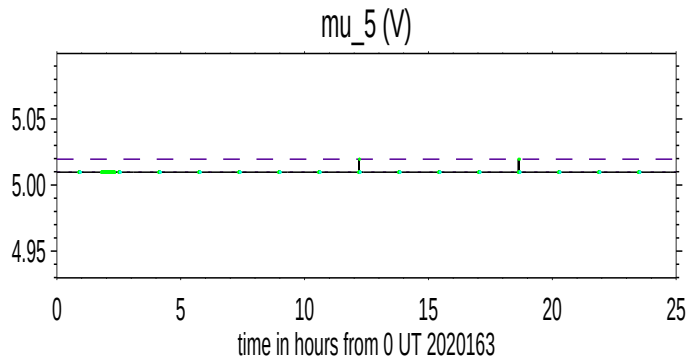
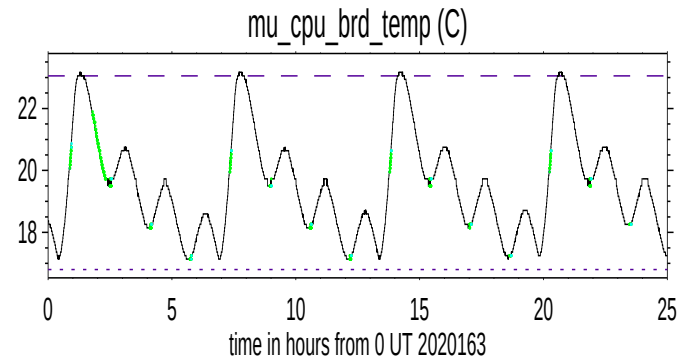
```
Information for      2020163
17:19:39.002: see_stat[1]: 15 internal error
```


mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2020163


mu_cpu_brd_temp (C)
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20
18
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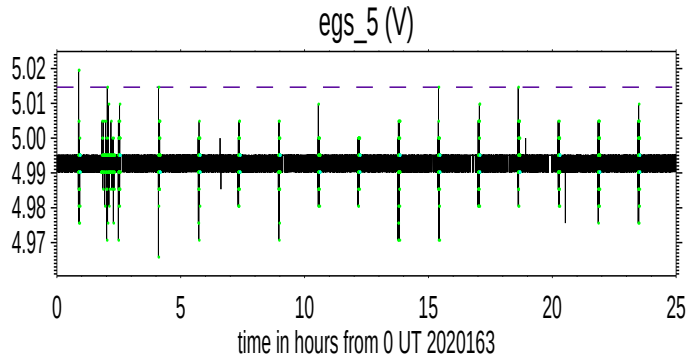
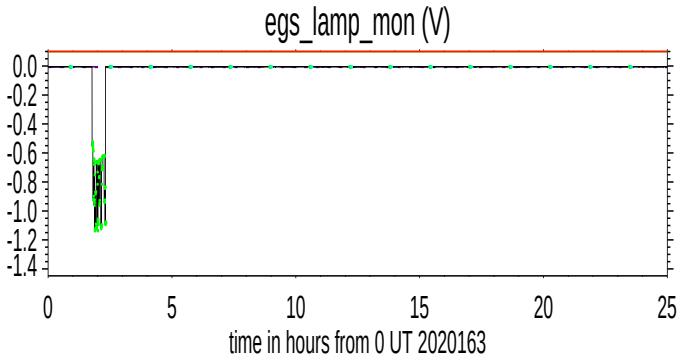
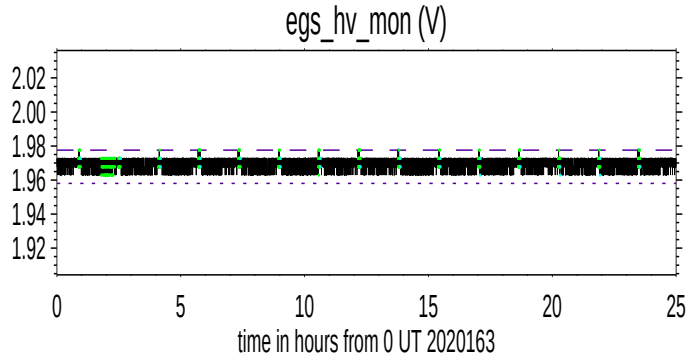
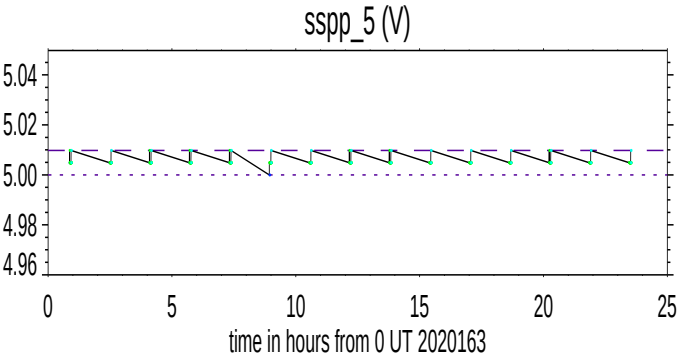
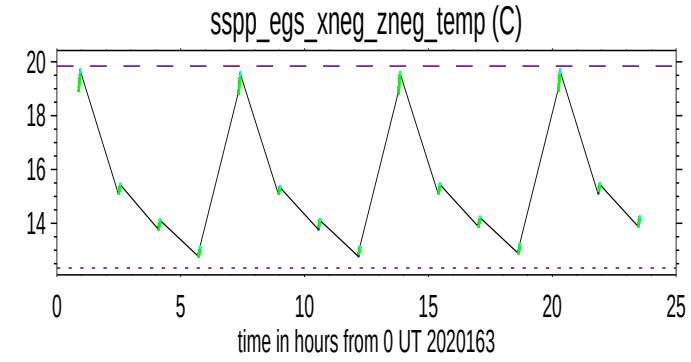
5
10
15
20
25
time in hours from 0 UT 2020163

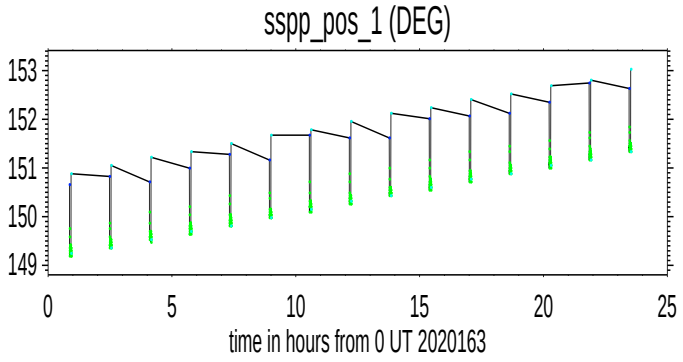

egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
0
5
10
15
20
25
time in hours from 0 UT 2020163

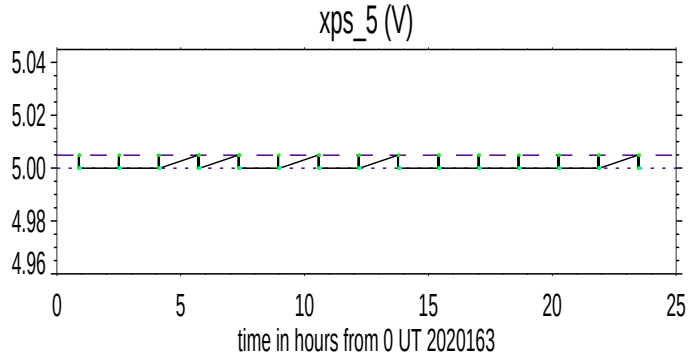

egs_lamp_mon (V)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
0
5
10
15
20
25
time in hours from 0 UT 2020163

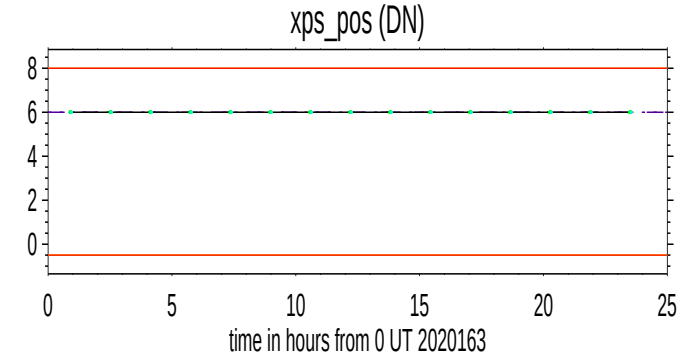

egs_hv_mon (V)
2.02
2.00
1.98
1.96
1.94
1.92
0
5
10
15
20
25
time in hours from 0 UT 2020163

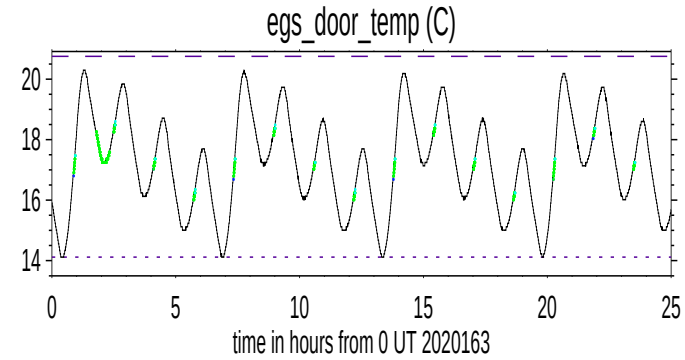

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020163

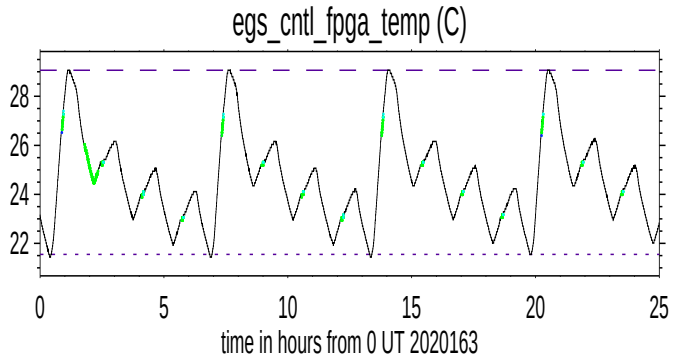

sspp_egs_xneg_zneg_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

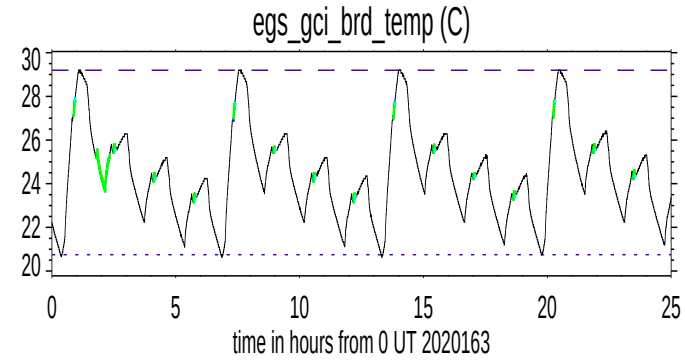

sspp_pos_1 (DEG)
153
152
151
150
149
0
5
10
15
20
25
time in hours from 0 UT 2020163

