



**GOVERNING BOARD MEETING**  
**Paris, France, March 13, 2008**

**AGENDA:**

- DORIS instruments: status of satellites, future missions
- New analysis centers, review of GOP
- Data Centers & IDS web pages
- CITRIS
- Plans for 2008 IDS Analysis Workshop
- DORIS special issue following Analysis Workshop
- Review of ToR and terms of GB members
- Network, status of beacons, future stations
- Review of actions items from 2006 position paper
- Switch to ITRF2005 for the sitelogs and DORIS-mails, status of DPOD2005
- IDS report for 2006, 2007
- Review of actions from the GGOS UAW
- Next GB Meeting

**MAIN DECISIONS :**

- Preparation of the IDS combination for the next ITRF
- IDS Analysis Workshop November 2008
- New DORIS special issue

**ATTENDEES:**

Governing Board: Hervé Fagard, Frank Lemoine, Carey Noll (telecon), Laurent Soudarin, Gilles Tavernier, Pascal Willis

Guest: Karine Le Bail

**DORIS instruments:  
status of satellites,  
future missions**

To achieve scientific accuracy a minimum constellation of 4 contributing DORIS satellites is necessary. This should be achieved for a while: see below.



There are currently 5 + 1 (CITRIS) flying DORIS satellites, but only 4 really contribute: SPOT-2, 4 and 5 and ENVISAT.



Launches to come:

- Jason-2/OSTM: assembly, integration and tests OK, Operational Readiness Review in April, Launch June, 15th
- CryoSat-2: May 2009
- SARAL / Alti-KA: 2010
- Pleiades-1: end 2009 – beginning 2010 (will not contribute)
- Pleiades-2: June 2011? (will not contribute)
- Sentinel 3: November 2012. CNES contribution: DORIS receiver + altimetry data processing

Possible future missions:

- HY-2A: June 2010? Chinese altimetry mission with a DORIS receiver
- Jason-3: end 2012?
- CEMIT.

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	<ul style="list-style-type: none"> <li>- SEOSAT: 2011?</li> <li>- EarthCARE (ESA): 2013? (3+years) - DORIS + GPS</li> <li>- GRASP (Y. Bar Sever – JPL): on-board collocation (SLR + DORIS + GPS + VLBI)</li> </ul> <p>Gilles Tavernier will prepare a DORIS Mail about these missions, after checking the status and agreement of different partners.</p> <p>A summary of the CNES Mission Group report will be prepared in English and sent to the DORIS Mail.</p>	<p>G. Tavernier</p> <p>G. Tavernier</p>
<p><b>New Analysis Centers, review of GOP</b></p>	<p>Petr Stepanek, from the Geodetic Observatory Pecny has achieved very interesting results. As a recognition, he would need a letter by IDS, accepting GOP as an official Analysis Center.</p> <p>Criteria to be accepted as an Analysis Center:</p> <ul style="list-style-type: none"> <li>- Stations coordinates time series: 1 year of data (2005) to be tested with current ACs products, to check that is is compatible,</li> <li>- Orbits: January 2005, should compare reasonably with existing orbits</li> <li>- Commitment to deliver products on an operational basis.</li> </ul> <p>“Old” Analysis Centers should pass these criteria.</p> <p>Other possible new Analysis Centers should be contacted (e-mail):</p> <ul style="list-style-type: none"> <li>- ESOC: J. Dow, T. Springer, M. Otten</li> <li>- TU Delft</li> <li>- University of Texas</li> </ul> <p>The Analysis Coordination, with the support of the Central Bureau, will send the list of criteria to all the ACs, and will evaluate them. Results of the evaluation will be given on the IDS Web site.</p>	<p>F. Lemoine</p> <p>F. Lemoine, L. Soudarin</p>
<p><b>Data Centers &amp; IDS web pages</b></p>	<p>Data, products, Data Centers structure: Martine Feissel-Vernier’s document should be checked and probably updated.</p> <p>The document and the contents of both DCs will be checked by the Data Flow Coordinator and the Central Bureau.</p> <p>New naming of Analysis Centers: two Analysis Centers wrote to the GB, proposing new names:</p> <ul style="list-style-type: none"> <li>- Laurent Soudarin for LCA: CNES/CLS &amp; GRG acronym</li> <li>- Pascal Willis for IGN: GRGS &amp; GRG acronym</li> </ul> <p>In order to avoid confusion and needless work for the data centers, the GB requires that the 'new' analysis center submit solutions with the new acronym at an agreed upon date, but that all files at the IDS data centers remain unaltered.</p> <p>Frank Lemoine will write to Michel Kasser, executive director of GRGS, asking for some clarification.</p> <p>Data &amp; products:</p> <ul style="list-style-type: none"> <li>- 2GXX (Jason-2 and Following missions) measurements in RINEX format: <ul style="list-style-type: none"> <li>- daily files</li> </ul> </li> </ul>	<p>C. Noll, L. Soudarin</p>

