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Monthly Calibration mode from ~13:00 - ~21:30 (Orb.39328-32 at KS)

(please note that all lamp sequences during orbits 39329-32 went into Lamp Failures, the lamp calibration performance during orbit 39328 was instable)

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Summary of Anomalies:

instrument info  
EGOI

1 - LAMP FAILURES no 51-66 occurred during monthly calibration sequence (orbits 39329-332)

orbit 39328

Calibration Lamp Instability:

1st lamp sequence 13:13:02-13:23:00 (lamp ignition ~206V, then ~197V) starts to have sudden switches in the voltage (every 3 to 10 products) between ~183V and 197V (back and forth) at 13:14:23 until the end of sequence 13:23:00

2nd lamp sequence 13:38:00-13:48:00 (lamp ignition ~205V, then ~197V) sudden switches (nearly every product) between ~182V and 197V at 13:38:54 until the end of sequence 13:48:00

3rd lamp sequence 13:56:00-14:05:58 (lamp ignition ~204V, then ~197V) sudden switches (nearly every product) between ~181V and 197V at 13:56:51 until the end of sequence 14:05:58

4th lamp sequence 14:22:28-14:41:22 (lamp ignition ~205V, then ~197V) sudden switches (nearly every product) between ~181V and 197V at 14:23:19 until 14:27:56. then it remains contiguously at level of ~181V the end of sequence 14:41:22

all following calibration lamp sequences are unsuccessful, the lamp ignition reaches always only about 180-182 V (see the periods of lamp failures below)

orbit 39329

Lamp Failure flag (no 51) was set: 14:53:55 - 15:03:35  
Lamp Failure flag (no 52) was set: 15:18:55 - 15:28:35  
Lamp Failure flag (no 53) was set: 15:36:55 - 15:46:34  
Lamp Failure flag (no 54) was set: 16:03:22 - 16:21:57

orbit 39330

Lamp Failure flag (no 55) was set: 16:34:31 - 16:44:12  
Lamp Failure flag (no 56) was set: 16:59:30 - 17:09:14  
Lamp Failure flag (no 57) was set: 17:17:30 - 17:27:11  
Lamp Failure flag (no 58) was set: 17:43:57 - 18:02:35

orbit 39331

Lamp Failure flag (no 59) was set: 18:15:06 - 18:24:50  
Lamp Failure flag (no 60) was set: 18:40:07 - 18:49:50  
Lamp Failure flag (no 61) was set: 18:58:07 - 19:07:47  
Lamp Failure flag (no 62) was set: 19:24:34 - 19:43:12

orbit 39332

Lamp Failure flag (no 63) was set: 19:55:43 - 20:05:27  
Lamp Failure flag (no 64) was set: 20:20:43 - 20:30:25  
Lamp Failure flag (no 65) was set: 20:38:42 - 20:48:24  
Lamp Failure flag (no 66) was set: 21:05:11 - 21:23:48

please, note: the last GOME lamp Failure had occurred day 28/08/2002 during a monthly calibration sequence (since Sept. 2001 the calibration lamp is used mainly during monthly calibration)

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 GOME Daily Reports Analysis      28 Oct                      2002  
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Station ID	OK	
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	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	>> Solar calibration performed in dump Orb. 39327 start of sun calibration 11:30:06.07 intensity of sun calibration: ~17430 BU ->PMD2 readouts analysed with ERGO; (note: due to seasonal effects nominal values range between ~16000 - ~19000 BU	
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 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                      28 Oct                      2002  
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9018 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
1300B	1	10

0 differences found in E2PROM area  
 0 differences found in RAM2 area  
 0 differences found in PROM area