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

Loading 2015-05-01 - 2015-06-01
Data loaded from detarred, dezipped files from the DMF

To reduce Operator need for frequent filter changes, dilution turned on @ 14-02-21 21:12. Every 24-h, the dilution is turned off for 5 minutes. This was not long enough to get an undiluted sample. Dilution operational at ~0.5 until ~ 2015-02-07 when the Pentras drier died.

As always, data not reported for T(blue) < 0.7

Impactor in place, operational and signals are correct polarity. As cofirmation, the flow signal decreases slightly when the impactor is in the 1-um state.

Some evidence of supermicron particles. A number of local events resulting in high absorbance. These were not edited.

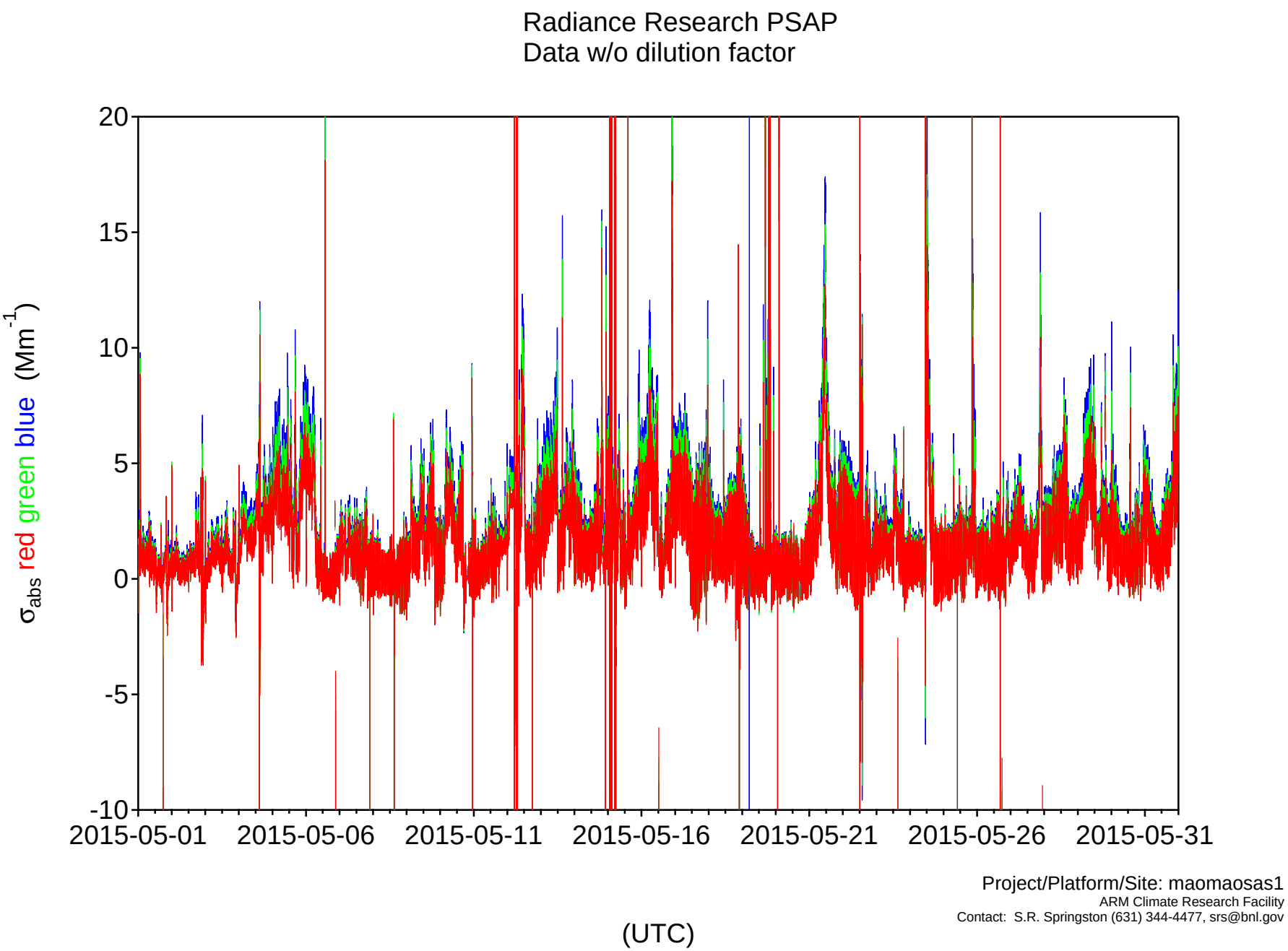
Multiple power outages this month. These are not logged numerically so there is no way to reconcile the outage periods to the data output.

