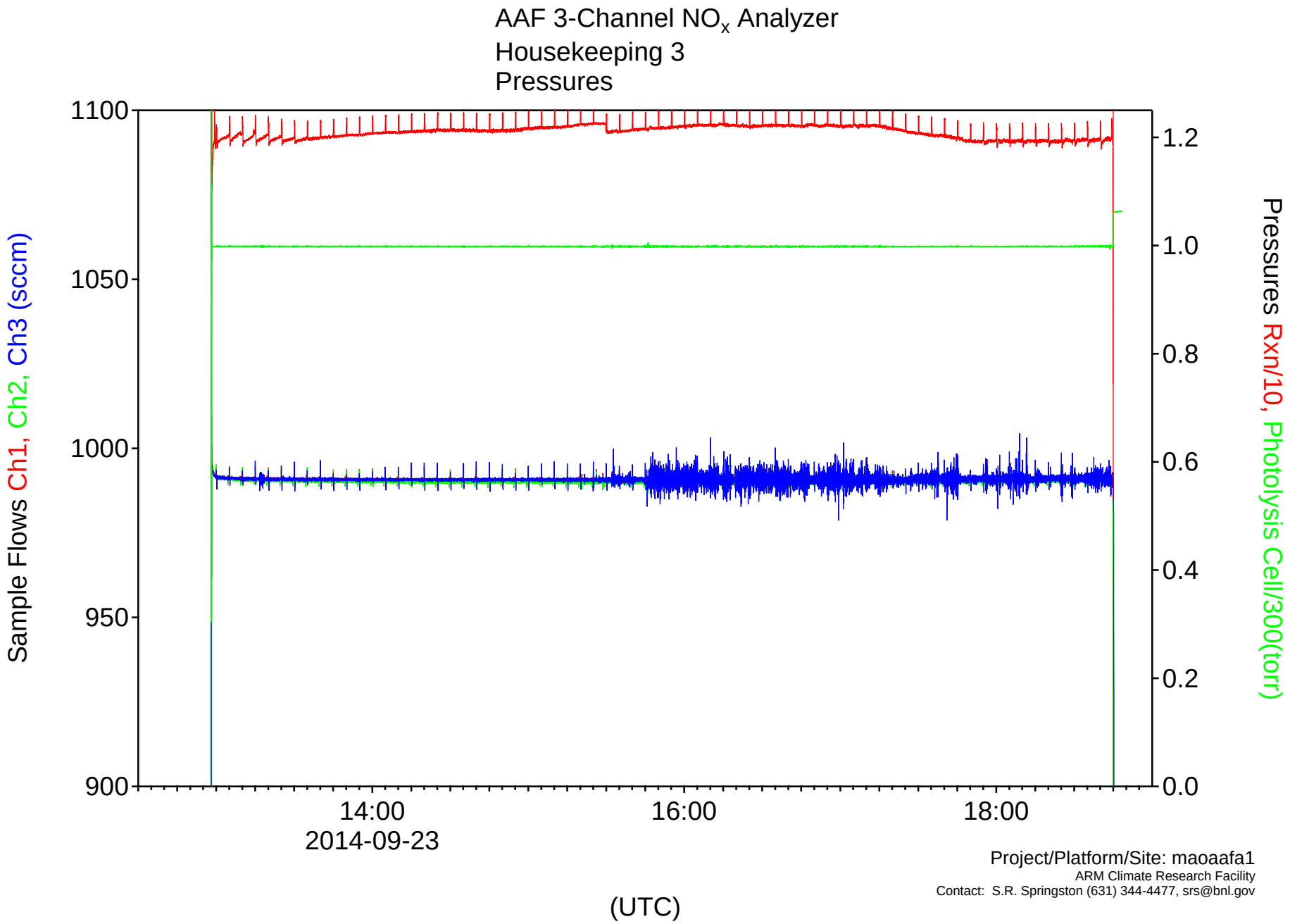
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

