



# IDS news

**data, products, documentation, information**

<http://ids-doris.org/about-doris-rinex-format.html>

- Format description
- About RINEX/DORIS data processing
- Routines to read DORIS/RINEX files
- Data archive and naming conventions
- Publication
- Presentations (in chronological order)

#### Analysis coordination

Presentation

Combination »

Documents related to data  
analysis

Analysis related events

Discussion

Software

About DORIS/RINEX format

**Reminder:**

**PANDOR works on a sliding window of 4 days. If one day is missing, RINEX using that day won't be produced.**

■ **HY-2A**

**satellite moved from its nominal orbit (14-day cycle) to a geodetic orbit (2 km higher, 168-day cycle with 2315 orbits in the full cycle)**

**No data from 2016/03/15 23:38:24 TAI to 2016/03/24 10:05:00 TAI**

**→ Data gap in RINEX: 2016/03/16 to 2016/03/26 (11 days)**

■ **Jason-3**

**Onboard GPS software upgrade.**

**No data from 2016/03/15 07:10:36 TAI to 2016/03/17 07:54:36 TAI**

**→ Data gap in RINEX: 2016/03/15 – 2016/03/18 (4 days)**

■ **Jason-2**

**Onboard GPS software upgrade.**

**No data from 2016/04/05 13:30:36 TAI to 2016/04/06 13:52:36 TAI**

**→ No data gap in RINEX**

- Solar Array Position Angle: erroneous for cycle 1-4
- “At the beginning, these files were not provided in operation with the good parameters (POSTARGR/ POSTARGL and not POSSADMR/POSSADML), and were not archived...

Finally we managed to get manually the good data from 2008/06/20 to 2008/08/22 (covering cycles 1-4), they are gathered in a unique file, instead of many files (1 file every 36 hours), which remains consistent with the format description <http://ids-doris.org/data-products/tables-of-data-products.html> “

- File provided for tests to GSFC
- old incorrect files will be replaced at DCs by a unique file  
ja2qsolp\_20080620000000\_20080823000000.7z



# Mass and gravity center initial values recommended by IDS



- C\*IDS recommended initial values of mass and center of gravity coordinates in satellite reference frame
- C\*-----
- C\*-reference document for information and history of changes: <ftp://ftp.ids-doris.org/pub/ids/satellites/DORISSatelliteModels.pdf>
- C\*-content:
- C\* satellite 3-letter code
- C\* satellite mass (kg)
- C\* Xo (m)
- C\* Yo (m)
- C\* Zo (m)
- C\* date of update (yyyy/mm/dd)
- C\* source (ini = initial value from manufacturer given before launch; ssa = value provided by CNES/POD (SSALTO) after launch; and potentially some others)
- C\* comments :
- C\*(1)Manufacturer's values replaced by CNES/POD values in ja1mass.txt too; See reference document for previous values
- C\*(2)Thess values are applied for the correction "center of mass - center of phase" in SARAL doris 2.2 data files from srldata087.001 (06-Nov-2014 12-Nov-2014); See reference document for previous values
- C\*-----
- sp2 1864.000 -1.6120 +0.0090 +0.0250 1990/01/22 ini
- tpx 2419.300 0.0000 0.0000 0.0000 1992/08/10 ini
- sp3 1875.200 0.0000 0.0000 0.0000 1993/09/26 ssa
- sp4 2753.960 -1.9010 +0.0080 +0.0590 1998/03/24 ini
- ja1 489.100 +0.9550 0.0000 0.0000 2014/04/17 ssa (1)
- en1 8106.400 -4.3650 -0.0020 -0.0390 2002/04/01 ini
- sp5 3056.000 -1.9810 -0.0030 -0.0010 2002/05/04 ini
- ja2 505.900 +0.9768 +0.0001 +0.0011 2008/06/20 ini
- cs2 724.600 +1.6312 +0.0112 +0.0137 2010/04/08 ini
- h2a 1550.000 +1.2464 0.0000 +0.0008 2011/08/15 ini
- srl 408.600 -0.0113 -0.0067 -0.6105 2014/11/06 ssa (2)
- ja3 509.600 +1.0023 0.0000 -0.0021 2016/01/17 ini
- s3a 1130.000 +1.4888 +0.2174 +0.0094 2016/02/16 ini

<ftp://ftp.ids-doris.org/pub/ids/satellites/MassCoGInitialValues.txt>

(or via IDS website: Home > Documents related to data analysis )

