

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

Loading from 2014-11-01 - 2014-12-01

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.

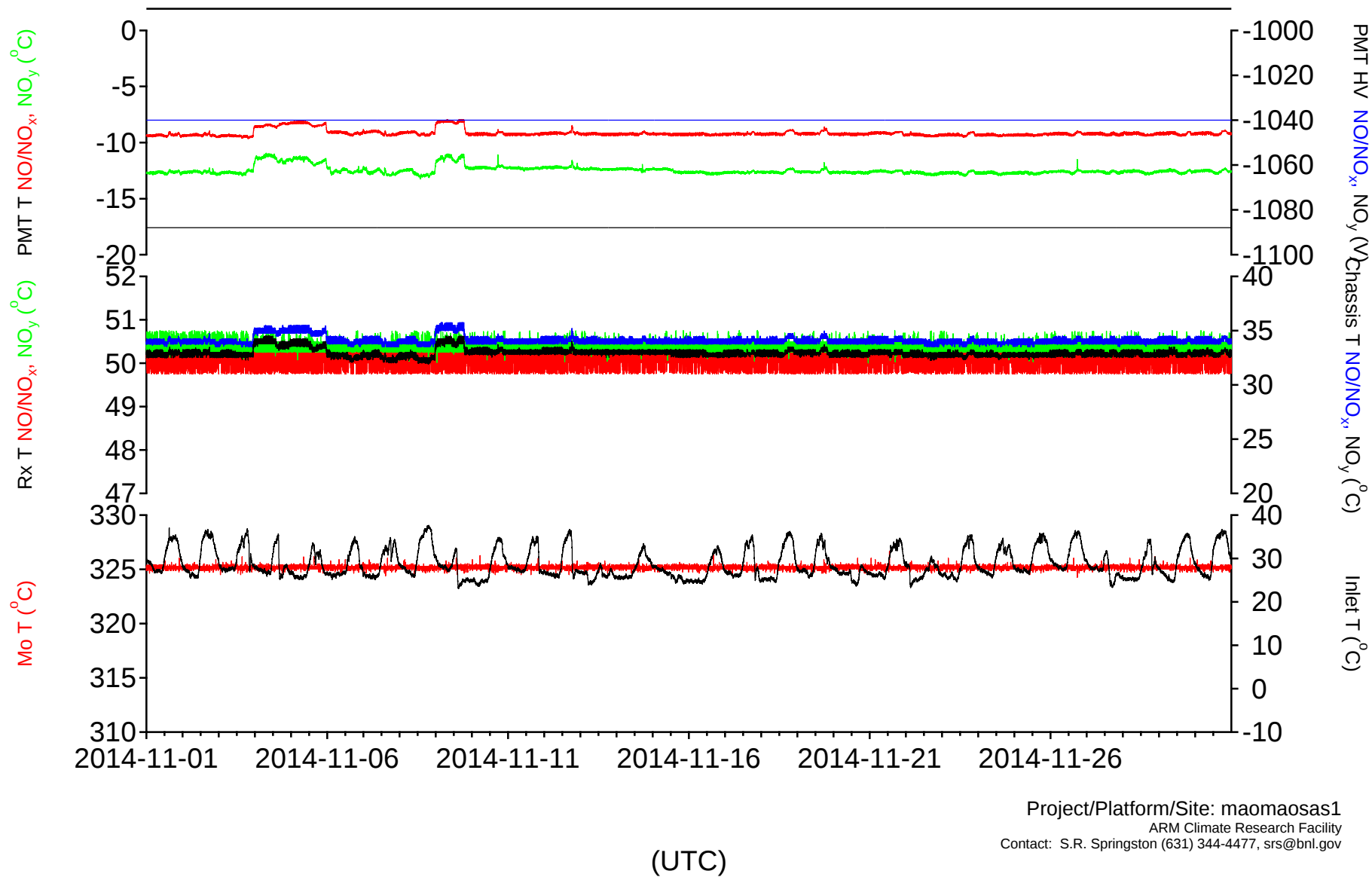
Ambient data appear valid.

Diurnal cycles of all three species are readily apparent.

