

ASAPE General Assembly 2018

October 17th 2018, from 14:30 to 18:30 CEST

Niagara Falls (Canada), Ka and Broadband Communication Conference
&
ESA WEBEX Teleconference

List of participants

ESA (The Netherlands): A. Martellucci	(AMart)
POLIMI (Italy): C. Riva	(CR),
JR (Austria): F. Cuervo	(FC),
Joel Flavio	(JF).
M. Schmidt	(MS)
JSI (Slovenia): A. Svigelj	(AS)
BUTE: Laszlo Csurgai Horvath	(LCH)
TU Graz (Austria): F. Teschl	(FT)
TUE (Netherlands): Kees van't Klooster	(KvK)
IAP (Czech Republic): O. Fiser	(OF)
FFI (Norway): M. Rytir	(MR),
L Braten	(LB)
UCL (Belgium): Danielle Vanhoenacker	(DV)
Laurent Quibus	(LQ)
ONERA (France): X. Boulanger	(XB),
UPM (Spain): J. M. Riera	(JMR),
RAL/STFC (UK): S. Ventouras	(SV)
Charilaos Kourogiorgas	(CK)
Universad Privata Boliviana (Bolivia): Gustavo Siles	(GS)
NASA (USA): James Nessel	(JN)
AFRL (USA): G. Brost	(GB)
HUAWEI (China): Bin Wand	(BW)
Hejia Luo	(HL)
Work Microwave Gmbh (GE): Wailon Sun	(WS)
SED System (Canada): Dwain Stensrud	(DS)

Documents available on ESA DAPTIV sharefolder

URL: <https://login.daptiv.nl/>

Project Name: *ASAPE Group of the AlphaSat Aldo Paraboni propagation Experimenters*

Agenda ASAPE General Assembly 2018

Draft Agenda

1) Opening of the meeting

- Welcome
- Introduction of new participants
- Approval of the agenda
- Approval of minutes of last meeting (2nd IM 2019 Telco)

2) Report on the ASAPE Campaign

Status of the experiment at the end of the fifth year of campaigns

3) Presentations of ASAPE Experimenters

- Use of numerical atmospheric simulator in Graz (with UCL)
- Results of the experiment with NASA ground stations (TBC)
- Results of the experiment in Madrid (fade/interfade duration)
- Results of the experiment in Prague
- Results of the CNES/ONERA campaign & ONERA Time series Synthesiser
- The radio optical telescope ROT-54 and Alphasat SCIEX experiment

4a) ASAPE WGs: Scientific contributions, discussion and planning

- WG5 (Data Calibration without Radiometers): Results from with UPM and UCL collaborations
- WG2 (Data processing)

Coffee Break

4a) ASAPE WGs: Scientific contributions, discussion and planning

- WG3 (Scintillation Analysis): feedback on scintillation questionnaire
- WG1: Data Format
- WG6 (Submission of Experimental Tables to SG3): Report from the last WPs meeting and plan of work
- WG7 (Planning for a Test-Bed of a European Network of Terminals): Report on work on-going in ASALASCA
- WG8: Synergies with other Experiments and other National/International, Projects Ka Band Experiments, LEO/MEO"

5) Planning of ASAPE activities

- Planning for ASAPE activities in 2019 and 2020
- Open discussion

6) GA Conclusions and AoB

Minutes of the meeting

Meeting starts at 14.30 CEST

1) Opening of the meeting

- Welcome
CR opens the meeting
- Introduction of new participants
CR and AM introduces new participants, KvK
- Approval of the agenda
Agenda is approved
- Approval of minutes of last meeting (2nd IM 2019 Telco)
Minutes are reviewed and approved

2) Report on the ASAPE Campaign

Status of the experiment at the end of the fifth year of campaigns

See slides from CR

(file : [01_ASAPE Report_CRiva_GA2018.pdf](#))

3) Presentations of ASAPE Experimenters

- Use of numerical atmospheric simulator in Graz (with UCL)
See slides from FC
(file: [02_NAS Test in Graz_FCuervo_GA 2018.pdf](#))
- Results of the experiment with NASA ground stations
See slides from JN
(file: [03_Results-NASA-Experiment_JNessel_GA2018.pdf](#))
- Results of the experiment in Madrid (fade/interfade duration)
See slides from JMR
(file: [04__Fade&InterfadeDurat-Madrid_JMRiera_GA2018.pdf](#))
- Results of the experiment in Prague
See slides from OF
(file: [05_Prague-ASA_Exp_OFiser_GA-2018.pdf](#))
- Results of the CNES/ONERA campaign & ONERA Time series Synthesiser
See slides from XB
(file: [06_ONERA-CNES-Expe&TSsynthesizers_XBoulanger_GA2018.pdf](#))
- The radio optical telescope ROT-54 and Alphasat SCIEX experiment
See slides from KvK
(file: [07_ROT54-Alphasat_KvKloster_GA2018.pdf](#))

4a) ASAPE WGs: Scientific contributions, discussion and planning

WG5 (Data Calibration without Radiometers): Results from with UPM and UCL collaborations

See slides from POLIMI

(file: [08_WG5_BeaconDataCalibration_LLuini_GA2018.pdf](#))

WG2 (Data processing)

See slides from AM (file: [09_WG2_WSPlanning_AMartellucci_GA2018.pdf](#))

Proposed online WS (WEBCAST) in January 2019 to be followed by live demonstration at ESA TTC WS 2019 and/or Ka Band conference 2019.

