Hobby-Eberly Telescope Site Status Report *
McDonald Observatory, University of Texas at Austin

2020-10-21 10:21:37 to 2020-10-22 12:00:01 UTC

Contents

1 Trajectories **2**
- 1.1 718 . . . 2
- 1.2 816 . . . 2
- 1.3 165 . . . 2
- 1.4 779 . . . 3
- 1.5 125 . . . 3
- 1.6 692 . . . 3
- 1.7 932 . . . 3
- 1.8 925 . . . 4
- 1.9 726 . . . 4
- 1.10 393 . . . 4
- 1.11 17 . . . 5
- 1.12 829 . . . 5
- 1.13 316 . . . 5
- 1.14 784 . . . 6
- 1.15 298 . . . 6
- 1.16 570 . . . 6
- 1.17 836 . . . 7
- 1.18 656 . . . 7
- 1.19 11 . . . 7
- 1.20 767 . . . 8
- 1.21 286 . . . 8
- 1.22 520 . . . 8

2 Spectrographs **9**
- 2.1 Legend . . . 9
- 2.2 lrs2 . . . 9
- 2.3 virus . . . 9

3 Weather **28**

4 Virus Enclosures **29**

5 Server Up Time **30**

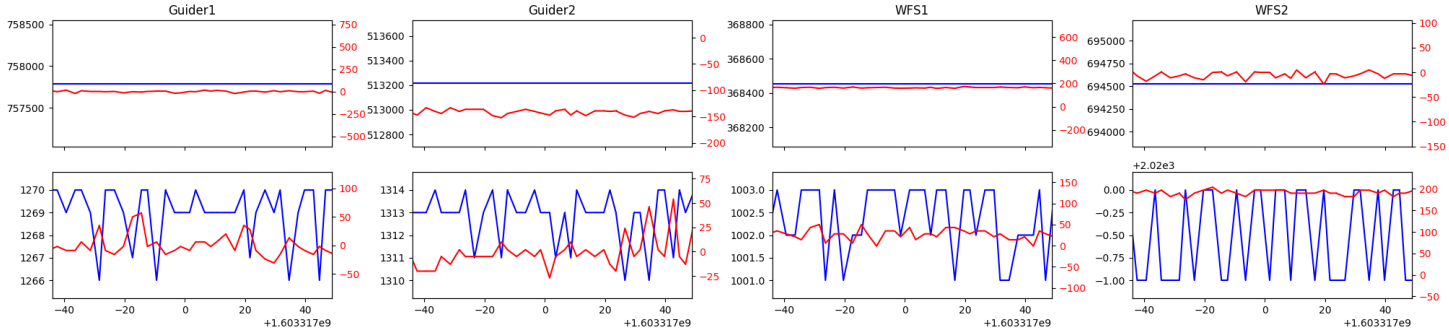
*This report has been automatically generated. Id: status_report.py 11785 2020-07-03 20:09:14Z fowler

1 Trajectories

The trajectory times and probe behaviour are shown. The probe plots show the various probe positions and currents during the trajectory. The Carriage is shown on the top plot while the Arm is shown on the botton plot. Encoder positions are shown in blue on the left hand vertical axis and the Current is shown in red on the right hand vertical axis. Probe data are plotted from the gonext_time to the cancel_time or stop_time of the trajectory.

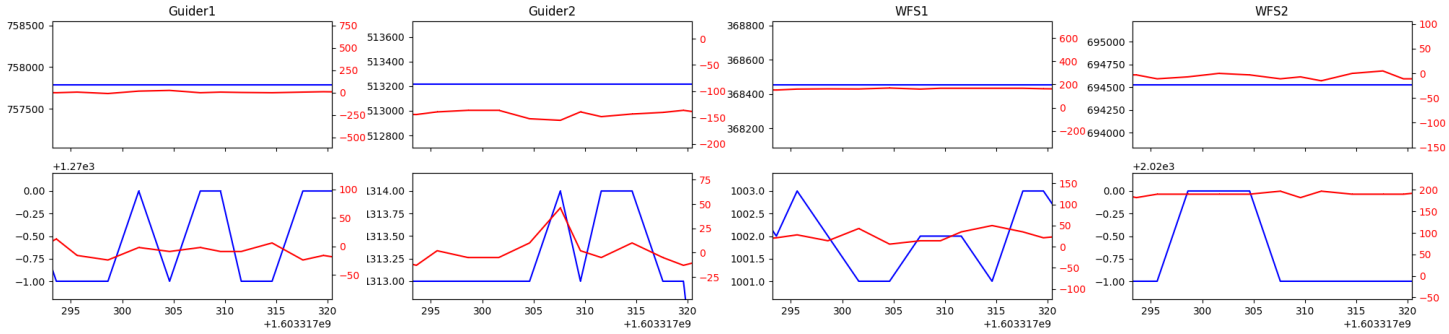
1.1 718

Trajectory 718 for desired Azimuth 65.453 was loaded at 21:47:53.54. The go_next command was sent at 21:47:54.317 and took 121.971 seconds to complete. The trajectory was cancelled at 21:50:48.82. The trajectory was stopped at 21:50:53.78 with the message "Reached end of track.".



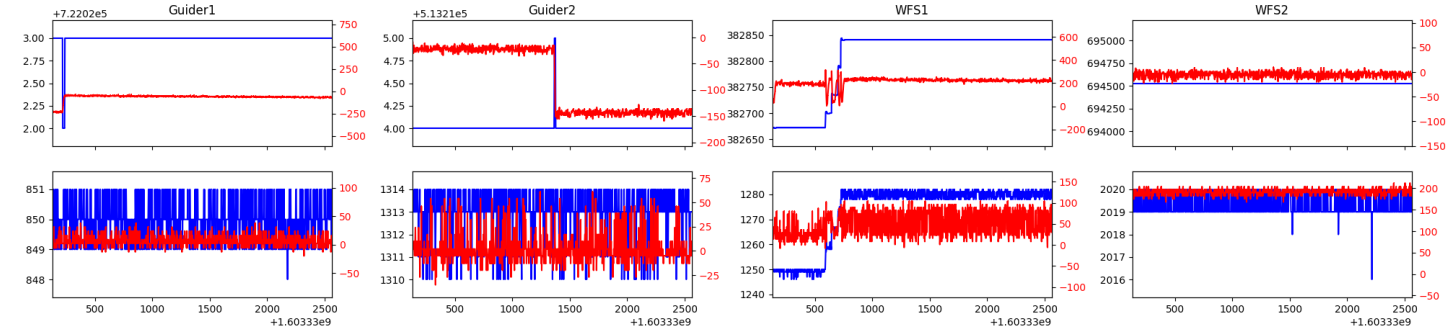
1.2 816

Trajectory 816 for desired Azimuth 180.35424 was loaded at 21:54:03.10. The go_next command was sent at 21:54:03.112 and took 50.062 seconds to complete. The trajectory was cancelled at 21:55:20.40. The trajectory was stopped at 21:55:25.95 with the message "Reached end of track.".



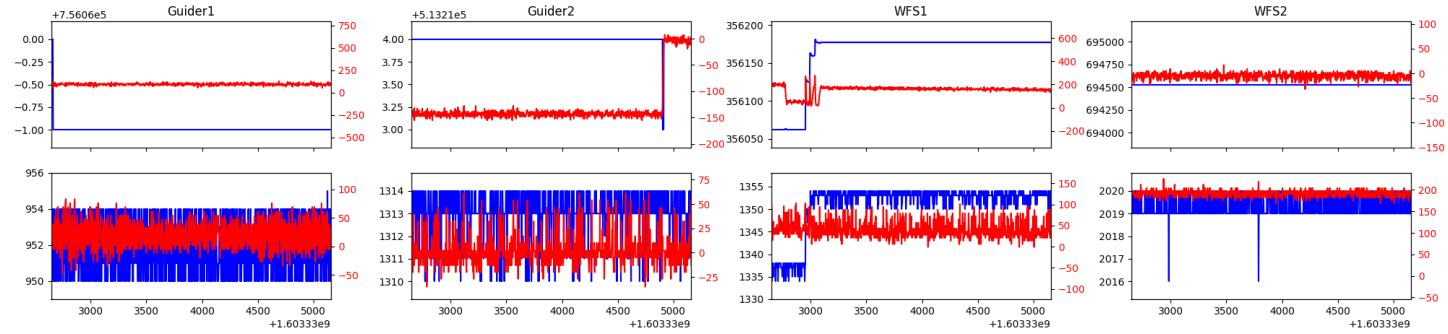
1.3 165

Trajectory 165 for desired Azimuth 228.285443 was loaded at 01:27:04.52. The go_next command was sent at 01:27:11.575 and took 168.007 seconds to complete. The setup took 280.34 seconds at an actual azimuth of 228.289779 The trajectory was cancelled at 02:09:22.64. The trajectory was stopped at 02:09:28.16 with the message "Reached end of track.".



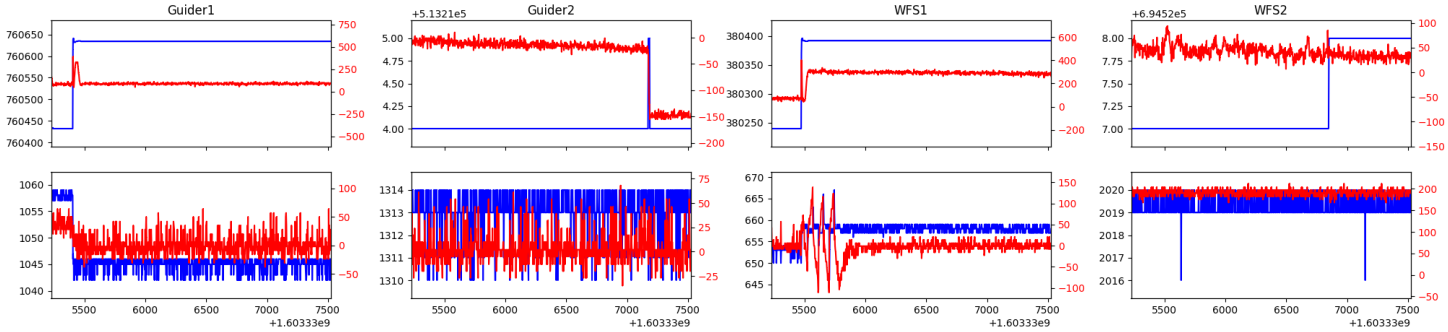
1.4 779

Trajectory 779 for desired Azimuth 55.627361 was loaded at 02:09:30.05. The go_next command was sent at 02:09:37.102 and took 178.197 seconds to complete. The setup took 283.09 seconds at an actual azimuth of 55.628056 The trajectory was cancelled at 02:52:36.38. The trajectory was stopped at 02:52:41.99 with the message "Reached end of track.".



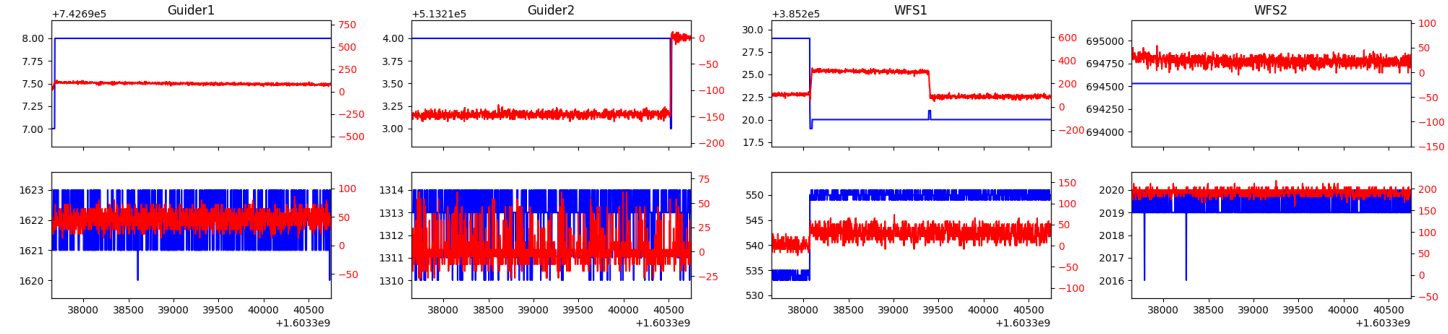
1.5 125

Trajectory 125 for desired Azimuth 306.54724 was loaded at 02:52:43.83. The go_next command was sent at 02:52:50.893 and took 127.914 seconds to complete. The setup took 151.59 seconds at an actual azimuth of 306.550441 The trajectory was cancelled at 03:32:04.66. The trajectory was stopped at 03:32:09.42 with the message "Reached end of track.".



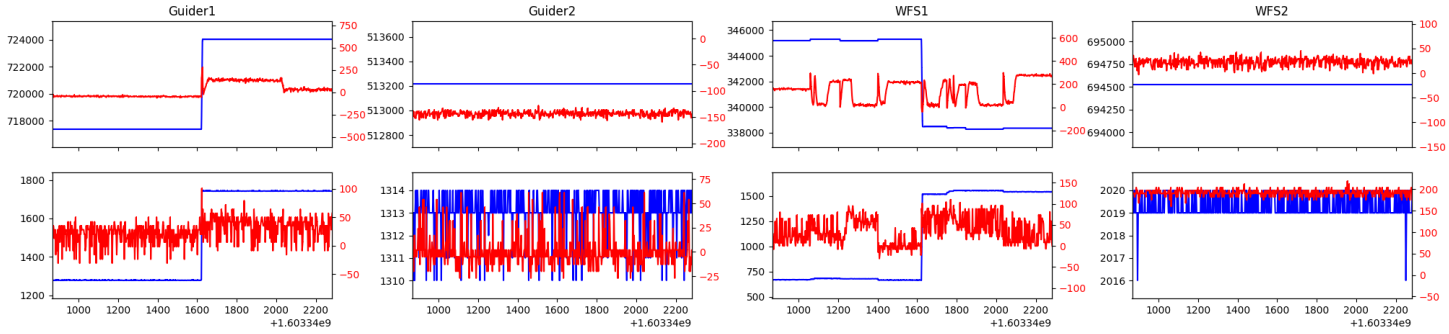
1.6 692

Trajectory 692 for desired Azimuth 98.758557 was loaded at 03:32:11.19. The go_next command was sent at 03:32:18.223 and took 158.333 seconds to complete. The setup took 103.54 seconds at an actual azimuth of 98.764058 The trajectory was cancelled at 04:25:48.64. The trajectory was stopped at 04:25:54.21 with the message "Reached end of track.".



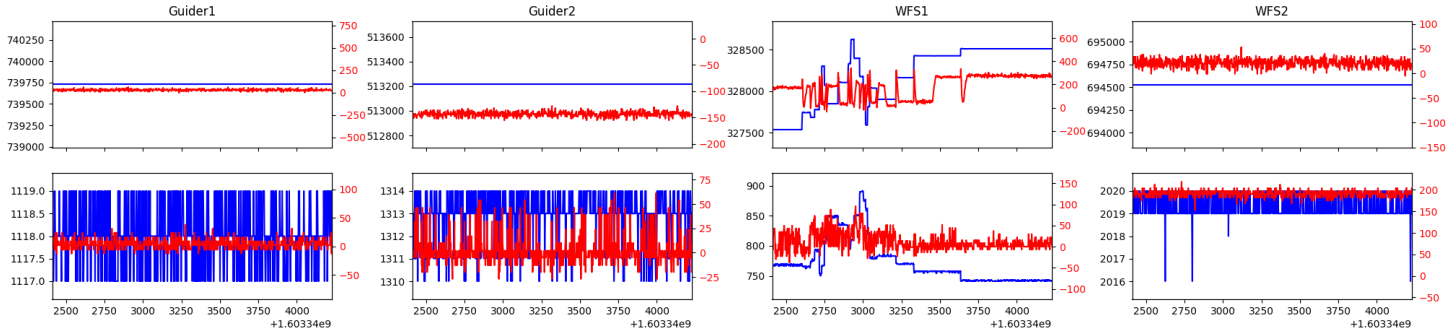
1.7 932

Trajectory 932 for desired Azimuth 242.846311 was loaded at 04:25:56.02. The go_next command was sent at 04:26:04.992 and took 158.643 seconds to complete. The setup took 757.60 seconds at an actual azimuth of 242.850192 The trajectory was cancelled at 04:51:22.19. The trajectory was stopped at 04:51:27.78 with the message "Reached end of track.".



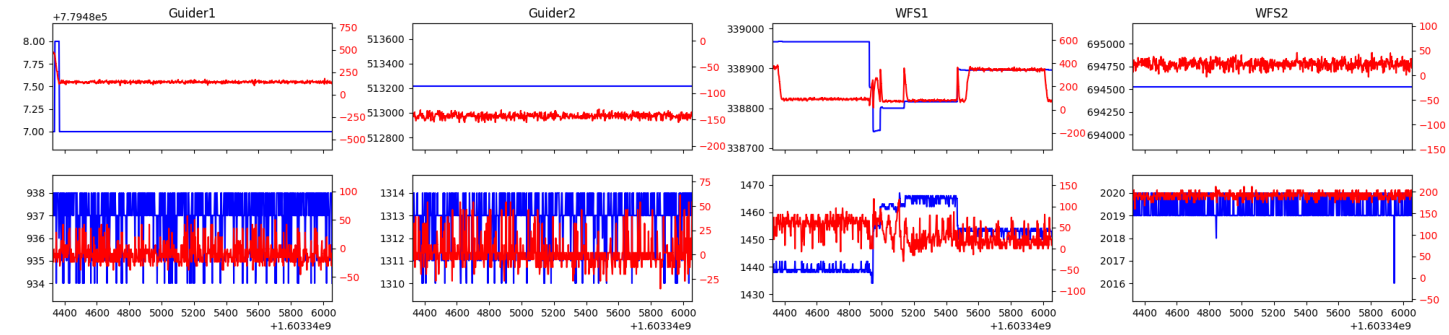
1.8 925

Trajectory 925 for desired Azimuth 144.555 was loaded at 04:51:28.08. The go_next command was sent at 04:51:30.872 and took 119.493 seconds to complete. The setup took 157.56 seconds at an actual azimuth of 144.558247 The trajectory was cancelled at 05:23:47.53. The trajectory was stopped at 05:23:52.79 with the message "Reached end of track.".



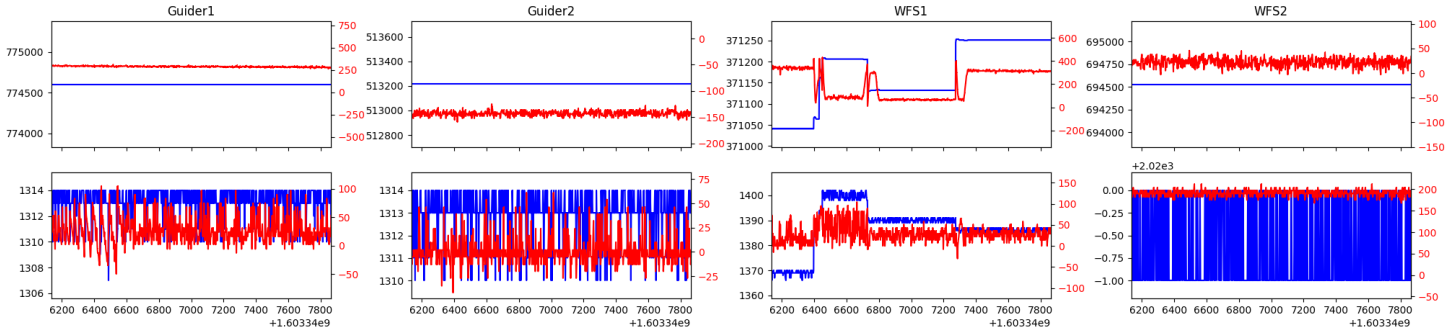
1.9 726

Trajectory 726 for desired Azimuth 144.558 was loaded at 05:23:53.12. The go_next command was sent at 05:23:55.142 and took 88.369 seconds to complete. The setup took 79.46 seconds at an actual azimuth of 144.558047 The trajectory was cancelled at 05:54:13.21. The trajectory was stopped at 05:54:18.33 with the message "Reached end of track.".



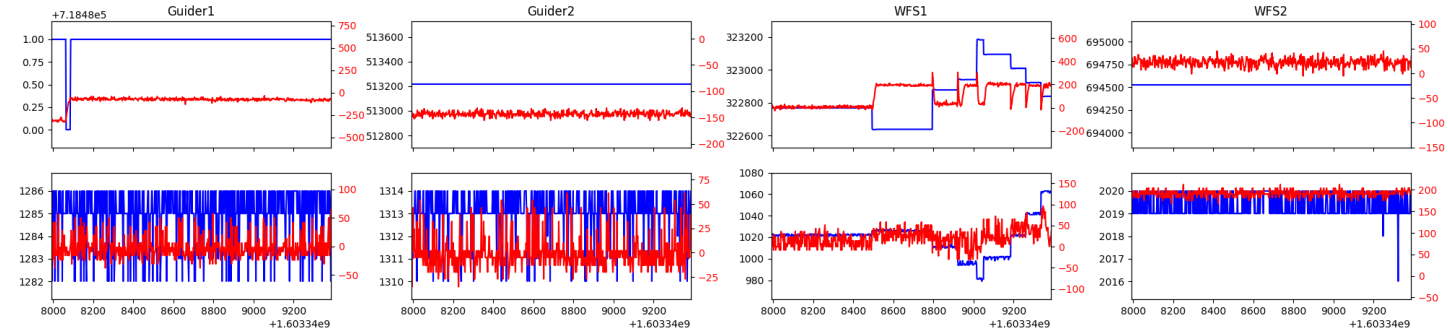
1.10 393

Trajectory 393 for desired Azimuth 144.558 was loaded at 05:54:18.66. The go_next command was sent at 05:54:20.744 and took 73.156 seconds to complete. The setup took 74.26 seconds at an actual azimuth of 144.558047 The trajectory was cancelled at 06:24:23.30. The trajectory was stopped at 06:24:28.49 with the message "Reached end of track.".



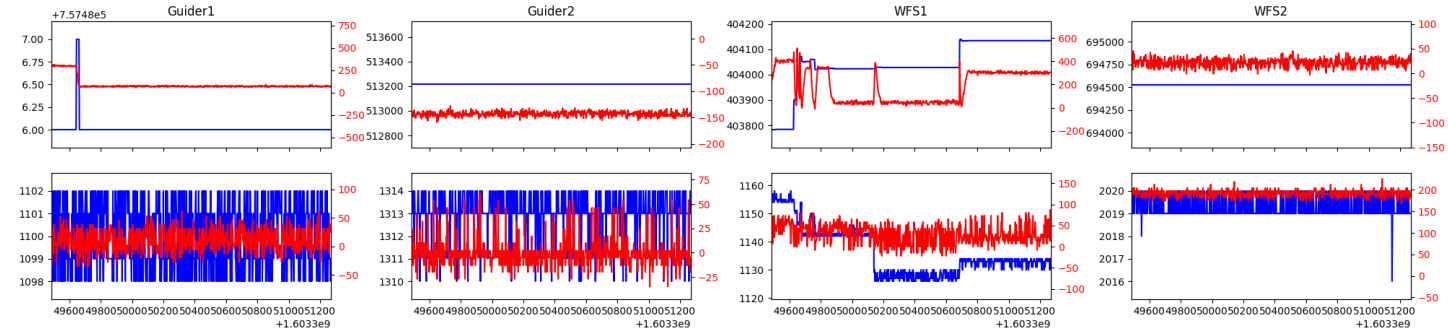
1.11 17

Trajectory 17 for desired Azimuth 208.526 was loaded at 06:24:28.81. The go_next command was sent at 06:24:31.053 and took 119.355 seconds to complete. The setup took 101.60 seconds at an actual azimuth of 208.528896 The trajectory was cancelled at 06:49:46.66. The trajectory was stopped at 06:49:52.30 with the message "Reached end of track.".