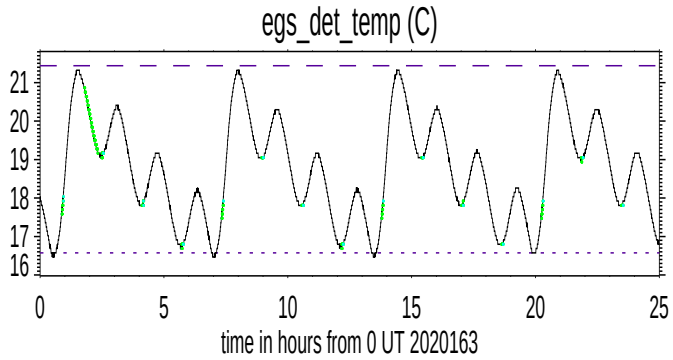

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020163


xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_door_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_cntl_fpga_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_gci_brd_temp (C)
30
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_det_temp (C)
21
20
19
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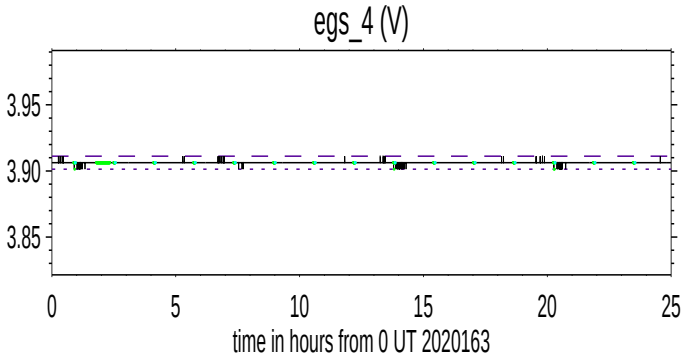
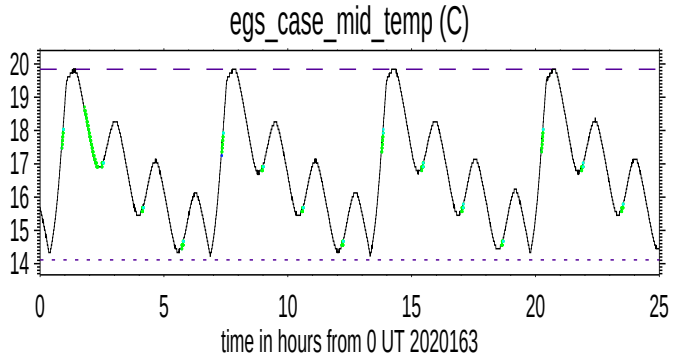
17
16
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_case_mid_temp (C)
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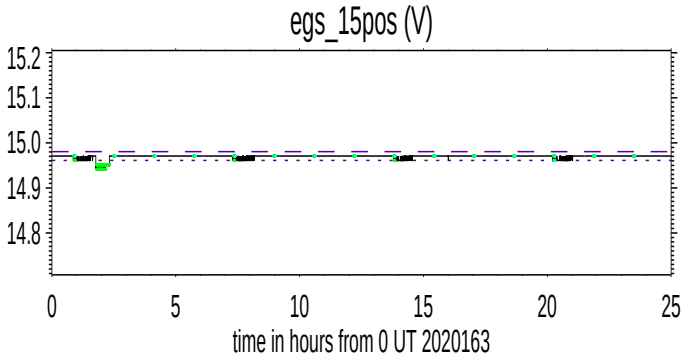
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_15pos (V)
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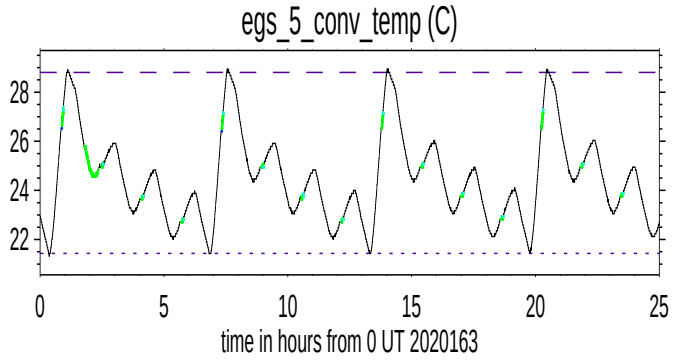
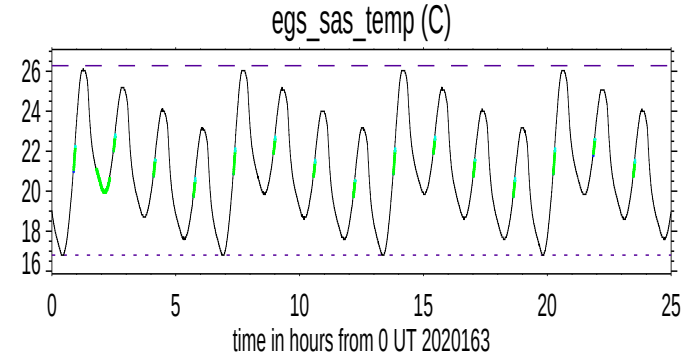
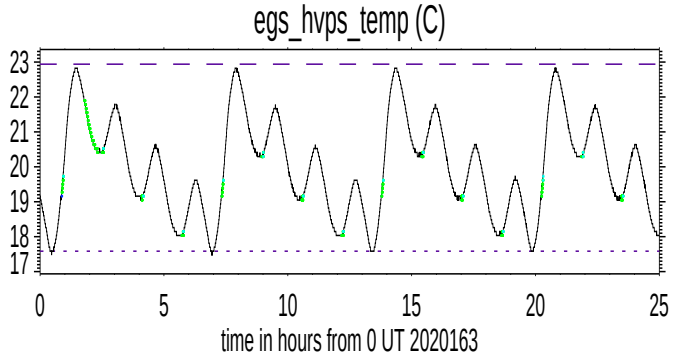
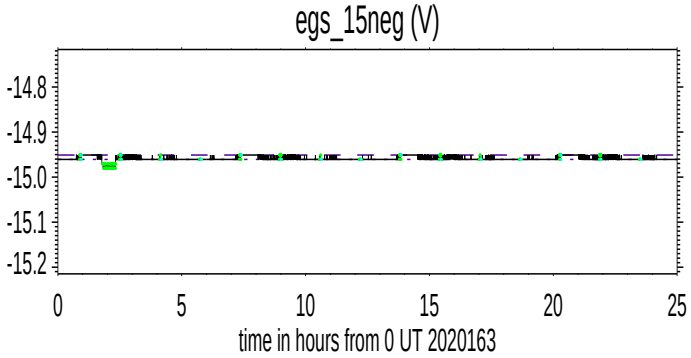
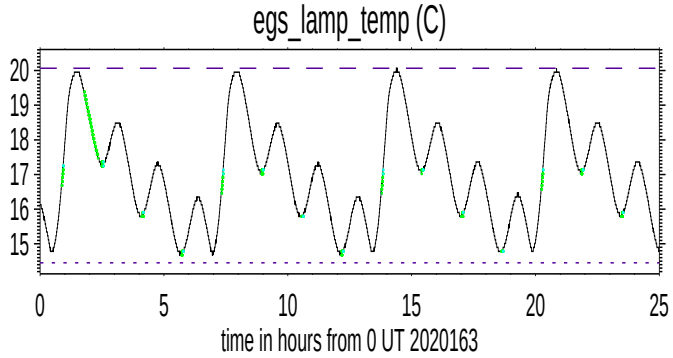
15.1
15.0
14.9
14.8
0
5
10
15
20
25
time in hours from 0 UT 2020163

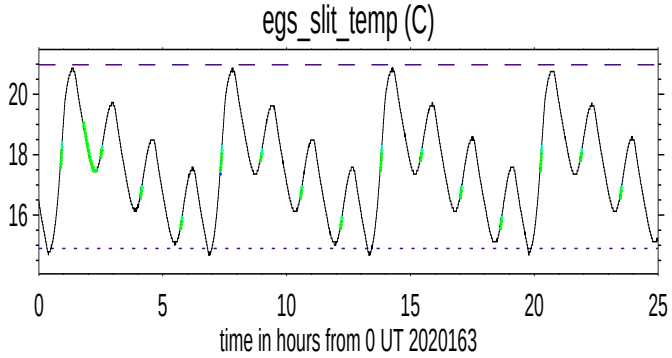

egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020163

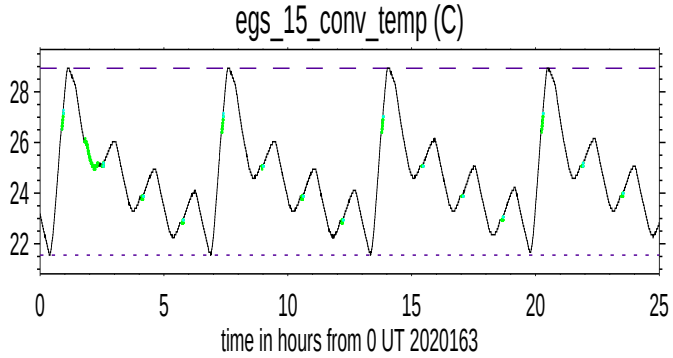

egs_sas_temp (C)
26
24
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_hvps_temp (C)
23
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020163


egs_15neg (V)
-14.8
-14.9
-15.0
-15.1
-15.2
0 5 10 15 20 25
time in hours from 0 UT 2020163


egs_lamp_temp (C)
20 19 18 17 16 15
0 5 10 15 20 25
time in hours from 0 UT 2020163


egs_slit_temp (C)
20 18 16
0 5 10 15 20 25
time in hours from 0 UT 2020163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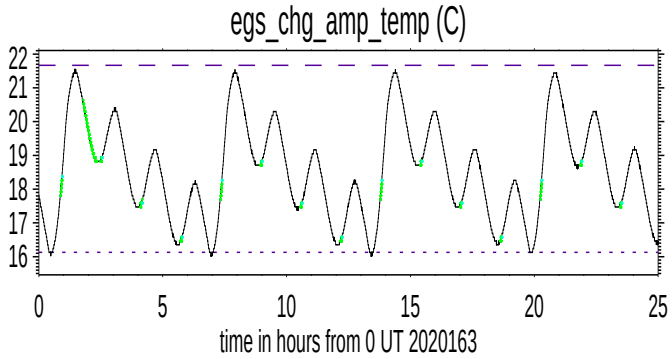
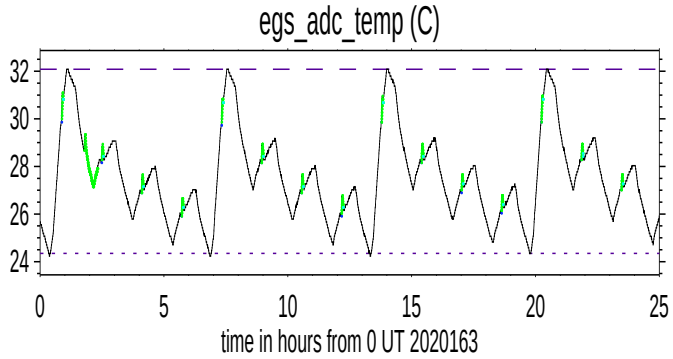
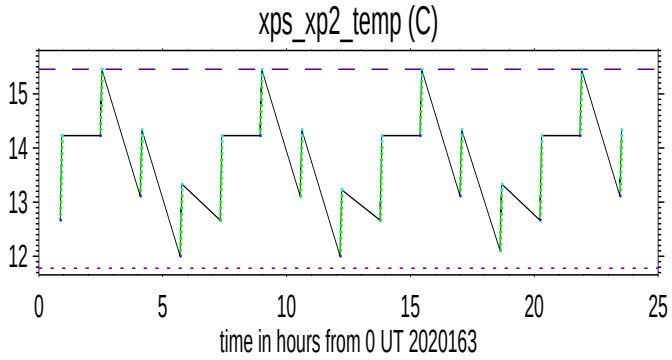
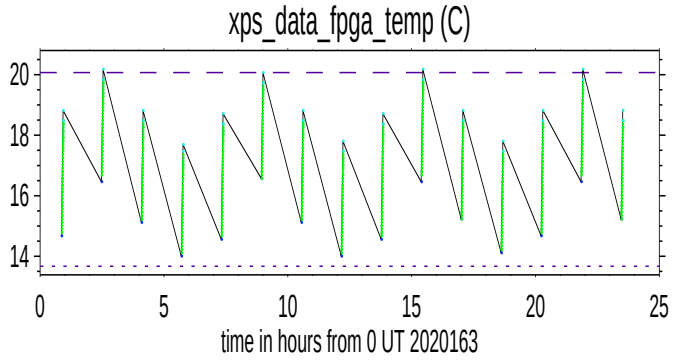
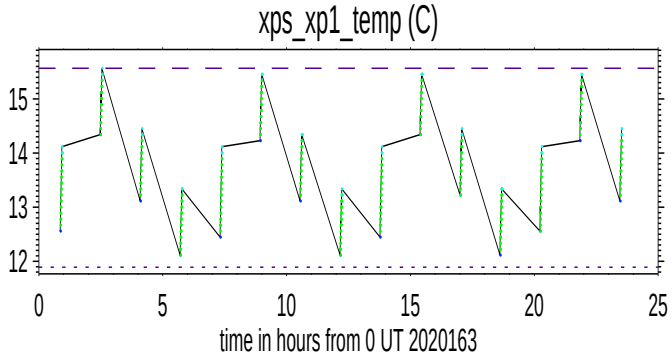
28 26 24 22
0 5 10 15 20 25
time in hours from 0 UT 2020163

