Operations Notes
FOS Team @ ESAC
Reported by:
J. Fauste/J.M. Castro Cerón

Topic:	**FOS Report for week 34, year 2020**
Date:	from 17 AUG 2020 to 24 AUG 2020
Issue:	**1.0**

SMOS

1   General Comments

Activities scheduled for this week are those planned for the 34th calendar week of 2020:

```
17 AUG 2020 to 24 AUG 2020 (DoYs 230 to 237).
```

The following routine activities were planned this week (see Gantt chart on next page and CRF 907).

- One Warm NIR Calibration on 19 AUG 2020 (DoY 232) with ETO 04:12:10z (orbit 56738; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:
  ```
  B.T.            =       4.09°
  R.M.S.          =       0.43
  Sun elevation   =       2.18°
  Moon elevation  =       4.70°
  R.A.            =     241.22°
  DEC.            =      23.49°
  ```
- Two LONG Calibrations on 20 AUG 2020 (DoY 233), which encompassed two ascending semi-orbital periods starting at 15:31:00z (orbit 56759) and 17:10:00z (orbit 56760).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2   Mission Planning Deviations

None.

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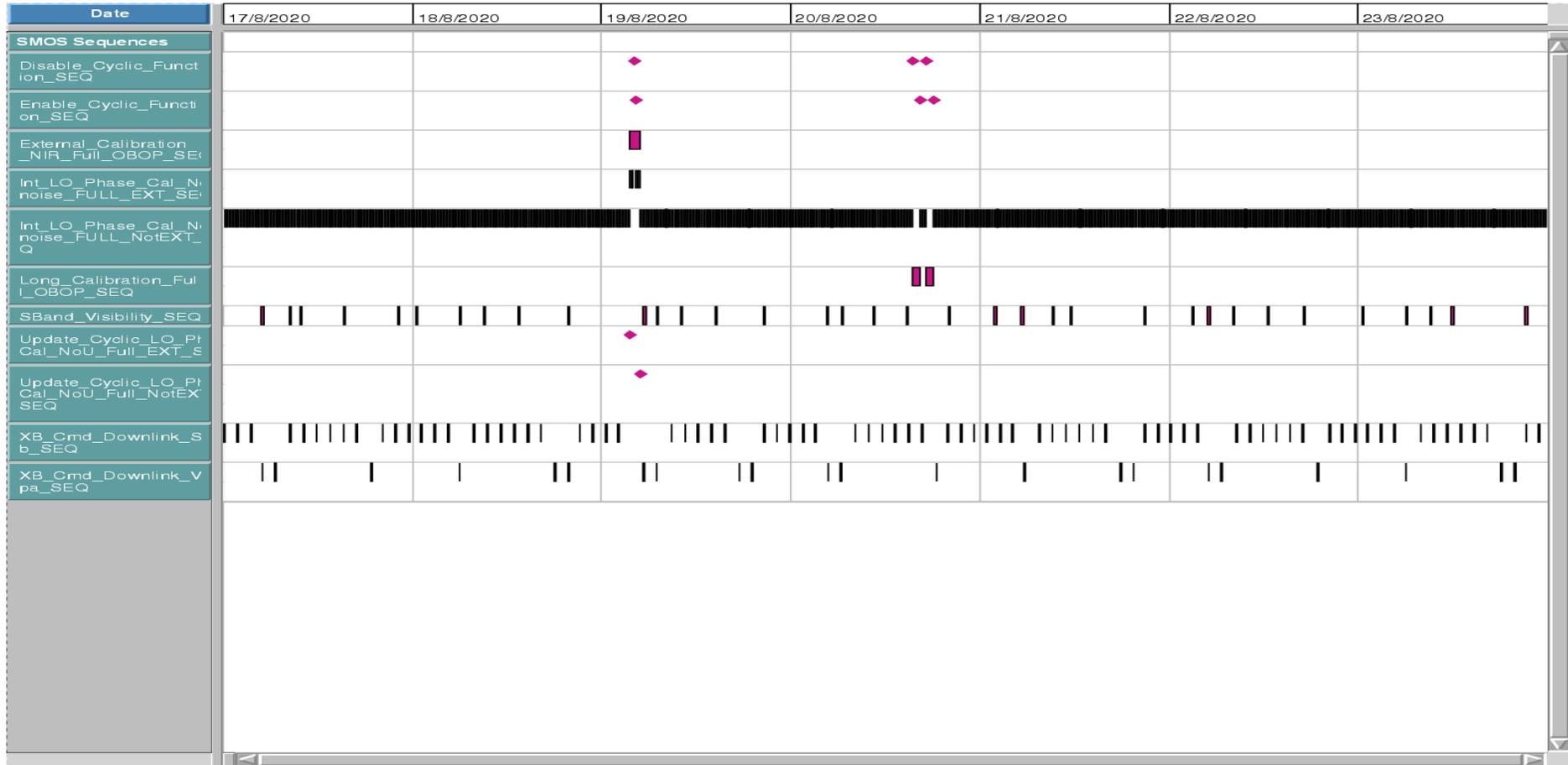
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Schedule Name: 2020_w34_cr   ###   Display start: 17-08-2020 00:00:00.000   ###   Display end: 24-08-2020 00:00:00.000

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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit C3, unlocked 2020-08-19T11:44:45.134z (DOY 232). This anomaly was geolocated over the Pacific Ocean, off the coast of central Perú:

  Latitude   = -15.59°
  Longitude   = 276.50°

  Only locking status parameter SPM22167, went out of limits in the FOS PLPC system. The anomaly recovered in 11 epochs.

5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Packet ID	Severity	Event Time	Parameters
RAM single Bit Error	730	WARN	2020-08-22T10:18:10	23EFC6C
RAM single Bit Error	730	WARN	2020-08-20T12:25:21	216D644
RAM single Bit Error	730	WARN	2020-08-18T21:09:19	208A518
RAM single Bit Error	730	WARN	2020-08-17T18:59:28	22A4E8C

6 FOS Systems Status

All FOS systems nominal.

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

The CMN unlock anomaly on the 19th of August, generated the following temporary out of limit on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2020-08-19T14:48:51	2020-08-19T11:44:45	SPM22167	C3 LO_Locking	UNLOCK	LOCK