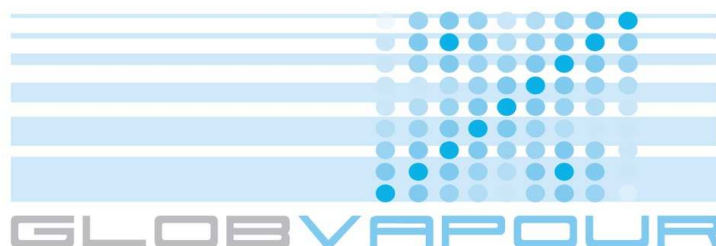




DUE GLOBVAPOUR

Progress Meeting 2

Minutes of Meeting



GLOBVAPOUR

Issue 1 Revision 0

26 November 2010

Project nr: ESRIN/AO/1-6090/09/I-OL

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Participants

[BB] Bojan Bojkov (ESA)	[MS] Marc Schröder (DWD)
[TW] Thomas Wagner (MPI)	[MSt] Martin Stengel (DWD)
[AD] Adrian Doicu (DLR)	[NS] Nadine Schneider (DWD)
[SS] Sander Slijkhuis (DLR)	[TS] Theo Steenbergen (DWD)
[RS] Roger Saunders (UKMO)	[HG] Hans Gleisner (DMI)
[KL] Katie Lean (UKMO)	[RP] Rene Preusker (FUB)
[BP] Bruno Picard (CLS), Day 1	[UP] Uwe Pfeifroth (UFrankfurt), Day 1

Agenda - first day

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|------|-------|--|-------------------------------|
| (1) | 12:30 | Welcome and Opening | Schröder, Bojkov |
| (2) | 12:45 | Actions from last meeting | Schröder |
| | | Status and next steps of development (Level 2 evaluation when available) | |
| (3) | 13:00 | GOME(2) - SCIAMACHY | Slijkhuis/Wagner |
| (4) | 13:30 | Combined SSM/I + MERIS retrieval | Stengel/Preusker |
| (5) | 14:00 | SEVIRI+IASI retrieval | Schröder/Stengel |
| (6) | 14:30 | Processing environment | Schröder (for Krämer) |
| | 15:00 | <i>Coffee break</i> | |
| (7) | 15:30 | Validation | Steenbergen/Schneider/Stengel |
| (8) | 16:30 | IASI assessment | Stengel/Lean |
| (9) | 16:50 | MWR retrieval and evaluation | Stengel |
| (10) | 17:10 | Altimetry requirements | Picard |
| (11) | 17:30 | Concluding discussions | All |
| | 18:00 | <i>Expected end</i> | |
| | 19:00 | <i>Dinner at Proviant Magazin</i> | |

Agenda - second day

- | | | | |
|------|-------|---|------------------|
| (12) | 09:00 | (A)ATSR plans | Lindstrot |
| (13) | 09:30 | Review of ATBD and PVR
(no presentation foreseen) | Bojkov, all |
| | 10:30 | <i>Coffee break</i> | |
| (14) | 11:00 | Newsletter, issue No. 2 | Schneider, all |
| (15) | 11:20 | Web update, also data access | Schneider, all |
| (16) | 11:40 | Status of User Group, User Workshop | Schröder, Bojkov |
| | 12:00 | <i>Lunch</i> | |
| (17) | 13:00 | Review of plans | Schröder, Bojkov |
| | | Updates to the Project Management Plan (PMP)
Metadata, filename convention
More next steps
Next meetings, conferences, ... | |
| (18) | 14:15 | AOB | All |
| (19) | 14:30 | Summary: Decisions and actions | All |
| | 15:00 | <i>Expected end</i> | |

