

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

Loading from 2014-08-01 - 2014-09-01

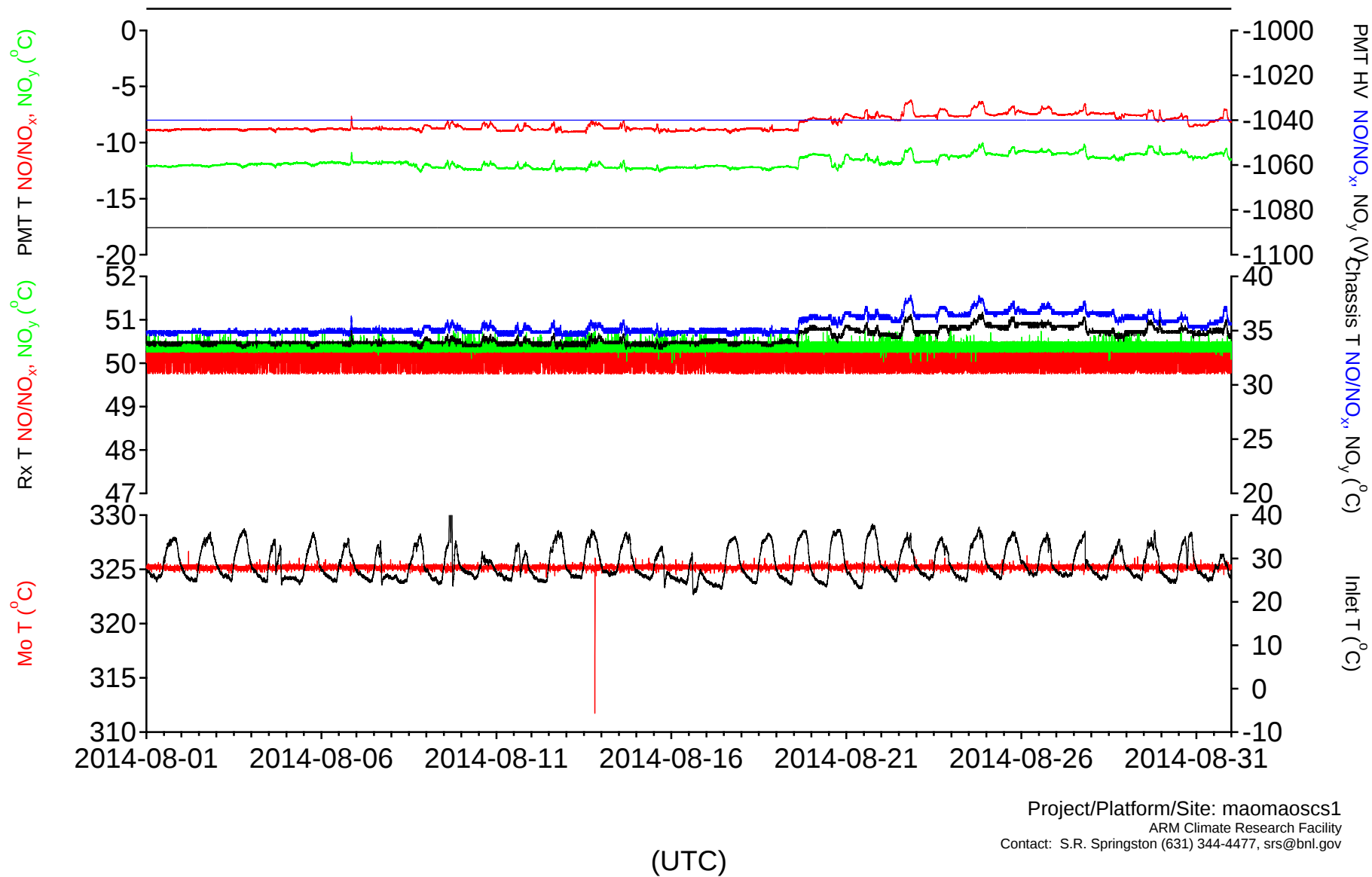
Data taken from DMF, untarred, unzipped and renamed back to original file names

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.

