
Summary of Anomalies:

- 1 -!!! GOME anomalous behaviour between
 ~15:00 (15/10/2001) and 10:25:51 (16/10/2001) d. orb. 33919-33930 for:
 - detector temperatures values are ~268 K instead nominally ~235 K
 (instrument status flag though, for cooler status is set to 235K)
 - scan mirror position set 1, set to 261.8 deg during dark measurements
 and parts of nominal scan measurements
 - scan mirror position not set to polar view mode
 - scan mirror position temperature is about ~2 K higher than nominal
 (~285k instead of ~283K)
 - peltier output data for channels I-IV value -8419V contiguously
 (instead nominally ~-1.0 V)
 - increase in science data intensity channle I
- no co-adding flags set during d.orbit 33926, GS, 01:52:20 - 03:48:59
 - > - during d.orb. 33926, GS,02:13 - 03:47 integration time
 values mainly 60 sec instead of alternating with 60 sec and 10 sec
 - scan mirror during d.orb. 33926, GS, 02:13 - 03:47 in position
 of 261.8 deg contiguously

---> anomaly cured with GOME switch-of (GMN11)

- 2 - gap at KS due to the execution of timeline GMN11
 (switch-off/switch-on in time-tag) due to cure the GOME anomaly
 dump Orb. 33930, 10:25:51 - 10:27:28
 coolers off: 10:25:51 - 10:27:41
- 3 - Memory Dump (change to the day before):
 - address 17FFF in E2PROMCOPY changed from template value FF to actual FD
 - !!! - 3964 differences in addresses in E2PROM area found (all addresses
 between 18702 and 1967F changed to the actual value BB, see below)
- 4 - MS dump orbit 33938 EGOI small data gap 23:50:51 - 23:52:38
- 5 - GS dump orbit 33939 EGOI missing 23:52:38 (16/10/01) - 01:37:44 (17/10/01)
- 6 - anomalous long science dump at MS, d.orb.33924, 00:05:29 - 00:19:52,
 no data processing possible

 GOME Daily Reports Analysis 16 Oct 2001

Station ID	gap at KS due to the execution of timeline GMN11 dump Orb. 33930, 10:25:51 - 10:27:28
	MS dump orbit 33938 EGOI small data gap 23:50:51 - 23:52:38 GS dump orbit 33939 EGOI missing 23:52:38 (16/10/01) - 01:37:44 (17/10/01)
MPH Product Confidence	OK
SPH Window Information	OK
Command Word Echo Summary	OK
Instrument Status 1A	OK
Instrument Status 1B	OK
Instrument Status 2	OK
Integration Times Channel 1	>>during d.orb. 33926, GS,02:13 - 03:47 integration time values mainly 60 sec instead of alternating with 60 sec and 10 sec
Co-Adding and Cluster Mode Flags	>>no co-adding flags set during d.orbit 33926, GS, 01:52:20 - 03:48:59
Integration Times Band 2A	OK

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Integration Times Band 2B      OK
Integration Times Band 3      OK
Integration Times Band 4      OK
Scan Mirror Position          -GOME polar view timeline GMNSPT31 as planne
                              (due to anomaly, see above, only from ~10:25
                              again)
                              - scan mirror position set 1, set to
                              261.8 deg during dark measurements and
                              parts of nominal scan measurements (see above)
                              - scan mirror during d.orb. 33926, GS,
                              02:13 - 03:47 in position of 261.8 deg
                              contiguously

Polarisation Detectors
FPA Temperatures A           - detector temperatures values are ~268 K
                              instead nominal ~235 K (see above)
FPA Temperatures B           - detector temperatures values are ~268 K
                              instead nominal ~235 K (see above)

Charge Amp Temperatures      OK
Other Temperatures A         - scan mirror position temperature is
                              about ~2 K higher than nominal
                              (~285k instead of ~283K) see above

DDHU Temperatures            OK
Optical Bench Temperatures   OK
Other Temperatures B         OK
Calibr. Lamp and Instr. Status 3  >> Solar calibration performed
                              in dump Orb. 33931
                              start of sun calibration 12:17:57.45
                              intensity of sun calibration:
                              ~18200 BU ->PMD2 readouts analysed with ERGO;
                              (note: due to seasonal effects nominal values
                              range between ~16000 - ~19000 BU

                              - anomalous long science dump at MS, d.orb.
                              33924, 00:05:29 - 00:19:52, no data
                              processing possible

Scan Mirror Motor Current    OK
Selected Temperature A       OK
Selected Temperature B       OK
Selected Temperature C       OK
Channel 1 Summation          increase in science data intensity channle I
                              (see above)
Channel 2 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

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GOME Memory Dump Check

16 Oct

2001

8933 differences found in RAM1 area
 0 differences found in PROMCOPY area
 6 differences found in E2PROMCOPY area

Address	Actual	Template
12FDE	0	FF
12FDF	7	FF
13003	0	1
13007	0	1
1300B	1	10
17FFF	FD	FF

3964 differences found in E2PROM area

Address	Actual	Template
18702	BB	4
18703	BB	2
18704	BB	3

18705	BB	FA
18706	BB	0
18707	BB	A
18708	BB	7
18709	BB	72
1870A	BB	6
1870B	BB	42
1870C	BB	5
1870D	BB	CC
1870E	BB	2
1870F	BB	A
18710	BB	3
18711	BB	22
18712	BB	3
18713	BB	22
18714	BB	4
18715	BB	F2
18716	BB	C
18717	BB	FA
18718	BB	0
18719	BB	2
1871A	BB	10
1871B	BB	2
1871C	BB	F
1871D	BB	FA
1871E	BB	0
1871F	BB	0
18720	BB	10
18721	BB	2
18722	BB	F
18723	BB	FA
18724	BB	0
18725	BB	E
18726	BB	4

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18A2C	BB	31
18A2D	BB	45
18A2E	BB	0
18A2F	BB	32
18A30	BB	8B
18A31	BB	55
18A32	BB	4C
18A33	BB	EC
18A34	BB	50
18A35	BB	4C
18A36	BB	52
18A37	BB	53
18A38	BB	B8
18A39	BB	1E
18A3A	BB	0
18A3B	BB	0
18A3C	BB	D8
18A3D	BB	8E
18A3E	BB	E4
18A3F	BB	FB
18A40	BB	88
18A41	BB	C0
18A42	BB	FF
18A43	BB	46
18A44	BB	1E

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19666	BB	4D
19667	BB	F0
19668	BB	18

19669	BB	BA
1966A	BB	EE
1966B	BB	3
1966C	BB	6
1966D	BB	C6
1966E	BB	91
1966F	BB	FB
19670	BB	BA
19671	BB	0
19672	BB	3
19673	BB	20
19674	BB	88
19675	BB	EC
19676	BB	FF
19677	BB	46
19678	BB	26
19679	BB	80
1967A	BB	91
1967B	BB	E2
1967C	BB	8A
1967D	BB	FC
1967E	BB	FF
1967F	BB	46

0 differences found in RAM2 area

0 differences found in PROM area