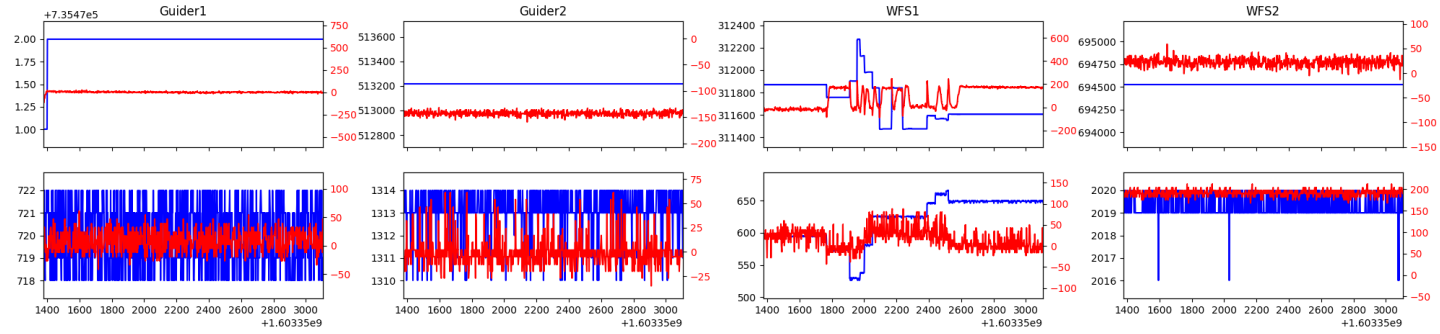
1.12 829

Trajectory 829 for desired Azimuth 208.529 was loaded at 06:49:52.60. The go_next command was sent at 06:49:54.992 and took 88.673 seconds to complete. The setup took 133.96 seconds at an actual azimuth of 208.528896 The trajectory was cancelled at 07:21:09.59. The trajectory was stopped at 07:21:15.29 with the message "Reached end of track.".



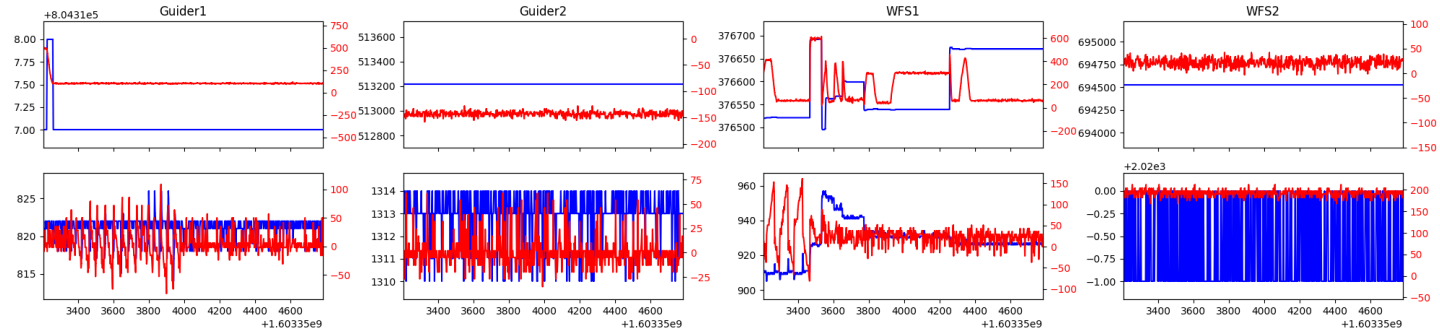
1.13 316

Trajectory 316 for desired Azimuth 208.5289 was loaded at 07:21:15.59. The go_next command was sent at 07:21:17.772 and took 97.886 seconds to complete. The setup took 77.70 seconds at an actual azimuth of 208.528896 The trajectory was cancelled at 07:51:45.47. The trajectory was stopped at 07:51:51.23 with the message "Reached end of track.".



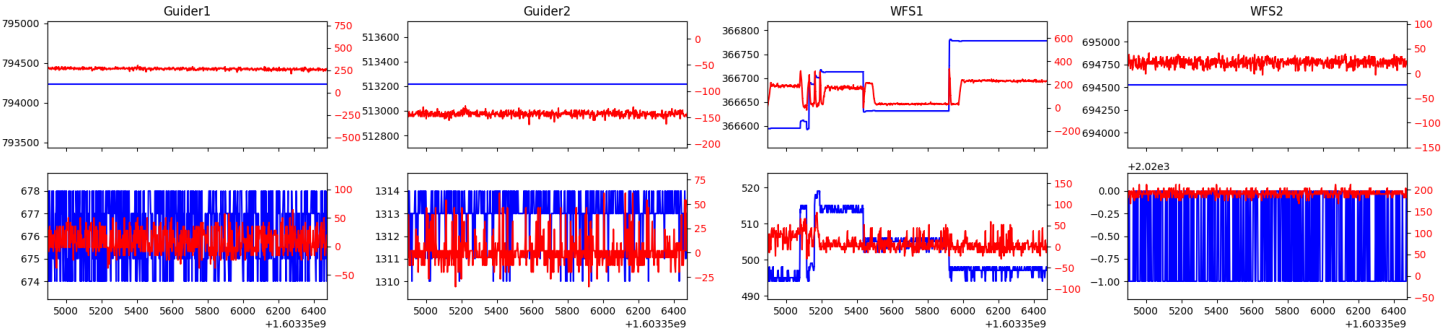
1.14 784

Trajectory 784 for desired Azimuth 208.5289 was loaded at 07:51:51.55. The go_next command was sent at 07:51:53.622 and took 88.926 seconds to complete. The setup took 107.98 seconds at an actual azimuth of 208.528896 The trajectory was cancelled at 08:19:43.60. The trajectory was stopped at 08:19:48.74 with the message "Reached end of track.".



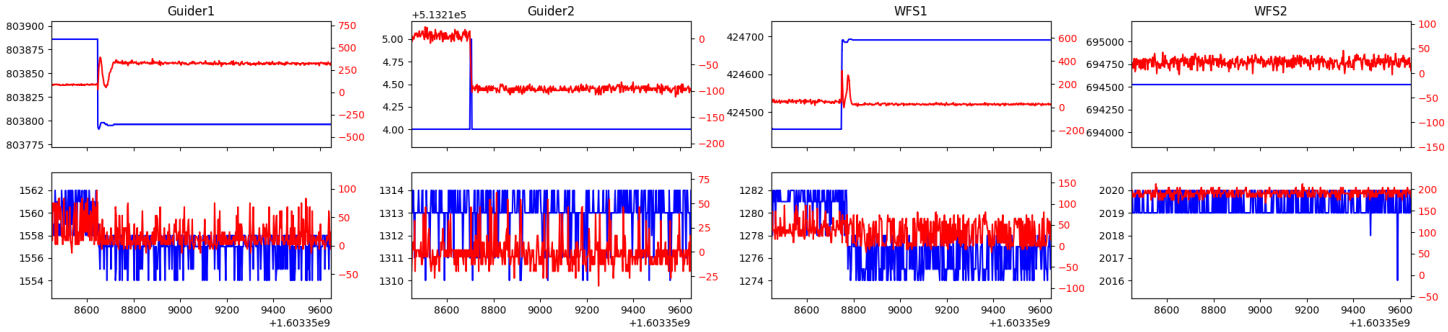
1.15 298

Trajectory 298 for desired Azimuth 217.3348 was loaded at 08:19:49.04. The go_next command was sent at 08:19:51.205 and took 102.388 seconds to complete. The setup took 80.36 seconds at an actual azimuth of 217.338335 The trajectory was cancelled at 08:47:53.17. The trajectory was stopped at 08:47:58.00 with the message "Reached end of track.".



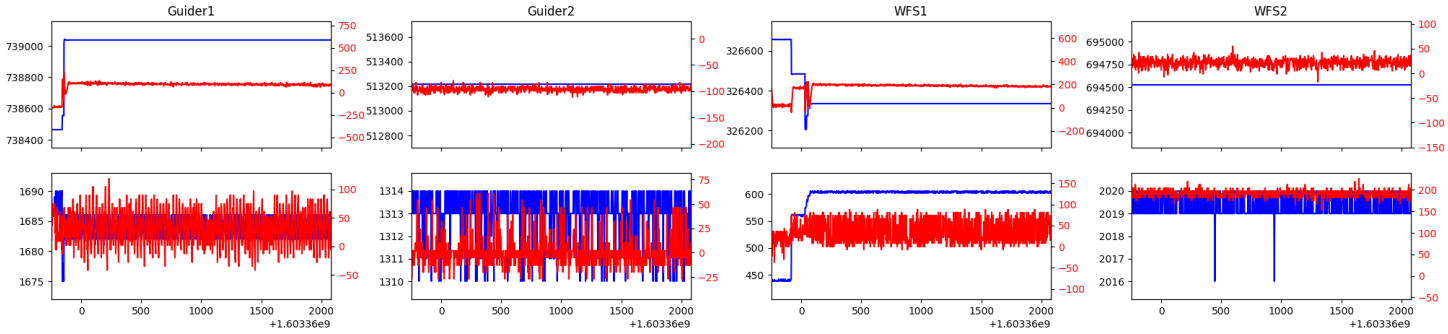
1.16 570

Trajectory 570 for desired Azimuth 278.732964 was loaded at 09:18:54.84. The go_next command was sent at 09:19:01.863 and took 159.887 seconds to complete. The setup took 159.99 seconds at an actual azimuth of 278.734417 The trajectory was cancelled at 09:40:47.76. The trajectory was stopped at 09:40:53.41 with the message "Reached end of track.".



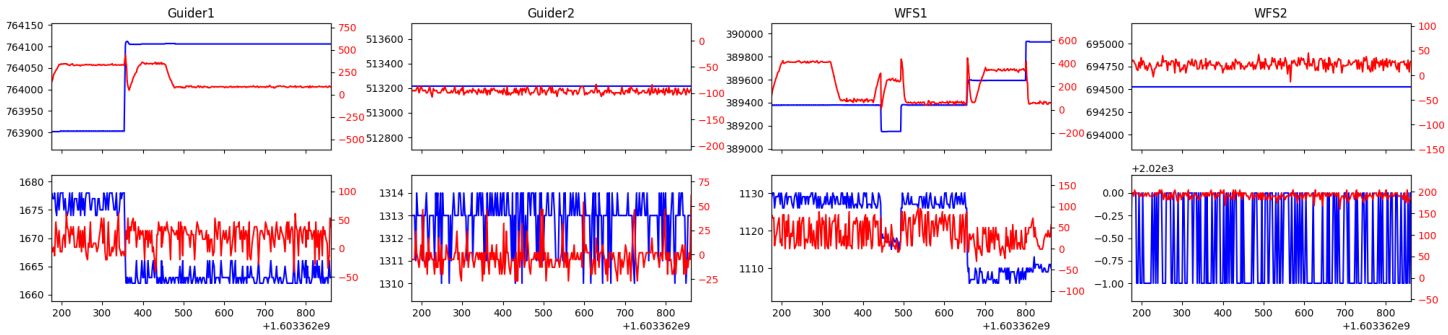
1.17 836

Trajectory 836 for desired Azimuth 255.102266 was loaded at 09:40:55.40. The go_next command was sent at 09:41:02.818 and took 87.976 seconds to complete. The setup took 208.45 seconds at an actual azimuth of 255.106258 The trajectory was cancelled at 10:21:18.96. The trajectory was stopped at 10:21:24.23 with the message "Reached end of track.".



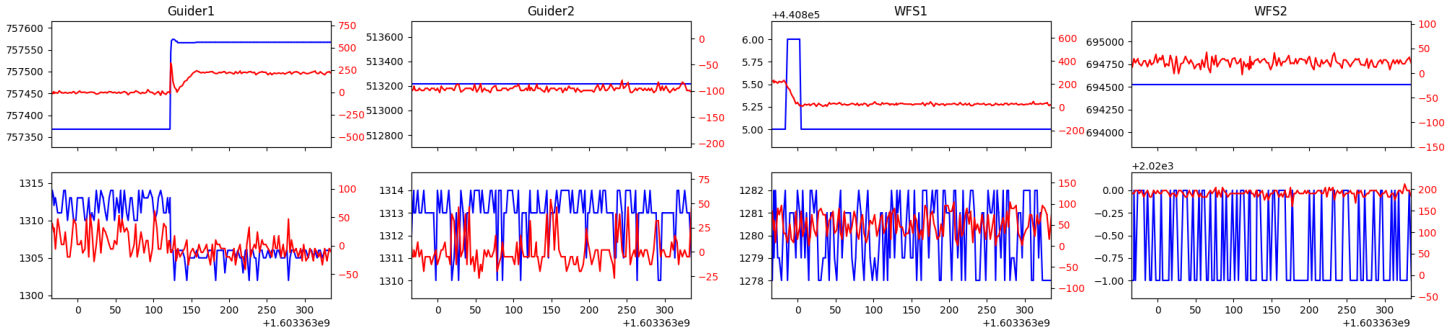
1.18 656

Trajectory 656 for desired Azimuth 40.528194 was loaded at 10:21:26.44. The go_next command was sent at 10:21:34.155 and took 153.973 seconds to complete. The setup took 140.13 seconds at an actual azimuth of 40.528665 The trajectory was cancelled at 10:34:21.88. The trajectory was stopped at 10:34:26.89 with the message "Reached end of track.".



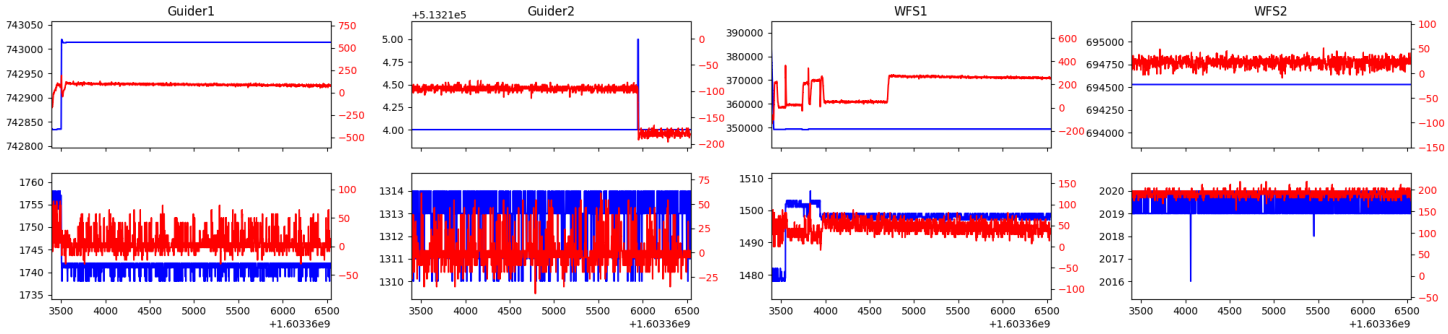
1.19 11

Trajectory 11 for desired Azimuth 282.383807 was loaded at 10:34:29.22. The go_next command was sent at 10:34:38.261 and took 137.989 seconds to complete. The setup took 153.31 seconds at an actual azimuth of 282.387709 The trajectory was cancelled at 10:42:14.37. The trajectory was stopped at 10:42:20.13 with the message "Reached end of track.".



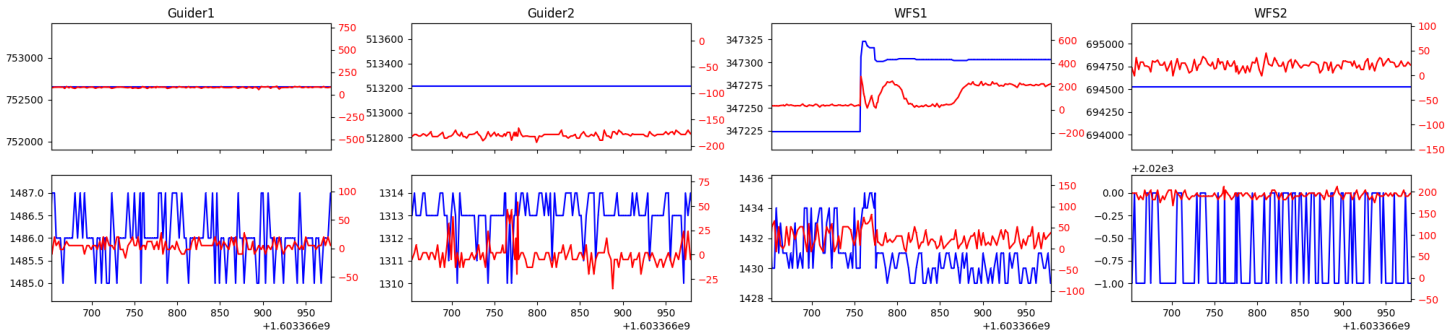
1.20 767

Trajectory 767 for desired Azimuth 282.432541 was loaded at 10:42:21.94. The go_next command was sent at 10:42:29.094 and took 73.597 seconds to complete. The setup took 129.72 seconds at an actual azimuth of 282.435452 The trajectory was cancelled at 11:35:42.03. The trajectory was stopped at 11:35:47.34 with the message "Reached end of track.".



1.21 286

Trajectory 286 for desired Azimuth 237.134031 was loaded at 11:35:49.16. The go_next command was sent at 11:35:56.826 and took 96.048 seconds to complete. The setup took 86.71 seconds at an actual azimuth of 237.137895 The trajectory was cancelled at 11:42:59.67. The trajectory was stopped at 11:43:04.94 with the message "Reached end of track.".



1.22 520

Trajectory 520 for desired Azimuth 276.434606 was loaded at 11:43:06.71. The go_next command was sent at 11:43:13.802 and took 86.473 seconds to complete. The setup took 291.89 seconds at an actual azimuth of 276.435736

2 Spectrographs

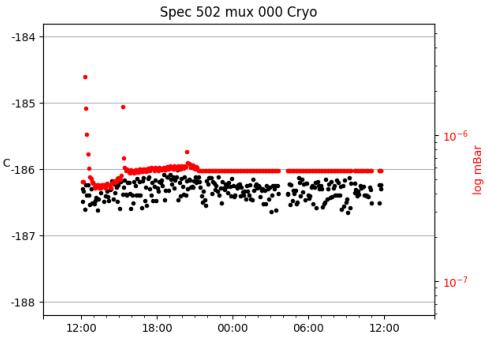
2.1 Legend

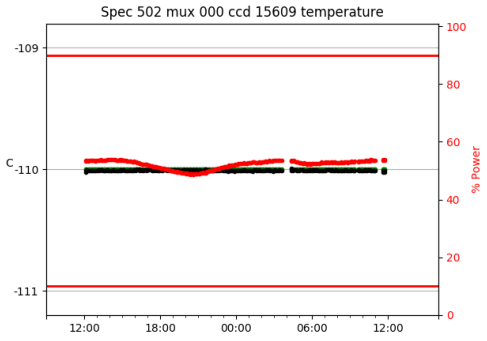
For the Spectrograph Cryo plots the Black point are the cryo temperature reading and the Red points are the cryo pressure in Torr on a log scale with the scale on the right hand vertical axis.

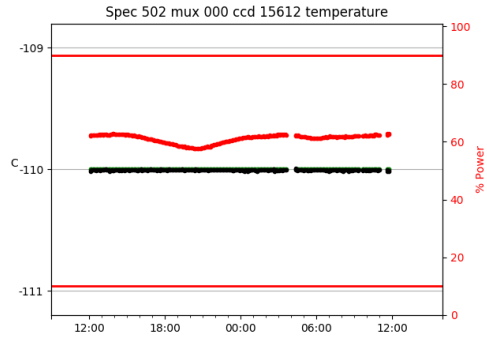
For all Spectrograph Temperature plots, the Black points are the ccd temperature reading, the Green points are the ccd set point, and the Red points are the percentage heater power with the scale on the right hand vertical axis. The two straight Red lines are the 5% and 95% power levels for the heater.

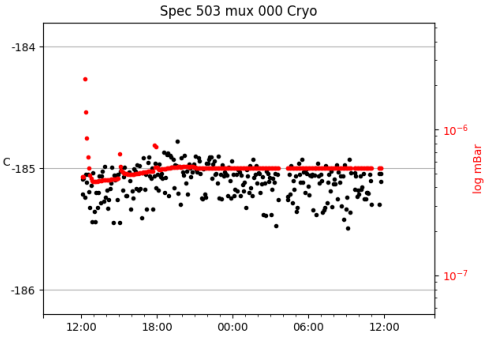
2.2 lrs2

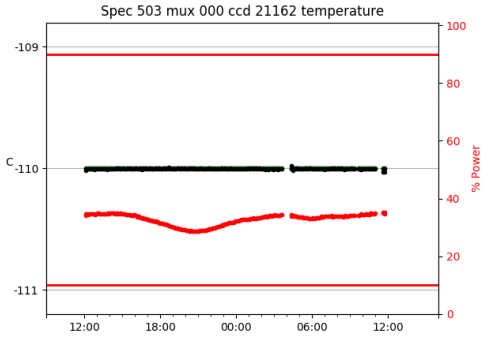
lrs2 uptime: 1311:48:32 (hh:mm:ss)

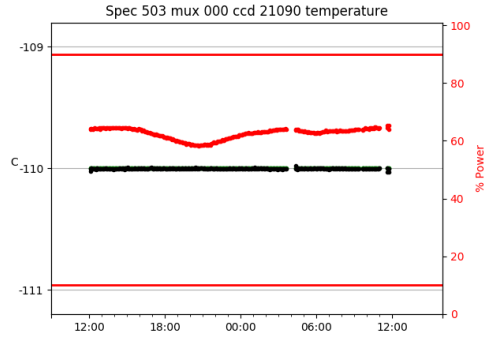






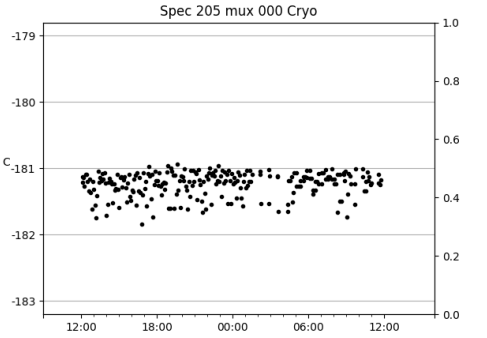


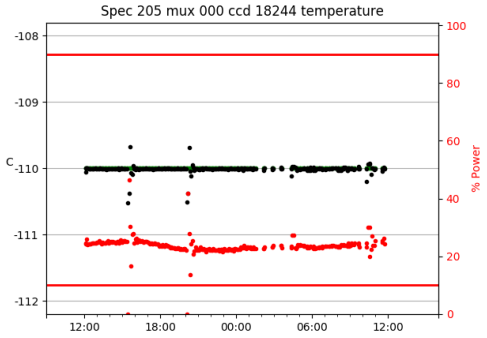


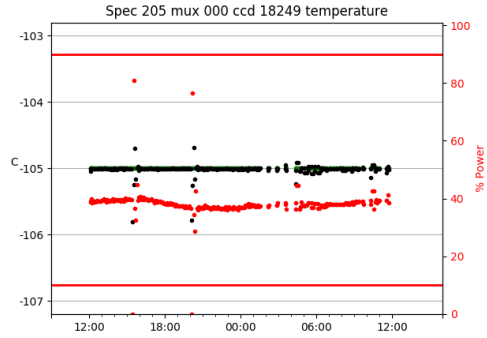


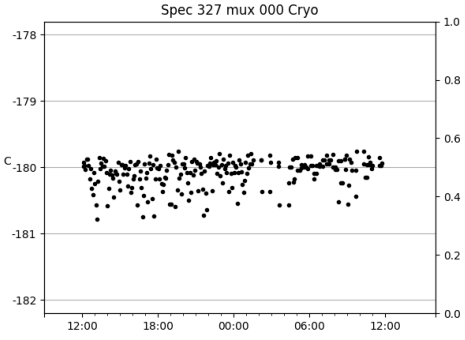
2.3 virus

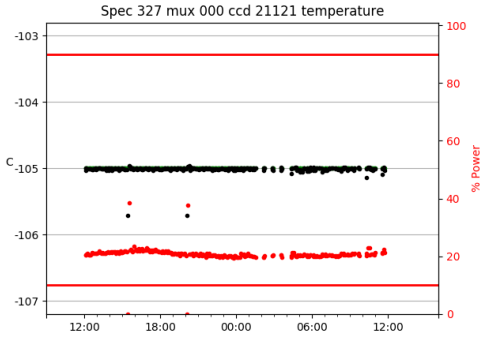
virus uptime: 17:40:53 (hh:mm:ss)

