IDS news

Content

- IDS life: latest news
- Data/products
- Website/Webservice
- Reports
- Newsletters

Governing Board

Position	Term	Status	Name	Affiliation	Country
Analysis coordinator	**2015-2018**	Elected	**Hugues Capdeville** **Jean-Michel Lemoine**	CLS CNES/GRGS	France
Data Centers' representative	**2017-2020**	Elected	**Patrick Michael**	NASA/GSFC	USA
Analysis Centers' representative	**2017-2020**	Elected	**Frank Lemoine (chair)**	NASA/GSFC	USA
Member at large	**2015-2018**	Elected	**Marek Ziebart**	UCL	UK
Member at large	**2017-2020**	Elected	**Denise Dettmering**	DGFI/TUM	Germany
Director of the Central Bureau	Since 2003	App.	**Laurent Soudarin**	CLS	France
Combination Center representative	Since 2013	App.	**Guilhem Moreaux**	CLS	France
Network representative	**2017-2020**	App.	**Jérôme Saunier**	IGN	France
DORIS system representative	**2017-2020**	App.	**Pascale Ferrage**	CNES	France
IAG representative	**2017-2020**	App.	**Petr Štěpánek**	Geodetic Obs. Pecny	Czech Republic
IERS representative	**2017-2020**	App.	**Brian Luzum**	USNO	USA

IDS life: latest news

- Rolf Koenig is the new point of contact for the GFZ Associate Analysis Center

(Sergei Rudenko moved to DGFI/TUM on August 1st)

- Creation of the WG « Near Real Time data »

Objective: to implement delivery of DORIS data in NRT for assimilation in ionospheric model and other potential rapid products

Chair: Denise Dettmering (DGFI/TUM)

Data: RINEX

Based on test results (cf Jean-Michel's presentation at IDS Workshop), CNES decided to switch back to DIODE time tagging.

→ Back to Version 001 (instead of 010)

Routine delivery from Wednesday January 25th, for all missions (JASON2, CRYOSAT-2, HY-2A, SARAL, JASON3, SENTINEL3A) with a latency of 1 day (instead of 3 days).

Delivery of previous periods done in February

Still some files missing at CDDIS only for S3A

Still TBD: clean-up in data directories + readme

Products: DPOD

DPOD

- Storage of DPOD solutions has been reorganized at the Data Centers:

- All the versions of the current and past DPOD are stored with version numbers in corresponding directories:

pub/doris/products/dpod/dpod2000

pub/doris/products/dpod/dpod2005

pub/doris/products/dpod/dpod2008

pub/doris/products/dpod/dpod2014

- The latest recommended DOPD version is in:

pub/doris/products/dpod/

→dpod2014_current.snx (currently dpod2014_1.00.snx)

→dpod2014_current.txt (currently dpod2014_1.00.txt)

