

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

Loading from 2014-06-01 - 2014-07-01

Data taken from DMF, untarred, unzipped and renamed back to original file names

It was noted that BOTH TEI 42i's lost their internal Mass Flow Meters. This was not consequential as the inlet has much better Mass Flow Controllers.

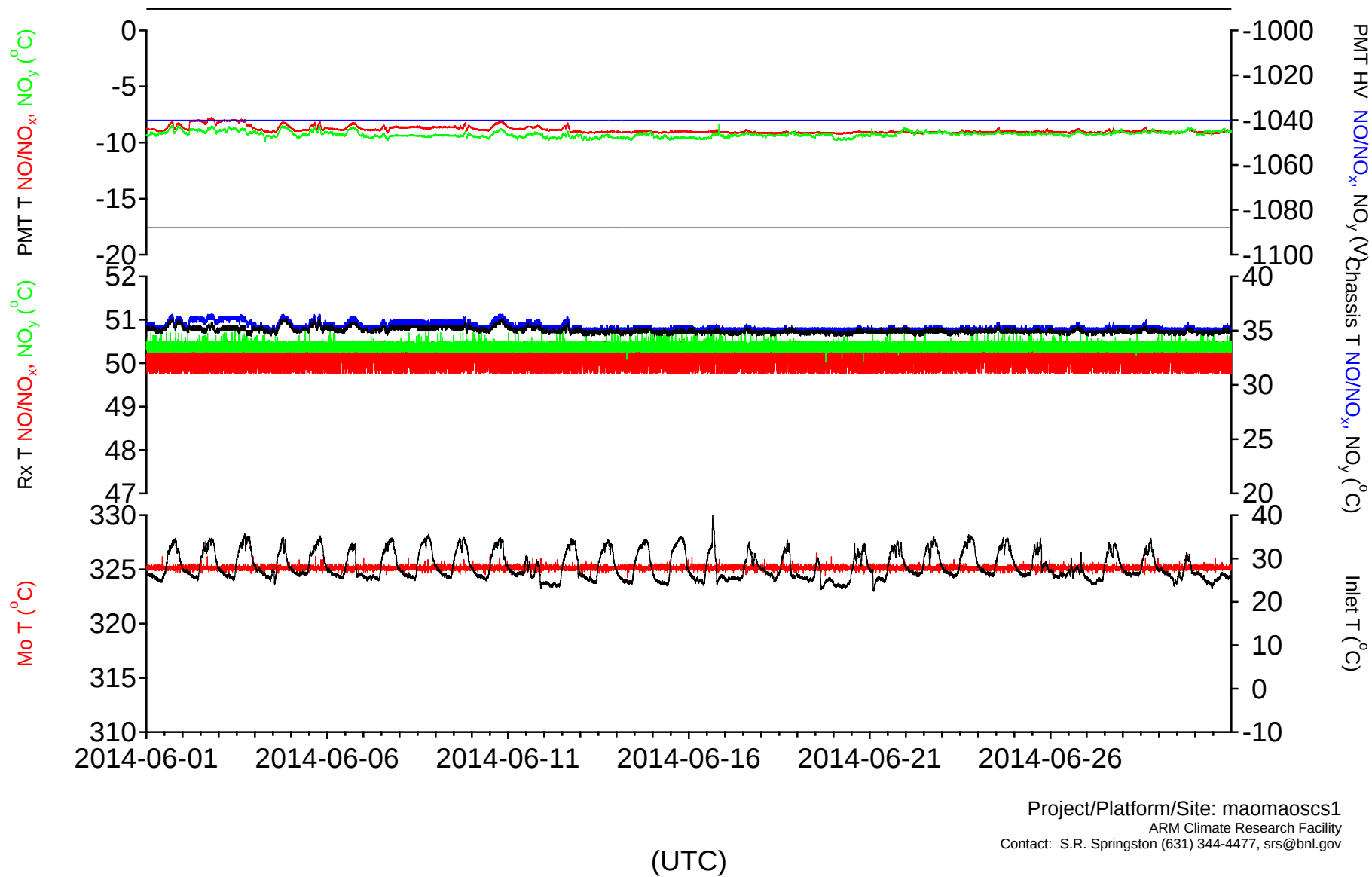
The NO_x photolysis cell began working this month (to the Mentor's great surprise) at 2014-06-18 06:38 albeit at lower efficiency (0.22). Earlier data was not reported:

no2_final[0,106061]=nan

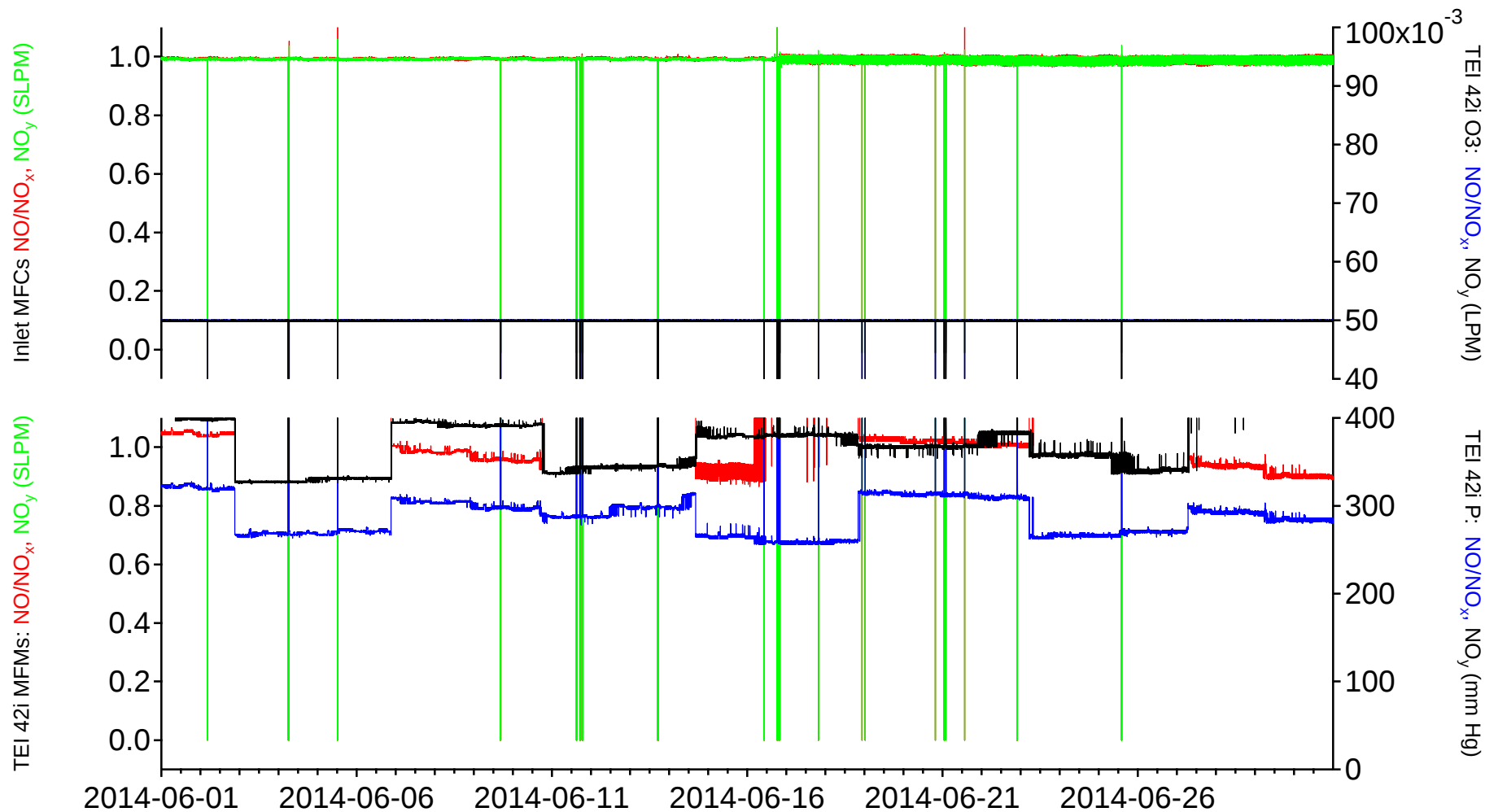
NO₂ Data appear valid but should be viewed with higher uncertainties than usual.

Ambient NO and NO_y data appear reasonable.