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	<ul style="list-style-type: none"> <li>- smoothed DIODE time tagging (1<math>\mu</math>s accuracy), precise time tagging before delivery (new specific tool not requiring POD)</li> <li>- data set to perform tests (1 cycle)</li> <li>- Launch June 15<sup>th</sup>, in-orbit assessment: 2 months → start of cycle 1 : between 1st and 15<sup>th</sup> of August, first data delivery : mid-August?</li> <li>- TOPEX/POSEIDON &amp; Jason-1 quaternions: GGOS UAW action item. Such data require some information on about how to use them.</li> </ul> <p>Web pages</p> <ul style="list-style-type: none"> <li>- Network update</li> </ul>	<p>Central Bureau</p>
<p><b>CITRIS</b></p>	<p>Paul Bernhard should be reminded that we are expecting a DORIS Mail about the status of the CITRIS mission and current results</p> <p>Then, the IDS GB will ask for the data.</p>	<p>G. Tavernier, L. Soudarin</p>
<p><b>Plans for 2008 IDS Analysis Workshop</b></p>	<p>2008 OSTSTM and associated events will be November 10-15 in Nice :</p> <ul style="list-style-type: none"> <li>- OSTSTM: November 10-12.</li> <li>- GODAE symposium: November 12-15</li> <li>- IDS Workshop: November 12-14</li> </ul> <p>IDS Workshop could consist in ½ day for general information (system, missions, network, IDS) and 2 days devoted to Analysis: products comparison, combination:</p> <ul style="list-style-type: none"> <li>- System: satellites, network, system improvements, new data format, future missions</li> <li>- IDS: organization, analysis coordination, analysis centers, data centers and data flow</li> <li>- Geodesy, Reference frame, Earth's rotation</li> <li>- Precise Orbit Determination</li> <li>- Geophysics, atmospheric sciences (troposphere and ionosphere)</li> <li>- new DORIS applications &amp; products</li> </ul> <p>Abstract submission</p> <ul style="list-style-type: none"> <li>- Submission open April 2008 (DORISMail soon)</li> <li>- Deadline: Friday 26 September 2008</li> <li>- acceptance of abstracts notified 2nd of October 2008</li> </ul> <p>In order to finalize the processing standards before starting the ACs reprocessing for the IDS combination (ITRF2008 contribution) an new <b>Analysis Working Group Meeting will be organized in Paris, June 5-6.</b></p>	
<p><b>DORIS special</b></p>	<p>Pascal Willis will act as guest editor for a new DORIS special issue of Journal of</p>	