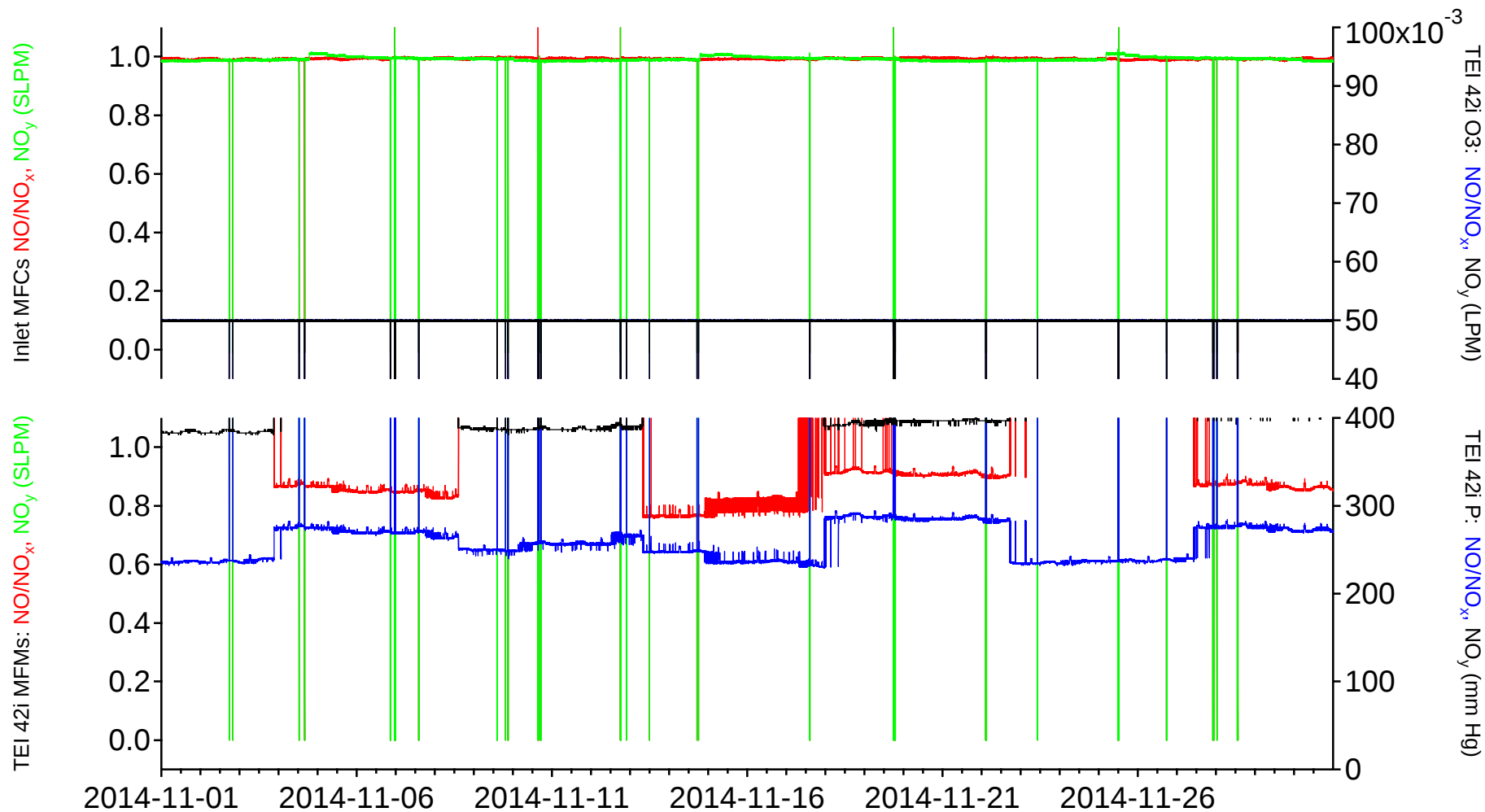
Huge local impact ~2014-11-12 22:00, 2014-11-13 12:00 (Generator?) Generator operation and restarts seemed quite common this month. No discrimination of these periods was provided.

Multiple large (>100 ppbv) excursions noted. Most (but not all) of these correlate with CO excursions. They are very fast and so the NO₂ values (which depend on a difference measurement) are not valid. It is nearly impossible to discriminate these periods. Some of these periods MAY be due to local generator emissions and the associated variability with instrument/pump restarts.