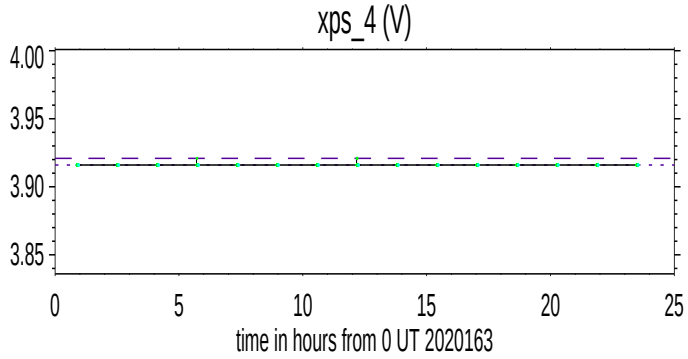

egs_chg_amp_temp (C)
22 21 20 19 18 17 16
0 5 10 15 20 25
time in hours from 0 UT 2020163

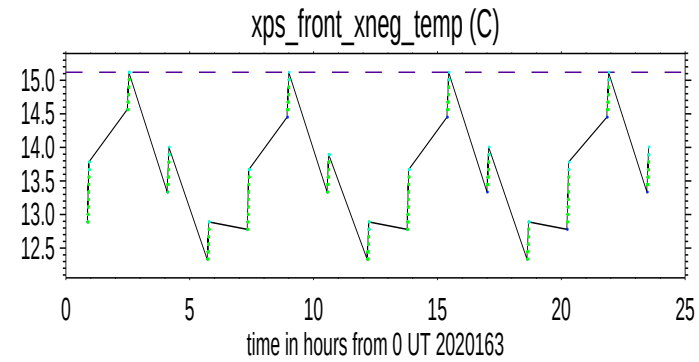

egs_adc_temp (C)
32 30 28 26 24
0 5 10 15 20 25
time in hours from 0 UT 2020163


xps_xp2_temp (C)
15 14 13 12
0 5 10 15 20 25
time in hours from 0 UT 2020163


xps_data_fpga_temp (C)
20 18 16 14
0 5 10 15 20 25
time in hours from 0 UT 2020163


xps_xp1_temp (C)
15 14 13 12
0 5 10 15 20 25
time in hours from 0 UT 2020163


xps_4 (V)
4.00 3.95 3.90 3.85
0 5 10 15 20 25
time in hours from 0 UT 2020163


xps_front_xneg_temp (C)
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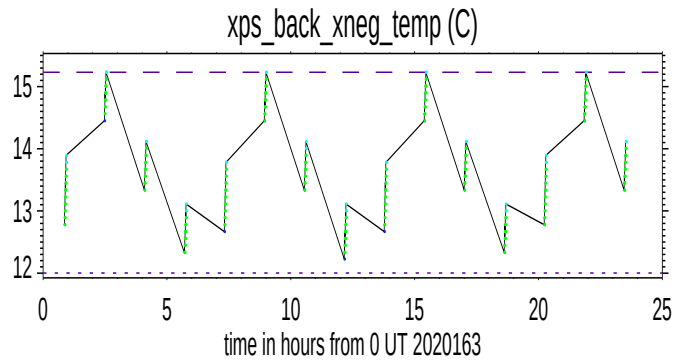
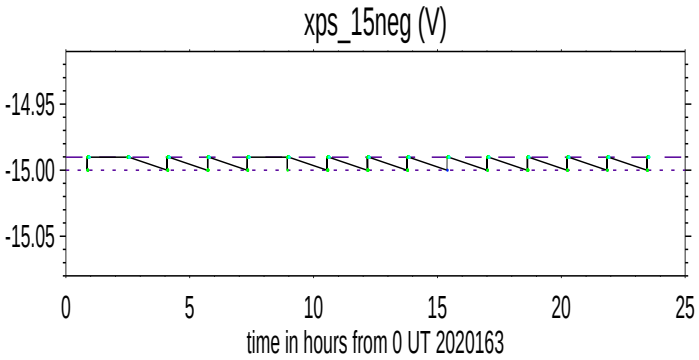
14.5
14.0
13.5
13.0
12.5
0
5
10
15
20
25
time in hours from 0 UT 2020163


xps_back_xneg_temp (C)
15
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2020163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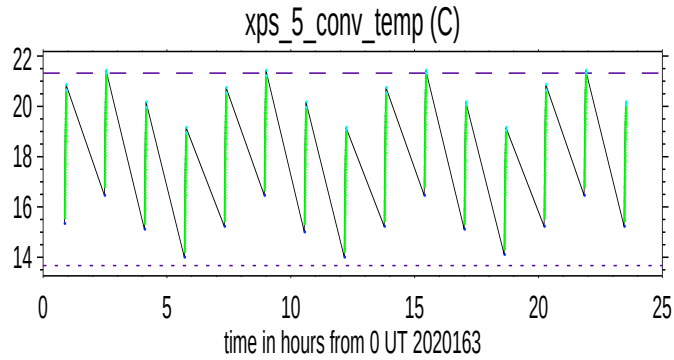
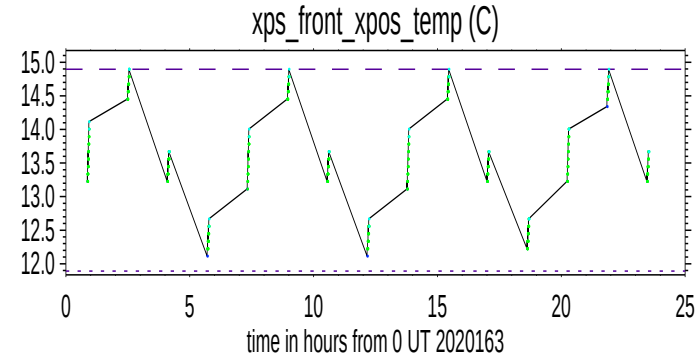
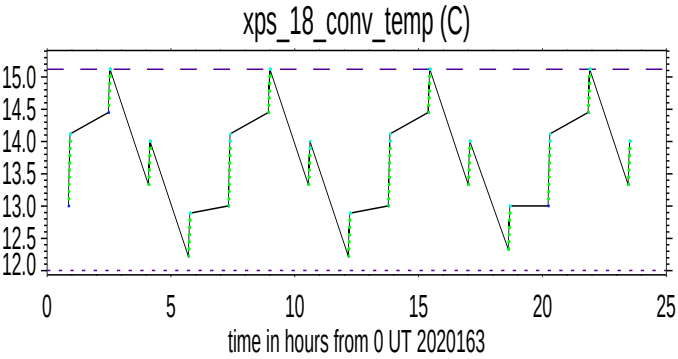
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2020163


xps_5_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163


xps_front_xpos_temp (C)
15.0
14.5
14.0
13.5
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020163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15.0
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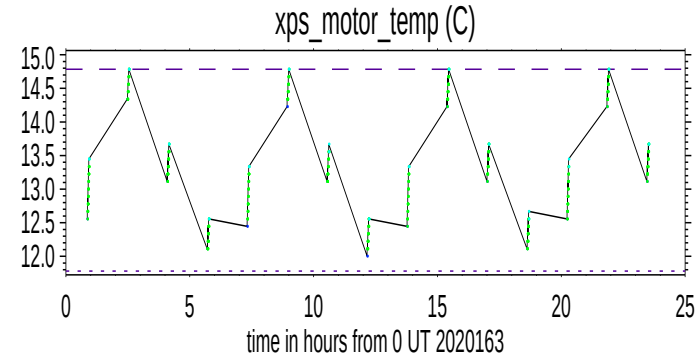
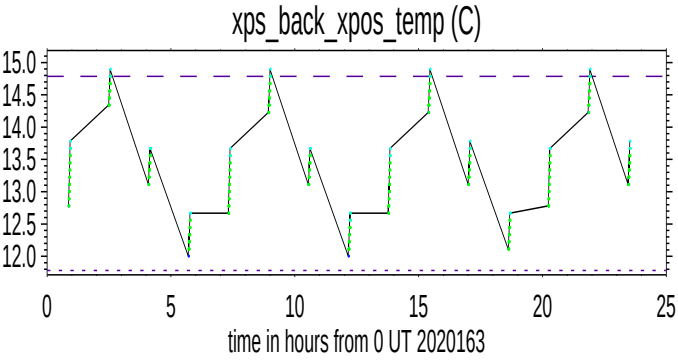
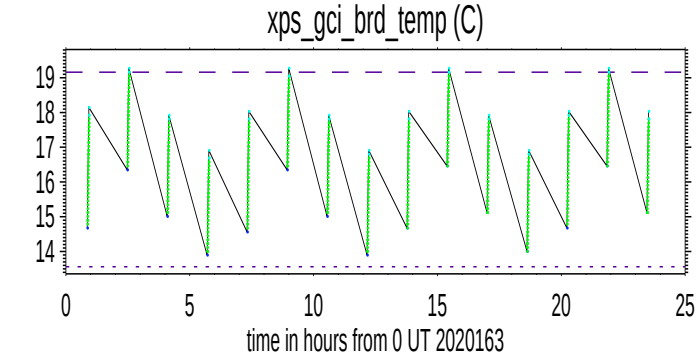
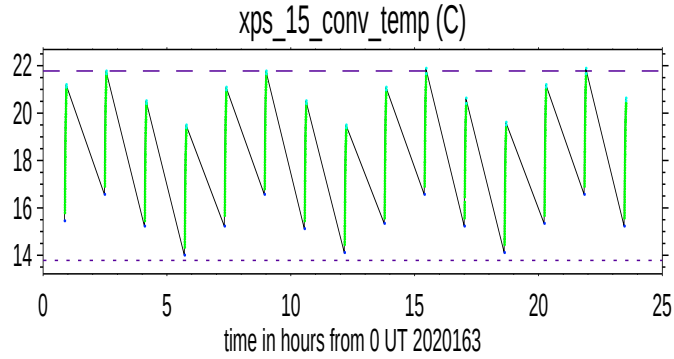
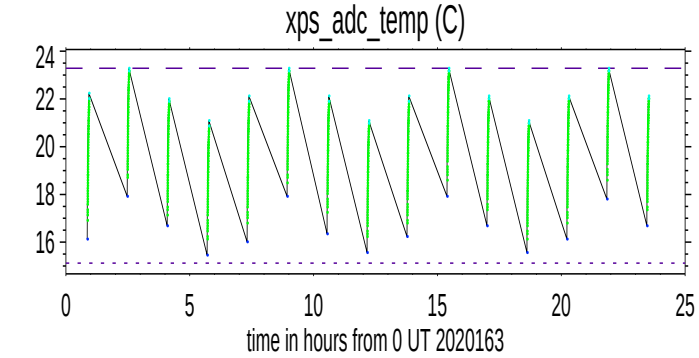
13.5
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020163

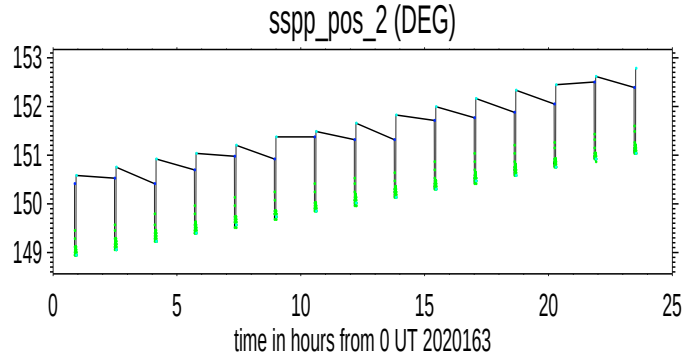

xps_motor_temp (C)
15.0
14.5
14.0
13.5
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020163

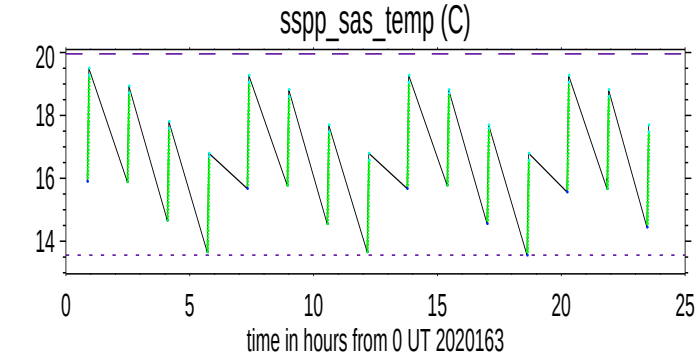

xps_back_xpos_temp (C)
15.0
14.5
14.0
13.5
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020163

