

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 (?)

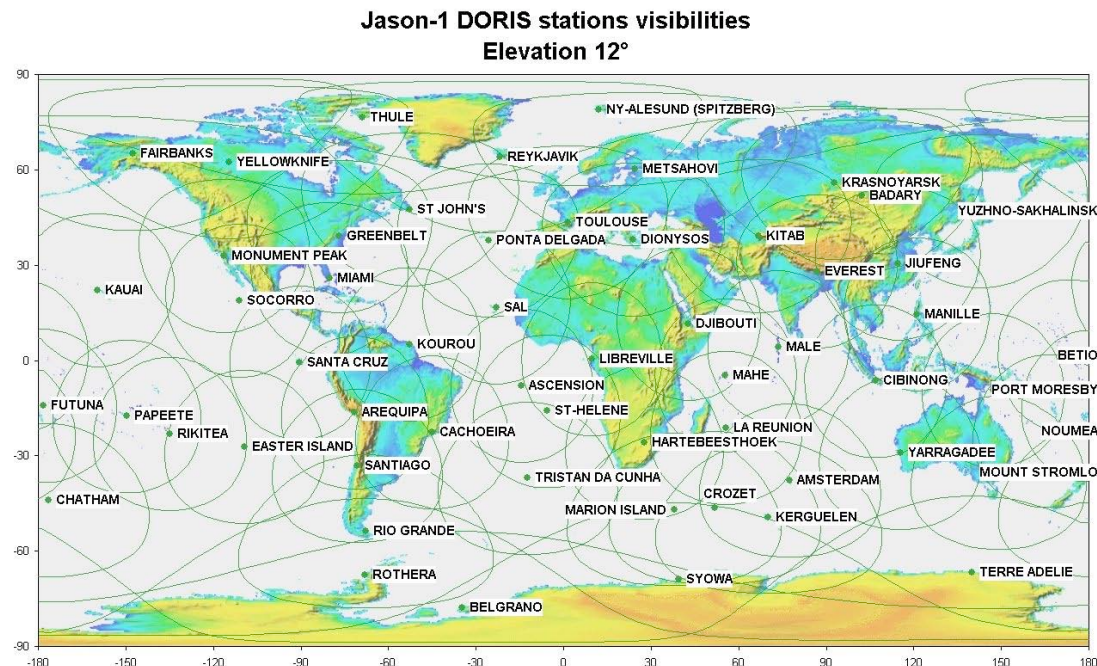
◆ Jason-3 (CNES-NASA-EUMETSAT-NOAA)

- ◆ 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



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



The screenshot shows the IDS web site interface. At the top, there is a header with the IDS logo, the text "International DORIS Service", a search bar, and navigation links: "Site map", "FAQ", "Mails", "Bibliography", "Sitelogs", "System events", "Performance plots", and "Time series". Below the header is a navigation menu on the left with categories: "IDS", "Organization", "Data & Products", "Meetings", "Reports", "Contacts & Links", "DORIS system", "Official web site", "Network", "System monitoring", "Analysis coordination", "Presentation", "Documents", "DORIS related events", "Discussion", and "Software". The main content area features a banner with six images of ground stations. Below the banner, there is a section titled "Acknowledge IDS:" with a paragraph about citing IDS data in publications. This is followed by a link to "2006 IDS Workshop presentations". The text then describes DORIS as a Doppler satellite tracking system used on Jason-1, ENVISAT, SPOT-2, SPOT-4, SPOT-5, and TOPEX/POSEIDON. It also mentions that IDS is an international service providing support for geodetic, geophysical, and other research activities. A section titled "This site is composed of three parts:" lists the components: "IDS" (organization and products), "DORIS" (system description and tracking network), and "Analysis Coordination" (analysis strategies and models). The footer of the web page indicates it was last updated on 2007/02/07 by the Webmaster.

Primary website author: Laurent Soudarin

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](#).



Copyright © 1999-2007 CNES-CLS. All rights reserved.

Last updated: 2007/02/06
[Webmaster](#)