



Munich

April 5, 2019

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## IDS GB meeting

The meeting is dedicated to the memory of Richard Biancale

### AGENDA:

GB election results and IAG rep.  
review of current list of actions  
IDS retreat and strategic plan: current status  
Analysis Coordination: report  
Combination Center: report  
WG NRT data: report  
Proposals of WG: Geocenter, SAA  
DOI issues  
IDS technical notes  
Activity reports 2018  
Next IDS newsletter  
Next events  
List of IDS associates: proposals?  
AOB

### MAIN DECISIONS:

### ATTENDEES:

<u>GB members</u>	Claudio Abbondanza, Hugues Capdeville & Petr Štěpánek, Denise Dettmering, Pascale Ferrage, Frank Lemoine (chair), Guilhem Moreaux, Jérôme Saunier, Laurent Soudarin
<u>Excused</u>	Brian Luzum, Patrick Michael
<u>Missing</u>	IAG rep. (not yet designed)

<b>Actions list</b>	See appendix
	<p>Jérôme Saunier took over Bruno Garayt as responsible of IGN data center for IDS</p> <p><b>Action GB_19_01</b> (Laurent): The Central Bureau will update the website</p>
<b>Review of current list of actions</b>	<p><u>Actions closed:</u> GB_16_20, GB_17_13, GB_18_07, GB_18_14, GB_18_21, GB_18_23, GB_18_28, GB_18_34, GB_18_35, GB_18_36, GB_18_37</p> <p><u>Still open:</u> GB_14_18, GB_16_12, GB_17_06, GB_17_07, GB_17_14, GB_18_02, GB_18_06, GB_18_08, GB_18_27, GB_18_29, GB_18_30, GB_18_31, GB_18_32, GB_18_33</p> <p>Action GB_18_35 closed and replaced by <b>Action GB_19_02</b> (Analysis Coordination + Central Bureau): check availability of all the softwares (contact Tim Springer for Napeos); CB will prepare a table on the website with links to softwares' webpages, information about licences if any.</p>
<b>IDS GB</b>	<p><b>Election results</b> For the next elections in 2020, the central bureau Take care of the calendar. Continuous update of the associates.</p> <p><b>IAG rep.</b> The GB proposes Ernst Schrama and Daniella Thaller.</p> <p><b>Action GB_19_03</b> (Laurent): contact Ernst and Daniella to get their agreement before submitting their name to IAG EC</p>
<b>IDS retreat and strategic plan</b>	<p><u>Previous meetings</u></p> <ul style="list-style-type: none"> <li>• June 13 &amp; 14, 2018: IDS retreat</li> <li>• September 2018: GB Meeting in Paris</li> </ul> <p>debriefing of the Retreat, finalization of the minutes and discussions about the strategic plan.</p> <p><u>Next steps to plan:</u></p> <ul style="list-style-type: none"> <li>• April – Sep. : 1 or 2 GB telecons to elaborate a preliminary IDS strategic plan</li> <li>• Sep. or Oct. 2019: consultation with the DORIS system stakeholders (meeting of CNES &amp; IGN DORIS steering committee)</li> <li>• Then: strategic plan with medium and long term actions</li> </ul> <p>A telecon will be organized just after EGU. All GB members will be invited. IDS wishes September for the consultation with the stakeholders.</p> <p><b>Action GB_19_04</b> (Pascale): organize telecon after EGU</p>
<b>Analysis Coordination</b>	<p><u>Report of AWG meeting</u> The main objective of this meeting was the IDS contribution to the ITRF2020. A road map written by Analysis coordination will be sent to ACs and CC for IDS preparation</p>

