

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

Loading from flight 140307a
Data taken from NOx CPU c:\data\NOx

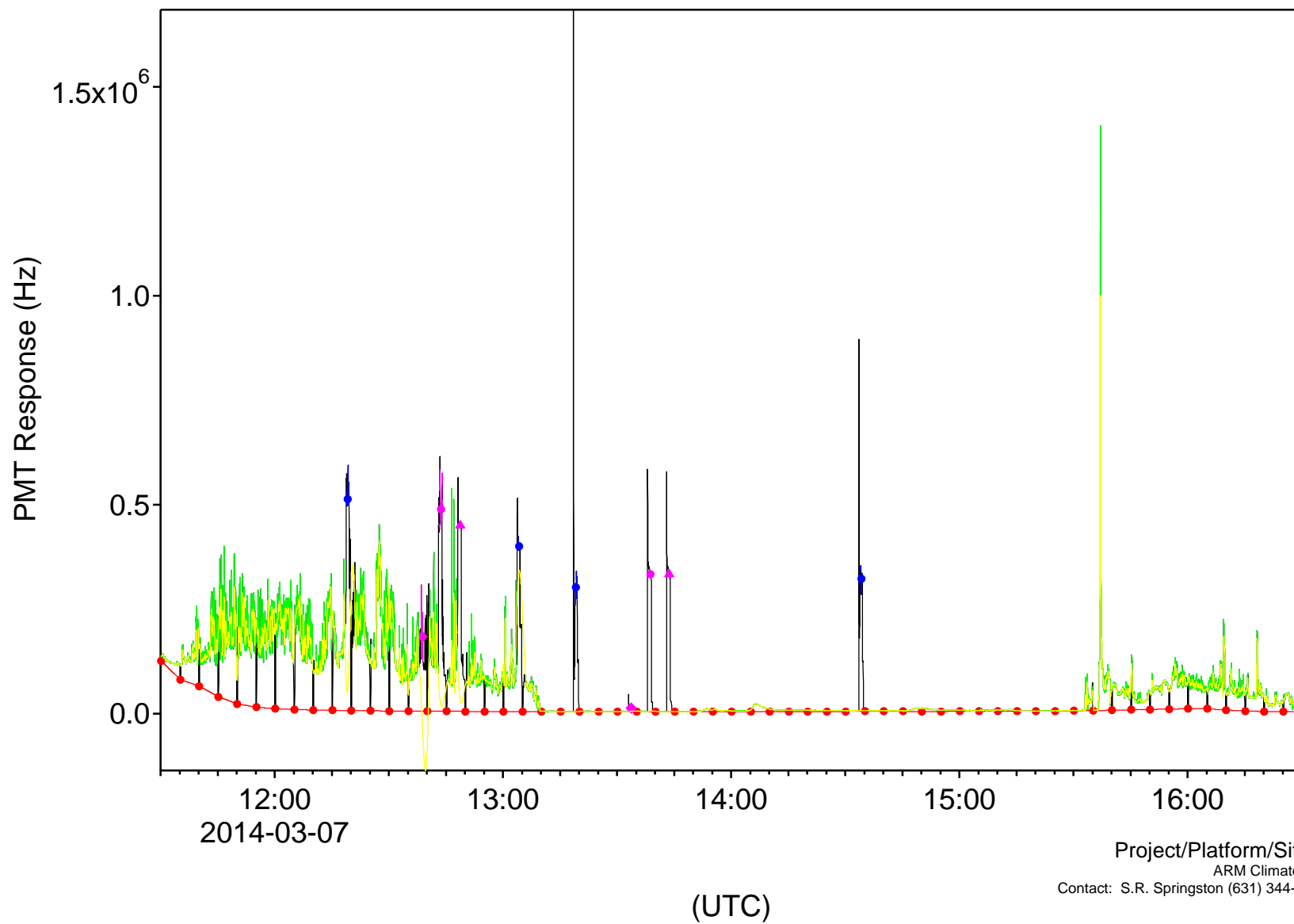
Data in flight appear normal.

It has been observed that the NO/NO₂ ratios do not appear reasonable at low levels (<500 pptv). The zero on the NO channel appears erroneously high. This affects both the NO and the NO₂ results at low values. These data are only preliminary.

