



Sentinel-6 products status

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From Commissioning to Now

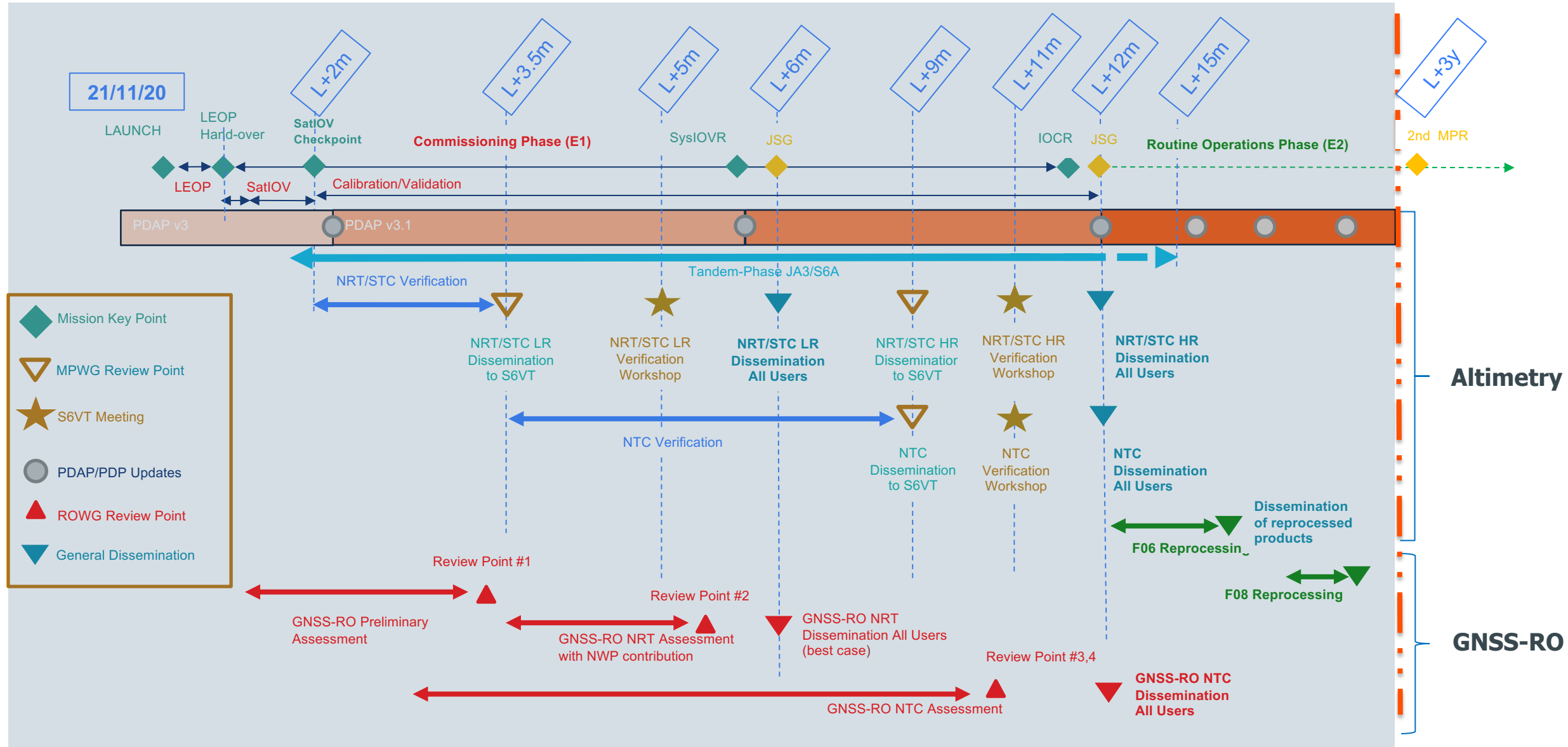
Status of Sentinel-6 Products

Recent Events

What's up soon?



Sentinel-6 Michael Freilich – Commissioning to routine operations





Sentinel-6 Michael Freilich - status of services

Product release:

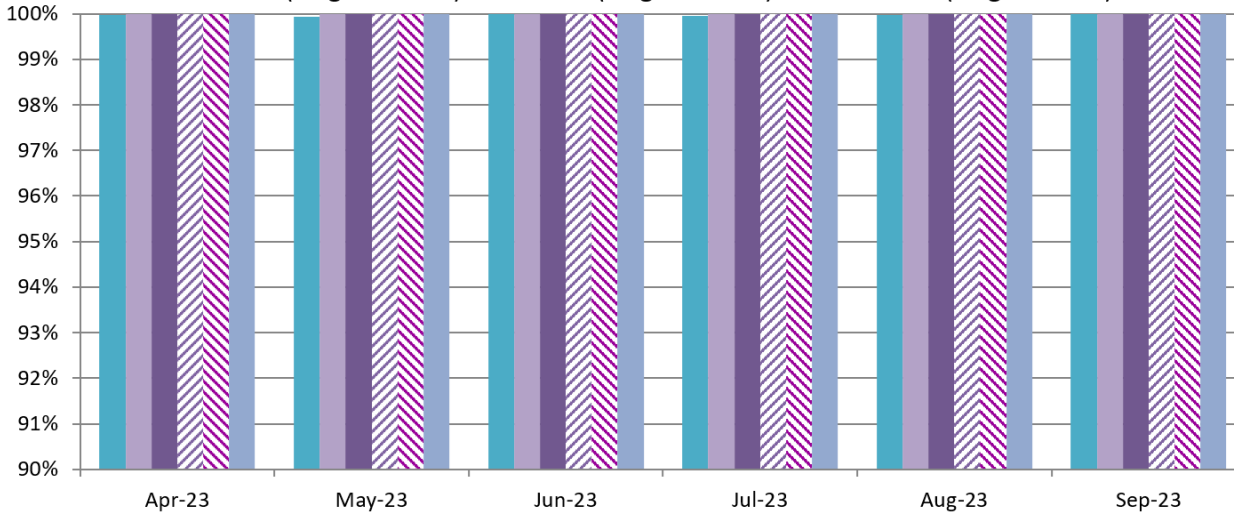
Product	Latency	Format	Distributed since June 2021	Distributed since November 2021	Distributed since April 2022
ALT Low Resolution (LRM)	NRT	BUFR	L2 (GTS since Sep 2021)		
		NetCDF	L2		L2P, L3 Wind/Waves
	STC	NetCDF	L1B, L2		L2P, L3
	NTC	NetCDF		L1B, L2	L2P (Dec 22) L3 (Jan 23)
ALT High Resolution (SAR)	NRT	BUFR		L2	
		NetCDF		L2	L2P
	STC	NetCDF		L1A, L1B, L2	L2P, L3
	NTC	NetCDF		L1A, L1B, L2	L2P (Dec 22) L3 (Jan 23)
MWR	NRT	NetCDF	L2		
	STC	NetCDF	L2		
	NTC	NetCDF		L2	
RO	NRT	BUFR	L1B, L2 (GTS since Aug 2021)		
	NTC	NetCDF		L1B, L2	



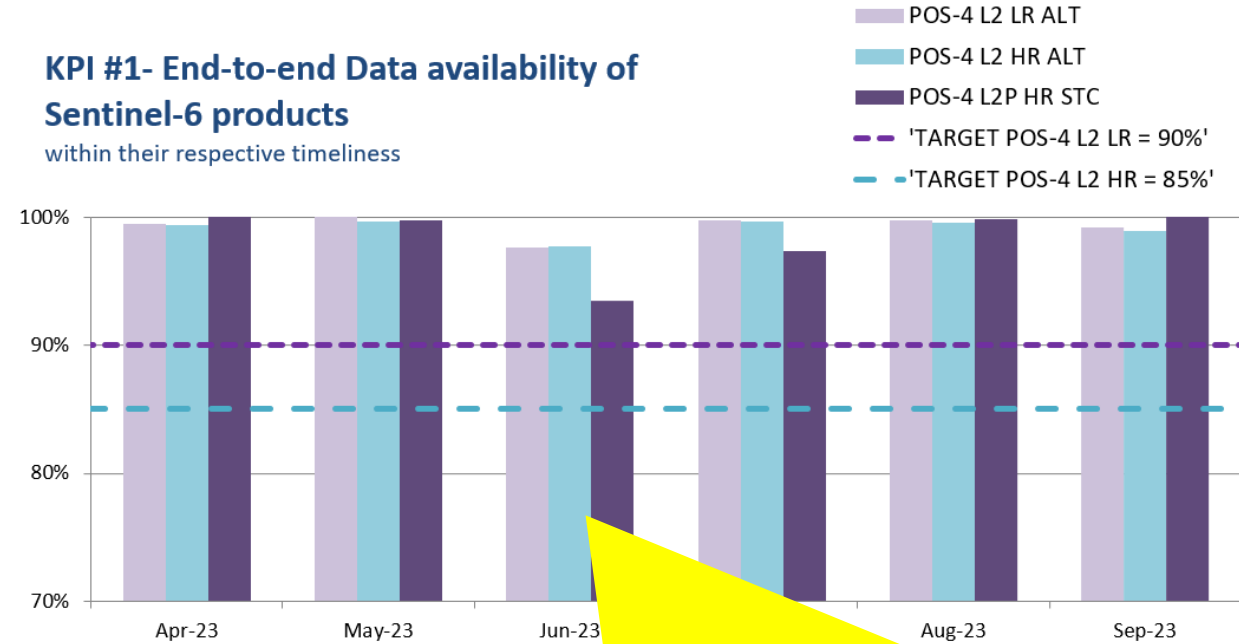
Sentinel-6 Michael Freilich - Space Segment and services availability

KPI #3- Relative availability of S6 space segment

■ GNSS-RO (target=99%) ■ AMR (target = 99.5%) ■ HRMR (no target)
 ▨ GNSS-POD (target=99.5%) ▨ DORIS (target=99.5%) ■ POS-4 (target = 99%)



KPI #1- End-to-end Data availability of Sentinel-6 products within their respective timeliness



- ✓ Mission and service available
- ✓ Second Mission Performance
- ✓ Open access for all data
- ✓ Transition to EUMETSAT historic data (to be completed in the next weeks)

- 03 Jun: FB accidental power cut (4 passes lost)
- 13 Jun: FB repair (3 passes affected)
- Jun-03 Jul: FB network issues
- 24 Jun – 02 Jul: Missing SSALTO aux files affecting STC



• Regular Altimetry reprocessing

- 1st reprocessing released in July 2022 brought all data in line (F06 baseline)
- 2nd reprocessing using F08 baseline (available on DataStore since July 2023)
- Recovered some missing data; distributed data not earlier available to general users

F00	F01	F02	F03	F04	F05	F06	F07	F08	F09
004-012	013-016	017-024	025-033	034-045	046-053	054-064	065-082	083-	Q1 2024

F06 Reprocessing

F08 Reprocessing (available on EUM Data Store)

CHDR
update

POE
updates

HR:
reduced
number
of looks

MOGF;
Echo-Cal;
AMR-C v4

LR:
numerical
retracking
added

HRMR in
ALT L2;
HR: range
walk+NR;
VWM corr

Cycle numbers are those of NTC data

- RO Reprocessing planned for Q4/2023



- ✓ RMCC Successful on-site activation 9 to 10 May 2023
- ✓ POS-4 Open-Loop Tracking Command (OLTC) table updated from 03 to 10 May
 - Update of the elevation command for about 5% of the hydrological targets and new transponder sites.
- ✓ PDP v3.7.0 (Baseline F08) deployed on the OPE - 9 Mar 23:
 - LR numerical retracking added for even better long-term consistency
 - Triggered full-mission reprocessing completed in Q2 2023.



What is coming up for Sentinel-6 Michael Freilich?

- ❑ RMCC on-site activation 06 - 09 Oct 2023
- ❑ Mission Performance Review #2 – 16 Nov 2023
- ❑ Migration from the S6 Data Lake System to the EDL/DataStore – Q4 2023

- ❑ PDP v 3.8 (RHEL 8 OS migration) deployment to OPE – 24/25 Oct 2023
- ❑ PDP v 3.8.0 (Baseline F09) - Q1 2024
 - Numerical Re-tracking for HR in L2
 - Range Walk in L1
 - Addition of HRMR variables in ALT L2
 - Vertical Wave Motion (VWM) corrections in L2

- ❑ RO NTC Processor Update to V3.7.6 – 26 Oct 2024
 - Preparation of OPE Processor to ignore Galileo Data in Level 0 GNSS-RO Observation
- ❑ RO NTC Processor Update to V4.0 – Q4 2023/Q1 2024
 - allow processing of Galileo occultations



What's the DataStore ?

- No more FTP!
 - EUMETSAT is going to decommission the special rolling archive available through FTP
- Various ways to search and download
 - Graphical interface for those who like to click
 - Command line tool (eumdac) for the likes of me 😊
 - Python library for getting data on-demand through API
- Experience it now!
 - Sentinel-6 F08 reprocessed data and Sentinel-3 SRAL BC005 reprocessed data is already available on the DataStore
 - Sentinel-3 SRAL data goes there operationally already
 - Read more at <https://www.eumetsat.int/eumetsat-data-store>



Thank you!

Questions are welcome

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On behalf of the EUMETSAT
RSP Altimeter Team