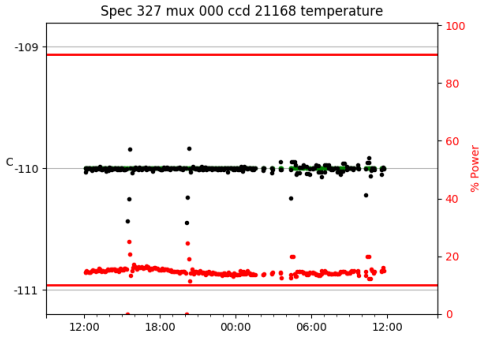


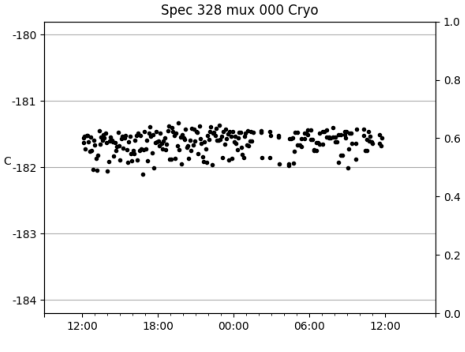


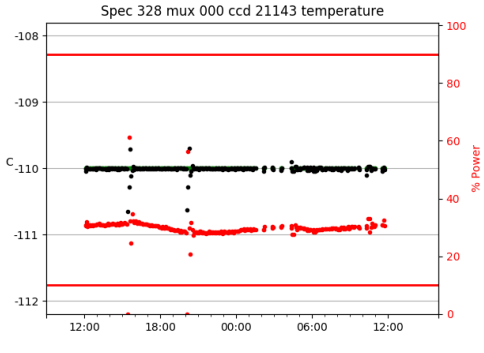


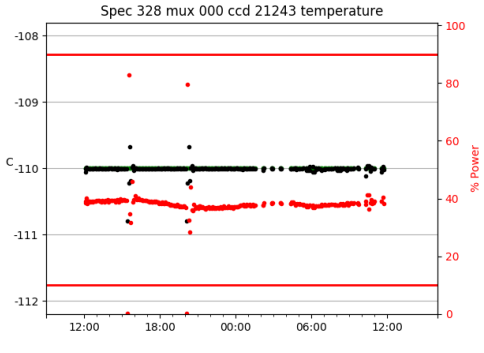

Spec 327 mux 000 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

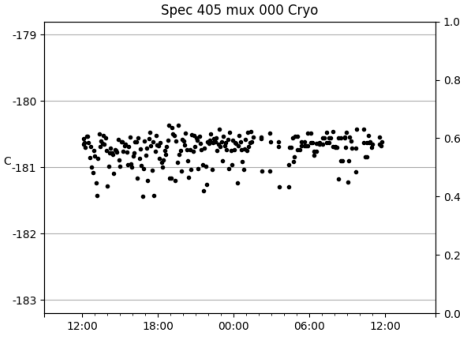

Spec 327 mux 000 ccd 21121 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

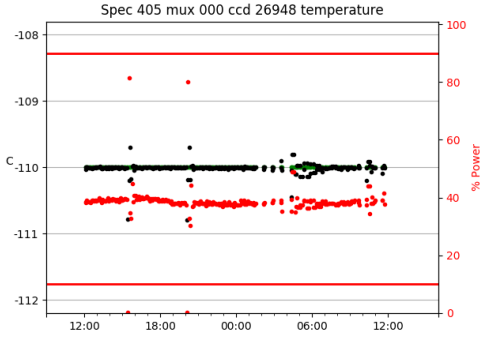

Spec 327 mux 000 ccd 21168 temperature
C
% Power
-109
-110
-111
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

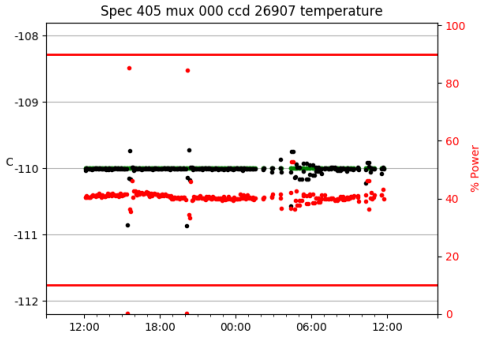

Spec 328 mux 000 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

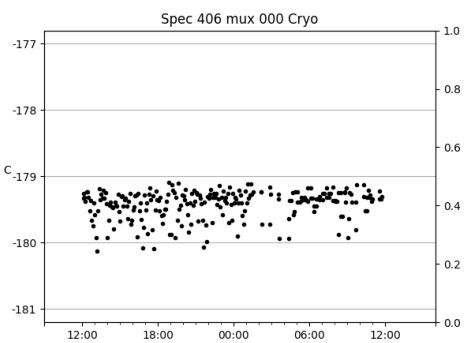

Spec 328 mux 000 ccd 21143 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

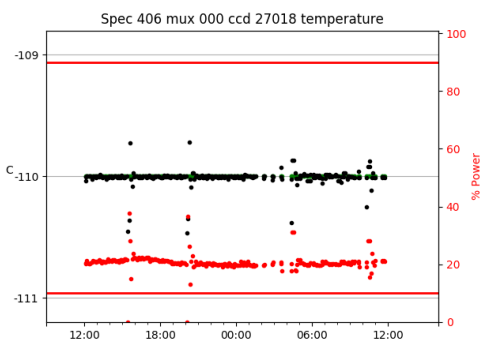

Spec 328 mux 000 ccd 21243 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

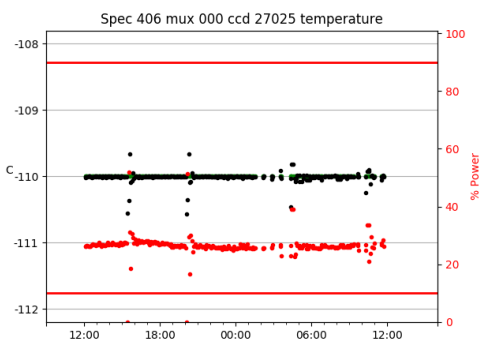

Spec 405 mux 000 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

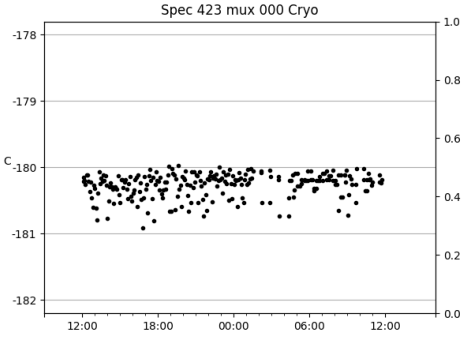

Spec 405 mux 000 ccd 26948 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

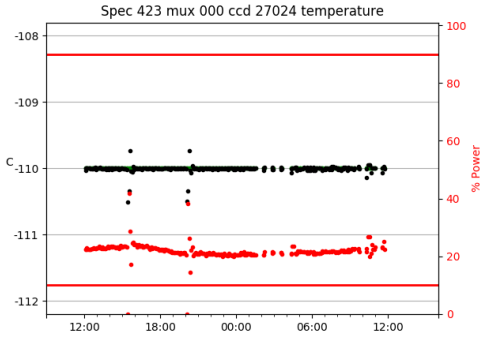

Spec 405 mux 000 ccd 26907 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

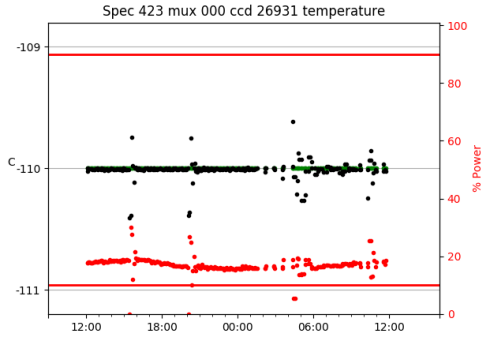

Spec 406 mux 000 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

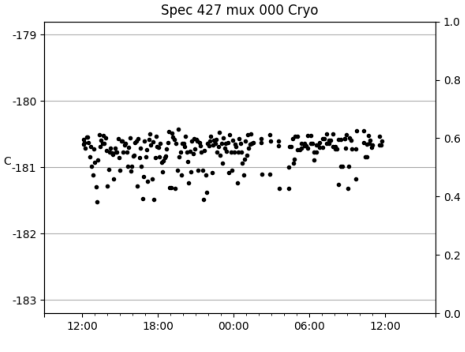

Spec 406 mux 000 ccd 27018 temperature
C
% Power
-109
-110
-111
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

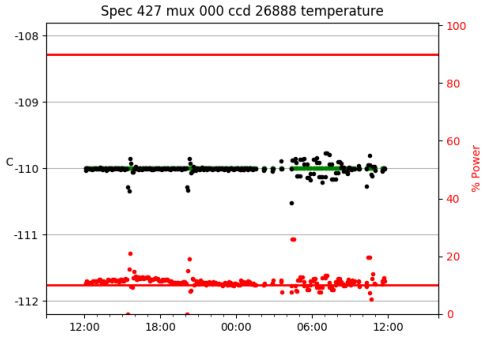

Spec 406 mux 000 ccd 27025 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

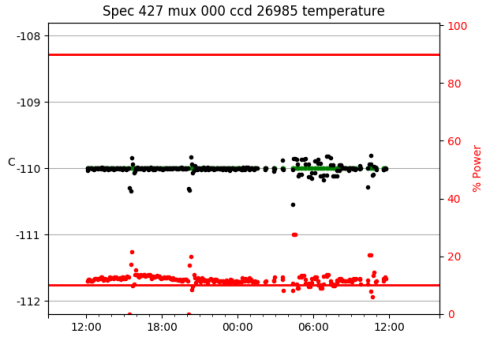

Spec 423 mux 000 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

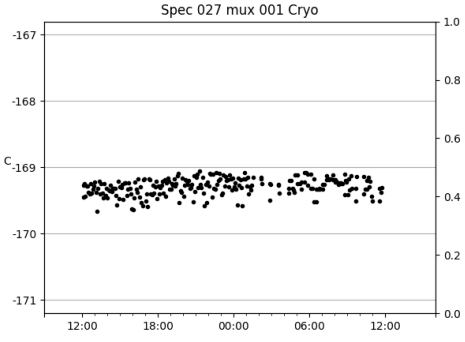

Spec 423 mux 000 ccd 27024 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

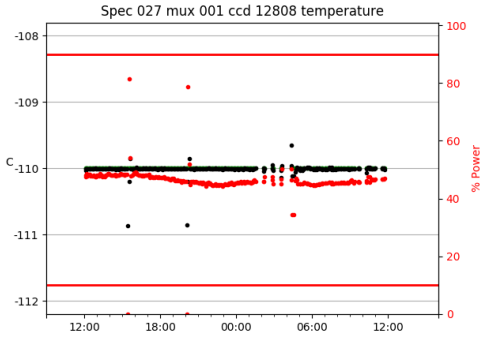

Spec 423 mux 000 ccd 26931 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

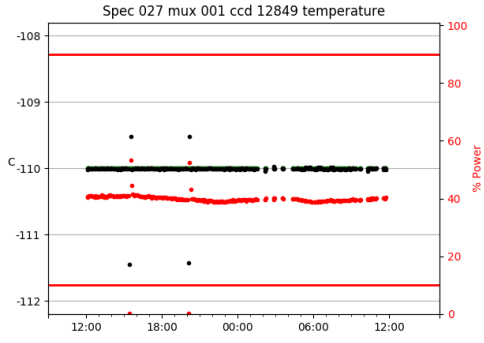

Spec 427 mux 000 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

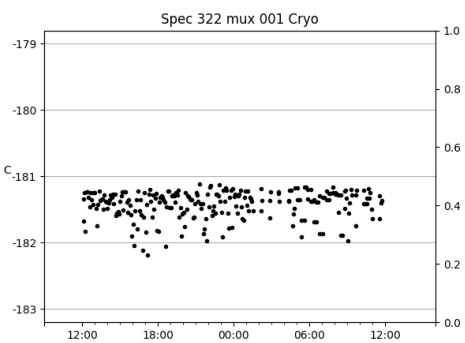

Spec 427 mux 000 ccd 26888 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

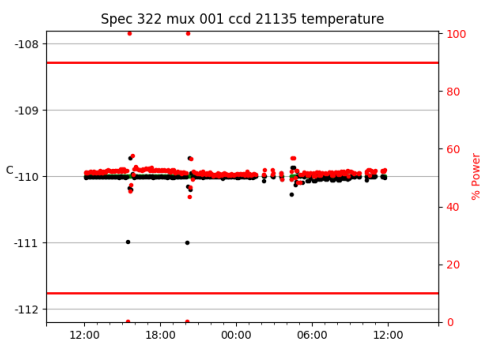

Spec 427 mux 000 ccd 26985 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

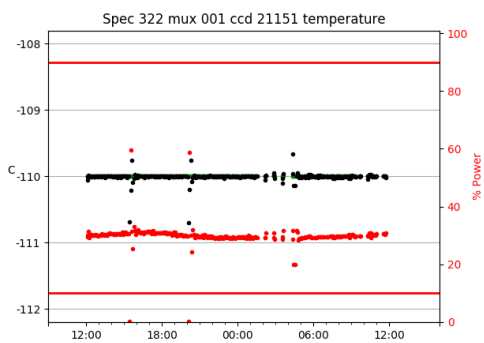

Spec 027 mux 001 Cryo
C
-167
-168
-169
-170
-171
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

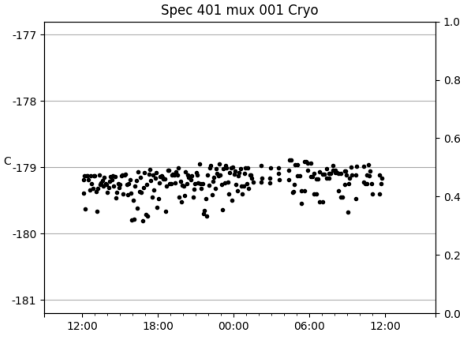

Spec 027 mux 001 ccd 12808 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

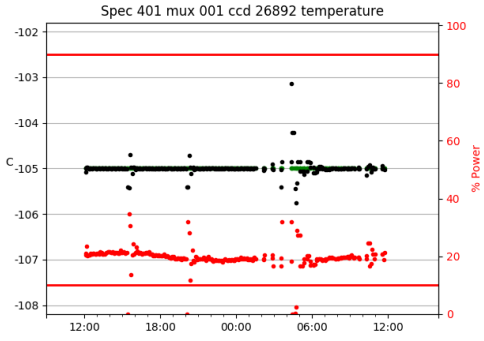

Spec 027 mux 001 ccd 12849 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

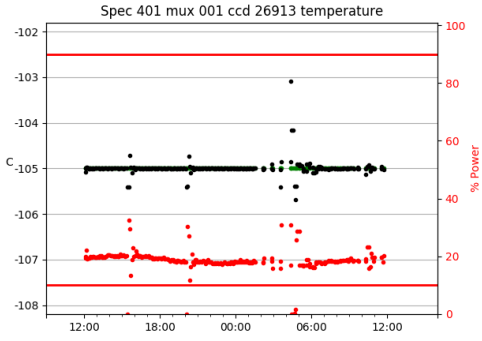

Spec 322 mux 001 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

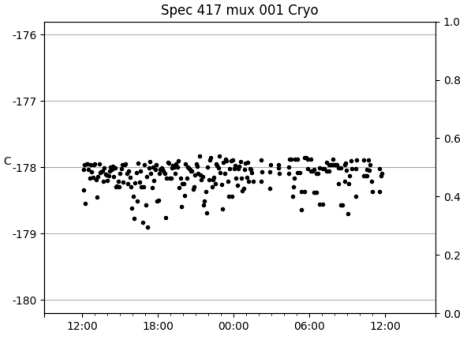

Spec 322 mux 001 ccd 21135 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

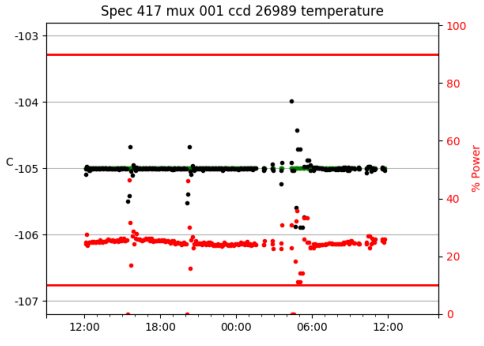

Spec 322 mux 001 ccd 21151 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

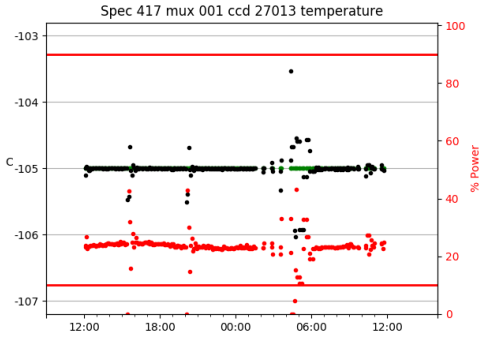

Spec 401 mux 001 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

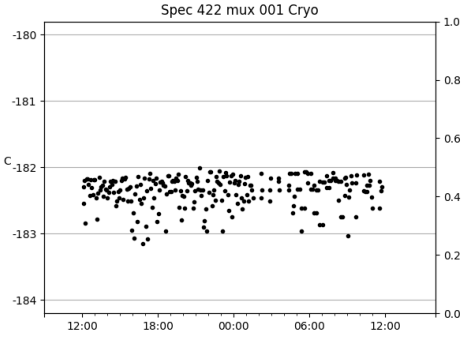

Spec 401 mux 001 ccd 26892 temperature
C
% Power
-102
-103
-104
-105
-106
-107
-108
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

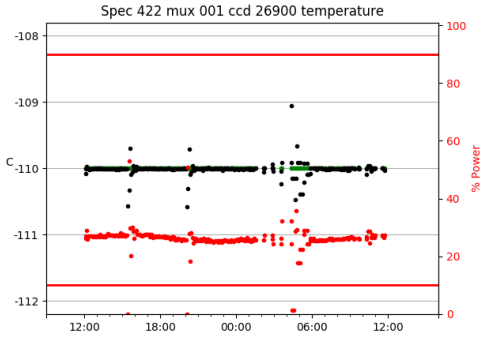

Spec 401 mux 001 ccd 26913 temperature
C
% Power
-102
-103
-104
-105
-106
-107
-108
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

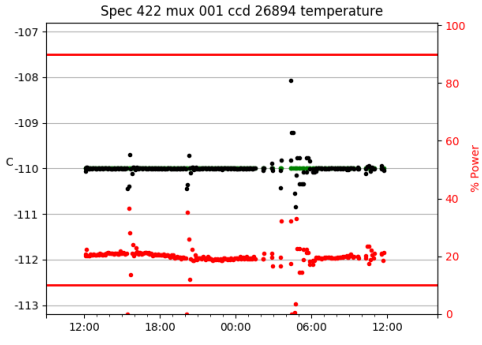

Spec 417 mux 001 Cryo
C
-176
-177
-178
-179
-180
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

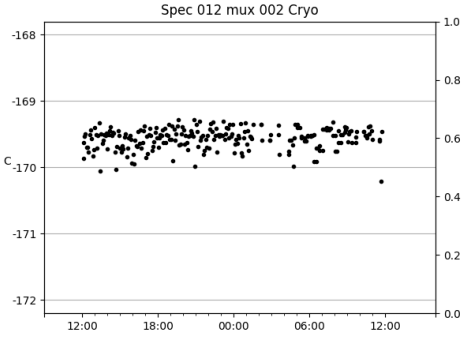

Spec 417 mux 001 ccd 26989 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

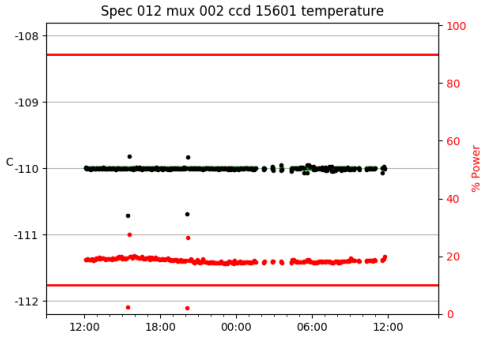

Spec 417 mux 001 ccd 27013 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

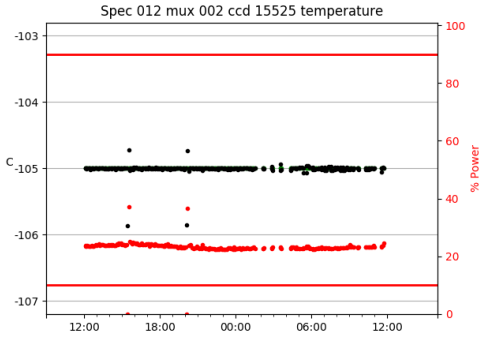

Spec 422 mux 001 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

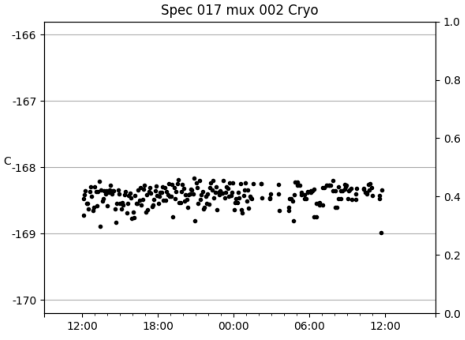

Spec 422 mux 001 ccd 26900 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

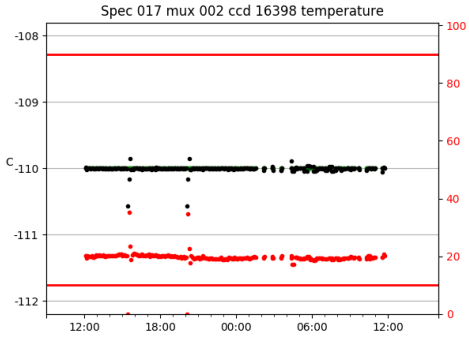

Spec 422 mux 001 ccd 26894 temperature
C
% Power
-107
-108
-109
-110
-111
-112
-113
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

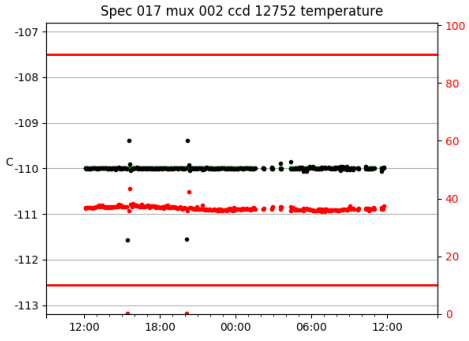

Spec 012 mux 002 Cryo
C
-168
-169
-170
-171
-172
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

