

Nice, France

November 13-14, 2008

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GOVERNING BOARD MEETING

Nice, France, November 13-14, 2008

AGENDA:

- DORIS instruments: status of satellites, future missions
- Network, status of beacons, future stations/ New IDS/DORIS ground station
- Improvement of DORIS warnings information
- Data Centers: Jason-2 data (RINEX &2.2), quaternions...
- IDS web pages
- New analysis centers
- ITRF 2008 schedule : Analysis Centers, combination
- DORIS special issue in Advances in Space Research 2009
- GB election
- GB organization: review of ToR
- IDS representative to IAG/GGOS
- FAGS membership
- Review of actions items (GGOS UAW, AWG...)
- Switch to ITRF2005 for the sitelogs and DORISMails, status of DPOD2005
- IDS reports for 2003-2008
- IVS anniversary (2009)
- Next GB Meeting

MAIN DECISIONS:

- Preparation of the IDS combination for ITRF2008
- GB election
- DORIS special issue in Advances in Space Research 2009

ATTENDEES:

Governing Board: Hervé Fagard, Frank Lemoine, John Ries, Laurent Soudarin, Gilles Tavernier, Pascal Willis

Guest Pascale Ferrage

DORIS instruments: status of satellites,	-	See presentations of IDS workshop Nice 12-14 Nov2008 (online on IDS web site http://ids.cls.fr/html/report/ids workshop 2008/), most important news will be reported in "what's new on IDS/DORIS" pages	CB (Central Bureau)
future missions	-	About GRASP (Y. Bar Sever – JPL): on-board collocation (SLR + DORIS + GPS + VLBI) the presentation should be shown to the CNES programme directorate	P. Ferrage CNES
	-	About CITRIS, P. Bernhardt intends to submit a paper in the DORIS special issue. We must ask him for some news and about data availability	G. Tavernier
Network: status of beacons, future stations	-	Installation of a new "IDS station" in Riyadh is on the good way (Spring 2009?). Jamming studies have to be performed for Riyadh and Tamanrasset: both station should be operated with shifted frequencies (no measurements with SPOT-2 and SPOT-4).	
	-	With a 7-channel on-board Jason-2 and future satellites (CryoSat-2, SARAL), should we re-activate the station selection group? IDS is still interested in implementing new stations for geodesy, both to have more collocated stations	P. Ferrage CNES



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	(IERS) and to have DORIS in places where other techniques can't go should first define how many beacons are available and order more be necessary, then a new "stations call for proposals" could be prepared.	
	- About DORIS/VLBI collocation Chopo Ma is about to perform some Greenbelt, according to Hervé Fagard.	tests in
Improvement of DORIS warnings information	See B. Nhun Fat's presentation "How to improve station disturbance detect warning" on IDSweb (http://ids.cls.fr/html/report/ids workshop 2008/) Principle: - routine analysis and quick look on coordinates determination based on S	
	weekly solutions - report in case of station disturbance (missing data or corrupted data)	
	- two steps of report:	
	1rst warning sent to the analysis forum, before DORIS 2.2 dissemir comments from Analysis Centers.	nation, +
	 2nd report through a DORIS email when the disturbance is confirmed 	ned and
	Then, an history file of "station events" will be available in IDS website.	СВ
	This will be implemented in SSALTO and IDS web site, a mail to final principle will be sent to the GB/CB for confirmation.	lize the
Data Centers	Data documentation : Martine Feissel-Vernier's document should be chec probably updated (format descriptions, readme files). Coherency betw document and the contents of both DCs will be checked by the Central bureau Data Flow Coordinator.	een the L. Soudarin,
	RINEX files : is it necessary to send a DORIS report for each delivery? As automatically sent daily by SSALTO to the Data Centers, the procedure of report be the same as for format 2.2 data (10-day or weekly report by CNES POI a DORIS report every week or every cycle would be useful => automatic procedure the files were accounted at SSALTO level?	oort may O team); edure to P. Ferrage
	About the filename convention: decision to keep the current convention (GPS).	same as
	ACs are currently very busy preparing ITRF2008 and will start to process RIN next year (2009).	EX files
	TOPEX/POSEIDON & Jason-1/2, ENVISAT quaternions: GGOS UAW item.	action /
	Status presented by L. soudarin:	
	- Current quaternions of current missions are available in SSALTO (last 6 Implementation of an automatic procedure to send satellite quaternions Centers shall be performed ASAP.	
	- TOPEX quaternions are only available in optical disk (=> long process to retr data), and format document to be found => Action to confirm the need of attitude quaternions, and provide the documentation if confirmed. We should a for other sources (USA?).	TOPEX F. Lemoine
	- JAS1 quaternions are available in AVISO catalog and partially in AVISO	ftp: the