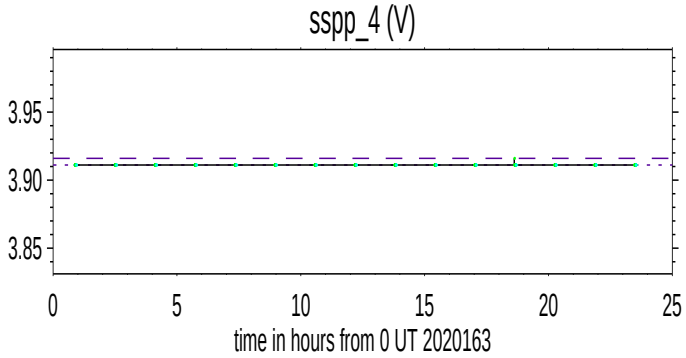

xps_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

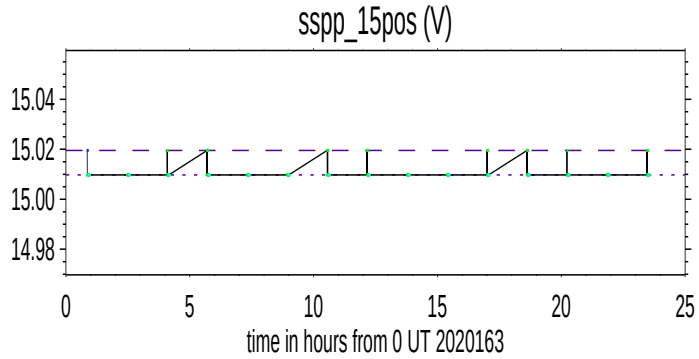

xps_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

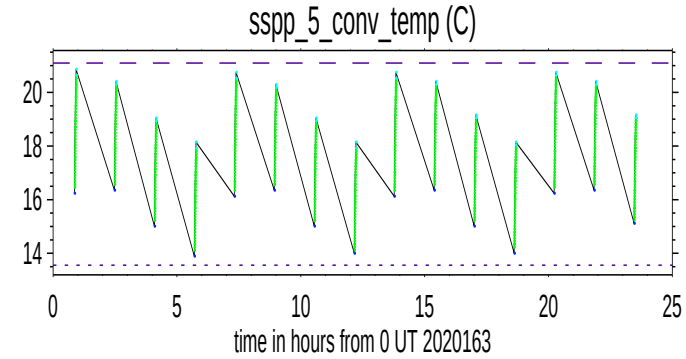

xps_adc_temp (C)
24
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020163

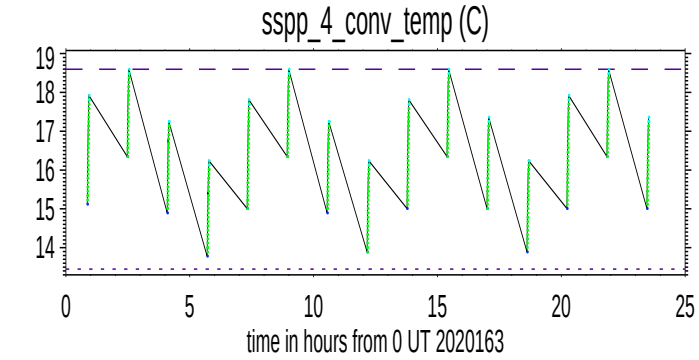

sspp_pos_2 (DEG)
153
152
151
150
149
0
5
10
15
20
25
time in hours from 0 UT 2020163

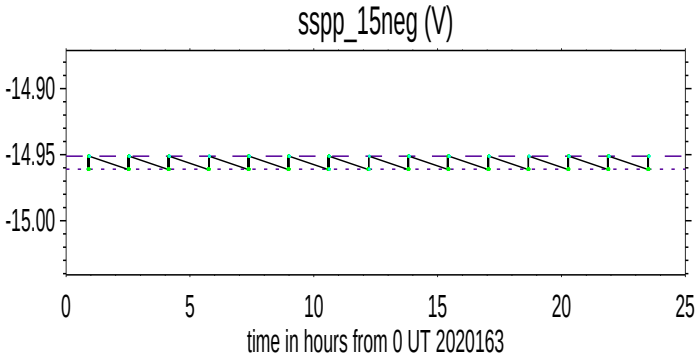

sspp_sas_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

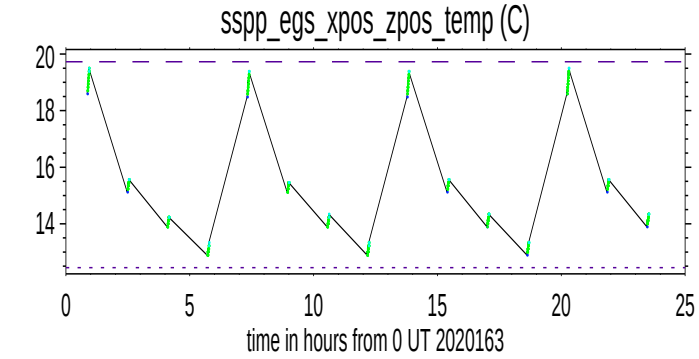

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020163

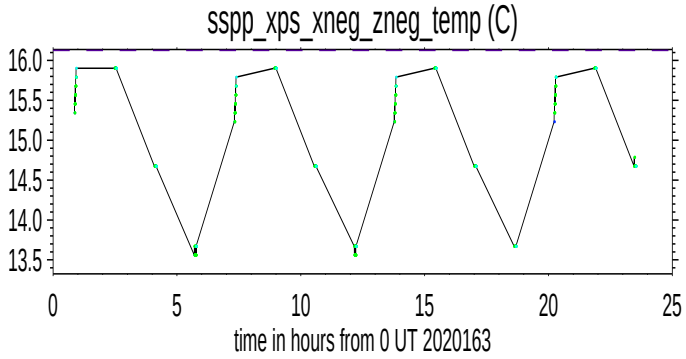

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2020163

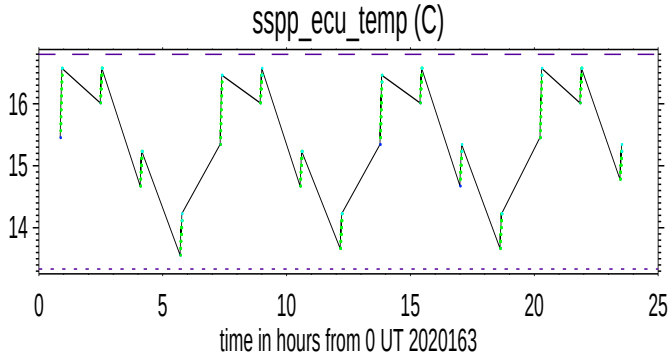

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

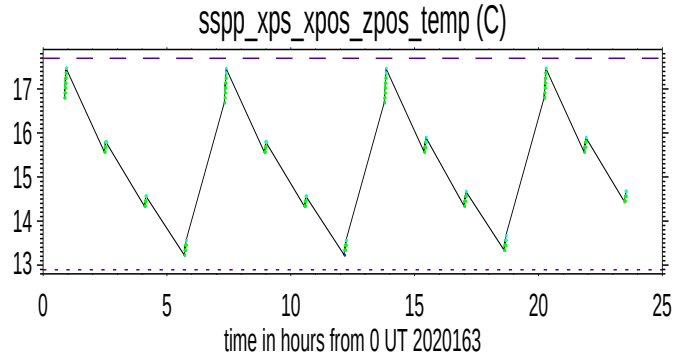

sspp_4_conv_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

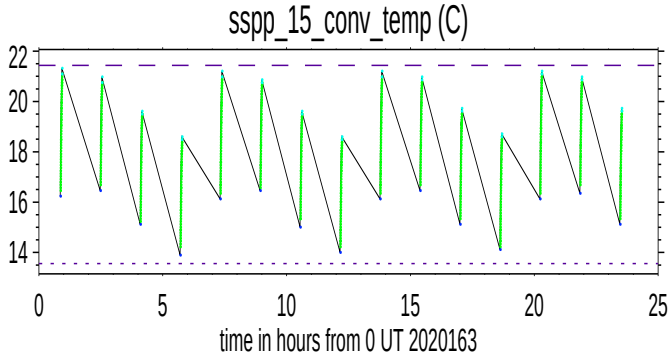

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020163

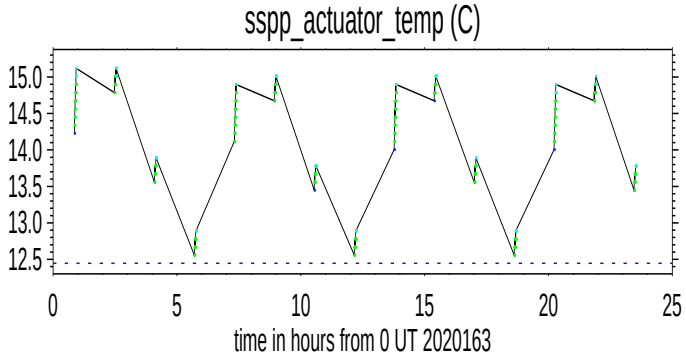

sspp_egs_xpos_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

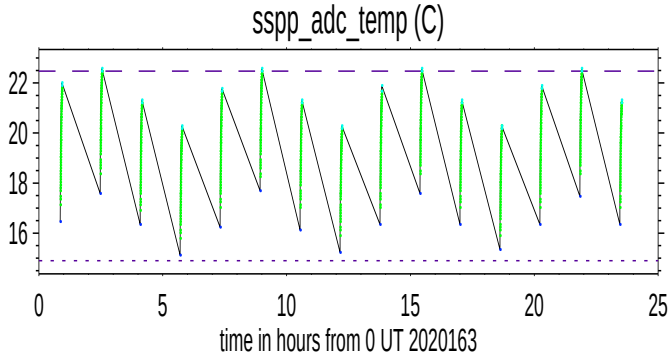

sspp_xps_xneg_zneg_temp (C)
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020163

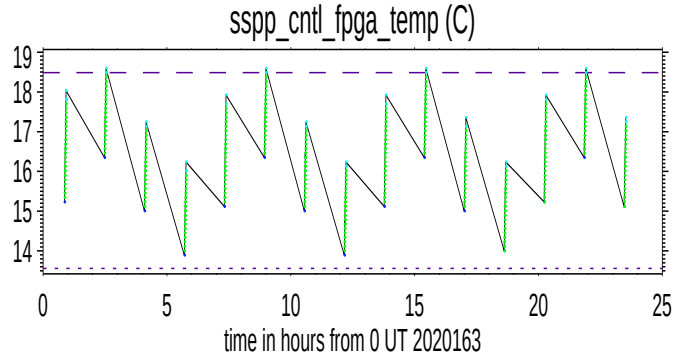

sspp_ecu_temp (C)
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

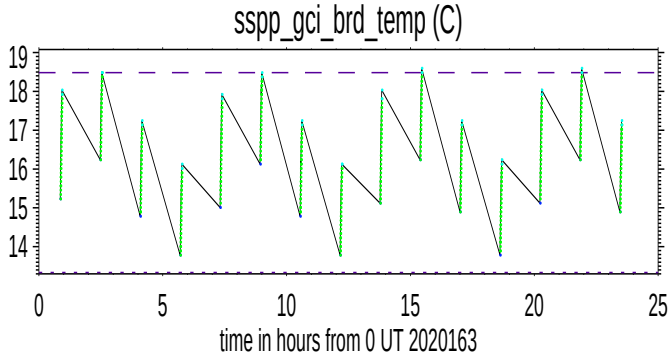

sspp_xps_xpos_zpos_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2020163

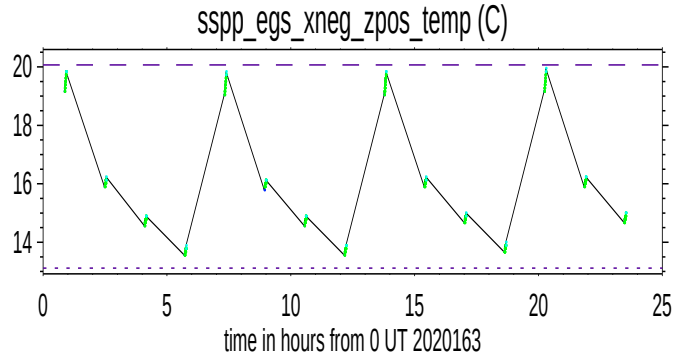

sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

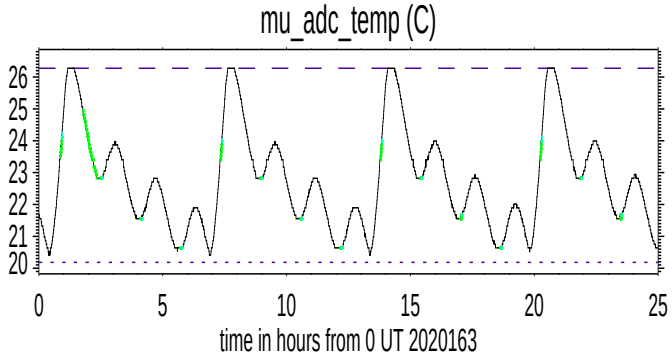

sspp_actuator_temp (C)
15.0
14.5
14.0
13.5
13.0
12.5
0
5
10
15
20
25
time in hours from 0 UT 2020163

