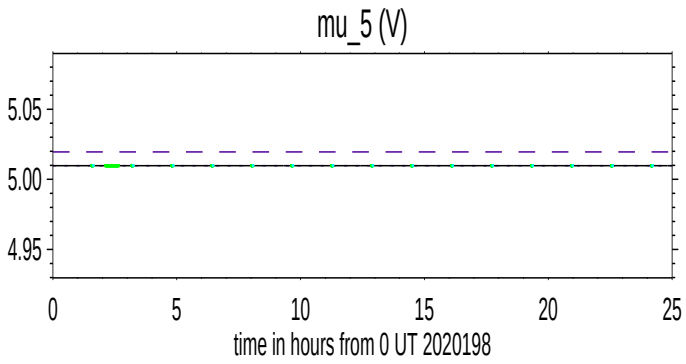
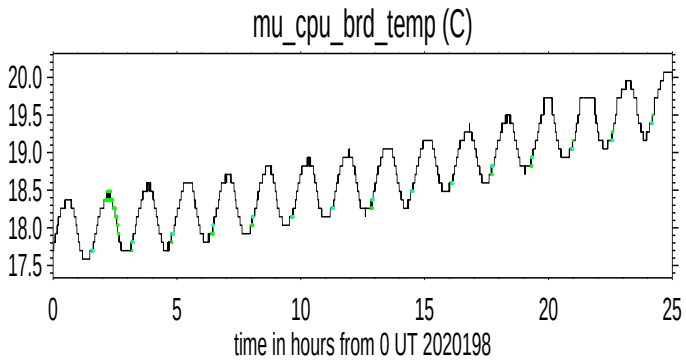
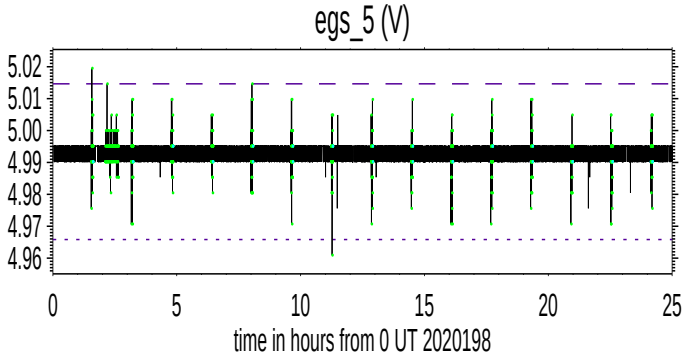
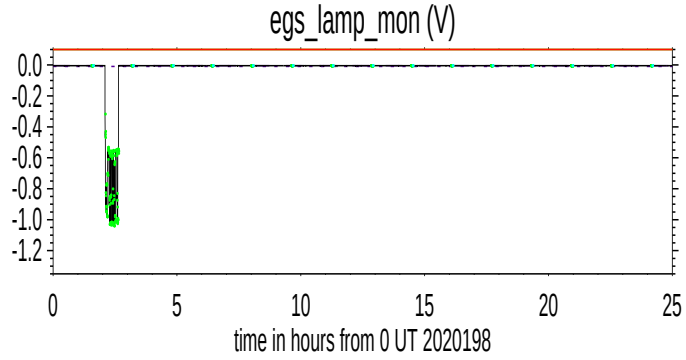
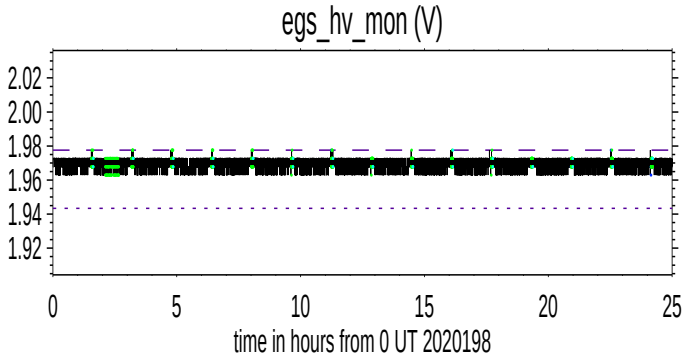
```
Information for      2020198
07:37:08.001: see_stat[1]: 6 internal error
13:01:26.001: see_stat[1]: 7 internal error
```

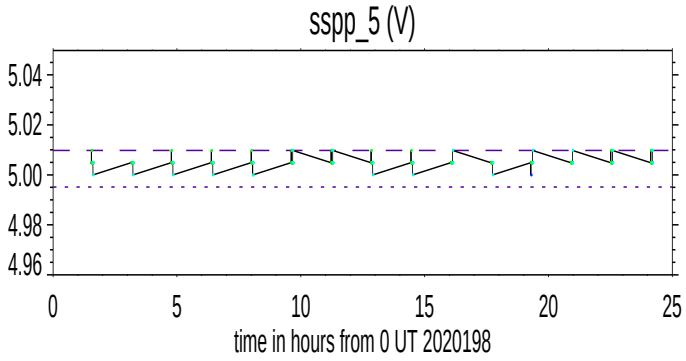

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2020198

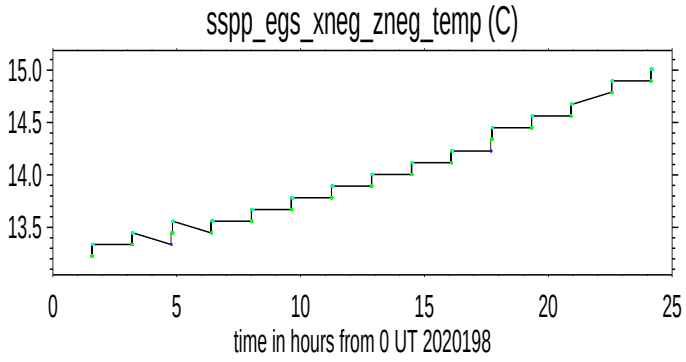

mu_cpu_brd_temp (C)
20.0
19.5
19.0
18.5
18.0
17.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

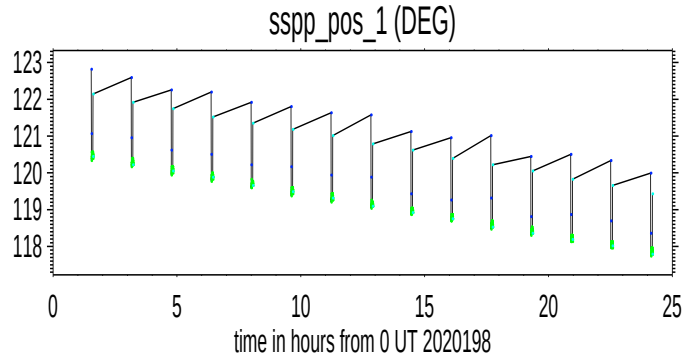

egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020198

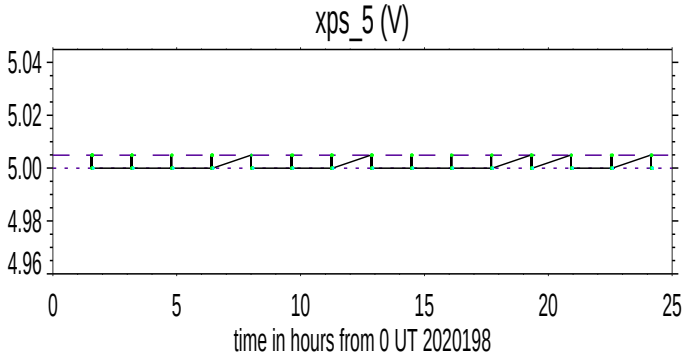

egs_lamp_mon (V)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
0
5
10
15
20
25
time in hours from 0 UT 2020198

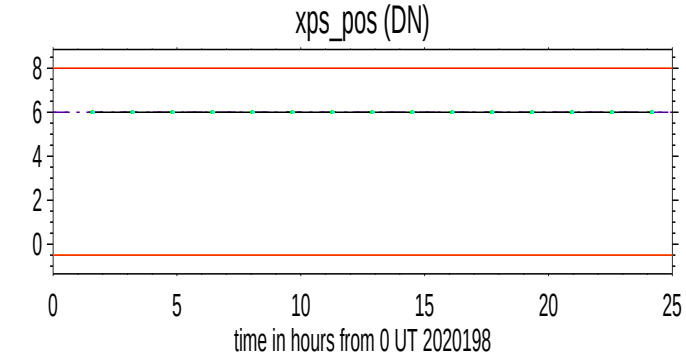

egs_hv_mon (V)
2.02
2.00
1.98
1.96
1.94
1.92
0
5
10
15
20
25
time in hours from 0 UT 2020198

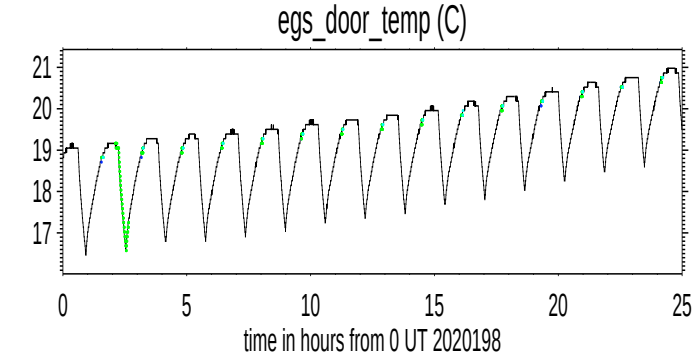

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020198

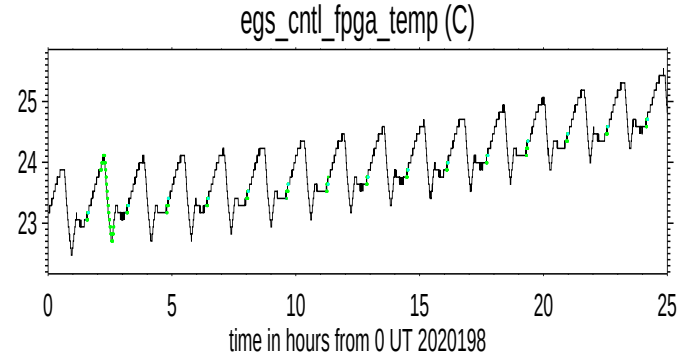

sspp_egs_xneg_zneg_temp (C)
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

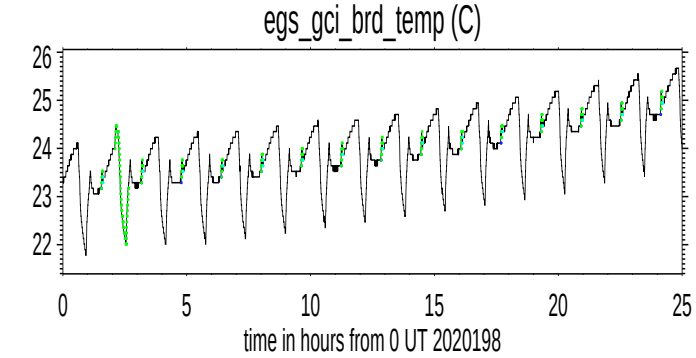

sspp_pos_1 (DEG)
123
122
121
120
119
118
0
5
10
15
20
25
time in hours from 0 UT 2020198

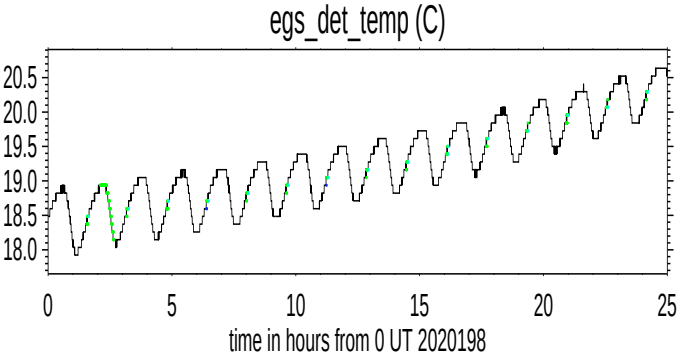

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020198

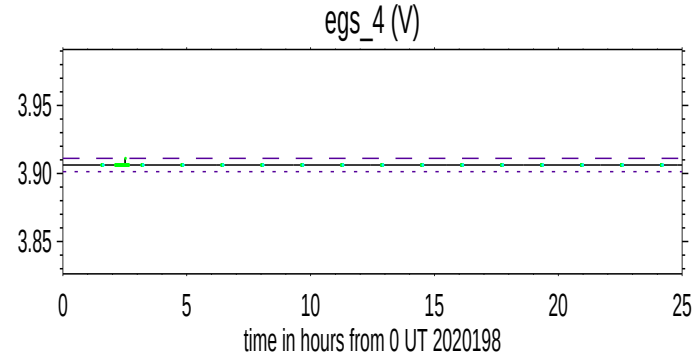

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2020198

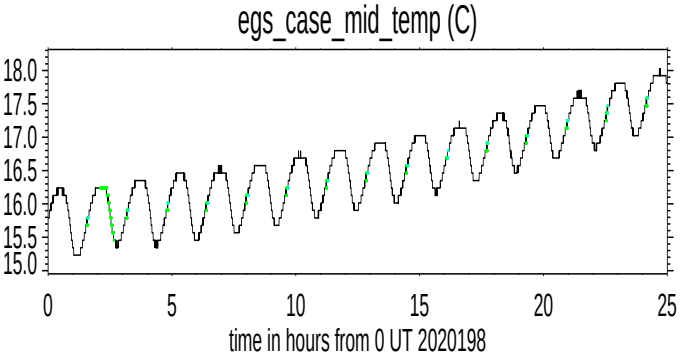

egs_door_temp (C)
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020198

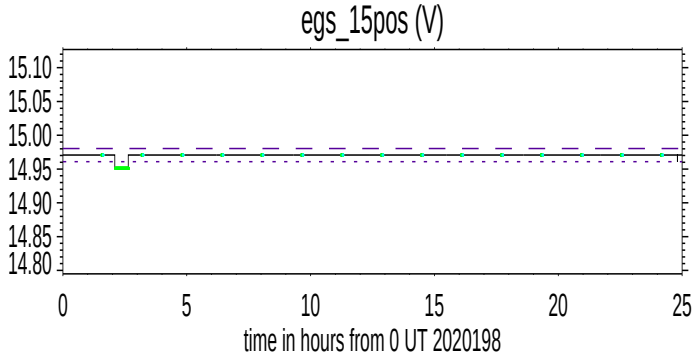

egs_cntl_fpga_temp (C)
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020198