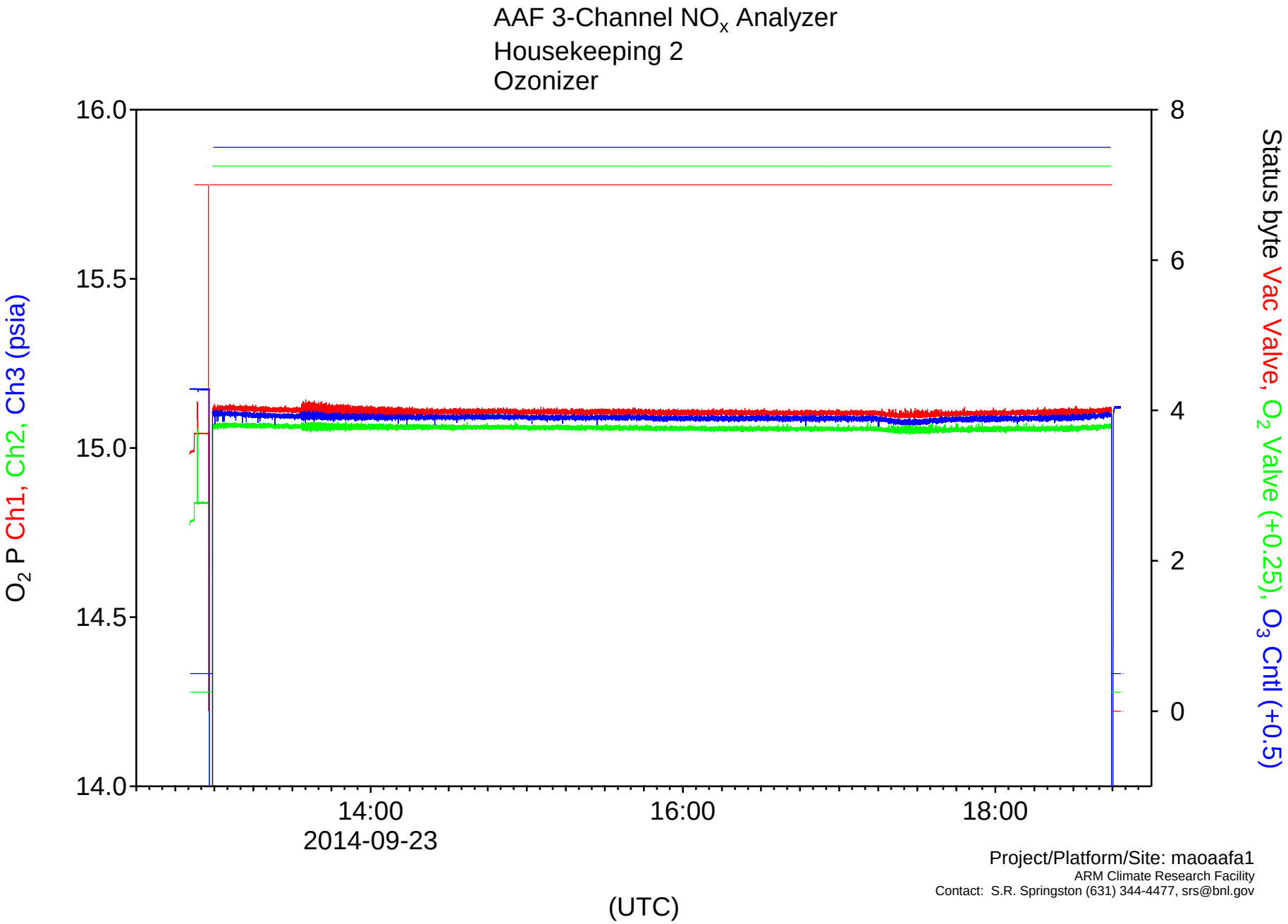
AAF 3-Channel NO_x Analyzer
Housekeeping 5
Zeros/Photol/SAs