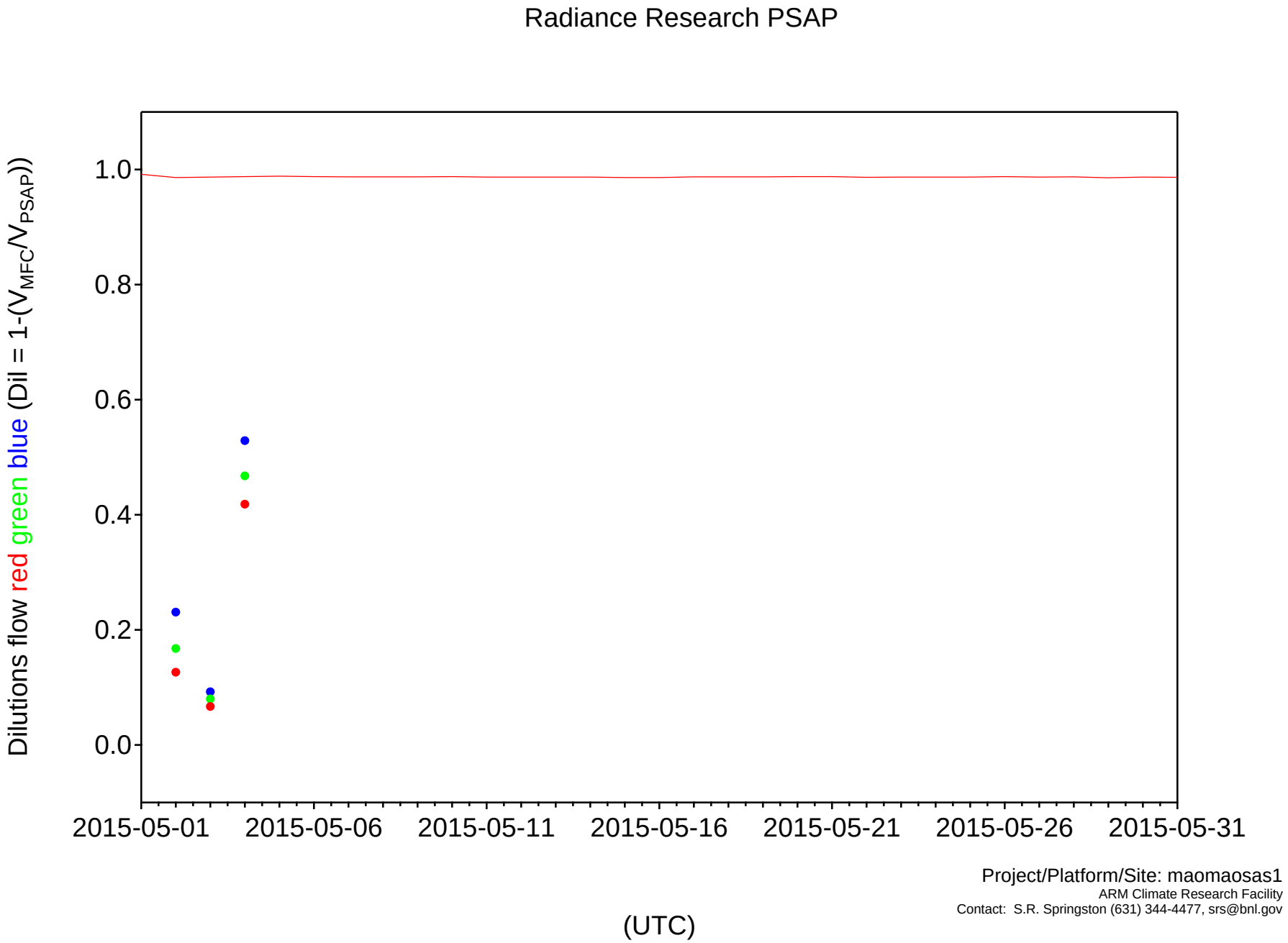
Beginning in February 2015, data processing uses the recorded impactor state as opposed to previously when the impactor command was assumed to reflect the state.

Dilution flow turned off this month due to Pentras air drier malfunction. Noise is greater than expected. Periodic noise modulation of ~0.5 Mm^-1 correlates perfectly with temperature on rack #1. This appears unavoidable. These issues discussed in BCR-02001 and BCR-02122