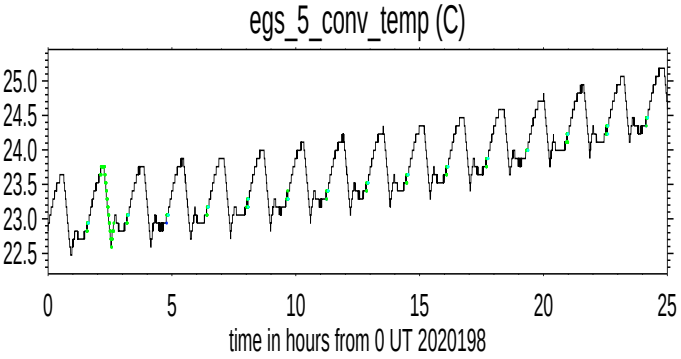

egs_gci_brd_temp (C)
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2020198

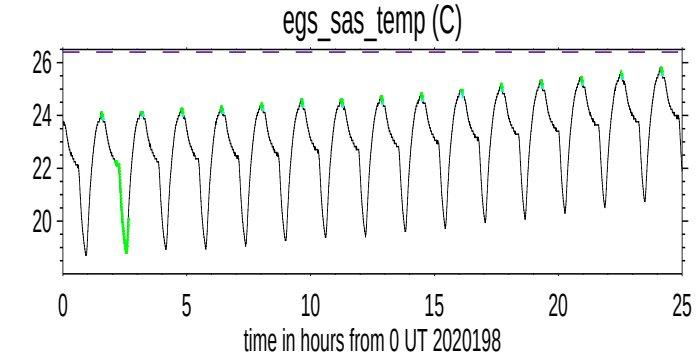

egs_det_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

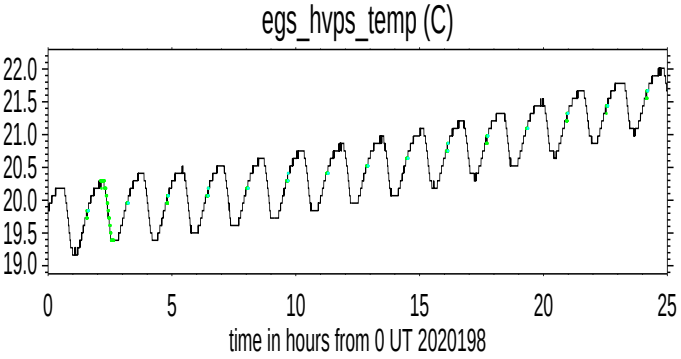

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020198

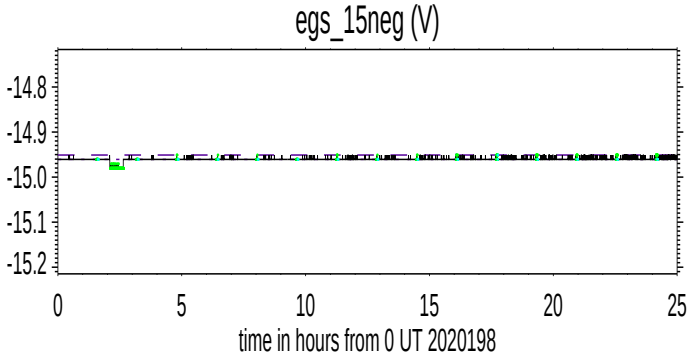

egs_case_mid_temp (C)
18.0
17.5
17.0
16.5
16.0
15.5
15.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

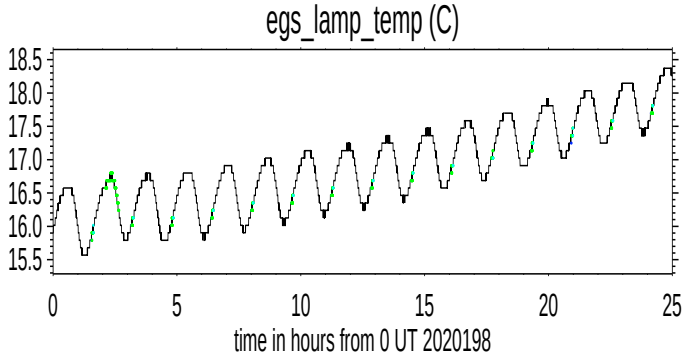

egs_15pos (V)
15.10
15.05
15.00
14.95
14.90
14.85
14.80
0
5
10
15
20
25
time in hours from 0 UT 2020198

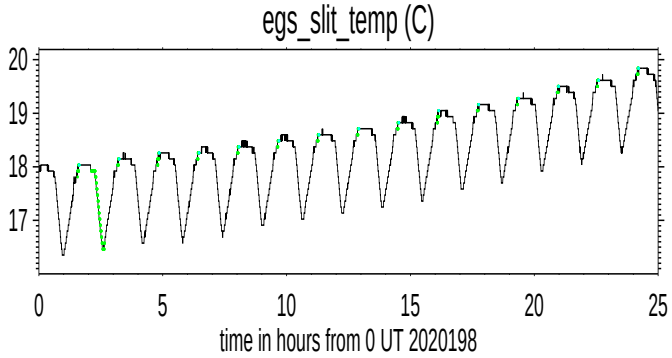

egs_5_conv_temp (C)
25.0
24.5
24.0
23.5
23.0
22.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

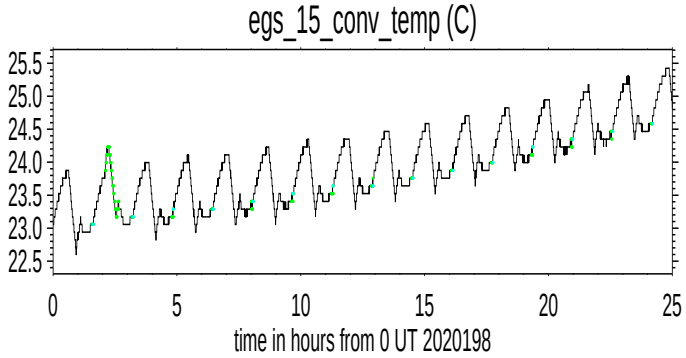

egs_sas_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020198

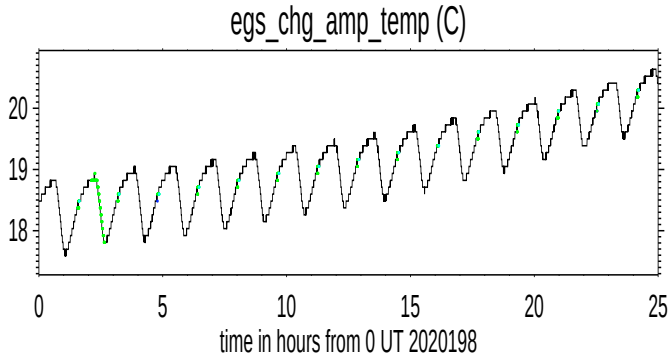

egs_hvps_temp (C)
22.0
21.5
21.0
20.5
20.0
19.5
19.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

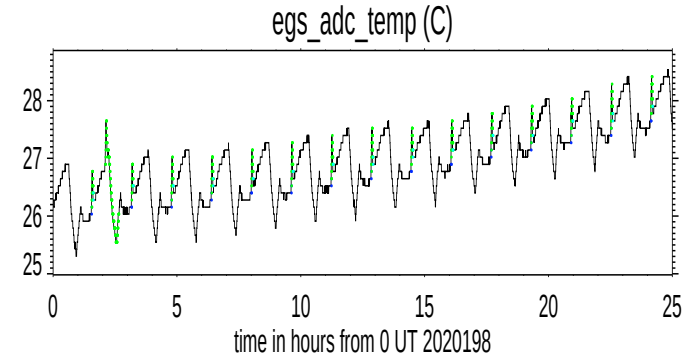

egs_15neg (V)
-14.8
-14.9
-15.0
-15.1
-15.2
0
5
10
15
20
25
time in hours from 0 UT 2020198

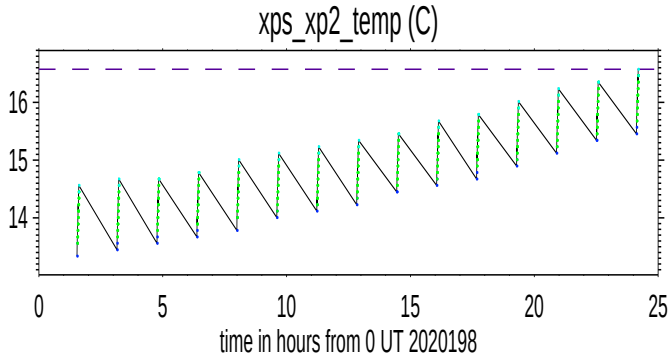

egs_lamp_temp (C)
18.5
18.0
17.5
17.0
16.5
16.0
15.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

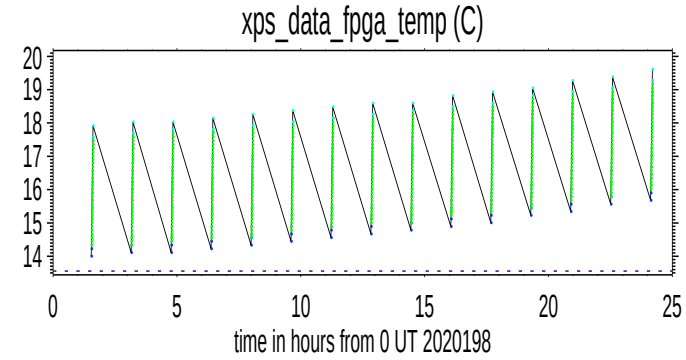

egs_slit_temp (C)
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020198

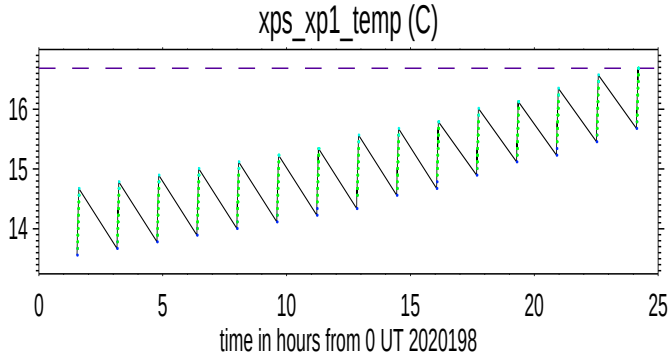

egs_15_conv_temp (C)
25.5
25.0
24.5
24.0
23.5
23.0
22.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

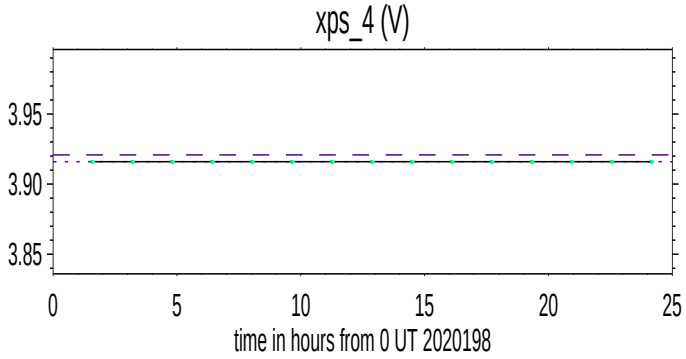

egs_chg_amp_temp (C)
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2020198