- CNES POE in GDR-E standards

**Complete series for current missions CS2, SRL, JA2 , JA3, S3A+ JA1  
(version number VV=10)**

**Previous series in sub-directories ./GDR-C, ./GDR-D**

**HY2-A in GDR-D standards**



## **New CDDIS Data Upload Procedures**



- **current ftp upload procedures will NO longer be supported in CDDIS's new production environment**
- **New procedure: a http/https based solution with both a command line option and web interface**
- **Mid-April to end of June:**  
**early testing opportunity open to only a select number of suppliers**
- **full production commences in early summer 2016.**



## New files on IDS ftp



- Mass and gravity center initial values recommended by IDS

<ftp://ftp.ids-doris.org/pub/ids/satellites/MassCoGInitialValues.txt>

- New version of « DORIS satellites models implemented in POE processing » including Jason-3 and Sentinel-3a

<ftp://ftp.ids-doris.org/pub/ids/satellites/DORISSatelliteModels.pdf>

- New files ja3att.txt, ja3man.txt, ja3mass.txt in

<ftp://ftp.ids-doris.org/pub/ids/satellites/>

- Added time frames when nominal attitude law off for Cryosat-2 in the document

[ftp://ftp.ids-doris.org/pub/ids/ancillary/quaternions/cryosat2\\_quaternions\\_TUdelft\\_description.pdf](ftp://ftp.ids-doris.org/pub/ids/ancillary/quaternions/cryosat2_quaternions_TUdelft_description.pdf)

(source E.J.O Schrama)



# DORIS IDS Newsletter #1



- The premiere issue features the new station in Goldstone, the new receivers onboard Jason-3 and Sentinel-3A, the IDS contribution to ITRF2014.

Next issue in July

→ Send your material at any time to the IDS Central Bureau

<http://ids-doris.org/report/newsletter.html>

See also [“Home](#) > Documents related to data analysis”

- 1993 DORIS Newsletter [issue #4](#) (pdf, 6.8 Mb)
- 1992 DORIS Newsletter [issue #3](#) (pdf, 6.7 Mb)
- 1991 DORIS Newsletter [issue #2](#) (pdf, 7.0 Mb)
- 1990 DORIS Newsletter [issue #1](#) (pdf, 7.4 Mb)

Users NEWSLETTER #1 April 2016

## Editorial

This is the first issue of the Newsletter of the international DORIS Service. The intention is to improve the flow of information within the community of providers and users of DORIS data and products, to highlight the activities of the groups participating in the IDS, and to bring the DORIS and IDS news to a wider audience, from the host agencies to the other sister services. We plan to provide regular information on the DORIS system, in particular the evolution of the space and ground segments, and the life of IDS, such as news from the service's components, meetings, analysis activities, results. Everybody is encouraged and invited to contribute to the Newsletter on any topic considered of important interest for the community. Send your material at any time to the IDS Central Bureau.

We hope you enjoy reading the IDS Newsletter and that it stimulates your interest in the data, products and applications of the DORIS system.

## A high performing network

Jérôme Saunier (IGN)

DORIS provides a reliable service in 2015 with a network availability maintained over 85% of operating stations thanks to the joint effort of CNES, IGN and all agencies hosting the stations.

The network availability rate is expressed as a percentage of operating ground network stations. It is far above the 75% line, which is the minimum CNES target to ensuring a good performance of the DORIS system.

(Data courtesy of CNES)

## DORIS missions



### Information

A table containing all major information can be found [here](#).

The DORIS satellites list				
Name	Cospar	Launch	Mission End	Video
SENTINEL-3A	1601101	2016-02-16	-	
JASON-3	1600201	2016-01-17	-	
SARAL	1300901	2013-02-25	-	<a href="#">▶</a>
HY-2A	1104301	2011-08-15	-	<a href="#">▶</a>
CRYOSAT-2	1001301	2010-04-08	-	<a href="#">▶</a>

## Visualization

- Watch videos of the DORIS-equipped satellites in orbit available on the [IDS video channel](#).
- The videos have been created with the Visualization Tool for Space Data (VTS), a free software from [CNES](#), the French space agency. Download VTS for free from the [VTS website](#).
- Use VTS with predefined scenarios for the DORIS missions available on the [IDS ftp site](#) to animate the satellites in 2D or 3D environments (minimum version required is VTS 2.7).
- You can develop your own animations with the product files archived on the [IDS Data Centers \(CDDIS, IGN\)](#):
  - orbits (directory [products/orbits/](#))
  - quaternions (directory [ancillary/quaternions/](#))