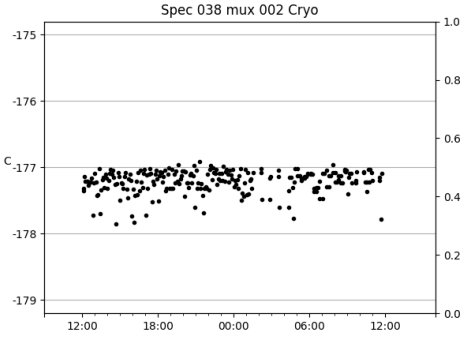

Spec 012 mux 002 ccd 15601 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

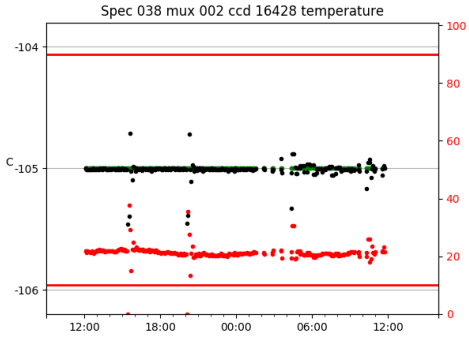

Spec 012 mux 002 ccd 15525 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

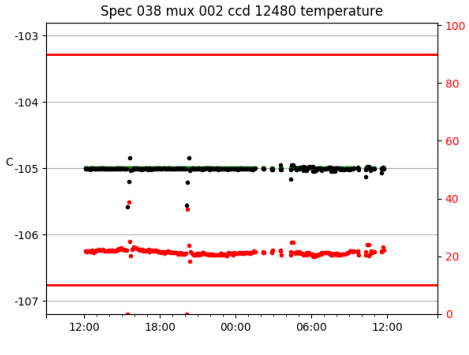

Spec 017 mux 002 Cryo
C
-166
-167
-168
-169
-170
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

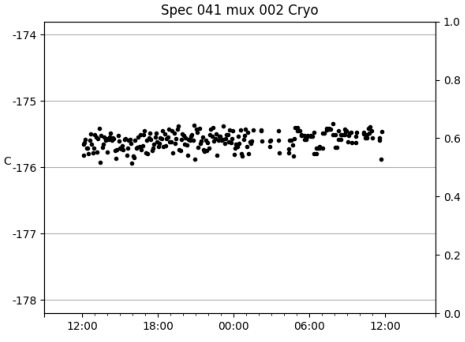

Spec 017 mux 002 ccd 16398 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

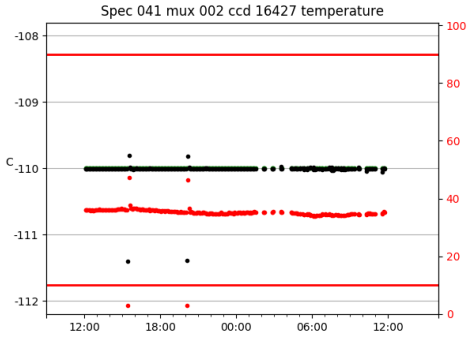

Spec 017 mux 002 ccd 12752 temperature
C
% Power
-107
-108
-109
-110
-111
-112
-113
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

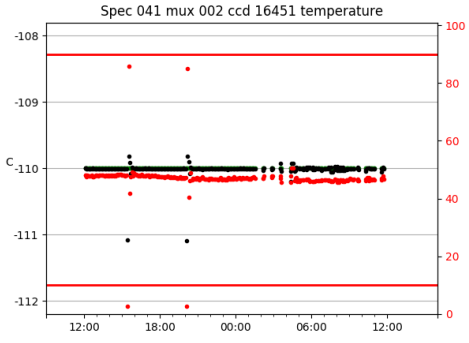

Spec 038 mux 002 Cryo
C
-175
-176
-177
-178
-179
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

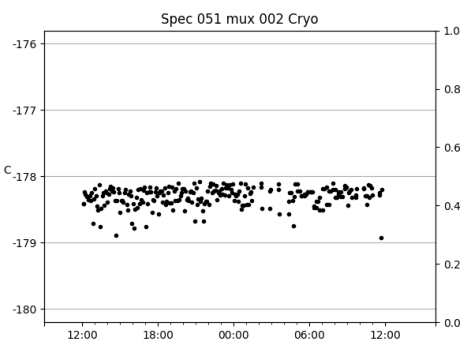

Spec 038 mux 002 ccd 16428 temperature
C
% Power
-104
-105
-106
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

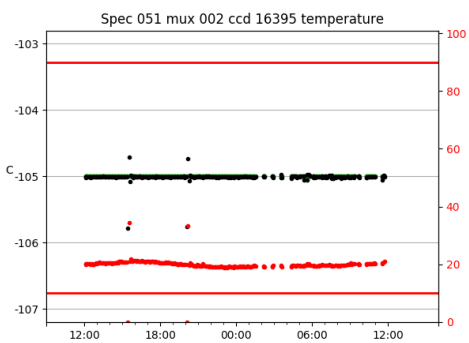

Spec 038 mux 002 ccd 12480 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

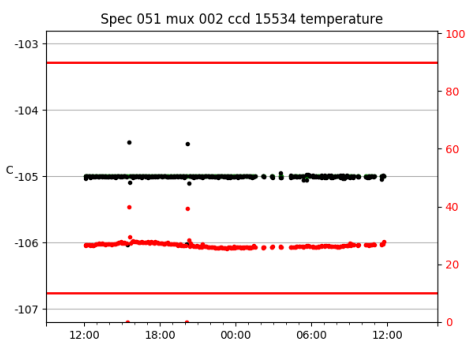

Spec 041 mux 002 Cryo
C
-174
-175
-176
-177
-178
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

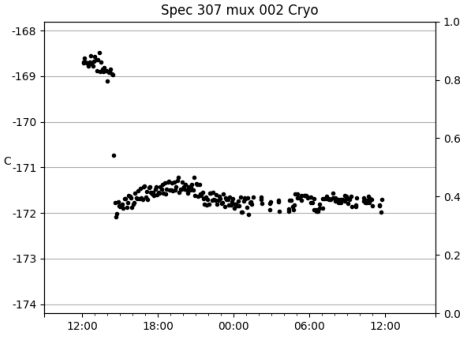

Spec 041 mux 002 ccd 16427 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

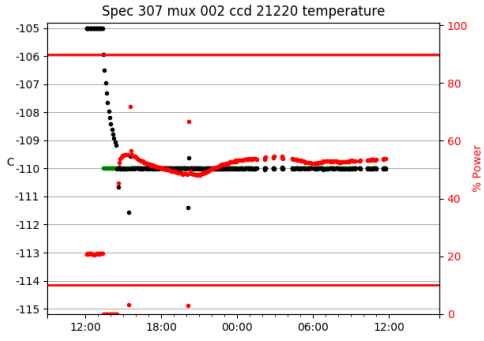

Spec 041 mux 002 ccd 16451 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

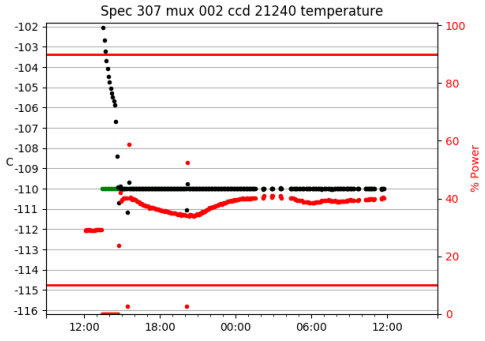

Spec 051 mux 002 Cryo
C
-176
-177
-178
-179
-180
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

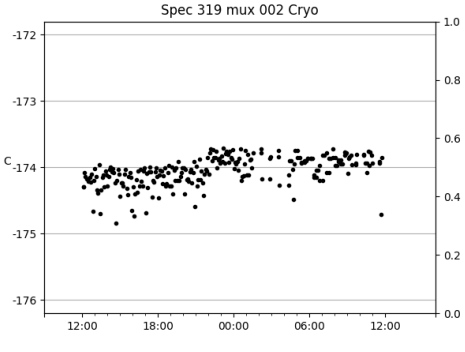

Spec 051 mux 002 ccd 16395 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

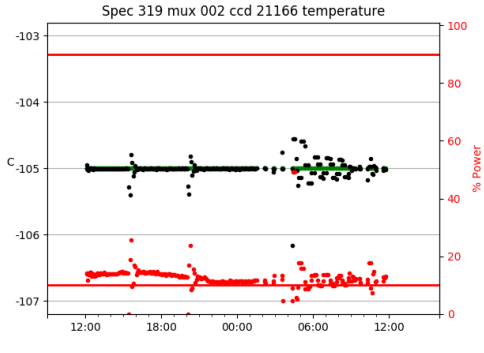

Spec 051 mux 002 ccd 15534 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

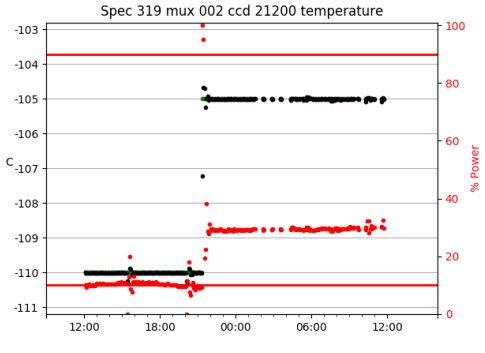

Spec 307 mux 002 Cryo
C
-168
-169
-170
-171
-172
-173
-174
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

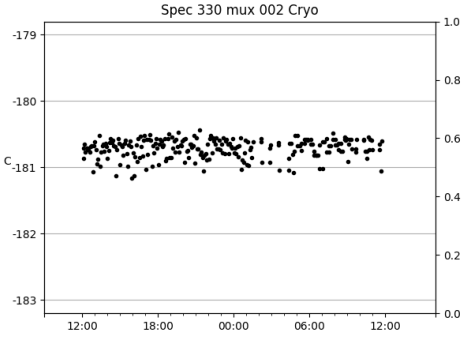

Spec 307 mux 002 ccd 21220 temperature
C
% Power
-105
-106
-107
-108
-109
-110
-111
-112
-113
-114
-115
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

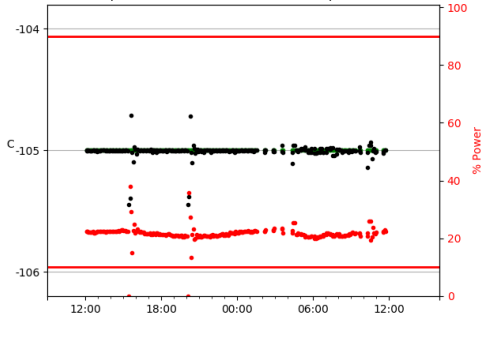

Spec 307 mux 002 ccd 21240 temperature
C
% Power
-102
-103
-104
-105
-106
-107
-108
-109
-110
-111
-112
-113
-114
-115
-116
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

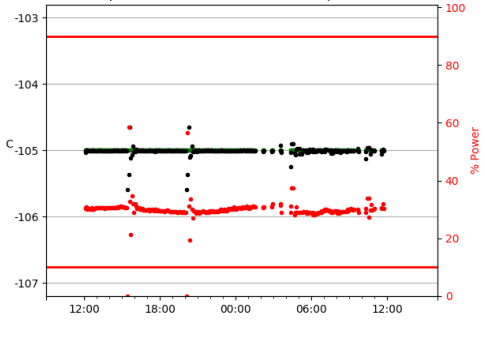

Spec 319 mux 002 Cryo
C
-172
-173
-174
-175
-176
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

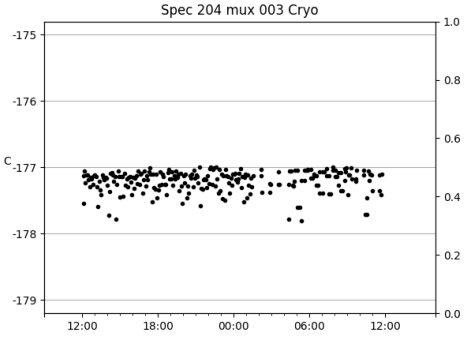

Spec 319 mux 002 ccd 21166 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

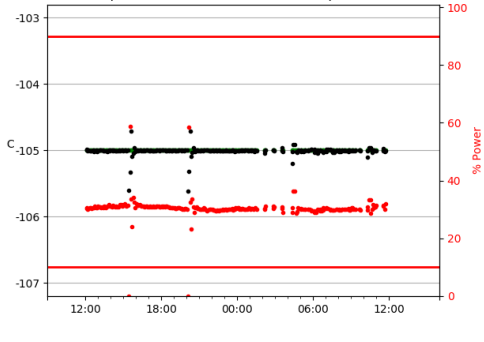

Spec 319 mux 002 ccd 21200 temperature
C
% Power
-103
-104
-105
-106
-107
-108
-109
-110
-111
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

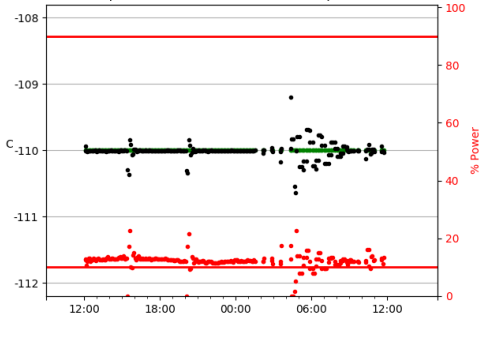

Spec 330 mux 002 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

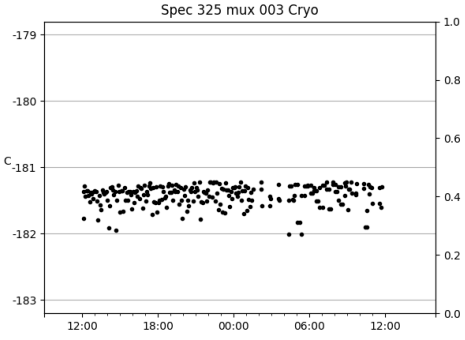

Spec 330 mux 002 ccd 21223 temperature
C
% Power
-104
-105
-106
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

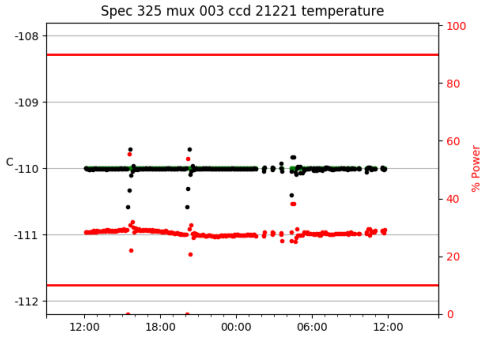

Spec 330 mux 002 ccd 21224 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

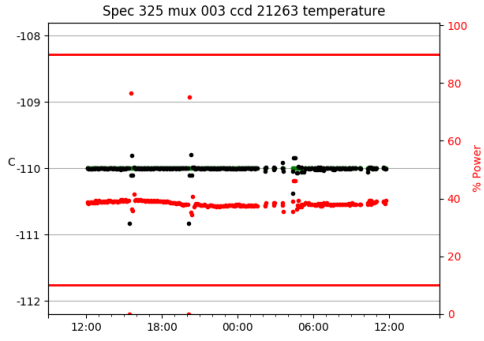

Spec 204 mux 003 Cryo
C
-175
-176
-177
-178
-179
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

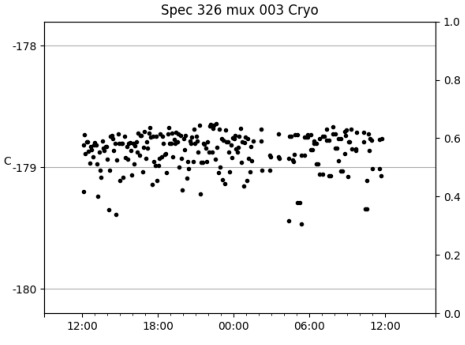

Spec 204 mux 003 ccd 18181 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

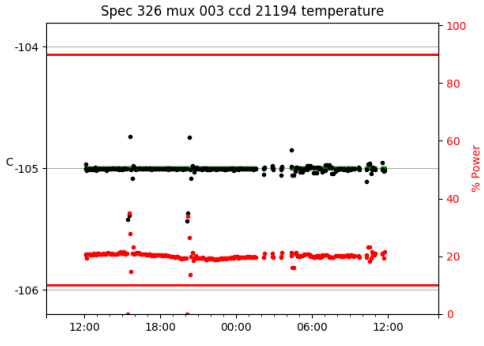

Spec 204 mux 003 ccd 18264 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

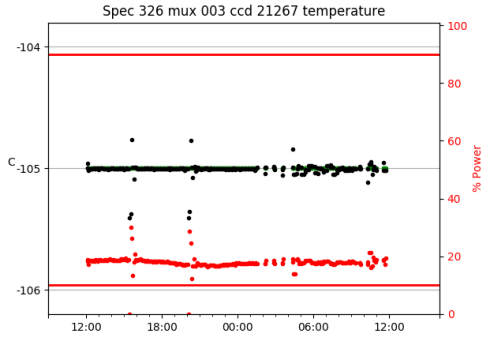

Spec 325 mux 003 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

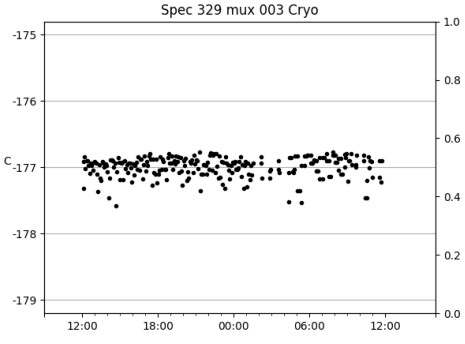

Spec 325 mux 003 ccd 21221 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

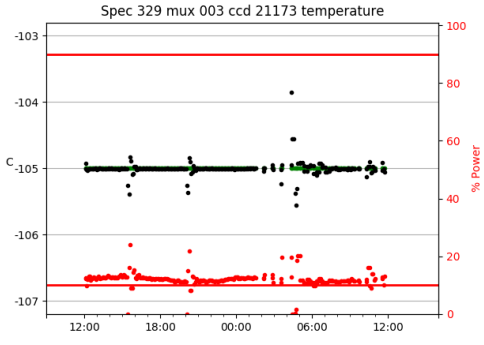

Spec 325 mux 003 ccd 21263 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

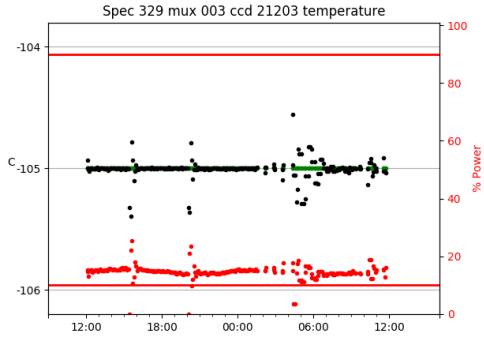

Spec 326 mux 003 Cryo
C
-178
-179
-180
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

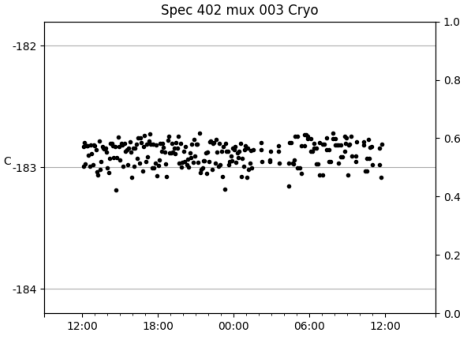

Spec 326 mux 003 ccd 21194 temperature
C
-104
-105
-106
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

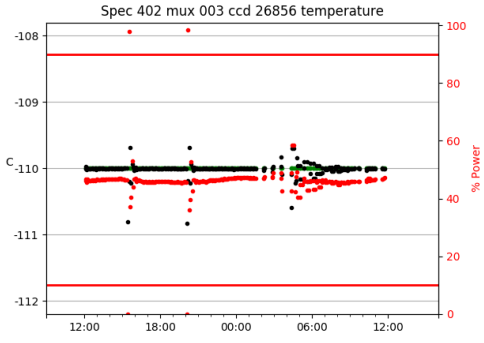

Spec 326 mux 003 ccd 21267 temperature
C
-104
-105
-106
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

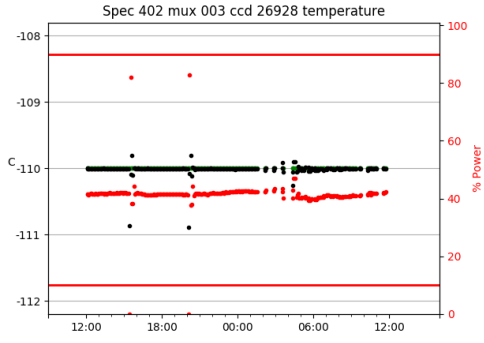

Spec 329 mux 003 Cryo
C
-175
-176
-177
-178
-179
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

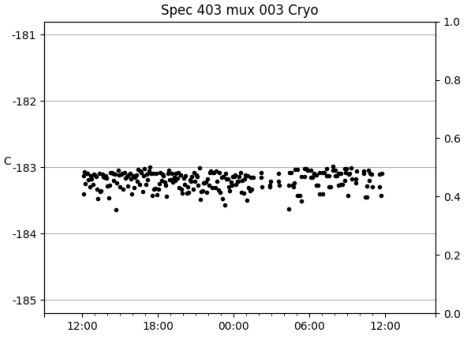

Spec 329 mux 003 ccd 21173 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

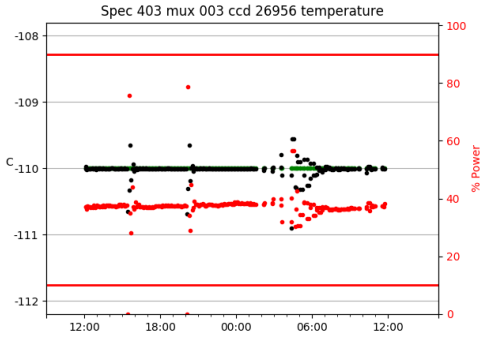

Spec 329 mux 003 ccd 21203 temperature
C
-104
-105
-106
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

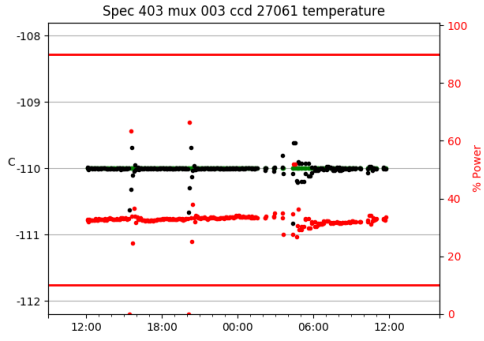

Spec 402 mux 003 Cryo
C
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

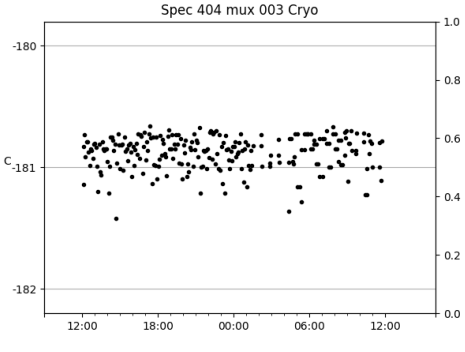

Spec 402 mux 003 ccd 26856 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

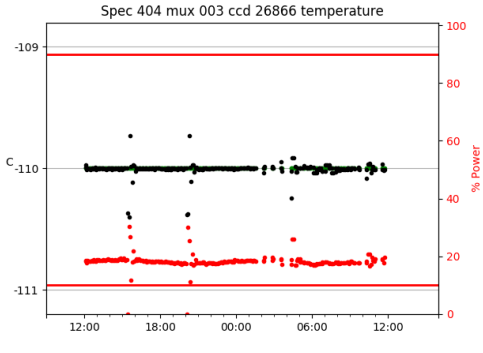

Spec 402 mux 003 ccd 26928 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

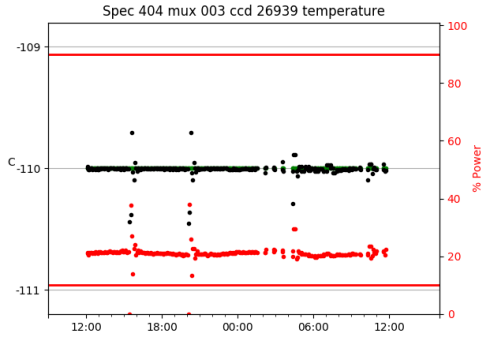

Spec 403 mux 003 Cryo
C
-181
-182
-183
-184
-185
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