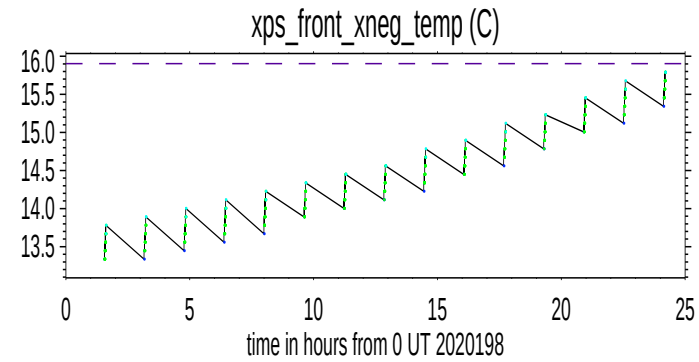

egs_adc_temp (C)
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2020198

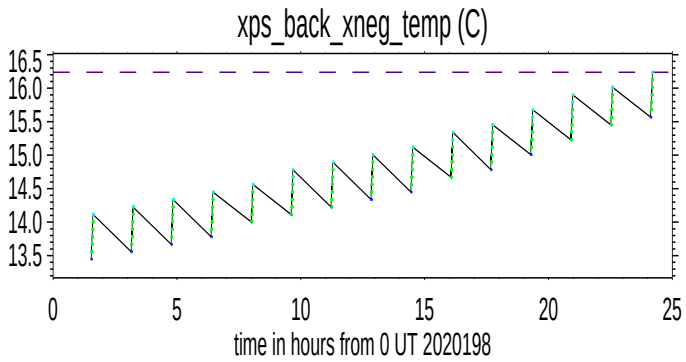

xps_xp2_temp (C)
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

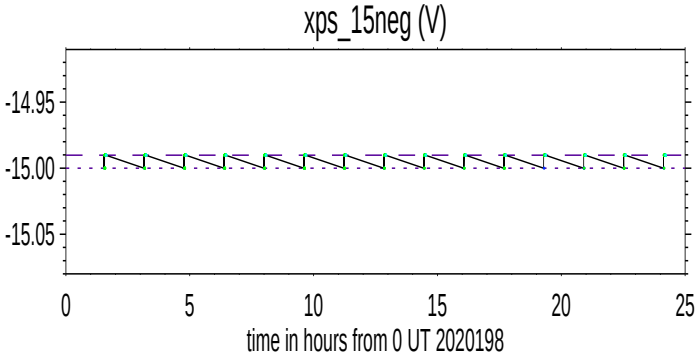

xps_data_fpga_temp (C)
20
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

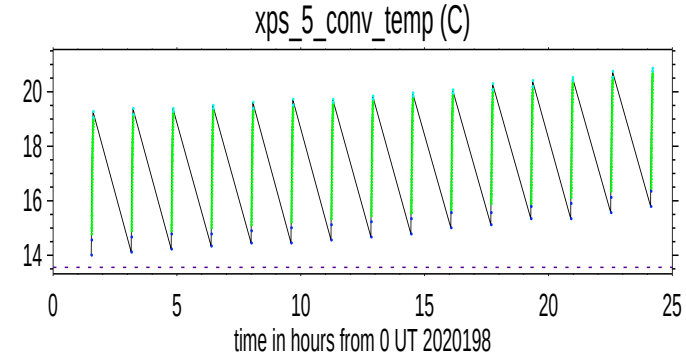

xps_xp1_temp (C)
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

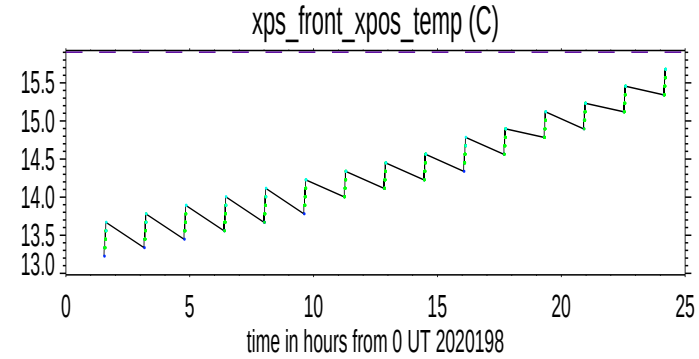

xps_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020198

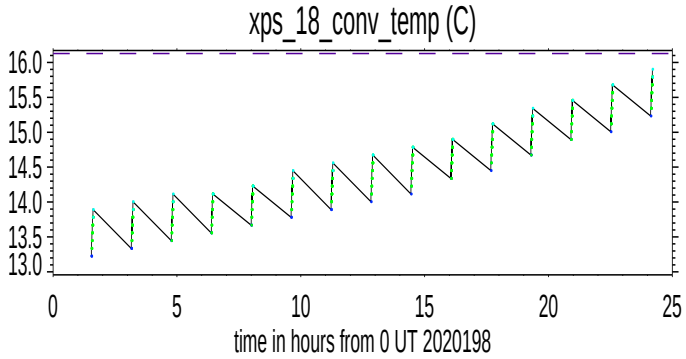

xps_front_xneg_temp (C)
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

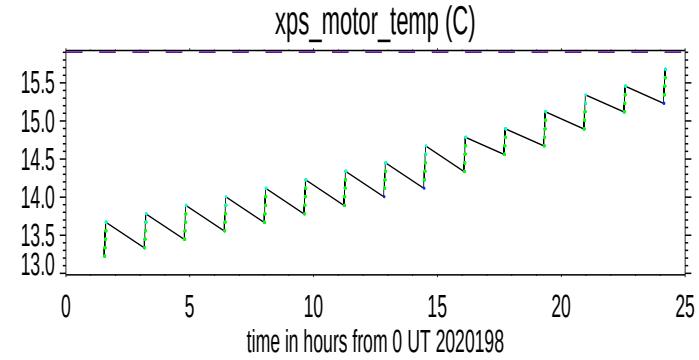

xps_back_xneg_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

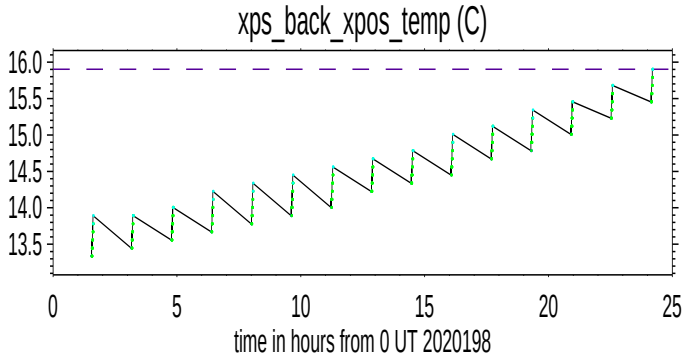

xps_15neg (V)
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2020198

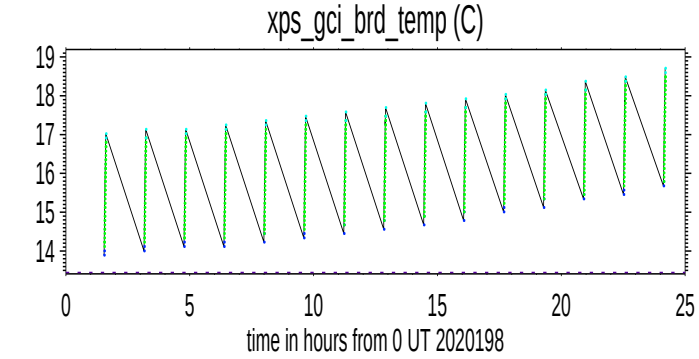

xps_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

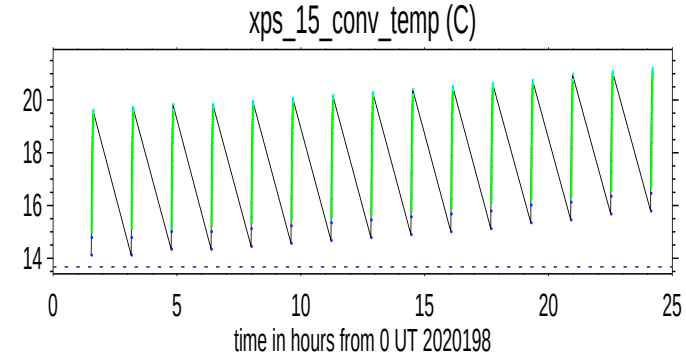

xps_front_xpos_temp (C)
15.5
15.0
14.5
14.0
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

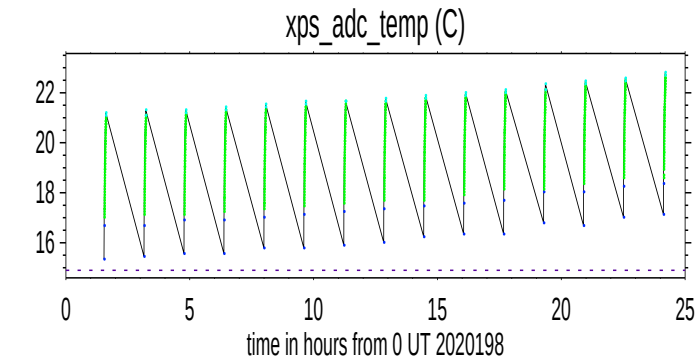

xps_18_conv_temp (C)
16.0
15.5
15.0
14.5
14.0
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

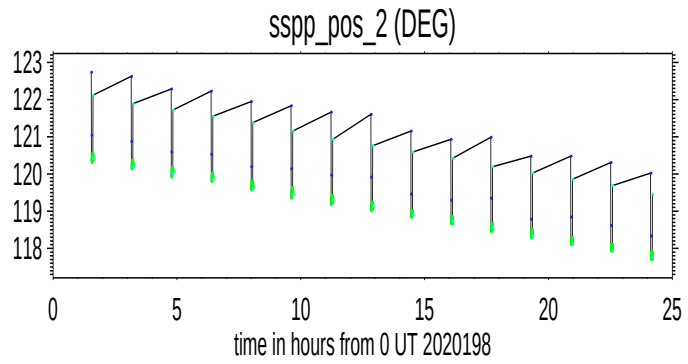

xps_motor_temp (C)
15.5
15.0
14.5
14.0
13.5
13.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

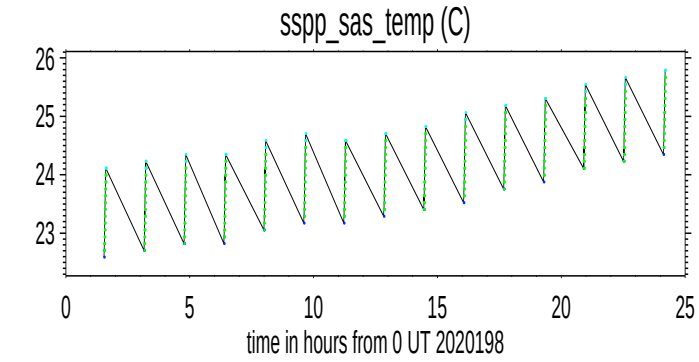

xps_back_xpos_temp (C)
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

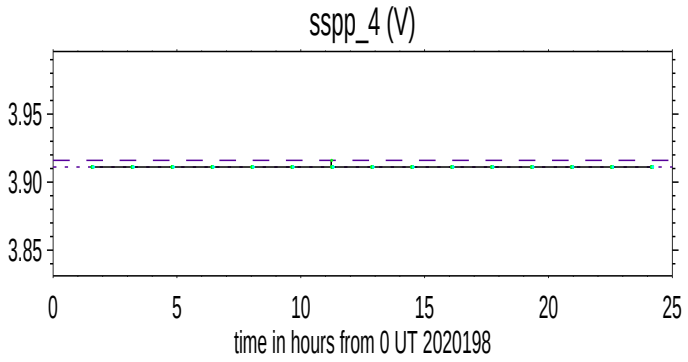

xps_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

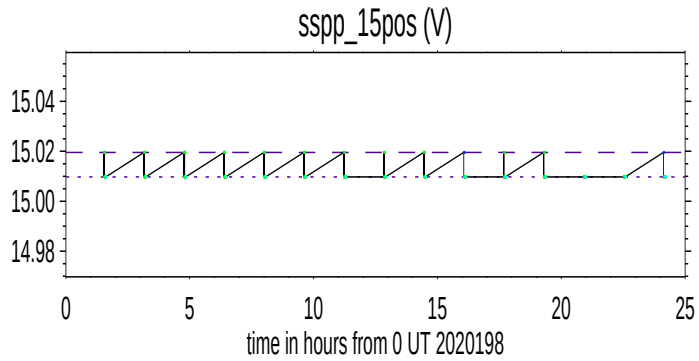

xps_15_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

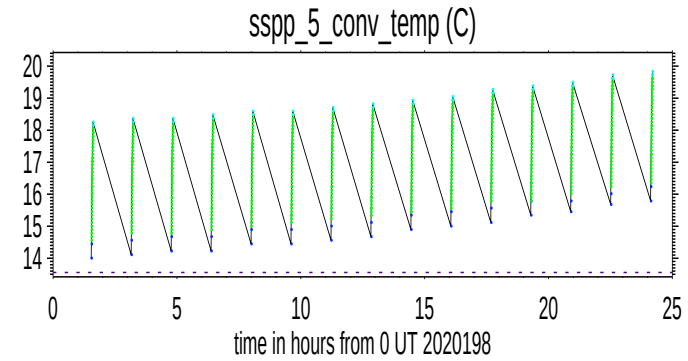

xps_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020198

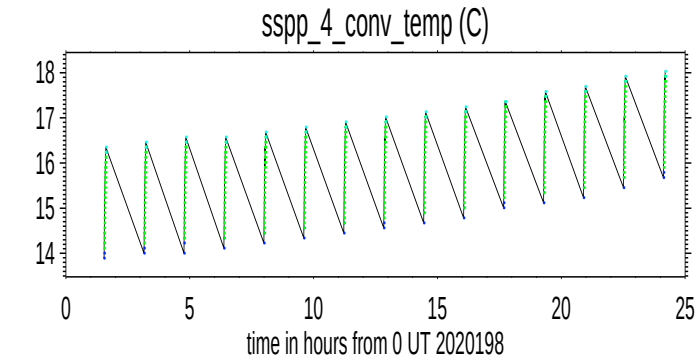

sspp_pos_2 (DEG)
123
122
121
120
119
118
0
5
10
15
20
25
time in hours from 0 UT 2020198

