

IDS news

- **IDS life: latest news**
- **Data/products/documents**
- **Website/Webservice**
- **Outreach**

Elections 2018



2 positions renewed within the Governing Board for 2019-2022:

- **Analysis coordinator**

- new tandem: Hugues Capdeville & Petr Stepanek

- **Member-at-large**

- Claudio Abbondanza succeeds to Marek Ziebart

IAG representative to be designed by IAG EC

IDS retreat & Strategic plan



- June 13 & 14, 2018: IDS retreat

- September 2018: GB Meeting in Paris

debriefing of the Retreat, finalization of the minutes and discussions about the strategic plan.

Next steps:

- April – Sep. : 1 or 2 GB telecons to elaborate a preliminary IDS strategic plan
- Sep. or Oct. 2019: consultation with the DORIS system stakeholders (meeting of CNES & IGN DORIS steering committee)
- Then: strategic plan with medium and long term actions

IDS activity report 2018



- Introduction (Central Bureau)
- History (Central Bureau)
- Organization (Central Bureau)
- Network (J. Saunier)
- Satellites (P. Ferrage)
- Central Bureau (Central Bureau)
- Data Flow Coordination (C. Noll/P. Michael)
- CDDIS Data Center (C. Noll/P. Michael)
- IGN Data Center (B. Garayt)
- Analysis Coordination (H. Capdeville and J.M. Lemoine)
- Combination Center (G. Moreaux)

Extended deadline: ~~March~~ 15 → April 19

Analysis Centers:

CNES/CLS (H. Capdeville)
ESA/ESOC (M. Otten)
Geodetic Observatory of Pecny (P. Stepanek)
IGN/IPGP (P. Willis)
INASAN (S. Kuzin) → OK
NASA/GSFC (F. Lemoine)

Associated Analysis Centers:

GFZ (R. Koenig) → OK
SOD (A. Couhert) → not this year
TU Delft (E. Schrama)

Working Group:

NRT DORIS data (D. Dettmering) → OK

Next IDS events



- **AWG meetings: +1 in 2019, 1 or 2 in 2020 → TBD**
- **IDS Workshop 2020 in conjunction with OSTST meeting,
October 12-16, Darmstadt, Germany
organized by EUMETSAT in the frame of Jason-CS launch preparation**

DORIS will turn 30 years in February 2020 !!!

Products: New **POE-F** orbit standards



■ Documentation

CNES's presentation in POD session at OSTST 2018 https://meetings.aviso.altimetry.fr/fileadmin/user_upload/POD_01_Moyard.pdf

Detailed standards: ftp://ftp.ids-doris.org/pub/ids/data/POD_configuration_POEF.pdf

(or via IDS web: Analysis coordination > Documents for the data analysis)

■ Switchs to POE-F standards

- **Jason-3 (Sep.6 2018), Sentinel-3A & Sentinel-3B (Nov. 10, 2018) → whole series available**
- **Saral (Dec. 9, 2018)** (reprocessing of the whole series in progress)
- Jason-2 and Cryosat-2: planned this year with complete reprocessing
- HY-2A later but without reprocessing.
- Topex/Poseidon reprocessing in progress
- Jason-1 and Envisat: reprocessing not planned so far
- Spot satellite orbits will not be reprocessed.

■ File names

POE orbit files in sp3c format from CNES (SSALTO → « **ssa** »)

The corresponding version for POE-F is numbered **20**

Stored at IDS DCs as : **/pub/doris/products/ssa/<sss>/ssa<sss>20.bXXDDD.eYYYYE.DG_.sp3.LLL.Z**
where <sss> = ja3, s3a, s3b, ...

Data: Jason-1 and Spot-5 SAA-corrected



New archive folders at IDS DCs for DORIS 2.2 SAA-corrected data of Jason-1 and SPOT-5.
Previously in pub/doris/campdata/saacorrection/

Now in pub/doris/data/ja1/saacorrection/
 pub/doris/data/sp5/saacorrection/

→ Recommended for ITRF2020 reprocessing

The data are provided by the CNES/CLS Analysis Center.
The correction included in the data are based on frequency corrective models (Capdeville and Lemoine).