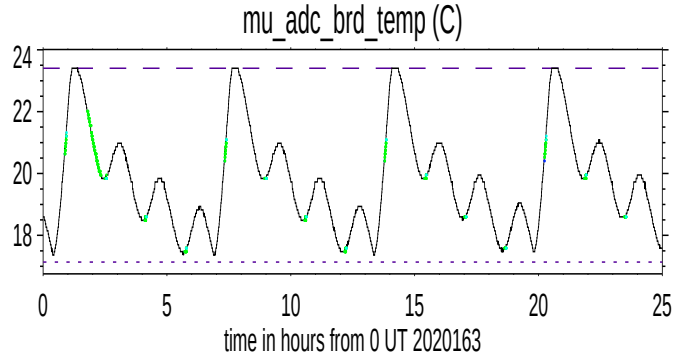

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020163

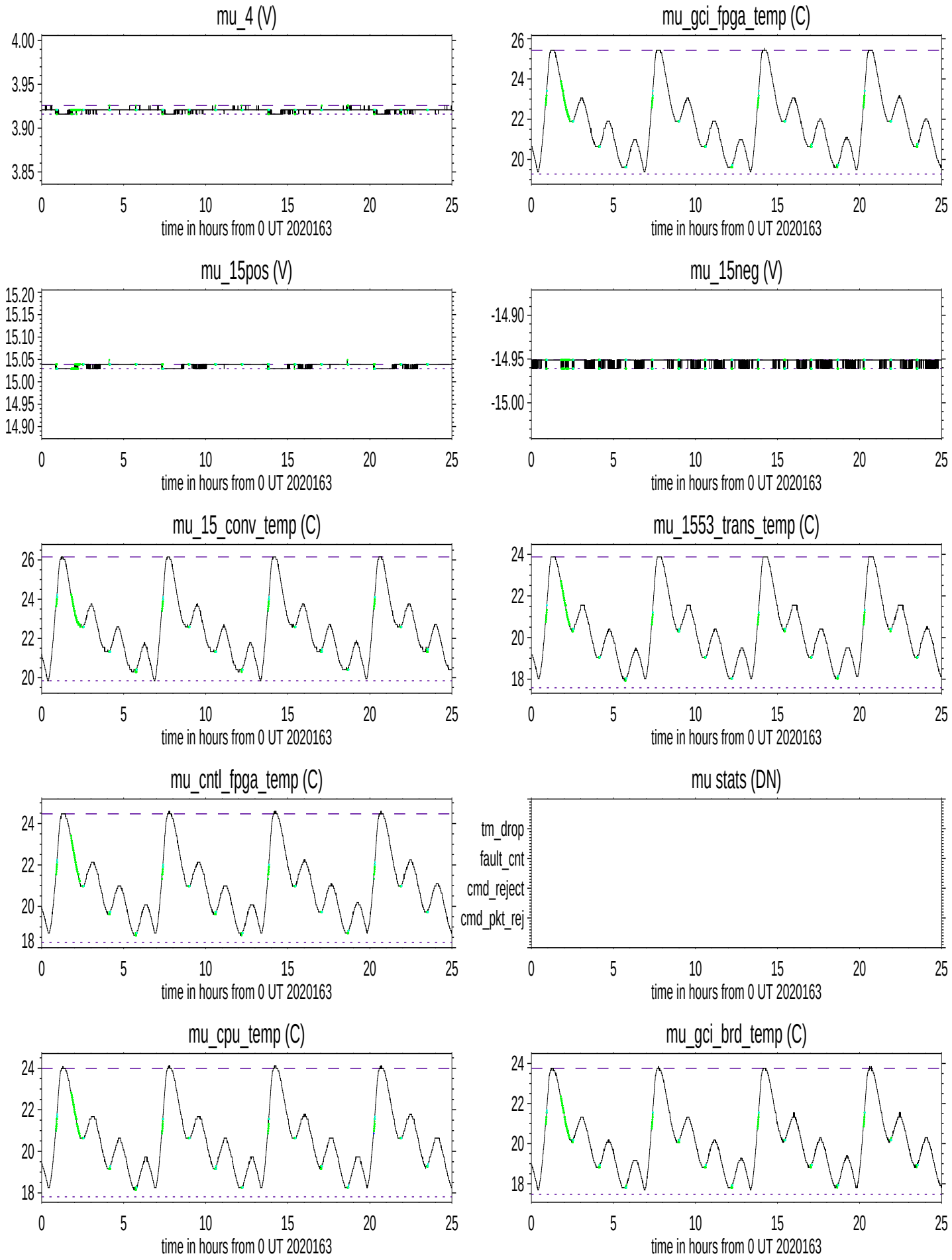

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

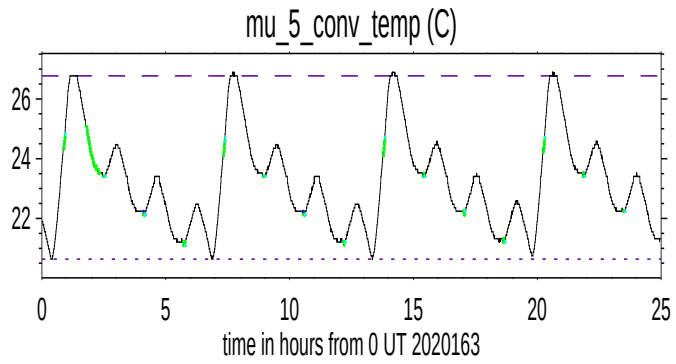

sspp_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

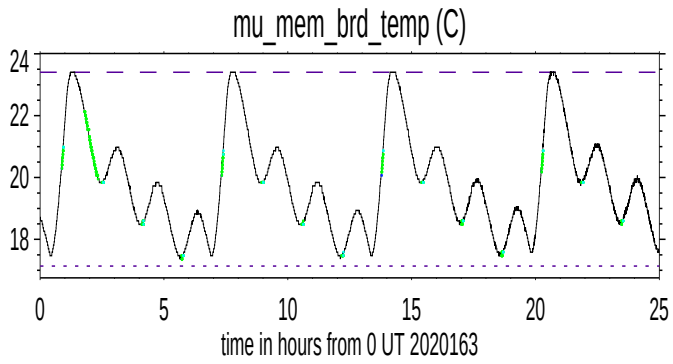

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020163

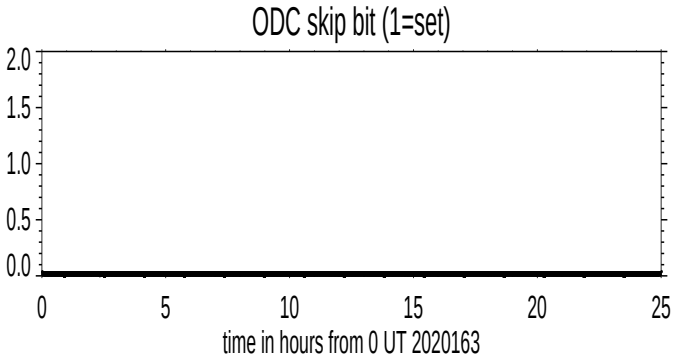

mu_adc_temp (C)
26
25
24
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020163

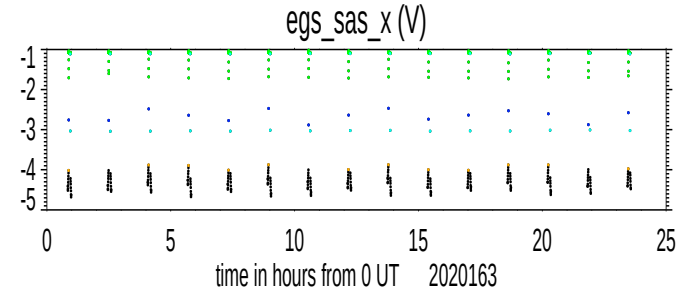

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020163

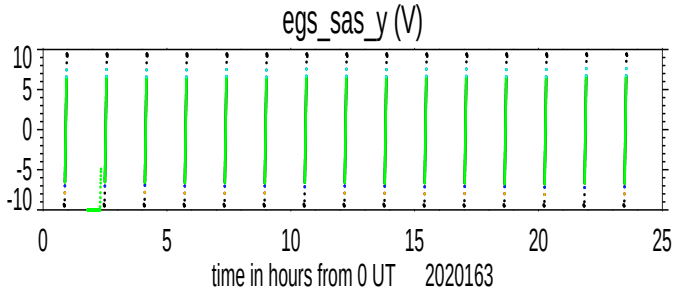

mu_4 (V)
4.00
3.95
3.90
3.85
mu_gci_fpga_temp (C)
26
24
22
20
mu_15pos (V)
15.20
15.15
15.10
15.05
15.00
14.95
14.90
mu_15neg (V)
-14.90
-14.95
-15.00
mu_15_conv_temp (C)
26
24
22
20
mu_1553_trans_temp (C)
24
22
20
18
mu_cntl_fpga_temp (C)
24
22
20
18
mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
mu_cpu_temp (C)
24
22
20
18
mu_gci_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020163