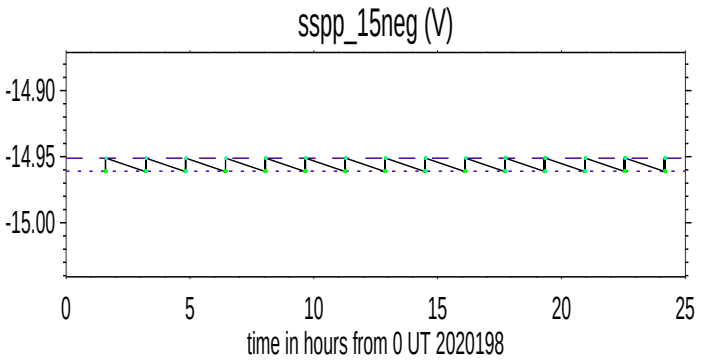

sspp_sas_temp (C)
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020198

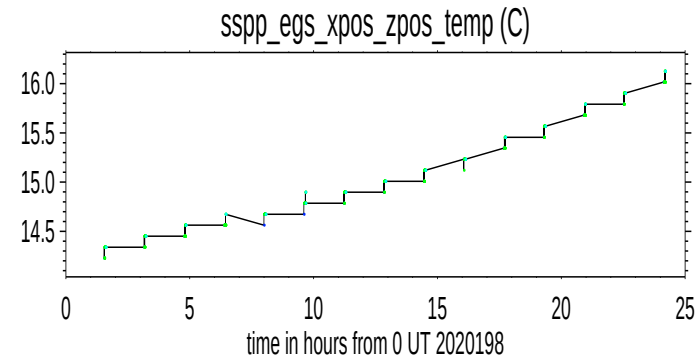

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020198

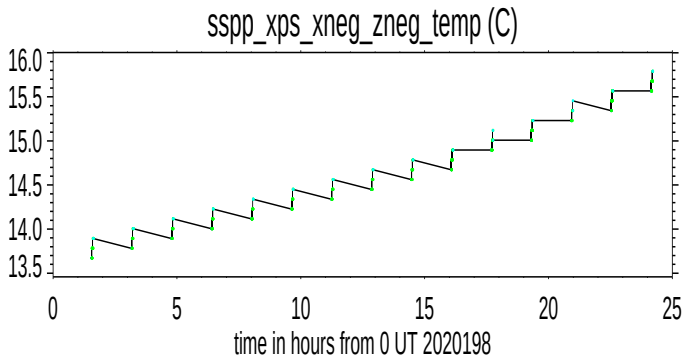

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2020198

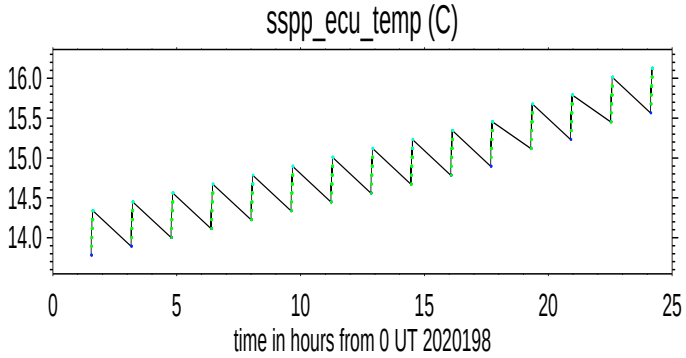

sspp_5_conv_temp (C)
20
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

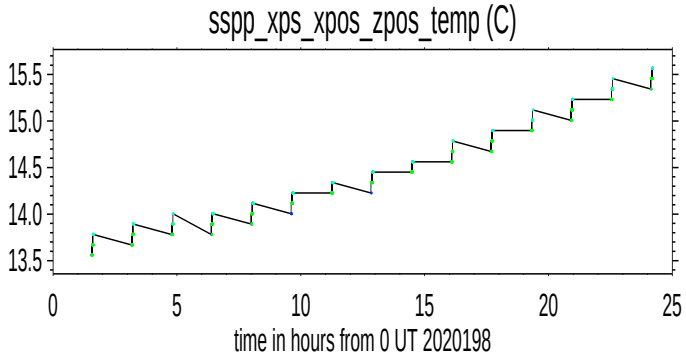

sspp_4_conv_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

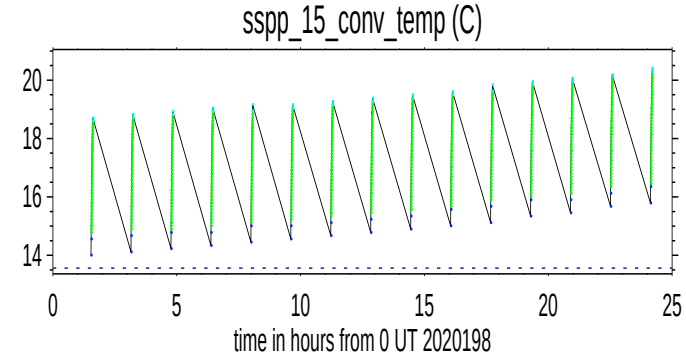

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020198

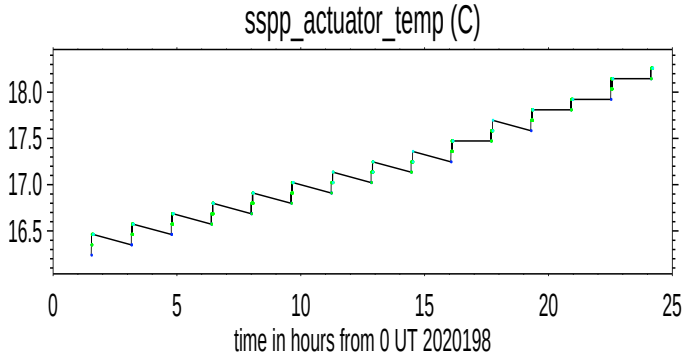

sspp_egs_xpos_zpos_temp (C)
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

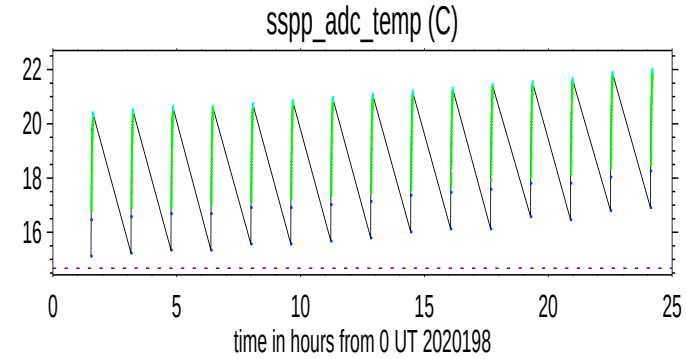

sspp_xps_xneg_zneg_temp (C)
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

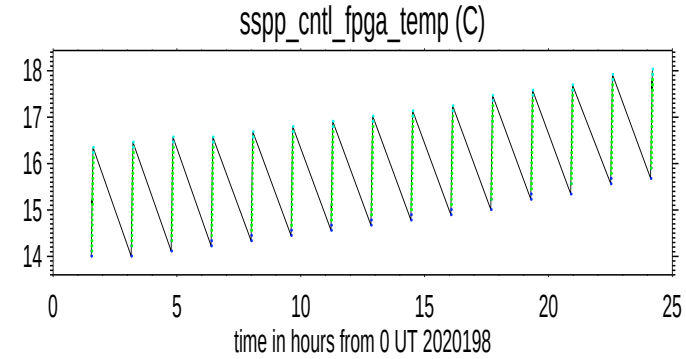

sspp_ecu_temp (C)
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

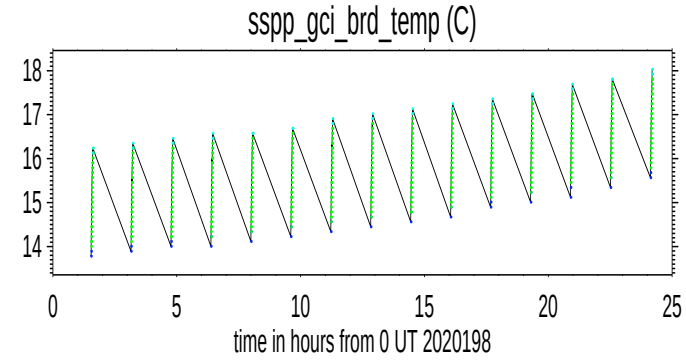

sspp_xps_xpos_zpos_temp (C)
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

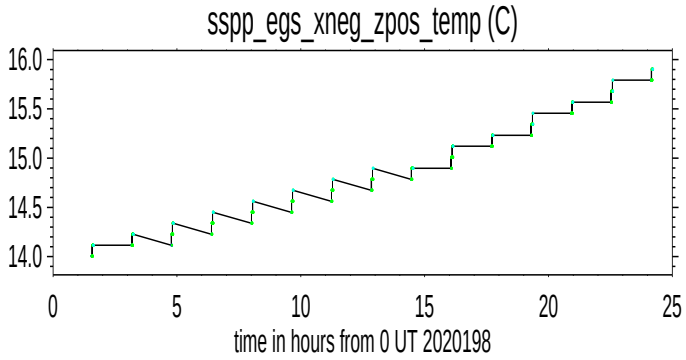

sspp_15_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

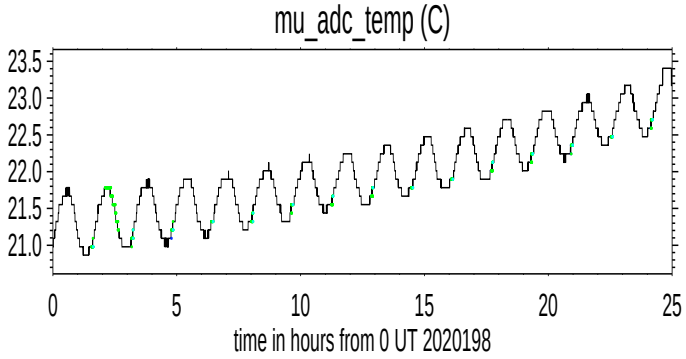

sspp_actuator_temp (C)
18.0
17.5
17.0
16.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

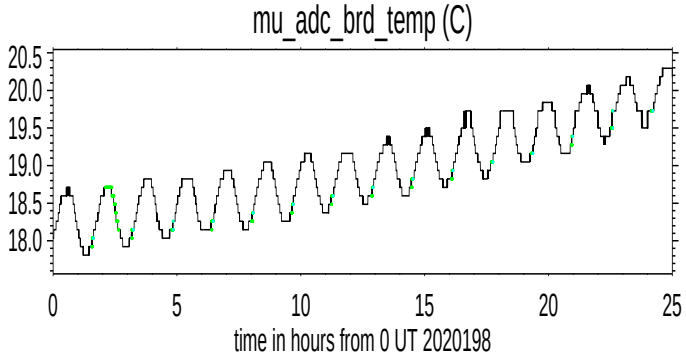

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020198

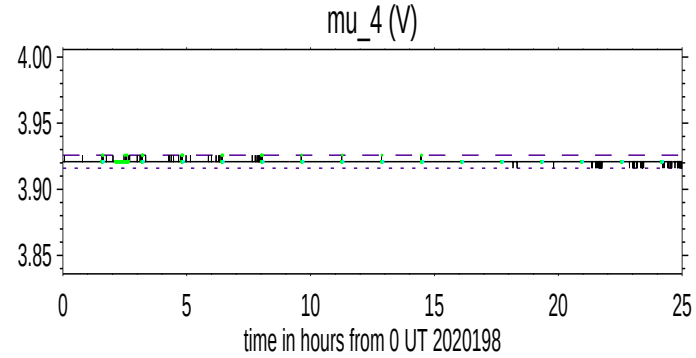

sspp_cntl_fpga_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

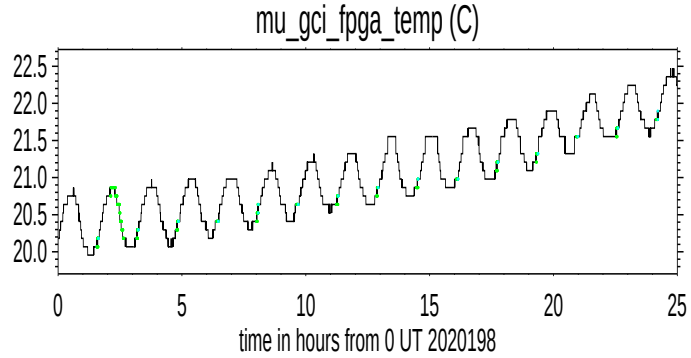

sspp_gci_brd_temp (C)
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020198