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	solution is to complete AVISO ftp with missing period of JAS1 quaternions (2 y 4 months), then available for Jason POD team (send a message) and Data Centreadme file should also be prepared for the Data Centers.	
	- JAS2 available in AVISO catalog : shall be copied to AVISO ftp to be availafor Data Centers.	able for CB
	- Envisat : available on AVISO catalog, <u>but only from 2004</u> . Moreover, files are big , and formats are not easy to understand and to use, => a test could be done doing anything on Envisat. Action to find and provide documentation+ a file exa to F. Lemoine, then he will perform a test.	before
	=> Action CNES/CLS (change request, proposal and implementation):	
	- implement automatic procedure to deliver quaternions of JAS1/JAS2 to Data 0 $\&$ put documentation on IDS website.	Centers
	- deliver to Data Centers and/or AVISO ftp old quaternions of JAS1/JAS2	
	SP1 interpolator : John Ries states that it could be useful. Frank Lemoine whether IGS groups have such a software.	will ask
	CB ftp site: macromodels, mass and maneuver history files are available.	
	For SPOT-3 no history of mass is available. A "line feed" should be added at of the history file (add a line with 0 0 0 0 0 LF).	the end
	New SPOT-2 2.2 files: Laurent Soudarin will perform tests.	
	What about 3 first months of SPOT-3 and early SPOT-2 data?	
IDS web pages	Next improvments:	
	- Global residuals (wrt POE for each satellites, instead of each station)	
	 manœuvres caracteristics (cf action AWG: Investigate the feasibility for Comprovide additional information on DORIS satellite maneuvers (amplitude and direction) 	
	The report on web site activity supplied by Laurent Soudarin is very useful a should be supplied twice a year.	and
	CB should update regularly the "what's new" pages, not only with news aboweb pages, and ask ACs to send regular information to be put on line of IDS (AC news, results, time series, combination)	
New Analysis Centers	Hervé Fagard asks about new Analysis Centers: people from might be interested	
Centers	New ACs are welcome, IDS ACs, GB and CB are open to support them as n possible.	nuch as
	Several software are available: Gipsy, Bernese, GINS	
	Criteria to be accepted as an Analysis Center:	
	- Stations coordinates time series: 1 year of data (2005) to be tested with curr ACs products, to check that is is compatible,	rent



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	 Orbits: January 2005, should compare reasonably with existing orbits Commitment to deliver products on an operational basis. 	
ITRF 2008 schedule	See AC presentations on IDS website (IDS workshop NICE 12-14 Nov 08) http://ids.cls.fr/html/report/ids_workshop_2008/	
DORIS special issue in Advances in Space Research 2009	New DORIS special issue in <i>Advances in Space Research 2009</i> managed by Pasca Willis:. Schedule: - call for paper (DORISMail): September - Deadline to submit papers: February or March 2009 - Publication: end 2009-beginning 2010 At the moment, about 30 papers are foreseen (20 certain, 5 probably, 5 maybe), wit around 1/3 from previous authors, 1/3 from different persons from previous group and 1/3 from new groups/persons. Unfortunately none about ionosphere Frank Lemoine will contact other Analysis Coordinators about recommendations for	ch os
	citations.	
GB election	The nomination committee for AC and DC representatives is now completed: Jim Ra Bruce Hayne and Gilles Tavernier. The objective is to finalize the GB election in December (AGU). What shall be done before that:	ay .
	- finalize the vote procedure and send the corresponding email to the election list - AC and DC representative should be elected. Candidates proposals and vote will be send to a unique email address ids.nc@cls.fr (J. Ray, B. Hayne & G. Tavernier). - CB will contact IAG and IERS about their representatives.	G. Tavernier
	 CB will propose 2*2 names for AC coordinator and Network representative, GB will elect them during next GB meeting (in SF in dec 2008 during AGU fall meeting) then, CB will propose names for the 2 members at large, and GB will elect them possible the same week. Then the GB chaiperson will be elected during the next GB meeting that could take place in March 2009 in Paris. 	L. Soudarin
IDS representative to IAG/GGOS	Will be the next GB chaiperson.	
FAGS	Pascal Willis met Nicole Capitaine: FAGS doesn't exist any more and will be replace	d