AI-GA05-01: AM to organise a teleconference on demonstration of processing tools

Coffee Break

4a) ASAPE WGs: Scientific contributions, discussion and planning

WG3 (Scintillation Analysis): feedback on scintillation questionnaire

See slides and conclusions from MR

(file: [10_WG3_Scintillation_MRytir_GA2018.pdf](#))

WG1: Data Format

New format for L3 data will be defined by SV/AM

AI-GA05-02: AM/SV to specify format for L3 data

WG6 (Submission of Experimental Tables to SG3): Report from the last WPs meeting and plan of work

See slides from AM

(file: [11_WG6_DataSubmITU-R-SG3_AMrtellucci_GA2018.pdf](#))

List of possible ASAPE contributors to DBSG3 in April 2019.

ONERA, JR, NASA, ASALASCA, Prague, Ljubliana, Polimi (Spino/Tito)

WG8: Synergies with other Experiments and other National/International Projects Ka Band Experiments, LEO/MEO"

See slides from LC/XB

(file: [12_WG8_OtherExperim_XBoulangier_GA2018.pdf](#))

and from LL/CR on Meo Ka Band Experiment

(file: [13_WG8_MEKaP_LLuini_GA2018.pdf](#)).

Information on methods developed in MEKaP to measure O3b MEO signal will be discussed in this WG.

5) Planning of ASAPE activities

Planning for ASAPE activities in 2019 and 2020

Next IM 24 January 2019 14.30 – 18.00 (backup date).

EuCAP 2019 Convened session on remote sensing (Conveners M.SC and Merhala Thuray)

Ka BAND 2019 Special ASAPE session

ASAPE WS in 2020 January/February

AM reminds that ITU-R SG3 has proposed to have a SG3 WS either at EuCap or at Ka Band Conference

Open discussion

6) GA Conclusions and AoB

Aldo Paraboni payload is operational and measurements are progressing

ASAPE should provide new inputs to ITU-R Study Group 3 in 2019

New results, techniques and activities have been presented at this meeting

Planning for 2019 has been discussed and will be finalised at ASAPE first IM in 2019 (24/1/2019)

No AoB

The meeting ends at 18:30 (CEST)

List of Open actions at the end of the meeting

- AI-GA04_03: MR/DV/CR Map adoption of scintillation data processing methods within ASAPE
- AI-GA04_05: LL/JMR To define test set-up and data sources for GNSS data calibration.
- AI-GA04_06: AM/CR To submit to SG3 input document on data calibration procedures.
- AI-GA04_07: AM/DV To map use of SW procedures in ASAPE group.
- AI-GA04_09: AM/CR To provide guidelines for converting time series of attenuation into binary signals and the definition for the calculation of χ .
- AI-IM1-18_01: AM/CR to update the TN on the anomaly including observations since 11/17
- AI-IM1-18_02: AM/CR to prepare input document on ASAPE for next 3M meeting
- AI-GA05-01: AM to organise a teleconference on demonstration of processing tools
- AI-GA05-02: AM/SV to specify format for L3 data

List of Documents (available on DAPTIV)

- 1) 01_ASAPE Report_CRiva_GA2018.pdf
- 2) 02_NAS Test in Graz_FCuervo_GA 2018.pdf
- 3) 03_Results-NASA-Experiment_JNessel_GA2018.pdf
- 4) 04__Fade&InterfadeDurat-Madrid_JMRiera_GA2018.pdf
- 5) 05_Prague-ASA_Exp_OFiser_GA-2018.pdf
- 6) 06_ONERA-CNES-Expe&TSsynthesizers_XBoulanger_GA2018.pdf
- 7) 07_ROT54-Alphasat_KvKloster_GA2018.pdf
- 8) 08_WG5_BeaconDataCalibration_LLuini_GA2018.pdf
- 9) 09_WG2_WSPlanning_AMartellucci_GA2018.pdf
- 10) 10_WG3_Scintillation_MRytir_GA2018.pdf
- 11) 11_WG6_DataSubmitU-R-SG3_AMrtellucci_GA2018.pdf
- 12) 12_WG8_OtherExperim_XBoulanger_GA2018.pdf
- 13) 13_WG8_MEKaP_LLuini_GA2018.pdf