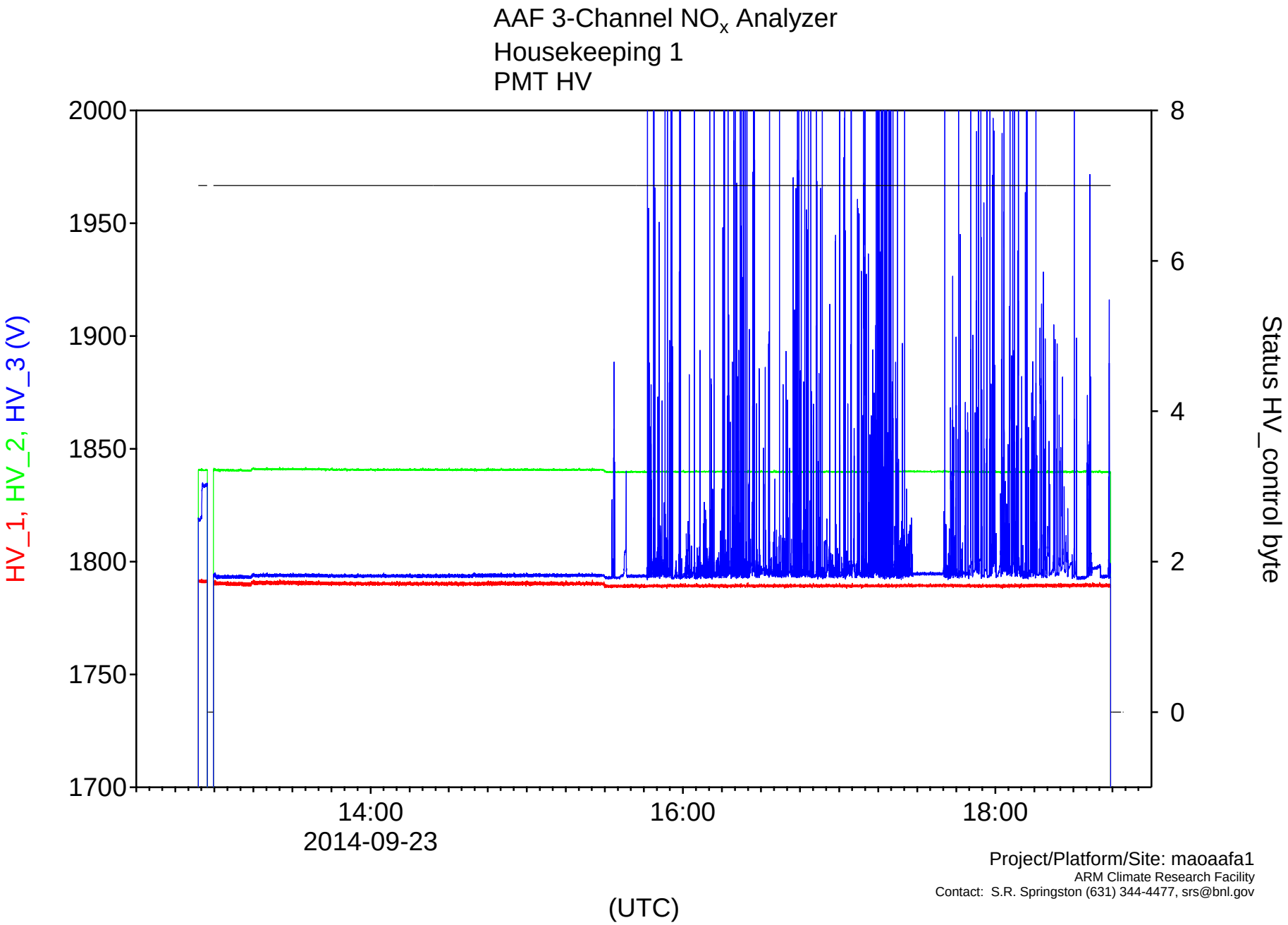


Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

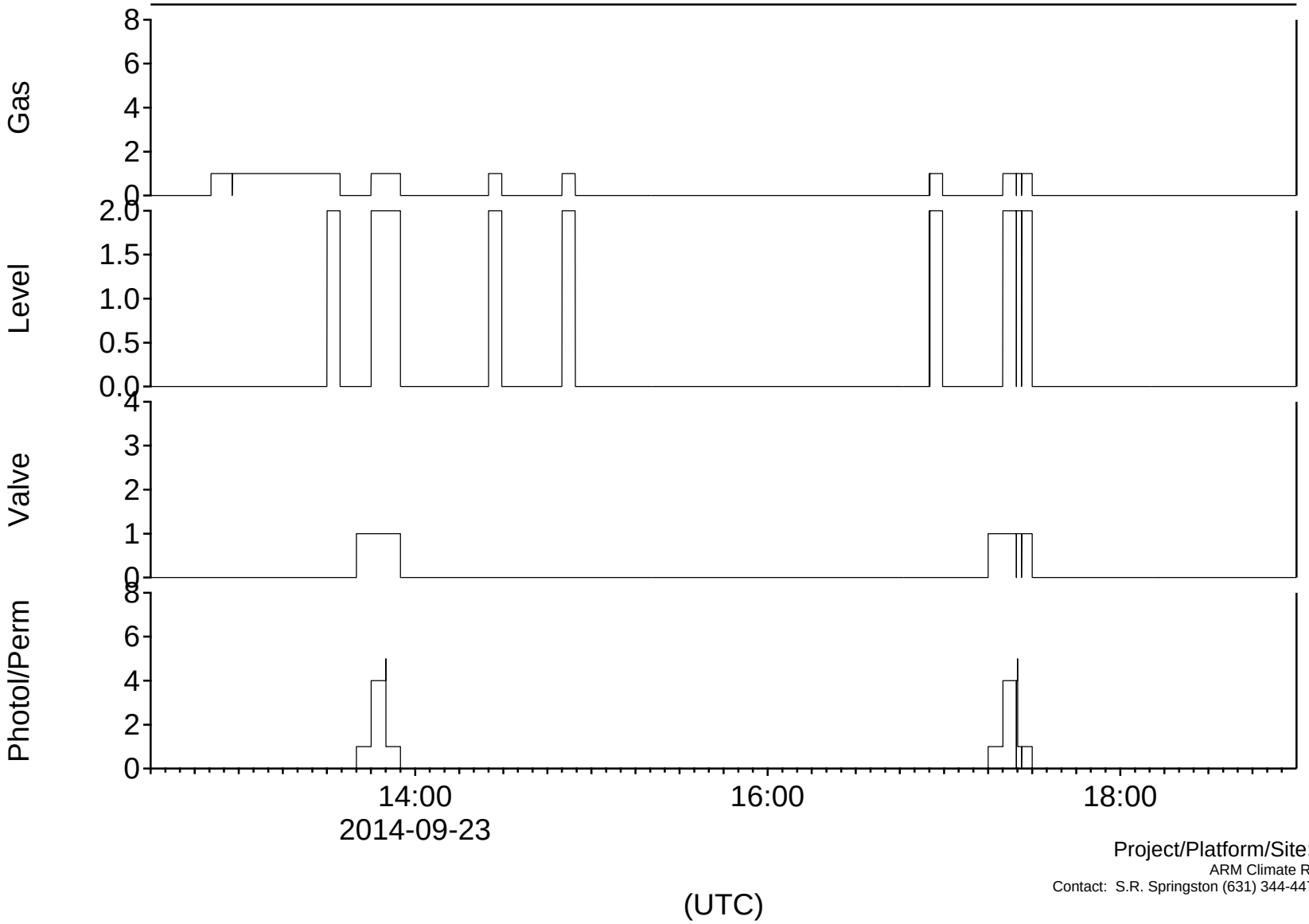

AAF 3-Channel NOx Analyzer
Housekeeping 4
Pump
Pump Power (W), Speed (rpm)
Temperature (°C)
5000
4000
3000
2000
1000
0
60
50
40
30
20
10
14:00
2014-09-23
16:00
18:00
(UTC)
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov


AAF 3-Channel NOx Analyzer
Housekeeping 3
Pressures
Sample Flows Ch1, Ch2, Ch3 (sccm)
Pressures Rxn/10, Photolysis Cell/300(torr)
1100
1050
1000
950
900
1.2
1.0
0.8
0.6
0.4
0.2
0.0
14:00
2014-09-23
16:00
18:00
(UTC)
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov


AAF 3-Channel NOx Analyzer
Housekeeping 2
Ozonizer
16.0
15.5
15.0
14.5
14.0
8
6
4
2
0
O2 P Ch1, Ch2, Ch3 (psia)
Status byte Vac Valve, O2 Valve (+0.25), O3 Cntl (+0.5)
14:00
2014-09-23
16:00
18:00
(UTC)
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