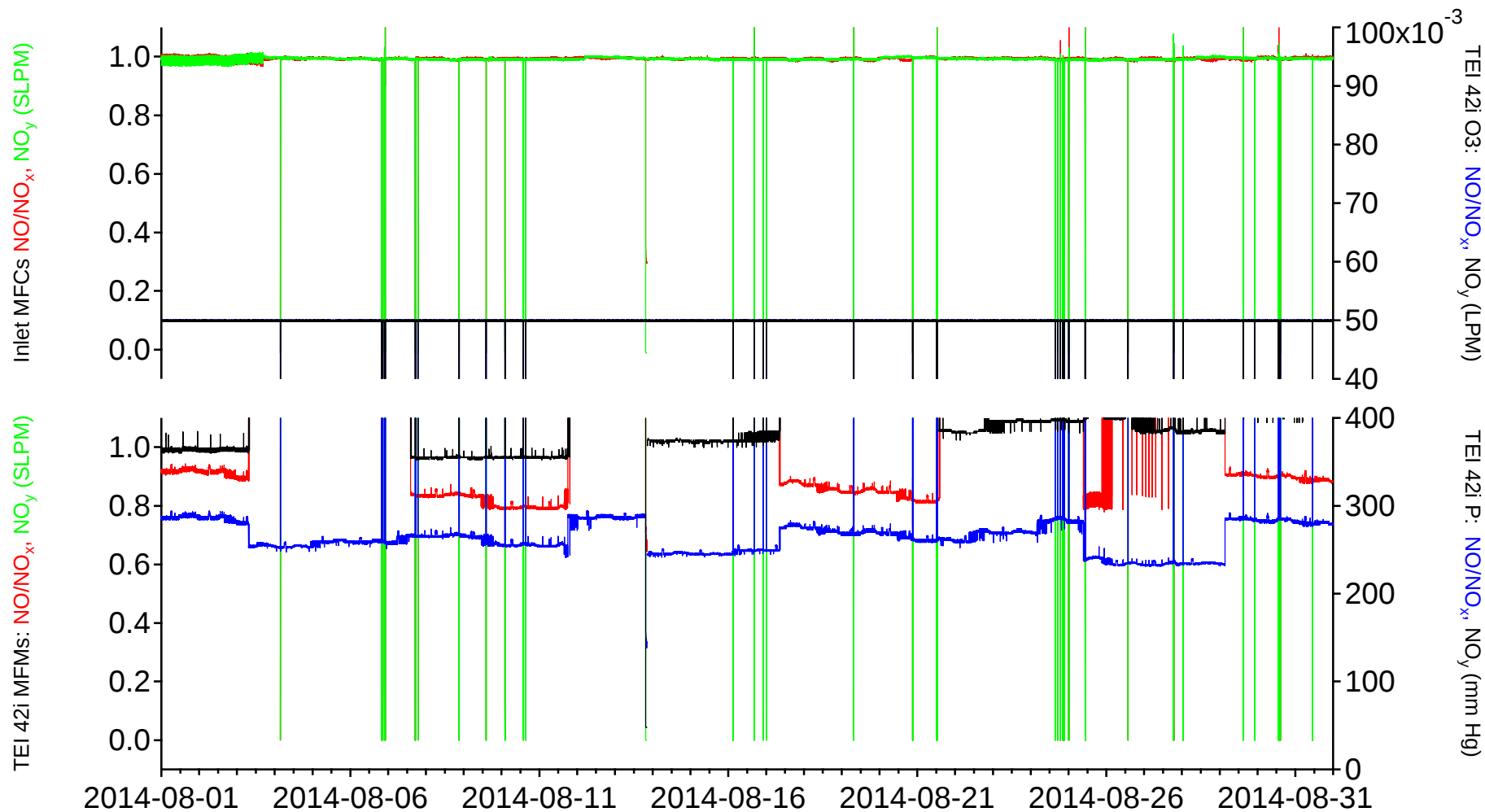
Instrument photolysis cell was repaired on 2014-08-09 ~12:26 and restarted 2014-08-12 ~15:04.
Photolysis cell conversion efficiency changed from 0.22 to 0.7382. This was manually entered into the processing.

```
duplicate NO2_final, NO2_final_arc
make /n=(numPnts(IgorTime)) tempNO = NO_raw_WaveColor == 1 ? NO_raw : Nan
Centroid(tempNO)
NanInterp(tempNO,1,1,2)
NO2_final = NOx_raw_WaveColor == 1 ? ((NOx_raw * 1.087) - (tempNO * 1.07))/
(IgorTime<3490441440 ? 0.22 : 0.7382) : NaN
```