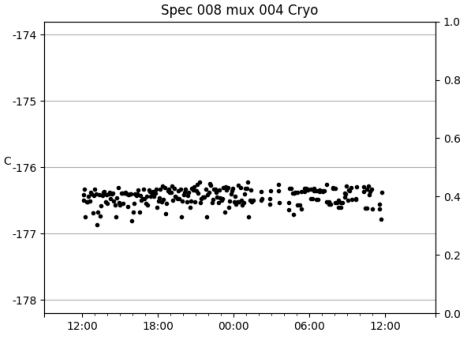

Spec 403 mux 003 ccd 26956 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

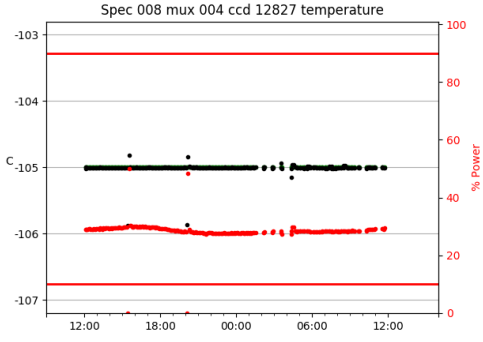

Spec 403 mux 003 ccd 27061 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

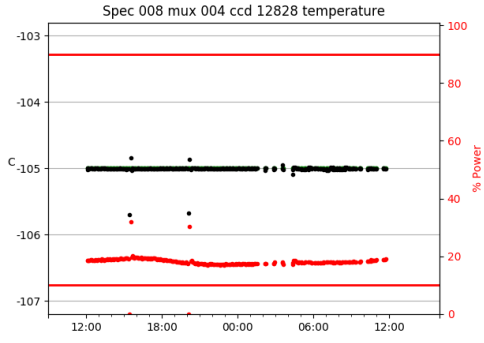

Spec 404 mux 003 Cryo
C
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

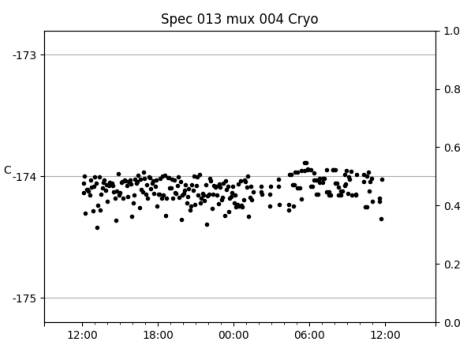

Spec 404 mux 003 ccd 26866 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

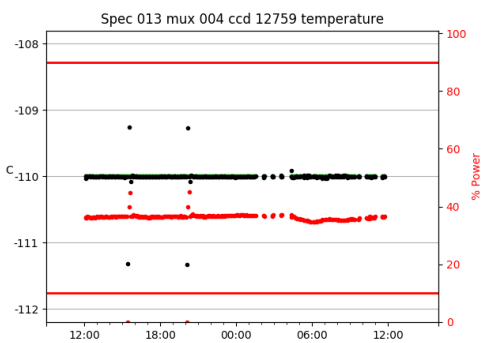

Spec 404 mux 003 ccd 26939 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

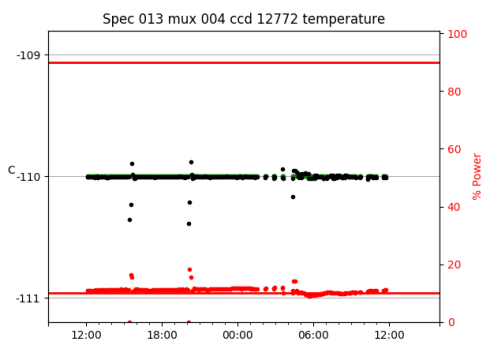

Spec 008 mux 004 Cryo
C
-174
-175
-176
-177
-178
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

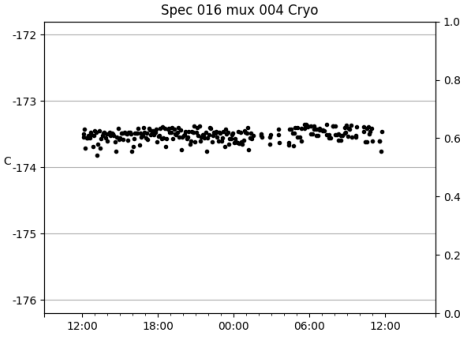

Spec 008 mux 004 ccd 12827 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

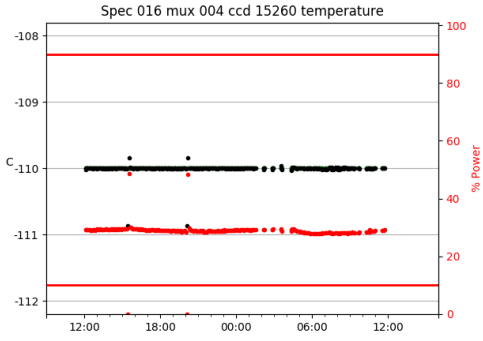

Spec 008 mux 004 ccd 12828 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

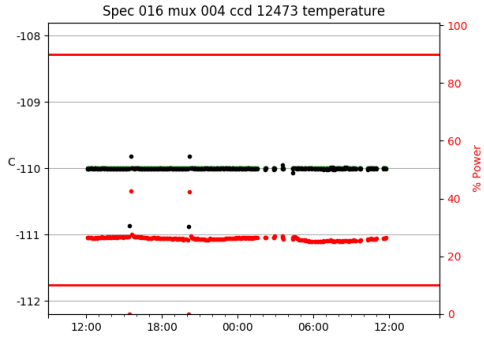

Spec 013 mux 004 Cryo
C
-173
-174
-175
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

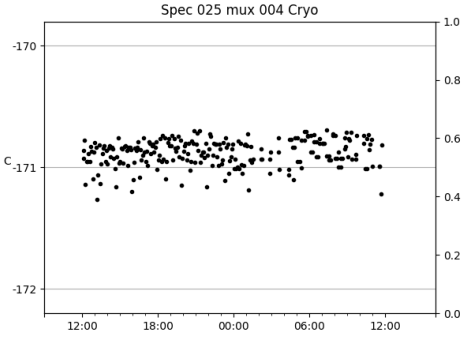

Spec 013 mux 004 ccd 12759 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

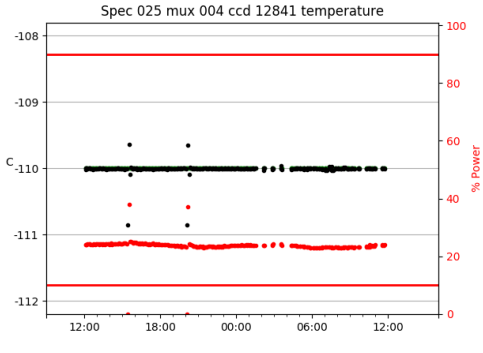

Spec 013 mux 004 ccd 12772 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

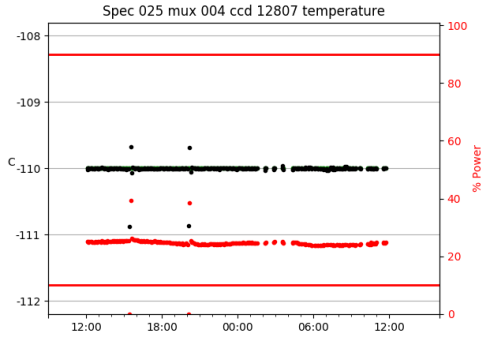

Spec 016 mux 004 Cryo
C
-172
-173
-174
-175
-176
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

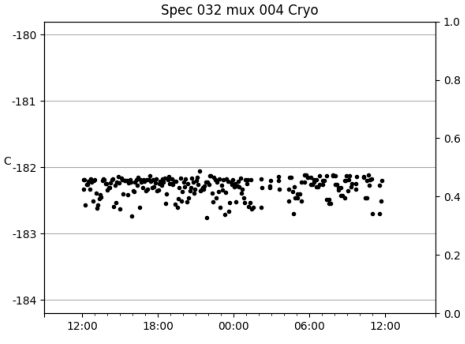

Spec 016 mux 004 ccd 15260 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

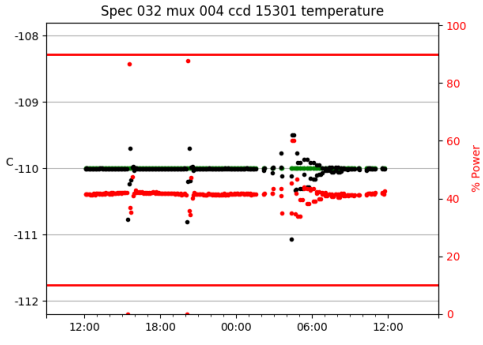

Spec 016 mux 004 ccd 12473 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

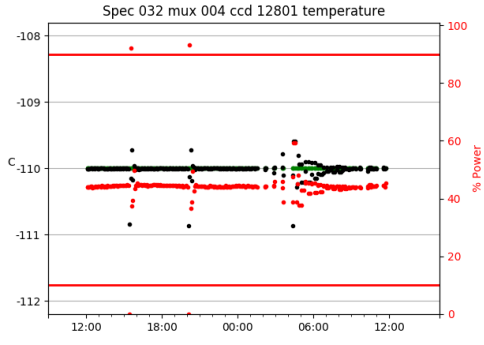

Spec 025 mux 004 Cryo
C
-170
-171
-172
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

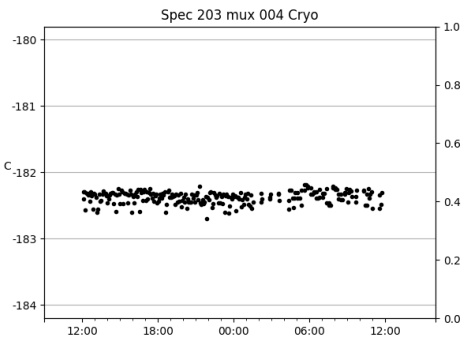

Spec 025 mux 004 ccd 12841 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

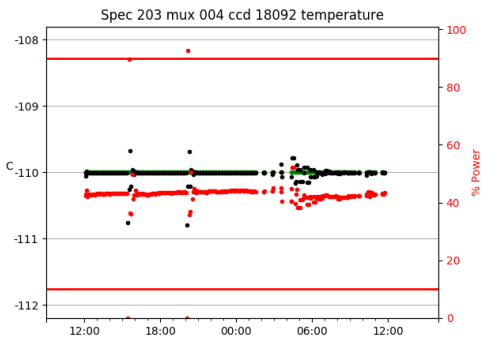

Spec 025 mux 004 ccd 12807 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

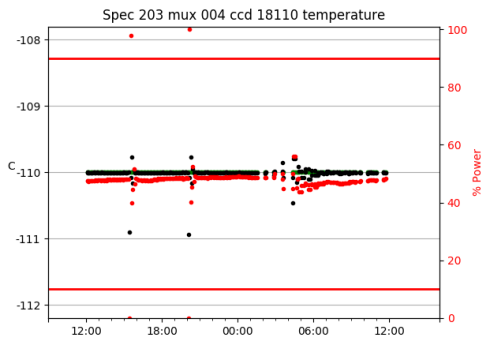

Spec 032 mux 004 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

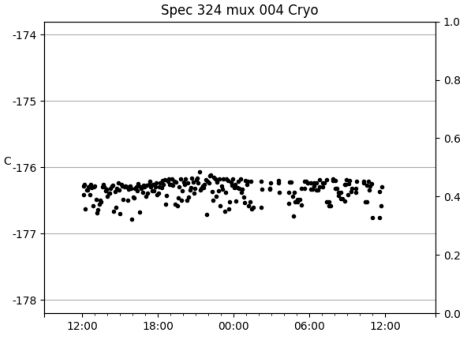

Spec 032 mux 004 ccd 15301 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

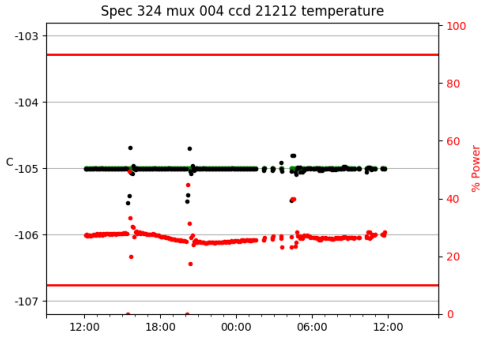

Spec 032 mux 004 ccd 12801 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

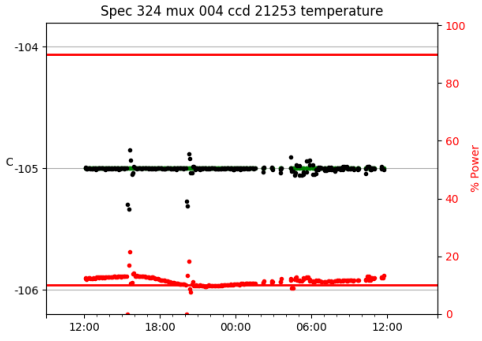

Spec 203 mux 004 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

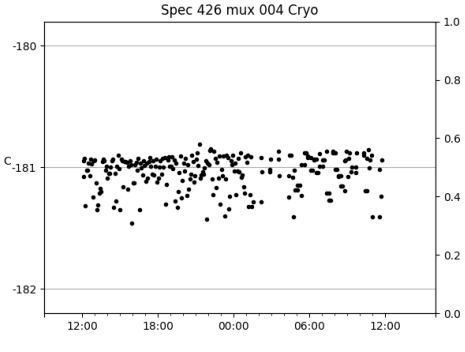

Spec 203 mux 004 ccd 18092 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

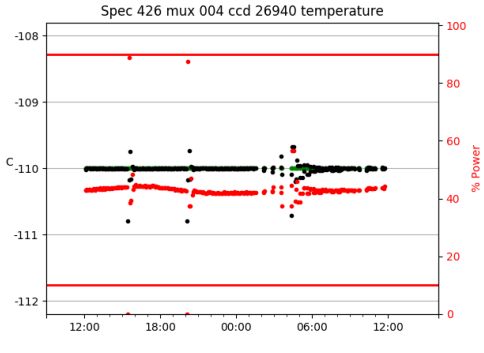

Spec 203 mux 004 ccd 18110 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

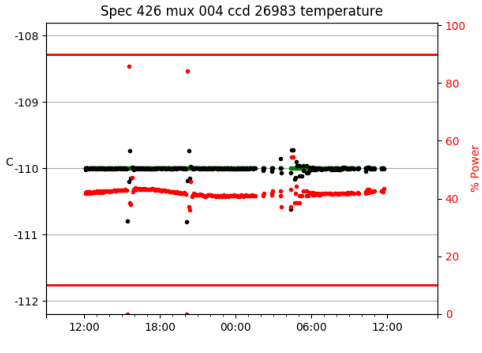

Spec 324 mux 004 Cryo
C
-174
-175
-176
-177
-178
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

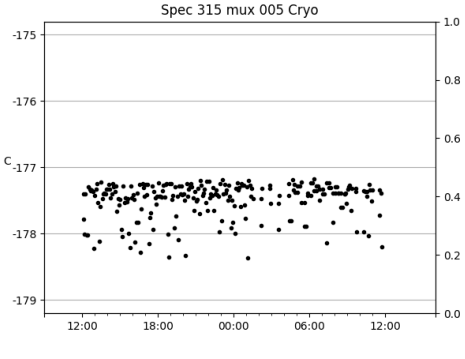

Spec 324 mux 004 ccd 21212 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

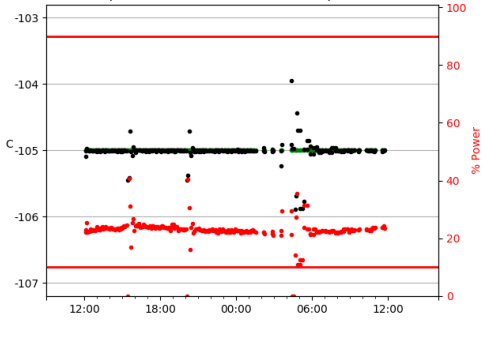

Spec 324 mux 004 ccd 21253 temperature
C
% Power
-104
-105
-106
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

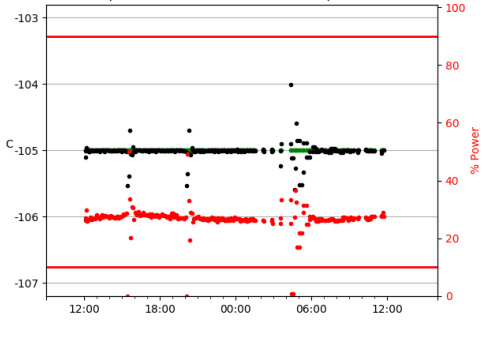

Spec 426 mux 004 Cryo
C
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

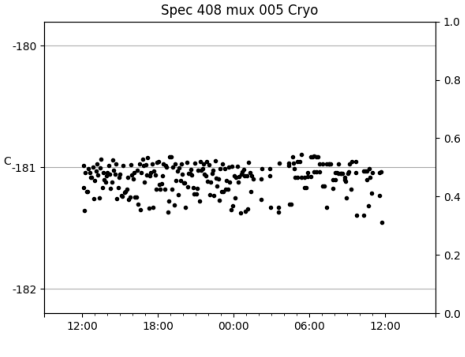

Spec 426 mux 004 ccd 26940 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

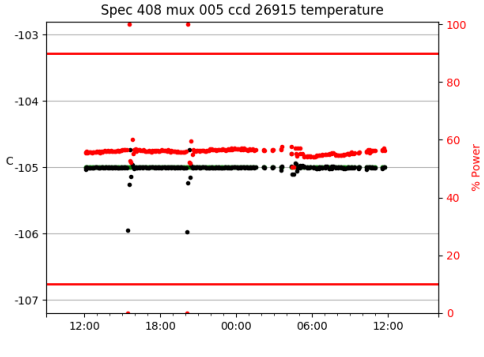

Spec 426 mux 004 ccd 26983 temperature
C
% Power
-108
-109
-110
-111
-112
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

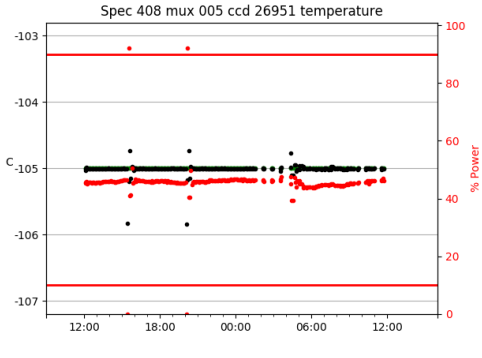

Spec 315 mux 005 Cryo
C
-175
-176
-177
-178
-179
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

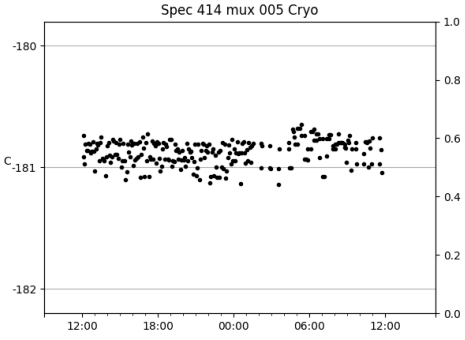

Spec 315 mux 005 ccd 21176 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

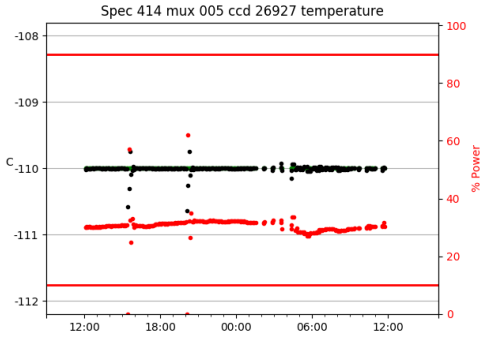

Spec 315 mux 005 ccd 21177 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

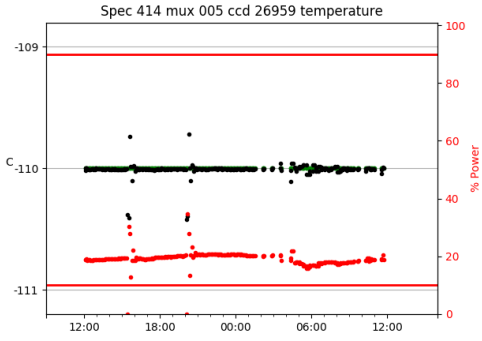

Spec 408 mux 005 Cryo
C
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

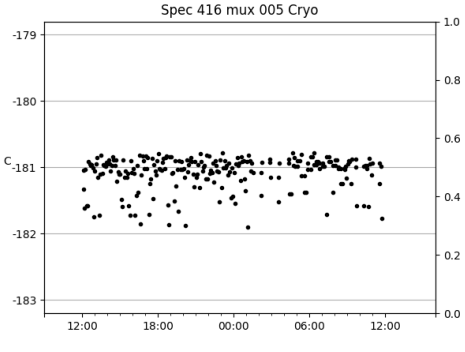

Spec 408 mux 005 ccd 26915 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

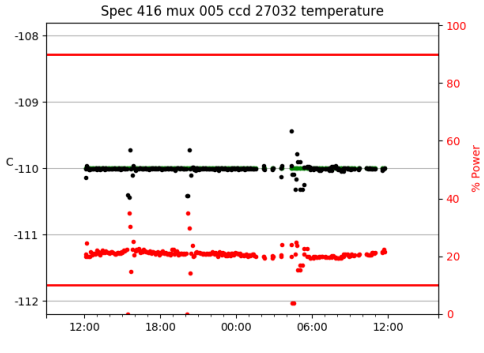

Spec 408 mux 005 ccd 26951 temperature
C
% Power
-103
-104
-105
-106
-107
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

