

Sentinel-6 Michael Freilich

Sentinel-6/Jason-CS Mission Operations Status

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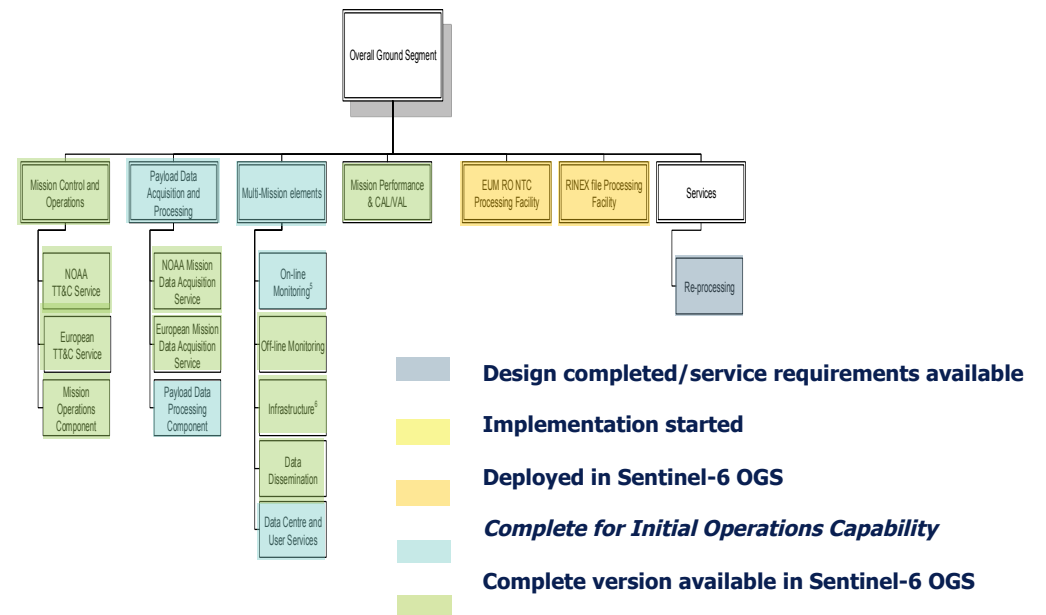
Mission Operations – Overall Status



- The **system baseline is well established** and under configuration control.
- The **Overall Ground Segment (OGS)** including the JPL and NOAA contributions have been **deployed, qualified and validated**.
- **Operations Build-up activities are at the required level** with rehearsals on-going as confirmed in the Operations Readiness Review for Launch.
- **The plans for post-launch activities during Commissioning are well established** and a joint **Sentinel-6 Validation Team** is nominated.
- An **integrated in-orbit timeline for the Commissioning** has been established and is shared/consolidated with the involved partners.
- **Operations coordination** and the links between the various activities (SatIOV, Cal/Val, SysIOV) are established with the **Mission Plan** and the underlying processes and agreements, i.e. **Operations Coordination Group** and joint **Anomaly Review Boards, Operations Interface Agreements**

Mission Operations – Overall Ground Segment (OGS)

- **OGS deployment and acceptance** completed for IOC capability
- **NOAA Fairbanks, Alaska Ground Station is ready** and is supporting the next phase of launch/operational readiness
- **SSC Ground Station Service from Kiruna in place**
- **Deployment of PDP v3 for Final Operations Capability (FOC = ALT LR+HR + RO) on-going**
- **OGS requirements verification virtually complete:** remaining/on-going activities related to overall GS performance, distribution of high-volume items and NOAA CaTT RFCT
- **Sentinel-6 Mission Control Center implemented at EUMETSAT**



Mission Operations – Science Data Processing



- **Science data acquisition ensured** through **NOAA Ground Station** (Fairbanks) and commercial acquisition services from **Swedish Space Cooperation** (ESRANGE, Kiruna)
- **PDP V2 deployed** at EUMETSAT in support of immediate post-launch activities (IOC):
 - Altimetry Low Rate and AMR-C processing capability
 - NRT/STC/NTC configurations
- **PDP V3 deployment** and on-site testing at EUMETSAT in Q4/2020 in support of start of ALT HR Commissioning (FOC) early 2021:
 - Updated altimetry science processors for HR processing
 - Factory acceptance of HR processors successfully achieved, integration in processing chain ongoing
- **Dissemination of science data products** ensured by EUMETSAT in Europe and by NOAA and NASA in the US
- **Exploitation of EUMETCAST Terrestrial** for timely exchange of non-critical data (incl. high-volume items) between EUMETSAT and NOAA/NASA
- **L2P and L3 altimetry processing** under preparation by CNES, dissemination towards end of commissioning phase

Sentinel-6/Jason-CS: Commissioning Phase Logic