Ground-Based NO_x Analyzer
Housekeeping 2
Temperatures



Ground-Based NO_x Analyzer
Housekeeping 1
Flows & Pressures

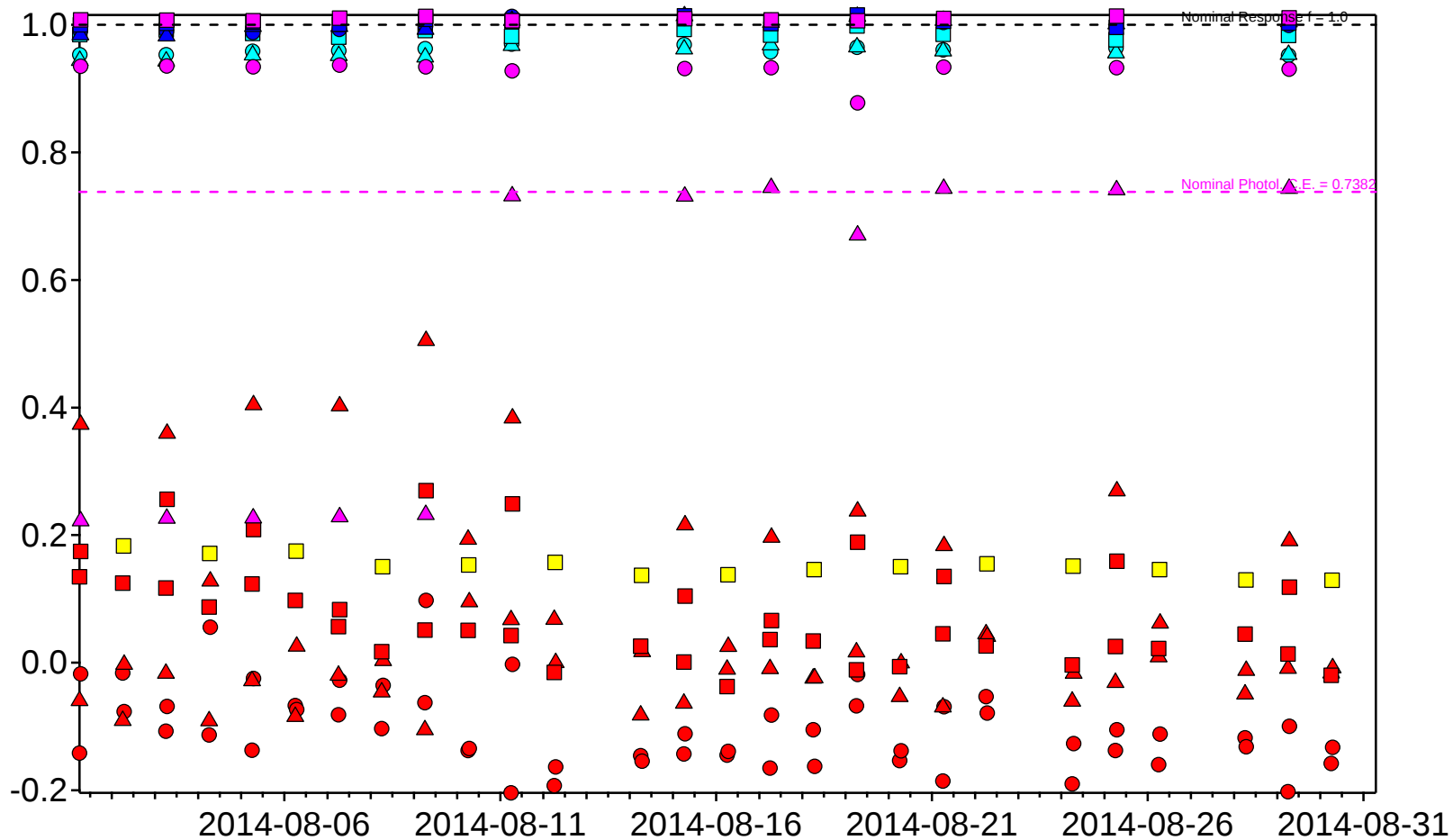


Project/Platform/Site: maomaoscs1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

(UTC)

Ground NO_x Analyzer Calibration Data

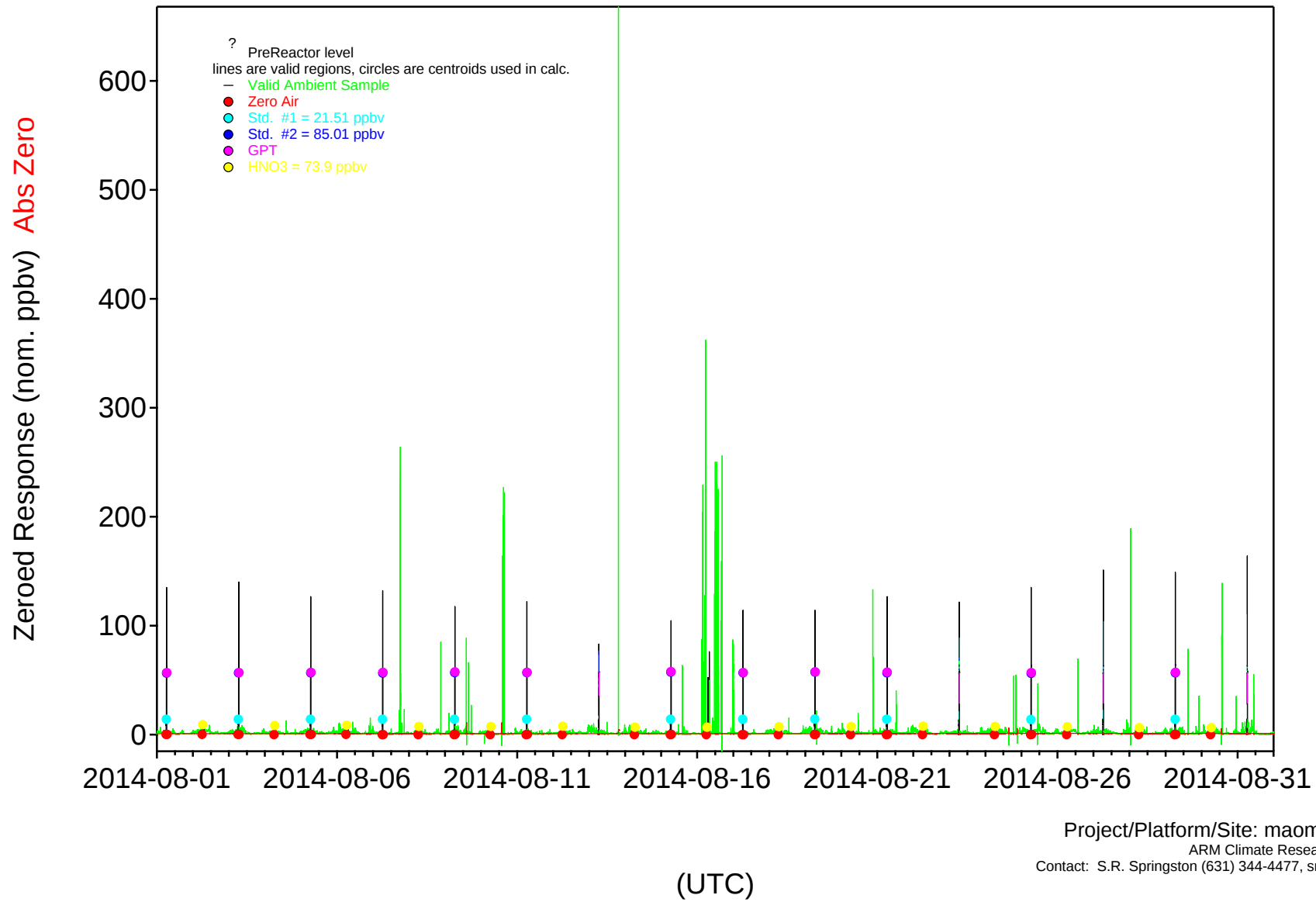
○ - NO Channel ; △ - NO_x Channel; □ - NO_y Channel
 Zero Air Equivalent Signal (ppbv)
 S.A. #1 (calibrated sig/dilution conc: [SA#1] = 21.51 ppbv)
 S.A. #2 (calibrated sig/dilution conc: [SA#2] = 85.01 ppbv)
 GPT + SA #2 (NO: frac titr., NO_x: Photol. C.E. (nom=0.7382), NO_y: Mo C.E. (nom=1.0085))
 HNO₃ cal. (calibrated sig/perm conc: [HNO₃] = 73.9 ppbv)



