

DORIS missions updates



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Today 5 satellites contribute to IDS



SARAL (CNES/ISRO): 800km, 98.5°

February 2013 → 2018 (DGXX+LR)

HY2-A (CNSA, NSOAS): 960km, 99°

August 2011 → mid 2014(DGXX+LRA+GPS)

CRYOSAT-2 (ESA): 717 km, 92°

April 2010 \rightarrow end 2017 (DGXX + LRA)

JASON2 (NASA/CNES): 1336 km, 66°

June 2008 \rightarrow 2017 (DGXX+LRA+GPS)

■ SPOT5 (CNES): 830 km, 98°

May 2002 → mid 2015 (DGM)

At least 6 Future missions



SENTINEL3A (GMES) : 814km, 98.6°

mid 2015 (7.5 years + 5)

Sentinel 3B:

2018

JASON-3 (Eumetsat/NOAA/NASA/CNES) : 1336 km, 66°

mid <u>2015</u> (5 years)

HY2B*, C*, D*

???? (3 years)

JASON-CS (Eumetsat/NOAA): 1336 km, 66°

end <u>2020</u> (7 years)

Jason-CS (B):

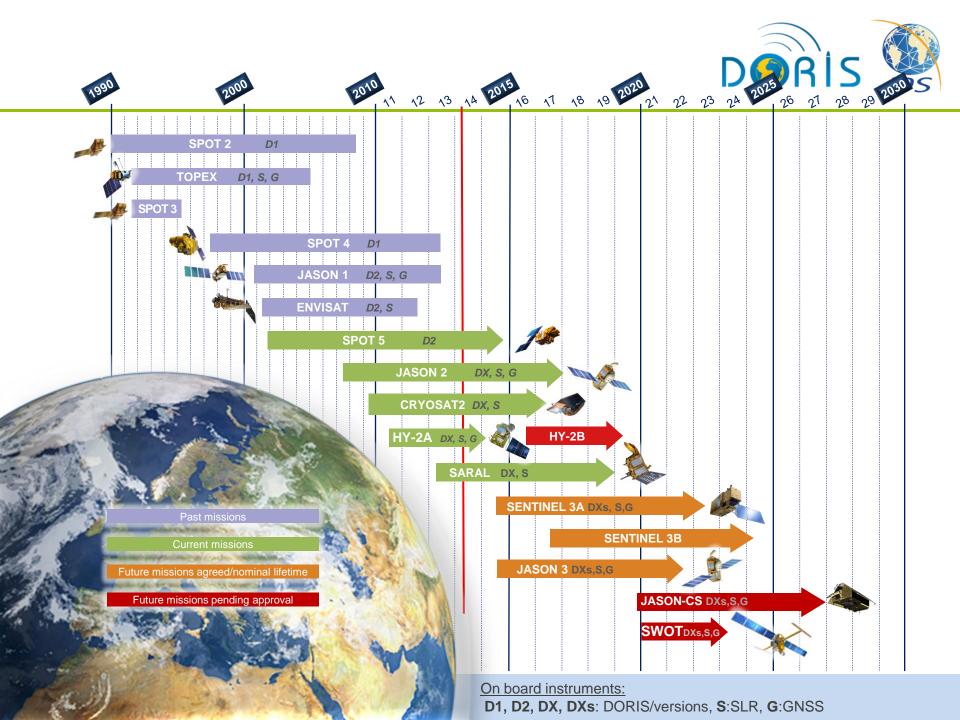
2022 (7 years)

SWOT* (NASA/CNES) : 970km, 78°

post <u>2020</u> (3 years)

NB: DORIS DATA: only RINEX format for the future missions

^{*} Mission pending approval



IDS stations



sites for IDS stations

Current priority: 1 Mashall Island, 2 west indies (Antilles), 3 Korea

• Question about Gavdos:

- most people are in favor of moving the station.
- Gavdos is an IDS station → will be replaced by an IDS station.

■ → 3 new IDS sites can be considered:

- 2 beacons aside for IDS sites,
- + Gavdos replacement
- First installation = replacement of Gavdos

IDS Stations



Purpose / site candidates

- altimeter Calibration (replacement of Gavdos)→ CDN1 (Island of Crete) but isolated on a mountain ridge (alt. 1000m) with no power supply.
- **IDS objectives**: (co-location with other geodetic techniques, with a view to GGOS, tide gauge colocation and not supported by other techniques...):
 - Marshall Island (couverture+) ,
 - Korea (GGOS? AC?),
 - Wettzell (GGOS),
 - Hertmonceux (GGOS),
 - Nigeria-Toro close to Libreville (GGOS, GNSS, AC IDS?)
 - Falklands /Port Stanley (improve south atlantic coverage+, IGS)
 - South Georgia /King Edward Point (south Atlantique, tide gauge)