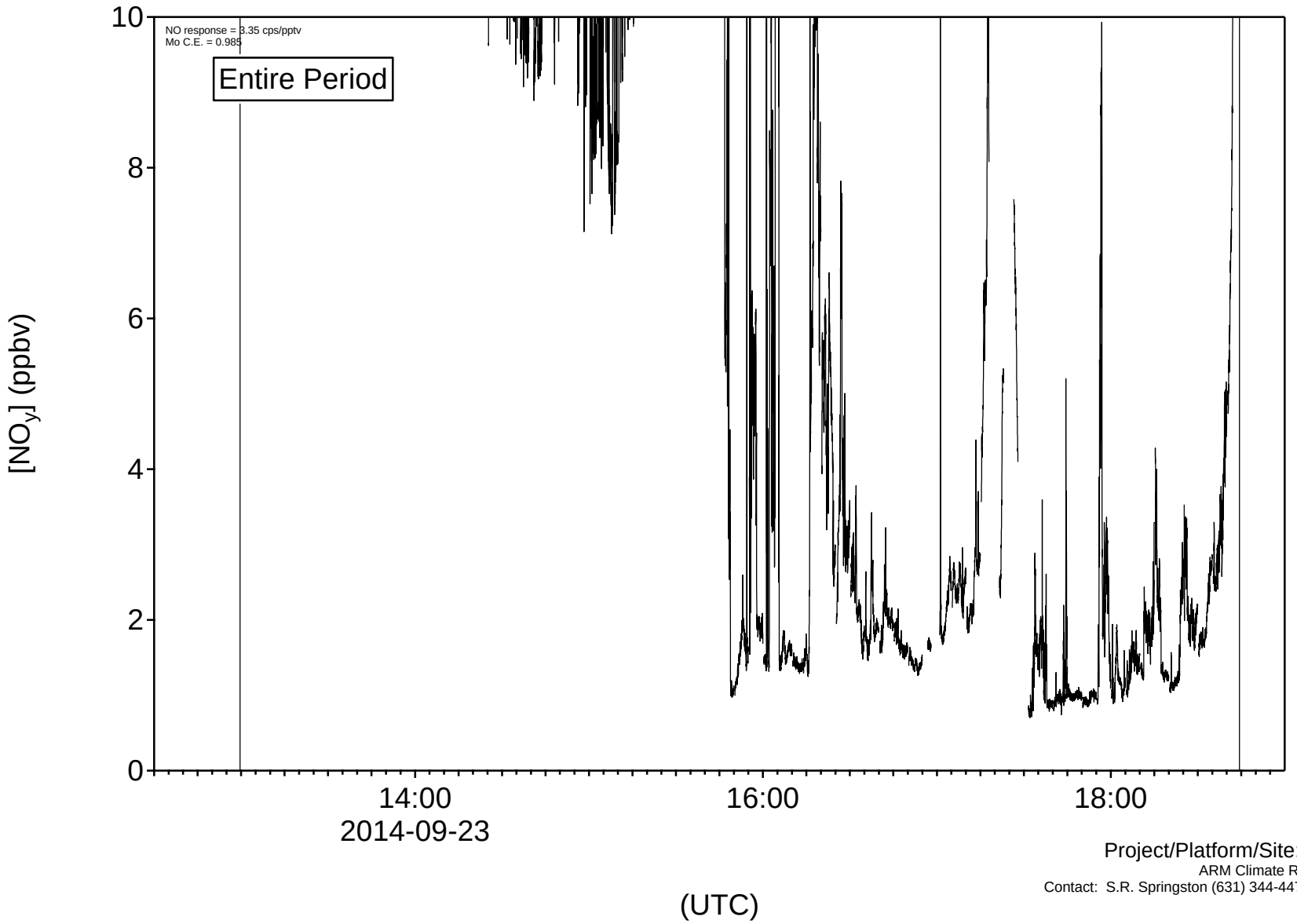

AAF 3-Channel NOx Analyzer
Housekeeping 1
PMT HV
HV_1, HV_2, HV_3 (V)
Status HV_control byte
2000
1950
1900
1850
1800
1750
1700
8
6
4
2
0
14:00
2014-09-23
16:00
18:00
(UTC)
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF TEI 146i Calibrator
State