pub/doris/data/ja1/
(CNES/SSALTO data files; **without** SAA correction)
 saacorrection/
 (CNES/CLS AC data files; **WITH** SAA correction)
pub/doris/data/sp5/
(CNES/SSALTO data files; **without** SAA correction)
 saacorrection/
 (CNES/CLS AC data files; **WITH** SAA correction)

Note that the main folders
pub/doris/data/ja1 and
pub/doris/data/sp5
contain the data provided by
CNES SSALTO (official
provider of DORIS data)

Novelties



- Version #3 of **DPOD2014**

<https://ids-doris.org/analysis-coordination/combination/dpod.html>

- New DORIS **SINEX Master file**, including codes, DOMES and geographic positions of all the DORIS stations, type and eccentricity of the antennas

<ftp://ftp.ids-doris.org/pub/ids/stations/ids.snz> (recommended by CC to ACs for headers of SINEX solutions)

- New version of the file **tie vectors** from DORIS to other techniques

ftp://ftp.ids-doris.org/pub/ids/stations/DORIS_ext_ties.txt

- New document "**Jason-3 characteristics for POD processing**"

ftp://ftp.ids-doris.org/pub/ids/satellites/Jason-3_CharacteristicsForPODprocessing.pdf

- Updated version of the document **satellite macromodels** implemented in CNES POE processing :

- update on Sentinel-3A and Saral DORIS Center of Phase locations

- update on Jason2 and Jason3 attitude laws and a new Appendix 0 with DORIS phase center updates adopted at CNES


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

Novelties



- new **sitelogs** (MLAC, RISC, ROXC, SJUC, SVAC, WEUC) <https://ids-doris.org/network/sitelogs.html>
- new **maps** <https://ids-doris.org/network/maps.html>
- new **pictures** <https://ids-doris.org/ids/gallery.html>
- new **references** in the list of articles related to DORIS in international peer-reviewed journals
<https://ids-doris.org/report/publications/peer-reviewed-journals.html>
- new page "IDS > Documentation > **Outreach material**" (videos, leaflets, newsletters)
<https://ids-doris.org/ids/reports-mails/outreach-material.html>

Find the novelties in the sections
“What’s news on IDS”,
“What’s new on DORIS”,
“Site upates”
on the home page of the website

**International
DORIS
Service**

IDS ▾ DORIS SYSTEM ▾ ANALYSIS COORDINATION ▾ WEB SERVICE ▾

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Acknowledge IDS

Whenever you use IDS data, products, or results in a publication, please include a proper **citation**.

Survey

Please give your opinion about the service quality by **filling in the IDS survey form**

WHAT'S NEW ON IDS

IDS - February 2019
IDS Newsletter #6 is published (dorismail 1174) It is with profound sadness that we must announce to you the passing of...

IDS - December 2018
IDS election results to fill the two vacancies in the IDS Governing Board (see dorismail 1155) Current status of the ...

[Previous news on IDS](#)

WHAT'S NEW ON DORIS

DORIS - March 2019
SARAL/AltiKa satellite has been encountered some issues with the Star trackers affecting the nadir pointing accuracy...

DORIS - February 2019
New version of the file **tie vectors from DORIS to other techniques** (see dorismail 1173). Also reachable through the ...

[Previous news on DORIS](#)

SITE UPDATES

Site Updates - February 2019
Added 6 new or updated **sitelogs** (MLAC, RISC, ROXC, SJUC, SVAC, WEUC) Updated version of the document **satellite**...

Site Updates - January 2019
Added pictures in the Sitelogs pages for **Terre Adélie**, **Mangilao** (+ obstruction view), **Rio Grande**, **Rothera** (+...

