

December 14, 2009

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IDS GB meeting

San Francisco, AGU fall meeting, December 14, 2009

AGENDA:

- Election of Network representative
- B. Garayt: Network status
- P. Ferrage : update on DORIS instruments and satellites
- L. Soudarin: Central Bureau & IDS web
- F. Lemoine : IDS combination/ITRF2008
- P. Willis : DORIS Special Issue
- P. Willis : GGOS/IERS UAW meeting
- F. Lemoine : IDS station selection group
- P. Willis : DORIS ionospheric product (how to generate users?)
- P. Willis: DPOD2005
- C. Noll: Data centers: DORIS data, products
- P. Willis: CITRIS
- P. Willis : IDS terms of reference (do we need to prepare a revision?)
- P. Willis : STCD format
- P. Ferrage: IDS workshop in Lisbon
- F. Lemoine : AC meetings in 2010
- P. Willis : next IDS GB meeting
- L. Soudarin : review of previous list of actions

MAIN DECISIONS :

ATTENDEES: Chopo Ma, Pascale Ferrage, Carey Noll, Frank Lemoine, Laurent Soudarin, Pascal Willis, John Ries Excused Michiel Otten

Election of Network representative	B. Garayt is unanimous elected as network representative within the IDS Governing Board	
DORIS Network	Fairbanks: this station is to be relocated in summer 2010.	
	Coldbay is a possible replacement site (better visibility/coverage, no masking). The host agency is the US Coast Guard. A verbal agreement for the installation has been given.	
	On the other side, the host agency in Fairbanks would like to keep a DORIS station in Fairbanks.	
	There is no interest to have both stations.	
	➔ The choice is under discussion:	
	Co-location in Fairbanks: GPS (IGS), VLBI closed for 5 years, no information for a new NG VLBI station there.	
	Co-location in Coldbay: GPS (not IGS)	
	Riyadh: it is forbidden to broadcast in 2GHz in Saudia Arabia.	
	Discussion shall continue at a higher level, Bruno Garayt is still confident. As soon as the authorization is given, the station can be installed. The host	





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	agency would like to implement an analysis center there.	
	Tamanrasset : On the good way, should be installed in 2010. Host a INCT, agreement in progress. Co-location: Absolute gravimeter.	agency:
	Russian beacons; Badary and Krasnoyarsk have started again, Yuz expected for the beginning of 2010	zhno is
	- Papeete has been the 4 th master beacon since November 27 2009	
	- 20 Remote control PC (Iridium PC) will be deployed in 2010	
	- Beacon 3.1 will be the new baseline (mid 2010): reliability impro thanks to simplified functioning.	vement
	- Beacon 3.2: longer cable length up to 100-200m: deported amplifier, u reduce masking and multipath, reserved for specific sites. Also availa 2010	
Update on	Future missions:	
DORIS instruments and satellites	CRYOSAT-2 (ESA) – Launch: <u>February 25, 2010</u> , Dniepr; Life time: 3.5 Tracking systems: DGXX + LRA	5 years;
	Pascale to check when DORIS data will be available at IDS DC.	
	Answer: DORIS 1.0 (RINEX) files should be available about 15 day launch (end of LEOP), DORIS 1B 3 weeks later.	vs after
	PLEIADES (DGA) - Launch: Nov 2010 (2nd Soyouz launch in Kouro satellite launched 10-18 months later. DORIS data will not be available f	
	SARAL/ALTI-KA (ISRO) - Launch: <u>expected for mid 2011</u> , (official September 2010); Life time: 5 years; Tracking systems: DGXX + LRA +	
	HY2A (CNSA) – Launch: expected March 2011 (official date is Dec 201 time: 3 years; Tracking systems: DGXX+LRA+GPS; then HY2B, 2C, 2 be confirmed	
	SENTINEL3A (GMES) – Launch: <u>2013;</u> Life time: 7 years; Tracking sy DGXX+LRA+GPS; Sentinel 3B: 2017, 3C, 3D: to be confirmed	vstems:
	JASON3 (Eumetsat/NOAA/CNES): just confirmed at CNES level, d extended for Jason founds; Launch: <u>foreseen for end 2013;</u> Tracking sy DGXX+LRA+GPS	
	SWOT (Surface Water Ocean Topography) - Launch: <u>2018:</u> T systems: DGXX+LRA+GPS	racking
CB news and IDS web	-5 persons in the CB:	
IDS web	Laurent Soudarin (CLS, chair), Pascale Ferrage (CNES), Pascal Willis (Jérôme Saunier (IGN), Jean-Jacques Valette (CLS)	IGN),
	 New web adress: ids-doris.org to be used right now in documentation papers 	IS,
	- IDS combination page: update in progress (IDS3/ITRF2008)	
	- POE statistics with global rms for each satellite will be available in Jan 2010.	uary
	- New table: station events (data gap or corrupted data). This table is automatically updated with corresponding emails (Dorisstation).	
	About discontinuity events detected on MOE residuals, P. Willis wishes first informed, and then he will give agreement to send a Dorisstation matrix	
	- IDS web: new editor allowing simplified updates. End of migration plan	ned for