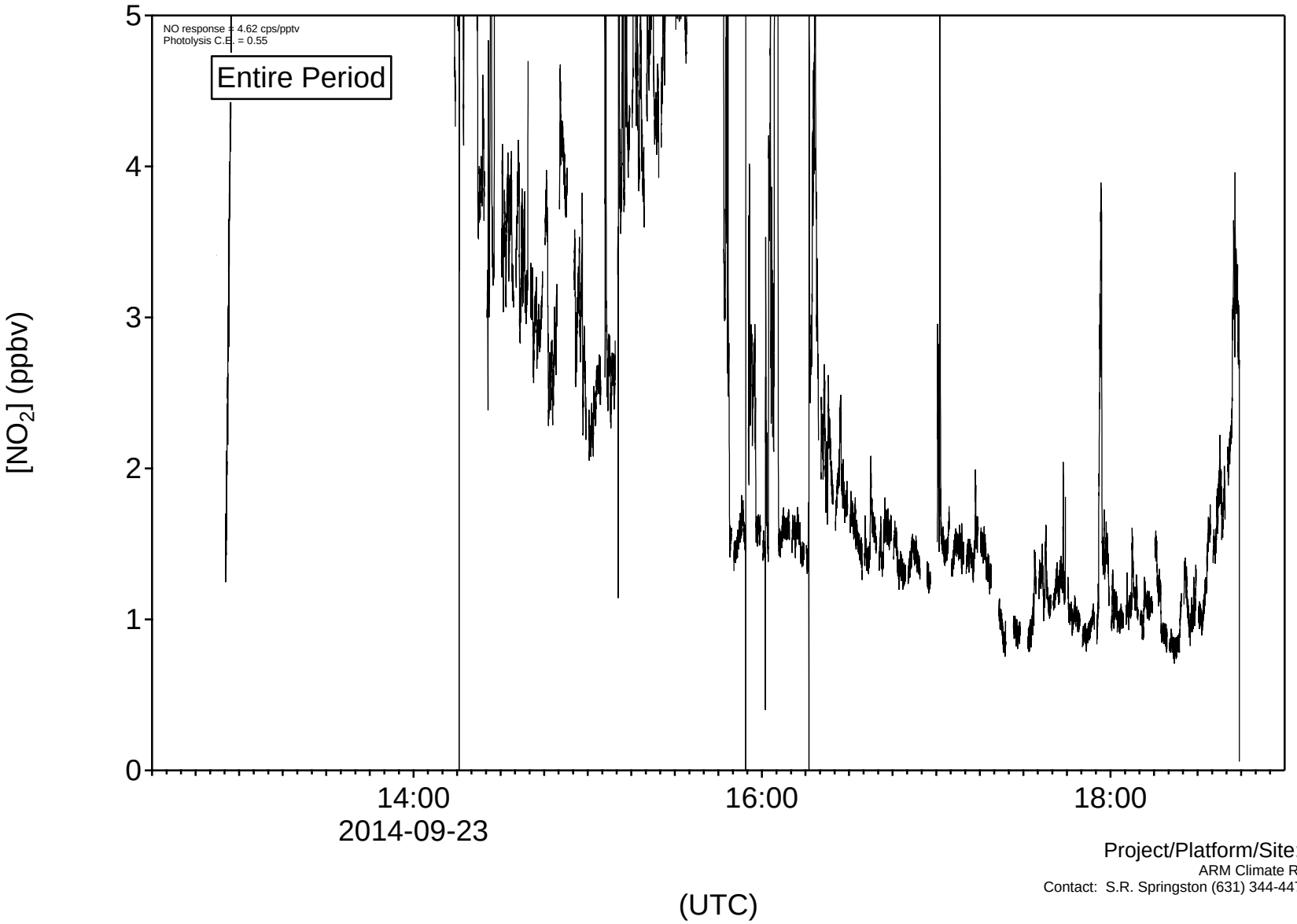
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF 3-Channel NO_x Analyzer
Processed NO_y Channel Data