Ground-Based NO_x Analyzer
Housekeeping 2
Temperatures



Ground-Based NO_x Analyzer
Housekeeping 1
Flows & Pressures

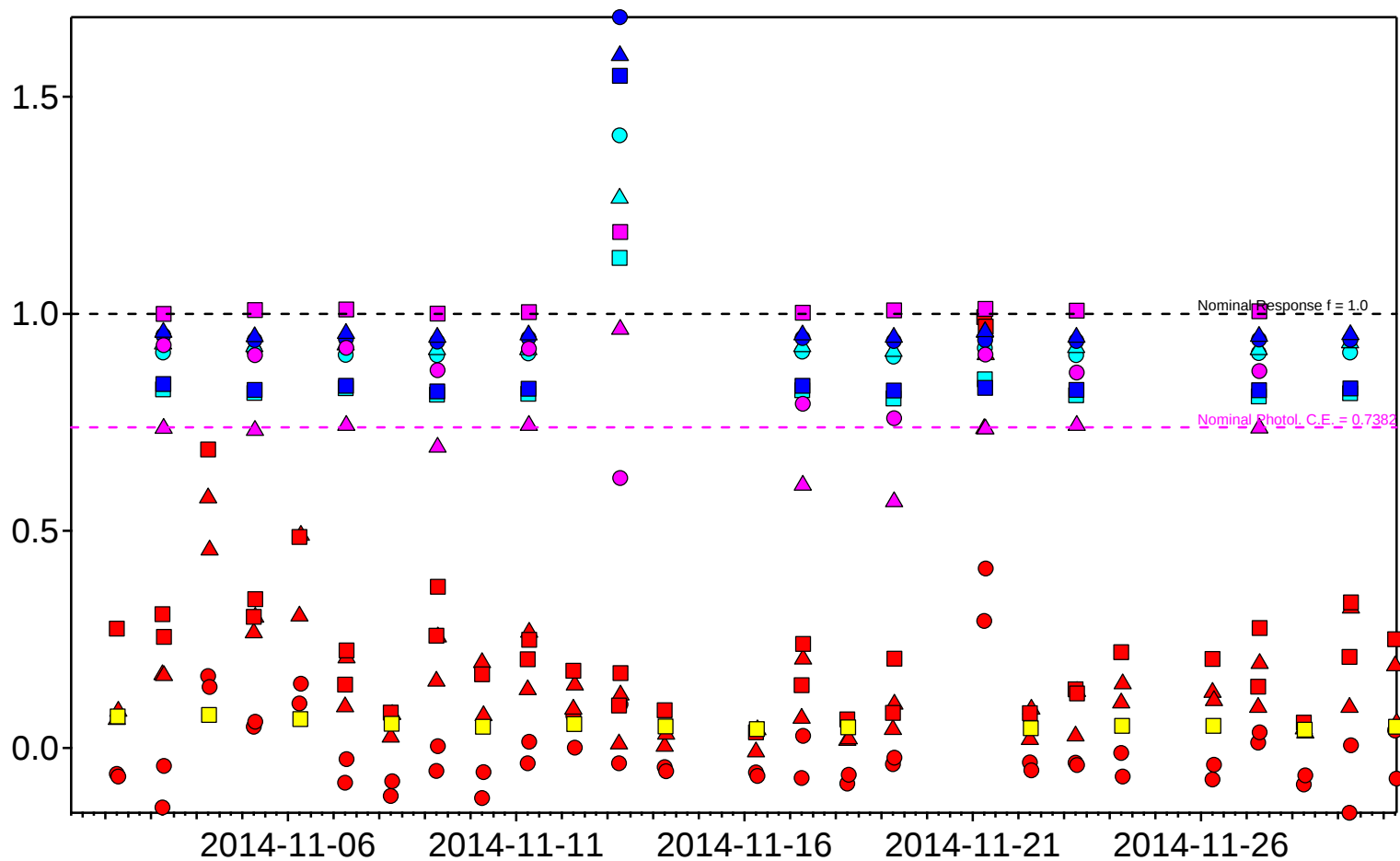


(UTC)

Project/Platform/Site: maomaosas1
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] = 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)