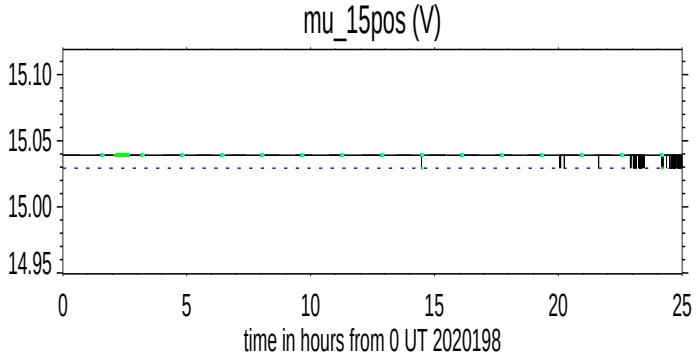

sspp_egs_xneg_zpos_temp (C)
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

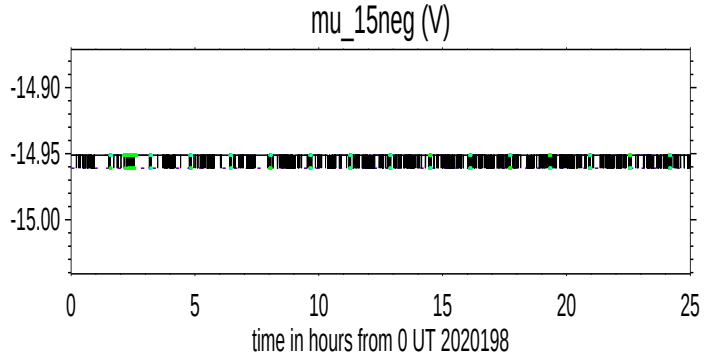

mu_adc_temp (C)
23.5
23.0
22.5
22.0
21.5
21.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

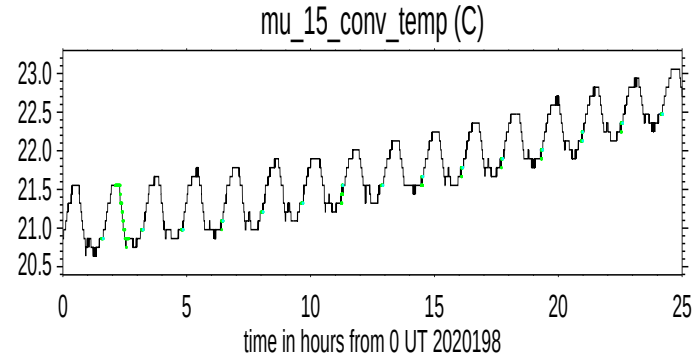

mu_adc_brd_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

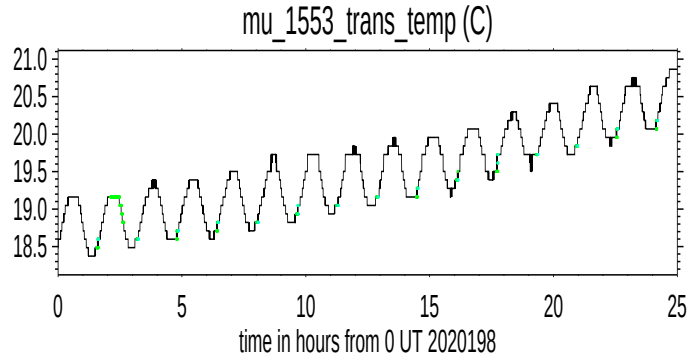

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020198

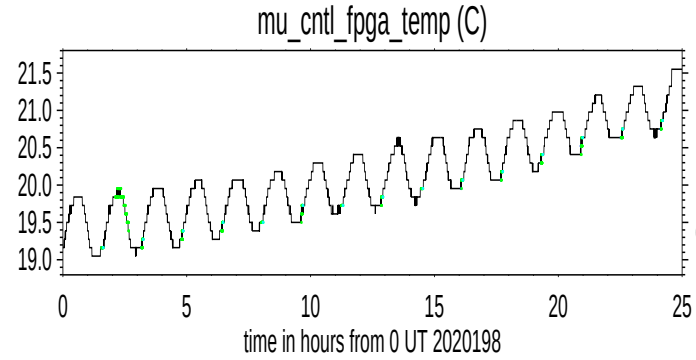

mu_gci_fpga_temp (C)
22.5
22.0
21.5
21.0
20.5
20.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

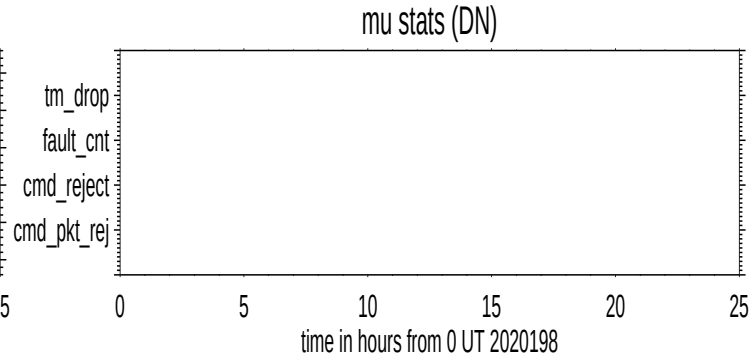

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2020198

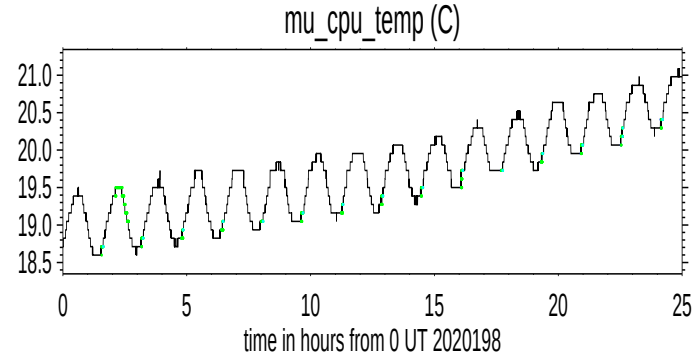

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020198

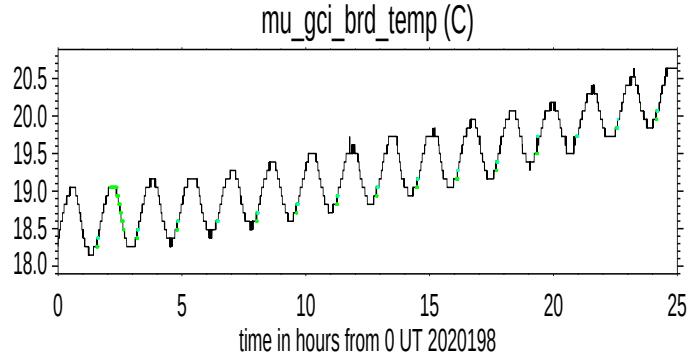

mu_15_conv_temp (C)
23.0
22.5
22.0
21.5
21.0
20.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

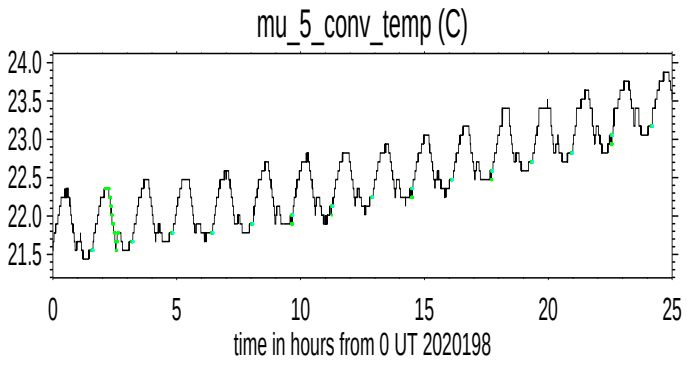

mu_1553_trans_temp (C)
21.0
20.5
20.0
19.5
19.0
18.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

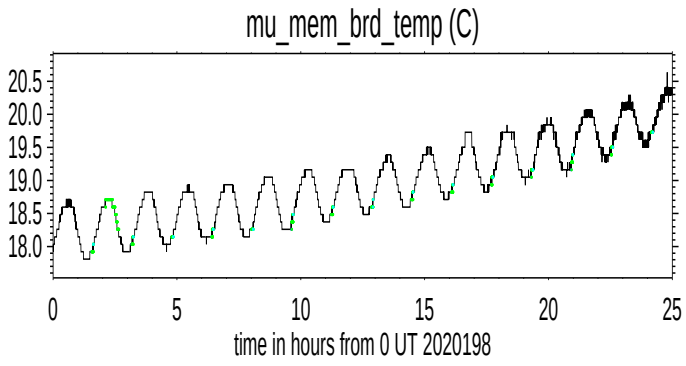

mu_cntl_fpga_temp (C)
21.5
21.0
20.5
20.0
19.5
19.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

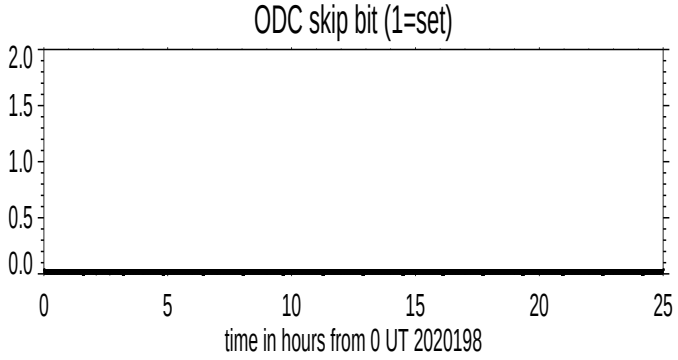

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2020198

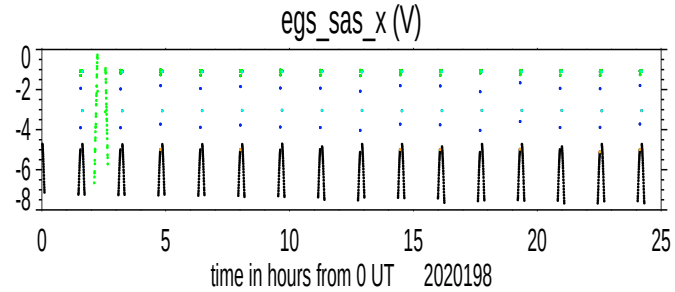

mu_cpu_temp (C)
21.0
20.5
20.0
19.5
19.0
18.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

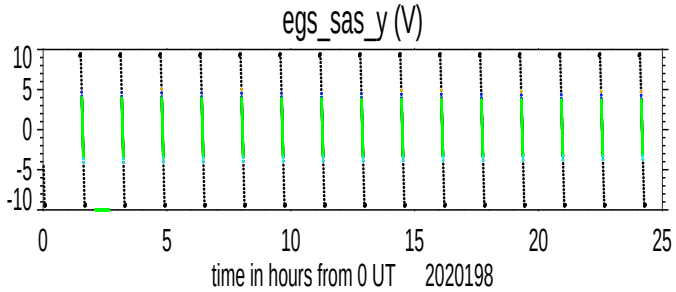

mu_gci_brd_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

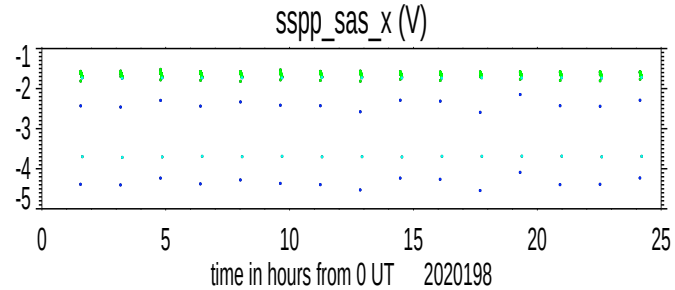

mu_5_conv_temp (C)
24.0
23.5
23.0
22.5
22.0
21.5
0
5
10
15
20
25
time in hours from 0 UT 2020198

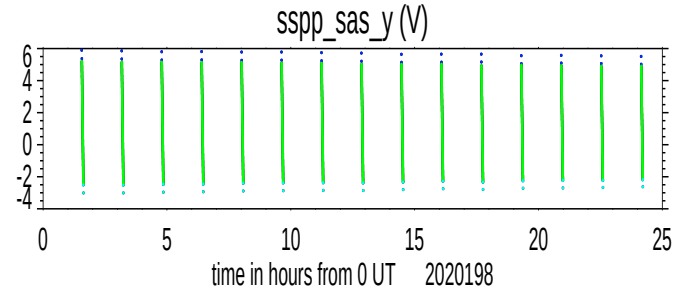

mu_mem_brd_temp (C)
20.5
20.0
19.5
19.0
18.5
18.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