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membership	by the "World Data Systems". A new call for participation will be issued by the 2009. USD2000-3000 a year could be granted for travel support.	e end of
	IDS will wait for the call for participation (IVS, IGS will apply).	
	See action list table (end of the document)	
Review of actions items		
Switch to ITRF2005/ DPOD2005	H. Fagard is ready to switch to ITRF2005/ DPOD2005 for sitelogs and send the corresponding DORISMails. DPOD2005 current version is 1.4	e H. Fagard
IDS reports for 2003-2008	CB will put online the existing file (2003-2005), then the next report (2006-200 should start ASAP. CB will tell ACs that their contribution (max. 2-3 pages) is welcome, and support them in this task.	Central Bureau
IVS anniversary (2009)	Will take place in Bordeaux the 25 th of March, and presentations from techniques are expected.	n other
	F. Lemoine will participate. the next IDS WG meeting in Paris should be just the same period.	planned
Next IDS	- Next GB meetings: during AGU in San Francisco (dec 08), then during no WG meeting or/and during EGU (April 09) in Vienne.	ext IDS
Meetings	 Next IDS WG meeting: in Paris in March 2009 Next IDS workshop in 2010: to be organized jointly with next OSTST meother (like Cryosat2 meeting for example) 	eting or



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Action list (from previous IDS GB or WG meetings)

Last modifications are written in blue.

N°	action	Resp.	Opening date	Deadline	status
2	Provide information concerning DORIS ground antenna switch off and resets	H. FAGARD	14/11/2008	14/12/2008	open
7	Send information concerning the launch of Jason-2 satellite, the planned evolution of the DORIS constellation, and the end of DORIS/SPOT-2 data delivery	G. TAVERNIER		01/07/2008	open
9	Provide reference on previous articles related to TOPEX solar panel orientation	F. LEMOINE		01/07/2008	open
12	Check vector from center of mass to center of phase of the antenna and macro-models used by all software packages	all ACs		01/07/2008	open
13 B	Modify C21,S21, C21dot and S21dot in gravity field files per IERS conventions	all ACs		01/07/2008	open
13 A	Provide C21, S21, C21dot, S21dot values for ITG, EGM2008, EIGEN, GGM02C models to AC's. Remind AC's of locations of Gravity files. 13/11/08: Done but action shall be repeated	Frank Lemoine		16/06/2008	open
14	Check compatibility with IERS conventions (IAU, nutation, polar motion time series	all ACs		01/07/2008	open
15	Post information on IDS Analysis Forum concerning the formula used for data down-weighting at low elevation in different software packages	all ACs		01/07/2008	open
16	Provide information on atmospheric drag estimation for each AC on a satellite by satellite basis) through the IDS Analysis Forum.	All ACs		01/07/2008	open
17	Send letters of support for NCEP/AGRA service.	F. LEMOINE + all ACs		01/07/2008	open
18	Provide description of DORIS data analysis by AC, using the Excel template provided by IDS Central Bureau.	All ACs		01/07/2008	open
20	Investigate if TOPEX estimated SRP coefficients present a discontinuity around July 17, 1993 and post results on the IDS Analysis Forum	All ACs		15/07/2008	open
21	Redo STCD data files and plots using DPO2005 as a priori coordinates and update IDS Web site	L. SOUDARIN, P. WILLIS		15/07/2008	open
22	Provide new SINEX solutions for 2005 orbits at CDDIS (based on new POD orbits) at IDS data centers 14/11/08: closed, then action reopened	S. KUZIN		15/07/2008	open
24	Verify if geomagnetic storms are visible in current and older SINEX solutions (larger RMS with regards to ITRF2005) and post results through the IS Analysis Forum	JJ. VALETTE		15/07/2008	open
25	Finalize the estimation strategies between IGN and INASAN to make them complementary	P. WILLIS, S. KUZIN		15/07/2008	open
26	Finalize the estimation strategies between GSFC and Geoscience Australia to make them complementary	F. LEMOINE, R. GOVIND		15/07/2008	open



