

# DQ EXPLORER

## ARM Data Quality Explorer

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### Request Selection

Site

Datastream

Facility

Level

Date Start

Date End

Please select: site

Add Request

### Added Requests

Add request for submission

Request: 0

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Submit Request

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### Request Selection

**Site**

**Datastream**

**Facility**

**Level**

**Date Start**

**Date End**

### Added Requests

|               |            |
|---------------|------------|
| nsa.met.C1.b1 | 01.01.2011 |
| nsa.met.C1.b1 | 01.02.2011 |
| nsa.met.C1.b1 | 01.03.2011 |
| nsa.met.C1.b1 | 01.04.2011 |

Request: 4

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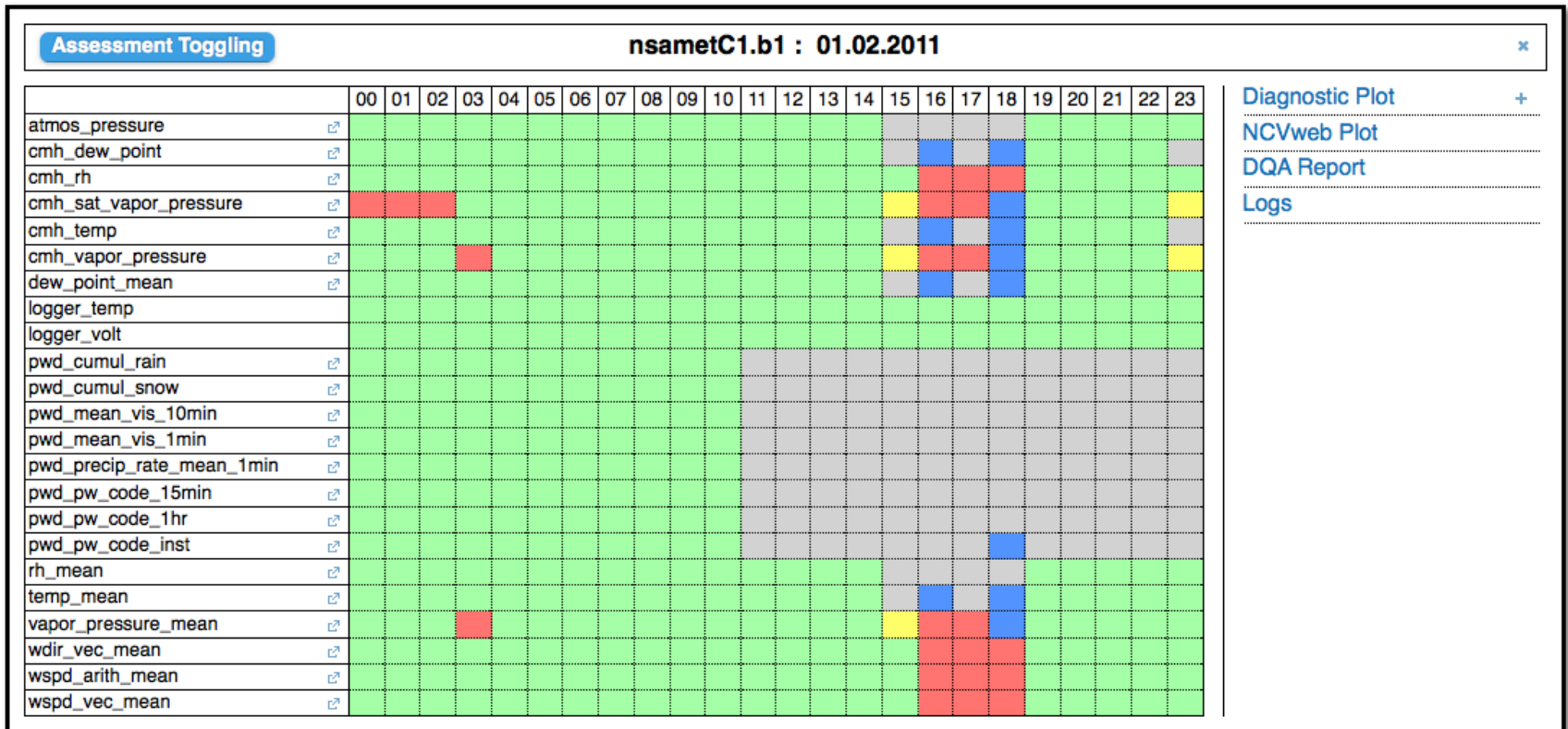
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Multiple