	<p>for the next ITRF.ACs and CC have to work on 4 following essential items:</p> <ul style="list-style-type: none"> <li>• Adopt and evaluate the new models/standards (TVG, HF-EOP model, ocean tides, ...).</li> <li>• SAA compensation.</li> <li>• Elevation cut off and data downweighting.</li> <li>• Modeling improvement. Attempt to mitigate the non-conservative force model error on satellites (draconitic signals).</li> </ul> <p>Each topic will be led by one AC with one of the analysis coordinators. The leader will follow the work made by the ACs and CC and will present a synthesis at the next IDS AWG in Paris planned on 30th September and 1th October in Paris, just before UAW meeting.</p> <p>CNES will invite Sergey Kuzin in Paris. ACoord points out that data and models must be available for the processing for ITRF2020.</p> <p><u>UAW meeting, Paris, Oct. 2-4</u> 3 or 4 people expected for each technique + Analysis Coordination + Central Bureau + GB Chair.</p>
<p><b>Combination Center</b></p>	<p><u>DPOD2014</u> version #4 is in preparation</p> <p><u>Routine combination</u> Contributions are regularly well received from GOP, IGN, GSC and GRG. INA: Sergey does not have a license to use the new Gipsy software. ESA: radio silence. Expected: SINEX after 2014, esa10 series.</p> <p><u>ITRF2020</u> The CC suggests that IERS provides a regular status of the ITRF2020 calendar. IDS made effort to respect ITRF2014 calendar, but would have appreciated having more time.</p> <p><b>Action GB_19_05</b> (Frank + Guilhem): contact ESA, reminding IDS needs its participation. <b>Action GB_19_06</b> (Frank + Guilhem): request from the IERS DB a regular status of the calendar on behalf of the GB</p>
<p><b>WG NRT data</b></p>	<p>Nothing new to report. Problem to get feed back from WG members. DGFI plans a publication Pascale reports that the request made to CNES for the NRT delivery of the data has not yet been analyzed.</p>
<p><b>Activity reports 2018</b></p>	<p><u>IDS activity report</u> Only a few contributions received. Deadline extended to April 19. The CB will send a reminder.</p> <p><u>IERS activity report</u> Expected contribution for « Technique Centre: International DORIS Service » (2-7 pages) Deadline May 15 The CB will write the report from the contributions to the IDS AR and summaries provided by CC and ACoord..</p> <p><u>IAG Reports July 2015 – June 2019</u> Deadline June</p>

	<p>The IAG Reports (Travaux de l'AIG) of the past quadrennial (July 2015 - June 2019) will be presented at the IUGG/IAG General Assembly. The CB will write the report from the report 2015-2017.</p>
<p><b>Next newsletter</b></p>	<p>#6 issue in February 2019 Laurent reports that the editorial line has now been clear for a few issues:</p> <ul style="list-style-type: none"> <li>• Network</li> </ul> <p>Focus on areas or new station or site in link with an event (Earthquake, meeting, ...) Promote host agency (insert written by HO)</p> <ul style="list-style-type: none"> <li>• IDS life</li> <li>• Other articles: meeting report, new products, new mission, ...</li> </ul> <p>The format is 6 pages which offers 2 additional pages for the printed version. The content is to be defined.</p> <p>Article ideas for the next issue: installation in San Juan (Argentina), poster IUGG, preparation for ITRF2020, ...</p> <p>The distribution list should be extended. Guilhem proposes to add to the authors of the papers in the IDS list.</p> <p><b>Action GB_19_07</b> (Laurent): send the distribution list to the GB for proposal of new recipients</p>
<p><b>Next events</b></p>	<p><u>IDS participation to the forthcoming meetings:</u> IUGG: Petr and Frank GGRF: Frank and Laurent UAW: list to define</p>
<p><b>Proposal for IDS associates</b></p>	<p>We still need to find missions contacts (Saral, HY-2A, Cryosat-2, Jason-CS). Jérôme gives Laurent contacts in China, from the Institute of Geodesy and Geodynamics, Chinese Academy of Surveying &amp; Mapping, in Beijing, agreed to be added to the list of Associates.</p>
<p><b>AOB</b></p>	<p><u>New WG</u> Alexandre Couhert proposes an IDS WG on the « Observation of Geocenter Motion » with the objective to provide a new IDS product. The GB agrees to call for participation. Alexandre will be asked to write 1 or 2 paragraphs describing the goals of the WG. It will be submitted to the GB, then to ACs before the call is sent. In addition, the GB agrees that Alexandre chairs the IERS WG on the Geocenter.</p> <p><b>Action GB_19_08</b> (Hugues): ask Alexandre Couhert to write 1 or 2 paragraphs describing the goals of the WG, and forward GB's approval to chair the IERS WG.</p> <p><u>New IDS station</u> Mangilao will be included into the permanent network. Dionysos will be removed in 2020. It is a good opportunity to reconsider the proposition of S. Mertikas for a DORIS station in Crete. However, it is not interesting for IDS to have a second station in Europe. So the GB encourages CNES to move from Dionysos to Crete. The message will be relayed by Pascale at the next meeting of the CNES Groupe Performance.</p> <p>Some presentations of the Groupe Performances are interesting for the IDS (ex: station performances by Philippe Yaya). The GB ask CNES if they may be provided.</p>

