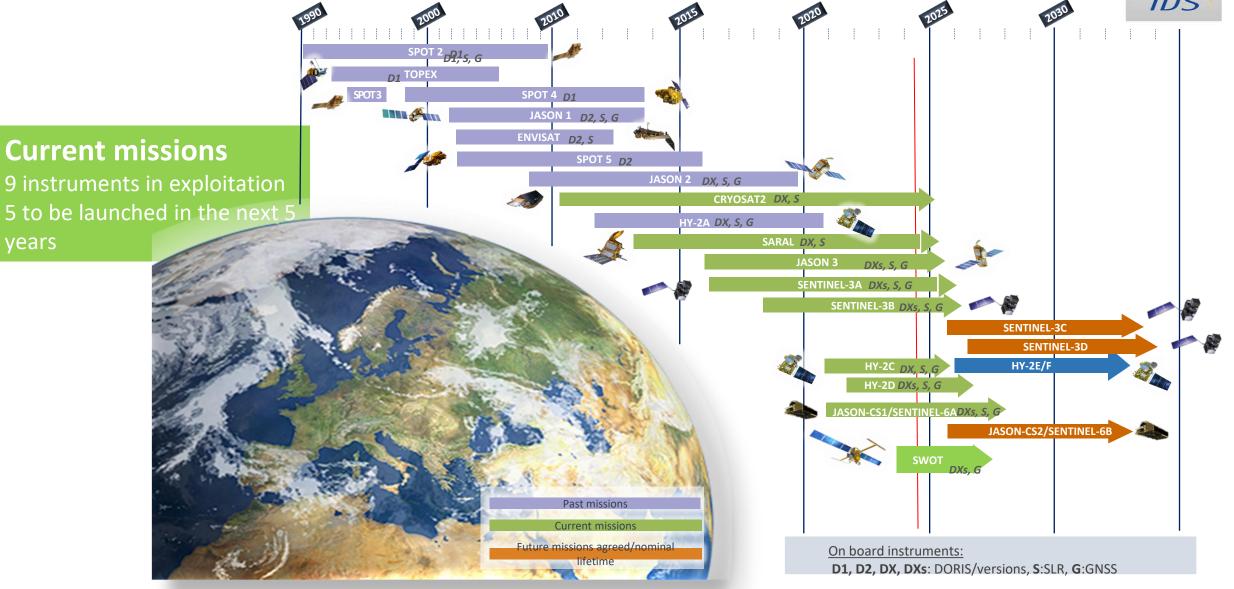
IDS report for IERS DB meeting, 15. November 2024, online

Contributors: Petr Štěpánek, Jerome Saunier, Cécille Manfredi, Laurent Soudarin, Guilhem Moreaux









11/15/2024

Future missions

• GENESIS

DORIS/GENESIS

DGXX-SEV model

Procurement supported by CNES

Preliminary technical analyses carried out at CNES DORIS laboratory

Schedule : Phase A, 6 months from the end of 2024

Manufacturing, 18 months

• Sentinel6C

Data continuity with Jason/Sentinel6A&B Same organization as Sentinel6A&B : Airbus DS GmBh prime contractor Launch around 2030

• Sentinel3 NG Topo

2 satellites for ESA Copernicus Program Strong heritage from SWOT altimeter 2 DORIS instruments supplied by CNES (TBC) Launch around 2032

• HY2 G & H

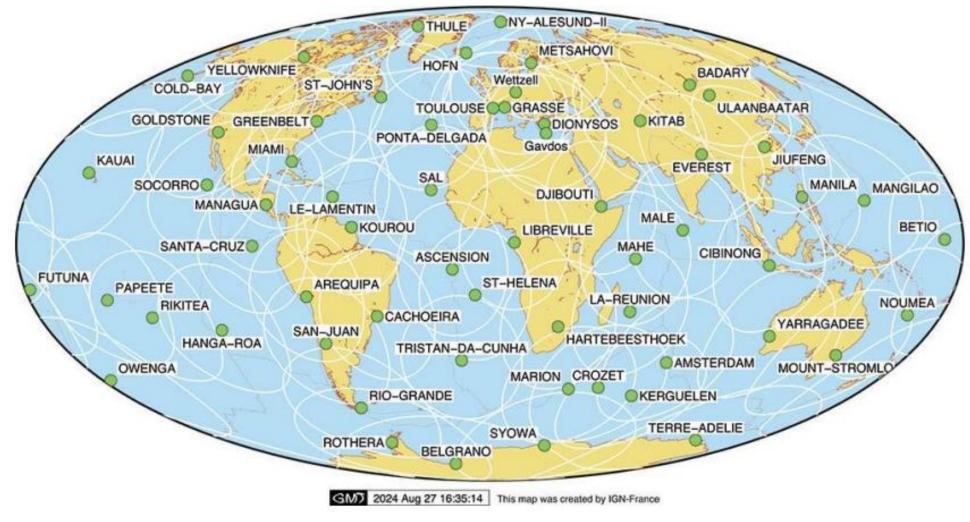
NSOAS confirmed its altimetry constellation HY2



DORIS Network

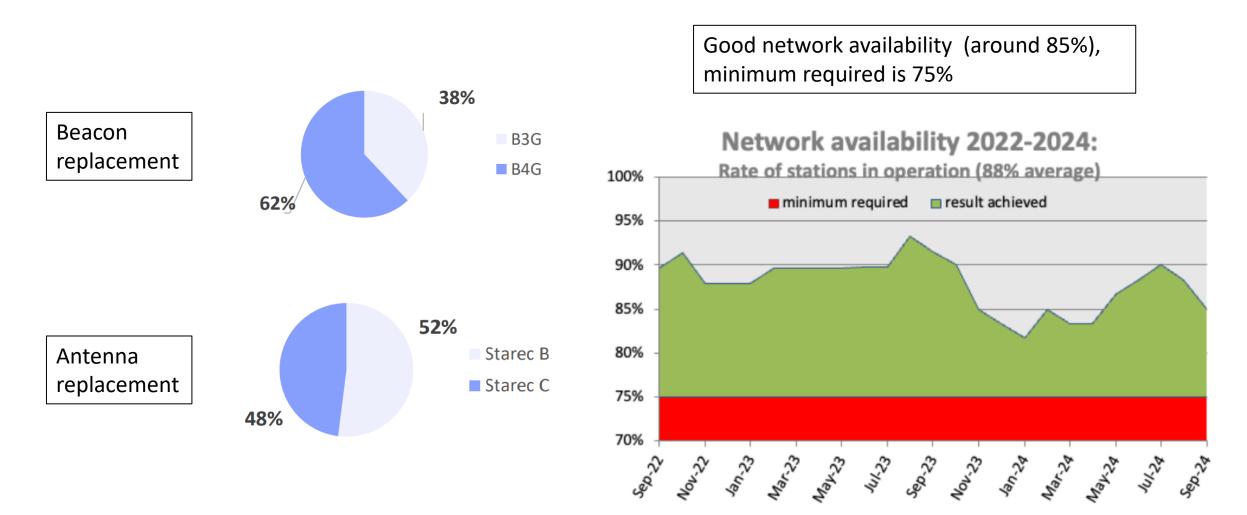


85% Low-Earth Orbit coverage (800km) 97% coverage at 1300km altitude



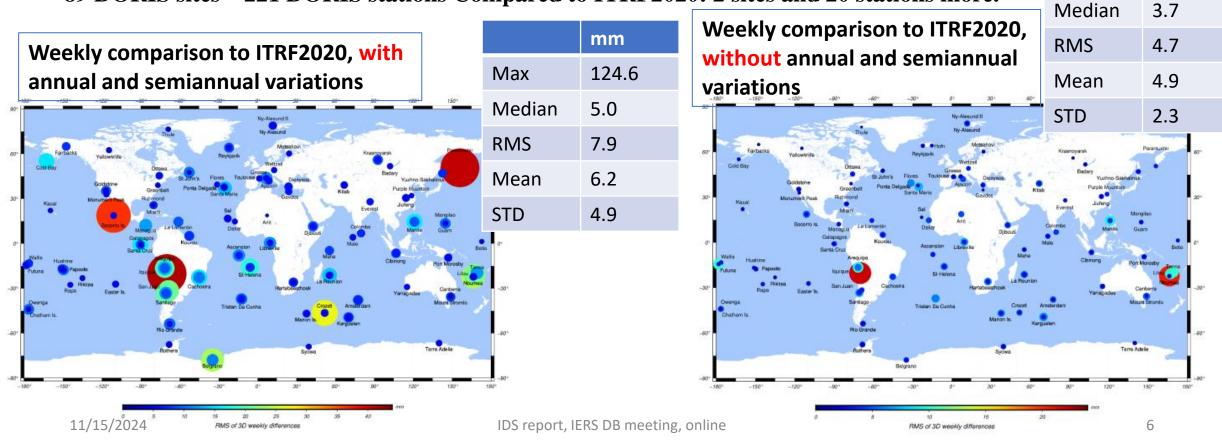
DORIS Network (2)





DPOD2020 v 3.0

- DPOD is a set of coordinates and velocities for DORIS POD
- Time span: 1993.0-2024.0.
- IDS series: 19+23 (ESA16+GOP70+GRG54+GSC56+IGN16)
- Includes estimation of annual, semi-annual, 118 and 59-day signals.
- New: periodic signals are estimated for for sites with observations after mid-2002.
- Includes DORIS Post-Seismic Deformation corrections for Socorro and Goldstone
- 89 DORIS sites 221 DORIS stations Compared to ITRF2020: 2 sites and 20 stations more.





mm

39.6

Max

IDS News



- Cécile Manfredi is the new IDS representative of the DORIS system and a member of the Central Bureau
- Elections in Autumn for Data Centers' representative, Analysis Centers' representative and one Member-at-large (preliminary steps have been initiated)
- New Working Group "Integrated Clock Corrections for DORIS"; Chair: Patrick Schreiner (GFZ)
- New Working Group being set up "NRT ionospheric application"; Chair: Ningbo Wang (AIR/CAS)
- ESA Genesis Working Group DORIS: chair Guilhem Moreaux with DORIS experts and IDS members
- NRT data (RINEX DORIS data and DIODE orbits) of 7 missions are available now
- SWOT quaternions and solar panel angles soon available in a fitted format
- IDS activity report 2023 just released https://ids-doris.org/ids/reports-mails/governingboard/ids-activity-report-2023.html
- IDS Workshop in Monpellier (France), 4.-5. September 2024. Presentations online https://idsdoris.org/ids/reports-mails/meeting-presentations.html

Analysis coordination



- AWG meetings typically twice per year (one online + one onsite/hybrid)
- 6 ACs, 4 AACs, 1 CC (combination center)

Name	Center	Location	Contact	Software	Multi-technique
ESA	AC	Germany	Michiel Otten	NAPEOS	SLR, GNSS
GOP (Geodetic	AC	Czech Republic	Petr Stepanek	Bernese	
Observatory Pecny)					
GRG (GRGS)	AC	France	Hugues Capdeville	GINS	SLR, GNSS
GSC (NASA/GSFC)	AC	USA	Frank Lemoine	GEODYN	SLR
IGN	AC	France	Samuel Nahmani,	GIPSY	
			Arnaud Pollet		
INA (Inasan)	AC	Russia	Sergei Kuzin	GIPSY	
CNES/POD	AAC	France	Alexandre Couhert	Zoom	SLR, GNSS
GFZ	AAC	Germany	Patrick Schreiner	EPOS-OC	SLR, GNSS
TU Delft	AAC	Netherlands	Ernst Schrama	GEODYN	SLR
DGFI-TUM	AAC	Germany	Mathis Bloßfeld, Sergei Rudenko	DOGS	SLR

Thank you for your attention

