

## sentinel-3

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### Mission Status Report 1

Reference Period: 16 – 19 Feb 2016

#### Mission status

- The overall Mission status is nominal.
- The Launch and Early Orbit Phase (LEOP) has been completed on 18 Feb 2016 (one shift earlier than planned), with some platform In-Orbit Verification (IOV) activities being advanced from w/c 22 Feb.
- The strategy to reach the reference orbit has been defined.
- S3A is ready to start Satellite IOV commissioning on Monday 22 Feb.
- There is no significant risk for collision.

#### Satellite

- All subsystems and units are operating nominally.
- The spacecraft (S/C) is in NORMAL mode, the high bit rate for telemetry and Attitude and Orbit Control System (AOCS) is in NOMINAL mode (geocentric guidance law), the Reaction Control System (RCS) has been vented and primed.
- All units are on the nominal side, both Authentication Units (AU) are in CLEAR mode.
- The Star trackers de-pointing shown after their switch-on has been corrected by uploading a patch with the correct rotation quaternion and are now performing fully nominally.
- PDHT, SRAL, SLSTR, MWR, OLCI and DORIS are OFF as per nominal end of LEOP configuration.

#### Ground Segment

- The FOS ground segment is nominal.
- As from 20 Feb, the contacts scheduling will move to the default commissioning pattern using, in general, 10 passes per day over Kiruna, Svalbard or Troll, with no combined Kiruna and Svalbard passes.
- As from 20 Feb, EUMETSAT will start to listen in.
- The Payload Data Ground Segment commissioning will start on 22 Feb with the first X-band acquisition at the Svalbard ground station being planned for 23 Feb.
- Mission planning function will start on 22 Feb allowing to enter automated operations starting with X-band download, progressively followed by instrument commanding.

#### Outlook

- Start of the satellite commissioning activities focusing on platform activities, including
  - Functional test of the redundant platform equipment.
  - Thruster calibration and test.
  - First in-plane manoeuvre to initiate the transition to the reference orbit
  - PDHU and DORIS switch-ON and test
  - Enabling of GNSS science packets
  - SLSTR decontamination switch-ON

#### User interface and communication

- Users will be informed about the availability of sample data and their distribution in due time.