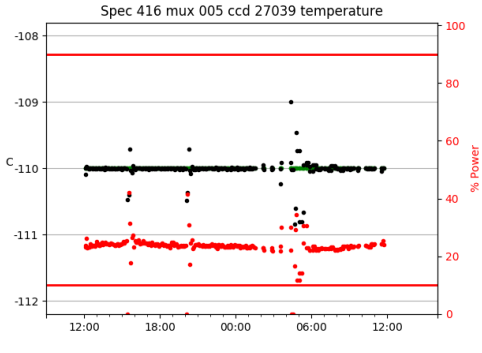

Spec 414 mux 005 Cryo
C
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

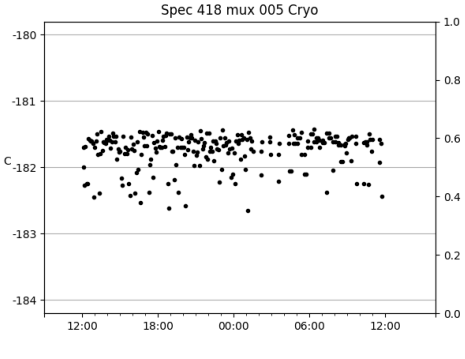

Spec 414 mux 005 ccd 26927 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

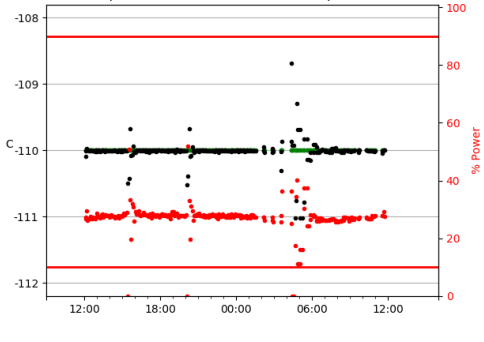

Spec 414 mux 005 ccd 26959 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

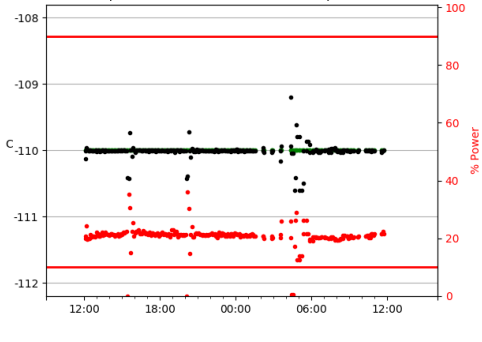

Spec 416 mux 005 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

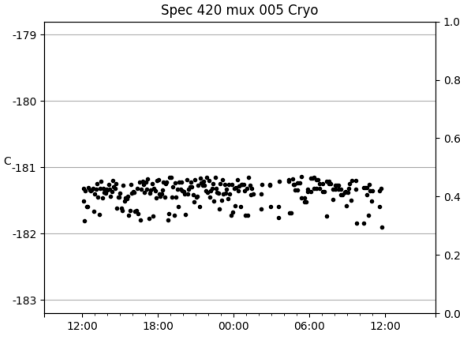

Spec 416 mux 005 ccd 27032 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

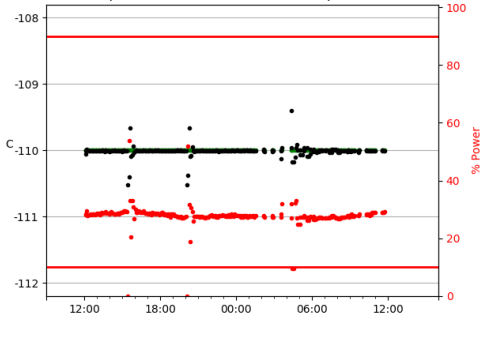

Spec 416 mux 005 ccd 27039 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

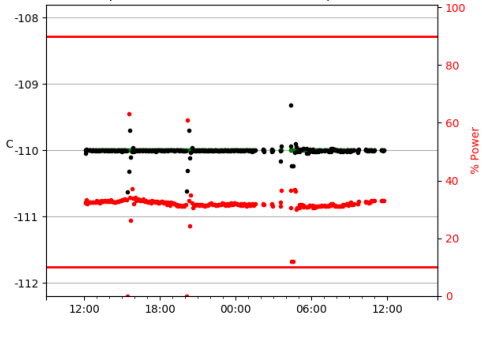

Spec 418 mux 005 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

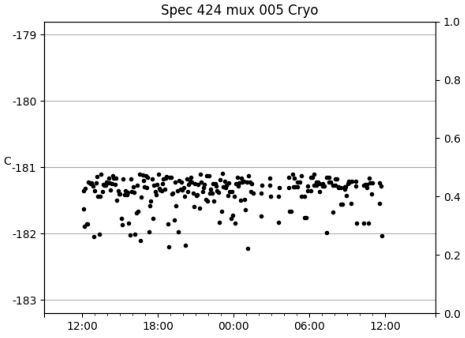

Spec 418 mux 005 ccd 26876 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

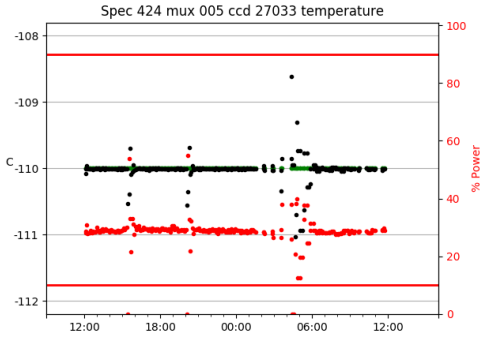

Spec 418 mux 005 ccd 26984 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

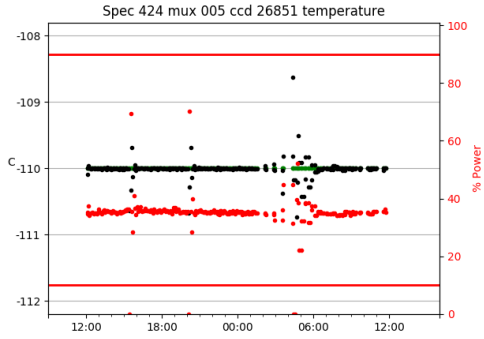

Spec 420 mux 005 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

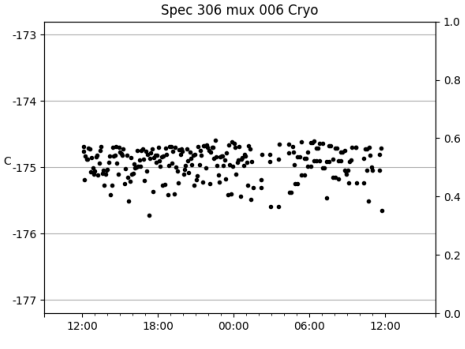

Spec 420 mux 005 ccd 27040 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

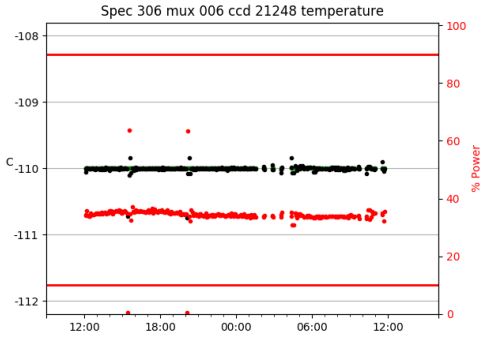

Spec 420 mux 005 ccd 26967 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

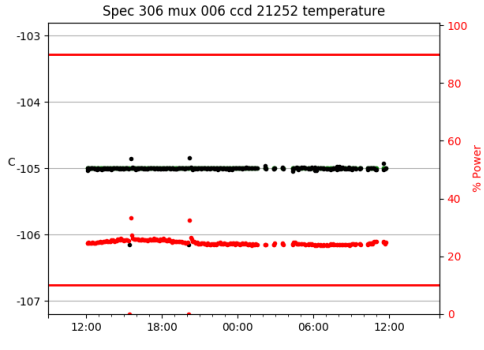

Spec 424 mux 005 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

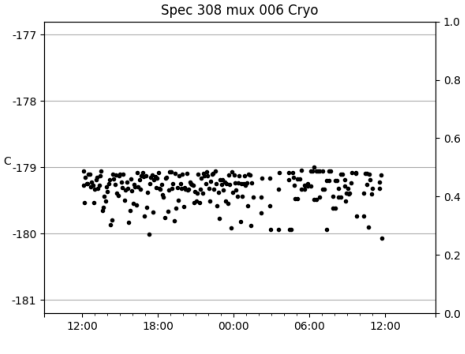

Spec 424 mux 005 ccd 27033 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

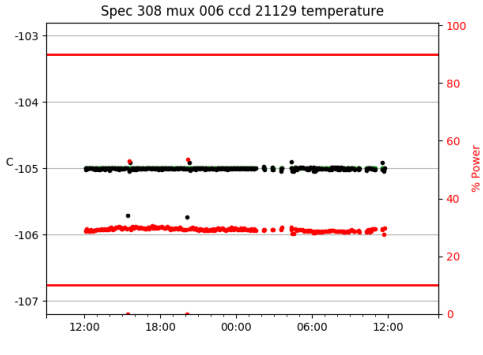

Spec 424 mux 005 ccd 26851 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

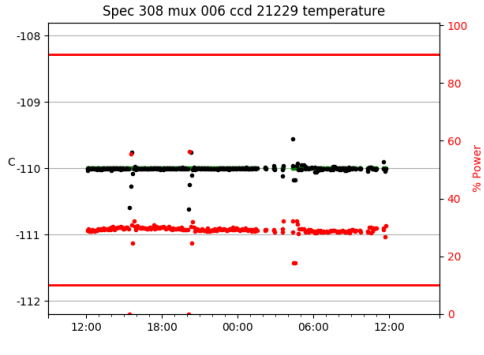

Spec 306 mux 006 Cryo
C
-173
-174
-175
-176
-177
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

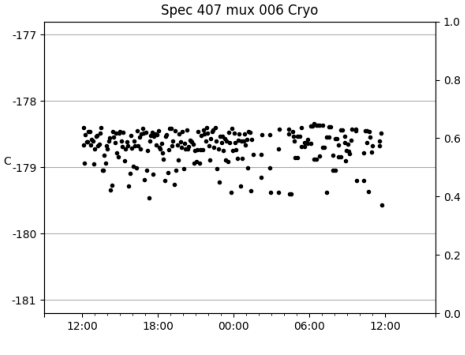

Spec 306 mux 006 ccd 21248 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

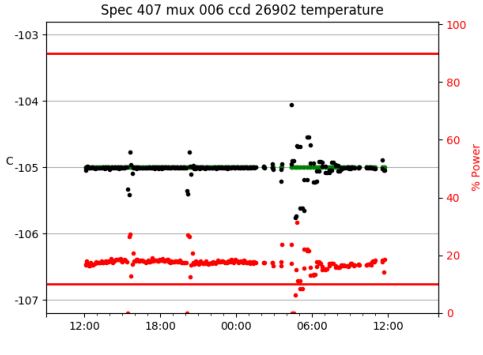

Spec 306 mux 006 ccd 21252 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

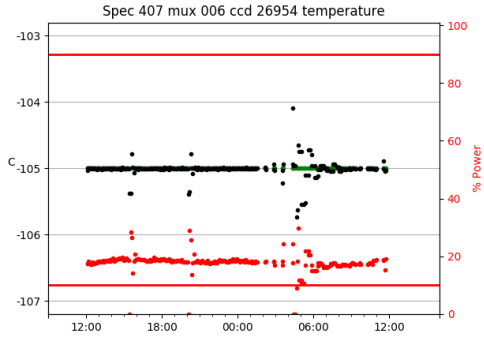

Spec 308 mux 006 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

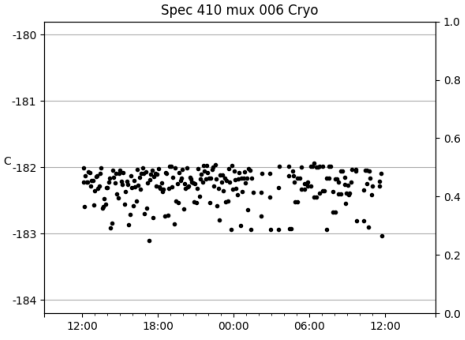

Spec 308 mux 006 ccd 21129 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

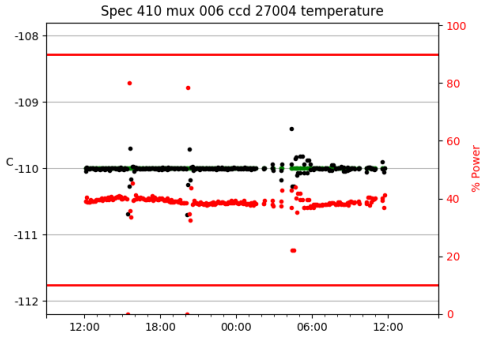

Spec 308 mux 006 ccd 21229 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

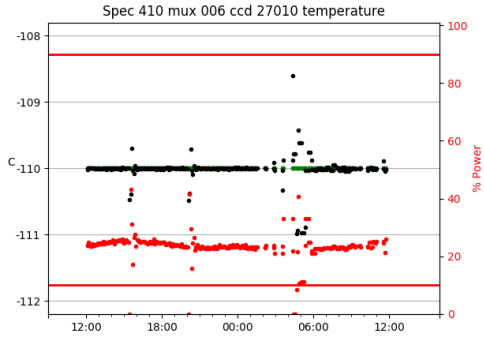

Spec 407 mux 006 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

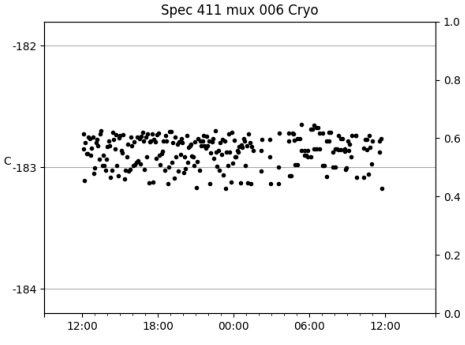

Spec 407 mux 006 ccd 26902 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

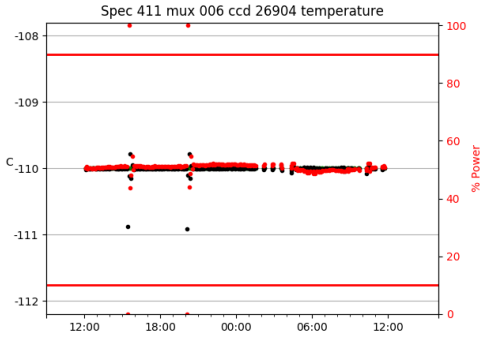

Spec 407 mux 006 ccd 26954 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

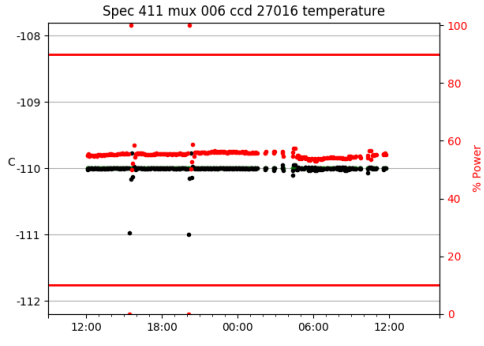

Spec 410 mux 006 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

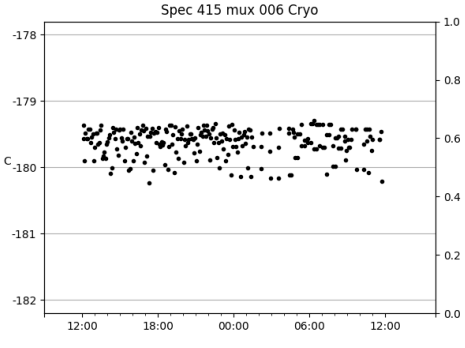

Spec 410 mux 006 ccd 27004 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

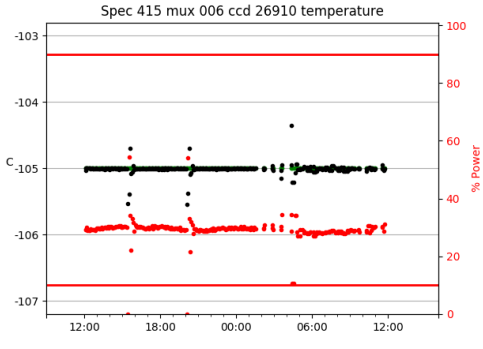

Spec 410 mux 006 ccd 27010 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

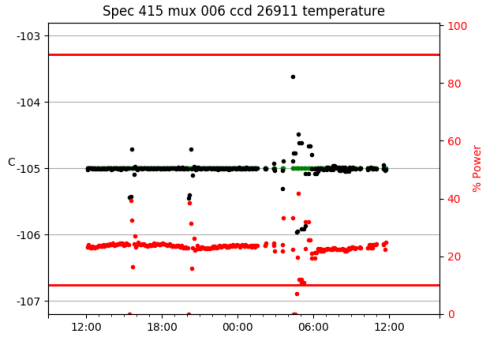

Spec 411 mux 006 Cryo
C
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

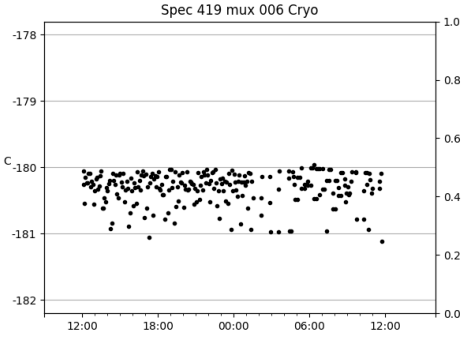

Spec 411 mux 006 ccd 26904 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

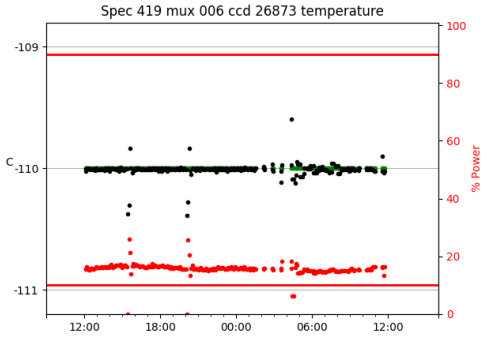

Spec 411 mux 006 ccd 27016 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

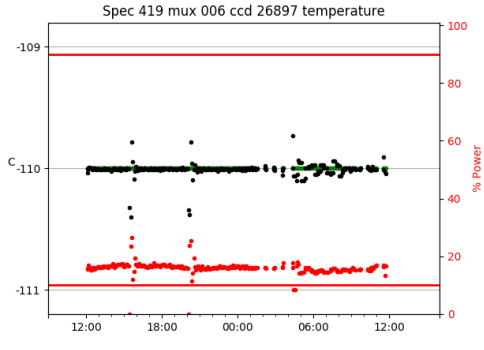

Spec 415 mux 006 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

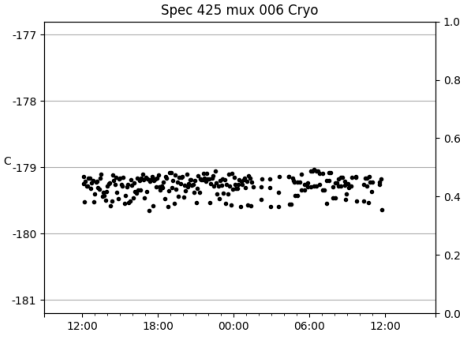

Spec 415 mux 006 ccd 26910 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

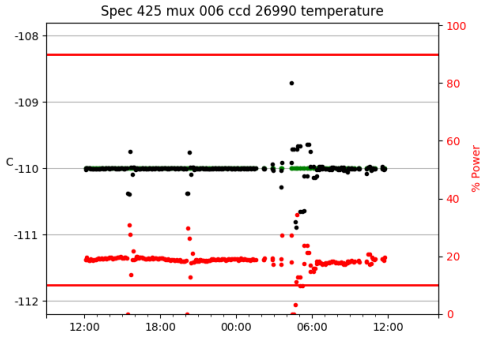

Spec 415 mux 006 ccd 26911 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

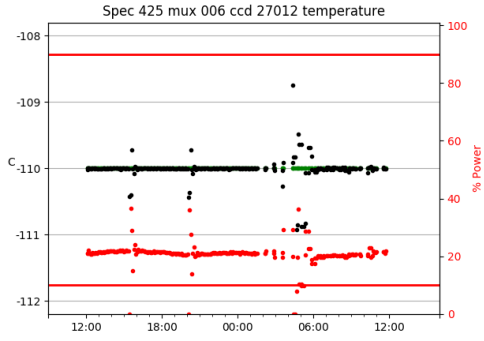

Spec 419 mux 006 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

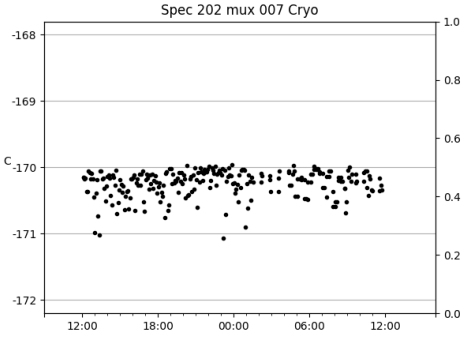

Spec 419 mux 006 ccd 26873 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

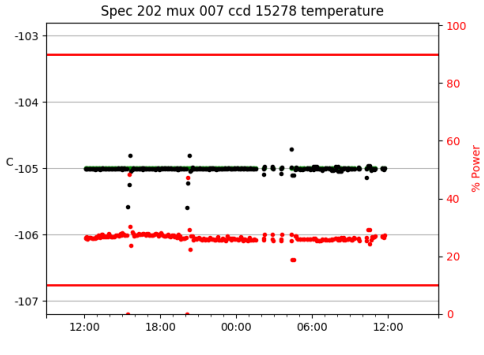

Spec 419 mux 006 ccd 26897 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

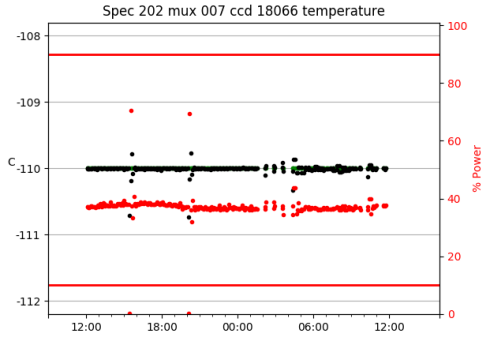

Spec 425 mux 006 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

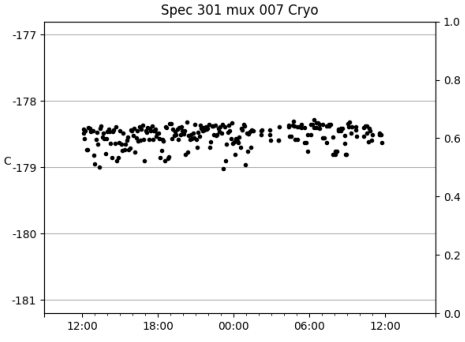

Spec 425 mux 006 ccd 26990 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

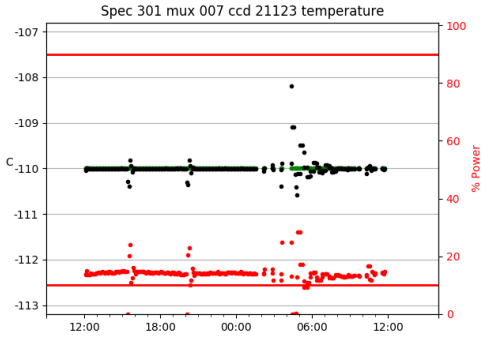

Spec 425 mux 006 ccd 27012 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

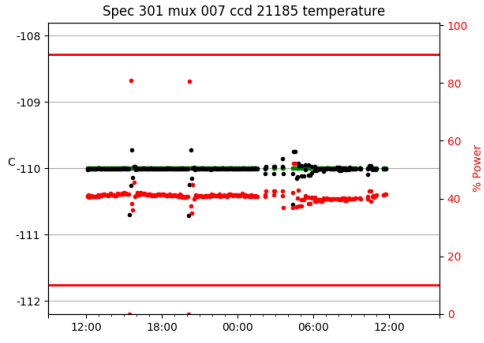

Spec 202 mux 007 Cryo
C
-168
-169
-170
-171
-172
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