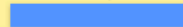
Good

Bad

Indeterminate

N/A

Missing

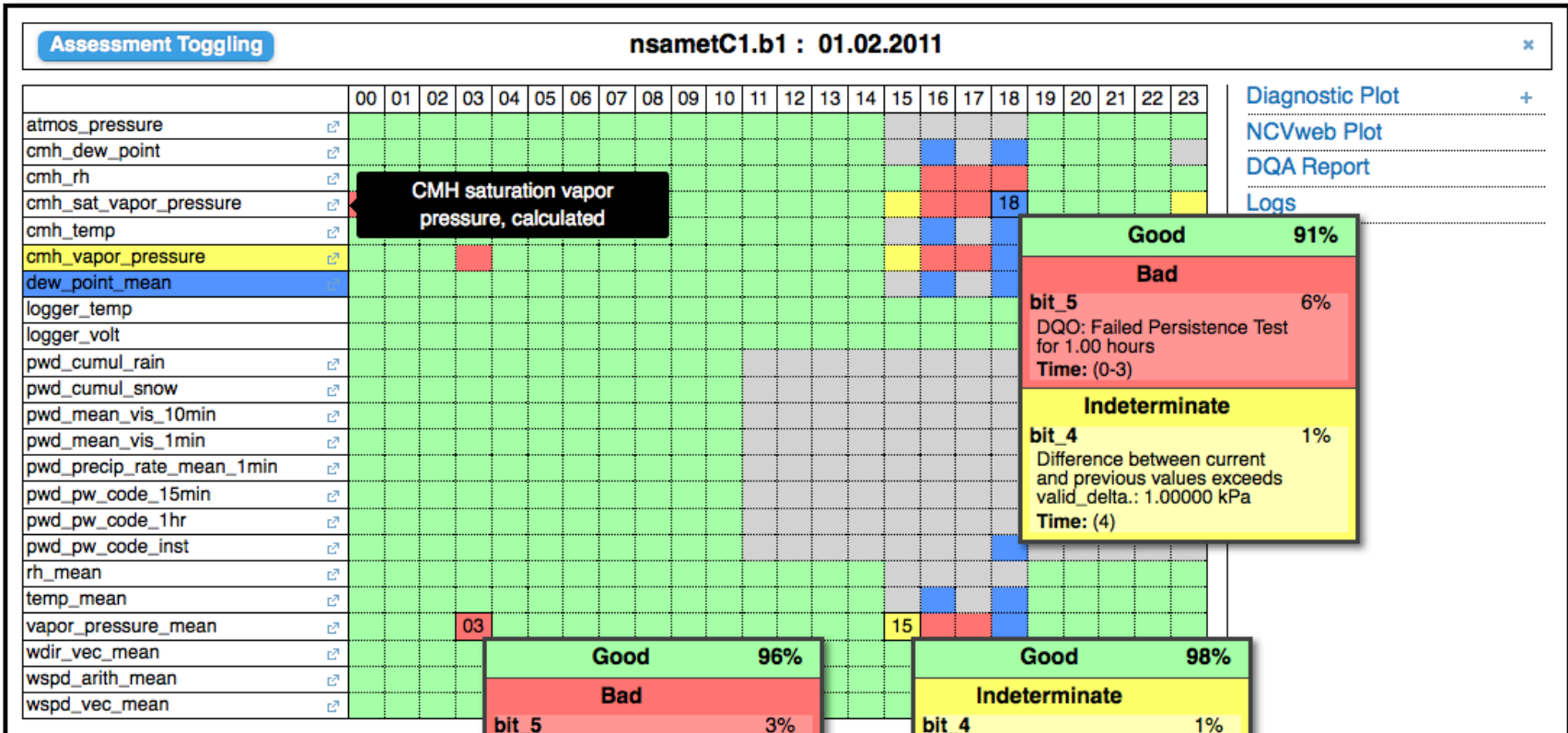


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## Field Metrics

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### cmh\_sat\_vapor\_pressure