<p><b>issue following Analysis Workshop</b></p>	<p>Geodesy.</p> <p>Schedule:</p> <ul style="list-style-type: none"> <li>- call for paper (DORISMail): September</li> <li>- Analysis Workshop: November</li> <li>- Deadline to submit papers: February or March 2009 (at least 3 months after the Workshop)</li> <li>- Publication: end 2009-beginning 2010</li> </ul>	
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<p><b>Review of ToR and terms of GB members</b></p>	<p>GB members designation:</p> <ul style="list-style-type: none"> <li>- 3 Appointed members: IAG &amp; IERS representatives, CB director</li> <li>- 2 Analysis Centers and Data Centers representatives</li> <li>- 4 Network representative, Analysis Coordination, 2 members at large</li> </ul> <p>A nominating committee will prepare a list of candidates (2 names for each of the 6 positions): G. Tavernier will contact Ron Noomen and Bruce Haines to ask them if they agree to take part to this committee.</p> <p>The committee will send a DORISMail asking for candidates for the 2008-2012 term: IDS members can either candidate or suggest names.</p> <p>IDS associates will only vote for the first two positions (Analysis Centers and Data Centers representatives).</p> <p>The GB will elect the 4 other members (Network representative, Analysis Coordination, 2 members at large).</p> <p>The new GB will then elect a president.</p> <p>CB will prepare a DORIS Mail describing the election procedure (organization, schedule) and ask for candidates or nominations. The procedure shouldn't be too long: 1 month at most.</p> <p>CB will contact IAG and IERS about their representatives.</p> <p>Add on the Web site the terms of each GB member.</p> <p>Terms of Reference:</p> <ul style="list-style-type: none"> <li>- No Combination Centers exist as such. ILRS, for instance has 2 Combination Centers. Should we ask a new group to join?</li> <li>- We could contact current IGS, ILRS and IVS Combination Centers to see whether one of them would consider combining a DORIS solution and then send a call for participation early 2008. The existing and new Combination Centers would stand at the same level.</li> <li>- ToR could remain as is until next term when we might consider updating it</li> <li>- Anyway, for ITRF2008, we'll have to know what we give to IERS: a combination? The best solution?</li> </ul> <p>Combination organization:</p> <ul style="list-style-type: none"> <li>- Specific tasks should be identified</li> <li>- A schedule should be prepared</li> </ul> <p>Frank Lemoine will prepare this organization with Jean-Jacques Valette and then submit it to Pacal Willis and Laurent Soudarin and update it if necessary.</p>	<p>L. Soudarin</p> <p>L. Soudarin</p> <p>L. Soudarin</p> <p>F. Lemoine, J.J. Valette</p>
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## International DORIS Service

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<p><b>Network: status of beacons, future stations</b></p>		
<p><b>Review of actions items from 2006 position paper</b></p>	<p>2006.4.0: Decide orbit format for analysis campaigns. Sp1 is currently used. Should we keep sp1 or go for sp3c like other services? Probably yes. Laurent Soudarin will provide sp3c orbits for tests.</p> <p>2006.9.0: Harmonize a priori positions in all STCD files: waiting for DPOD2005</p> <p>2006.9.1: Ensure that all AC's can create STCD files and associated plots. Sergey can do it but prefers that Laurent does it</p> <p>2006.9.2: Publicize availability of STCD files and plots among the geophysics community – DORIS Mail + IGS + IVS + ILRS + GGOS</p>	<p>L. Soudarin</p> <p>Central Bureau Central Bureau Central Bureau</p>
<p><b>Switch to ITRF2005 for the sitelogs and DORISMAILS, status of DPOD2005</b></p>	<p>Switch to ITRF2005 for sitelogs and DORISMAILS should be done for all the stations at the same time. This requires that DPOD2005 is available.</p> <p>A first complete solution for DPOD2005 is available, expecting final validation.</p>	
<p><b>IDS report for 2006, 2007</b></p>	<p>IAG expects a report for 2003-2007</p> <p>CB will send existing contributions to be updated to authors.</p>	<p>Central Bureau</p>
<p><b>Review of actions from the GGOS UAW</b></p>	<p>Preparing delivery of TOPEX/POSEIDON and Jason-1 quaternions.</p>	
<p><b>Next GB Meeting</b></p>	<ul style="list-style-type: none"> <li>- Next IDS AWG (Paris, June 5-6)?</li> <li>- Frank Lemoine will send an acknowledgement letter to André Lebeau, director of "Bureau des Longitudes".</li> </ul>	