The International DORIS Service: 
status report

G. Tavernier (CNES) 
H. Fagard (IGN) 
F. Lemoine (NASA/GSFC) 
C. Noll (NASA/GSFC) 
R. Noomen (Delft University of Technology) 
J. Ries (UTEX/CSR) 
L. Soudarin (CLS) 
P. Willis (IGN/JPL)
IDS structure

Users

Central Bureau

Data Centers

Analysis Centers

Satellites (C.C.)

Network

Governing Board

Analysis W. Group

Analysis Coordinator

Data Flow Coordinator

Stations Sel. Group

IERS Dir. Board

IAG Exec. Com.
### IDS Governing Board

- **Gilles Tavernier**  
  CNES  
  Chairperson

- **Hervé Fagard**  
  IGN  
  Network representative

- **Frank Lemoine**  
  NASA GSFC  
  Analysis coordinator

- **Carey Noll**  
  NASA GSFC  
  Data Flow coordinator

- **Ron Noomen**  
  Delft UT  
  Representative of the IERS

- **John Ries**  
  UTEX CSR  
  Member at large

- **Laurent Soudarin**  
  CLS  
  Director of the Central Bureau

- **Pascal Willis**  
  IGN / JPL

- **TBD**  
  Representative of the IAG

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**Observing and Forecasting the Ocean**

**IDS Analysis Workshop**

**Nice – 12-14 November 2008**
IDS Governing Board election

- IDS Governing Board to be renewed
  - 2009-2012 term

- 3 Appointed members
  - IAG & IERS representatives, CB director

- 2 members elected by the IDS associates
  - Analysis Centers and Data Centers representatives
  - Submit changes proposals (adding a name, or deleting a name) to the Central Bureau
  - nominating committee: G. Tavernier, J. Ray, xxx

- 4 members elected by the current GB from a list submitted by the CB
  - Network representative, Analysis Coordination
  - 2 members at large
IDS Central Bureau

- CNES/IGN/CLS
  - Pascale Ferrage, Gilles Tavernier
  - Laurent Soudarin, Jean-Jacques Valette
  - Hervé Fagard, Pascal Willis

- Website:

- IDS Mails
  - DORIS Mails http://listes.cls.fr/wws/arc/dorismail
  - DORIS Reports http://listes.cls.fr/wws/arc/dorisreport
  - Analysis Forum http://listes.cls.fr/wws/arc/ids.analysis.forum
  - IDS Analysis Working Group
New Web site (February 2007)

DORIS is a Doppler satellite tracking system developed for precise orbit determination and precise ground location. It is onboard the Jason-1 and Envisat altimetric satellites and the remote sensing satellites SPOT-2, SPOT-4 and SPOT-5. It also flies with SPOT-3 and TOPEXPOSEIDON.

IDS is an international service which provides a support, through DORIS data and products, to geodetic, geophysical, and other research and operational activities. New proposals for Analysis Centers and temporary or permanent DORIS stations are welcome. See the call for participation.

This site is composed of three parts:

- "IDS" describes the organization of the service and includes documents, access to the data and products, event announcements, contacts and links.

- "DORIS" allows access to general description of the system, and gives information about the system events and the tracking network.

- "Analysis Coordination" provides information and discussion areas about the analysis strategies and models used in the IDS products. It is maintained by the Analysis Coordinator with the support of the Central Bureau.

You may come back at any time to the Home Page by clicking on the IDS logo at the left upper top.

Acknowledges IDS: Whenever your use of IDS data or products results in a publication, please include a proper citation.

Jason-2 successfully launched!
 IDS Workshop 2008: First announcement & call for contributions

Presentations of the DORIS Analysis Working Group Meeting in Paris, March 2008 and June 2008

IDS Analysis Workshop
Nice – 12-14 November 2008

mousemove
New Web site (February 2007)

Network on Google Earth

Make a virtual tour of the DORIS network with Google Earth.

DORIS network on Google Earth:
Download the file (June 2007).

Depending on the resolution of the image, we sometimes adjusted the position of the antenna of the station according to our knowledge of the site. Some positions could still be improved with your help. Comments, maps and pictures are welcome at any time to help us to improve the virtual tour and should be e-mailed to the Central Bureau.
Web site update (January 2008)

DORIS statistics
CNES/SOD POE orbits

The PDF files available in the following tables show plots of station statistics from the CNES POE routine processing:
- RMS residuals for DORIS in meters per arc (red dots),
- number of DORIS measurements per arc (light blue columns) and validated (superimposed dark blue column).
See the description of POE processing for the definition of the arcs.

Each file covers one year. Two types of plots are available:
- Satellites table: plots of all the stations for each satellite.
- Stations table: plots of all the satellites for each station.

Statistics of the current network can also be selected via the map.

Statistics per satellite

<table>
<thead>
<tr>
<th>Satellite</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
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<td>SPOT4</td>
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<td>JASON</td>
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<tr>
<td>ENVISAT</td>
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<tr>
<td>SPOT5</td>
<td></td>
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</tr>
</tbody>
</table>

Statistics per station

Observing and Forecasting the Ocean

IDS Analysis Workshop
Nice – 12-14 November 2008
Data flow coordination
Data Centers

Data flow coordination: Carey Noll
NASA GSFC

Data Centers:

- preprocessed DORIS measurements from 8 satellites (6 still active)
- ancillary data
- Analysis Centers products

- NASA GSFC CDDIS - USA
  - Carey Noll
  - ftp://cddis.gsfc.nasa.gov/pub/doris/

- IGN LAREG - France
  - Bruno Garayt
  - ftp://lareg.ensg.ign.fr/pub/doris/
## DORIS ARCHIVE CONTENT

<table>
<thead>
<tr>
<th>Satellite</th>
<th>Time Span</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOPEX/Poseidon</td>
<td>25-Sep-1992 through 01-Nov-2004</td>
</tr>
<tr>
<td>SPOT-2</td>
<td>31-Mar through 04-Jul-1990 04-Nov-1992 through present</td>
</tr>
<tr>
<td>SPOT-3</td>
<td>01-Feb-1994 through 09-Nov-1996</td>
</tr>
<tr>
<td>SPOT-4</td>
<td>01-May-1998 through present</td>
</tr>
<tr>
<td>SPOT-5</td>
<td>11-Jun-2002 through present</td>
</tr>
<tr>
<td>Jason-1</td>
<td>15-Jan-2002 through present</td>
</tr>
<tr>
<td>ENVISAT</td>
<td>13-Jun-2002 through present</td>
</tr>
<tr>
<td>Jason-2</td>
<td>12-Jul-2008 through present</td>
</tr>
</tbody>
</table>
IDS Meetings


- DORIS Analysis Working Group Meeting, Paris, 5-6 June 2008

- IDS Workshop, Nice, November 12-14, 2006
IDS Workshop

Scientific committee

- F. Lemoine (chair)
- H. Fagard
- C. Noll
- J. Ries
- L. Soudarin
- G. Tavernier
- J.-J. Valette
- P. Willis

R. Noomen
Observing and Forecasting the Ocean
DORIS Special Issue

⇒ DORIS Special Issue, P. Willis (Ed.), Journal of Geodesy 2006
  ● 17 papers

⇒ DORIS Special Issue, Advances in Space Research 2009
  ● DORISMail 554 (October 2nd 2008)
  ● Guest Editor: Pascal Willis (willis@ipgp.jussieu.fr)
  ● Call for Participation in Space Research Today (December issue)
  ● Official call for manuscript submission: February 2009
  ● Manuscripts should be submitted between March and May 2009
  ● Submission of manuscripts using the current JASR Web site
    http://ees.elsevier.com/asr/
  ● Review process: June - October 2009
  ● Publication of the full Special Issue by Elsevier: Dec. 2009 – Febr. 2010
IDS Analysis coordination

➤ Analysis coordination: Frank Lemoine, NASA/GSFC
  ● Analysis coordination page:

➤ DPOD2005 (P. Willis & al.)

➤ On the way to ITRF2008
  ● 2 DORIS Analysis Working Group Meetings in Paris (March and June)
  ● From 2 (ITRF2005) ... to up to 8 (ITRF2008) Analysis Centers
  ● IDS combination (CATREF)

➤ Presentation:
  DORIS Inter-Center Analyses and comparisons for ITRF2008