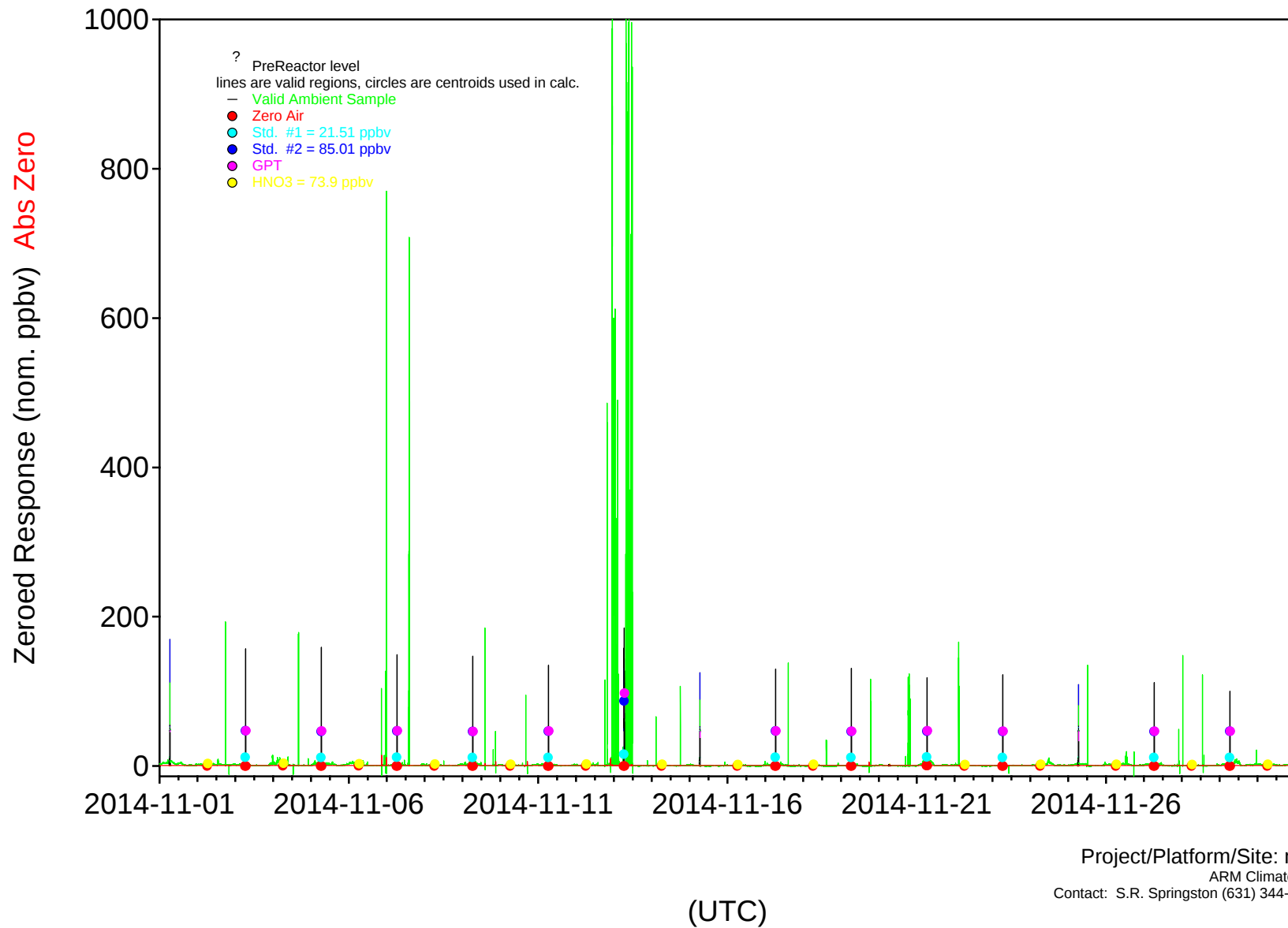
Ground NO_x Analyzer Calibration Data



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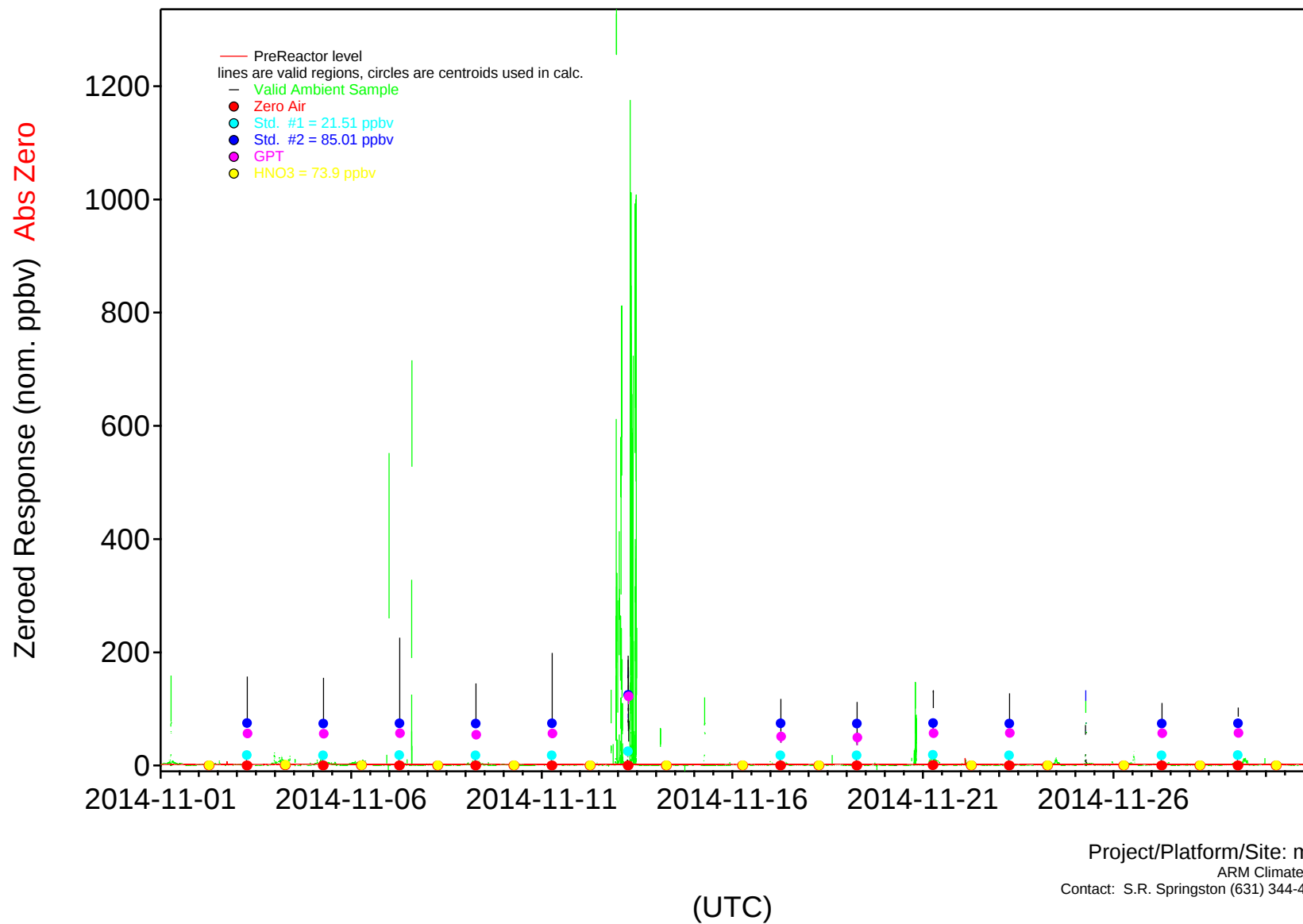
(UTC)