	<p><b>Action GB_19_09</b> (Pascale): forward to Christian Jayles the GB's request for some presentations of the Groupe Performances.</p> <p><u>DGFI-TUM for AAC?</u> Denise will submit an application letter from DGFI to become AAC.</p> <p><u>New Zealand media query</u> A journalist of the NZ Herald contacted some of the GB members to get clarification about the New Zealand government's ban on the installation of a DORIS beacon in the Chatham Islands in 1990. The GB decides to make a response referring the request to the DORIS project and recalling the scientific applications of DORIS. Frank will prepare the response message.</p> <p><b>Action GB_19_10</b> (Frank): prepare a response and submit the draft to the GB before sending.</p> <p><b>Action GB_19_11</b> (Laurent): add the journalist of NZ Herald to the distribution list</p>
<p><b>Next GB meeting</b></p>	<p>In conjunction with next AWG meeting in Paris, on October 1<sup>st</sup>, afternoon</p>

Appendix: action list

new status, new actions and answers from GB meeting in Munich (2019/04/05)

N°	Origin	Title	Action	answer	Resp.	Opening date	Deadline	status
GB_14_18	GB	Availability of SAA-corrected data files for SPOT-5 and Jason-1	Check the availability of the Jason-1 data files corrected by GSC AC. Check them and upload them to the Data centers with documentation. Move Spot-5 and Jason-1 corrected data files to the « official » directory with an incremented version number.	<p>HC will complete Jason-1 and Spot-5 SAA corrected dataset. Jason-1 dataset complete. The two whole sets will be moved as soon as the last SAA Spot-5 files are provided 2016/05/26: full dataset of SPOT-5 SAA corrected OK; Hugues contacts Carey for file naming and archiving 2017/05/24: to avoid confusion with data provided by CNES, corrected dataset will be put in subdirectories with a specific name 2018/06/15: create a directory, move the files, readme file, DORISmail</p> <p>2019/04/05: directories created and files moved. Readme file and DORISmail still to be done</p>	F. Lemoine, H. Capdeville, Data Centers	28/10/2014	01/10/2019	open

GB_16_12	GB	ToR	propose a correction of the Terms of Reference about the duration of the Chairperson's period	<p>2017/05/24: take into account the correction chosen by the GB (maintain the Chair as ex-officio) and update the ToR</p> <p>2018/06/15: Frank will quickly check the proposition sent by Laurent</p> <p>2018/09/26: Frank would like to include some other modifications proposed at the Retreat:</p> <p>(a) clarify term of chairman.</p> <p>(b) In line with recommendation from IDS Retreat, think of more expansive language about IDS Mission, talking about IDS Mission in terms of more fundamental services to science and society.</p> <p>(c) the term "chairman" is sexist. Should we have another designation for this office?</p> <p>2019/03/31 B. Luzum: "the term "chair" is gender neutral and might be considered"</p>	Central Bureau + F. Lemoine	01/11/2016	01/10/2019	open
GB_16_20	GB	SAA effects	define together with the Analysis Coordination the contributions expected to test the SAA strategy, contact the ACs and evaluate the solutions	<p>Nov. 3: proposition for the tests sent to ACs by CC</p> <p>2017/05/24: resend proposition to ACs; perform test on jason-2</p> <p>2018/06/15: to be included in the preparation phase of the processing for the next ITRF; define strategies and a roadmap</p> <p>2018/09/26: see also action GB_18_31</p>	G. Moreaux	01/11/2016	31/12/2018	closed
GB_17_06	GB	new GGOS Joint Study Group	contact Michael Schmidt to join the study group JSG1 as IDS rep	<p>September 2017: email exchanges Frank-Michael about JSG1 and JSG2</p> <p>2019/04/05: JSG1 not activated but Denise is welcome. To be followed.</p>	D. Dettmering	24/05/2017	01/10/2019	open

