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GOME Daily Reports Analysis
                                        20 Mar
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Summary of Anomalies:
1 - Science Dump flag not set until GOME switch-off !!!
    nominally would be: once per orbit flag is set during 34 or 38 products.
    last nominal setting of flag:
    MS, dump Orb. 25321 (22/02/2000), 23:55:36 - 23:56:48
    flag set again during dump orbit 25707, 23:00:37 - 23:01:43
    nominal afterwards
2 - Memory Dump (change to the day before):
    no dump info in EGOC_000320KSEP1454-55.E2;1 found
3 - GOME was switched off, to test operation in Time-Tag
    data-gap: 16:10:00 - 16:12:16,
    coolers off: 16:12:16 - 16:12:43
    impact on temperatures during this time:
    a) FPA temperatures: change from nominal ~235K to ~246K
    b) thermal environment: T(on) = temperature at 16:12:16
       - pre-disperser Prism temp.:increase by delta = ~+0.2K, (T(on)=281.55K)
       - opt. bench(centre) temp.: increase by delta = ~+0.6K, (T(on)=280.95K)
       pmd temperature:
                                 decrease by delta = \sim-0.9K, (T(on)=284.4 K)
       - sun diffuser:
                                 increase by delta = \sim+2.5K, (T(on)=279.0 K)
 4 - GOME was switched off, due to an ERS2 on board anomaly
   (see unavailability reports ESOC, ER-UNA-2000/014)
   gap , dump Orb. 25703 - 25706
   16:12:43 - 21:43:34
   TST44 started at ~21:45 , dump Orb. 25706
   back to Mission Schedule 15:05:10 (d.Orbit 25707);
   ~21:43:34 (exact start cannot be analysed due to data gap) - 21:57:13 (end)
   maximum warm up of detectors: 263.6 K
   impact on temperatures during gap time:
    a) FPA temperatures:
                                                            (T(on)=235.0 K)
    b) thermal environment: T(on) = temperature at 21:43:34
       - pre-disperser Prism temp.:decrease by delta = ~-6.1K, (T(on)=275.45K)
       - opt. bench(centre) temp.: decrease by delta = ~-6.2K, (T(on)=274.75K)
       - pmd temperature:
                                 decrease by delta = \sim-0.9K, (T(on)=279.35K)
       - sun diffuser:
                                 decrease by delta = \sim-9.0K, (T(on)=270.0 K)
   sun calibration performed twice:
   first calibr. with nominal detector temp ~235 K, 10:07:10.25, d. Orb.25699
   2nd calibration: with warm detectors(timeline TST44, T = \sim 261.0 \text{ K})
   start of sun calibration : 21:51:17.71, d. o. 25606/07
 5 - HDDT flag set at KS,
     d.O. 25698, 06:58:52 - 07:31:51
     d.O. 25700, 10:56:04 - 11:29:00
     d.O. 25702, 14:12:55 - 14:44:40
     d.O. 25706, 21:43:34 - 21:54:22
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Station ID
                           >>data gaps:
                                 KS, d. Orb.25703, 16:10:00 - 16:12:16
                                  KS, d. Orb.25703-06, 16:12:43 - 21:43:34
MPH Product Confidence
                                >>HDDT flag set at KS,
                                  d.O. 25698, 06:58:52 - 07:31:51
                                  d.O. 25700, 10:56:04 - 11:29:00
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d.O. 25702, 14:12:55 - 14:44:40
                                     d.O. 25706, 21:43:34 - 21:54:22
SPH Window Information
                                  OK
                                  >>s. above
Command Word Echo Summary
Instrument Status 1A
                                  >>s. above
Instrument Status 1B
                                  OK
Instrument Status 2
                                  >>coolers off: s. above
Integration Times Channel 1
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
                                  >>GOME polar viewline GMNNPT35 operated as
                                    planned (between 10/03/2000 - 03/04/2000)
Polarisation Detectors
FPA Temperatures A
                                  >>maximum warm up of detector 263.6 K
FPA Temperatures B
                                  >>maximum warm up of detector 263.7 K
Charge Amp Temperatures
                                  >>temp. out of range due to switch-off
Other Temperatures A
                                  >>temp. out of range due to switch-off
DDHU Temperatures
                                  >>temp. out of range due to switch-off
                                  >>temp. out of range due to switch-off
Optical Bench Temperatures
                                  >>temp. out of range due to switch-off
Other Temperatures B
Calibr. Lamp and Instr. Status 3
                                  >> Science Dump flag not set until GOME
                                     switch-off; first flag setting again in
                                     dump Orb. 25707
Scan Mirror Motor Current
                                 OK
Scan Mirror Motor Current
                                  OK
Selected Temperature A
                                  >>temp. out of range due to switch-off
Selected Temperature B
                                  >>temp. out of range due to switch-off
Selected Temperature C
                                  >>temp. out of range due to switch-off
Channel 1 Summation
Channel 2 Summation
                                  OK
Channel 3 Summation
                                 OK
                                 OK
Channel 4 Summation
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 20 Mar 2000

no dump info in EGOC_000320KSEP1454-55.E2;1 found