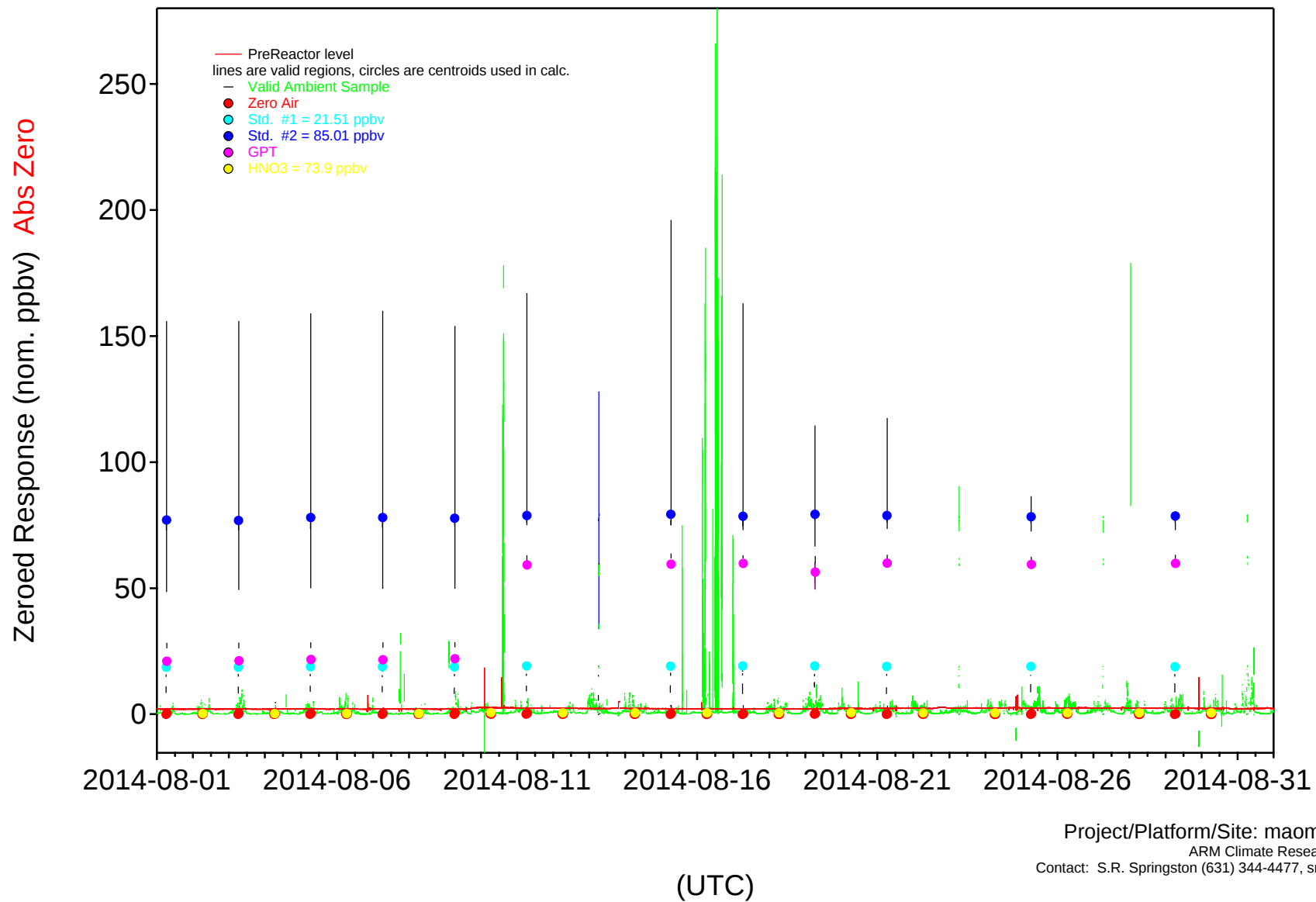
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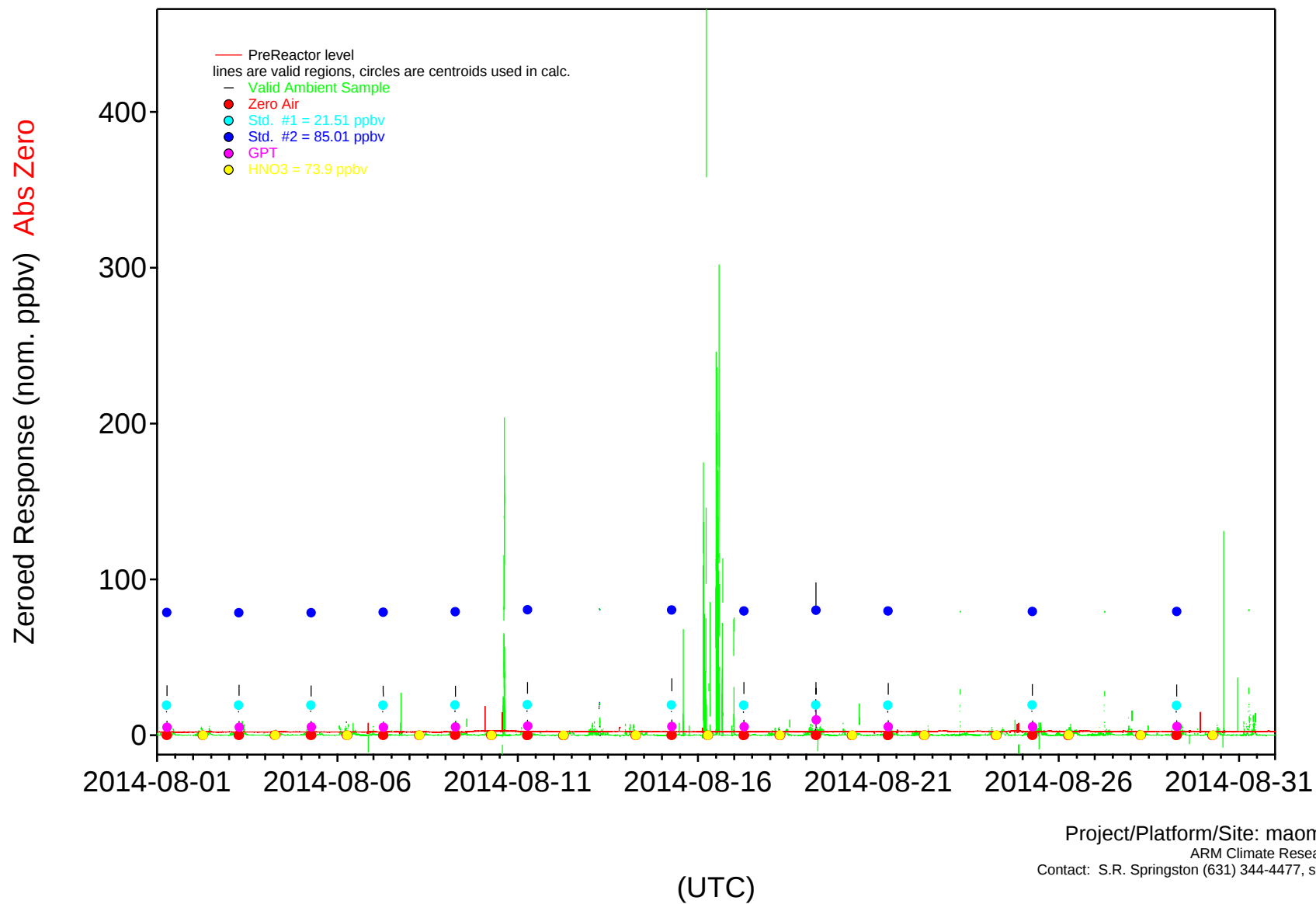
Ground NO_x Analyzer Parsed NO_y Channel Data