GB_17_07	GB	DOI for DORIS datasets	organize a telecom with Patrick Michaël, Bruno Garayt, Jérôme Saunier, Pascale Ferrage and Laurent Soudarin about the DOI	2018/09/26: Petr proposes to add DOI for IDS Reports. Guilhem, Frank and Carey will address this issue at AGU with Daniela Thaler 2019/04/05: collect information about known services providing DOI Could IGN and CDDIS have the same DOIs? Objectives: DOI for IDS report 2018, DOI for IDS products/datasets for ITRF2020	F. Lemoine+L. Soudarin	24/05/2017	01/10/2019	open
GB_17_13	GB	HY-2A's quaternions	sent an official demand for HY-2A's quaternions and following missions	2018/09/26: Frank prepares a list of need for CNES (Jean-Michel Lachiver) to redirect 2019/04/05: Pascale sends information to Frank + ACoord+BC; solar panel is fixed, attitude law is geocentric	F. Lemoine, J.-M. Lemoine	24/05/2017	31/12/2018	closed
GB_17_14	CB	Quaternions	send a letter to Pierre Femenias asking for quaternions (and solar panel angles) of Envisat, Cryosat-2, Sentinel-3A&B (+ GNSS RINEX L1B Sentinel-3 ?)	-directly to IDS (optimal) -via SSALTO for delivery to DCs? 2018/09/26: Frank prepares an official request 2019/04/05: Analysis Coordination asks PF for Sentinel-3	F. Lemoine, H. Capdeville	12/07/2017	31/12/2018	open
GB_18_02	Retreat	Retreat	write a report	1. Marek leads the report 2. Complement by GM, FL, PF, LS 3. Notes from secretaries 2018/09/26: Working meeting on Sep 18 at CNES, Paris Work in progress 2019/04/05: telecon with Marek to be organized after EGU	M. Ziebart	15/06/2018	31/12/2018	open
GB_18_06	Retreat	Retreat	write thank-you letters (BdL, CNES, invited people)		F. Lemoine + G. Moreaux	15/06/2018	30/09/2018	open



GB_18_07	GB	Sinex Masterfile	contact the DCs for a storage solution of the Sinex Masterfile	2018/09/26: suspended; waiting for DPOD v3 2018/12/06: file stored on IDS ftp site (Dorismail 1151)	G. Moreaux	15/06/2018	31/12/2018	closed
GB_18_08	GB	EOP series derived from the combined solution	get approval of ACs for the EOP series	2018/09/26: 5 approvals; waiting for 1 answer (INA) 2019/04/05: Guilhem contacts Sergey Kuzin; Guilhem sends mail to IERS about new EOP product + reminder about combined products and DPOD paper	G. Moreaux	15/06/2018	31/12/2018	open
GB_18_14	GB	IDS elections	carry out the actions for the elections	2018/09/26: in progress 2018/12/21: announcement of election results (Dorismail 1155)	L. Soudarin	15/06/2018	31/12/2018	closed
GB_18_21	GB	Newsletter #6	provide an article about the activity with Matthis Blossfeld on the DORIS implementation in DOGS	2019/04/05: paragraph about Matthis's activity will be included in an article to issue when DGFI-TUM accepted as AAC	F. Lemoine	15/06/2018	15/11/2018	closed
GB_18_23	GB	Proposal for IDS associates	send the names of his contact in China	2018/09/26: in progress, waiting for agreement 2019/04/05: names sent to CB	J. Saunier	15/06/2018	31/12/2018	closed

GB_18_27	GB	Chip-scale atomic clock	Get Allan Variance of – “Chip-scale atomic clock” Check with Pat Michaels and Marek Ziebart.	Christian Jayles during the OSTST commented on the “chip-scale atomic clock”. He asked if it was cesium-based. “If it was cesium-based”, he said, “it would be totally inadequate.” Although cesium oscillators provide good long-term stability, they are too noisy on the short-term scale for use with DORIS measurements (i.e. time-scale of the DORIS count interval of 10 seconds). Christian said they have data to confirm this. When the H2 maser at Grasse failed, the DORIS beacon was connected to a cesium oscillator as a temporary expedient. The quality of the beacon (noise, RMS of fit) immediately went from the best in the network to the worst in the DORIS network. <i>2019/03/31 B. Luzum: "USNO has some expertise in atomic clocks and we might be able to help. Also, CSACs are likely to be rather different from what Christian is discussing." Frank will contact Brian</i>	F. Lemoine	26/09/2018	05/04/2019	<b>open</b>
GB_18_28	GB	Paper about DPOD	announce the paper DPOD by the mailing lists DORIS, ILRS, IERS	2018/11/27: announced with list of recent peer-reviewed publications (Dorismail 1149) <i>2019/04/05: announcement to IERS will be done in mail about new products (action GB_18_08)</i>	G. Moreaux/CB	26/09/2018	05/04/2019	<b>closed</b>
GB_18_29	GB	Cookbook for RINEX processing	Create a cookbook for RINEX processing	<i>2019/04/05: Matthis Blossfeld, Sergey Kuzin, Pascal Willis could review the document</i>	JML, HC with expected support of Alexandre Couhert and Flavien Mercier	26/09/2018	05/04/2019	<b>open</b>
GB_18_30	GB	Observable in RINEX	To create a document that better defines observable in the RINEX		JML, FL, with help from CJ, with solicited comments from Mathis Blossfeld, and	26/09/2018	05/04/2019	<b>open</b>