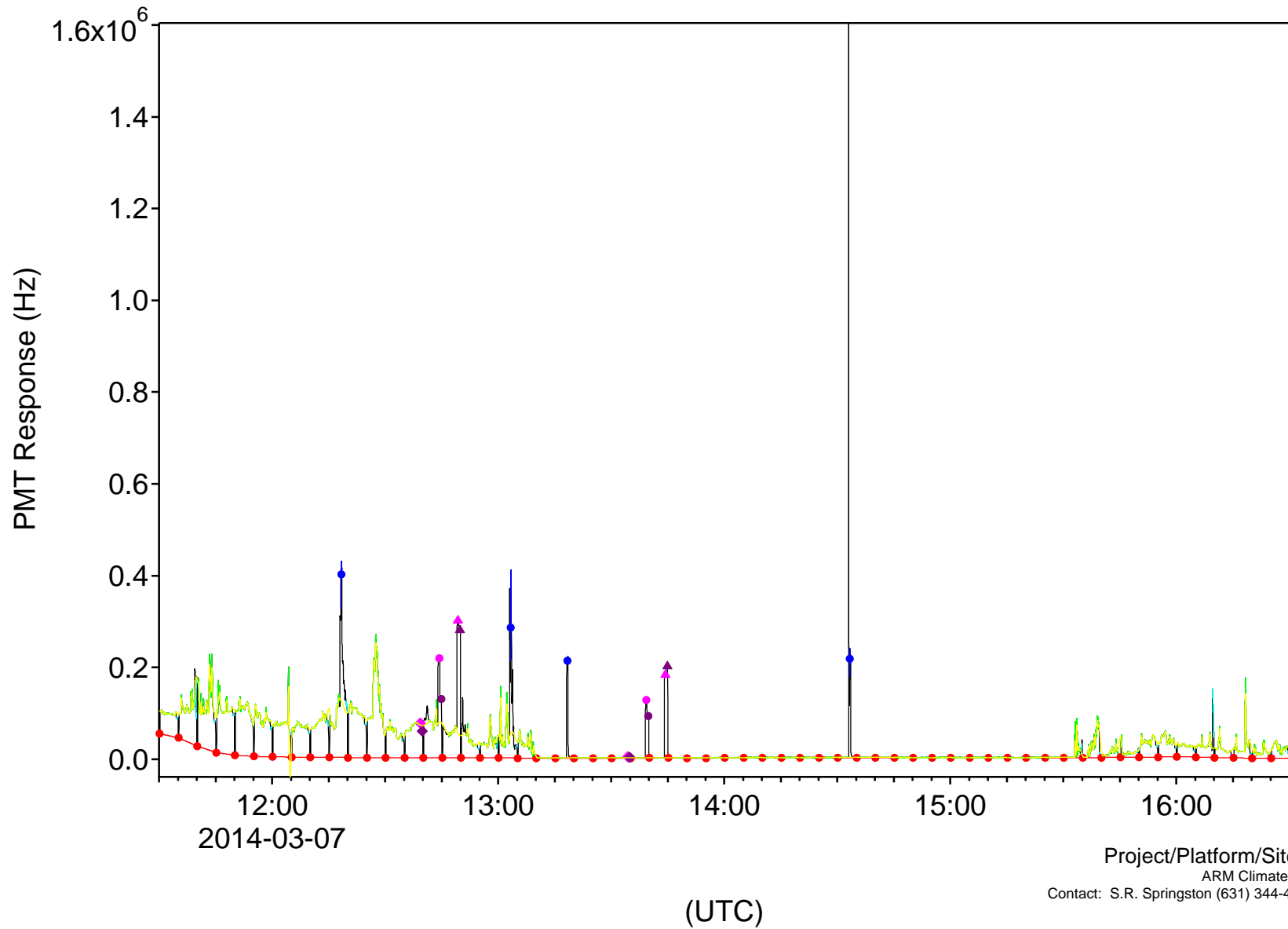
To attempt to lower the NO₂ background, on 3/4/2014, the NO₂ photolysis cell was disassembled and cleaned. The parts were inspected and no visible dirt was observed. The white ODM teflon had a distinct acrid odor. All parts were wiped down with ChemWipes and D.I. water. Odor indelectable after cleaning. Unit was reassembled. However, the offset remains.

Prior to the 3/7 flight, the Mo was baked out for ~10 min at 400 C in air. The spike signals in NO_y observed on the ground are originating at the Mo converter. They go away when Mo heat is turned off. They are not correlated with heater cycling. They go away once air is flowing over the inlet. The window blank was observed to have been recently paint.

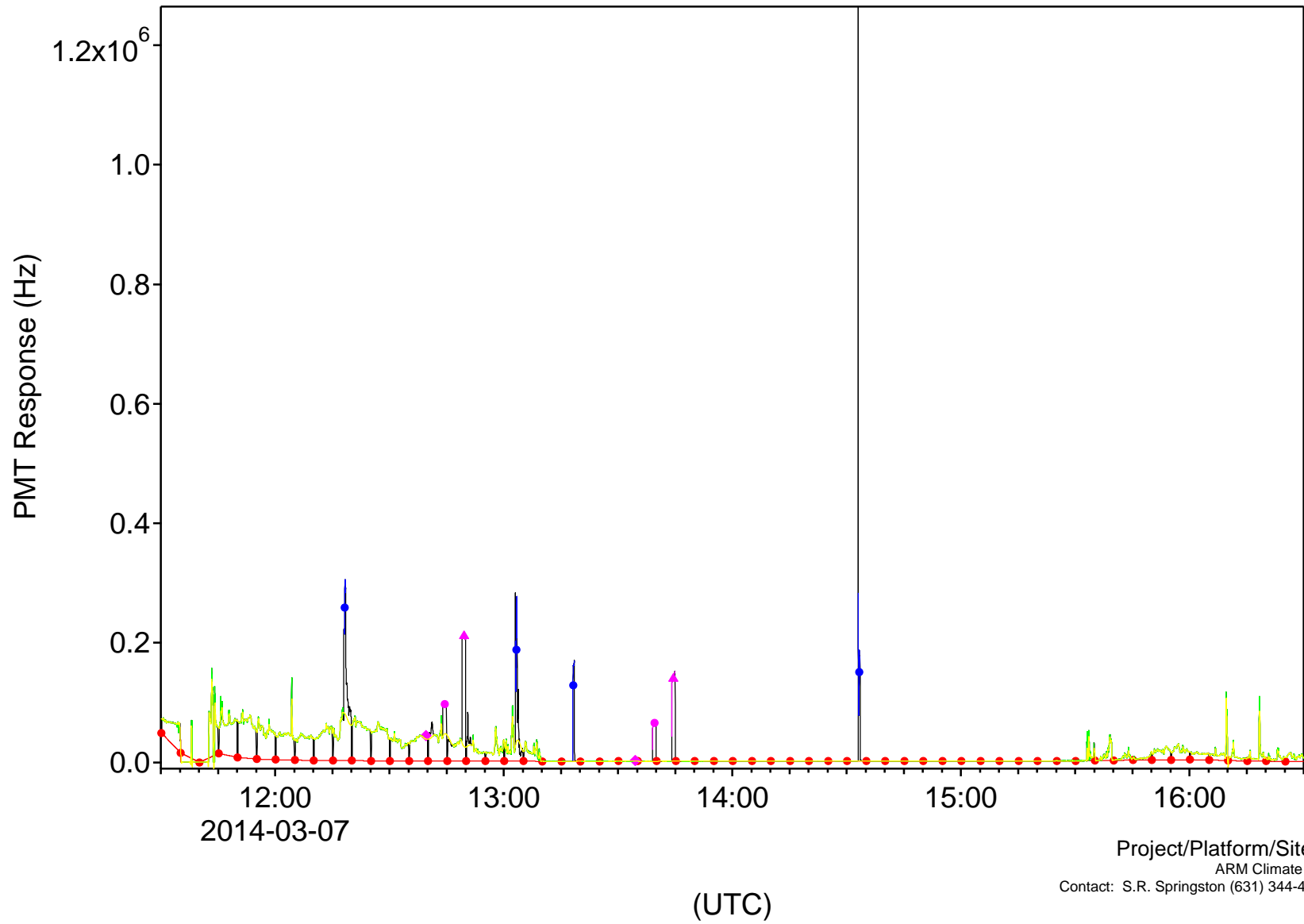
AAF 3-Channel NO_x Analyzer
Parsed NO_y Channel Data



