



## **IDS status**

# **GGOS Working Group on Ground Networks and Communications**

April 18, 2007

Vienna University of Technology, Vienna, Austria



# Summary

- ◆ Future Missions
  
- ◆ DORIS Network
  
- ◆ New IGN/SGN Data Center structure
  
- ◆ New IDS web site

# Future Missions: (decided)

- ◆ JASON-2 (CNES-NASA-EUMETSAT-NOAA)
  - ◆ June 2008
  - ◆ T2/L2 (Laser Time Transfer Link), Carmen & JTD (radiation dose)
  
- ◆ CRYOSAT-2 (ESA)
  - ◆ March 2009
  
- ◆ SARAL / ALTI-KA (CNES-ISRO 3 years)
  - ◆ ISRO proposal: SSB platform with ALTIKA + ARGOS 3 payload
  - ◆ SARAL(Satellite with ARGOS & ALTIKA), MOU February 2007
  - ◆ end 2009 – beginning 2010 ?

# Future Missions: (possible)

## ◆ HY-2A (CNES/CNSA)

- ◆ Dual frequency altimeter, nadir 3-frequency radiometer, 5-frequency scanning radiometer, scanning scatterometer, +DORIS/GPS/LRA
- ◆ Orbit : SSO 6am-6pm, 14 days (after 1-year geodetic mission)
- ◆ 2009 (?)

## ◆ Jason-3 (CNES-NASA-EUMETSAT-NOAA)

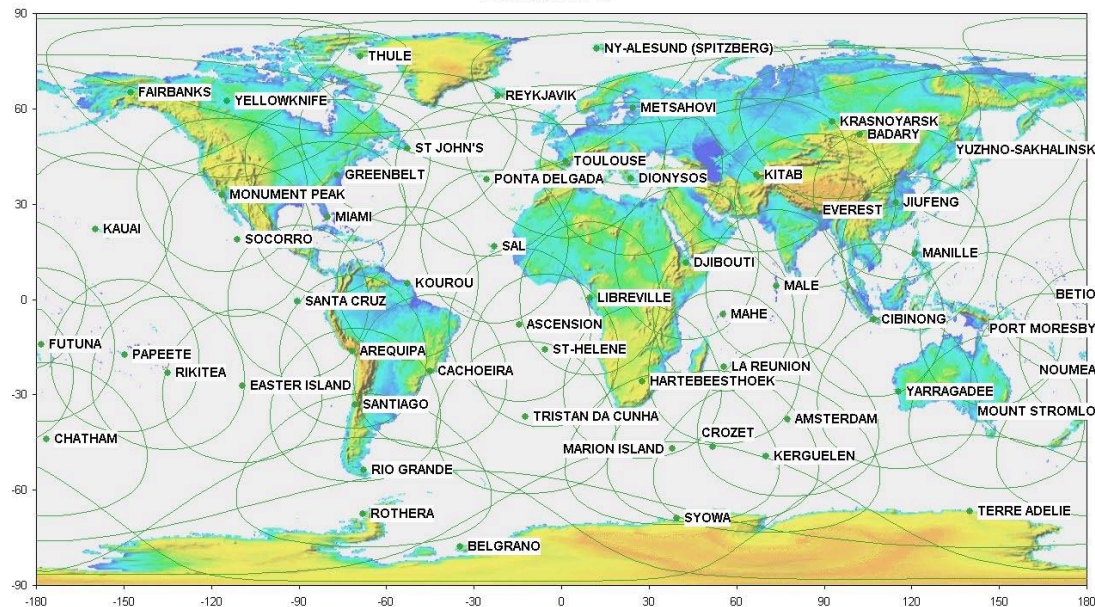
- ◆ Jason-2 recurrent: 5th PROTEUS platform
- ◆ CNES system foreman, clients : NOAA & EUMETSAT
- ◆ OSTSTM Hobart: SWOT or Jason-2 orbit? Decision by the end of 2007
- ◆ GMES programme – end 2012 (?)

## ◆ SENTINEL 3 (European GMES programme, ESA mission)

- ◆ CNES proposal for a DORIS receiver
- ◆ Possible proposal for other ESA missions

# DORIS Network

Jason-1 DORIS stations visibilities  
Elevation 12°



## Desired places for new stations:

- (1) Midway; (2) Adak (Aleutians); - Contacts made but logistics difficult; Both are sites with long-term tide gauge data history;
- (3) Northern India would be interesting, as a co-location to a potential VLBI site (for example), as the Everest site has high elevation mask and difficulty of access for maintenance.



# DORIS Network Status

- ◆ New stations:
  - ◆ Rikitea, French Polynesia: RIKB (23/09/06)
  - ◆ Betio, Kiribati: BETB (22/10/06)
  
- ◆ Station removal:
  - ◆ Rapa, French Polynesia (RAQB), replaced by RIKB
  
- ◆ Station planned changes:
  - ◆ Summer 2007: Papeete, French Polynesia (PAQB) - 4th master beacon
  - ◆ May 2007: Yellowknife, Canada (YELB) - time beacon



# New IGN/SGN Data Center structure

- ◆ DORISMail 486 (March 13, 2007)
  - ◆ Bruno GARAYT (bruno.garayt@ign.fr) : in charge of the IGS and IDS data centers related activities
  - ◆ Eric FOURESTIER (eric.fourestier@ign.fr) : computer system administrator
  - ◆ The new address to be used from now on through ftp is: doris.ensg.ign.fr to get data and/or products (login : anonymous)
  - ◆ **The IGN Data Center now functions as a center independent of the CDDIS, so we have full functionality for IDS operations in the event of network problems at either the IGN or NASA.**



## New IDS web site

**International DORIS Service**

Search for...

| Site map | FAQ | Mails | Bibliography |  
| Sitelogs | System events | Performance plots | Time series |

| What's new on IDS | What's new on DORIS |

**Acknowledge IDS:**  
Whenever your use of IDS data or products results in a publication, please include a proper [citation](#).

[2006 IDS Workshop presentations](#)

[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 flew with SPOT-3 and TOPEX/POSEIDON.

[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 to access 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.

Last updated: 2007/02/07  
[Webmaster](#)

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# New IDS web site

- ◆ improved organization
  - ◆ Easier navigation
  
- ◆ Analysis Coordination pages
  - ◆ beside the usual "IDS" and "DORIS system" headings
  
- ◆ virtual tour of the DORIS network via Google Earth

# New IDS web site

## Network on Google Earth

Make a virtual tour of the DORIS network with [Google Earth](#).



### DORIS network on Google Earth:

 [Download the file](#) (February 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](#).