Ground NO_x Analyzer Parsed NOy Channel Data

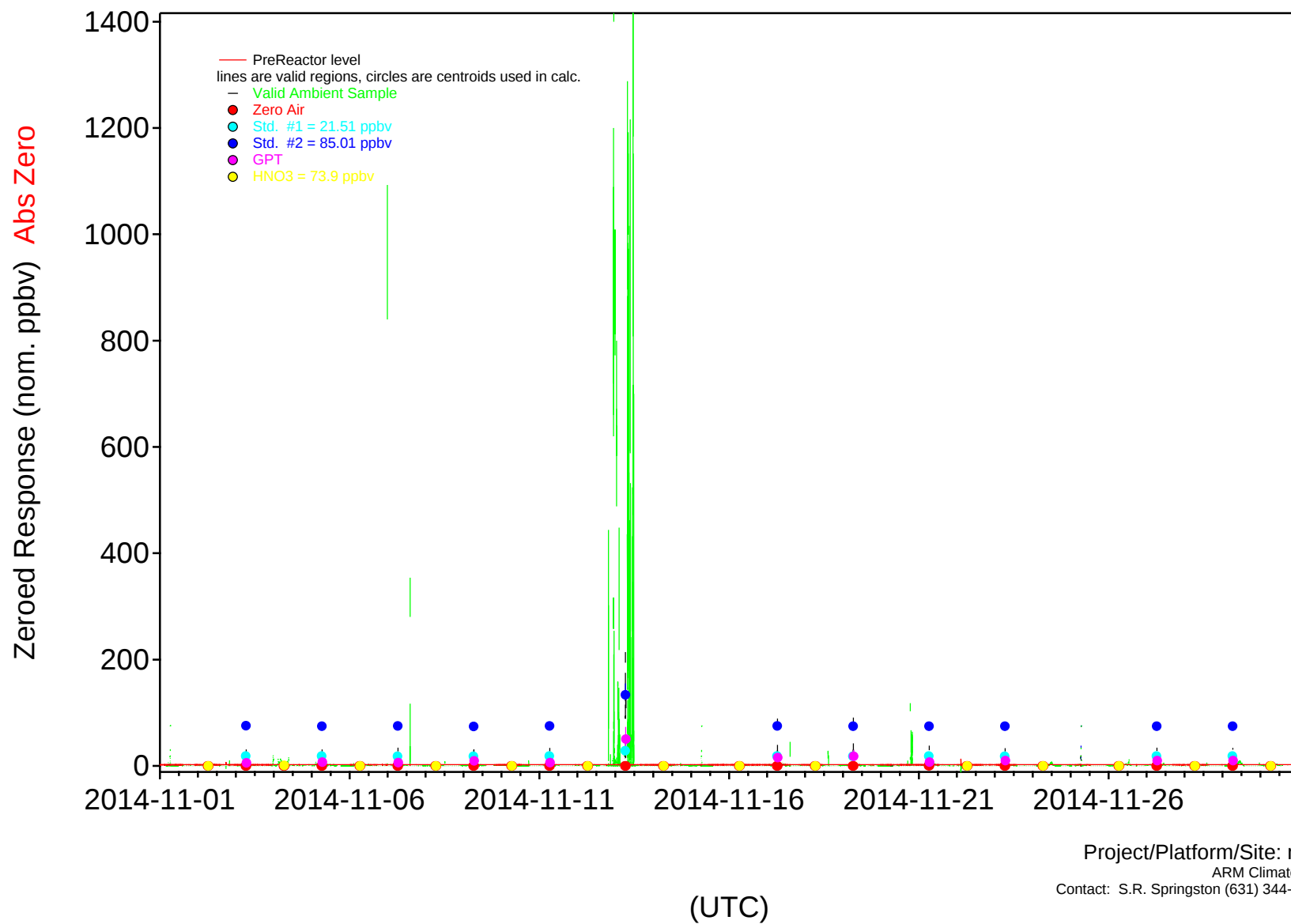


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Ground NO_x Analyzer Parsed NOx Channel Data