Top	Issue	Com	Cat	Content	Actionee	Ref.	Status	Deadline
1.	Opening	MS, TW	I	MS and TW opened the meeting and welcomed all participants with a tour de table.		Item 1		
2.	Action Status	MS	I	<p>Discussion of the status of previous Actions from PM1.</p> <p>#1 A sensitivity study revealed some dependency of the WV retrieval on the background temperature. More analysis is required foreseen.</p> <p>#2 Gap Filling not considered useful, also because reliable uncertainties can not be provided for at least cloudy cases. No-data flag and/or cloud flag are to be used. RBD has been updated accordingly.</p> <p>#3 Living action.</p> <p>#4 NDACC data will become available soon. Not all stations provide useful data due to height sensitivity. Thierry Leblanc will attend the UW in Frascati next year. Action remains open.</p> <p>#5 Done/closed.</p> <p>#6 Done/closed.</p>		Item 2		
3.	Decision	MS	D	Gap Filling will not be done for GlobVapour products.		Item 2		
4.	Presentation	SS, TW	I	<p>On 'Biases between GOME-2 and SSM/I' and 'H2O from GOME-1 and SCIA'</p> <p>Homogenisation/cross-calibration of GOME-1, GOME-2, SCIAMACHY in radiance space is not planned, and not considered possible (TW/SS), due to different polarisation and sensitivities, and collocation problems.</p> <p>Next steps will focus on analysis of specific areas.</p>		Item 3		
5.	Presentation	RP	I	<p>On SSM/I - MERIS retrieval (1st Part)</p> <p>It is considered better not to mix SSM/I & MERIS and e.g. stick to MERIS at coast line areas.</p>		Item 4		

Top	Issue	Com	Cat	Content	Actionee	Ref.	Status	Deadline
				It would be interesting to see how the new 1D-VAR compares to the operational retrieval (RS). Differences should be demonstrated at next meeting (BB) and might be dominated by uncertainties in cloud detection. The theoretical approach of the radiation transfer method was discussed (AD/RP).				
6.	Decision	MS	D	For coastal areas the retrieval will only be based on MERIS data.		Item 4		
7.	Action #1	RP	A	Report on adjacency effects in the User Workshop in Frascati (March 2011)	RP	Item 4		10.03.2011
8.	Action #2	RP	A	Compare new algorithm for MERIS retrieval with the operational one.	RP	Item 4		30.06.2011
9.	Presentation	MSt	I	On SSM/I - MERIS retrieval (2 nd Part) The quality of 1D-Var retrieval schemes will be affected by background uncertainties (RS).		Item 4		
10.	Action #3	MSt	A	Explain pixel filling details in current version of ATBD	MSt	Item 4		10.12.2011
11.	Presentation	MSt, MS	I	On SEVIRI-IASI retrieval Questions arise whether it is worthwhile to proceed in full extend with the IASI+SEVIRI activities. Processing is computationally very expensive while the increase in quality seems to be marginal at first glance. The applicability of assumptions can also be questioned (see also action #10).		Item 5		
12.	Presentation	UK (by MS)	I	On Processing Environment		Item 6		
13.	Presentation	TS/NS	I	On Validation and Intercomparison results		Item 7		

Top	Issue	Com	Cat	Content	Actionee	Ref.	Status	Deadline
				<p>Comments on the statistics computation and representation were given, with an action for updating the documents (see action #5).</p> <p>It would be interesting to intercompare SSMI+MERIS vs GOME. Having 3 observational datasets enables a direct assessment of the quality given sufficient number of collocations and uncorrelated errors.</p>				
14.	Presentation	KL/MSt	I	<p>On IASI assessment</p> <p>A discussion started on using Jacobians or standard layer integrals of ground-based data. It was assumed that the effect is not large.</p>		Item 8		
15.	Presentation	MSt	I	<p>On MWR retrieval</p>		Item 9		
16.	Presentation	BP	I	<p>On Altimetry requirements</p> <p>Discussions led to the action #13 that the GV MWR and the operational MWR products should be compared.</p>		Item 10		
17.	Presentation	RP	I	<p>On AATSR</p> <p>FUB proposes to intensify work on scientific algorithm development.</p> <p>It was discussed that the quality of AATSR can be reasonable over oceans during night and outside sun glint. It was discussed how to proceed, see action #4.</p>				
18.	Action #4	RP	A	<p>Preparation of a detailed WP for AATSR investigations with defined milestones. To be discussed with ESA (RP/BB) in Frascati next week.</p>	RP	Item 12		15.11.2011
19.	Presentation	RS	I	<p>On 'Assessment of GV SSMI-MERIS and GOME retrievals'</p> <p>A comparison of observation data with model data is</p>		-		