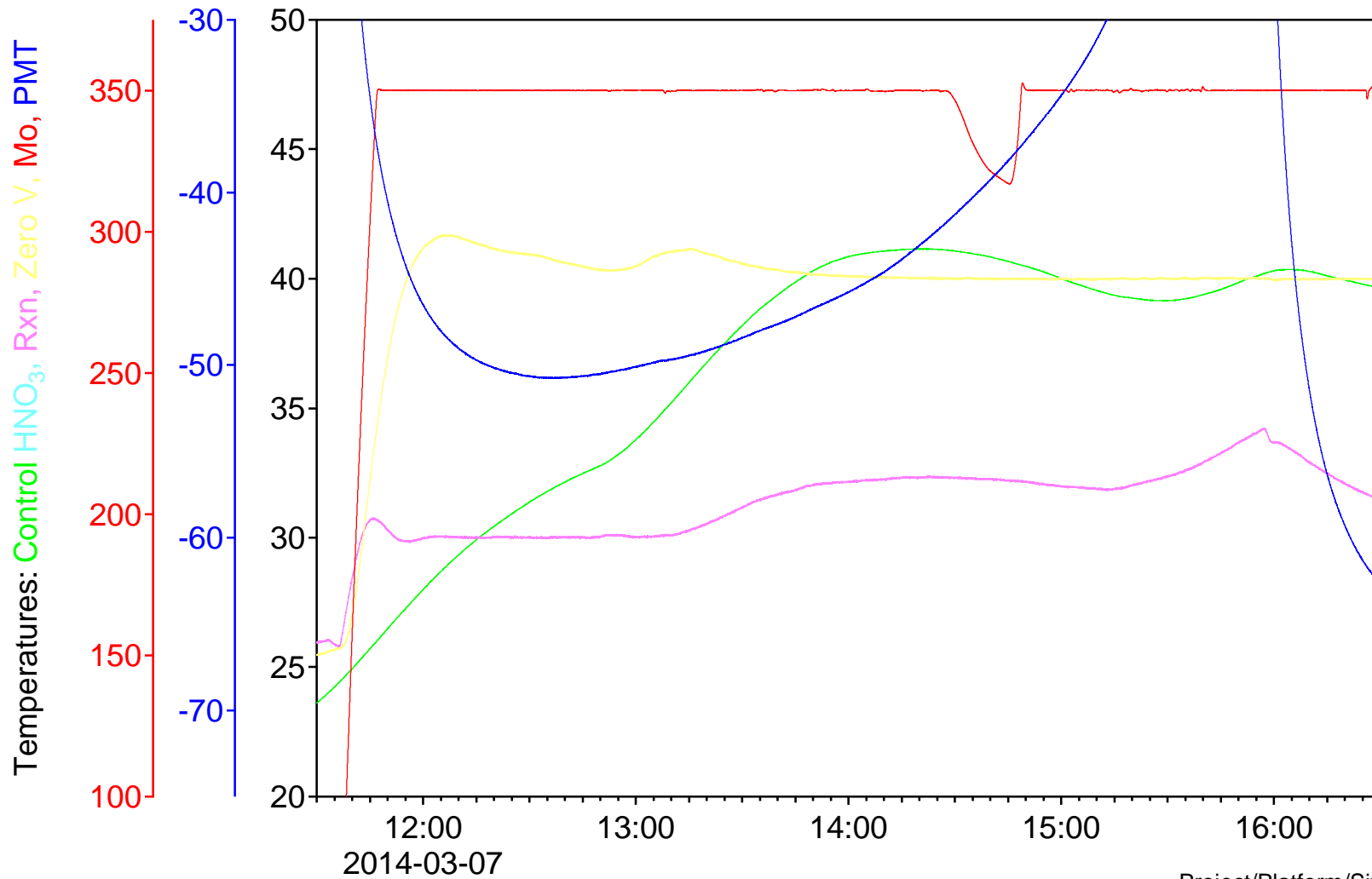
AAF 3-Channel NO_x Analyzer
Parsed NO_x Channel Data