- Readme: products/dpod/dpod.readme

Products: Cumulative Solution

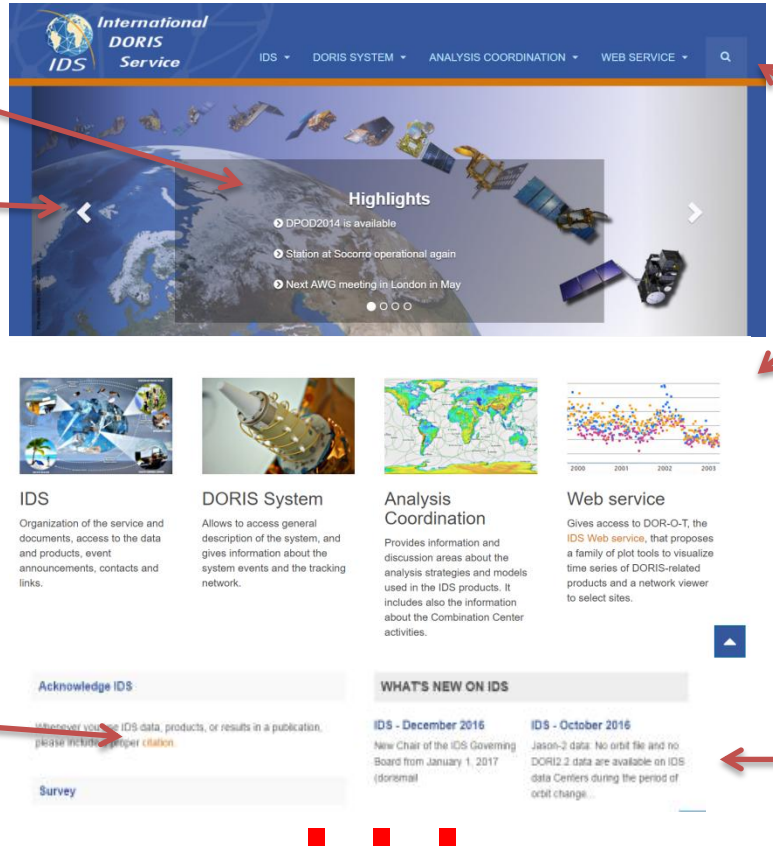
Cumulative solutions

- Available at Data Centers in doris/products/sinex_global/ids/
- Convention name: idsYYdXX.snx and idsYYdXX.ssc
- Delivery every 3 months
- Current version ids17d01.snx
- Readme: products/sinex_global/ids/ids.snx_global.readme

IDS web site
https://ids-doris/org

highlights

slideshow



the 4 parts of the website

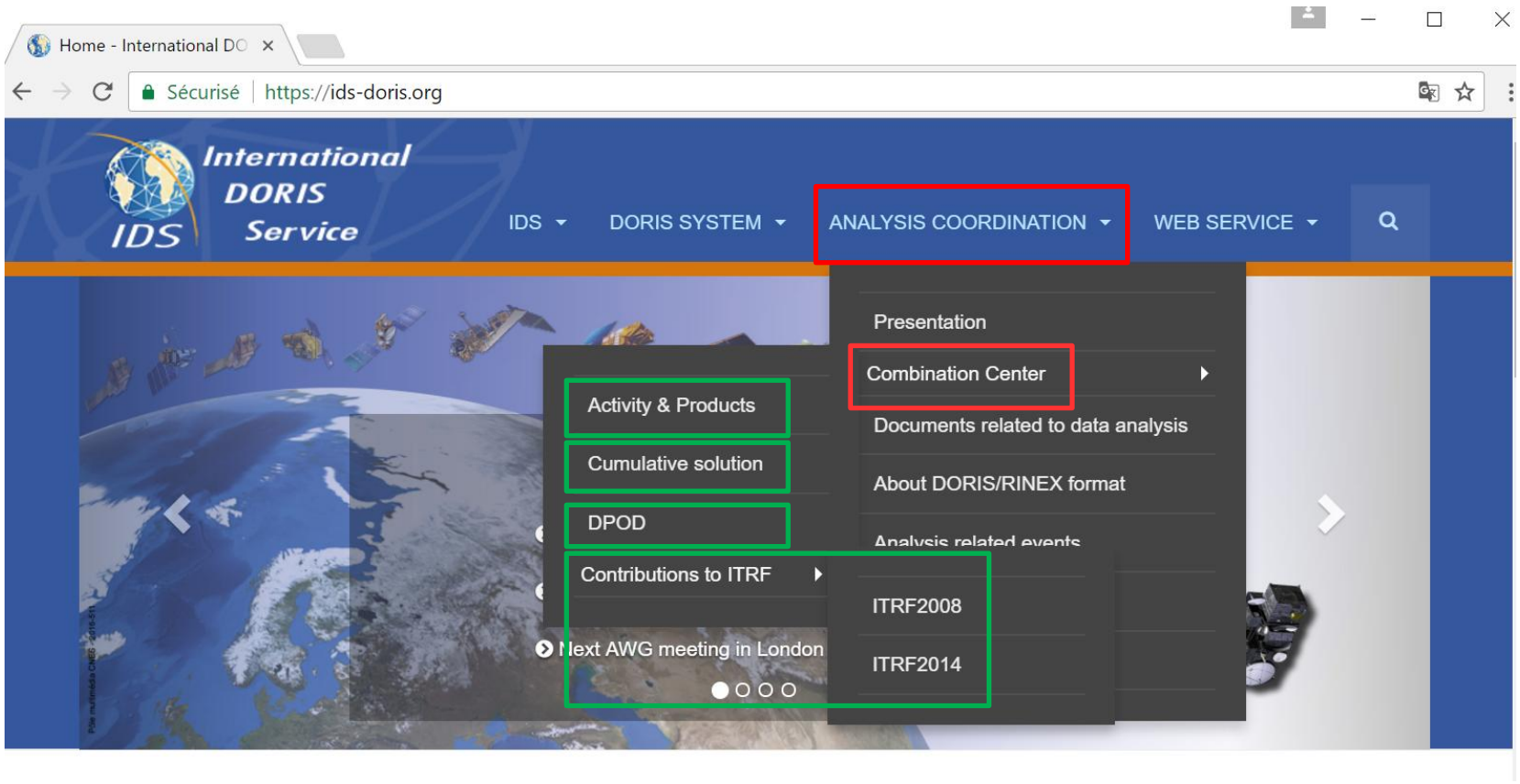
citation

What's new on IDS
What's new on DORIS
Site updates

Footer: quick links

Documentation	About DORIS	Monitoring
Table of documents	Tables of data and products	Visualize products time series
Newsletter	Discover DORIS (AVISO website)	Table of system events
Bibliography	List of stations (sitelogs)	MOE statistics
Activity reports	List of satellites	POE statistics
Documents for analysts	Videos of satellites	
Presentations at IDS meetings	Network on Google Earth	
IDS-related presentations		
DORIS-related presentations		

IDS web site
new section « Combination Center »



IDS webservice
https://ids-doris.org/webservice

- Graphic library upgraded
- Selection windows revised
- New version of the network viewer
- IDS combined solution is proposed by default

(stations, combination parameters, EOP)

Only the 5 last years are displayed by default

→ One quick plot in one click

data

TOULOUSE : *TLHA, TLSA, TLSB*

DORIS stations		Series						
Name	Code	ids17wd05	esa17wd04	gop17wd03	grg17wd03	gsc17wd05	ign17wd05	ina17wd05
TOULOUSE	TLHA	☑	☐	☐	☐	☐	☐	☐
	TLSA	☑	☐	☐	☐	☐	☐	☐
	TLSB	☑	☐	☐	☐	☐	☐	☐

Unselect all series | Reset all selections

IDS webservice
https://ids-doris.org/webservice

Station position

Station position differences at observation epochs relative to a reference position (North, East and Up trended time series).

Combination parameters

Combination parameters i.e. outputs of the IDS Combination Center analysis (WRMS of station position residuals, scale and translation parameters, number of stations used in the analysis).

Earth Orientation Parameters

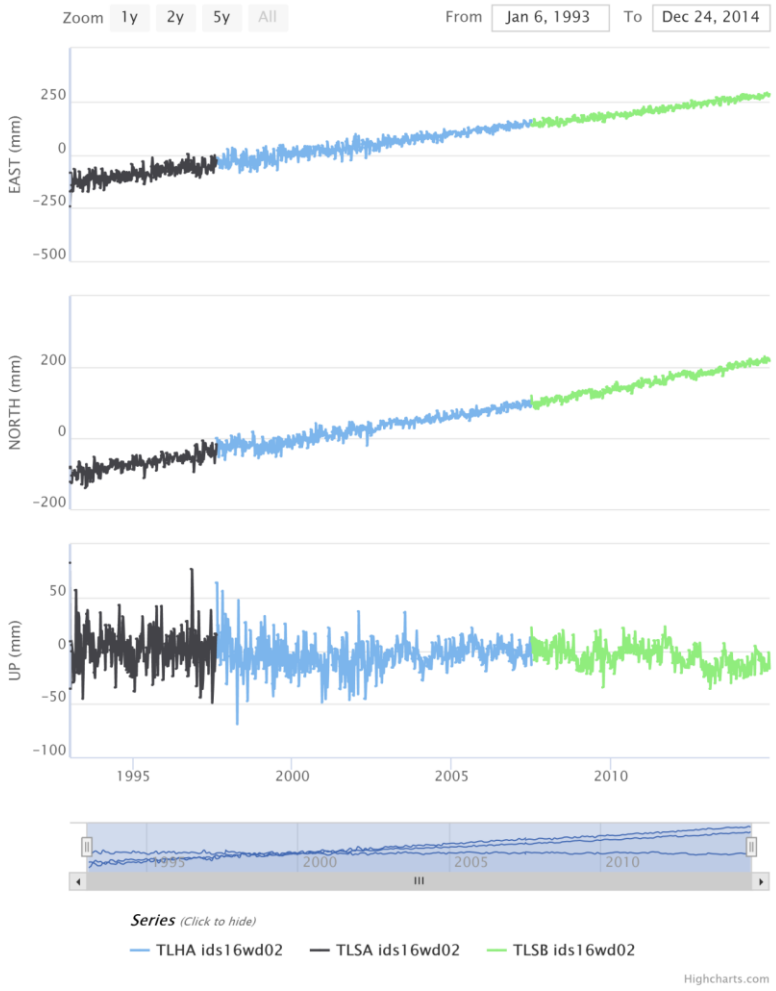
Earth Orientation Parameters from the IDS Combination Center analysis (Xp, Yp, LOD).

Orbit residuals

Orbit residuals and amount of station measurements from CNES Precise Orbit Ephemeris processing (RMS of post-fit orbit residuals, total and validated number of DORIS measurements per arc).

Network viewer

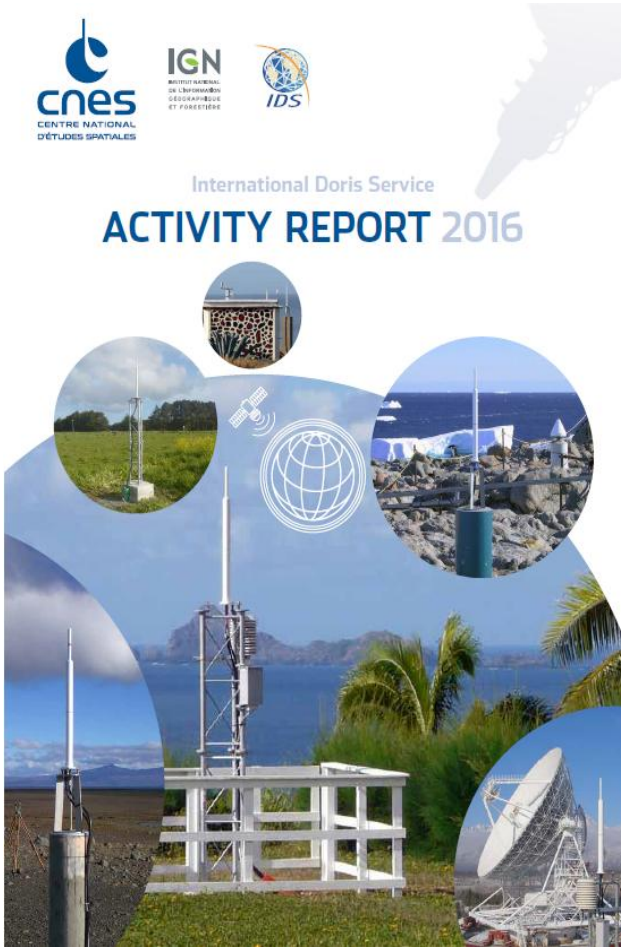
A network viewer to select sites. You can access to the **DORIS combined time series** from the IDS Combination Center and **GNSS combined time series at colocated sites** from the IGS TRF Combination Center.



IDS Reports

IDS Annual report 2016

- all contributions received but one
- objective: June



IDS report for IERS

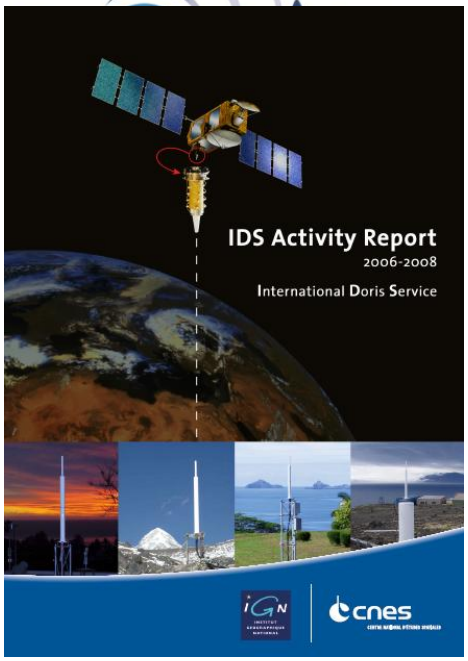
Submitted

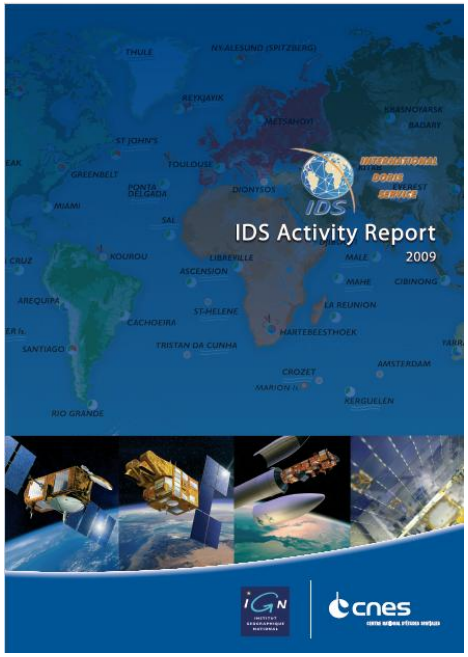
IDS contribution for IAG travaux 2015-2016

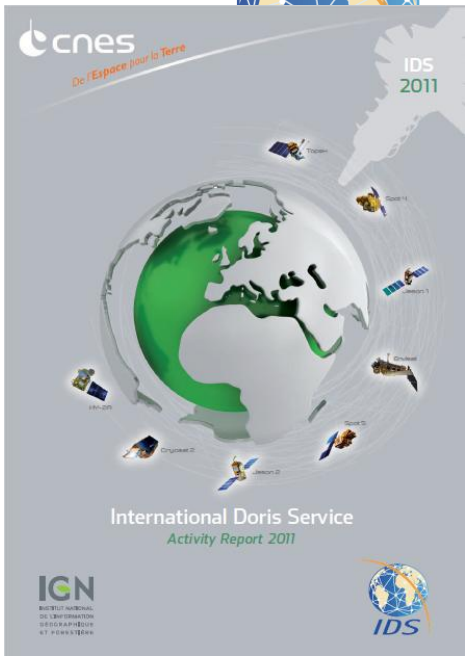
Submitted

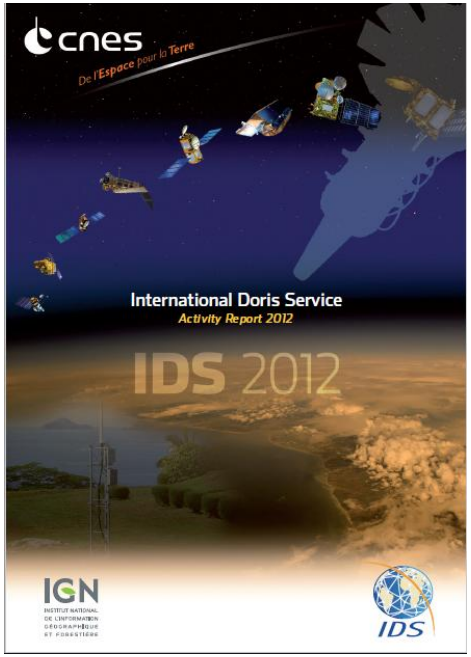
Thanks to all contributors!

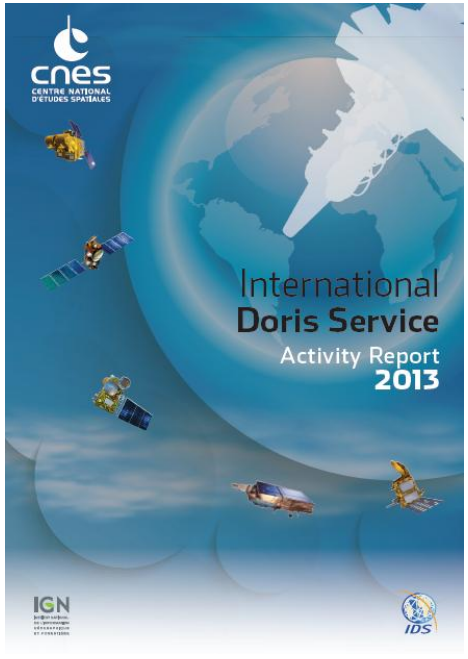
IDS Activity Reports

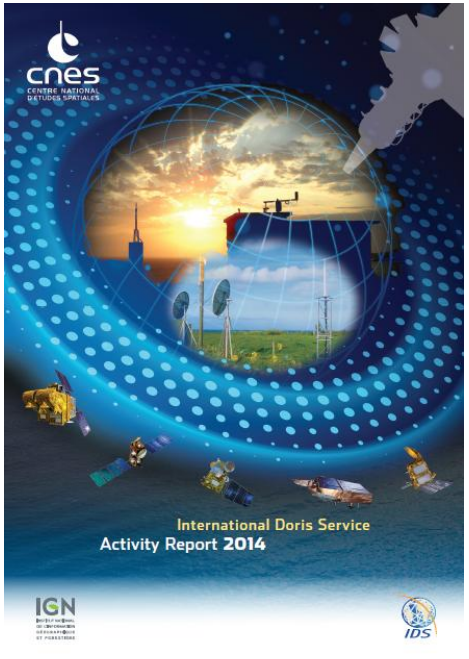


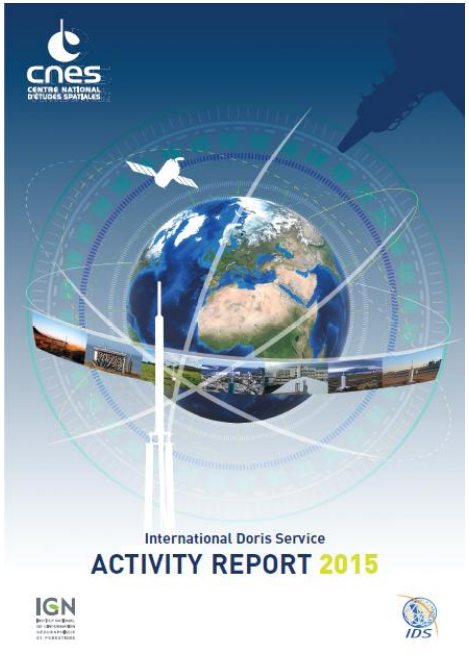












IDS Newsletter

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

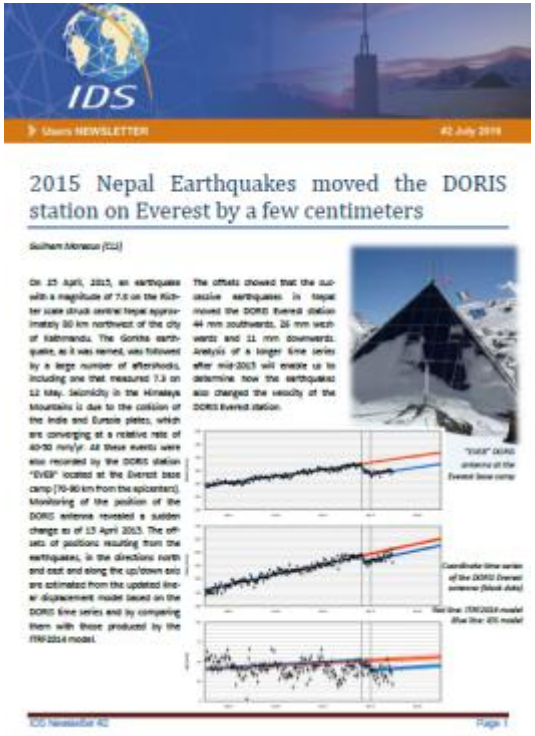
IDS

Users NEWSLETTER

Editorial

A high performing network

#1 April 2016



IDS

Users NEWSLETTER

2015 Nepal Earthquakes moved the DORIS station on Everest by a few centimeters

#2 July 2016

IDS

Users NEWSLETTER

#3 December 2016

IDS held its Workshop 2016 in La Rochelle

Laurent Soudarin (CLS)

The IDS Workshop 2016 was held in La Rochelle, France, on October 31 and November 1, in conjunction with a SAR Altimetry Workshop and the 2016 Ocean Surface Topography Science Team meeting. About 50 people participated in the Workshop. The program was divided into four sessions, during which 24 contributions were presented. The PDF versions are available on the IDS website for viewing or downloading.