nsametC1.b1 : 01.02.2011

|               | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Good          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Not Available |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Missing       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 2         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 3         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 4         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 5         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Value is less than the  
valid\_min.: 0.00100000 kPa

#### Field Attributes

Long Name  
CMH saturation vapor pressure, calculated

Missing Value  
-9999.0

Units  
kPa

Valid Delta  
1.0

Valid Max  
4.3

Valid Min  
0.001

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### cmh\_sat\_vapor\_pressure

nsametC1.b1 : 01.02.2011

|               | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Good          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Not Available |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Missing       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 2         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 3         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 4         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 5         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

70% : (18-59)

#### Field Attributes

Long Name  
CMH saturation vapor pressure, calculated

Missing Value  
-9999.0

Units  
kPa

Valid Delta  
1.0

Valid Max  
4.3

Valid Min  
0.001

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**Assessment Toggling** sgpbrsC1.b1 : 01.01.2011 ✕

|   | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| down_long_hemisp_shaded                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_long_netir                             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_short_diffuse_hemisp <a href="#">↗</a> |    |    |    |    |    |    |    |    |    |    |    |    |    | 13 |    |    |    |    |    |    |    |    |    |    |
| down_short_hemisp <a href="#">↗</a>         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| inst_down_long_shaded_case_temp             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| inst_down_long_shaded_dome_temp             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| short_direct_normal <a href="#">↗</a>       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| vBatt                                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Good 91%**

**Bad 8%**

**bit\_6**  
Failed 1-component test; higher than allowed maximum.  
Time: (44-48)

[Diagnostic Plot](#) +

[NCVweb Plot](#)

[DQA Report](#)

[CM Logs](#)

[Instrument Logs](#)

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**Assessment Toggling** sgpbrsC1.b1 : 01.02.2011 ✕

Bad

Indeterminate

|   | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| down_long_netir                             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_short_diffuse_hemisp <a href="#">↗</a> |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 14 |    |    |    |    |    |    |    |    |    |
| down_short_hemisp <a href="#">↗</a>         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| inst_down_long_shaded_case_temp             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| inst_down_long_shaded_dome_temp             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| short_direct_normal <a href="#">↗</a>       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| vBatt                                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Good 78%**

**Bad 21%**

**bit\_9**  
Parameter too high by 3-component test (Kt=Kn+Kd)  
Time: (47-59)

[Diagnostic Plot](#) +

[NCVweb Plot](#)

[DQA Report](#)

[CM Logs](#)

[Instrument Logs](#)

[PM Logs](#)

**Assessment Toggling** sgpbrsC1.b1 : 01.03.2011 ✕

|                         | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| down_long_hemisp_shaded |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_long_netir         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

[Diagnostic Plot](#) +

[NCVweb Plot](#)

Legend





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Assessment Toggling
sgpbsC1.b1 : 01.03.2011 ×

|   | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| down_long_hemisp_shaded                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_long_netir                             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_short_diffuse_hemisp <a href="#">↗</a> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| down_short_hemisp <a href="#">↗</a>         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| inst_down_long_shaded_case_temp             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| inst_down_long_shaded_dome_temp             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| short_direct_normal <a href="#">↗</a>       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| vBatt                                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Shortwave Direct Normal Irradiance, Pyrheliometer

[Diagnostic Plot](#) +

[NCVweb Plot](#)

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**Good** 40%

**Bad**

**bit\_9** 60%

Parameter too high by 3-component test ( $K_t=K_n+K_d$ )