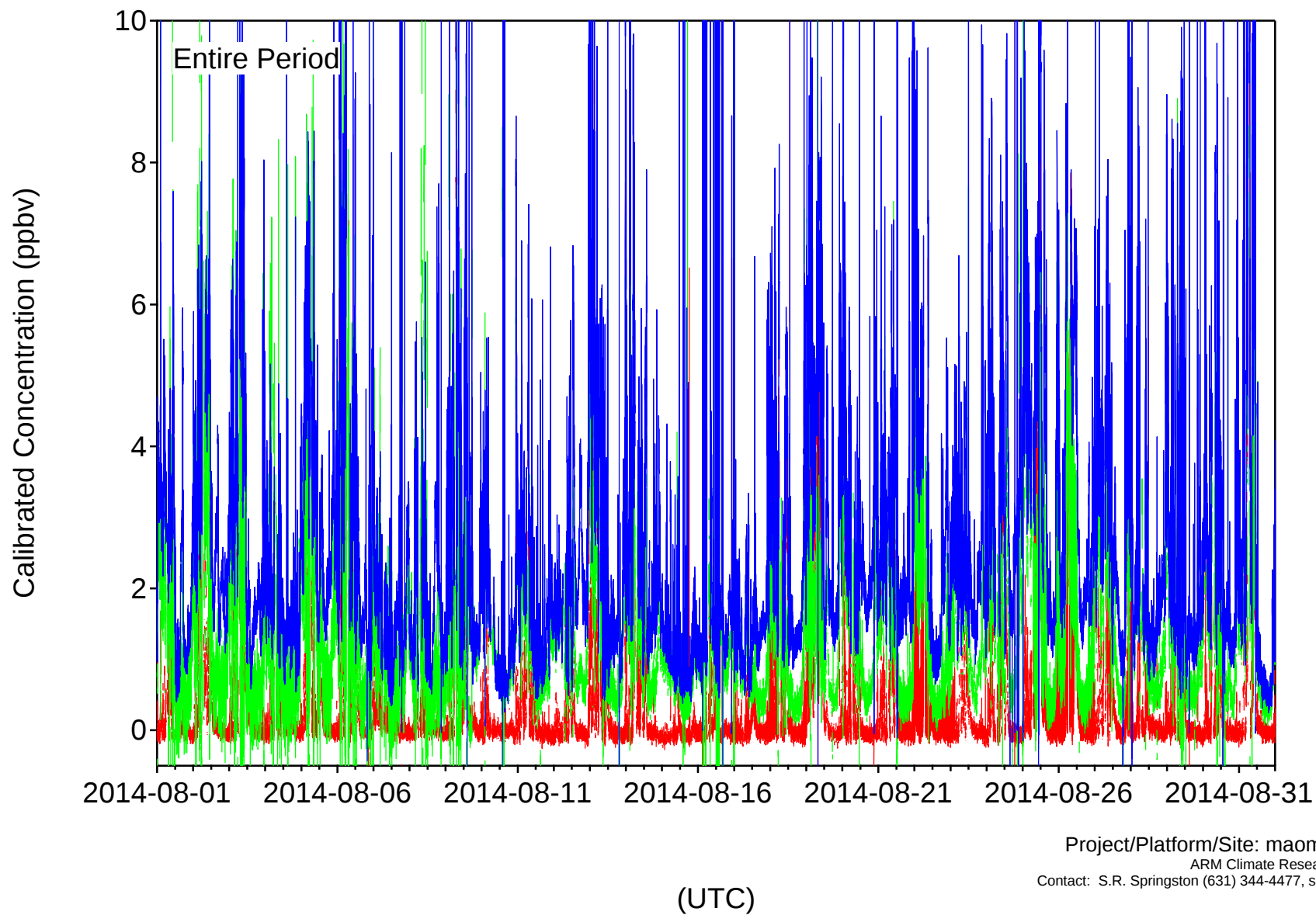
Ground NO_x Analyzer Parsed NO_x Channel Data