Ground-Based NO_x Analyzer
Housekeeping 2
Temperatures



Ground-Based NO_x Analyzer
Housekeeping 1
Flows & Pressures

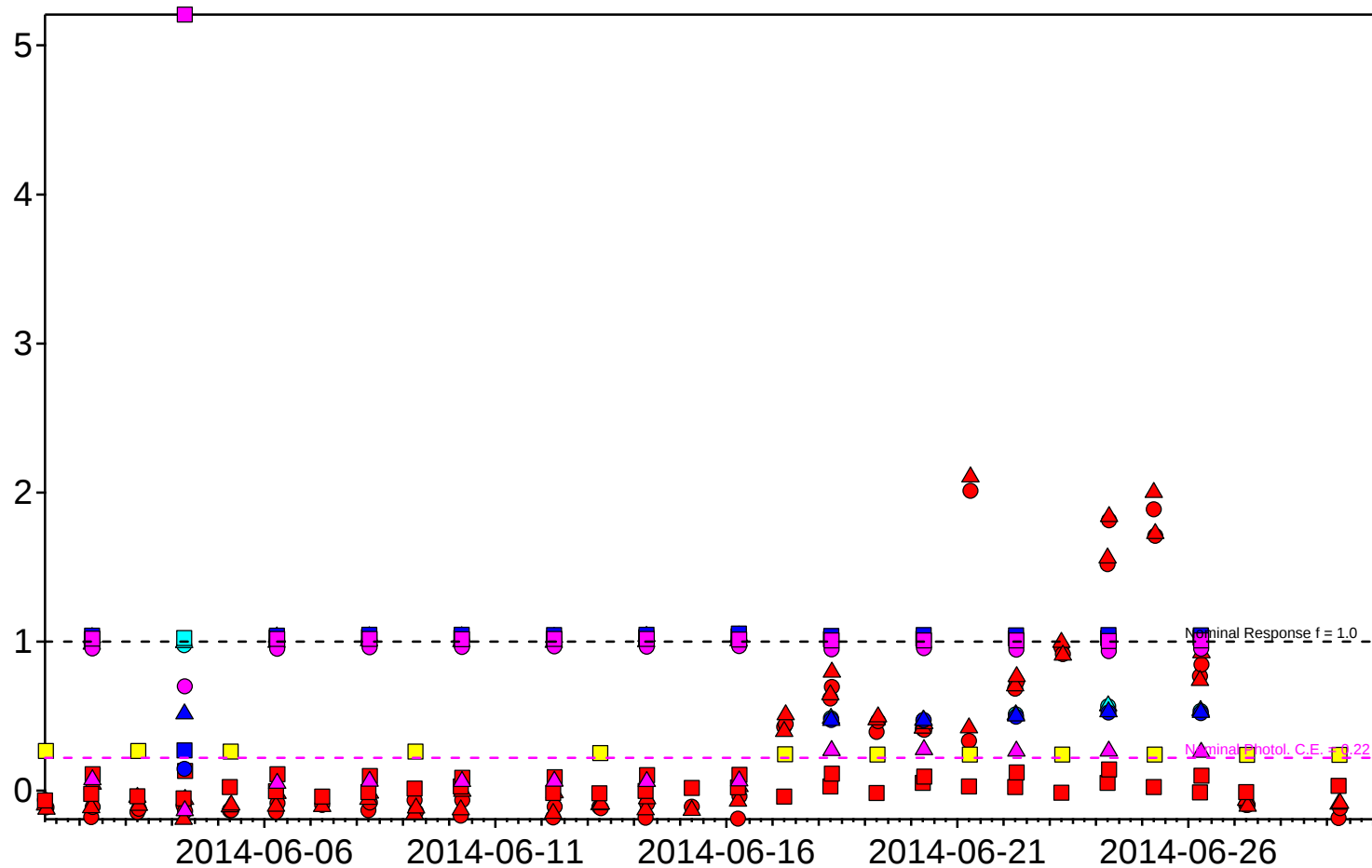


(UTC)

Project/Platform/Site: maomaoscs1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

○ - NO Channel ; △ - NO_x Channel; □ - NO_y Channel
 Zero Air Equivalent Signal (ppbv)
 S.A. #1 (calibrated sig/dilution conc: [SA#1] = 20.8 ppbv)
 S.A. #2 (calibrated sig/dilution conc: [SA#2] = 82.86 ppbv)
 GPT + SA #2 (NO: frac titr., NO_x: Photol. C.E. (nom=0.22), NO_y: Mo C.E. (nom=1.03))
 HNO₃ cal. (calibrated sig/perm conc: [HNO₃] = 68.9 ppbv)