Webservice: new features 2018



<https://ids-doris.org/webservice>

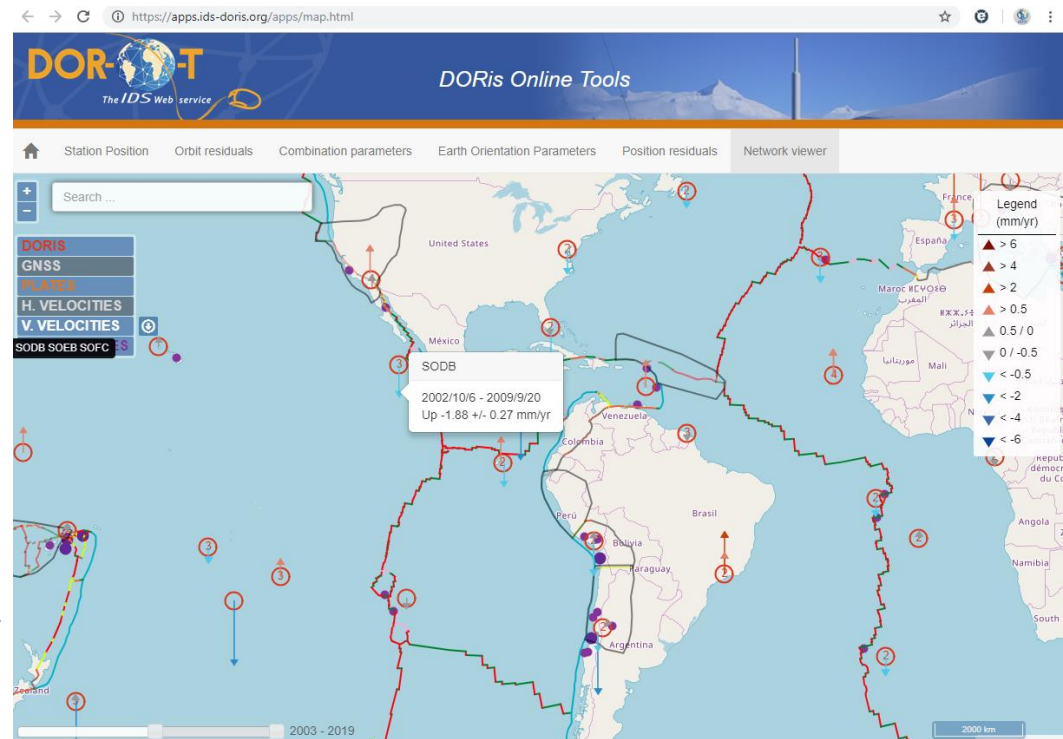
■ Network viewer

- Plate boundaries (Bird, 2003)
- Horizontal velocity vectors (DPOD2014)
- Earthquake around DORIS stations
- List of local events
- Vertical velocity vectors (DPOD2014)
- Velocity values displayed on mouse-over

■ Plottools

- Statistics update for displayed points for all the plottools
- Additional data: Pos./Vel. discontinuities, number of satellites

■ New plottool for position residuals



Webservice : what do you need?



■ Network viewer

- Co-locations with SLR, VLBI, tide-gauges ?
- Visibility circles (for one or two cut-off angles and one or two altitudes) ?
- Satellite tracks (only repetitive orbits) ?
- SAA contour line ?
- Other ?

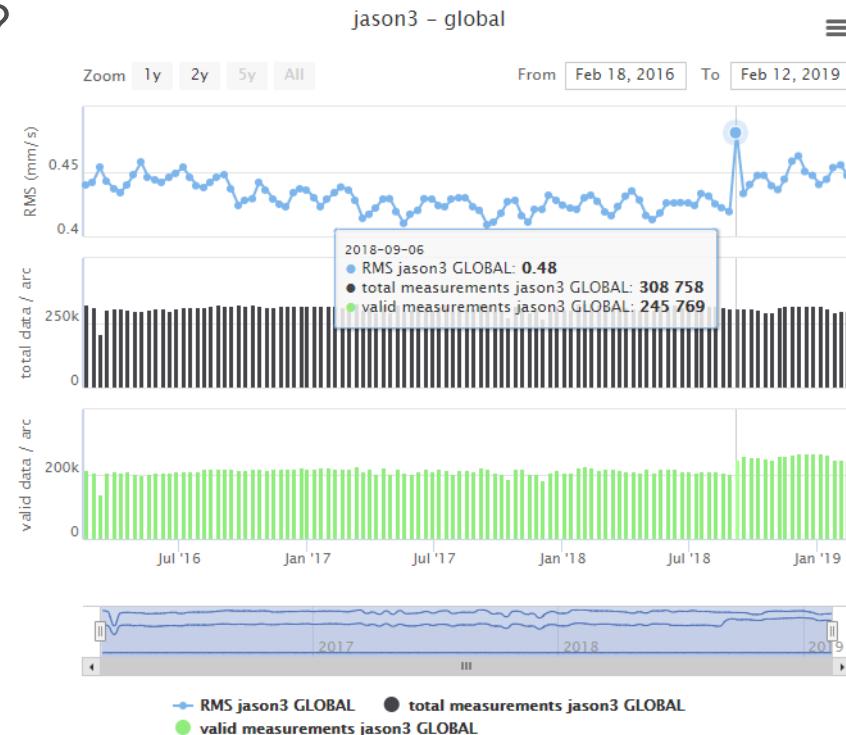
■ Plottools

- Orbit residuals → add dates of switch to new standards?
- New data? (eg. solar activity: flux, Kp)
- Other?