AAF 3-Channel NO_x Analyzer
Parsed NO Channel Data



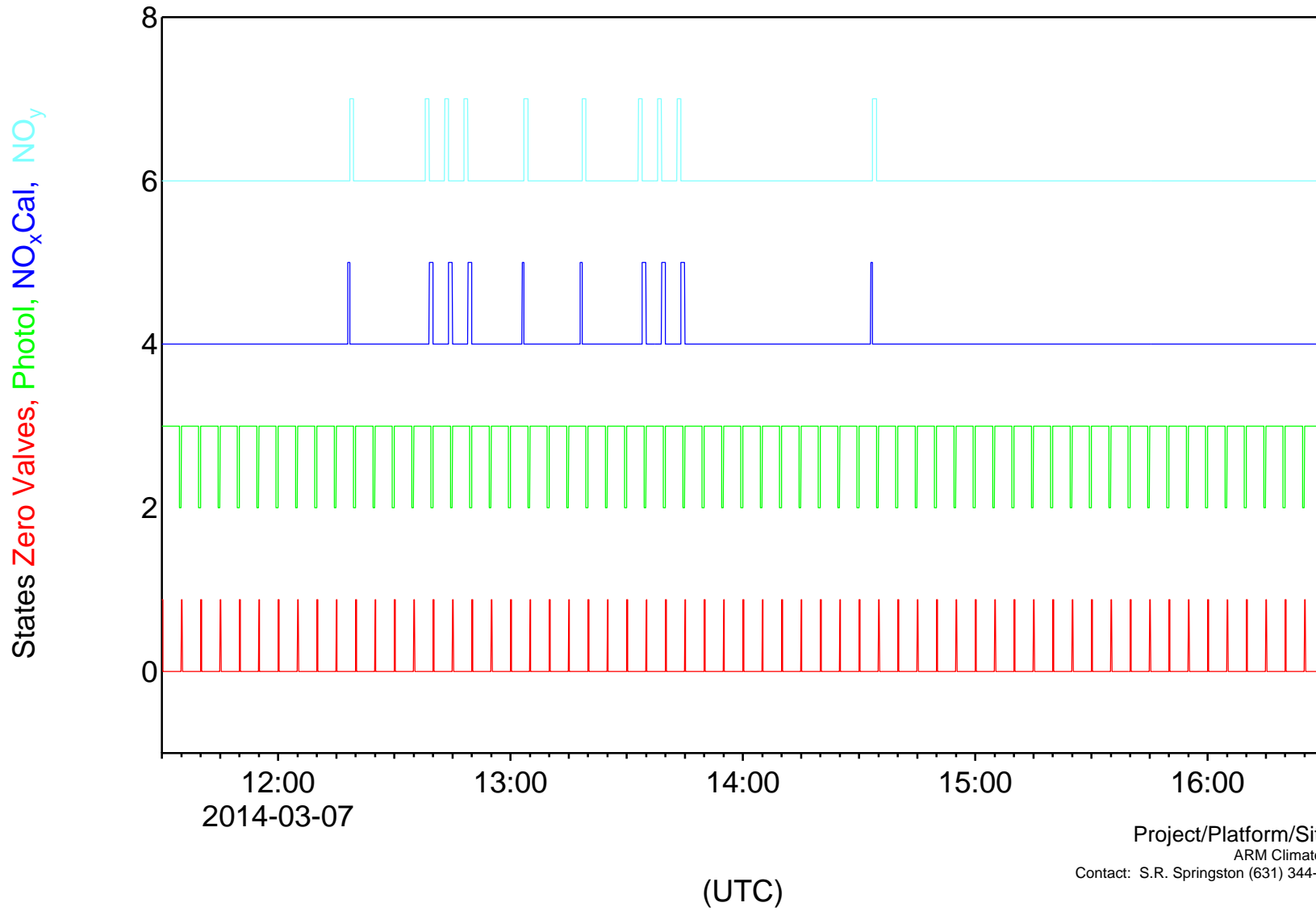
AAF 3-Channel NO_x Analyzer
Housekeeping T
Temperatures



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

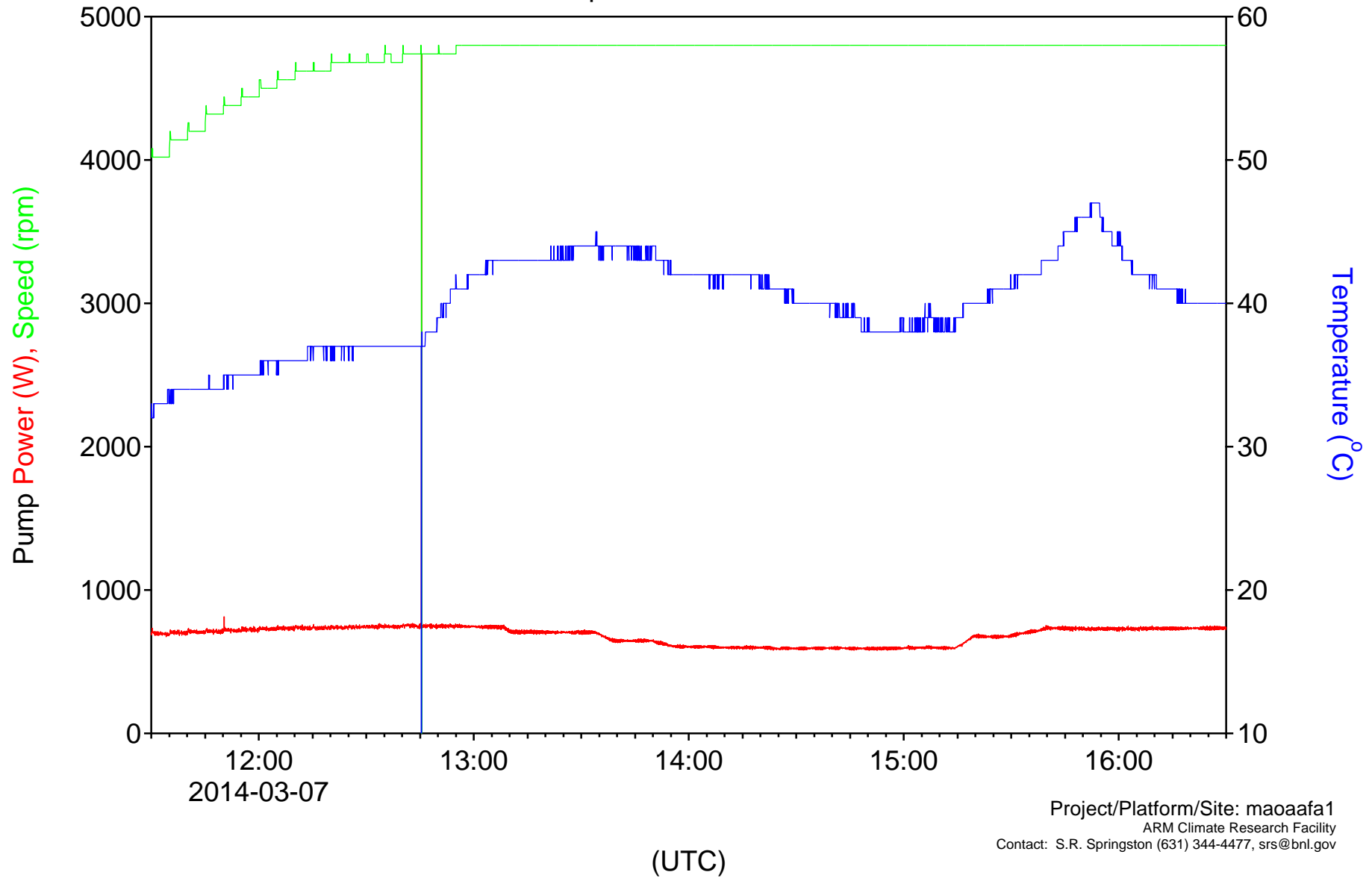
(UTC)