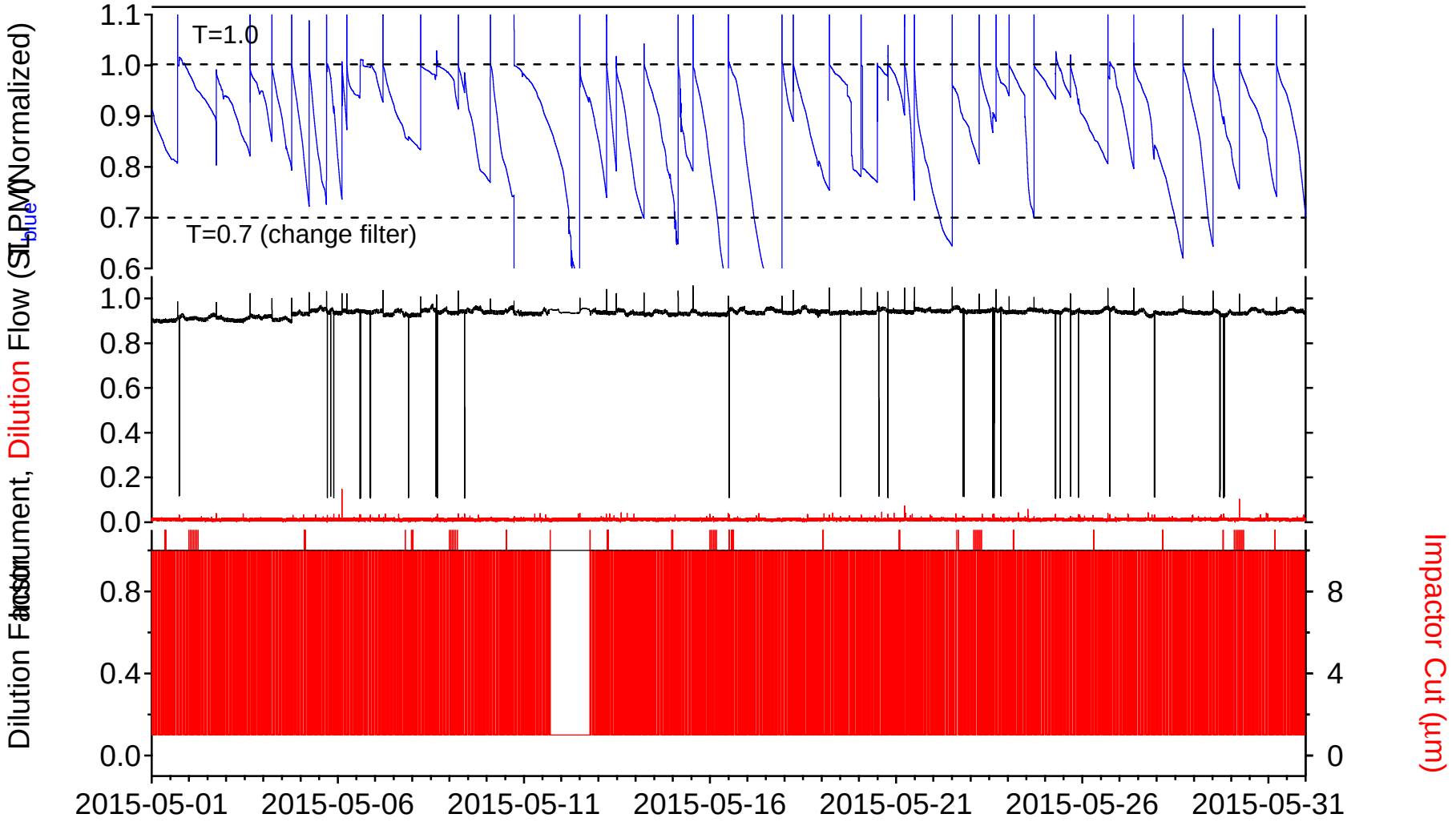
Data Gaps > 1h due to Tr<0.7, pump turned off, etc. DQR D150612.1

2015-05-12 04:47:34, 2015-05-12 12:09:07
2015-05-15 01:01:22, 2015-05-15 03:37:06
2015-05-15 04:39:12, 2015-05-15 05:39:13
2015-05-16 04:43:35, 2015-05-16 11:58:05
2015-05-17 04:24:29, 2015-05-17 22:33:04
2015-05-22 04:04:08, 2015-05-22 12:11:39
2015-05-28 11:36:48, 2015-05-28 17:07:59
2015-05-29 09:08:41, 2015-05-29 12:29:58


Radiance Research PSAP
Data w/o dilution factor
σabs red green blue (Mm-1)
20
15
10
5
0
-5
-10
2015-05-01
2015-05-06
2015-05-11
2015-05-16
2015-05-21
2015-05-26
2015-05-31
(UTC)
Project/Platform/Site: maomaosas1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov


Radiance Research PSAP
Dilutions flow red green blue (Dil = 1-(V_MFC/V_PSAP))
1.0
0.8
0.6
0.4
0.2
0.0
2015-05-01
2015-05-06
2015-05-11
2015-05-16
2015-05-21
2015-05-26
2015-05-31
(UTC)
Project/Platform/Site: maomaosas1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov

Radiance Research PSAP
Housekeeping



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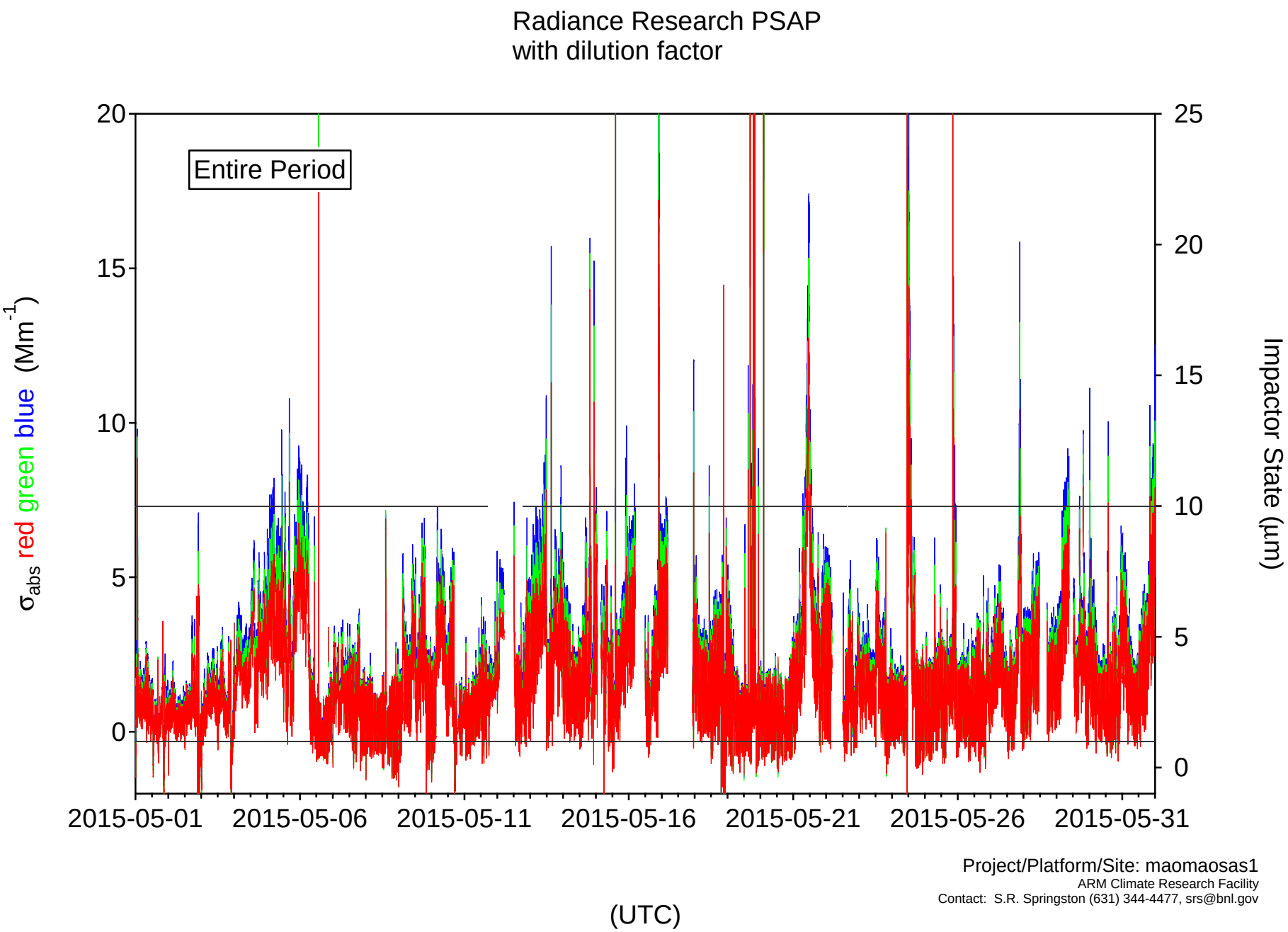
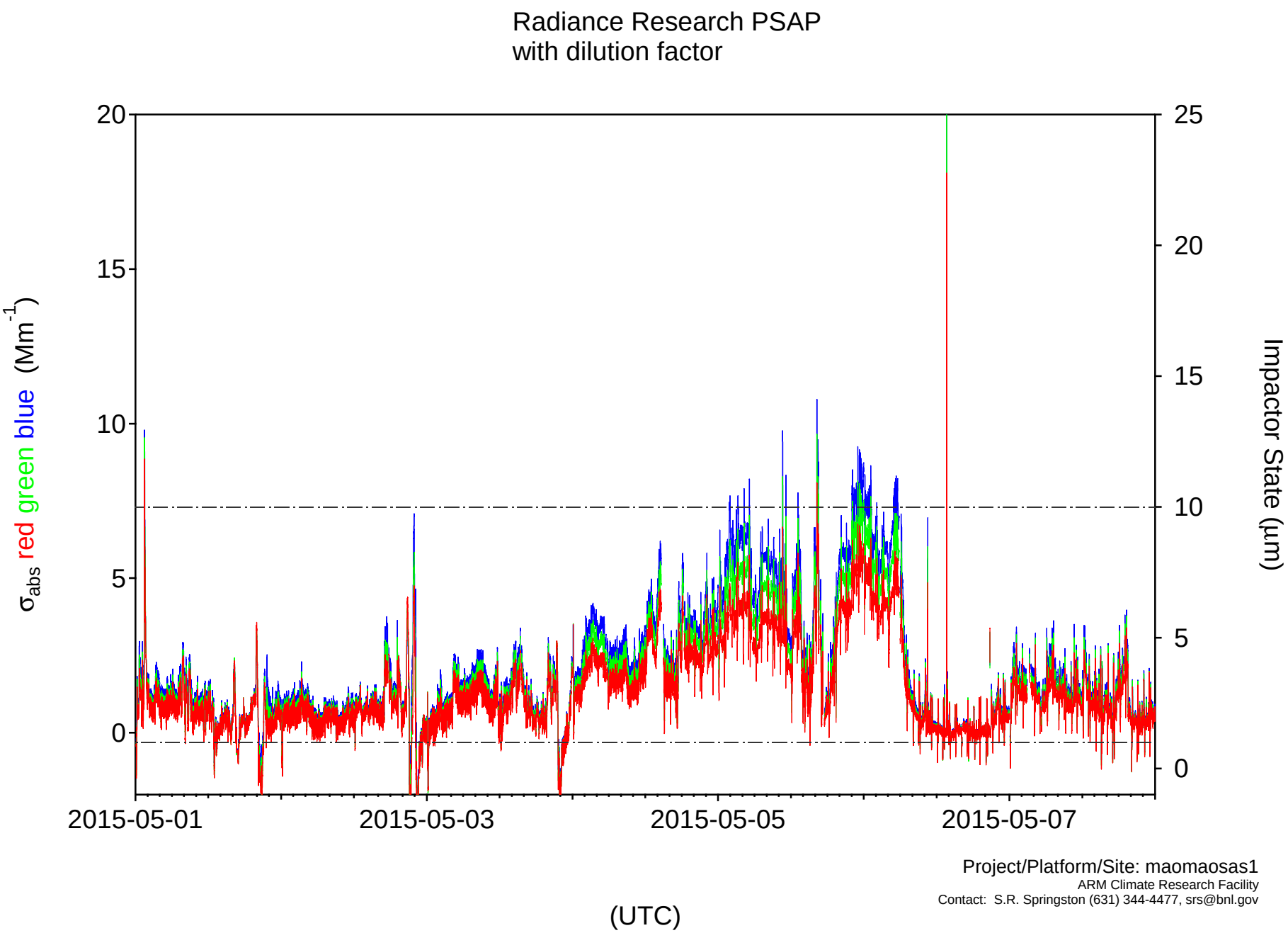