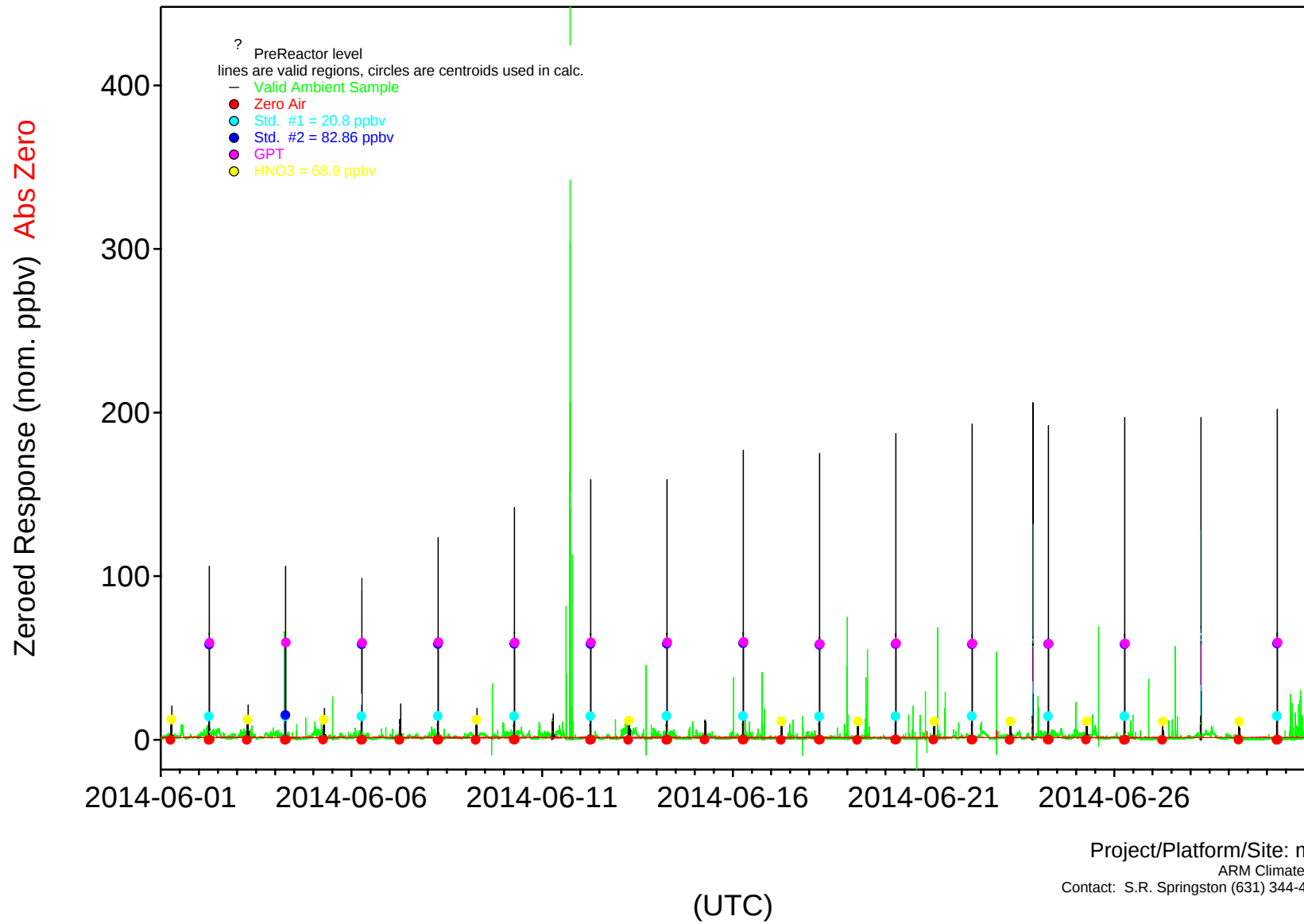
Ground NO_x Analyzer Calibration Data



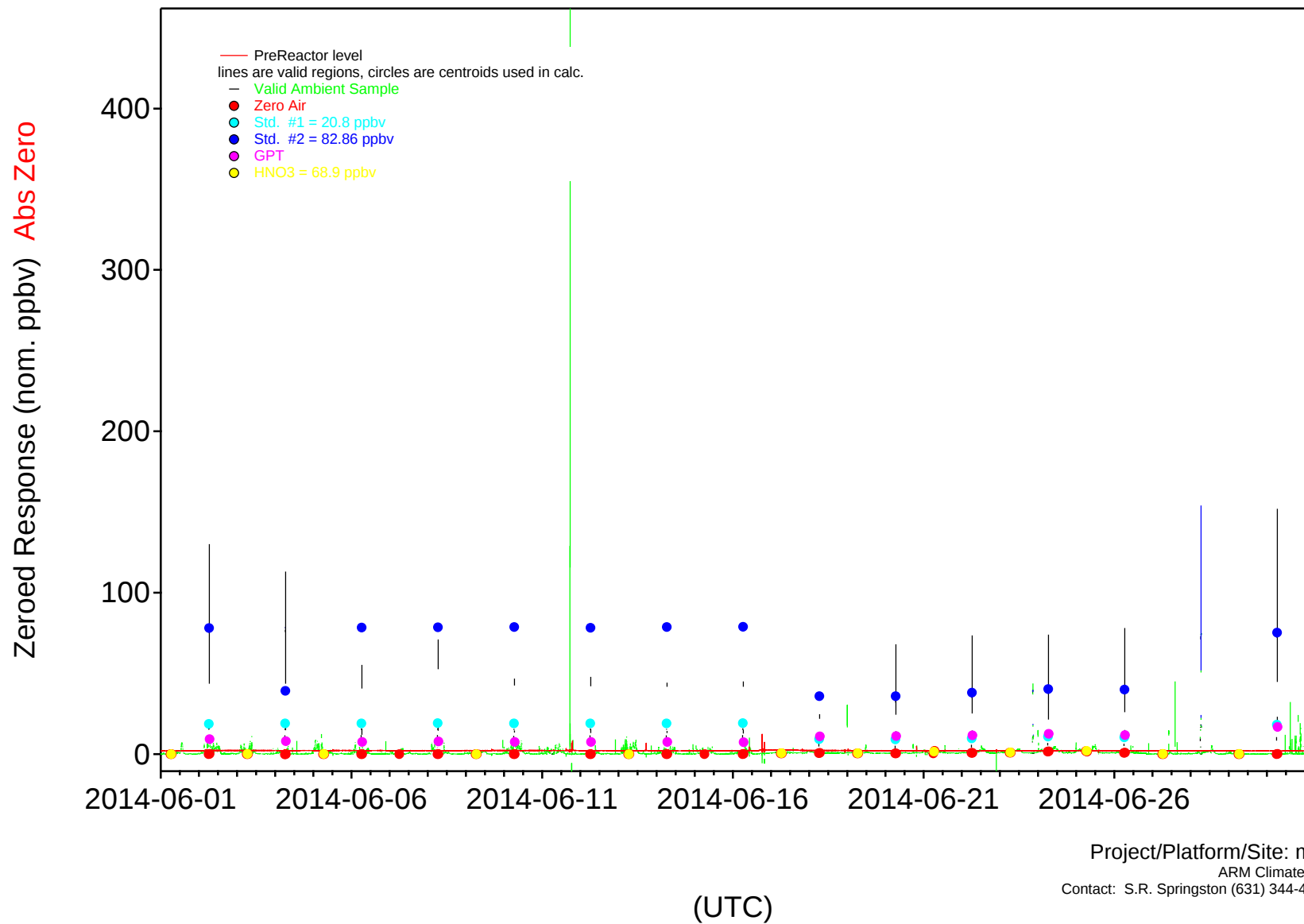
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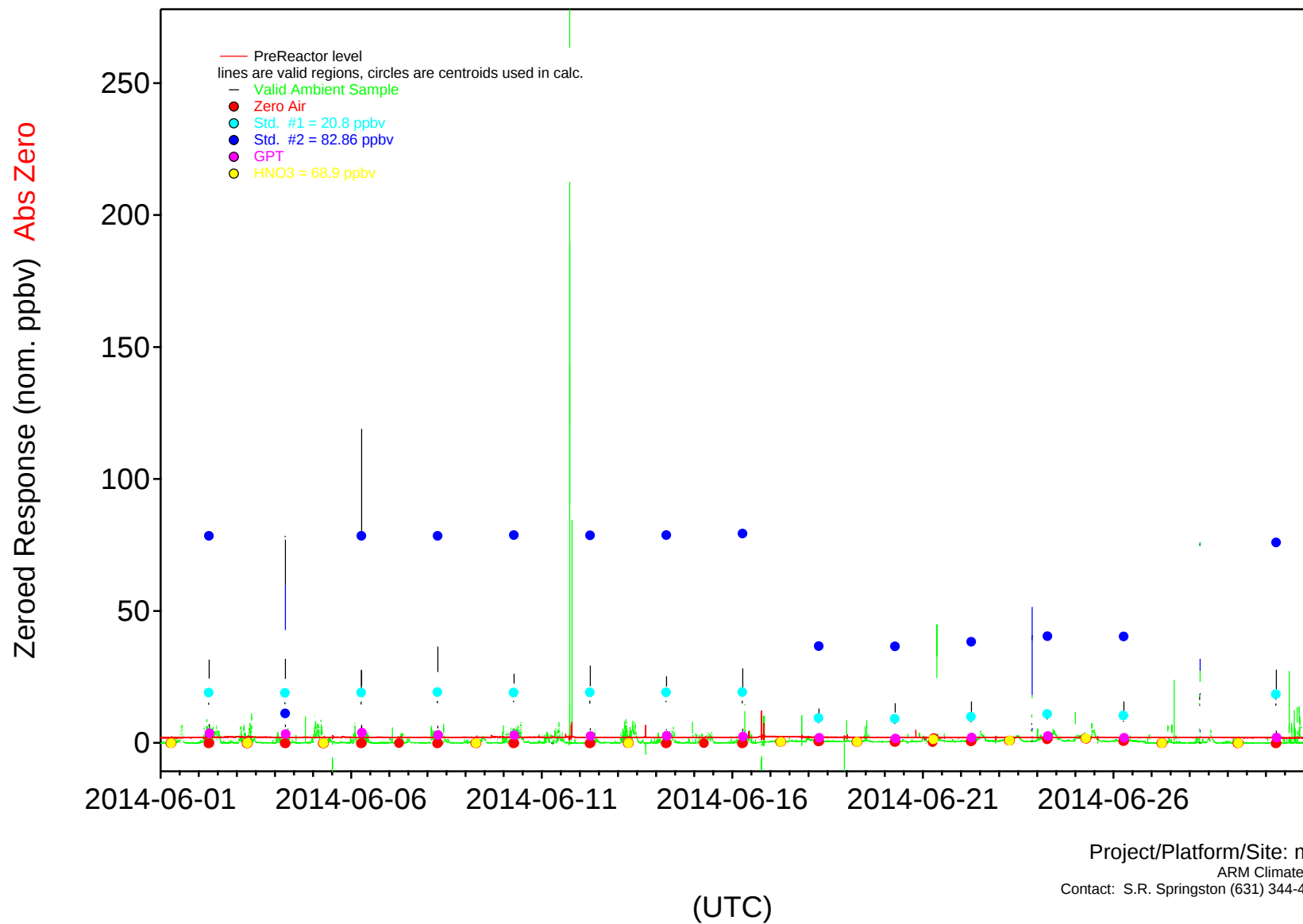
Ground NO_x Analyzer Parsed NOy Channel Data