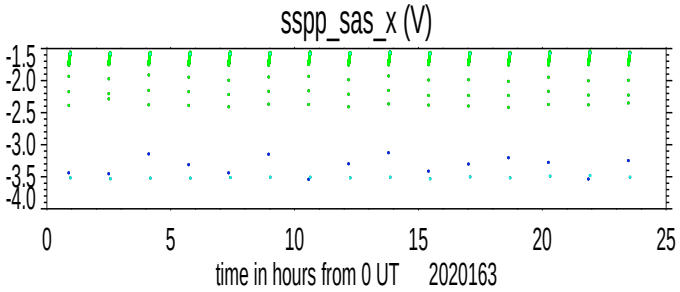

mu_5_conv_temp (C)
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020163

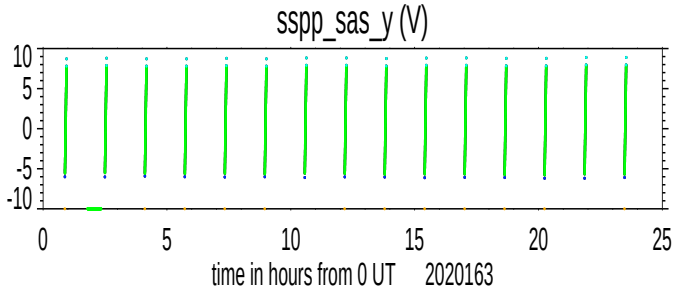

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020163

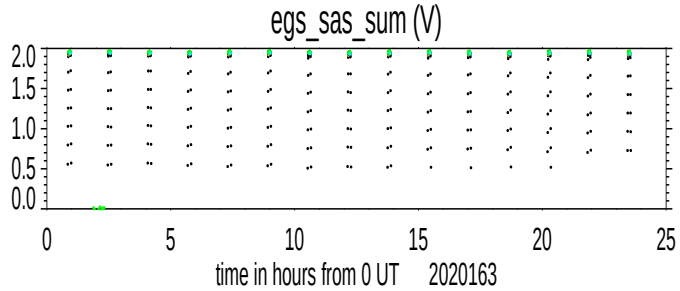

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020163

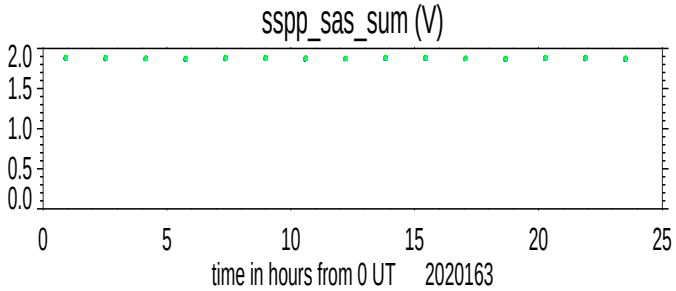

egs_sas_x (V)
time in hours from 0 UT 2020163

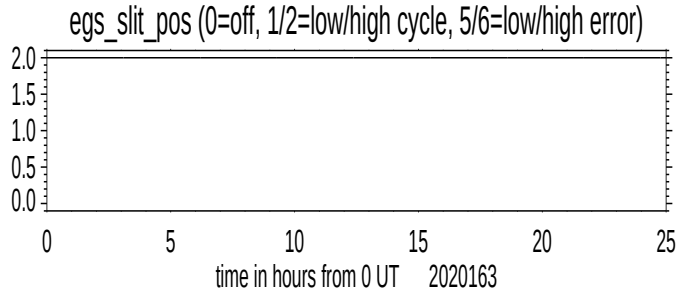

egs_sas_y (V)
time in hours from 0 UT 2020163

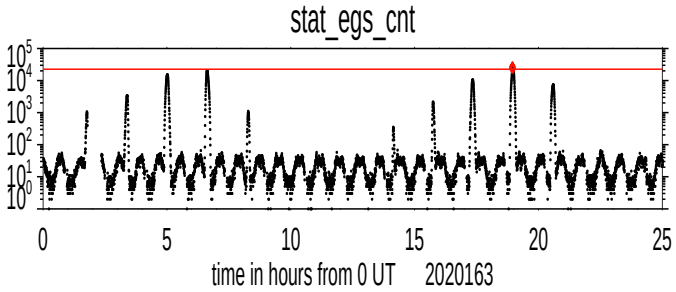

sspp_sas_x (V)
time in hours from 0 UT 2020163

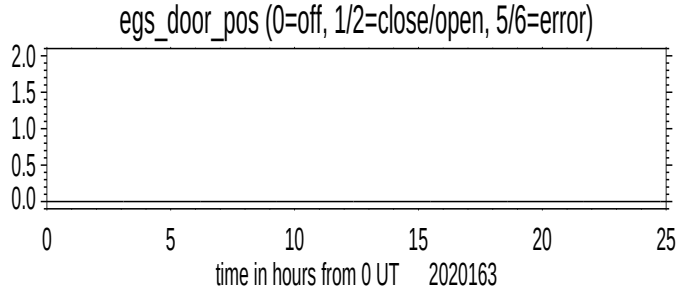

sspp_sas_y (V)
time in hours from 0 UT 2020163

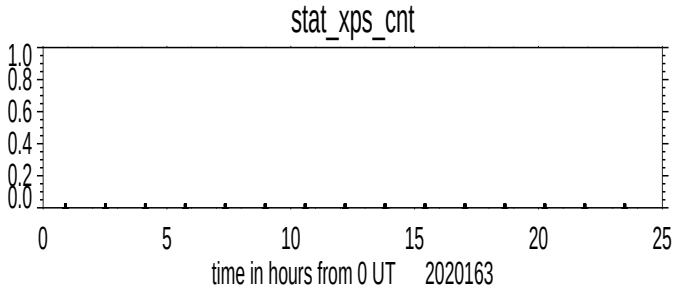

egs_sas_sum (V)
time in hours from 0 UT 2020163

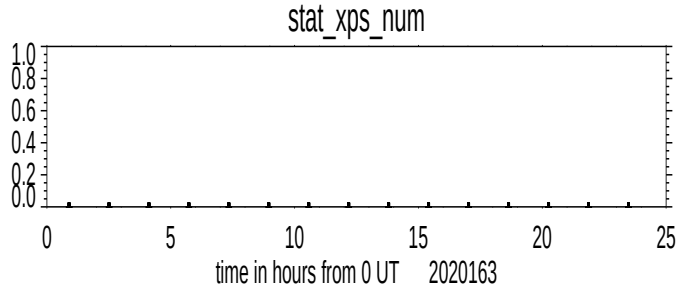

sspp_sas_sum (V)
time in hours from 0 UT 2020163

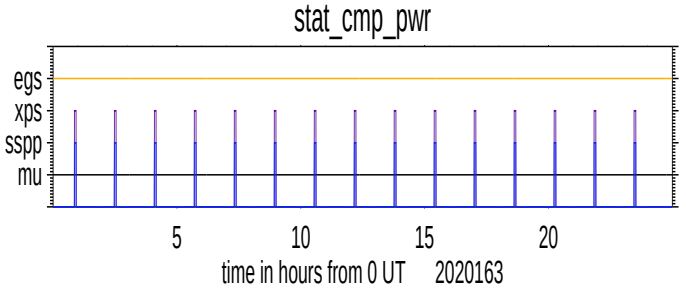

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2020163


stat_egs_cnt
time in hours from 0 UT 2020163

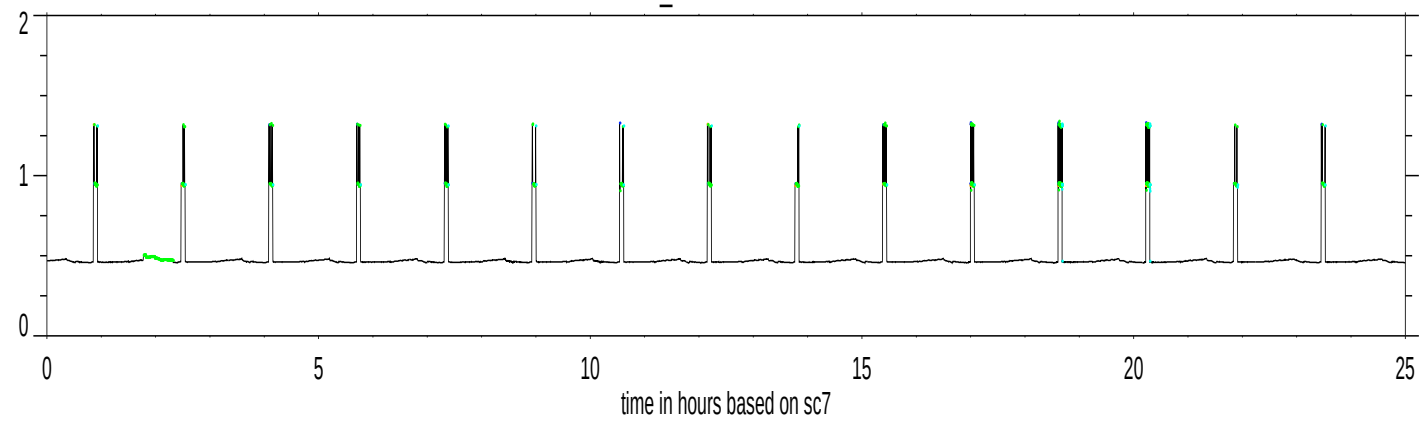