Radiance Research PSAP
with dilution factor
Entire Period
σabs red green blue (Mm-1)
Impactor State (µm)
20
15
10
5
0
25
20
15
10
5
0
2015-05-01
2015-05-06
2015-05-11
2015-05-16
2015-05-21
2015-05-26
2015-05-31
(UTC)
Project/Platform/Site: maomaosas1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov


Radiance Research PSAP
with dilution factor
σabs red green blue (Mm-1)
Impactor State (µm)
20
15
10
5
0
25
20
15
10
5
0
2015-05-01
2015-05-03
2015-05-05
2015-05-07
(UTC)
Project/Platform/Site: maomaosas1
ARM Climate Research Facility
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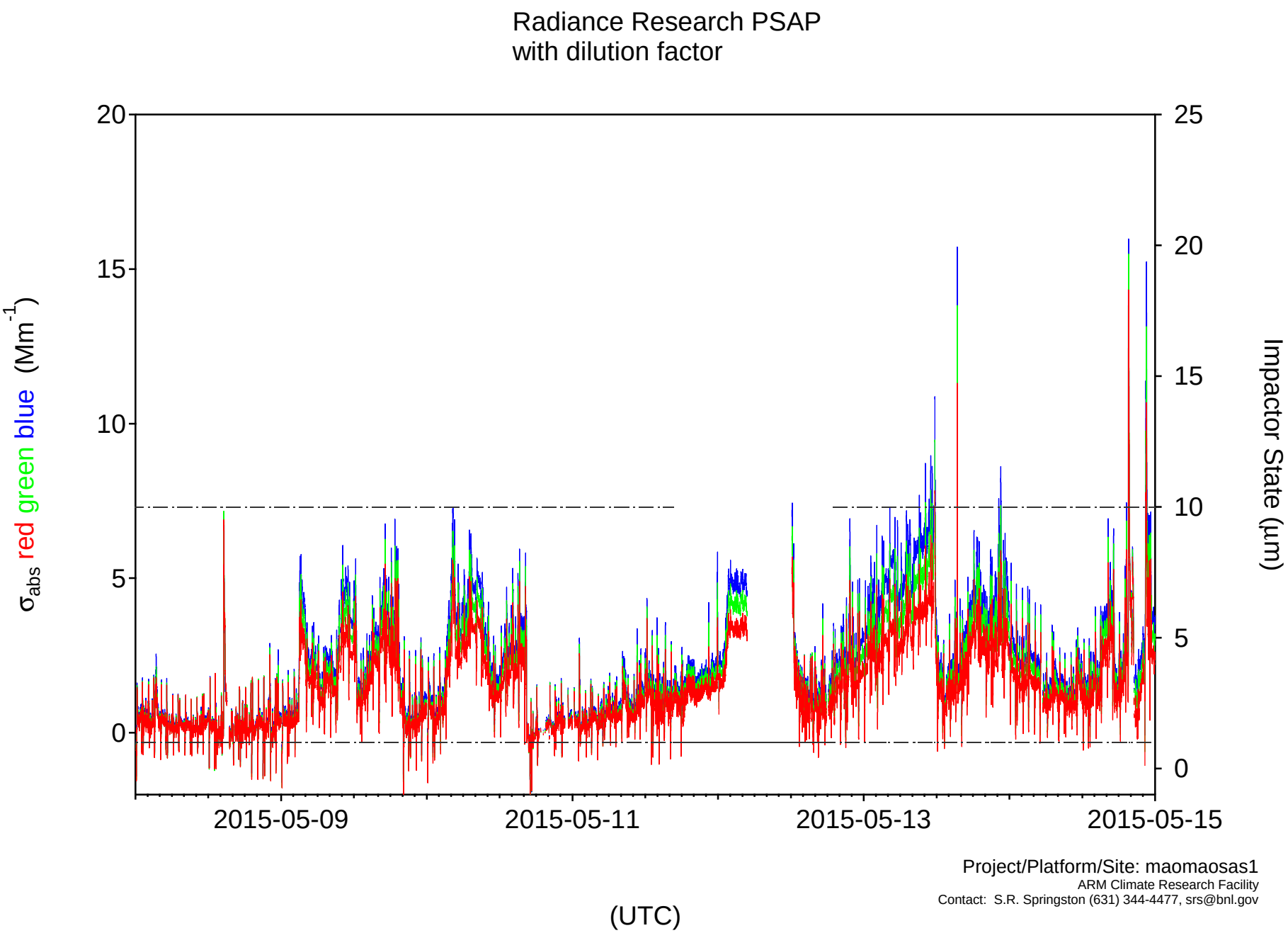
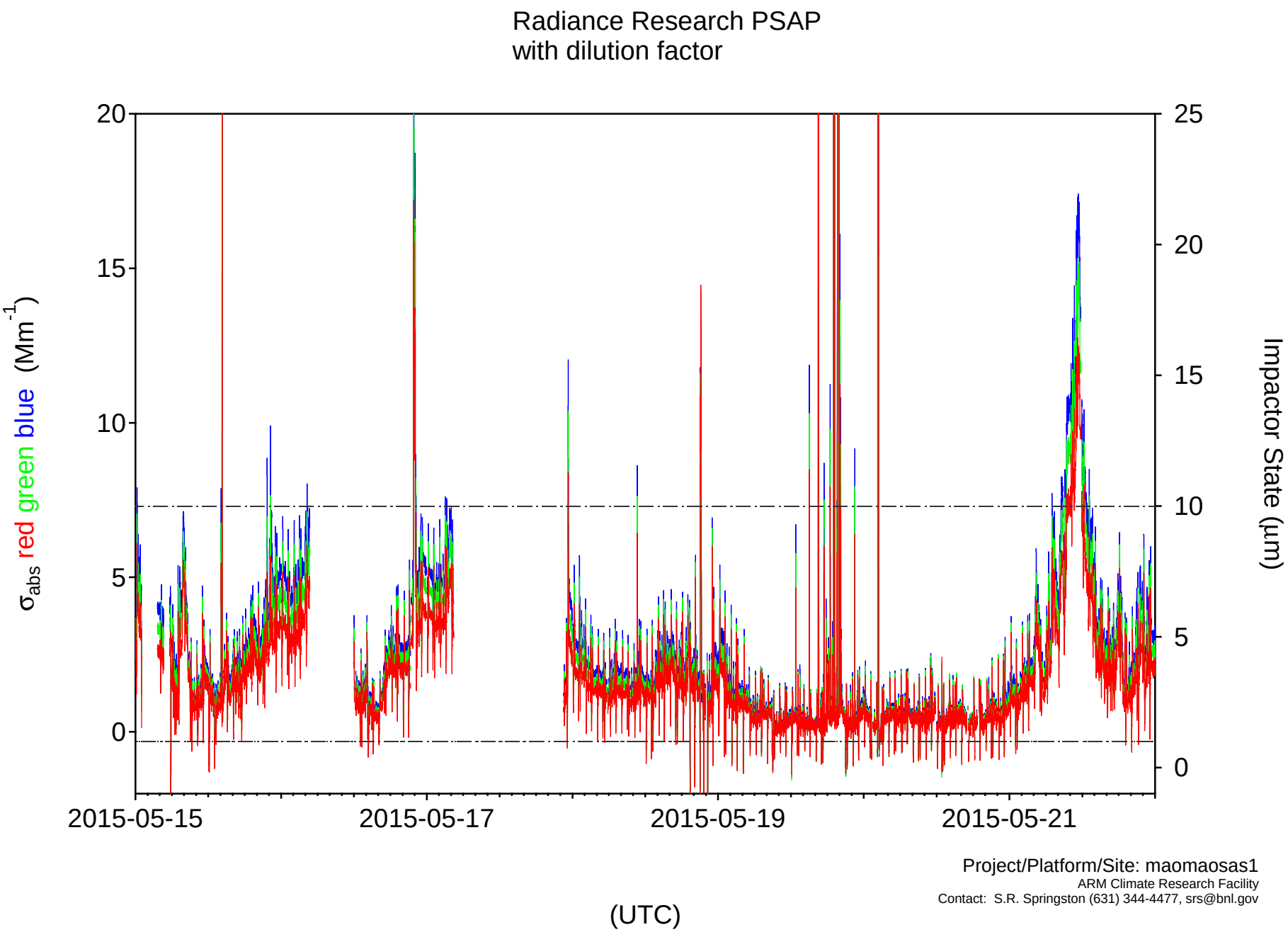