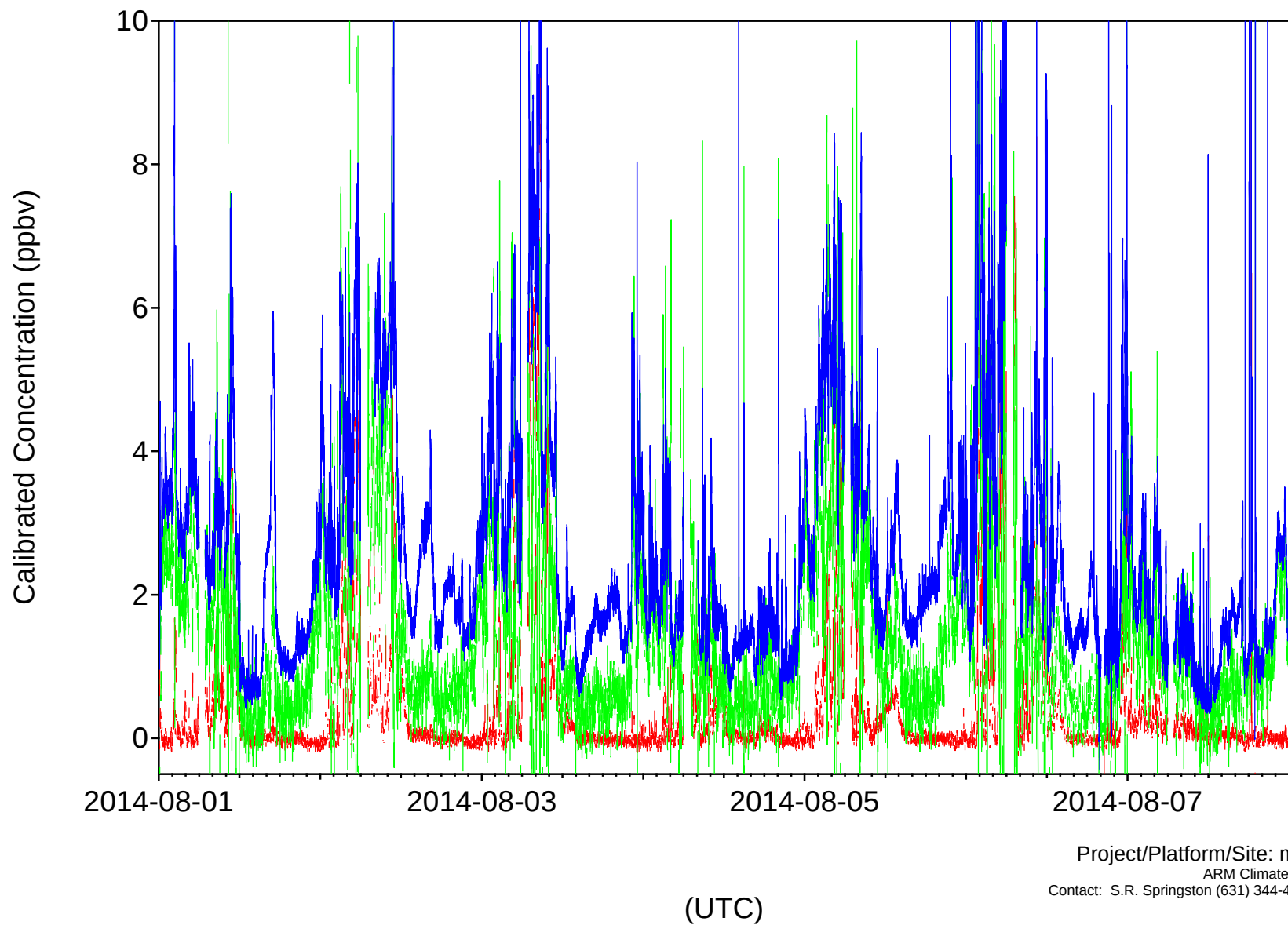
Ground NO_x Analyzer Parsed NO Channel Data