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2020163


stat_xps_cnt
time in hours from 0 UT 2020163

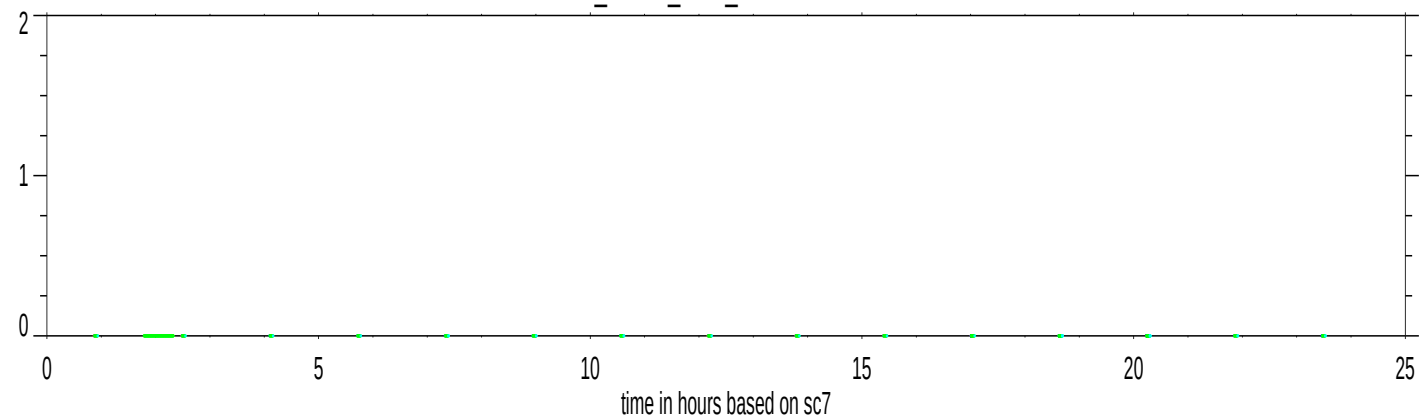

stat_xps_num
time in hours from 0 UT 2020163


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2020163

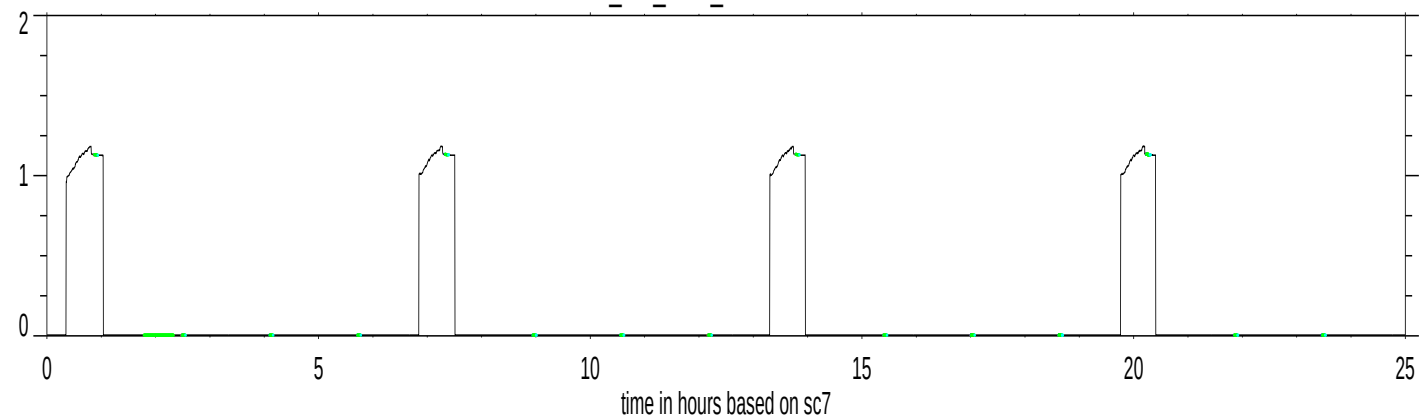
SEE_CUR 2020163



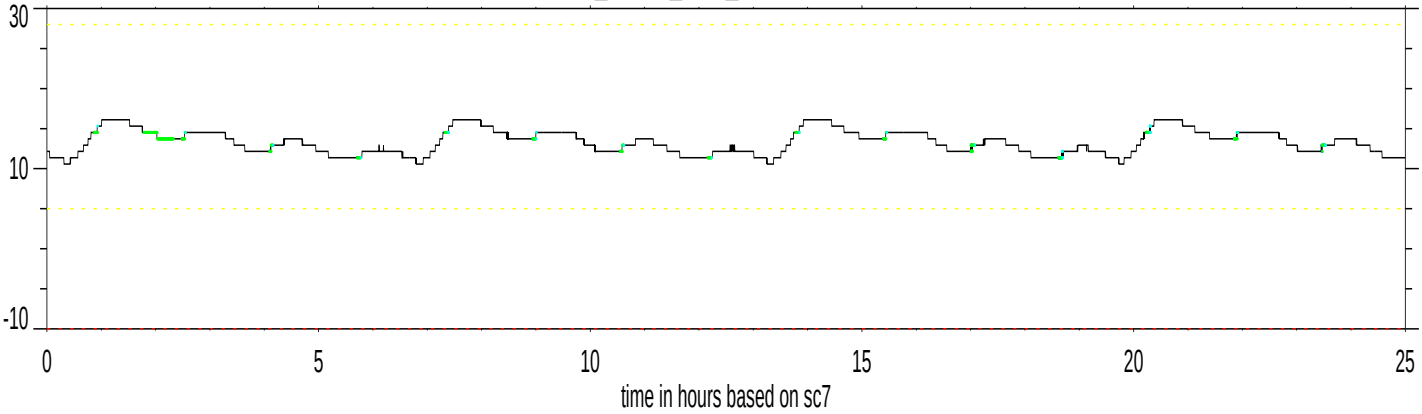
SEE_SURV_HTR_CUR 2020163



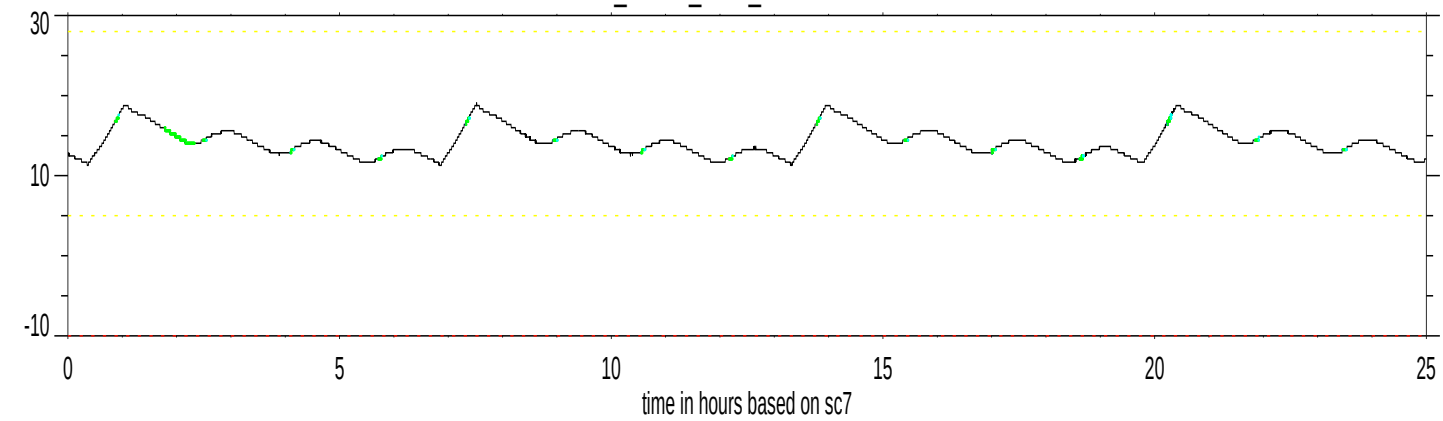
SEE_OP_HTR_CUR 2020163



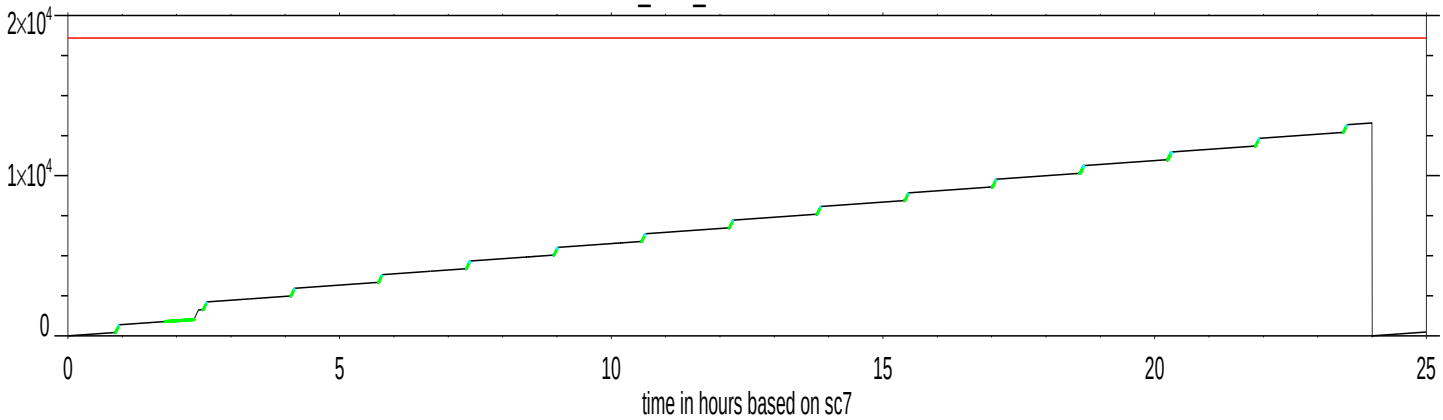
SSPP_BHND_XPS_TEMP 2020163



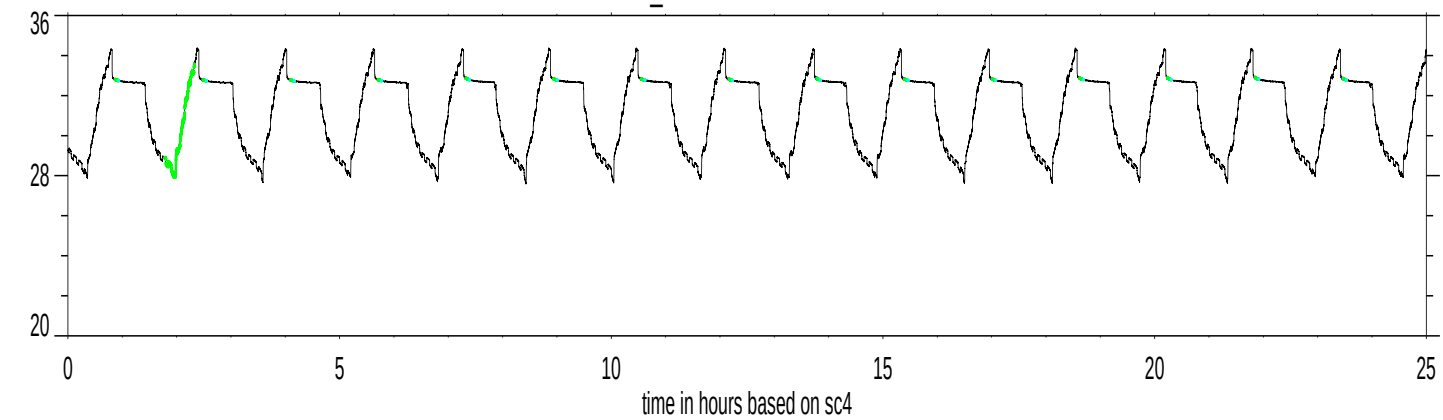
SSPP_BHND_MTR_TEMP 2020163



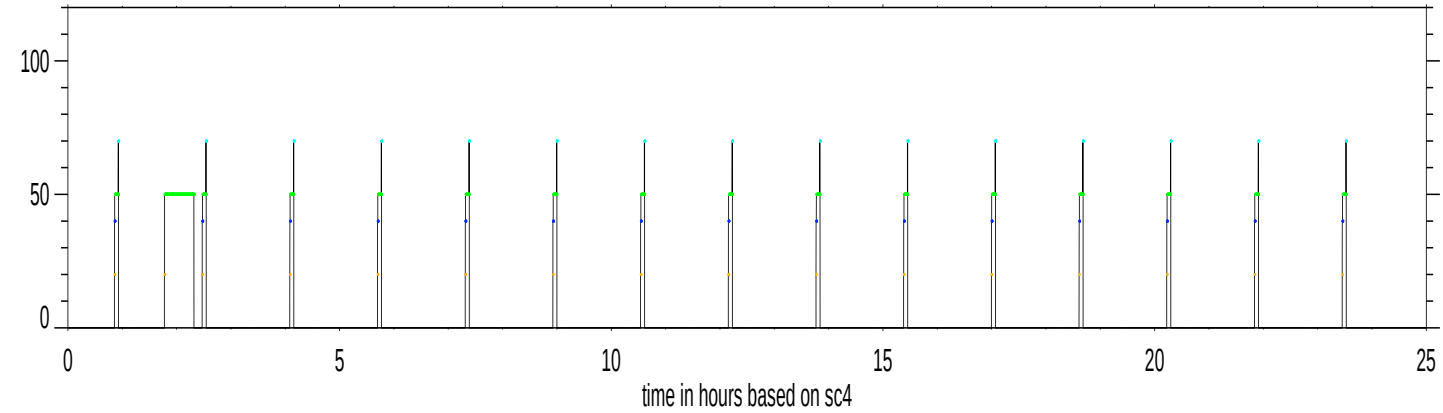
SEE_PKT_COUNT 2020163

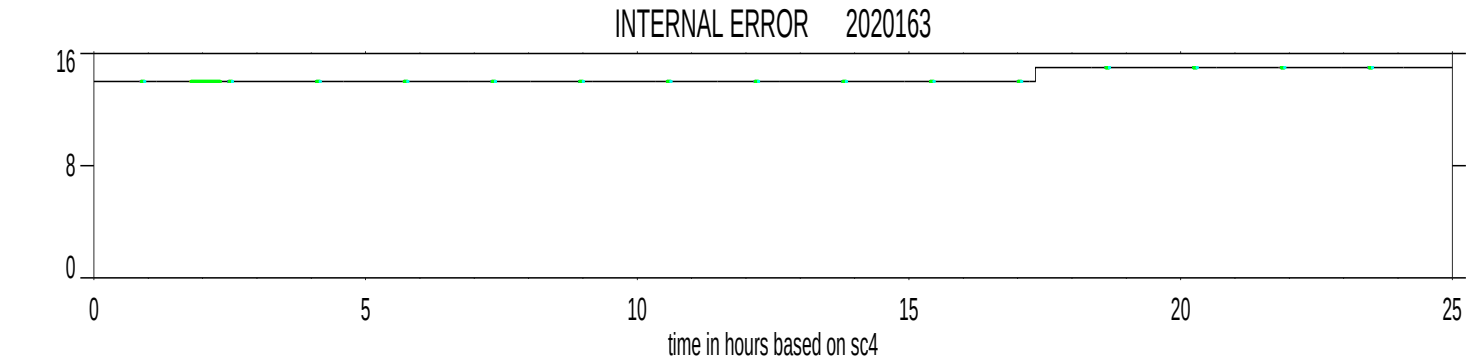


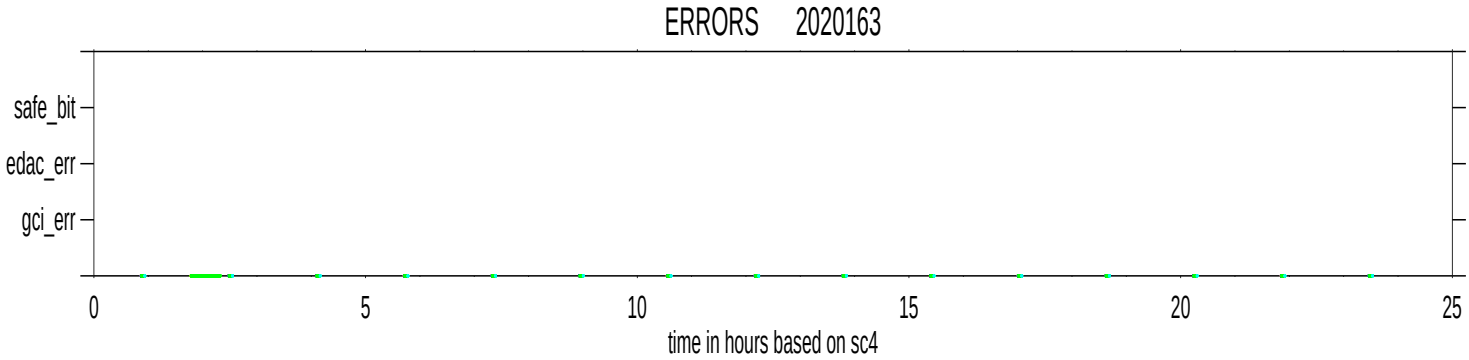
BUS_VOLTAGE 2020163

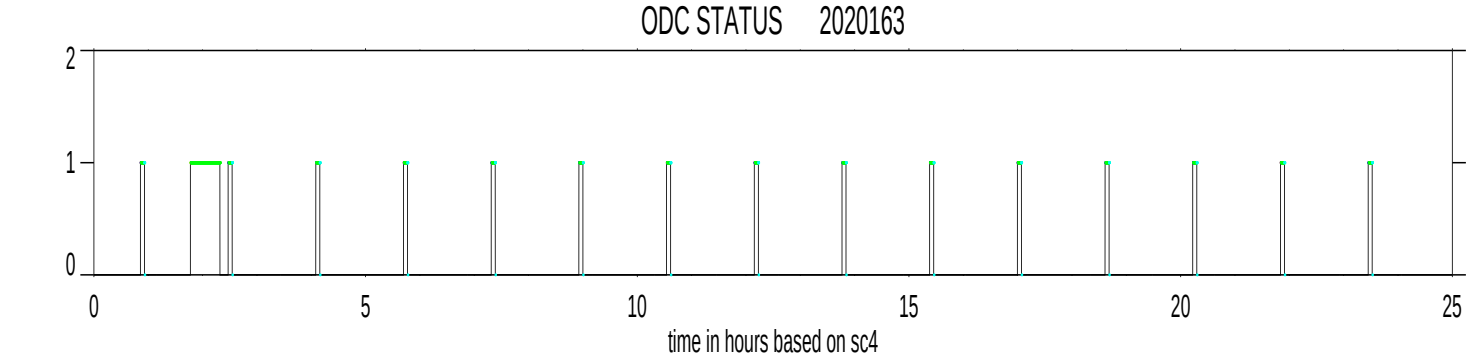


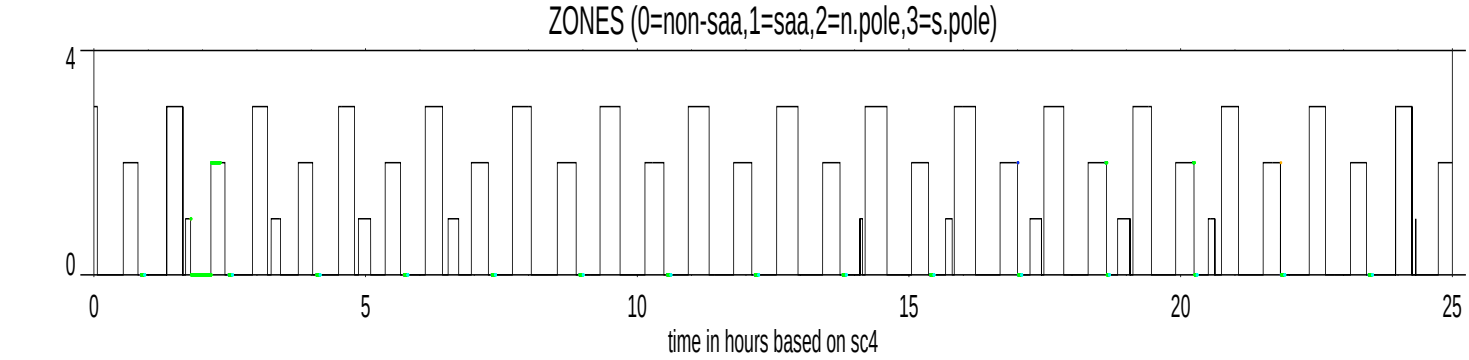
SEE_MU Operational Mode 2020163

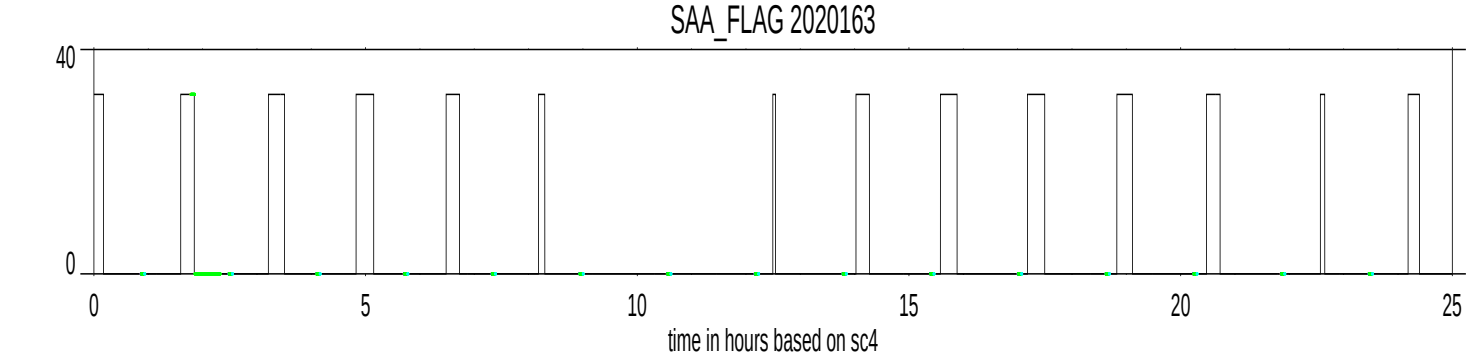


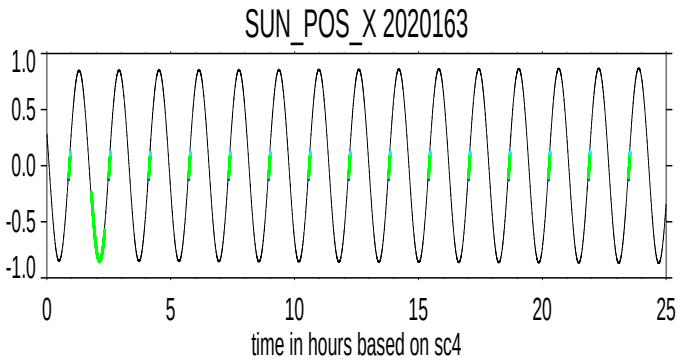

INTERNAL ERROR 2020163
16
8
0
0
5
10
15
20
25
time in hours based on sc4

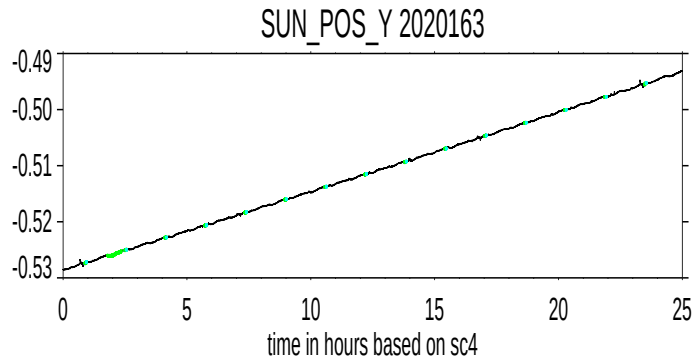