**Note:** IDS product files must be converted in VTS specific format (see VTS documentation).

# DORIS IDS video channel



Rechercher



Mettre en ligne

Connexion



International DORIS Service - IDS -

S'abonner 0

Accueil

Vidéos

Playlists

Chaînes

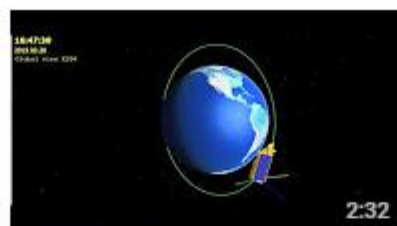
À propos





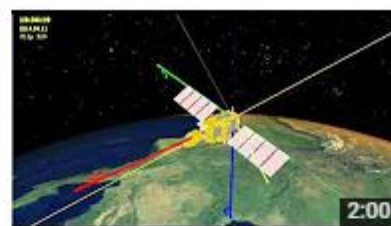
**ENVISAT**

84 vues • il y a 1 mois



**CRYOSAT-2**

103 vues • il y a 1 mois



**Jason-2: Yaw-Flip**

66 vues • il y a 1 mois



**ENVISAT**

11 vues • il y a 1 mois



**HY-2A**

60 vues • il y a 1 mois



**SARAL**

58 vues • il y a 1 mois



**SPOT-5**

56 vues • il y a 1 mois



**Jason-2: Ramp-Up and Yaw Steering**

57 vues • il y a 1 mois



**DORIS Constellation 2016**

151 vues • il y a 1 mois



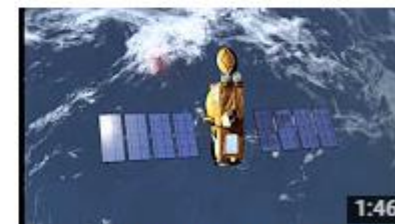
**DORIS, the space surveyor**

57 vues • il y a 4 mois



**DORIS, network of stations**

41 vues • il y a 4 mois



**DORIS, autonomous navigation**

56 vues • il y a 4 mois

# DORIS Table of events



- ALL
- STATION
- SYSTEM
- EARTHQUAKE
- DATA

Date	Type	Element	Event	Source
2012/12/21 22:33:50	system	SPOT-4	[on board] Orbit Maintenance Maneuver (end : 2012/12/21 23:24:52 TAI), all data available	SSALTO
2012/12/19 17:21:59	system	JASON-2	[on board] Orbit Maintenance Maneuver (end : 2012/12/19 17:22:50 TAI), all data available	SSALTO
2012/12/18 18:05:45	system	SPOT-4	[on board] Orbit Maintenance Maneuver (end : 2012/12/18 18:56:44 TAI), all data available	SSALTO
2012/12/17 00:00:00	station	[GRASSE] GR3B 10002S018	data gap (software problem) START	dorisstations 0075
2012/12/14 10:36:00	earthquake	[MONUMENT-PEAK] MOOB 40497S009	Magnitude:6.3 Distance:365km	USGS (NEW)
2012/12/07 00:00:00	station	[MAHE] MAIB 39801S006	MAIB START	dorismail 0867
2012/12/06 00:00:00	station	[MAHE] MAHB 39801S005	MAHB END	dorismail 0867
2012/12/05 00:50:29	system	HY-2A	[on board] Orbit Maintenance Maneuver (end : 2012/12/05 02:50:41 TAI), all data available	SSALTO
2012/12/04 00:00:00	data	SPOT-5	value of the additional of the Solar Array Pitch: +36.8 deg	

- References of the papers accepted for ASR's DORIS special issue at:

<http://ids-doris.org/report/publications/peer-reviewed-journals.html>

(Home > Reports & Mails > DORIS bibliography > Peer-reviewed journals )

# **DORIS IDS Activity report 2015**



- **Almost all the contributions received. Thanks!**
- **Report will be printed in June or July**

**IDS Workshop:**

**La Rochelle, France, 31 October - 01 November 2016**

Website for logistical information, abstract submission

<http://www.ostst-altimetry-2016.com>

Or via IDS website:

<http://ids-doris.org/report/meeting-presentations/ids-workshop-2016.html>



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## Deadlines

**Call for Papers**

04 April 2016

**Registration/hotel booking site open**

Beginning of May 2016

**2nd Announcement**

01 June 2016

**Receipt of abstracts**

15 July 2016

**Notification to authors**

Mid September 2016

**Final programme on line**

30 September 2016

**Increase in registration fee**

07 October 2016

**Conference**

31 October – 4 November 2016