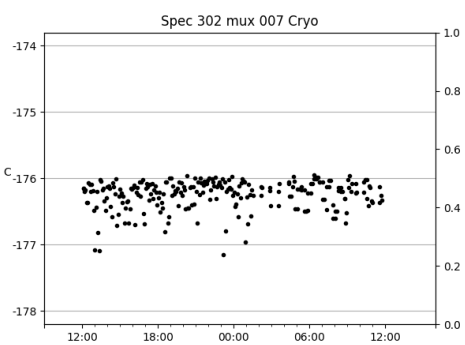

Spec 202 mux 007 ccd 15278 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

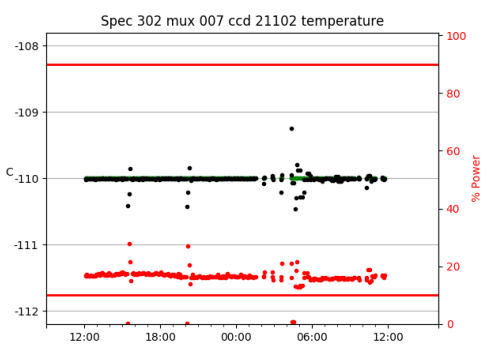

Spec 202 mux 007 ccd 18066 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

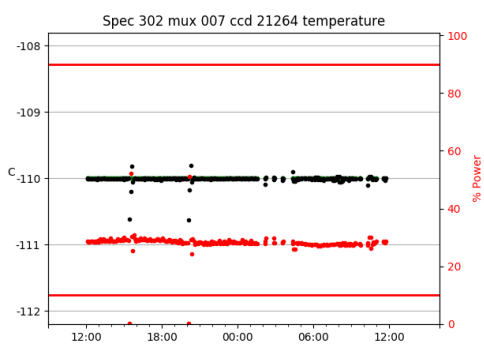

Spec 301 mux 007 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

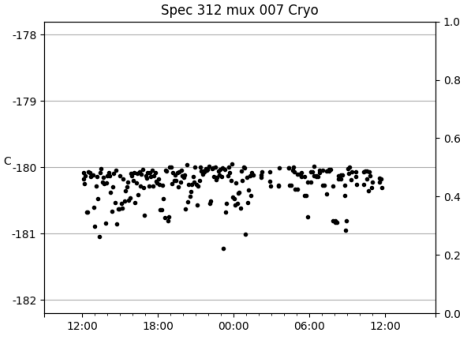

Spec 301 mux 007 ccd 21123 temperature
C
-107
-108
-109
-110
-111
-112
-113
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

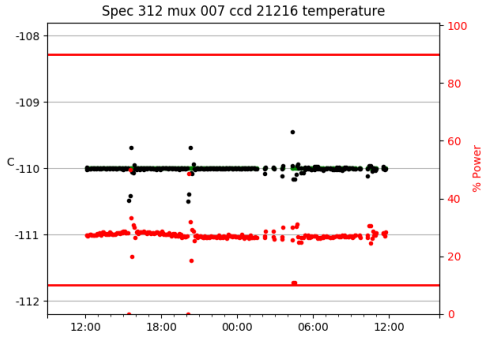

Spec 301 mux 007 ccd 21185 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

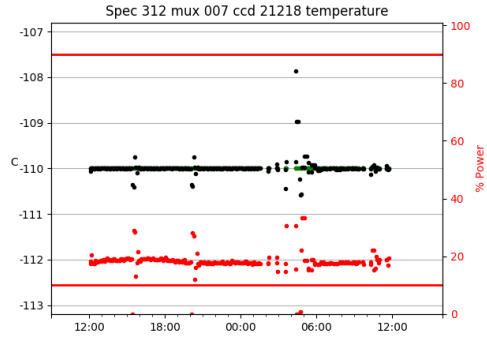

Spec 302 mux 007 Cryo
C
-174
-175
-176
-177
-178
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

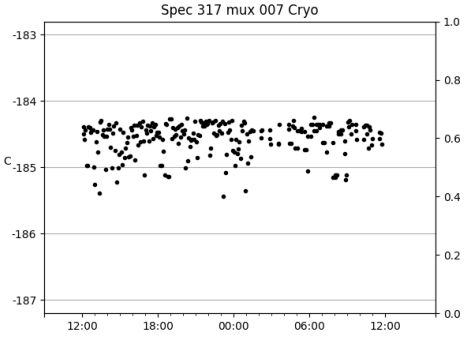

Spec 302 mux 007 ccd 21102 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

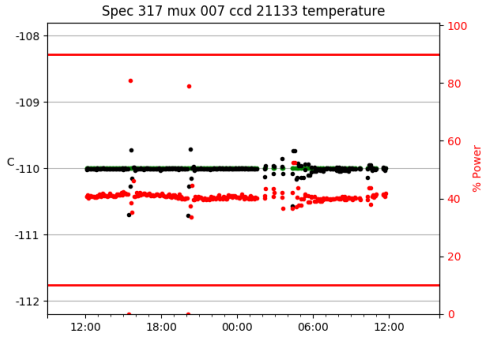

Spec 302 mux 007 ccd 21264 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

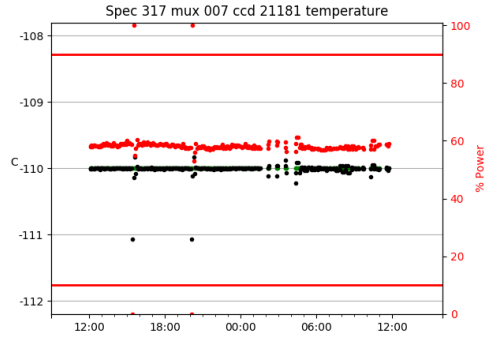

Spec 312 mux 007 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

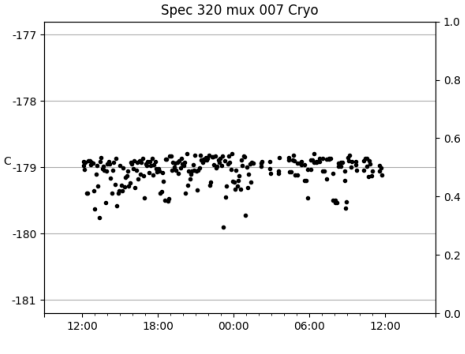

Spec 312 mux 007 ccd 21216 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

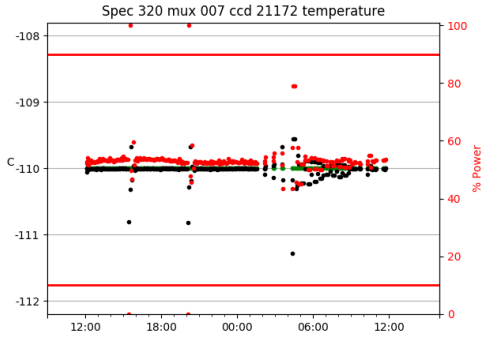

Spec 312 mux 007 ccd 21218 temperature
C
-107
-108
-109
-110
-111
-112
-113
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

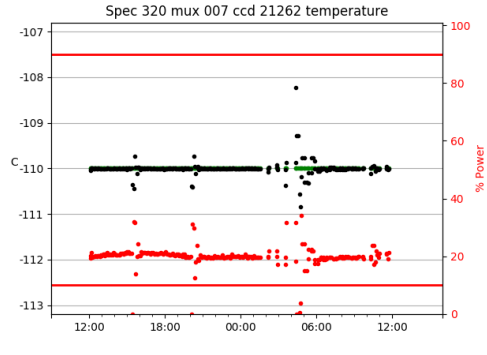

Spec 317 mux 007 Cryo
C
-183
-184
-185
-186
-187
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

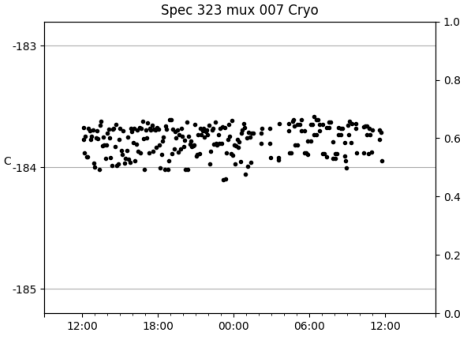

Spec 317 mux 007 ccd 21133 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

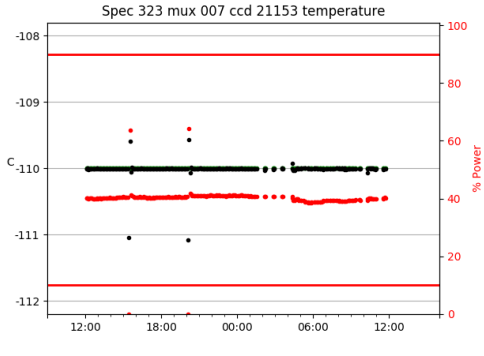

Spec 317 mux 007 ccd 21181 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

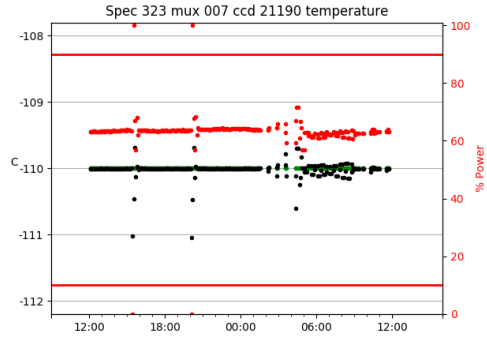

Spec 320 mux 007 Cryo
C
-177
-178
-179
-180
-181
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

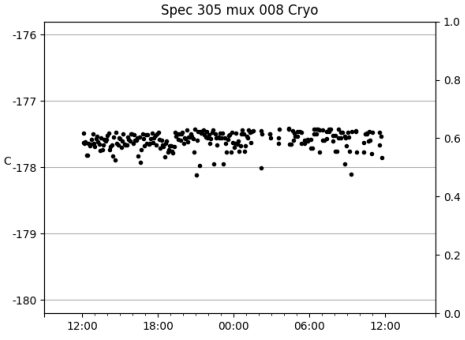

Spec 320 mux 007 ccd 21172 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

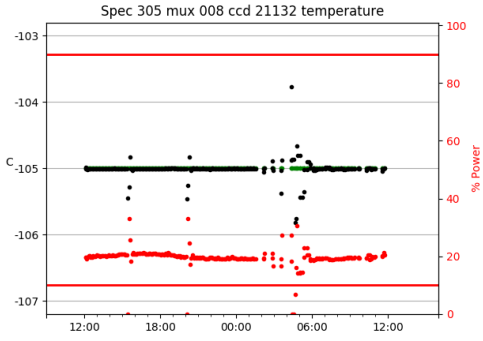

Spec 320 mux 007 ccd 21262 temperature
C
-107
-108
-109
-110
-111
-112
-113
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

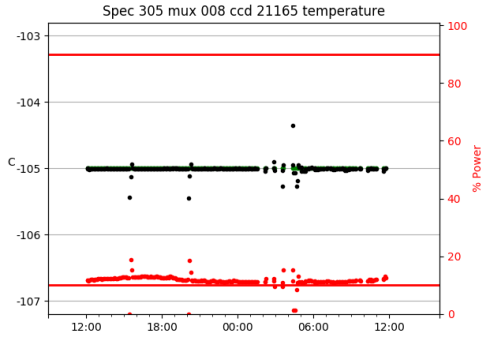

Spec 323 mux 007 Cryo
C
-183
-184
-185
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

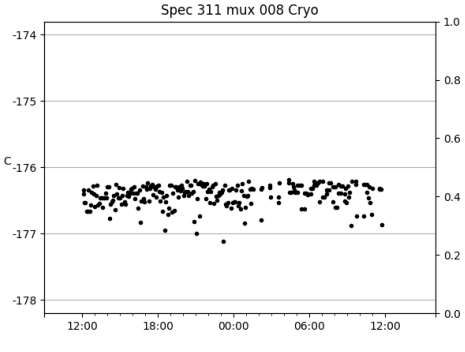

Spec 323 mux 007 ccd 21153 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

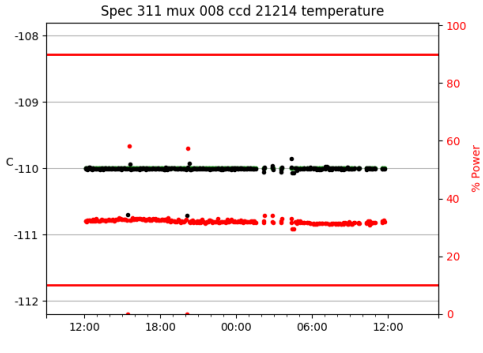

Spec 323 mux 007 ccd 21190 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

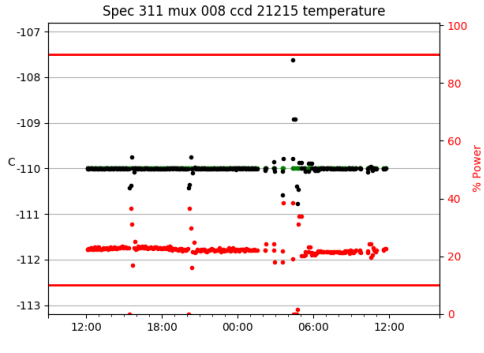

Spec 305 mux 008 Cryo
C
-176
-177
-178
-179
-180
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

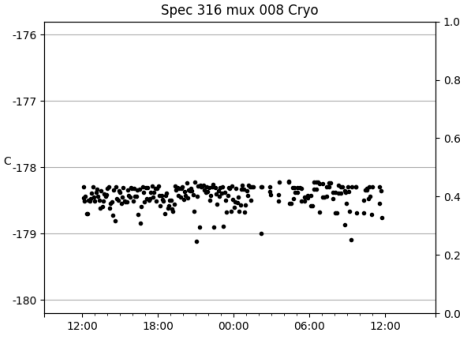

Spec 305 mux 008 ccd 21132 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

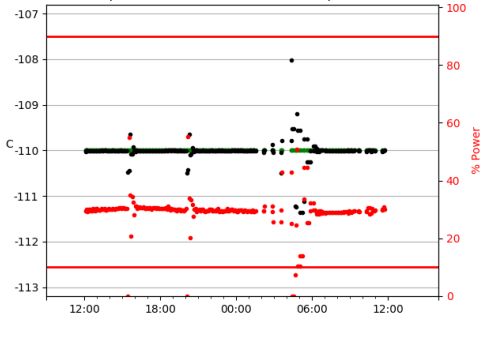

Spec 305 mux 008 ccd 21165 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

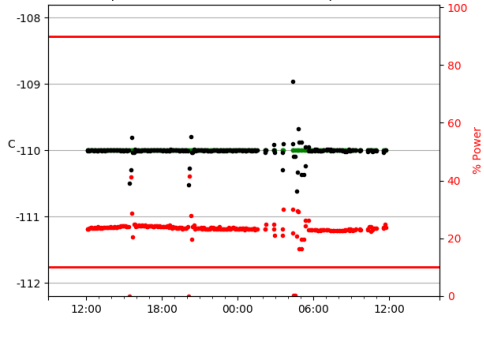

Spec 311 mux 008 Cryo
C
-174
-175
-176
-177
-178
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

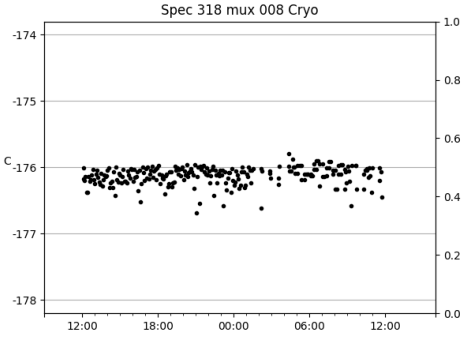

Spec 311 mux 008 ccd 21214 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

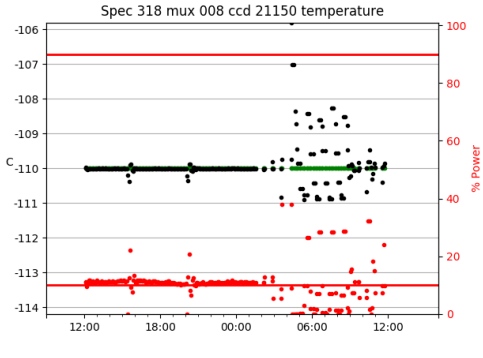

Spec 311 mux 008 ccd 21215 temperature
C
-107
-108
-109
-110
-111
-112
-113
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

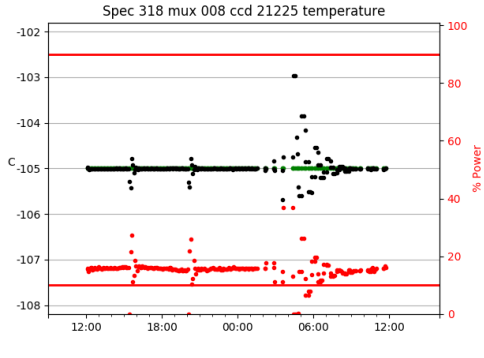

Spec 316 mux 008 Cryo
C
-176
-177
-178
-179
-180
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

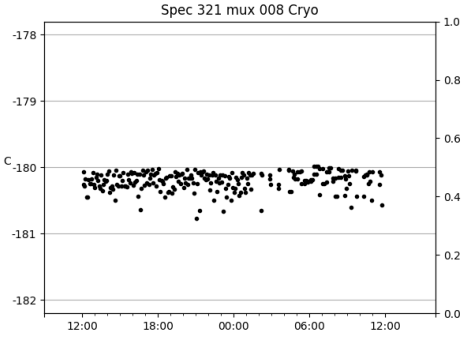

Spec 316 mux 008 ccd 21188 temperature
C
-107
-108
-109
-110
-111
-112
-113
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

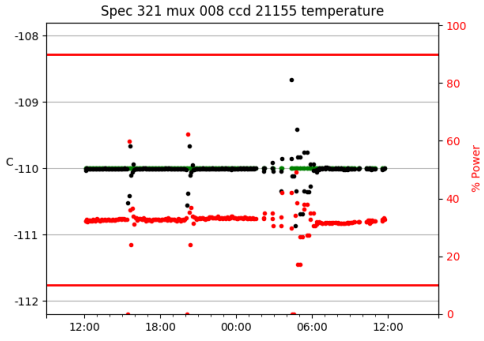

Spec 316 mux 008 ccd 21195 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

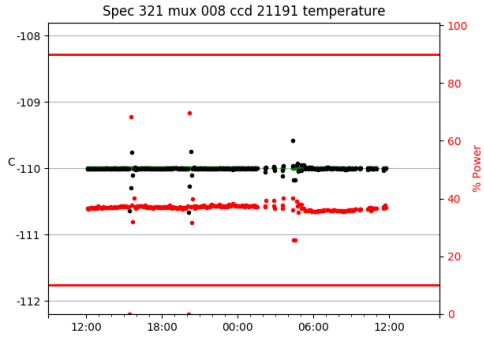

Spec 318 mux 008 Cryo
C
-174
-175
-176
-177
-178
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

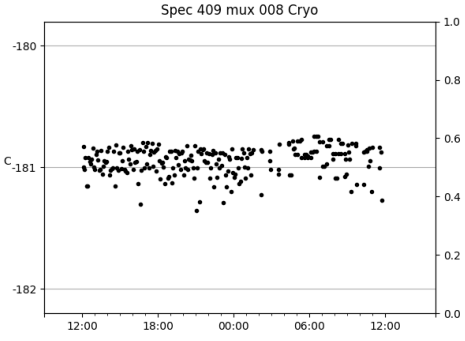

Spec 318 mux 008 ccd 21150 temperature
C
-106
-107
-108
-109
-110
-111
-112
-113
-114
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

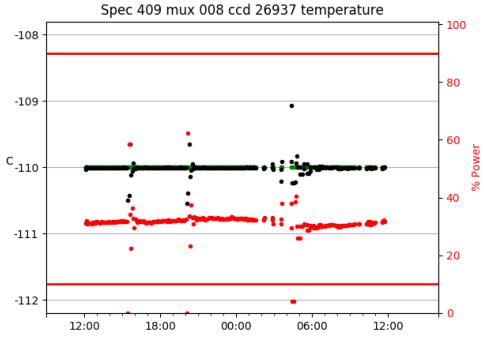

Spec 318 mux 008 ccd 21225 temperature
C
-102
-103
-104
-105
-106
-107
-108
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

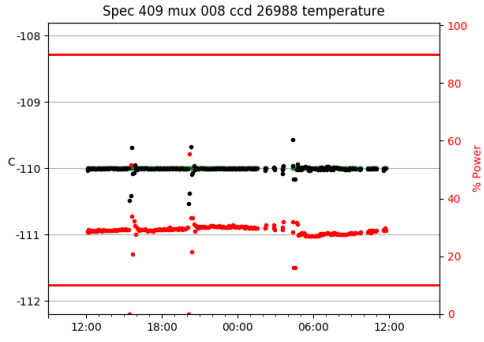

Spec 321 mux 008 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

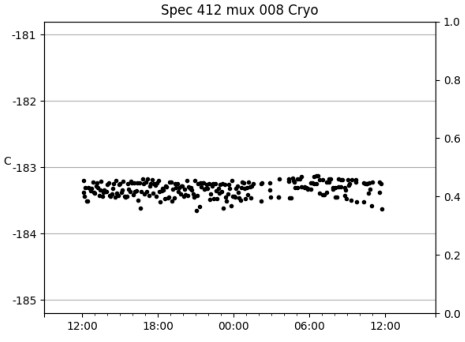

Spec 321 mux 008 ccd 21155 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

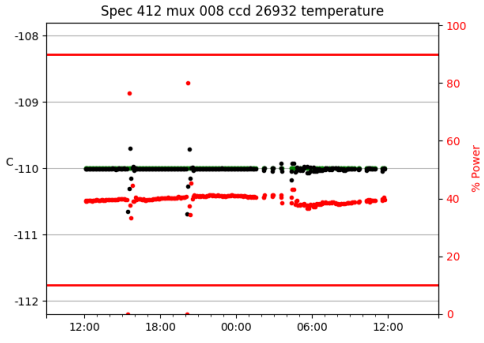

Spec 321 mux 008 ccd 21191 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

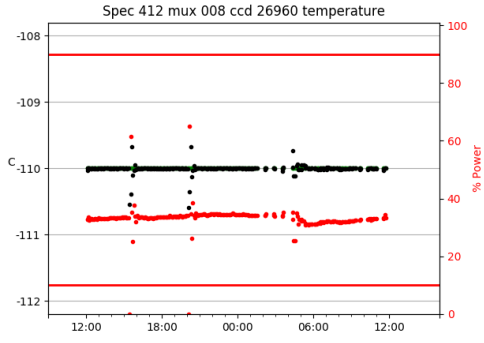

Spec 409 mux 008 Cryo
C
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

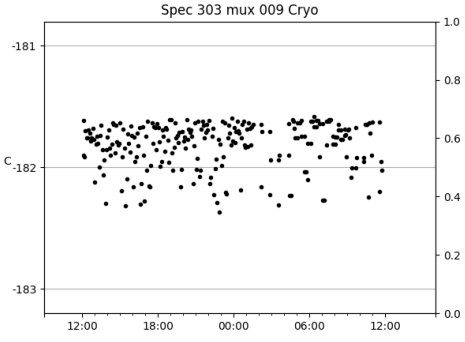

Spec 409 mux 008 ccd 26937 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

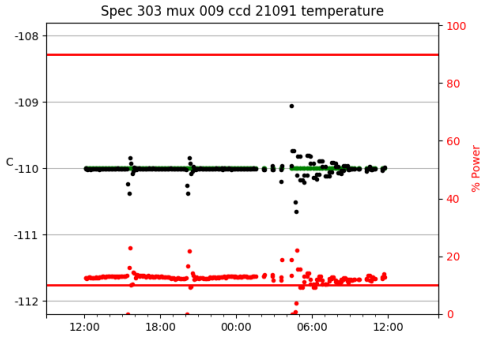

Spec 409 mux 008 ccd 26988 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

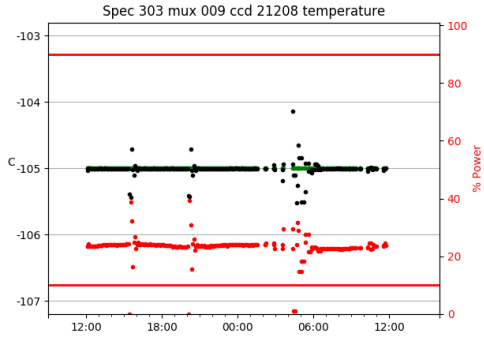

Spec 412 mux 008 Cryo
C
-181
-182
-183
-184
-185
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