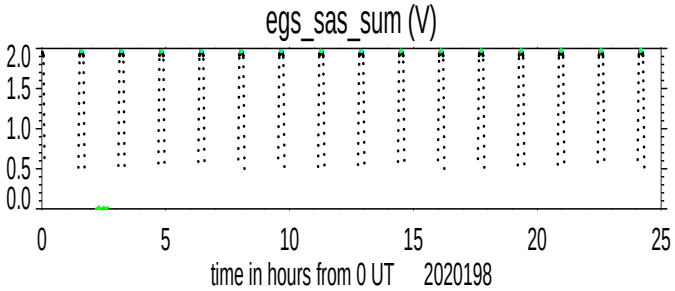

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020198

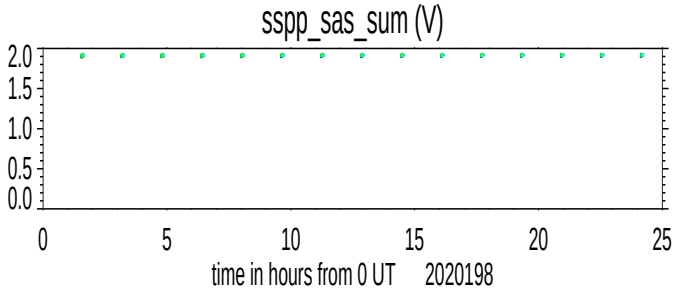

egs_sas_x (V)
0
-2
-4
-6
-8
0 5 10 15 20 25
time in hours from 0 UT 2020198

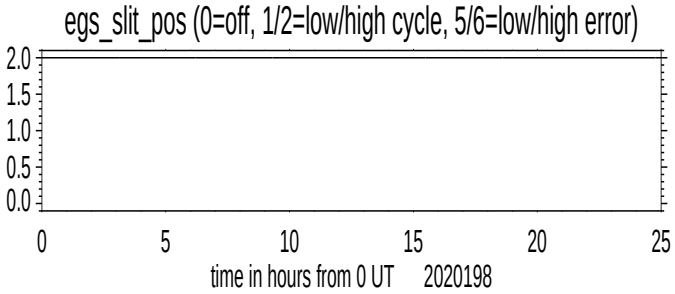

egs_sas_y (V)
10
5
0
-5
-10
0 5 10 15 20 25
time in hours from 0 UT 2020198

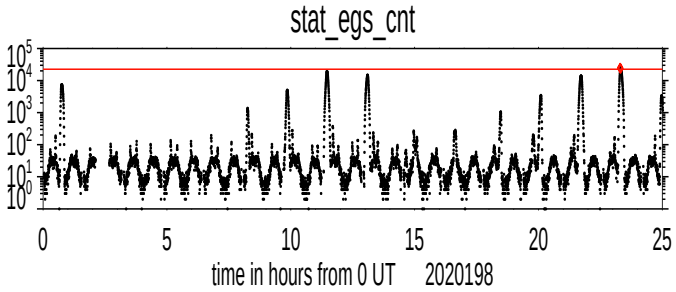

sspp_sas_x (V)
-1
-2
-3
-4
-5
0 5 10 15 20 25
time in hours from 0 UT 2020198

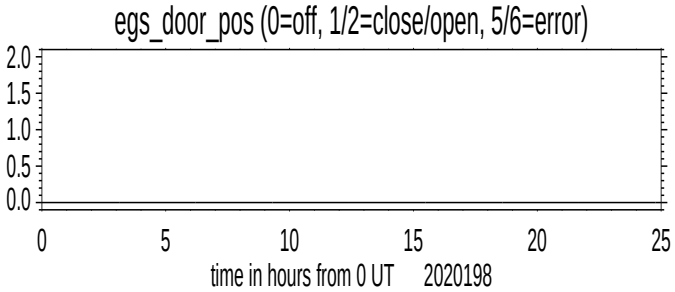

sspp_sas_y (V)
6
4
2
0
-2
-4
0 5 10 15 20 25
time in hours from 0 UT 2020198

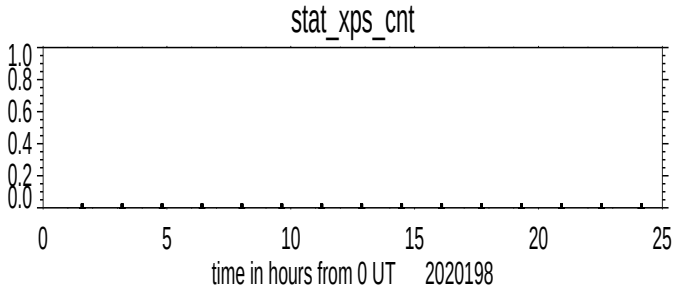

egs_sas_sum (V)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020198

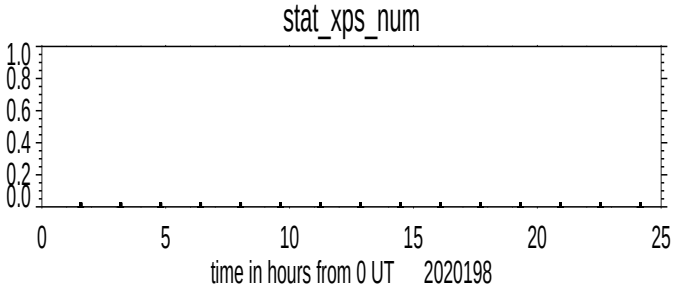

sspp_sas_sum (V)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020198

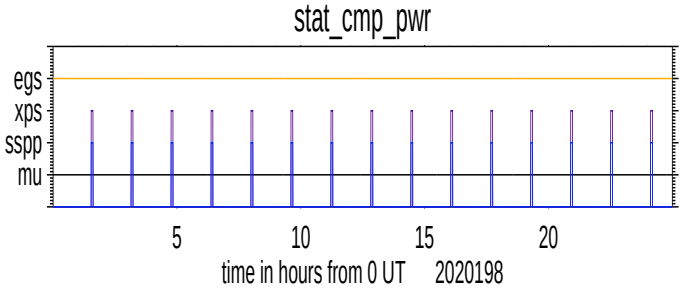

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020198


stat_egs_cnt
10^5
10^4
10^3
10^2
10^1
10^0
0 5 10 15 20 25
time in hours from 0 UT 2020198

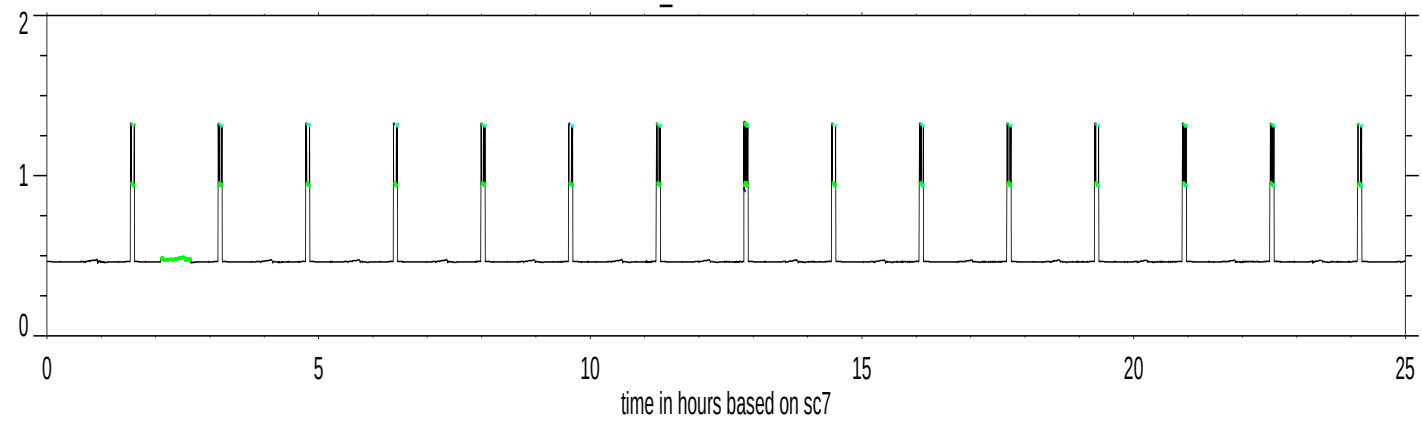

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020198


stat_xps_cnt
1.0
0.8
0.6
0.4
0.2
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020198

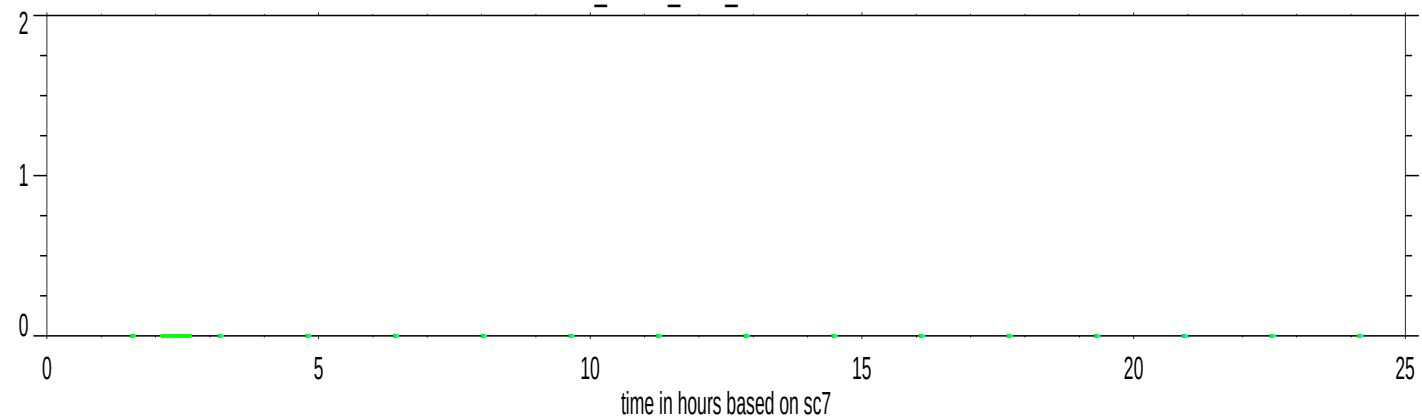

stat_xps_num
1.0
0.8
0.6
0.4
0.2
0.0
0 5 10 15 20 25
time in hours from 0 UT 2020198