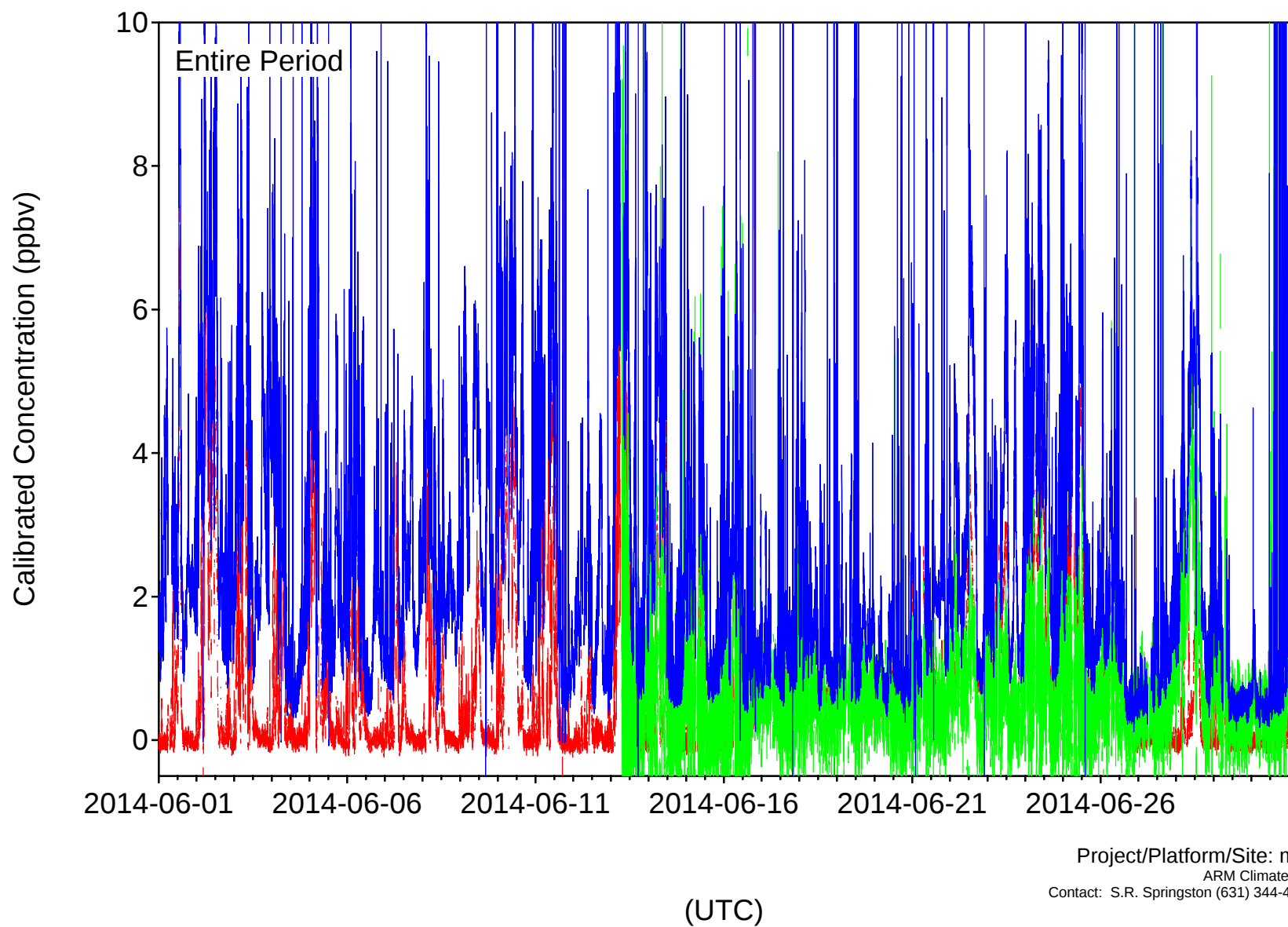
Ground NO_x Analyzer Parsed NOx Channel Data