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

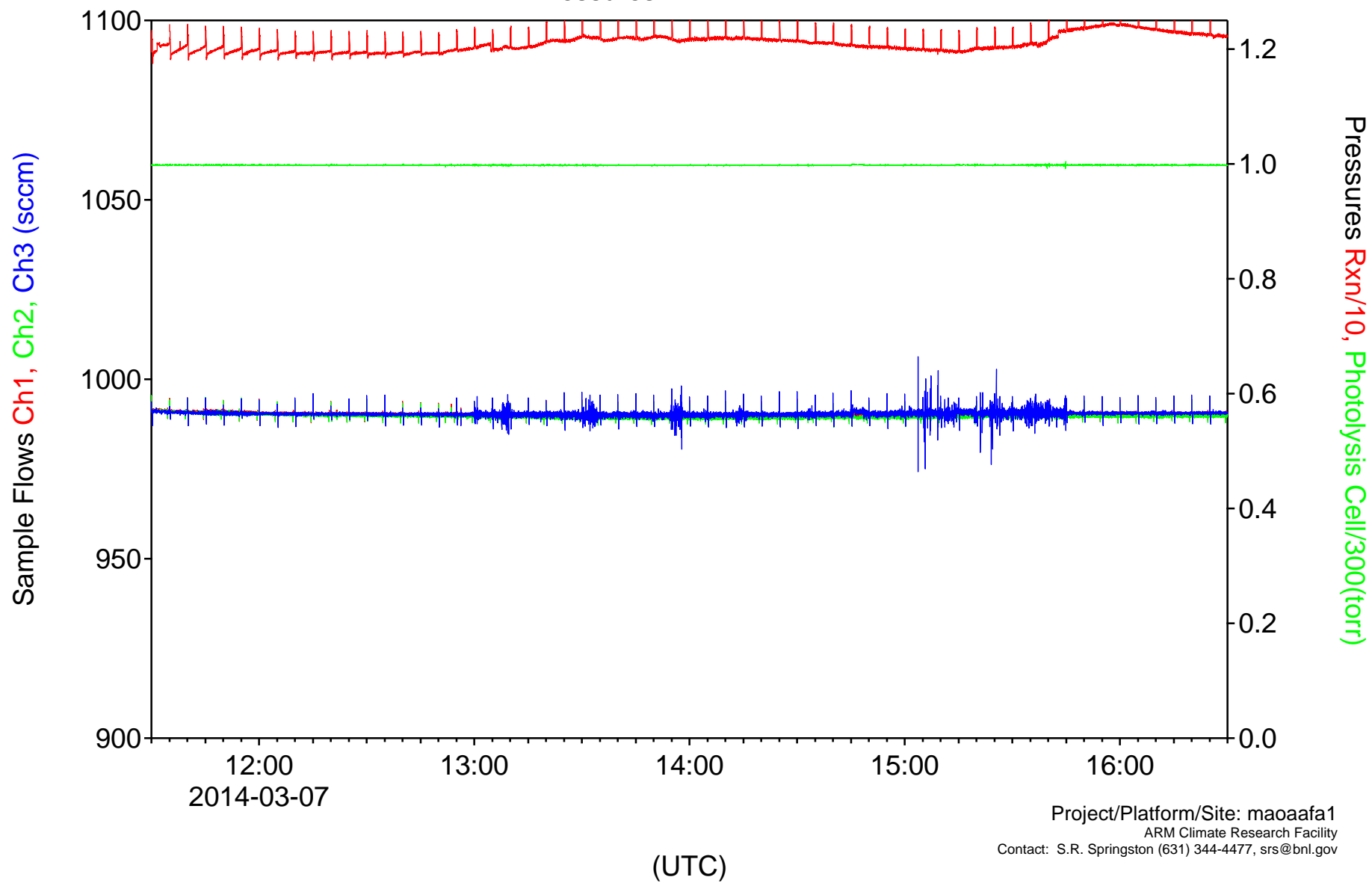


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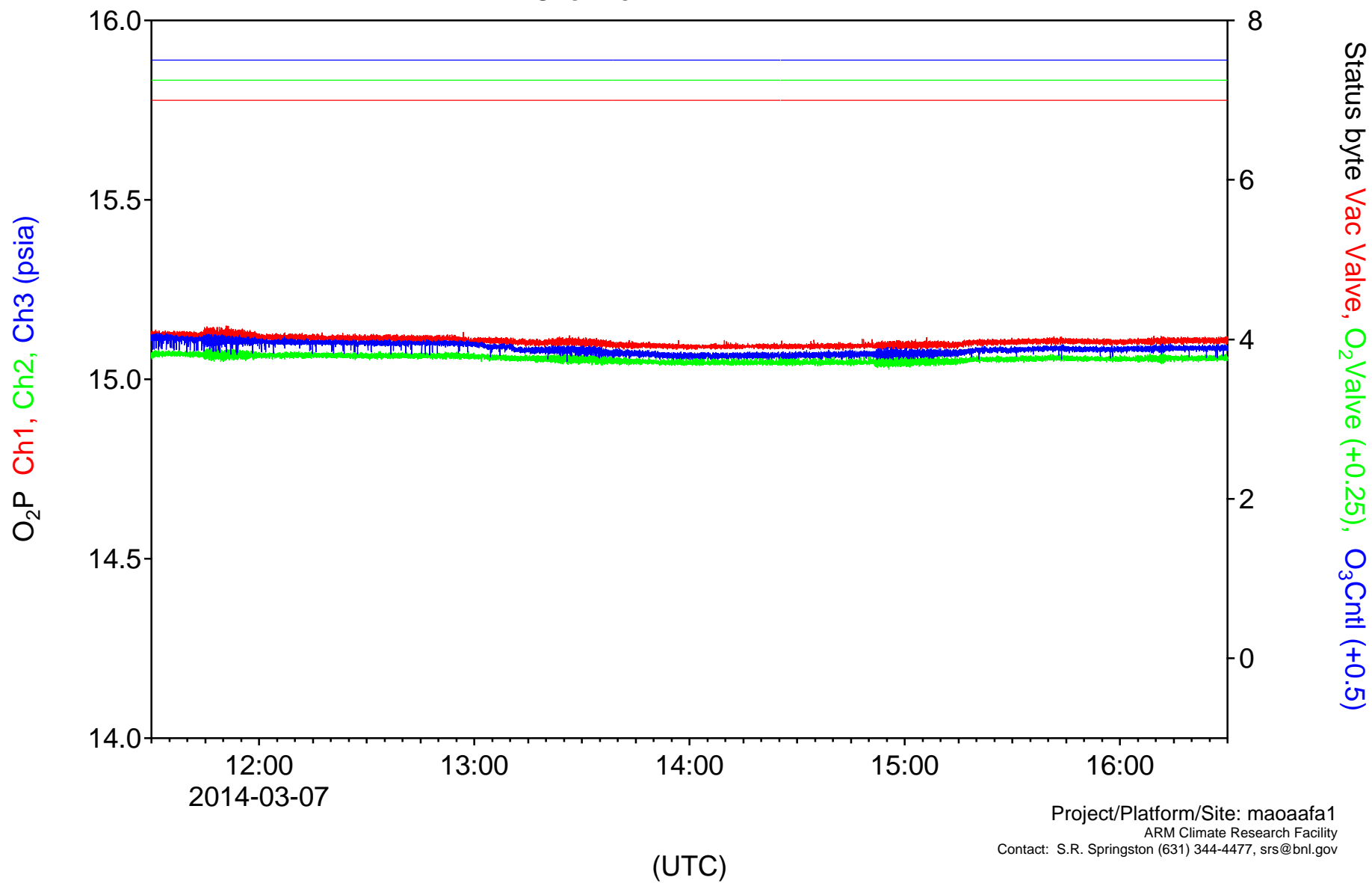