■ API queries

table of URL commands to query the web data base

Ex: <https://apps.ids-doris.org/api/v1/dpod> to get the DPOD values



Any suggestion?

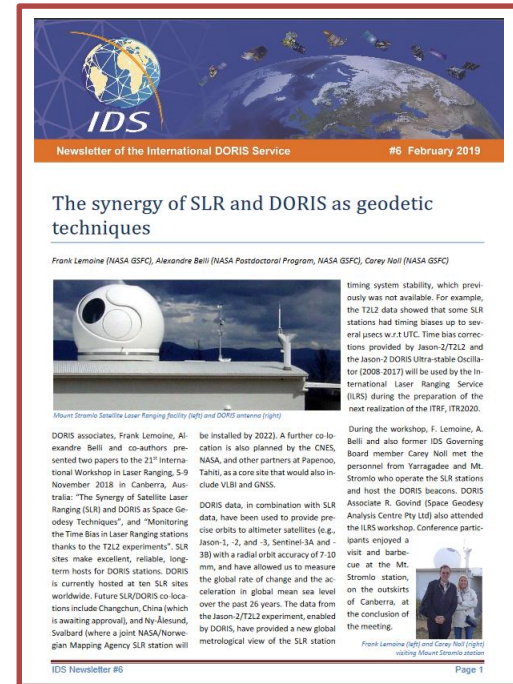
IDS Newsletter # 6 issued in February 2019

- Content:

- The synergy of SLR and DORIS as geodetic techniques
- The Azores: a key location occupied by DORIS for three decades
- Ponta Delgada: the host agency in short
- Tribute to Richard Biancale
- IDS life

- Distributed by email and available on IDS web site **IDS > Reports & Mails > Newsletter**
<https://ids-doris.org/images/documents/newsletters/IDS-Newsletter6.pdf>

- Subscription: email ids.central.bureau@ids-doris.org



DORIS/IDS presentations at EGU



Mon, 08 Apr, 10:45–11:00 Room -2.91 | **Oral** (session **G2.4**)

- « Improved determination of the three first-degree Earth gravity coefficients using SLR, DORIS and GPS observations »
Alexandre Couhert, Flavien Mercier, Christian Bizouard, and Richard Biancale

Mon, 08 Apr, 16:15–18:00 Hall X3 | **Poster** (session **G2.4**)

- « Precise Orbit Determination of DORIS satellites by CNES/CLS IDS Analysis Center in the frame of the next ITRF »
Hugues Capdeville and Jean-Michel Lemoine

Tue, 09 Apr, 08:30–10:15 Hall X3 | **Poster** (session **G2.1**)

- « Contribution of the DORIS system to the observation and determination of essential variables for geodesy »
L. Soudarin, J.- M. Lemoine, F. Lemoine, A. Couhert, C. Jayles, J. Saunier, G. Moreaux, H. Capdeville, P. Štěpánek, P. Ferrage

Tue, 09 Apr, 08:30–10:15 Hall X3 | **Posters** (session **G2.2**)

- « Innovations in the DORIS data processing at IDS analysis centre GOP »
Petr Stepanek and Vratislav Filler
- « Analysis of the ITRF2014 tie vector discrepancies at the DORIS sites »
Guilhem Moreaux, Frank G Lemoine, Hugues Capdeville, Petr Štěpánek, and Pascale Ferrage
- « Correlation study between the annual signal in GPS and DORIS station positions and the atmospheric and hydrological loading effects »
Sofiane Khelifa



All the presentations of the AWG meeting will be available on IDS web:

IDS > Documentation > Meeting presentations > IDS AWG 04-2019

Web: ids-doris.org

Contact: ids.central.bureau@ids-doris.org