stat_cmp_pwr
egs
xps
sspp
mu
5 10 15 20
time in hours from 0 UT 2020198

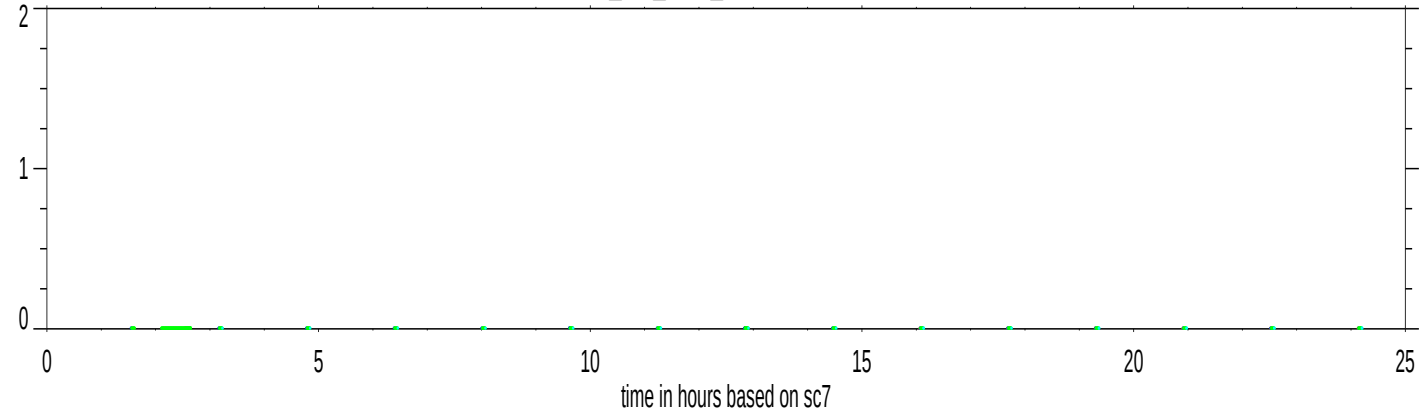
SEE_CUR 2020198



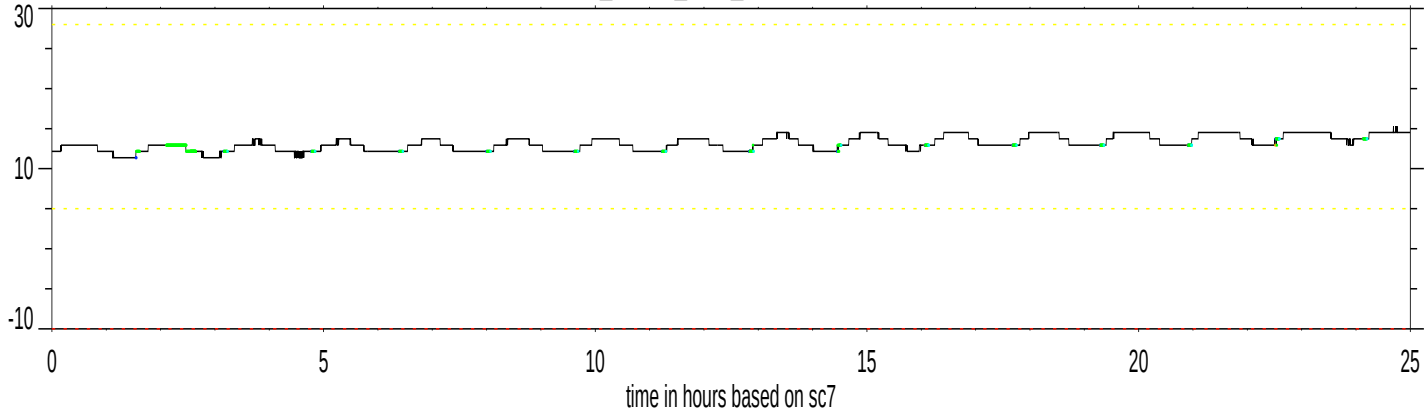
SEE_SURV_HTR_CUR 2020198

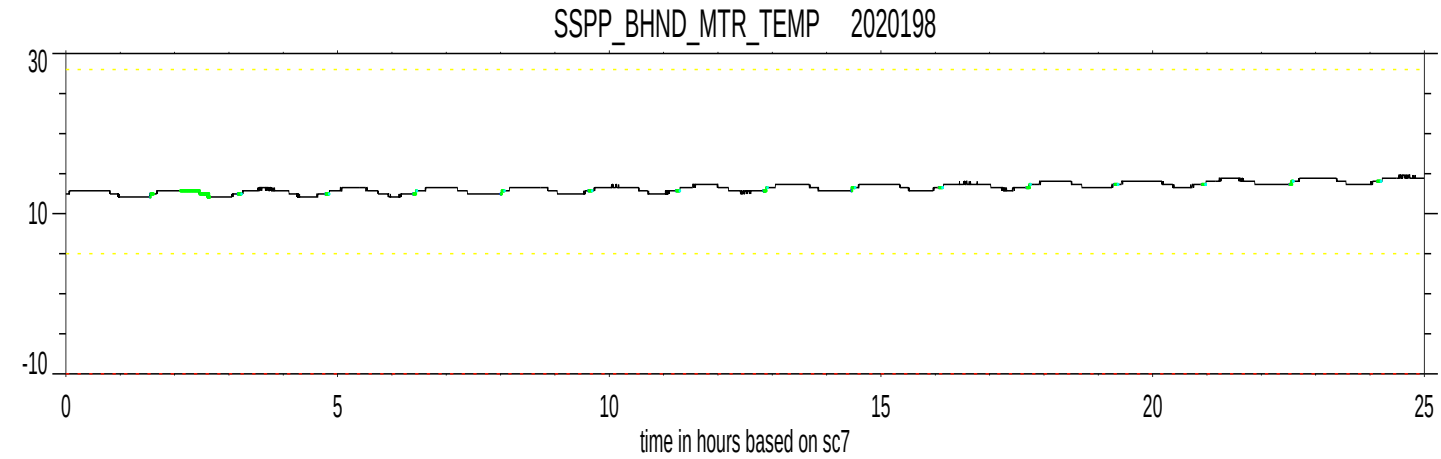


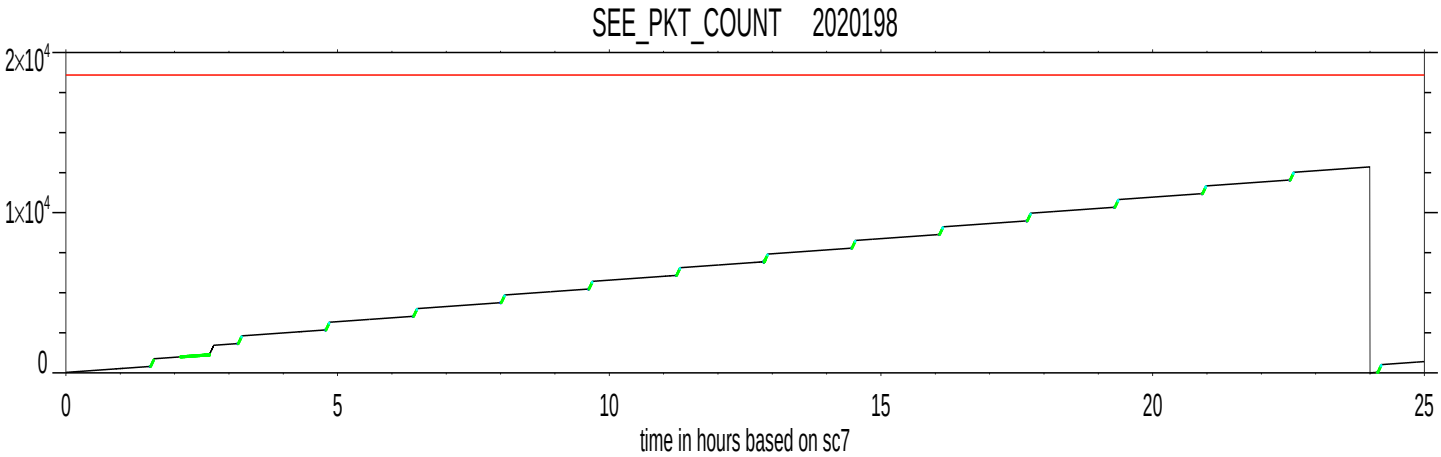
SEE_OP_HTR_CUR 2020198

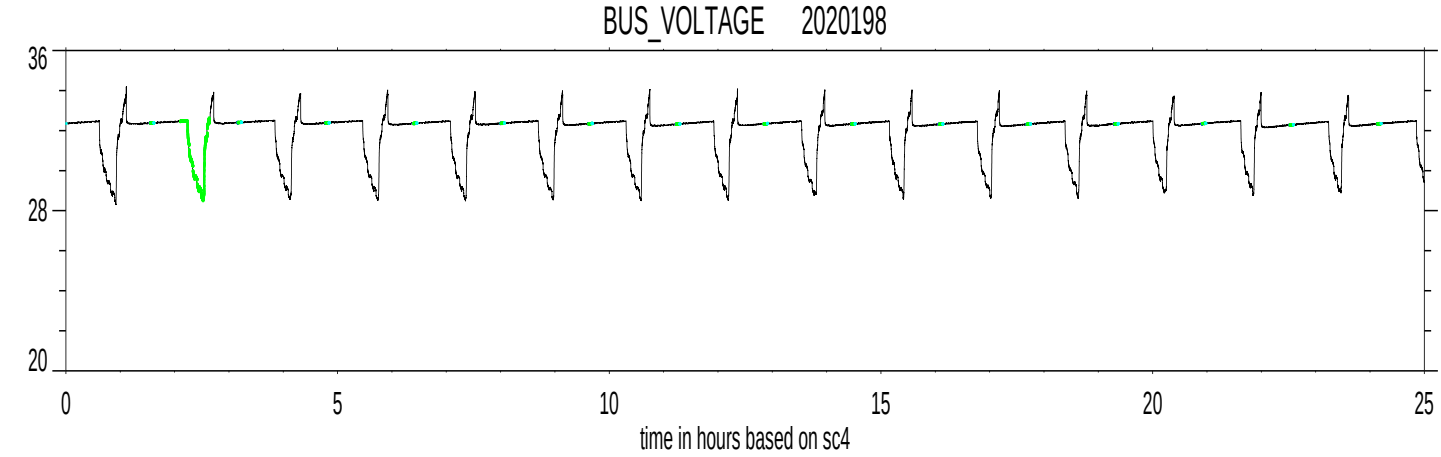


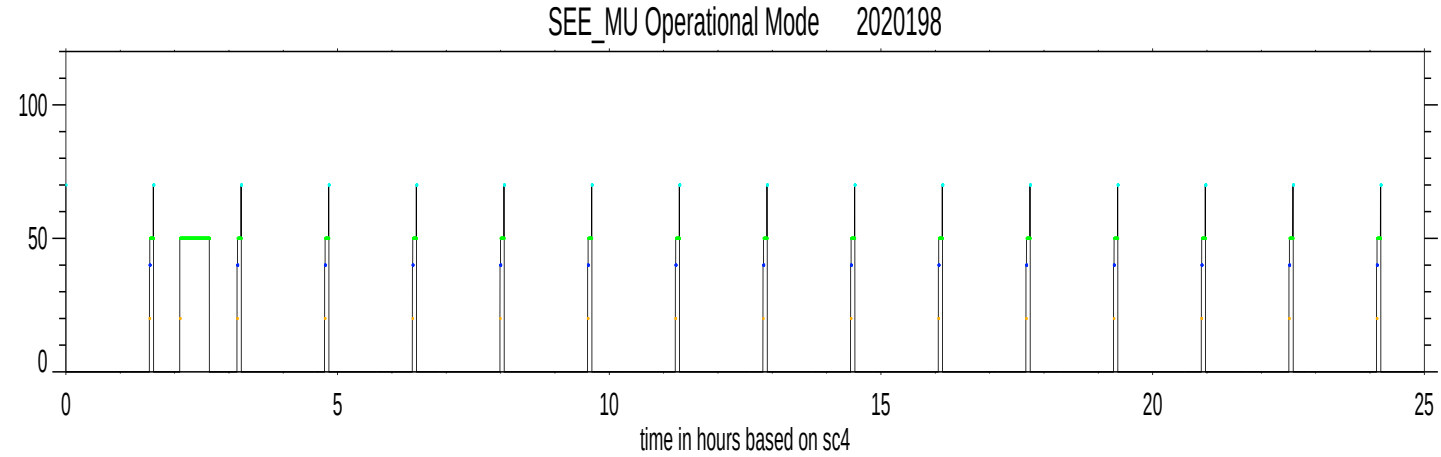
SSPP_BHND_XPS_TEMP 2020198

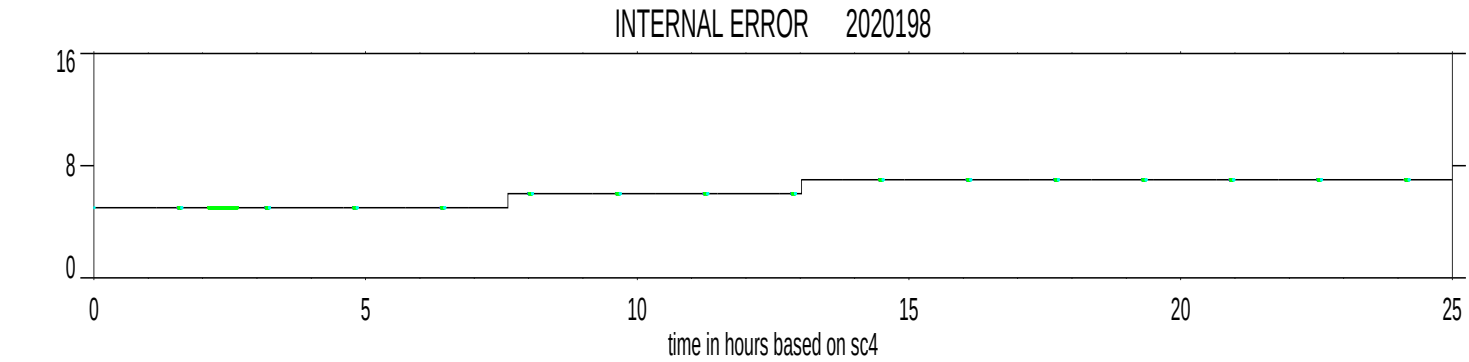


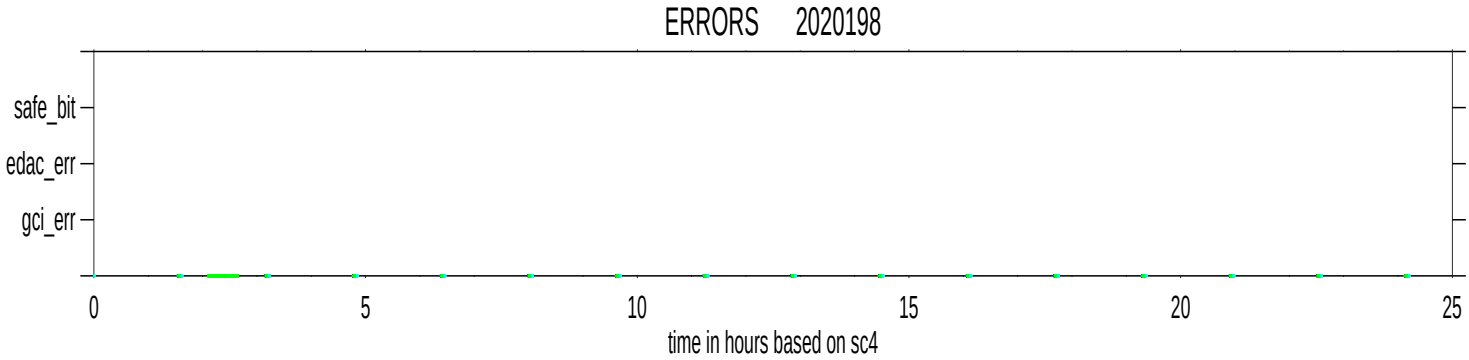

SSPP_BHND_MTR_TEMP 2020198
30
10
-10
0
5
10
15
20
25
time in hours based on sc7

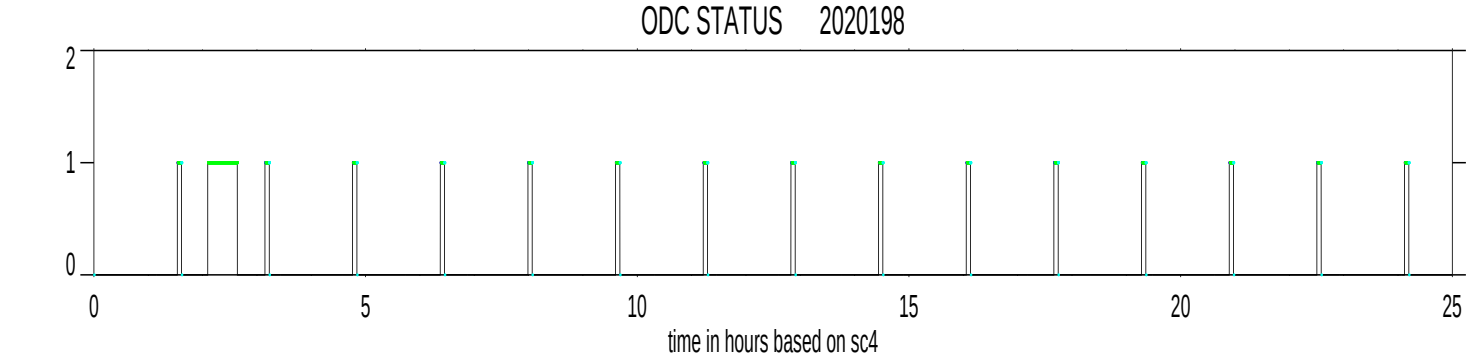

SEE_PKT_COUNT 2020198
2x10^4
1x10^4
0
0
5
10
15
20
25
time in hours based on sc7

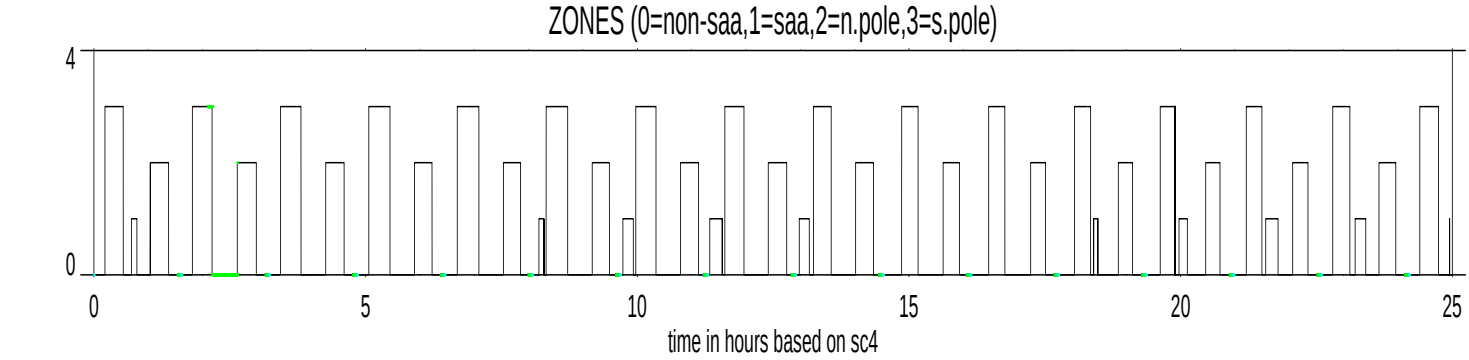

BUS_VOLTAGE 2020198
36
28
20
0
5
10
15
20
25
time in hours based on sc4

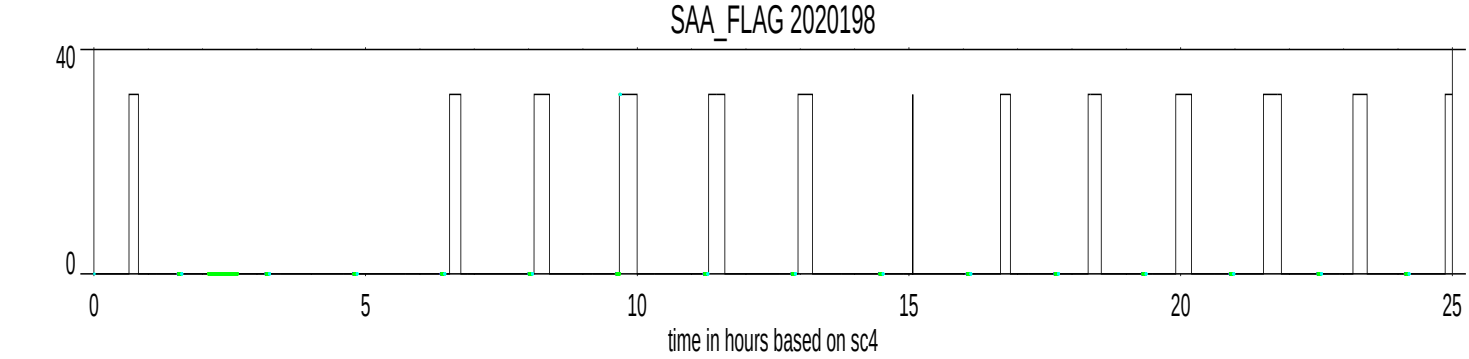

SEE_MU Operational Mode 2020198
100
50
0
0
5
10
15
20
25
time in hours based on sc4

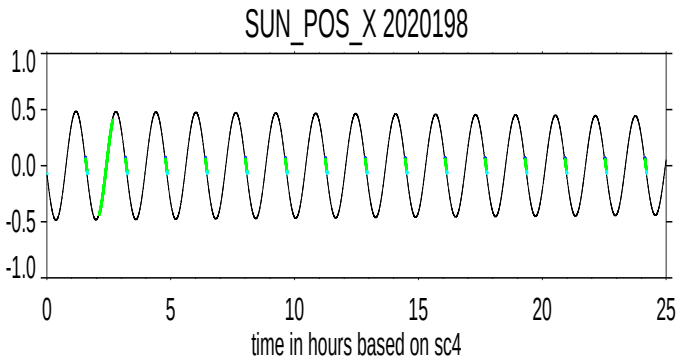

INTERNAL ERROR 2020198
16
8
0
0
5
10
15
20
25
time in hours based on sc4

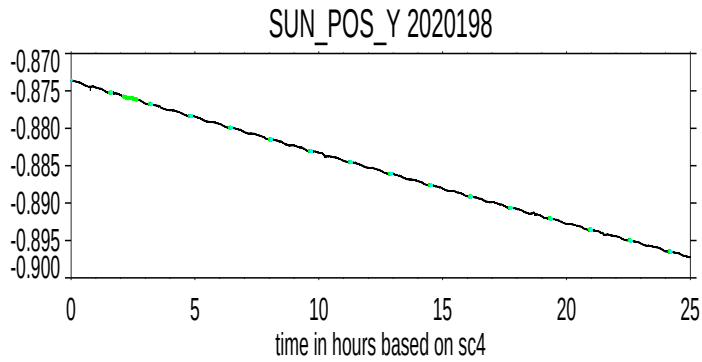