					John Ries			
GB_18_31	GB	Mitigation of SAA effect	To write a document with the list of strategies for mitigation of SAA effect on DORIS satellites (Jason-1, Jason-2, Jason-3, SPOT-5)		Analysis Coordination	26/09/2018	05/04/2019	open
GB_18_32	GB	Working Group on SAA	To propose charter for Working Group, work plan, and ideas for members, and submit to GB for consideration	2019/04/05: HC asks JML if still interested in	Jean-Michel Lemoine	26/09/2018	05/04/2019	open
GB_18_33	GB	Working Group on SAA	To check on how working groups have been formed for other IAG services. See about their topics, charter, and duration		Frank Lemoine	26/09/2018	05/04/2019	open
GB_18_34	GB	Scale and troposphere	To ask Tom Herring (IERS analysis coordinator) and Jake Griffiths (former IGS Analysis Coordinator), if there is a document or paper that summarizes experiences of GNSS analysts regarding effects of downweighting law and mapping functions on the GNSS scale, and the analysis of GNSS data.	2019/04/05: see paper of Xavier Collilieux, JGR, 2012.	Frank Lemoine	26/09/2018	05/04/2019	closed
GB_18_35	GB	Software	To formalize how GINS can be made available and to communicate	2019/04/05: question extended to all the softwares. New action GB_19_02	Analysis Coordination + Central Bureau	26/09/2018	05/04/2019	closed
GB_18_36	GB	Newsletter #6	to ask Rui Tiago Fernandes Marques to write a short article introducing CIVISA.	2019/02: Article published in Newsletter #6 as insert "The Host agency in short"	Jérôme Saunier	26/09/2018	31/10/2018	closed

GB_18_37	GB	NRT data	Draft an official letter to CNES. Request early dissemination of RINEX data and DIODE orbits within a 3hr latency as "near-real-time" products.	2018/11/14: Letter transmitted to Thierry Guinle (CNES) 2018/11/29: Thierry Guinle replies: "Thank you for letter and for your interest in Doris products. I agree that today, near real time data should be available to Users. This is already the case for a lot of products and DORIS must contribute. Nevertheless, even if the information is available, our current ground segment is not designed to export it; it needs upgrades. ==> I take into account your request as a potential extension of the SALP services that CNES provides to the IDS. We will study it and see in the next few weeks how it could fit with our schedule and our financial constraints. "	Frank Lemoine	26/09/2018	05/04/2019	closed
GB_19_01	GB	IGN data Center	Jérôme Saunier took over Bruno Garayt for the IDS Data Center at IGN. The Central Bureau has to update the website accordingly.		Laurent Soudarin	05/04/2019	01/10/2019	open
GB_19_02	GB	Softwares	check availability of all the softwares (contact Tim Springer for Napeos); CB will prepare a table on the website with links to softwares' webpages, information about licences if any.		Analysis Coordination + Central Bureau	05/04/2019	01/10/2019	open
GB_19_03	GB	IAG rep	contact Ernst and Daniella to get their agreement before submitting their name to IAG EC		Laurent Soudarin	05/04/2019	01/10/2019	open
GB_19_04	GB	Strategic plan	organize telecon after EGU		Pascale Ferrage	05/04/2019	01/10/2019	open
GB_19_05	GB	ESA participation	contact ESA, reminding IDS needs its participation		Frank Lemoine + Guilhem Moreaux	05/04/2019	01/10/2019	open

GB_19_06	GB	ITRF calendar	request from the IERS DB a regular status of the calendar on behalf of the GB		Frank Lemoine + Guilhem Moreaux	05/04/2019	01/10/2019	open
GB_19_07	GB	IDS Newsletter	send the distribution list to the GB for proposal of new recipients		Laurent Soudarin	05/04/2019	01/10/2019	open
GB_19_08	GB	WG Geocenter	ask Alexandre Couhert to write 1 or 2 paragraphs describing the goals of the WG, and forward GB's approval to chair the IERS WG		Hugues Capdeville	05/04/2019	01/10/2019	open
GB_19_09	GB	Presentations Groupe Performances	forward to Christian Jayles the GB's request for some presentations of the Groupe Performances		Pascale Ferrage	05/04/2019	01/10/2019	open
GB_19_10	GB	NZ media query	prepare a response and submit the draft to the GB before sending		Frank Lemoine	05/04/2019	01/10/2019	open
GB_19_11	GB	IDS Newsletter	add the journalist of NZ Herald to the distribution list		Laurent Soudarin	05/04/2019	01/10/2019	open