AAF 3-Channel NO_x Analyzer
Housekeeping 4
Pump



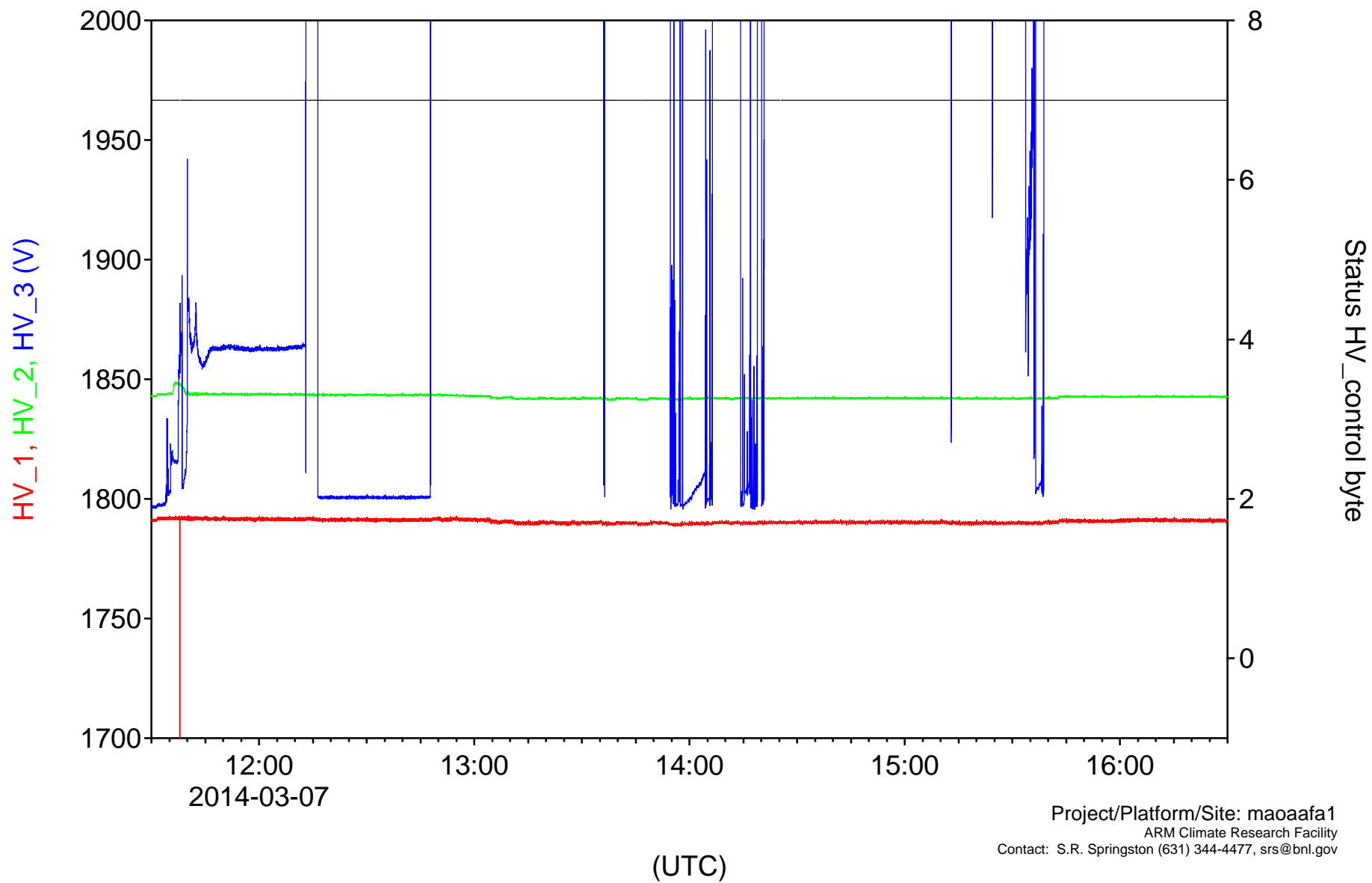
AAF 3-Channel NO_x Analyzer
Housekeeping 3
Pressures