Radiance Research PSAP
with dilution factor
σabs red green blue (Mm-1)
Impactor State (µm)
20
15
10
5
0
25
20
15
10
5
0
2015-05-09
2015-05-11
2015-05-13
2015-05-15
(UTC)
Project/Platform/Site: maomaosas1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov


Radiance Research PSAP
with dilution factor
σabs red green blue (Mm-1)
Impactor State (µm)
20
15
10
5
0
25
20
15
10
5
0
2015-05-15
2015-05-17
2015-05-19
2015-05-21
(UTC)
Project/Platform/Site: maomaosas1
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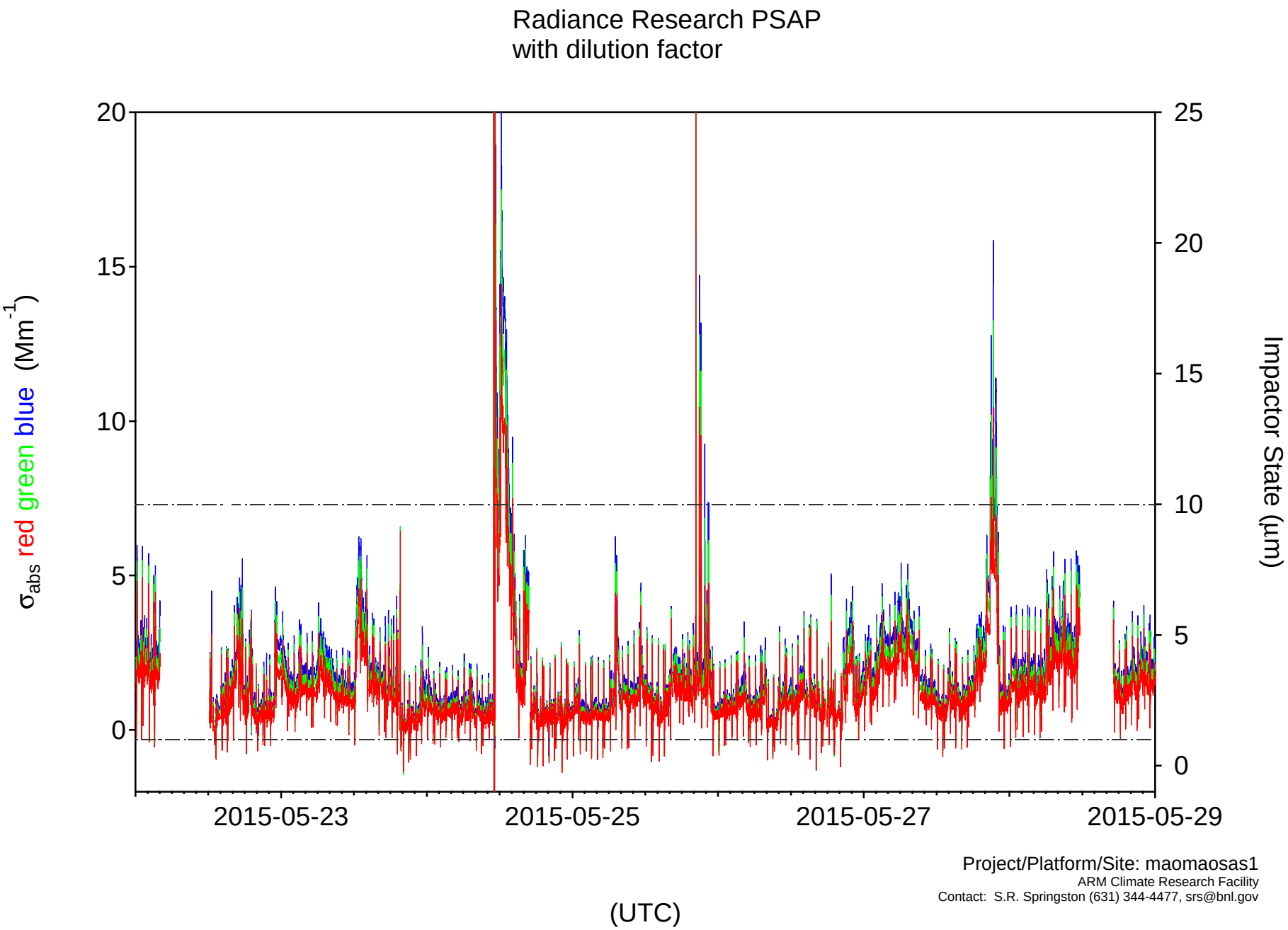