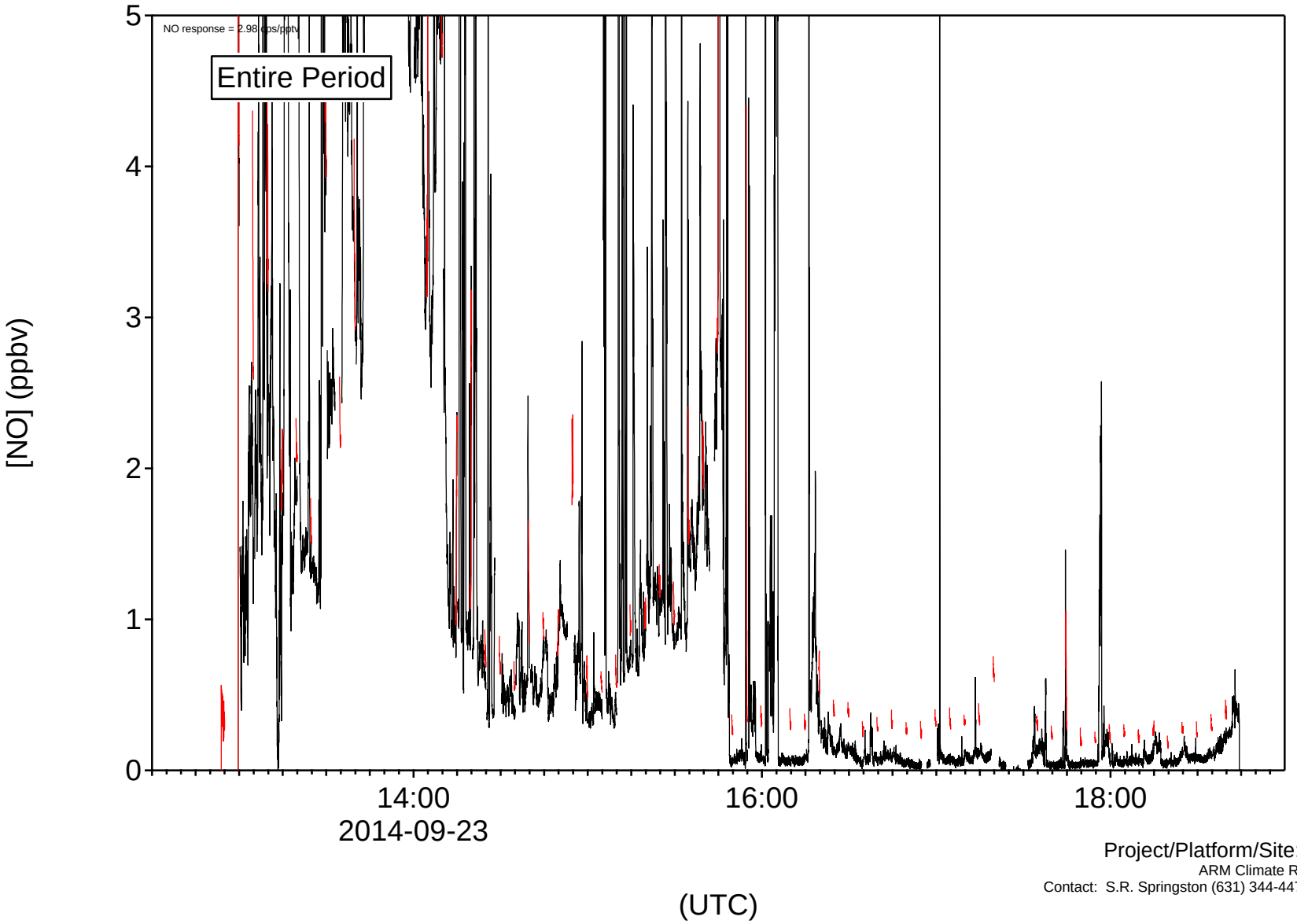
Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF 3-Channel NO_x Analyzer
Processed NO_2 Channel Data



Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

AAF 3-Channel NO_x Analyzer
Processed NO Channel Data



Project/Platform/Site: maoaafa1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov