DORIS MISSIONS & System NEWS

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IDS AWG- Munich April 4th, 2019

DORIS CURRENT MISSIONS

Today 7 satellites / 14 missions have contributed to IDS since 1990

- SENTINEL 3B (GMES) : 814km, 98.6° April 25th 2018 ➔2026 (DGXXS+LRA+GPS)
- SENTINEL 3A (GMES) : 814km, 98.6° Feb. 16th 2016 ➔2024 (DGXXS+LRA+GPS)
- JASON3 (Eumetsat/NOAA/NASA/CNES) : 1336 km, 66° January 17th 2016 ➔ 2022(DGXXS+LRA+GPS)
- SARAL (CNES/ISRO): 800km, 98.5° February 2013 → end 2021 (DGXX+LRA)
- HY2-A (CNSA, NSOAS): 960km, 99° August 2011 → 2019+ (DGXX+LRA+GPS)
- CRYOSAT-2 (ESA): 717 km, 92° April 2010 → end 2020 (DGXX + LRA)
- JASON2 (**Eumetsat/NOAA/NASA/CNES**): 1336 km, 66° June 2008 → 2019 (DGXX+LRA+GPS)

Future missions (…up to 2032)

- HY2-C (NSOAS) : 958km — December 2019
  DORIS DGXX-S with USO NG(1)
- HY2-D — October 2020
  DORIS DGXX-S with mini USO NG(2)
- *HY2E-F-G-H : (DORIS not confirmed)*
- Sentinel 3C, 3D (ESA/Eumetsat/CNES) : 814km — Dec2024, 2025 (7 years)
  DORIS DGXX-S with mini USO(2)
- JASON-CSA&B/ SENTINEL 6A, 6B : 1336km — Oct. 2020, 2025 (7 years)
  (ESA/Eumetsat/EU/Cnes/Noaa/Nasa)
  DORIS DGXX-S with mini USO(2)
- SWOT (Cnes/Nasa/CSA/UKSA) : 970km, 78° — 2021 (3 years)
  - DORIS DGXX-S with USO NG(1)

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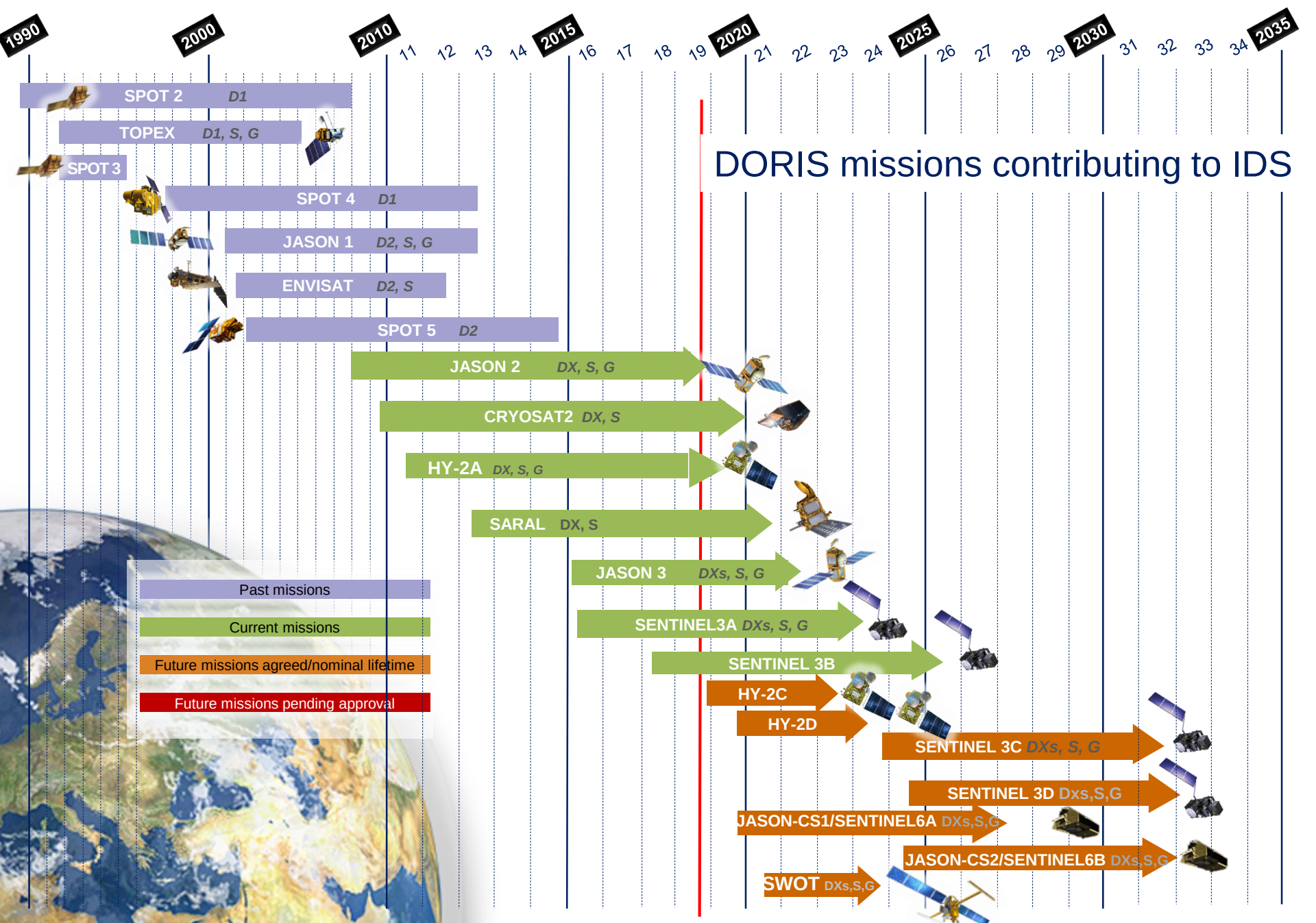
(1) :DGXX-S with USO NG: same USO as Ja2/3, Cs2, Srl, HY2A, S3a/b

(2): DGXX-S with mini USO : new USO: same specs, smaller, new components.

DORIS missions contributing to IDS



On board instruments:

D1, D2, DX, DXs: DORIS/versions, **S**:SLR, **G**:GNSS

Beacon B4G deployement / STAREC D antenna

- **B4G deployment**:

✓ April 2019: start of beacons B4G deliveries
  - ✓ 2019: 20 B4G will be delivered,
  - ✓ 2020: 25 or 24 beacons
  - ✓ 2021: 24 or 25 beacons

- 3 B4G already installed :
  - pre-series B4G in Grasse, after some qualification tests, station operational since August.
  - St Johns (mid-June)
  - Ponta Delgada (end of July)

- next: by the end of 2019:
  - St Helene
  - Crozet,
  - Greenbelt

- **STAREC D**: st johns since mid-June: phase law and documentation on line

Service International DORIS

http://ids-doris.org

www.cnes.fr