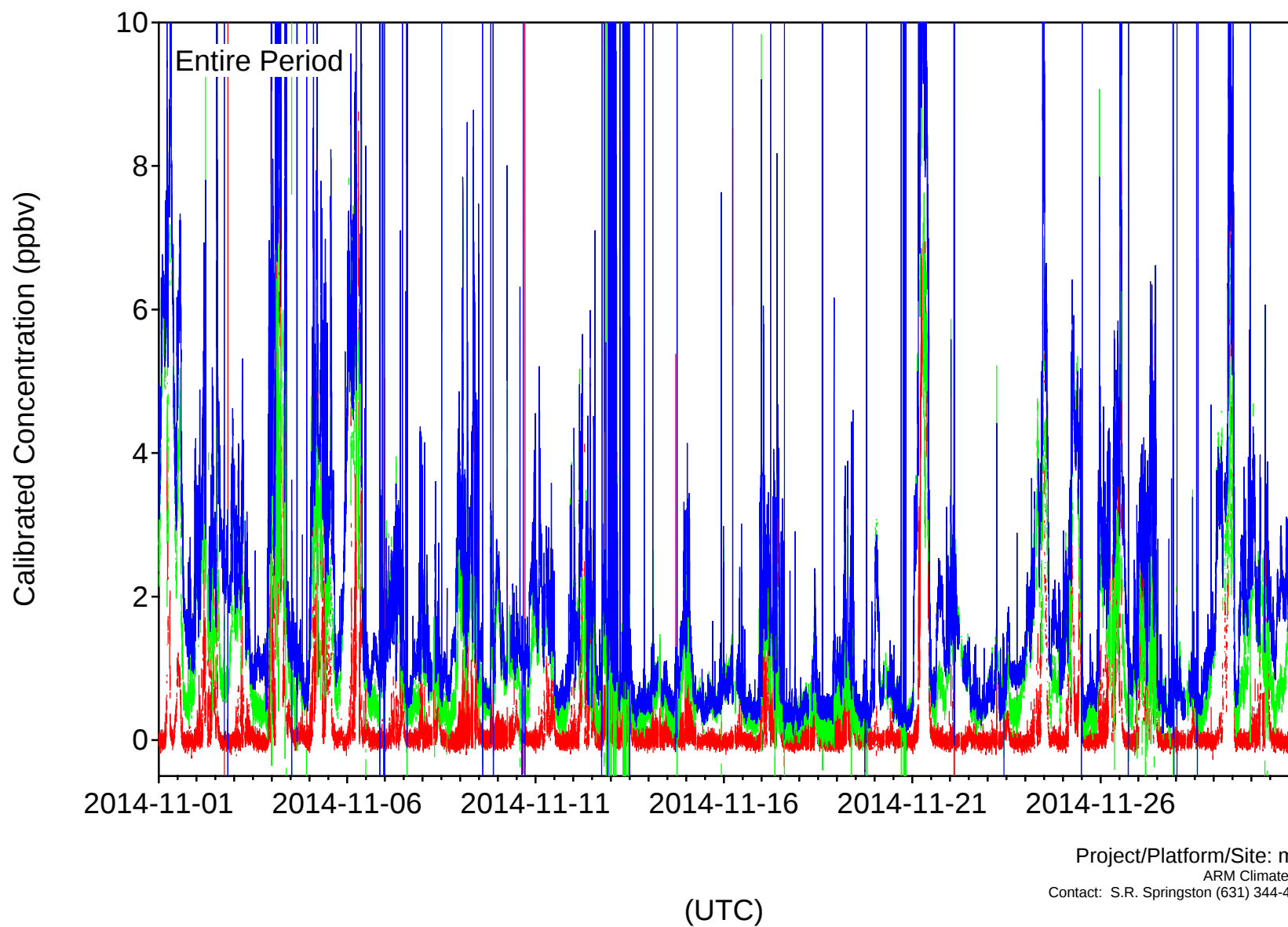


Ground NO_x Analyzer Parsed NO Channel Data

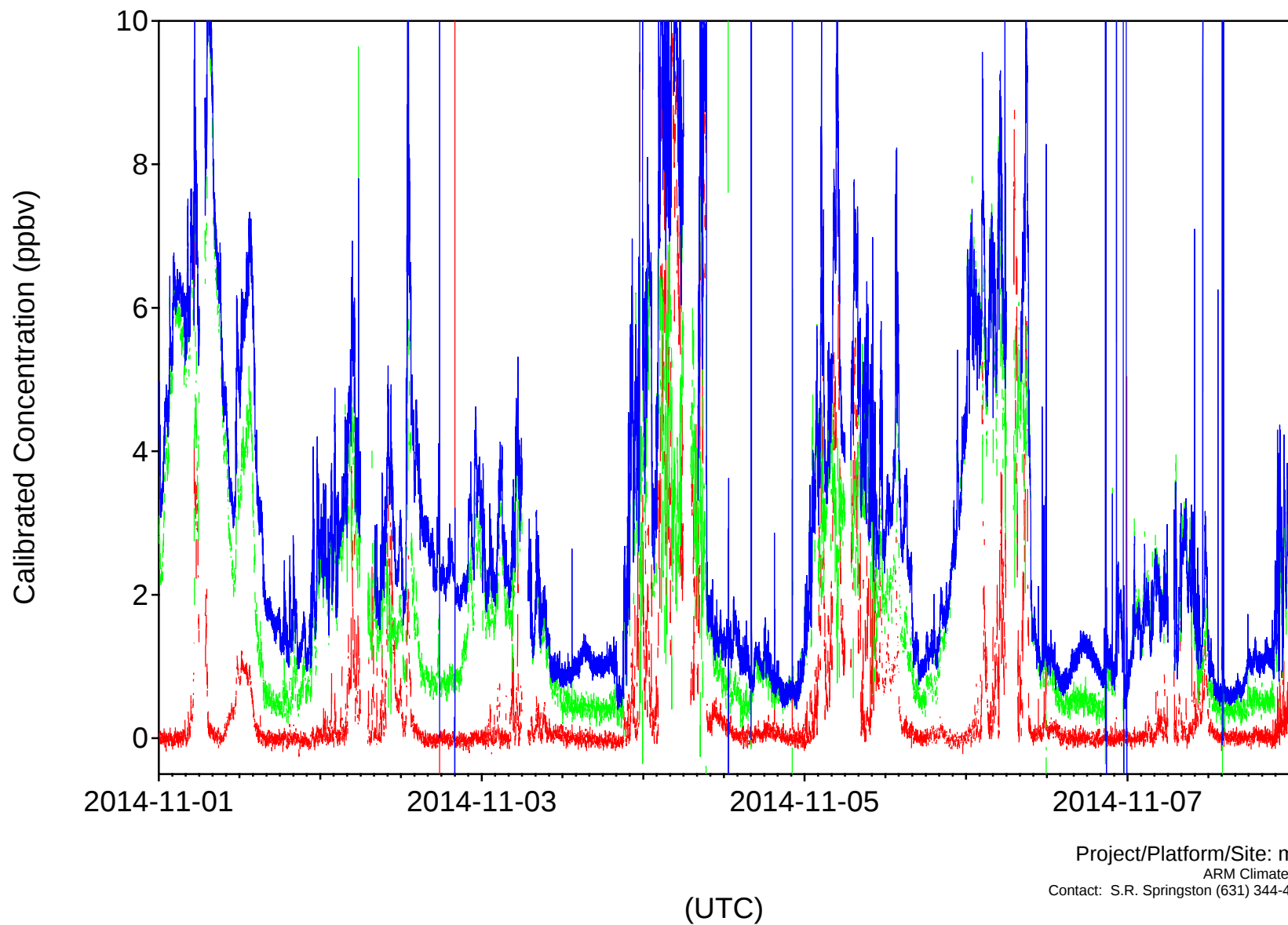


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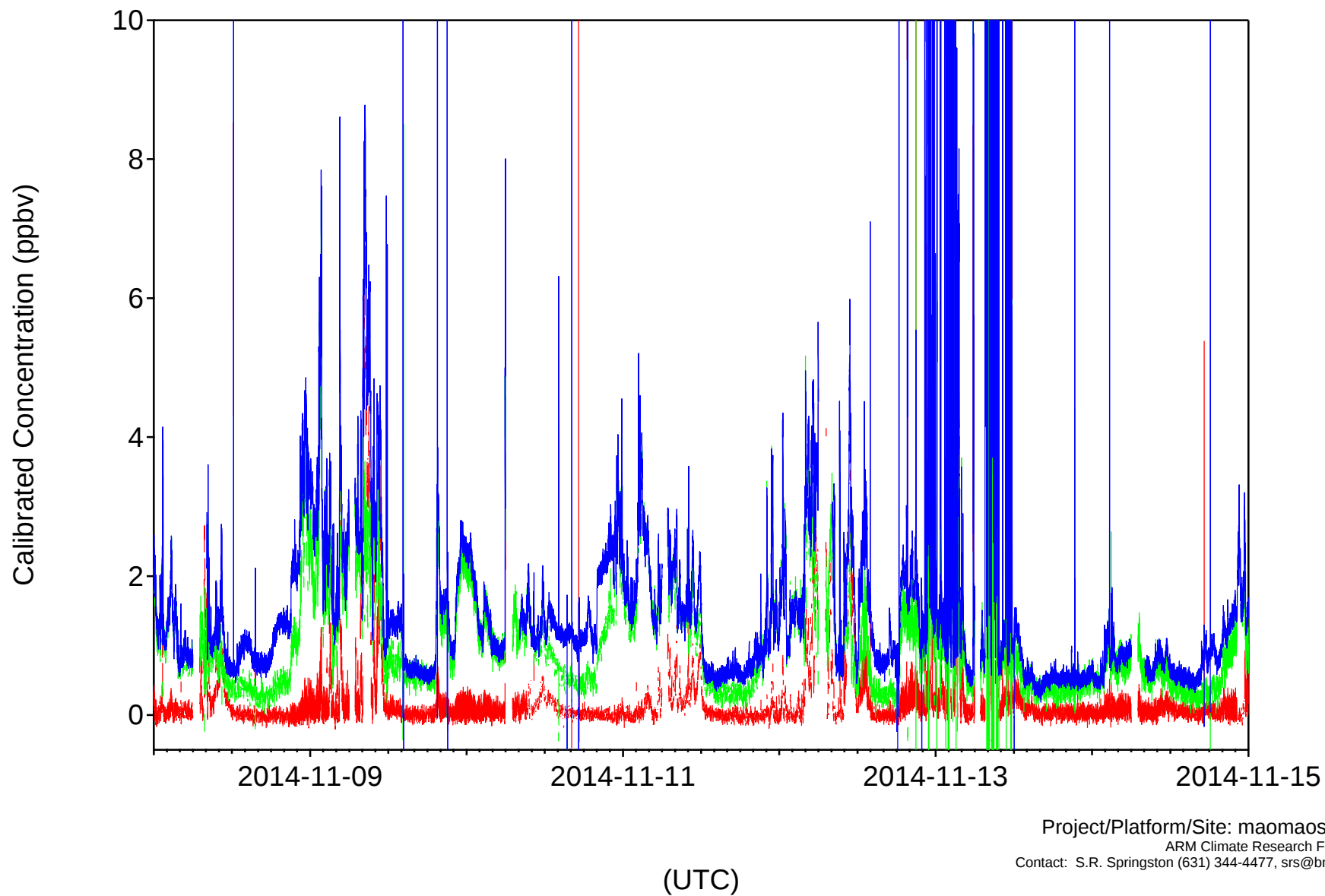
Calibration Factors Used:
NO: 1.07 ([calibrated]/[inst. reported])
NO₂: 1.087 ([calibrated]/[inst. reported]), C.E. = 0.7382
NO_y: 1.506 ([calibrated]/[inst. reported]), C.E. = 1.0085