ERRORS 2020163
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

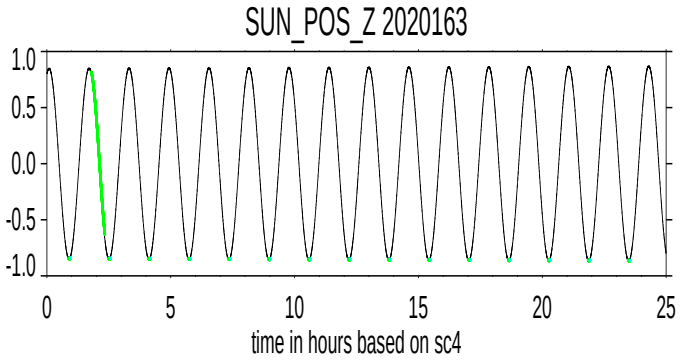

ODC STATUS 2020163
2
1
0
0
5
10
15
20
25
time in hours based on sc4

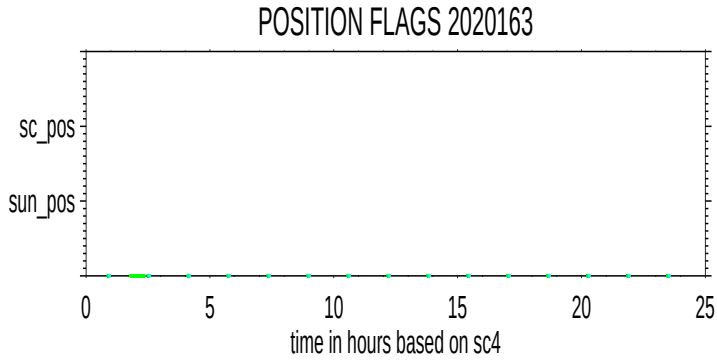

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

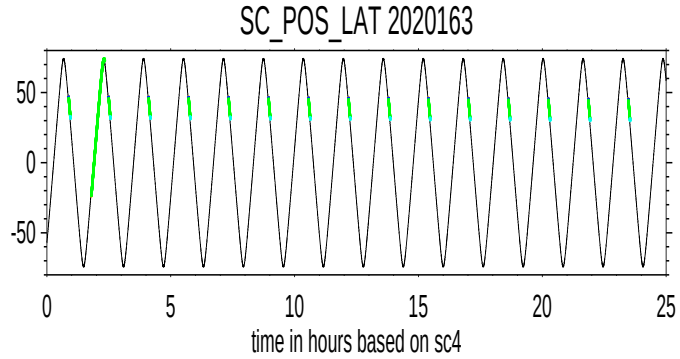

SAA_FLAG 2020163
40
0
0
5
10
15
20
25
time in hours based on sc4

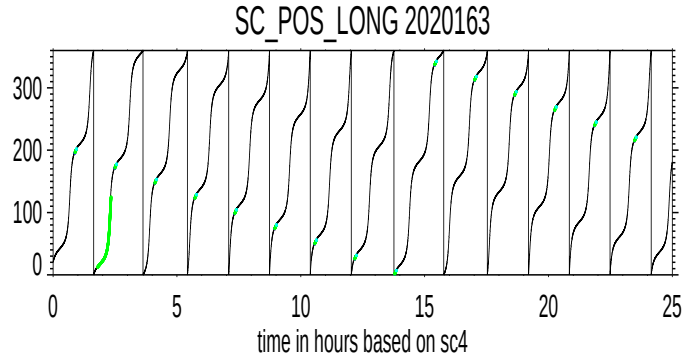

SUN_POS_X 2020163
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

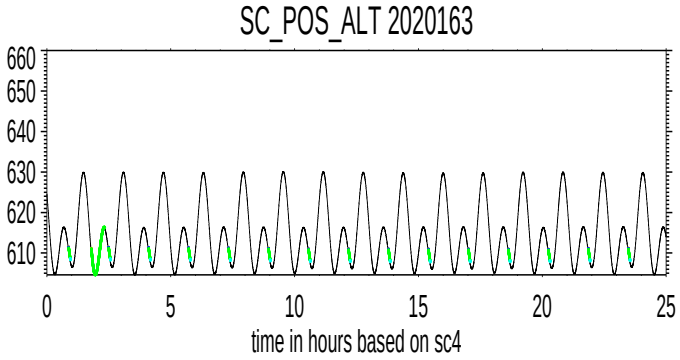

SUN_POS_Y 2020163
-0.49
-0.50
-0.51
-0.52
-0.53
0
5
10
15
20
25
time in hours based on sc4

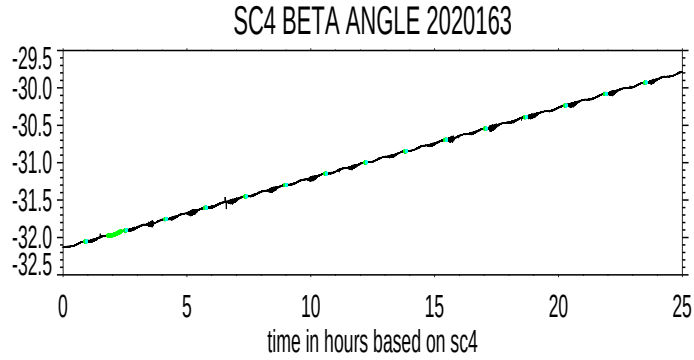

SUN_POS_Z 2020163
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2020163
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2020163
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2020163
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2020163
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2020163
-29.5
-30.0
-30.5
-31.0
-31.5
-32.0
-32.5
0
5
10
15
20
25
time in hours based on sc4