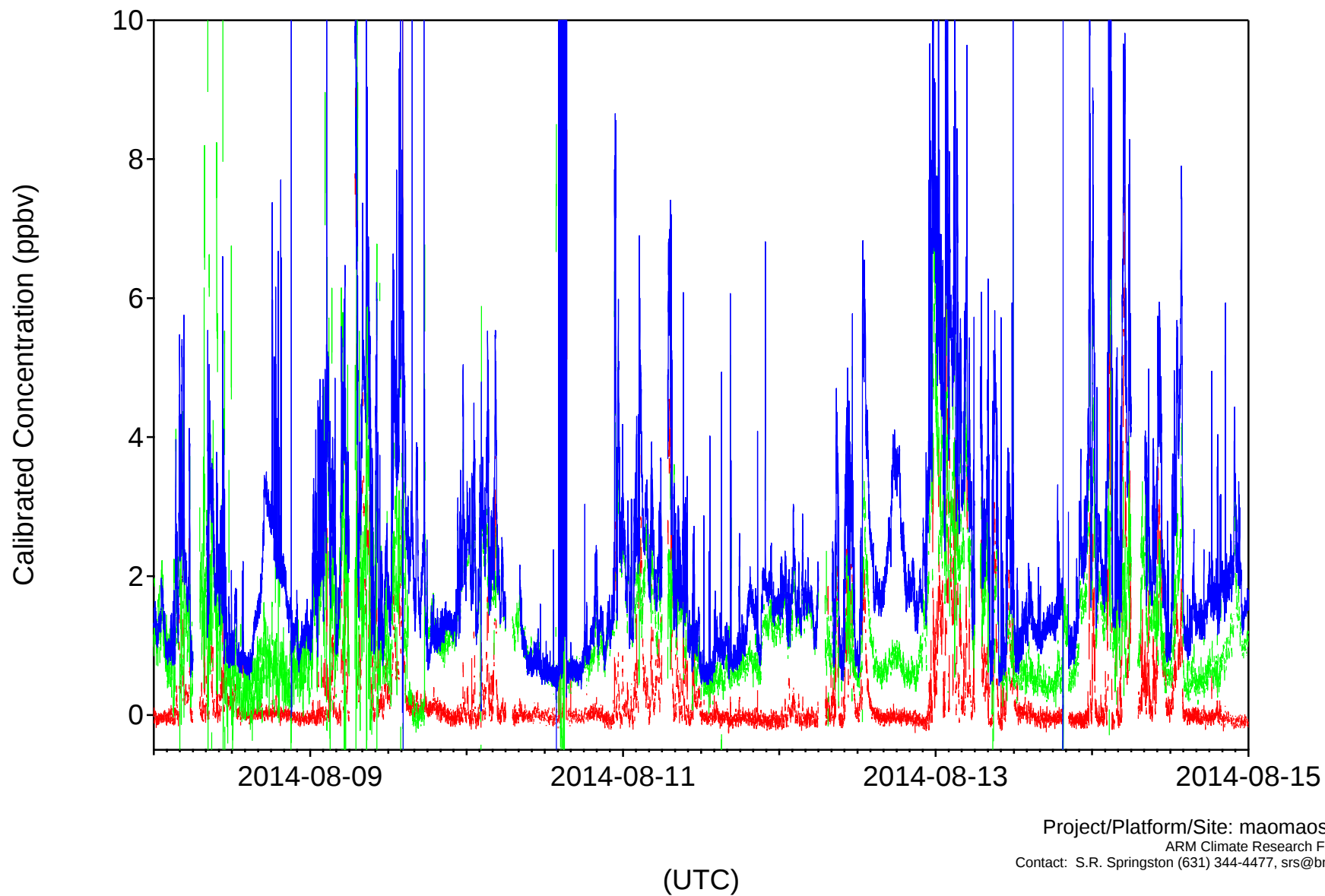
Calibration Factors Used:
NO: 1.07 ([calibrated]/[inst. reported])
NO₂: 1.087 ([calibrated]/[inst. reported]), C.E. = 0.7382
NO_y: 1.506 ([calibrated]/[inst. reported]), C.E. = 1.0085



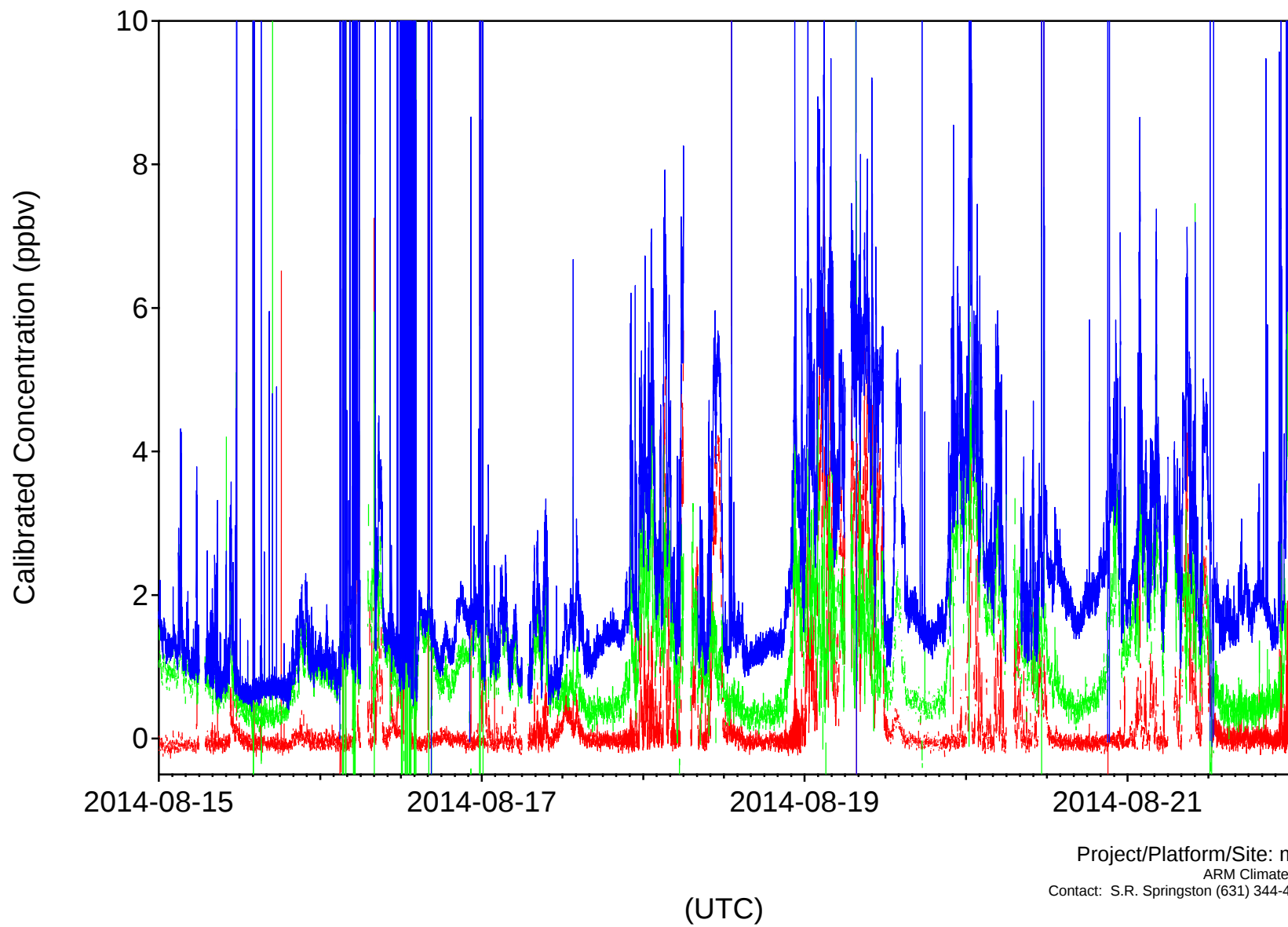
Calibration Factors Used:
NO: 1.07 ([calibrated]/[inst. reported])
NO₂: 1.087 ([calibrated]/[inst. reported]), C.E. = 0.7382
NO_y: 1.506 ([calibrated]/[inst. reported]), C.E. = 1.0085