The second session focused on Precise Orbit Determination (POD) and orbit modeling. It covered items such as the potential sensitivity to radiation of the DORIS oscillators on Jason-3 and Sentinel-3A, the time-tagging method for DORIS measurements in RINEX data files, and the development of DPOD2014, the new version of the DORIS-oriented Terrestrial Reference Frame for POD.

Attentive audience at IDS Workshop 2016

The third session was devoted to the recent completion of the International Terrestrial Reference Frame (ITRF2014), which provided the opportunity to look back on DORIS's contribution and address the issues raised during and after its development. Zuheir Altamimi, Head of the ITRS Center, reviewed the main DORIS results of the ITRF2014 analysis, while other speakers presented assessments of the uses of ITRF2014 for orbit determination.

The last session was an open forum on research activities and new applications. The DORIS-DIODE navigator's onboard computation of Earth Pole coordinates was highlighted. These promising results could benefit the IERS Rapid Service. DORIS observations were also shown to provide significant input for ionosphere modeling with a higher temporal resolution. The need for near real time DORIS data for operational ionospheric mapping and prediction processing was expressed. The message was clearly received by IDS, which proposed the creation of a "Near real time data" working group.

Pascal Willis, Chair of the Governing Board, closed the Workshop with a final presentation in which he reviewed IDS achievements and mapped out options for the future.

The objective of the first session was to present the status and developments in the DORIS network and constellation, whose main features are reported in this issue. Thomas Klügel from BKG presented the VLBI-DORIS compatibility tests performed at the Geodetic Observatory Wettzell with CNES and IGN prior to the installation of DORIS in September 2016, making Wettzell a new GGOS core site.

IDS Newsletter #3 Page 1

IDS Newsletter

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

#4 in preparation:

1 article about DIODE Pole by C. Jayles (in progress)

1 article about DPOD by Guilhem (TBC)

1 article by Jérôme about Kitab and/or focus on an area (ex. Central America) (TBC)

1 article by Christian about Grasse, first atomic orbitography beacon in operation (TBC)

Objective: June

Contributed articles, pictures, cartoons, and feedback are welcome at any time.

Please send your contributions to: ids.central.bureau@ids-doris.org.

DORIS Special Issue

« Scientific Applications of DORIS in Space Geodesy »

Advances in Space Research (Dec. 15, 2016. Volume 58, Number 12)

18 papers grouped under five themes:

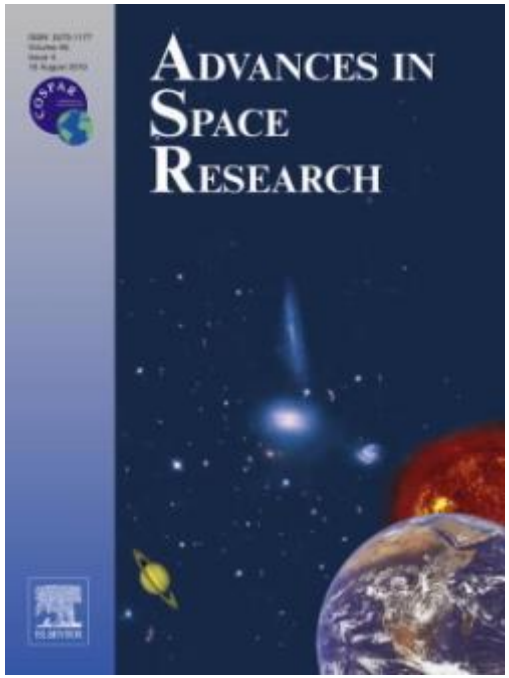
(1) ITRF2014;

(2) DORIS Ultra Stable Oscillator (USO) -- Jason2;

(3) Precise Orbit Determination;

(4) DORIS System and Network

(5) Intertechnique comparisons of DORIS Products



Guest editors:

Frank G. Lemoine (NASA/GSFC, USA)

& Ernst J.O. Schrama (T.U. Delft, The Netherlands)

THANK YOU