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	mid January.	
ITRF2008/ IDS	The IDS combination for ITRF2008 was performed in 3 steps:	
combination	IDS1 (Fev 09): scale issue for GAU and GSF	
	IDS2 (May 09): 2001-2002 re-processing, problem with periodic signals (annual and 120 days) for LCA & INA	
	IDS3 (Sep09): final combination, good exercise, improvements observed, b 2 critical points must be still improved:	but
	 TZ signal correlated to solar cycle → necessity to update radiation pressure model 	
	- Troposphere model shall be upgraded (GMF recommended)	
	Nevertheless the IDS3 combination is an excellent result with the contribution of 7 analysis centers. None of them perturbs the IDS combination which is better than each individual solution.	on
	About IDS operational combination:	
	 - an AWG meeting is planned for April, at ESOC in Darmstadt if confirmed I M. Otten. Frank Lemoine will send an email to the AWG. 	by F. Lemoine
	- Works on CATREF are in progress at CLS/CNES. The objective is to improve the IHM, the pre-processing, the sorting of the input solutions, increase the number of error messages and their level of detail The use of shared configuration management tool allows maintaining a unique version CATREF.	
	- Pascal Willis suggests that ACs provide their new SINEX of the 6 first months of 2009.	ACs
DORIS special issue 2009 in	26 papers have been submitted, 4 are accepted, 1 rejected. 4 others are go to be accepted in January, the others are still reviewed.	oing
Advances in Space Research	The printed Doris special issue is expected before summer 2010.	
GGOS/IERS	- Slow progress of the portal.	
UAW meeting	- Discussion between technics led to common agreements to use compatib models.	ble
	- People are preparing the next ITRF (2015?): discussion on how to make parameterization more extensive, modelling improved	
	- New IERS working group on SINEX to be created	
IDS station selection group	Pascal Willis suggests closing this group (in 2010) until the situation of bear availability is stabilized at CNES. Indeed no order is planned until mid 2010 and a manufacturing schedule will be established later.	
	The objective is to re-start the discussion about IDS station in Lisbon (Oct 2010) during the IDS workshop:	
	 New information about beacons availability, 	
	- Define a new strategy (more detailed application form, ask for budg	get



International DORIS Service

San Francisco

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DORIS ionosphere product The objective is to have other groups using IDS iono products. Pascal Willis has contacted JPL, Berne, IGS iono group but they didn't show a big interest. However, the topic could be reconsidered if the TEC is included in the DORIS/RINEX/files (short delivery delay, GPS-like format). Pascale Ferrage explained that this is not foreseen at CNES level to provide such files. This is not so easy than for GPS RINEX files. Indeed, TEC data can be computed using the phase measurements given in DORIS RINEX likes, but with an ambiguity error that can not be solved using the code (pseudo-range) measurements (low accuracy, about 50m) → this requires a processing the POE (or MOE) results. Such activity is not a priority for CNES. Pascal Wills will confirm the interest of the inong groups to use DORIS Sabolite to compute solution: ACs could perform such process and provide the consporting product. P. Willis, P. Ferrage DPODD/IDS08 Def Solution: ACs could perform such process and provide the consporting product. P. ORIS data ada - DORIS data ada - DORIS data, Jason-2 new format: name convention and structures adopted without any problem. - OLD Solute TRE/DOB to discuss. - OLD Solution: Acs solar panel angles files are now available for Jason1 and Jason2. - Topex quaternions are not available; guaternion files are not used by the SOD team, since the nominal attitude law is accurate enough. - About Cryosal2, the decision to provide IDS with attitude guaternion files will depend on SOD learn mediaw. Indeed, there are 3 different quaternion files one per star tracker, one data every second, a new file at each passes (about 13 pass a day). → Many big files that require several process to obtain the sat	105			
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whole mission)		•	3 (the	





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IDS		- ge e
	 All ephemeris POE files All DORIS data files but with an internal format of a former version of 2 software (FIMBI format) : → need to find the description of this format (this should be possible). → need to develop a tool to convert these files in DORIS1B format V2.2 implies that ACs are able to process V1.0 and V2.2 in the same period. 	2. This
CITRIS data	P. Willis has contacted P. Bernhard (who has submitted a paper to the I special issue). P.B. agrees to send data to IDS in the required format / r convention. Action to BC to define required format. 1 month of data (1 data / 10s) wi asked for test.	name
IDS organization aspects	Need to form a small group chaired by M. Pearlman to update the IDS of Reference (comparison with other services)	Terms
Next IDS Meetings: Workshop, AWG, GB	 The next IDS workshop will take place in Lisbon 21-22 October. P. F. Will send a DORIS mail (ready to be sent) as soon as she has the agre of OSTST organisation committee (before mid January). CNES/IGN is willing to support DORIS host agencies to attend this wo P. Willis will ask Herman Drewes about IAG sponsorship. (see Pascal' 2009/12/16) The next IDS Analysis Working Group meeting is scheduled in spring Frank Lemoine will send an email to AWG (see Frank's email 2009/12/17) The next GB meeting will take place in Lisbon (specific room if possi Willis suggests to schedule the poster session the last day at 4:00 pm, a GB meeting at 5:00pm. 	reement orkshop. 's email og 2010. 16) ible). P.
Review of actions	See updated xls file "IDS actions_2009_12_14"	