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	IDS			r age r	
27 A	Provide minimum requirements to become an IDS Analysis Center, based on estimation strategy provided by all ACs	F. LEMOINE		01/08/2008	open
27 3	Provide benchmark orbits, initial conditions, output for Benchmark periods on IDS or other website.	F. LEMOINE		01/08/2008	open
28	Post results (orbits and SINEX) for the 1 st benchmark period (December 1994)	All ACs		01/08/2008	open
	Investigate the feasibility for CNES to provide additional information on DORIS satellite maneuvers (amplitude and direction)	G. TAVERNIER, L. CERRI		01/08/2008	open
30	Investigate ways to provide feed-back to ACs on rejected station in the combination process (emails, Web site, files on ftp server,)	JJ. VALETTE		01/09/2008	open
32	Analyse results (orbits and SINEX) from all ACs for 1 st benchmark period (December 1994) and post results through IDS Analysis Forum or on IDS Web site	F. LEMOINE, JJ. VALETTE		01/10/2008	open
33	Investigate use of AGRA models in view of a possible presentation at the IDS Workshop	All ACs		01/11/2008	open
34	Reprocessing ENVISAT data correcting the time tagging issue and resubmit ENVISAT data files at IDS data centers	L. CERRI		01/12/2008	open
35	About GRASP (Y. Bar Sever, JPL): on-board colocation (SLR, DORIS, GPS, VLBI) the presentation should be shown to the CNES programme directorate	P. FERRAGE	14/11/200	08 14/12/2008	open
36	About CITRIS, P. Bernhardt intends to submit a paper in the DORIS special issue. We must ask him for some news and about data availability		14/11/200	08 14/12/2008	open
37	With a 7-channel on-board Jason-2 and future satellites (CryoSat-2, SARAL), should we re-activate the station selection group? CNES should first define how many beacons are available and order more beacons if necessary, then a new "stations call for proposals" could be prepared.	P. FERRAGE	14/11/200	08 14/12/2008	open
38	Systematic detection of station disturbance: this will be implemented in SSALTO and IDS web site, a mail to finalize the principle will be sent to the GB/CB for confirmation, then implementation will start.	CB (P. FERRAGE)	14/11/200	08 14/12/2008	open
39	DATA documentation: Martine Feissel-Vernier's document should be checked and probably updated (format descriptions, readme files). Coherency between the document and the contents of both DCs will be checked by the Central bureau and the Data Flow Coordinator	CB (P. Ferrage), C. Noll	14/11/200	08 14/12/2008	open
40	RINEX files: DORIS report for RINEX delivery: check the possibility to implement at SSALTO level a process for a weekly report, or verify that such a kind of report can still be sent by POD team?	P. Ferrage	14/11/200	08 14/12/2008	open
41	TOPEX quaternions / document to be found => Action to confirm the need of TOPEX attitude quaternions, and provide the documentation if confirmed.	F. Lemoine	14/11/200	08 14/12/2008	open



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42	Envisat attitude quaternions: big files and formats are not easy to understand and to use, => a test could be done before doing anything on Envisat. Action to find and provide documentation+ a file example to F. Lemoine, then he will perform a test.	CB (L. Soudarin, PF)	14/11/200	8 14/12/2008	open
43	* implement automatic procedure to deliver quaternions of JAS1/JAS2 to Data Centers & put documentation on IDS website. * deliver to Data Centers and/or AVISO ftp old quaternions of JAS1/JAS2	P. Ferrage/ L. Soudarin	14/11/200	8 14/12/2008	open
44	DORIS special issue in Advances in Space Research 2009: Frank Lemoine will contact other Analysis Coordinators about recommendations for citations	F. Lemoine	14/11/200	8 14/12/2008	open
45	GB election :finalize the vote procedure and send the corresponding email to the election list	G. Tavernier	14/11/200	8 14/12/2008	open
46	GB elections: * CB will contact IAG and IERS about their representatives. * CB will propose 2*2 names for AC coordinator and Network representative, GB will elect them during next GB meeting (in SF in dec 2008 during AGU fall meeting) * then, CB will propose names for the 2 members at large, and GB will elect them if possible the same week	СВ	14/11/200	8 14/12/2008	open
47	H. Fagard is ready to switch to ITRF2005/ DPOD2005 for sitelogs and send the corresponding DORISMails. DPOD2005 current version is 1.4	H. Fagard	14/11/200	8 30/11/2008	open
48	IDS activity report: CB will put online the existing file (2003-2005), for the next one: (2006-2008) CB will tell ACs that their contribution is welcome, and support them in this task.	СВ	14/11/200	8 14/12/2008	open