Ground NO_x Analyzer Parsed NO Channel Data

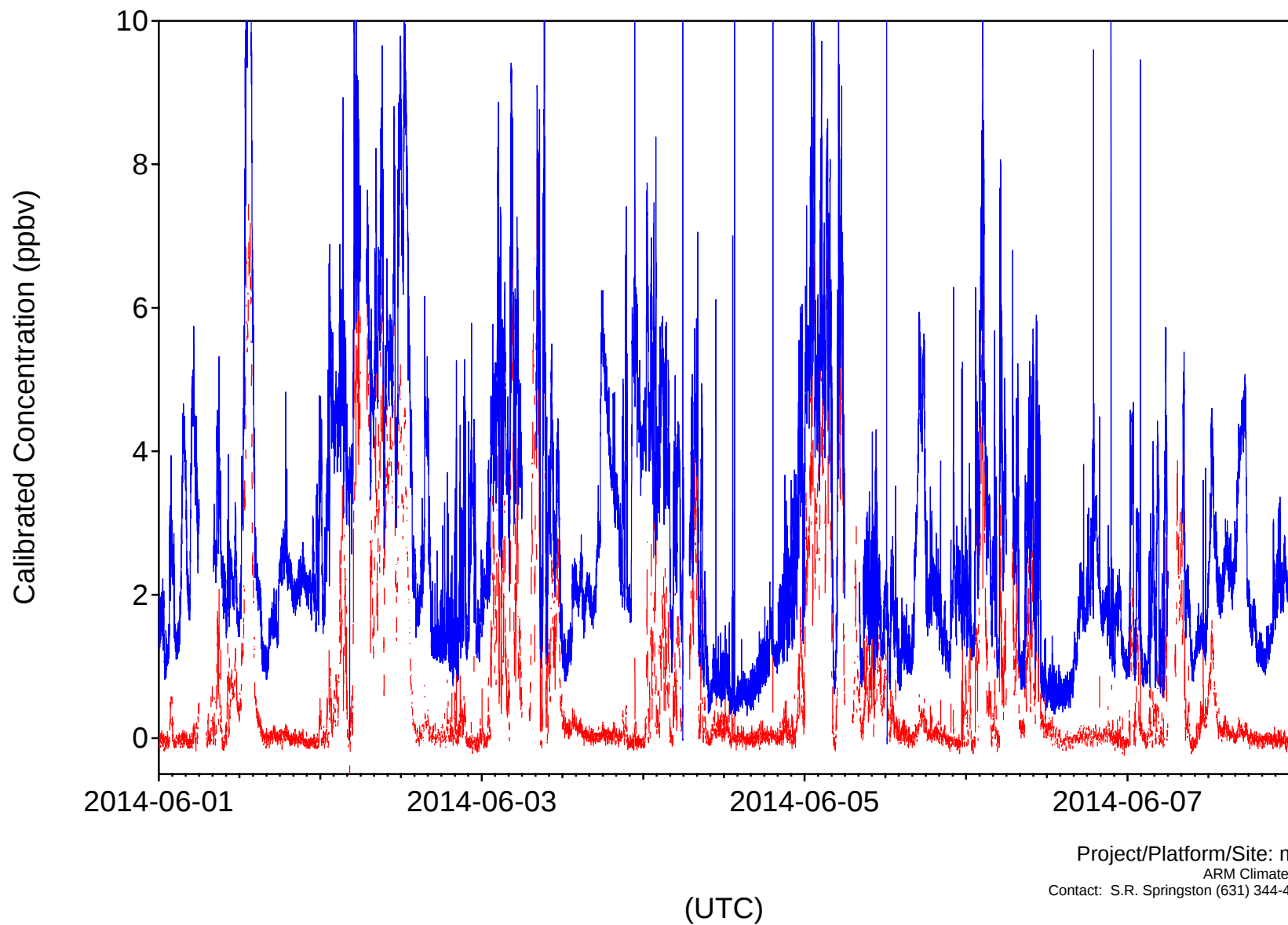


Calibration Factors Used:
NO: 1.069 ([calibrated]/[inst. reported])
NO₂: 1.09 ([calibrated]/[inst. reported]), C.E. = 0.22
NO_y: 1.478 ([calibrated]/[inst. reported]), C.E. = 1.03