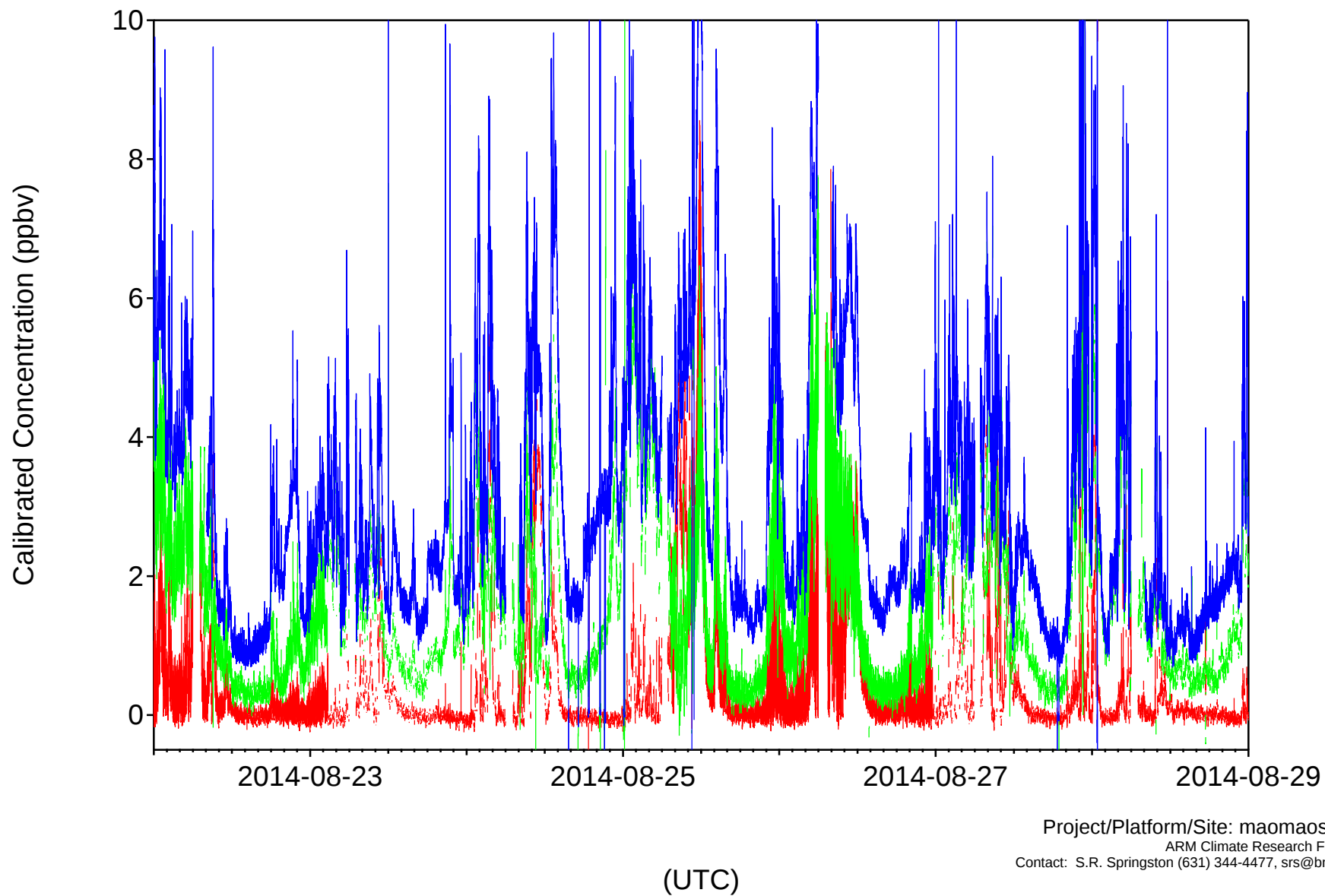
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