
Summary of Anomalies:

1 - GOME was switched off, to test operation in Time-Tag (GMN11)dump Orb.26128
 data-gap: 08:45:50 - 08:47:26
 coolers off: 08:45:50 - 08:47:40

I) impact on temperatures during this time:

(delta time = t(off) - t(on)
 t(off) = 08:45:50
 t(on) = 08:47:26)

- a) FPA temperatures: change from nominal ~235K to ~244.5K
- b) thermal environment: T(on) = temperature at 08:47:26
 - pre-disperser Prism temp.: increase by delta = ~+0.2K, (T(on)=281.2 K)
 - opt. bench(centre) temp.: increase by delta = ~+0.5K, (T(on)=280.65K)
 - pmd temperature: decrease by delta = ~-0.5K, (T(on)=284.4 K)
 - sun diffuser: increase by delta = ~+2.0K, (T(on)=278.5 K)
 - cooler radiator: increase by delta = ~+0.4K, (T(on)=249.4 K)

II) Temperature of thermal environment decreases during 08:47:47 - 08:48:40.
 thermal environent: T(2) = temperature at 08:48:40

- pre-disperser Prism temp.: increase by delta = ~-0.8K, (T(2)=280.4 K)
- opt. bench(centre) temp.: increase by delta = ~-1.2K, (T(2)=279.4 K)
- pmd temperature: decrease by delta = ~-0.2K, (T(2)=284.25K)
- sun diffuser: increase by delta = ~-4.5K, (T(2)=274.0 K)
- cooler radiator: increase by delta = ~-2.0K, (T(2)=247.5 K)

III) After 08:48:40 returns to about nominal temperature that was measured at t = 08:45:50,

T(3) = temperature at 08:48:40
 - pre-disperser Prism temp.: T(3)= 280.9 K
 - opt. bench(centre) temp.: T(3)= 280.2 K
 - pmd temperature: T(3)= 284.5 K
 - sun diffuser: T(3)= 275.5 K
 - cooler radiator: T(3)= 248.0 K

2 - Memory Dump (change to the day before):

following the Time-Tag operations GOME was switched off
 reset to default values,
 one address 17FFF in E2PROMCOPY changed from template value FF to actual
 value FD (first occurrence of a change in this address)

Station ID	>>gap due to the Time_tag timeline 08:45:50 - 08:47:26
MPH Product Confidence	OK
SPH Window Information	OK
Command Word Echo Summary	>>Off flag set at KS, dump Orb.26128 08:47:26 - 08:47:40
Instrument Status 1A	>>SUoff/Comm/Error flag set at KS, dump Orb.26128 08:47:26 - 08:47:47
Instrument Status 1B	OK
Instrument Status 2	>>coolers off 08:45:50 - 08:47:40
Integration Times Channel 1	OK
Co-Adding and Cluster Mode Flags	OK
Integration Times Band 2A	OK
Integration Times Band 2B	OK
Integration Times Band 3	OK
Integration Times Band 4	OK
Scan Mirror Position	OK
Polarisation Detectors	OK

FPA Temperatures A OK
FPA Temperatures B OK
Charge Amp Temperatures OK
Other Temperatures A OK
DDHU Temperatures OK
Optical Bench Temperatures OK
Other Temperatures B OK
Calibr. Lamp and Instr. Status 3 OK
Scan Mirror Motor Current OK
Selected Temperature A OK
Selected Temperature B OK
Selected Temperature C OK
Channel 1 Summation OK
Channel 2 Summation OK
Channel 3 Summation OK
Channel 4 Summation OK
Log pages OK
331/318 nm Uncal. Line Ratio OK
Uncal. PMDs as RGB signal OK
780 nm Uncal. Intensity OK

GOME Memory Dump Check

19 Apr

2000

8944 differences found in RAM1 area

0 differences found in PROMCOPY area

5 differences found in E2PROMCOPY area

Address Actual Template

12FDE 0 FF

12FDF 7 FF

13003 0 1

13007 0 1

17FFF FD FF

0 differences found in E2PROM area

0 differences found in RAM2 area

0 differences found in PROM area