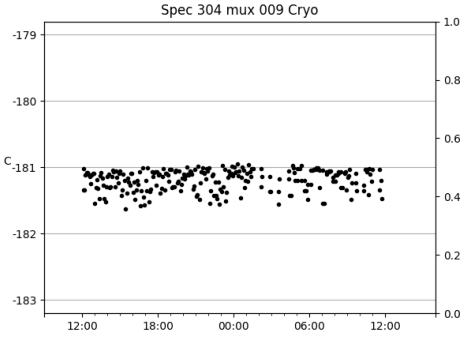

Spec 412 mux 008 ccd 26932 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

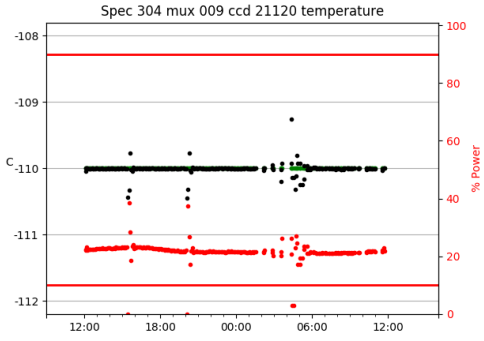

Spec 412 mux 008 ccd 26960 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

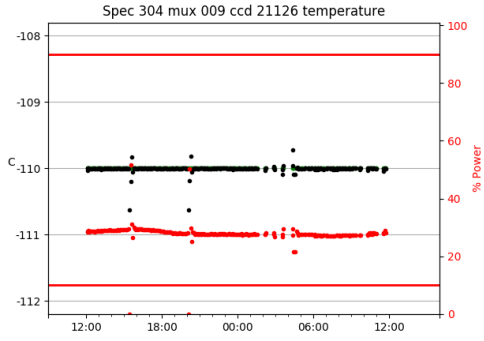

Spec 303 mux 009 Cryo
C
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

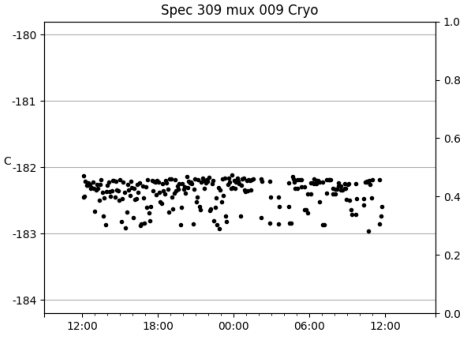

Spec 303 mux 009 ccd 21091 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

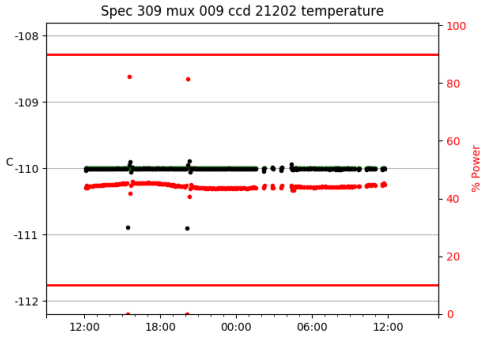

Spec 303 mux 009 ccd 21208 temperature
C
-103
-104
-105
-106
-107
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

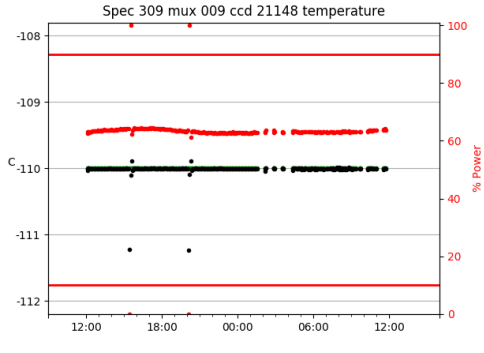

Spec 304 mux 009 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

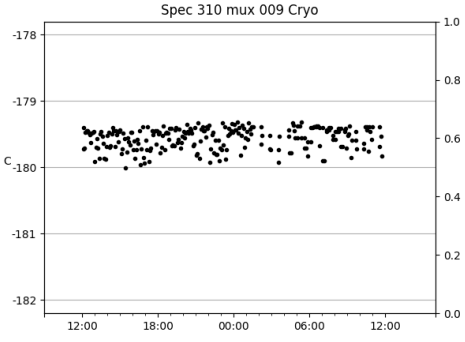

Spec 304 mux 009 ccd 21120 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

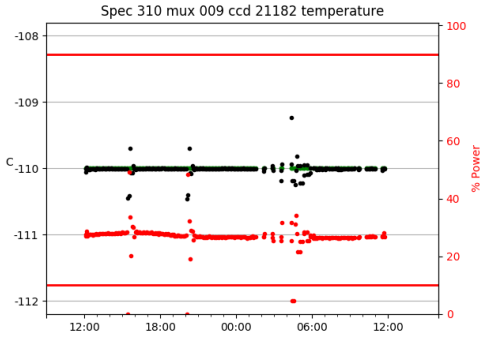

Spec 304 mux 009 ccd 21126 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

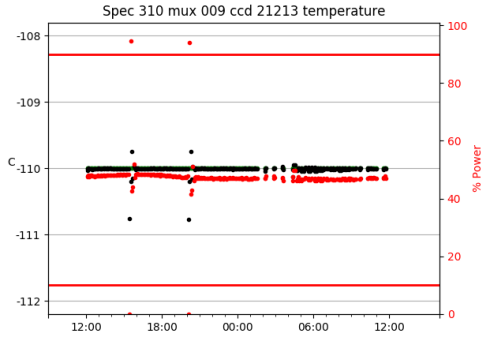

Spec 309 mux 009 Cryo
C
-180
-181
-182
-183
-184
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

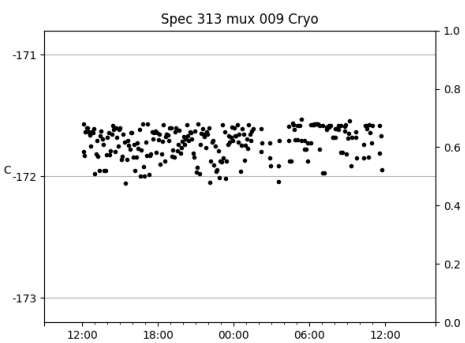

Spec 309 mux 009 ccd 21202 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

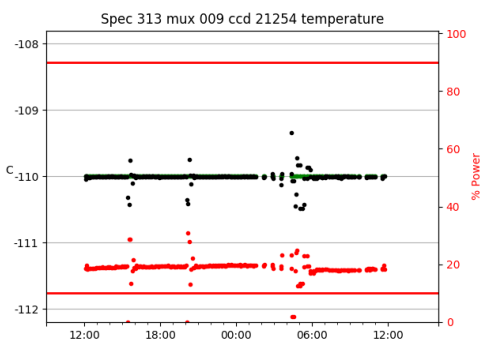

Spec 309 mux 009 ccd 21148 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

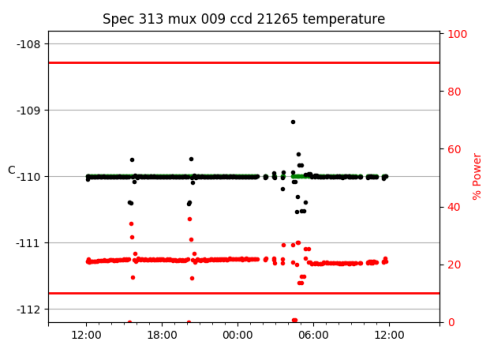

Spec 310 mux 009 Cryo
C
-178
-179
-180
-181
-182
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

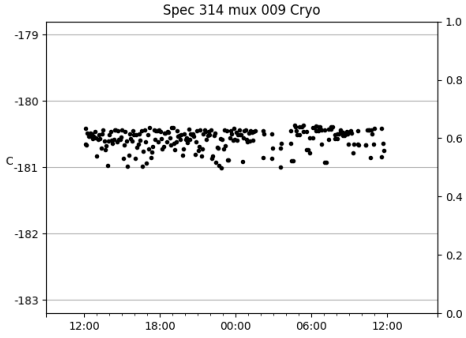

Spec 310 mux 009 ccd 21182 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

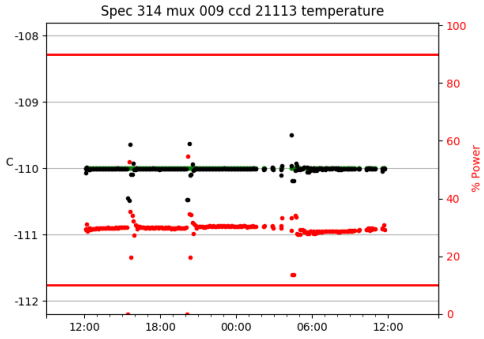

Spec 310 mux 009 ccd 21213 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

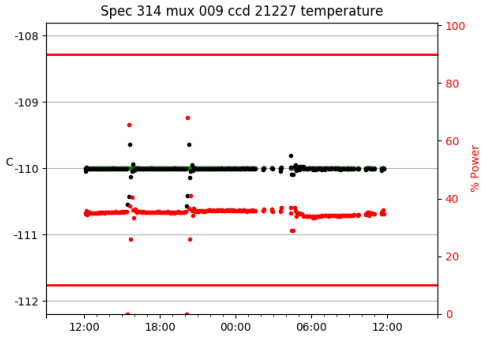

Spec 313 mux 009 Cryo
C
-171
-172
-173
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

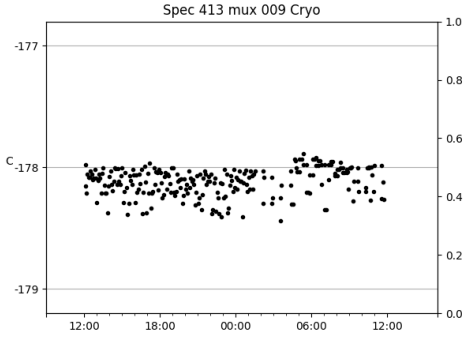

Spec 313 mux 009 ccd 21254 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

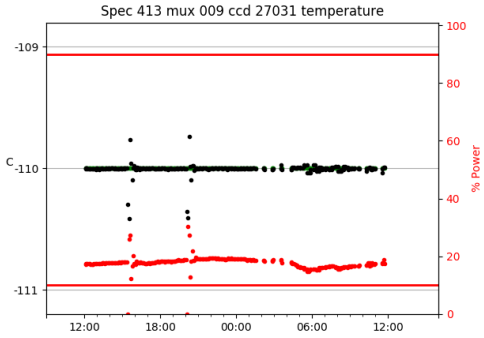

Spec 313 mux 009 ccd 21265 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

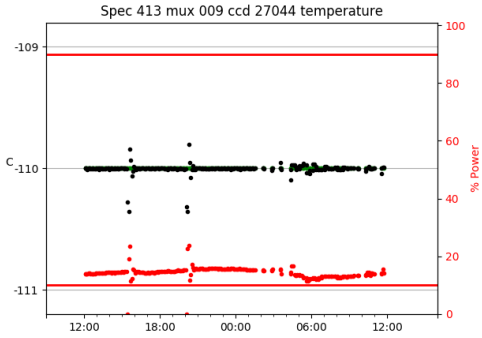

Spec 314 mux 009 Cryo
C
-179
-180
-181
-182
-183
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00


Spec 314 mux 009 ccd 21113 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

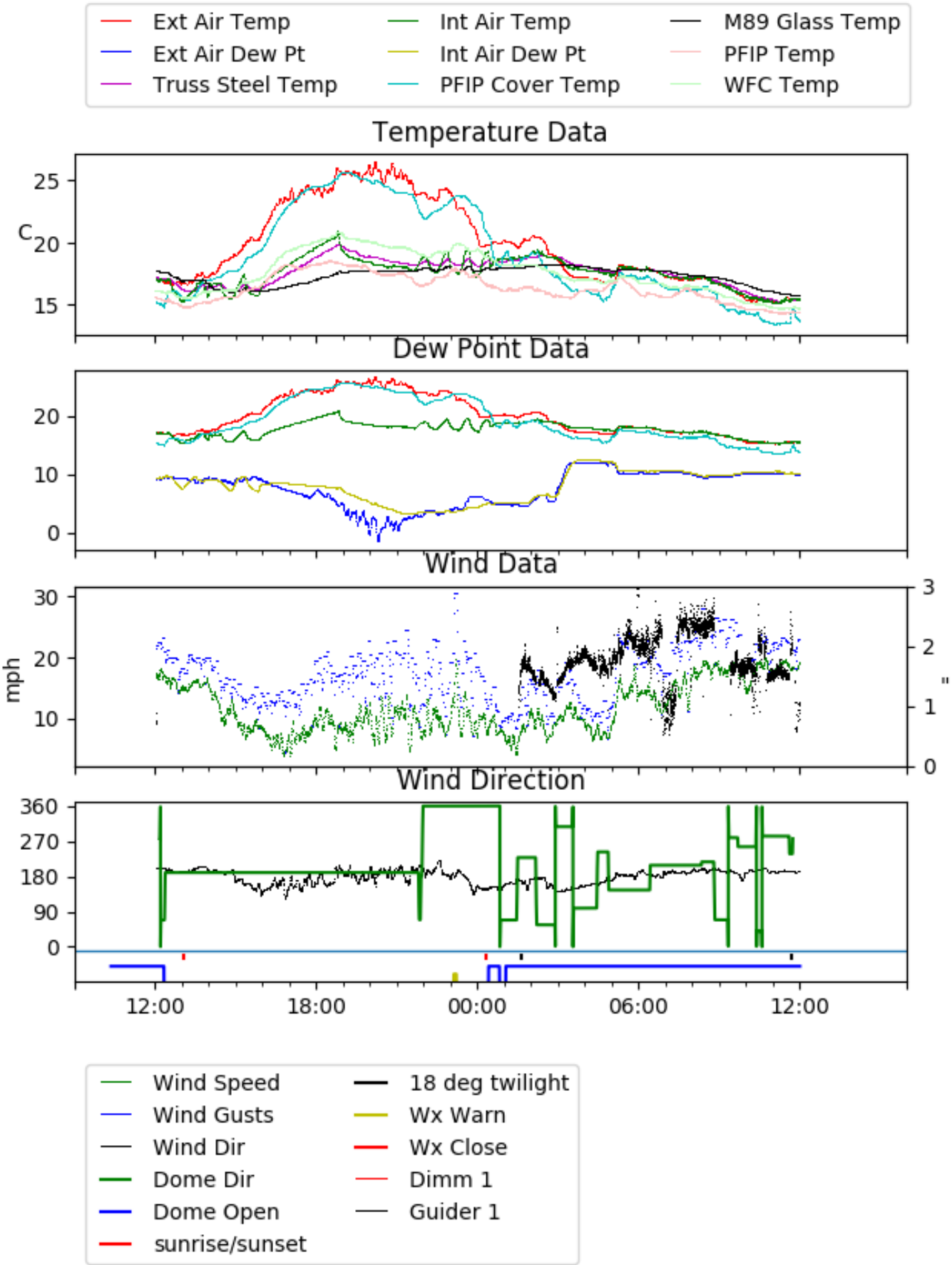

Spec 314 mux 009 ccd 21227 temperature
C
-108
-109
-110
-111
-112
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00


Spec 413 mux 009 Cryo
C
-177
-178
-179
1.0
0.8
0.6
0.4
0.2
0.0
12:00
18:00
00:00
06:00
12:00

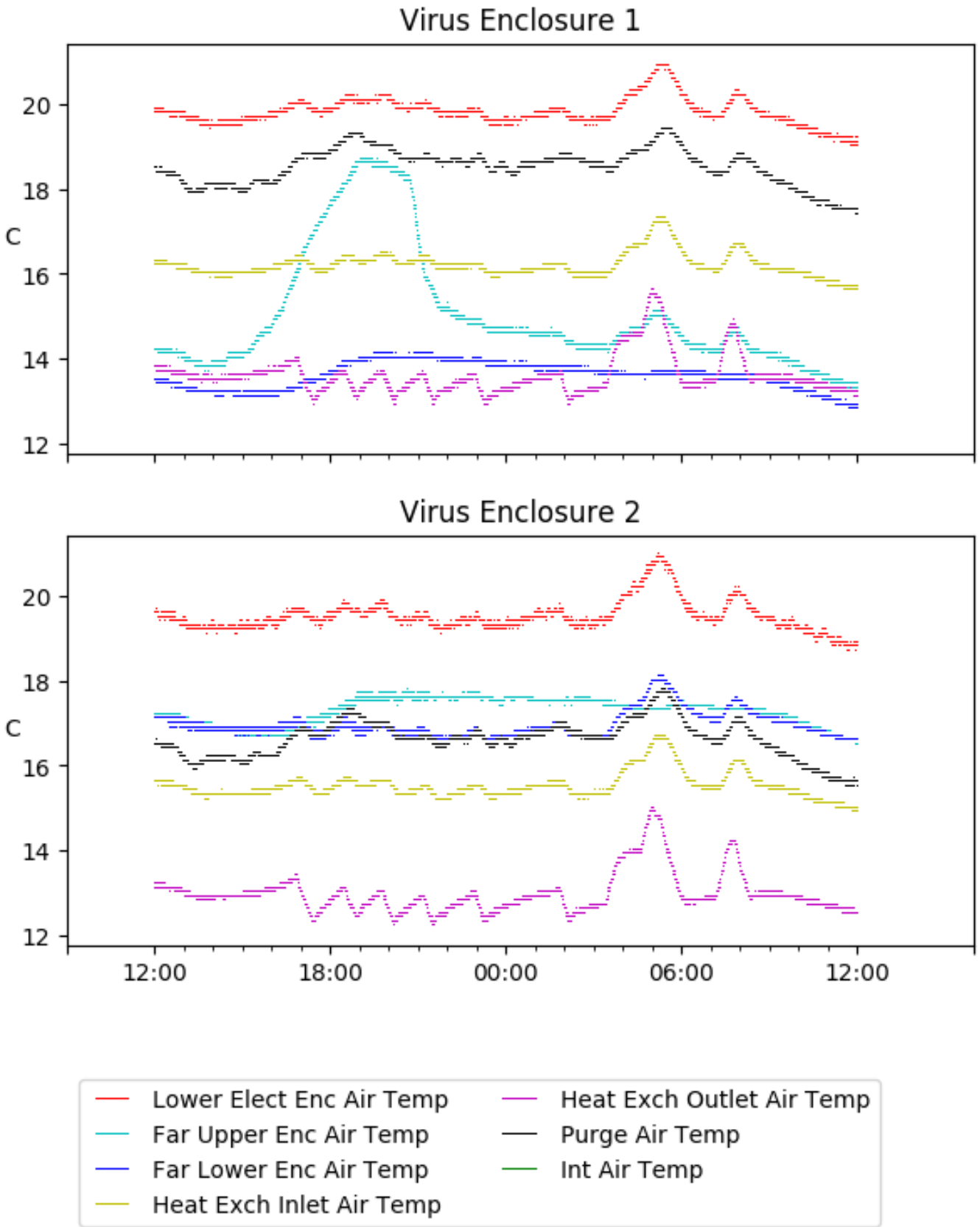

Spec 413 mux 009 ccd 27031 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00


Spec 413 mux 009 ccd 27044 temperature
C
-109
-110
-111
% Power
100
80
60
40
20
0
12:00
18:00
00:00
06:00
12:00

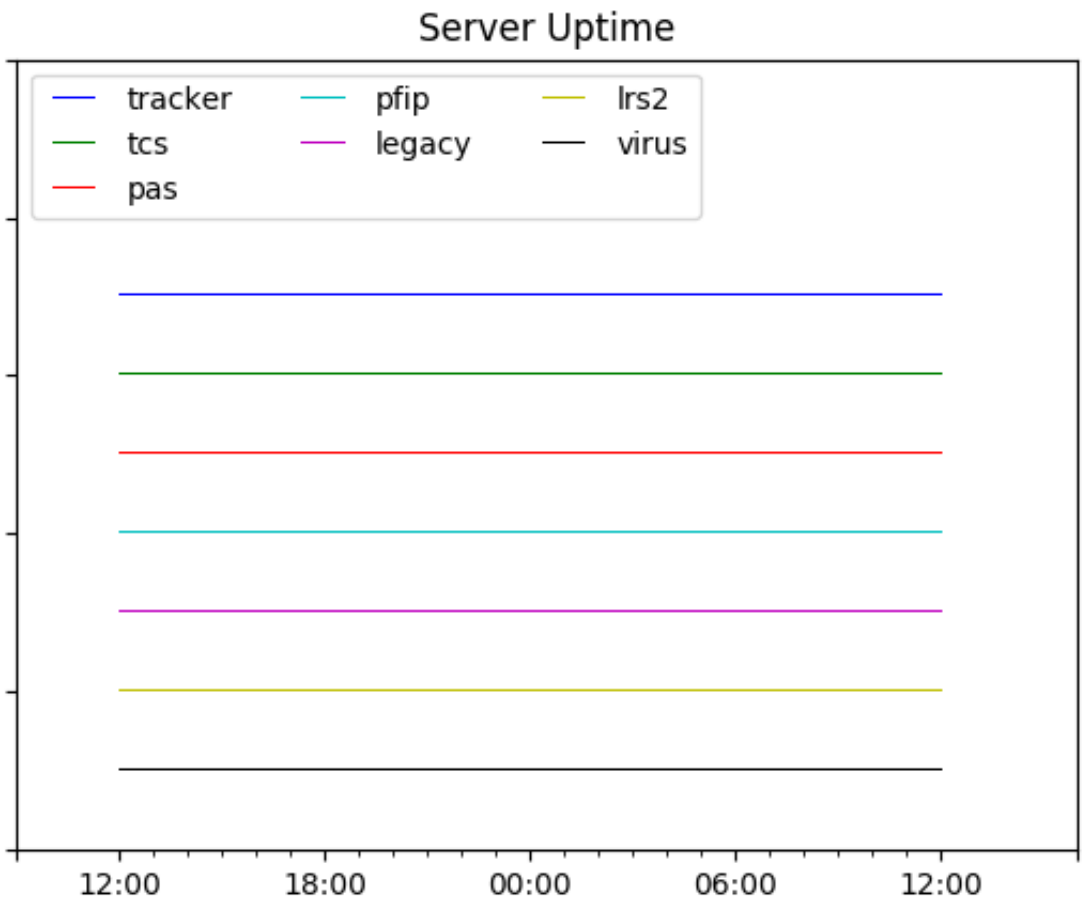
3 Weather


Ext Air Temp
Ext Air Dew Pt
Truss Steel Temp
Int Air Temp
Int Air Dew Pt
PFIP Cover Temp
M89 Glass Temp
PFIP Temp
WFC Temp
Temperature Data
C
25
20
15
Dew Point Data
20
10
0
Wind Data
mph
30
20
10
3
2
1
0
"
Wind Direction
360
270
180
90
0
12:00
18:00
00:00
06:00
12:00
Wind Speed
Wind Gusts
Wind Dir
Dome Dir
Dome Open
sunrise/sunset
18 deg twilight
Wx Warn
Wx Close
Dimm 1
Guider 1

4 Virus Enclosures



5 Server Up Time

Current server run times:

tracker uptime: 16:20:25 (hh:mm:ss)
tcs uptime: 16:20:45 (hh:mm:ss)
pas uptime: 16:20:50 (hh:mm:ss)
pfip uptime: 16:21:00 (hh:mm:ss)
legacy uptime: 16:22:08 (hh:mm:ss)
lrs2 uptime: 1312:00:02 (hh:mm:ss)
virus uptime: 17:52:44 (hh:mm:ss)