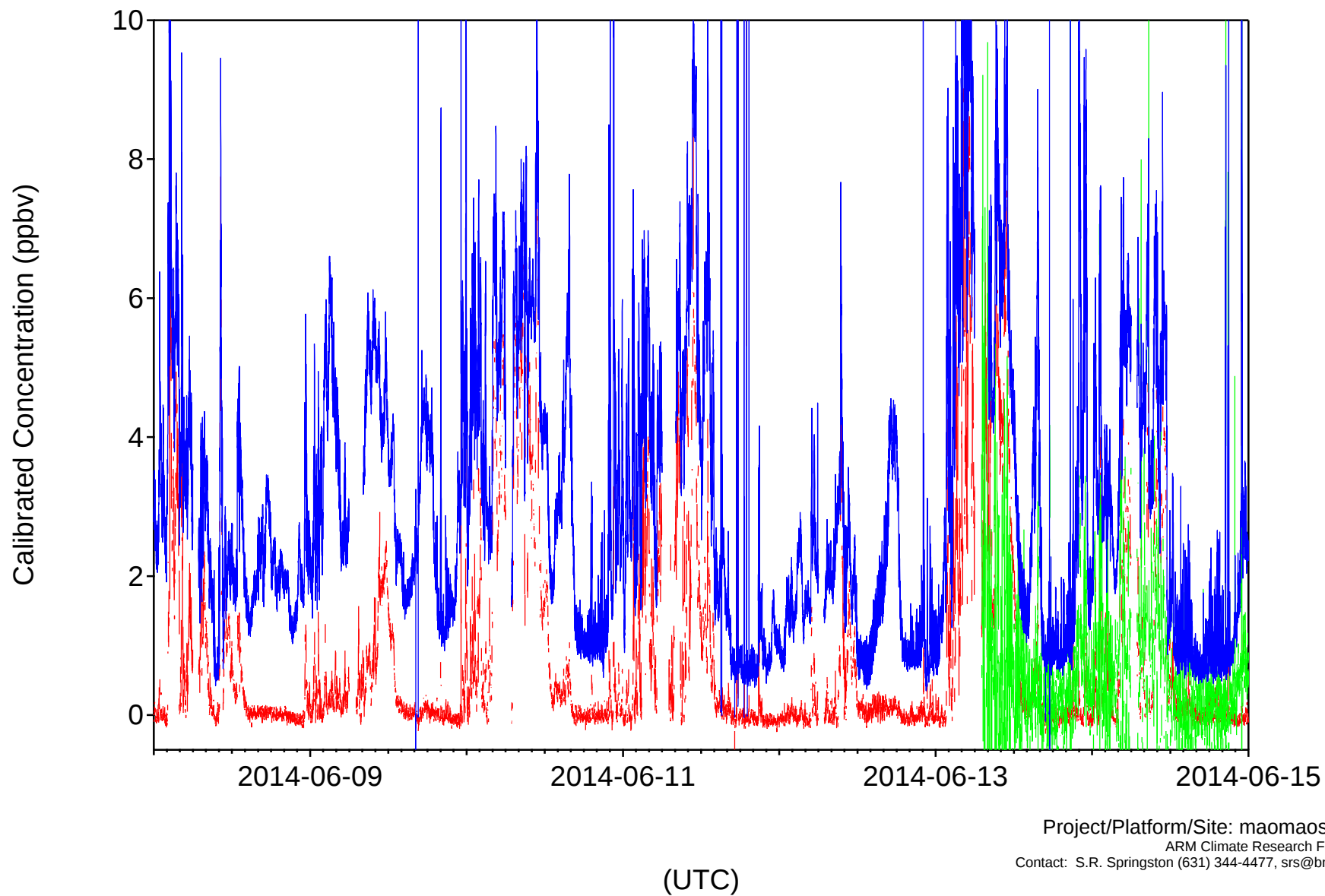


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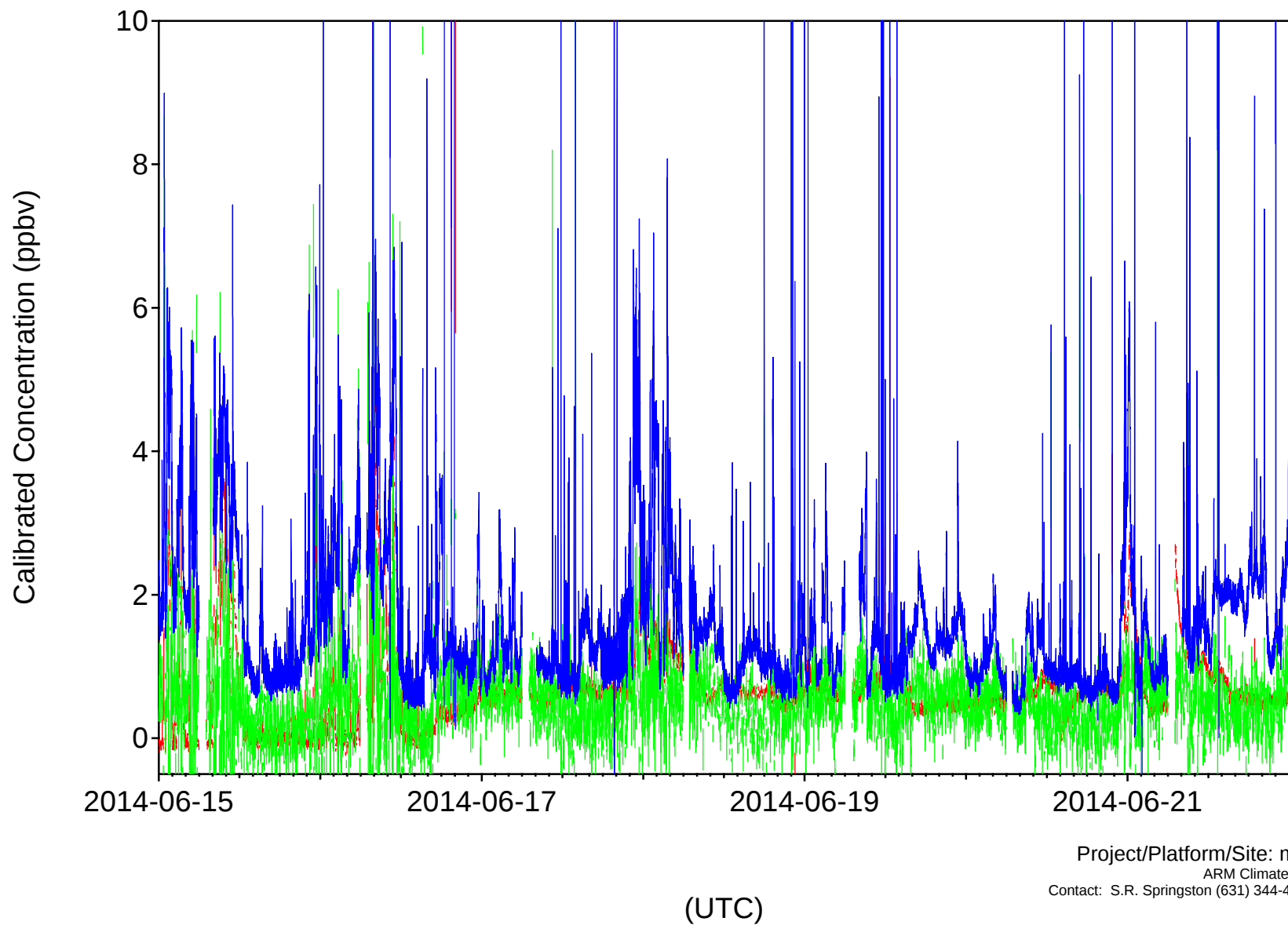
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NO₂: 1.09 ([calibrated]/[inst. reported]), C.E. = 0.22
NO_y: 1.478 ([calibrated]/[inst. reported]), C.E. = 1.03



