

WG 1 expert meeting (2nd) on the LAUTLOS campaign at Vaisala Helsinki, August 29-31, 2005.

Monday, August 29, 2005

Arrival of the participants. Your own transportation from Helsinki-Vantaa airport to Vaisala or to Helsinki down town. Transportation (Helsinki / Hotel Arthur -Vaisala) during meeting days are arranged. Additional information on block reservation at Hotel Arthur from Esko Kyrö. Further instructions are given in attached information document.

List of participants is included as appendix 2

08:30	Transportation from Hotel Arthur (Vuorikatu 19) to Vaisala	
09:00	Welcome to Vaisala	Director Erkki Järvinen
09:15	Opening of the meeting	Esko Kyrö (Chairman)
09:30	Update of the topics, amendments of Agenda	Esko Kyrö
09:45	Practical items for the meeting arrangements (lunch, coffee, factory tour,...)	NN/Vaisala
10:00-10:15	Coffee	
10:15	LAUTLOS data base, overview and Data bank data quality observations	Suortti , Kyrö, Kats
<p>Review and discussion of LAUTLOS papers, thesis works and research. List of papers is in appendix 1. Papers identified as “not started” (highlighted in blue) are either deleted from the program or given 5 minutes depending how strong indication of the realization of such paper are received prior to the meeting</p>		
11:00	Paper 1 Roadmap paper. Discussion	Esko Kyrö
11:15	Paper 2 a) Flash / NOAA -papers	Vladimir Yushkov (et al.).
12:00-12:45	Lunch	
12:45	Paper 2 b) Flash / NOAA -papers	Holger Vömel (xxxx et al).
13:30	Paper 3 a) Vaisala radiosonde evaluation	T. Suortti.
14:15	Paper 3 b) Vaisala radiosonde evaluation	T. Suortti. (et al)
15:00	Coffee	
15:15	Paper 3 c) Vaisala radiosonde evaluation	NN
16:00	Paper 4 Fn,SnowWhite and radiosonde evaluation	Ulrich Leiterer (et al)
16:45	Factory tour	NN/ Vaisala
18:00	Transportation to Hotel Arthur (Vuorikatu 19, Helsinki)	

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Continued authors of Lautlos papers present the preliminary analyze results and status of each paper

08:30	Transportation from Hotel Arthur (Vuorikatu 19, Helsinki) to Vaisala	
09:00	Paper 5 a) In situ validation of the LAUTLOS microwave profiles	N.Kämpfer
09:45-10.00	Coffee	
10:00	Paper 5 b) In situ validation of the LAUTLOS microwave profiles	D.Feist
10:45	Paper 5 c) In situ validation of the LAUTLOS microwave profiles	A.Haeefele
11:30-12:30	Lunch	
12:30	Paper 6 a) Satellites	Viju Oommen John (et al)
13:15	Paper 6 b) Satellites	Viju Oommen John
14:00	Paper 6 c) Satellites	NN
14:15	Coffee	
14:30	Paper 7 a) Scientific papers on LAUTLOS stratosphere	Marion Mueller (et al)
15:15	Paper 7 b) Scientific papers on LAUTLOS stratosphere	Alexei Kharpetchko(et al)
16:00	Paper 7 c) Scientific papers on LAUTLOS stratosphere	Rigel Kivi (et al.)
16:30-16:45	Breik	
16:45	Paper 7 d) Scientific papers on LAUTLOS stratosphere	Ulrich Leiterer (et al.)
18:00-22:00	Social event (at Vaisala)	
22:15	Transportation to Hotel Arthur (Vuorikatu 19, Helsinki)	

APPENDIX 1

Review and discussion of LAUTLOS papers, thesis works and research. Papers “not started” (highlighted in blue) are either deleted from the program or given 5 minutes depending how strong indication of the realization of such paper are received prior to the meeting:

1. Road map paper: Extensive technical document of the LAUTLOS campaign itself, LAUTLOS data base and summary of the results obtained, eg. in FMI report series, (Rigel Kivi, Esko Kyrö), Discuss about the need of such summary at Vaisala meeting (under consideration, not started).
2. Flash /NOAA-papers.
 - a) Vladimir Yushkov (Sergey, Alexander , et al.).Accepted Izvestia Russian Academie of Science. Atmos. and Ocean. Phys.
 - b) Flash and NOAA comparison, Holger Vömel (xxxx et al). Almost ready for submission.
3. Vaisala radiosondes evaluation papers:
 - a) Thesis work of T. Suortti.
 - b) The LAUTLOS data set evaluation of the RS-80 A/H, RS-90,RS-92 , FN-method. Assessing and applying different corrections; Tuomo Suortti (Ari Paukkunen,...?)
 - c) Comparison of operational radiosonde RS92 data with NOAA and FLASH (Holger Vömel, Ari Paukkunen , Tuomo Suortti, Rigel Kivi, ...). Not started.
4. FN-method and Snow-White research hygrometer comparison with operational radiosonde data.

"LAUTLOS upper-air humidity comparison – the first results". Ulrich Leiterer (Vladimir Yuskov, Roland Neuber, Paul Ruppert, Ari Paukkunen, Esko Kyrö, Dietrich G. Feist, Holger Vömel, Alexandre Kats, Thomas Brossi, Horst Dier, Tatjana Naebert). Instruments and Observing Methods – Report No. 82, WMO/TD-No. 1265, TECO-2005, Bucharest, Romania, 4-7 May 2005
5. In situ validation of the LAUTLOS microwave profiles.
 - a) Beat Deuber ET AL., "Middle Atmospheric Water Vapour Radiometer - MIAWARA: Validation and first results of the LAUTLOS / WAVVAP campaign", Journal of Geophysical Research Presented by N.Kämpfer
 - b) Aircraft paper. Dietrich Feist (et al.)
 - c) " Optimum combination of balloon and microwave profiles" Master thesis , Alexander Haeefe
6. Satellites:
 - a) AMSU/Radisonde paper: "Comparison of microwave satellite humidity data and radiosonde profiles: a survey of European stations" , Viju Oommen John and Stefan Muller .Open for discussion in ACP.
 - b) Viju's thesis work
 - c) Composite water vapor profiles during LAUTLOS using satellite data of CHAMP, AMSU, SAGE, HALOE, Not Started?

7. General scientific papers on LAUTLOS stratosphere:

- a) Marion et al. are re-writing the 1st paper : "Stratospheric Water Vapor in the Arctic Measurements and Modelling"
- b) Alexei Kharpetchko et al. "Transport of the water vapour in the winter Arctic lowermost stratosphere during LAUTLOS campaign in Sodankyla, Finland"
- c) Rigel Kivi et al., "Water vapor variability at the edge of the polar vortex"
- d) "Ice saturation and clouds in the Arctic troposphere during the LAUTLOS campaign over Northern Finland" , Ulrich Leiterer, (Tuomo Suortti ?, NN). Maybe expert for ice saturation and supersaturated undercooled clouds can be invited to team. General discussion.