ERRORS 2020198
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

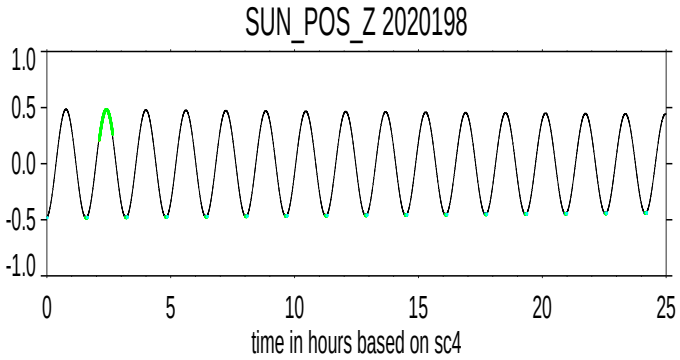

ODC STATUS 2020198
2
1
0
0
5
10
15
20
25
time in hours based on sc4

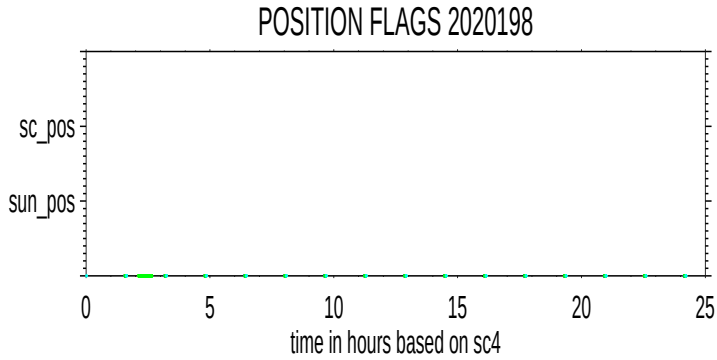

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

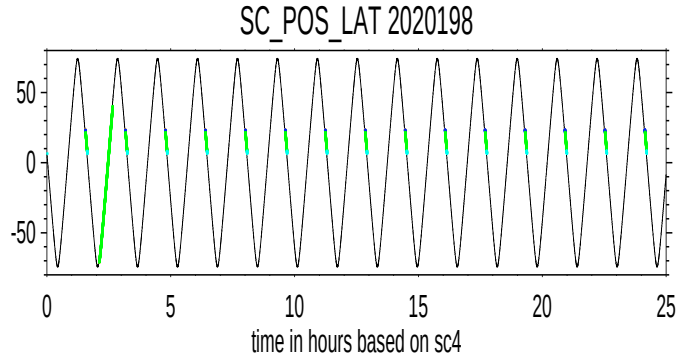

SAA_FLAG 2020198
40
0
0
5
10
15
20
25
time in hours based on sc4

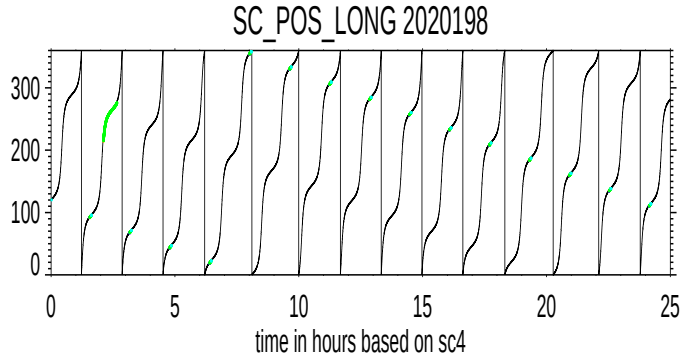

SUN_POS_X 2020198
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

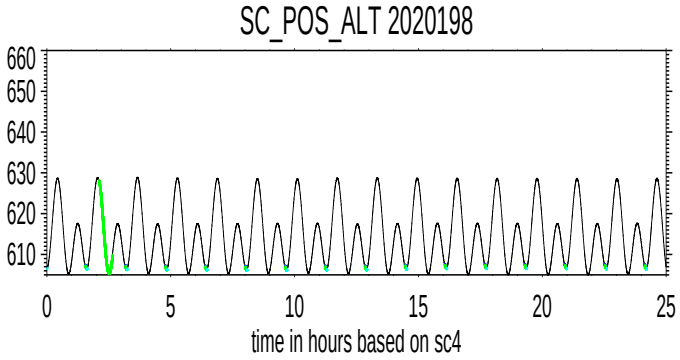

SUN_POS_Y 2020198
-0.870
-0.875
-0.880
-0.885
-0.890
-0.895
-0.900
0
5
10
15
20
25
time in hours based on sc4

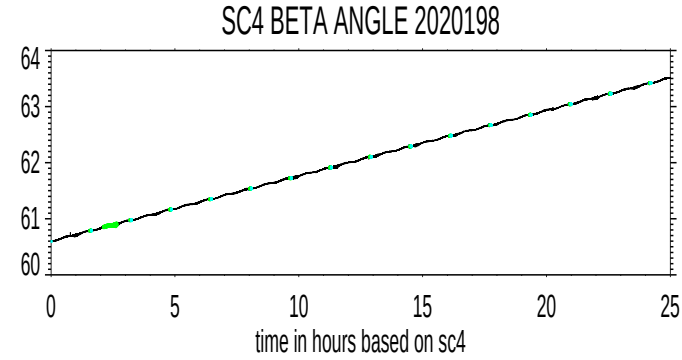

SUN_POS_Z 2020198
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2020198
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2020198
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2020198
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2020198
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2020198
64
63
62
61
60
0
5
10
15
20
25
time in hours based on sc4