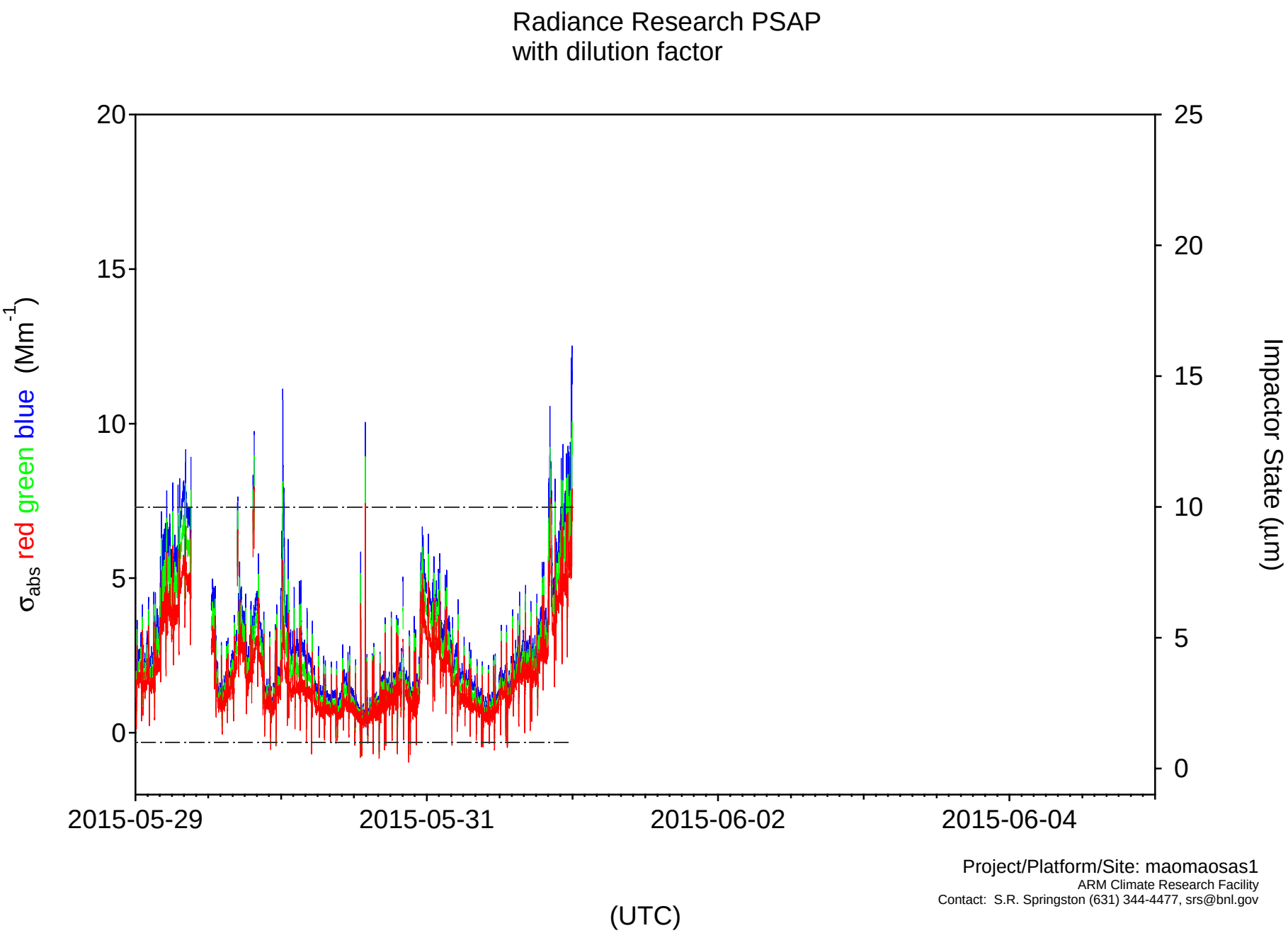

Radiance Research PSAP
with dilution factor
σabs red green blue (Mm-1)
Impactor State (µm)
20
15
10
5
0
25
20
15
10
5
0
2015-05-23
2015-05-25
2015-05-27
2015-05-29
(UTC)
Project/Platform/Site: maomaosas1
ARM Climate Research Facility
Contact: S.R. Springston (631) 344-4477, srs@bnl.gov


Radiance Research PSAP
with dilution factor
σabs red green blue (Mm-1)
Impactor State (µm)
20
15
10
5
0
25
20
15
10
5
0
2015-05-29
2015-05-31
2015-06-02
2015-06-04
(UTC)
Project/Platform/Site: maomaosas1
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