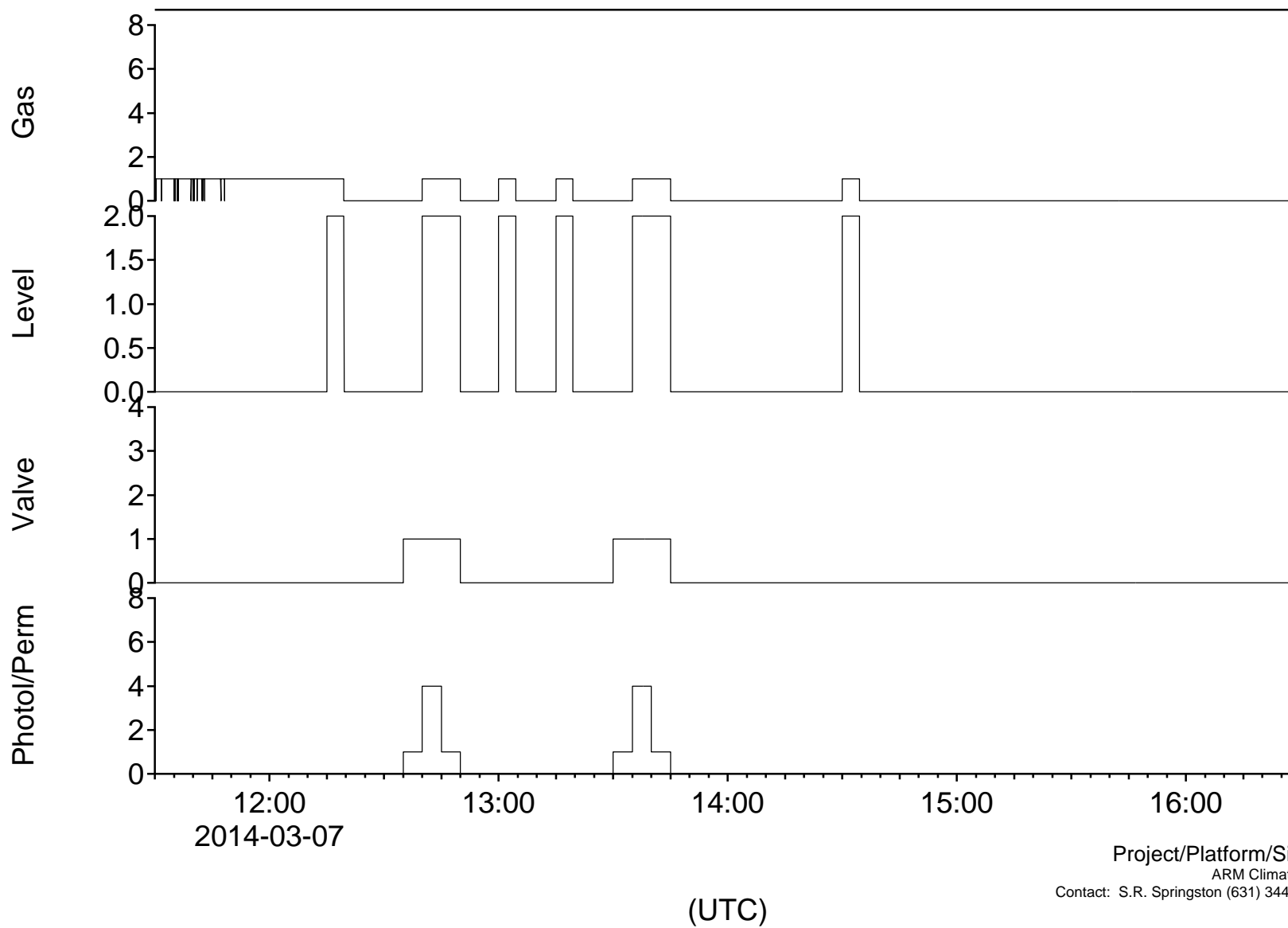
AAF 3-Channel NO_x Analyzer
Housekeeping 2
Ozonizer



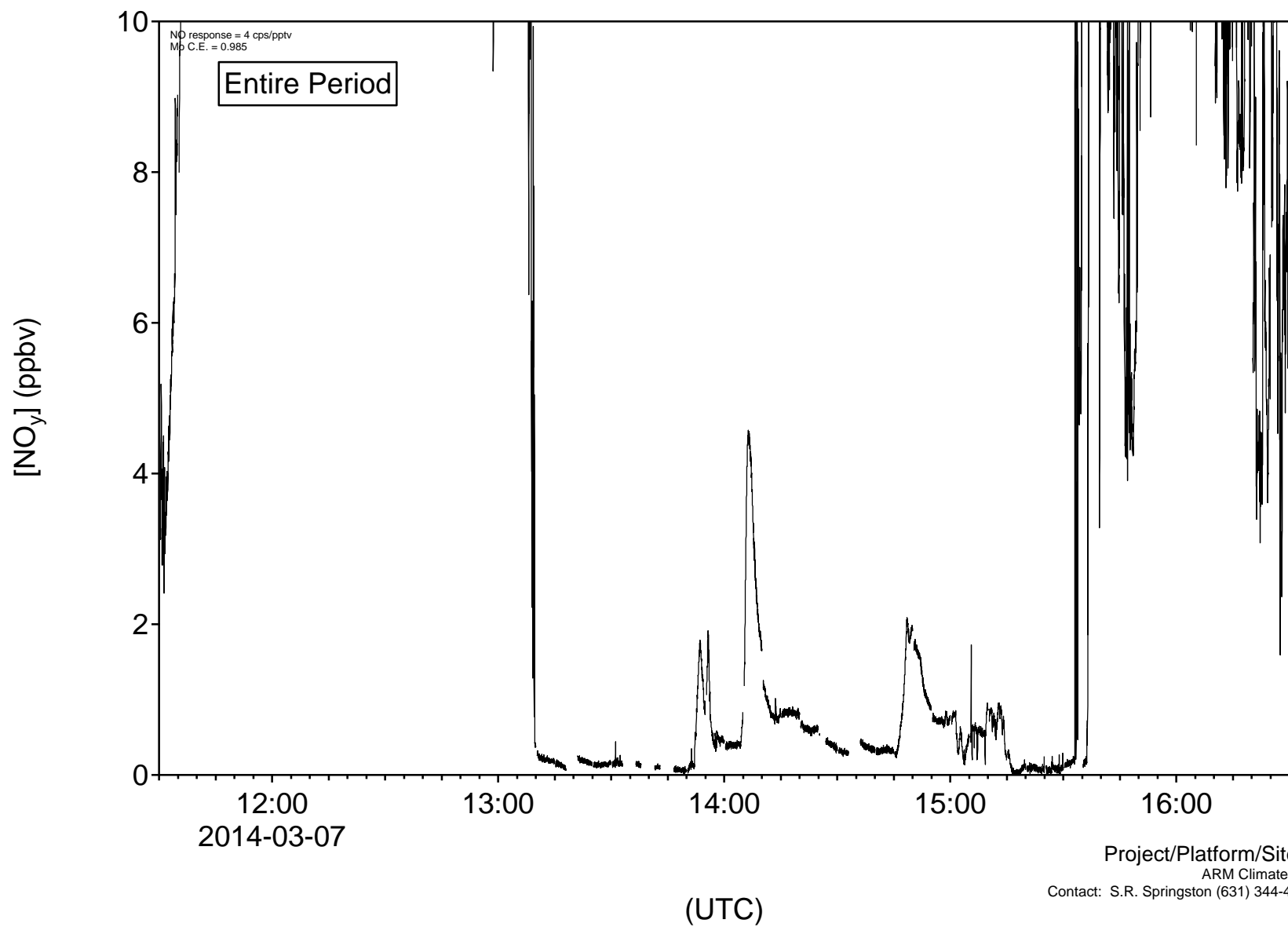
AAF 3-Channel NO_x Analyzer
Housekeeping 1
PMT HV