Top	Issue	Com	Cat	Content	Actionee	Ref.	Status	Deadline
				shown, for the months of July 2007 and July 2008. It was suggested that variance will be used as additional information (MS/RS/BB).				
20.	Action #5	BB	A	PVRs: Better explain the term 'difference' used in the tables; update statistics in tables (break down the MERIS/SSMI validation to land/sea/coast; only use collocated observations of intercomparisons for all instruments; apply a weighting function to compensate for the latitude effect). Cross-comparison of SSMI-MERIS vs GOME etc. are to be put into the next major version of PVRs.	TS	Item 13		10.12.2010
21.	Action #6	BB	A	ATBDs: Issue of albedo for GOME to be added. Theoretical uncertainties are to be put in the next major version of the ATBDs.	TW, PRP	Item 13		10.12.2010
22.	Presentation	NS	I	On Newsletter Call for content is appealed: Info on how things are done should be added. Suggested topics: 'First products' and 'User Workshop'. The NL will be distributed on the AGU in December in San Francisco.		Item 14		
23.	Action #7	NL	A	Input to NL form partners.	All	Item 14		19.11.2010
24.	Action #8	BB	A	Generate the next Newsletter.	NS	Item 14		10.12.2010
25.	Presentation	NS	I	On Webpage All final documents shall be put on the intranet before the end of the year.		Item 15		
26.	Action #9	BB	A	MPI to supply popular-scientific info material (pictures and movies) for the updated web page, to be approved by ESA (BB).	TW/BB	Item 15		31.01.2011

Top	Issue	Com	Cat	Content	Actionee	Ref.	Status	Deadline
27.	Discussion		I	The user feedback reports have been compiled and submitted to ESA. The GEWEX+GlobVapour User Workshop will be held in Frascati on 8-10 Mar 2011. Timely announcement of participants is required for security reasons (BB).		Item 16		
28.	Decision	MS	D	The next PM3 will be organised in Frascati on 7 Mar afternoon (13:00-19:00), prior to the User Workshop.		Item 17		
29.	Discussion		I	Filename and Metadata Conventions: Agreed.				
30.	Action #10	BB	A	Update the PMP, considering: AATSR report from RP on next steps. Proposal on next steps related to IASI+SEVIRI. IASI assessment plan and comparison protocol.	MS	Item 17		10.01.2011
31.	Action #11	BB	A	Update the User Info for MS.	BB	Item 17		19.11.2010
32.	Action #12	BB	A	Contact NOAA & KIT for the IASI Assessment.	MSt	Item 17		17.12.2010
33.	Action #13	BB	A	Provide MWR comparisons.	MSt	Item 17		30.11.2010
34.	Decision	MS	D	The focus of the Test Phase shall be on systematic validation and intercomparison.		Item 17		
35.	Discussion		I	Following a new ESA procedure, a request for permission is needed prior to invoicing.		Item 18		

Conclusions

The project had a very productive and successful meeting at MPI Mainz on 9+10 November 2010. Significant progress was made and presented in all processor development, processing and validation packages. Only minor issues are foreseen for improvements of processors. The original plans for AATSR need to be revised and might lead to intensified scientific developments. The development of the merged IASI+SEVIRI processor has been finalised. However, the added value of the merging still needs to be demonstrated and might lead to a reconsideration of activities. The validation has already been

carried out intensively. Nevertheless it seems reasonable to increase efforts in phase 2 on this topic: Level 2 validation and product intercomparisons have high priority in future activities.

The set of deliverables (ATBDs, PVRs, User Feedback, and prototype products) has been discussed and reviewed. Minor comments were given so that their release is expected mid December 2010.

The promotion of the project and its first results is well advanced. The webpage has been largely extended and improved and the second issue of the GlobVapour Newsletter is foreseen for release in mid December.

In summary, the project successfully entered phase 2. The upcoming GEWEX and ESA DUE GlobVapour Meeting in March 2011, together with the next PM, will be the next basic dates of the project.