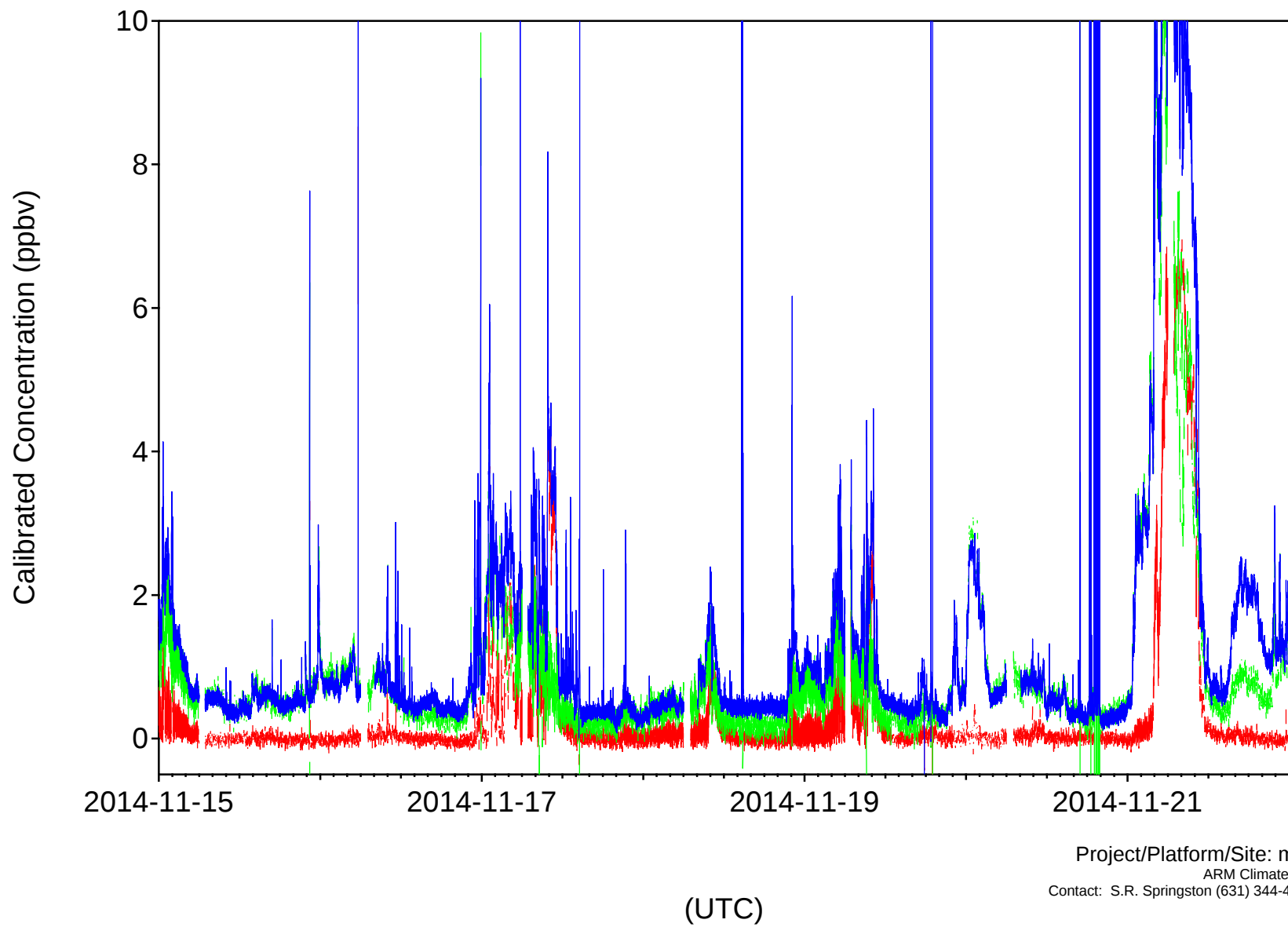
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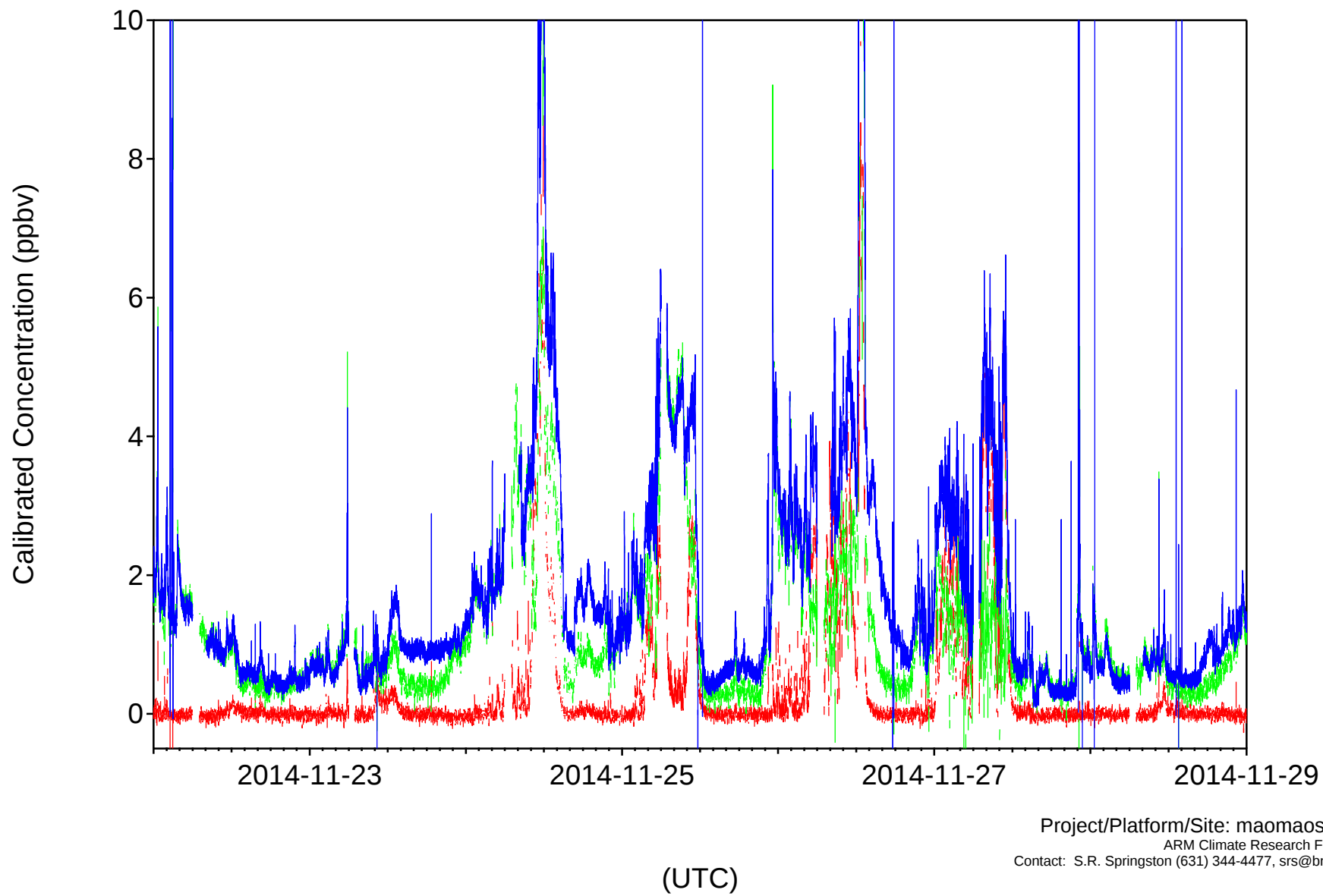
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