AAF TEI 146i Calibrator State

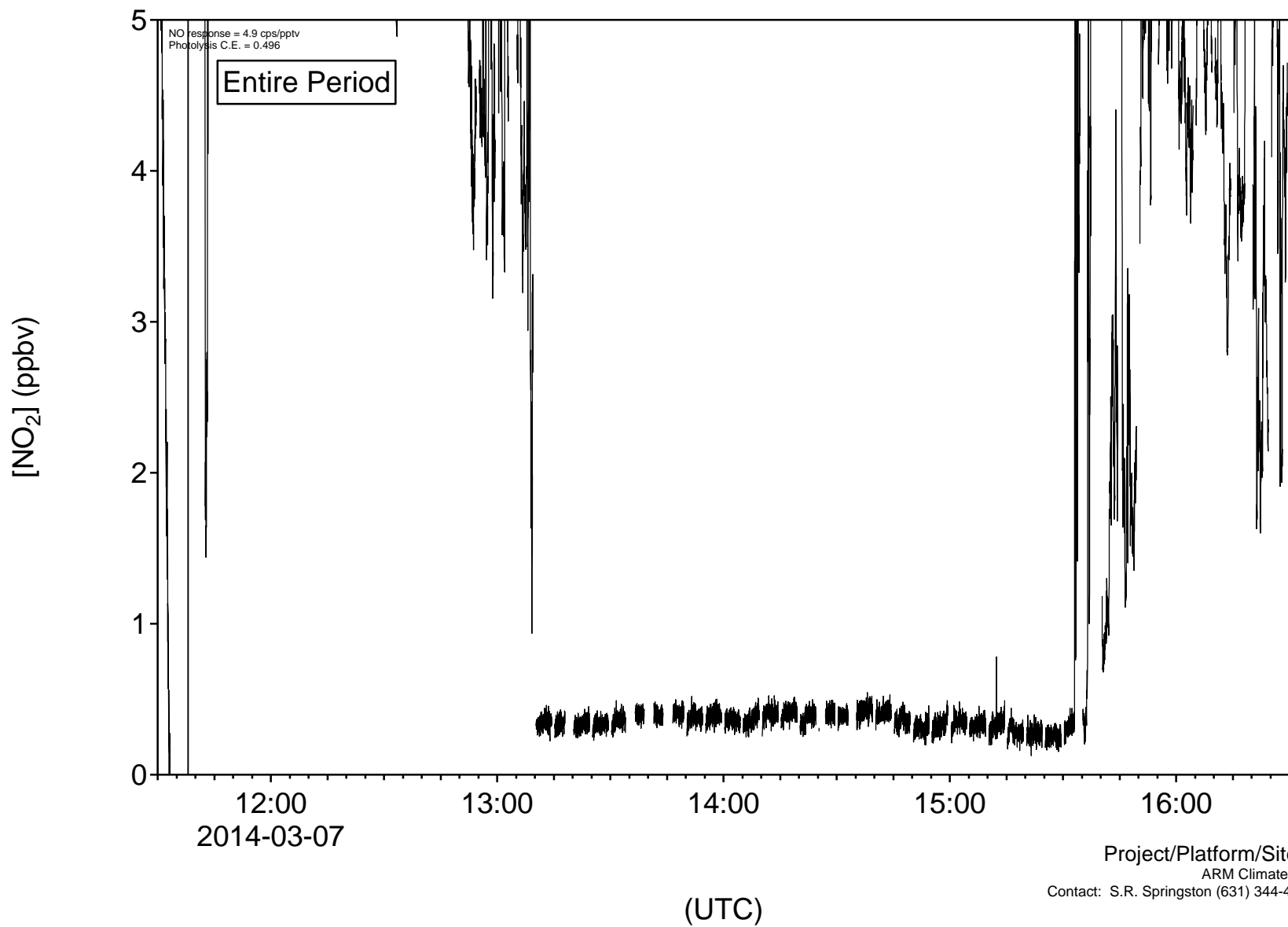


AAF 3-Channel NO_x Analyzer
Processed NO_y Channel Data



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AAF 3-Channel NO_x Analyzer
Processed NO₂ Channel Data



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AAF 3-Channel NO_x Analyzer
Processed NO Channel Data