**Time:**  
(1-4,6,8,13-14,16-24,27-28,31,36-37,41-42,44,49-59)

**Indeterminate**

**bit\_19** 1%

DQO: Failed Comparison Test with sgpsirsC1.b1-short\_direct\_normal: difference > 15

**Time:** (24)

**bit\_20** 1%

DQO: Failed Comparison Test with sgpsirsE13.b1-short\_direct\_normal: difference > 15

**Time:** (24)

Legend



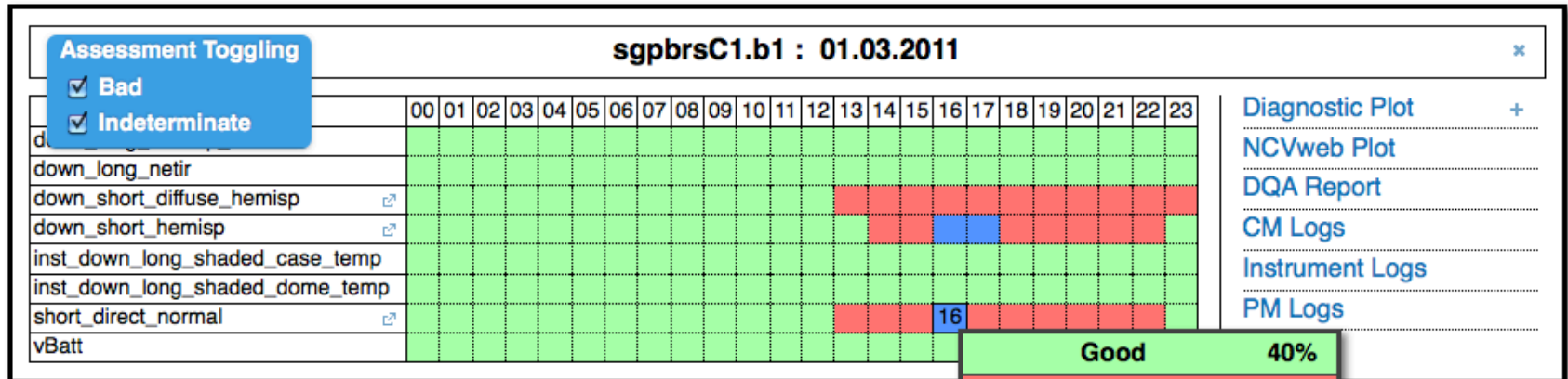


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|   |            |
|---|------------|
| <b>Good</b>   | <b>40%</b> |
| <b>Bad</b>  |            |
| <b>bit_9</b> <span style="float: right;">60%</span><br>Parameter too high by<br>3-component test ( $K_t=K_n+K_d$ )<br><b>Time:</b><br>(1-4,6,8,13-14,16-24,27-28,31,36-37,41-42,44,49-59) |            |
| <b>Indeterminate</b>  |            |
| <b>bit_19</b> <span style="float: right;">1%</span><br>DQO: Failed Comparison Test<br>with sgpsirsC1.b1-<br>short_direct_normal:<br>difference > 15<br><b>Time:</b> (24)                  |            |
| <b>bit_20</b> <span style="float: right;">1%</span><br>DQO: Failed Comparison Test<br>with sgpsirsE13.b1-<br>short_direct_normal:<br>difference > 15<br><b>Time:</b> (24)                 |            |

Legend



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### short\_direct\_normal

sgpbrsC1.b1 : 01.03.2011

|               | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Good          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Not Available |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 10        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 11        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 12        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 13        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 14        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 15        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 18        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 19        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Missing       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 20        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 5         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 6         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 7         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 8         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bit 9         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

DQO: Failed Comparison Test with sgpsirsE13.b1 - short\_direct\_normal: difference > 15

**Field Attributes**

Long Name  
Shortwave Direct Normal Irradiance, Pyrheliometer

Missing Value  
-9999.0

Resolution  
0.1

Units  
W/m^2

Legend