	Operations Notes	Topic:	**FOS Report for week 08, year 2019**
	FOS Team @ ESAC	Date:	from 18 FEB 2019 to 25 FEB 2019
	Reported by:	Issue:	**1.0**
	J. Fauste/J.M. Castro Cerón		

1 General Comments

Activities scheduled for this week are those planned for the 08th calendar week of 2019:

```
18 FEB 2019 to 25 FEB 2019 (DOYs 049 to 056).
```

The following routine activities were planned this week (see Gantt chart on next page and CRF 792).

- One PMS Offset on 21 FEB 2019 (DOY 052), including three Short Calibrations at 06:36:30.0z, 06:37:04.8z, and 06:37:39.6z (orbit 48897).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.

Operations Notes

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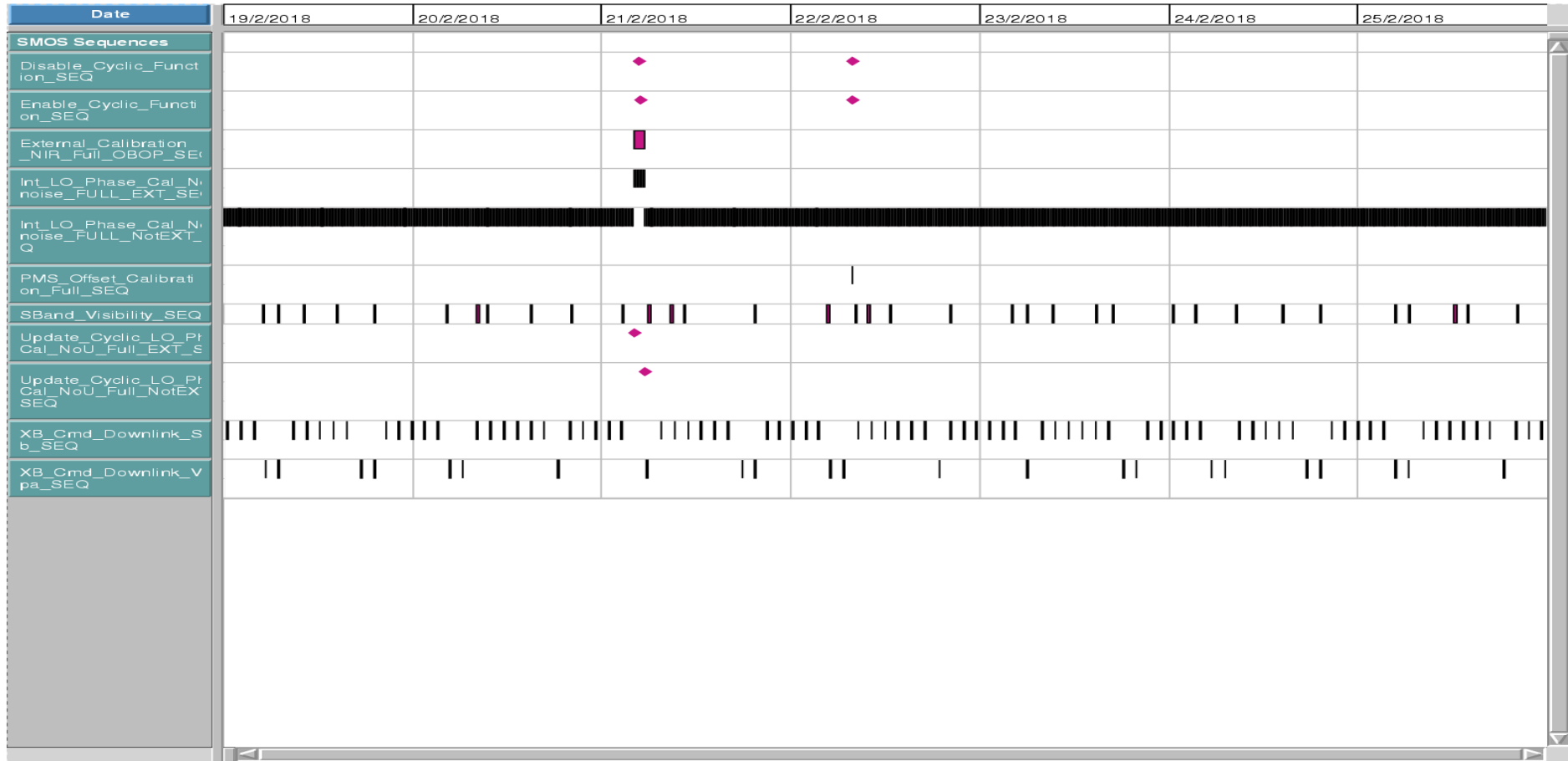*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

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1.0

Schedule Name: 2018_w08_cr   ###   Display start: 19-02-2018 00:00:00.000   ###   Display end: 26-02-2018 00:00:00.000

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SMOS

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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P0, latched up 2019-02-21T01:39:12,822z (DOY 052). The following parameters went out of limits in the PLPC system:

2019.052.01.39.12,822z	*DMASME12*	*LU Switch P0*
2019.052.01.39.12,822z	*DMASME37*	*SDD LU Detected*

  This anomaly was geolocated over inner Antarctica:

Latitude	*= -81.05°*
Longitude	*= 135.22°*

  There was a marginal loss of science data because of this anomaly, since it affected P0. At the time of the anomaly, the Read and Write pointers were on partition P2. Such unavoidable loss was been minimised by applying FOS new X Band Data Dump modelling capabilities (230 seconds of data lost). Recovery took place that same afternoon, 21 FEB 2019, at 15:52:00z (CRF 796).

  At the time of the anomaly the position of the MM pointers were as follows:

READ	*= 908729*	*(partition P2)*
WRITE	*= 1053349*	*(partition P2)*

5 On Board Events Telemetry

No relevant on-board event packets were received during this week.

6 FOS Systems Status

On the 21st of February, three new SW patches were installed on the FOS systems as follows:

- PLPC-MAINT-SPR-193 to include a new CSV output format as part of the SCOS TM PRINT task. This new patch generates TM files in CSV ASCII format. The patch was installed in all the FOS machines running SCOS PLPCPRM, PLPCBKP, PXMFPRM, PXMFBKP, PLPCDEV2 and PLPCDEV3.
- PLPC-MAINT-SPR-192 to include a new script to periodically delete TC Groups mission planning files on PLPCEXT machines.
  The patch itself is a script called cleanupSOGSoutTray.sh installed in both machines PLPCEXT-1 and PLCEXT-2 under directory */home/plpcftp/scripts*. By default the script is only running on the

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machine that is acting as backup machine, in this case PLPCEXT2, while it is not running in the one acting as prime (PLPCEXT1).

- PLPC-MAINT-SPR-170 to include a new script to periodically delete SCOS log files older than 30 days. The new script runs as *cronjob* and it has been installed in PLPCPRM, PLPCBKP, PXMFPRM and PXMFBKP machines.

7 Data Reception from CNES

All *S* band passes were correctly received from CNES and successfully processed by the FOS PLPC system.

8 *X* Band Data Reception in PXMF

None, all *S* band passes successfully received and processed.

9 Exceptional Activities

None.

10 AOB

None.

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APPENDIX A: OOLs

At the time of the Mass Memory Latch-up anomaly, the following OOL were issued by the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019-02-21T09:10:55	2019-02-21T01:39:12	DMASME37	SDD LU Detected	FALSE	TRUE
2019-02-21T09:10:55	2019-02-21T01:39:12	DMASME12	LU Switch P0	OFF	ON