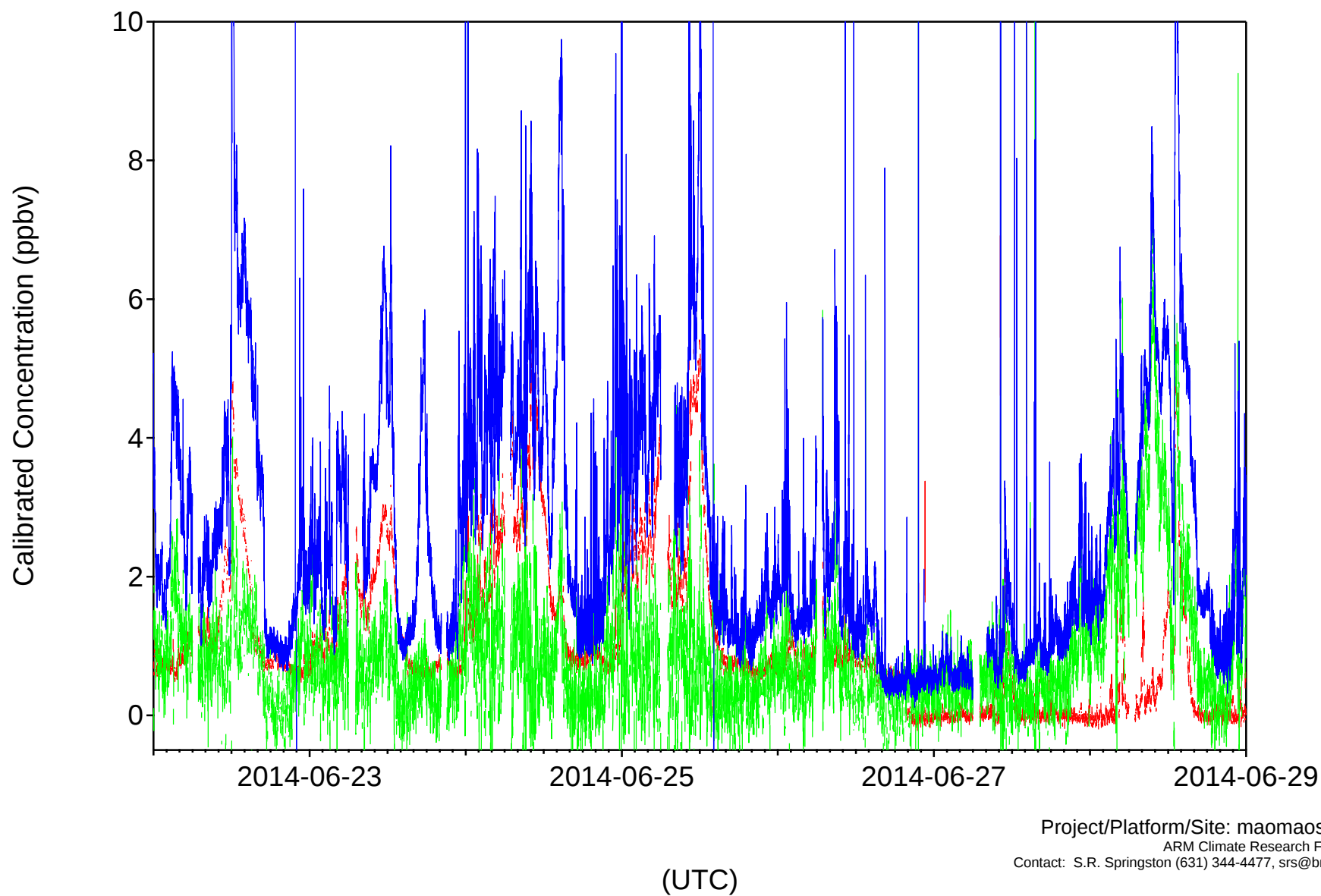
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