Minutes of Workshop Discussions

4th SALGEE Training Workshop
'MSG Land Surface Applications: Drought and Environmental Response'
01 - 03 September 2015, Matera, Italy

Summary of the discussion panels
/01 September 2015; 02 September 2015; 03 September 2015/

Introduction

- The purpose of the EUMETSAT SALGEE Project is summarized for new members:
  - SALGEE, **S**atellite **A**pplications in **L**and surface analyses **G**roup for **E**astern **E**urope is established as an EUMETSAT project after the workshop in Sofia ('MSG LSA SAF Applications: Drought and Fires', 2009)
  - This is an International user Group of scientists in the field of meteorology, satellite meteorology and products developers, and users comunity mainly among the NMSs in the target region (as well as other regions of interest)
  - The aimed is to complement the activities of EUMETSAT LSA SAF Programme for progression of using satellite Land Surface Analyses techniques and data in conjunction with other source of information and training
- Membership of the Group is open, and activities are carried out on a best-efforts basis
- The obligations of the Steering Committee are defined by the ToR
  - Regular annual conections between the Steering Committee members is envisaged.
- Actions: The group has been tasked to work on establishment of intergated meteorological approach for research and operational activates related to the quantification of biogeophysical and biochemical aspects of land surface processes with application of satellite information from meteorological geostaionary MSG satellites.

Suggestions to bridge LSA SAF products and user community

- Luis Pessanha announcements:
  - A long term 10 years dataset of most LSA SAF products will be available for the user community after request (after about 5-6 months).
  - CDOP-3 final version will be prepared for about end of October 2015
  - Distribution of EPS data was stopped because of absence of users
- Erdem Erdy proposal: TMet Software Package for Land SAF products can be free available, after request. Before widespread it is relevant the software to be checked for consistency by the LSA SAF team and L. Pessanha asked for a copy for evaluation.
- Jose Prieto announcement: Case study examples of drought situations can be submitted to be included in the EUMETSAT web page (connected with soil moisture, fire, dust, etc.).
- Julia Stoyanova suggestion: Further SALGEE activities to be organized following this approach and concentrate in elaboration of drought situations studies.

Comments, suggestions, discussions on potential future activities

- Nicola Pergola proposes that we have to combine all this information and try to direct our efforts for its common use in some directions instead for producing additional products.
- Julia Stoyanova underlines that working in this direction (proposed by N. Pergola) requires combined efforts of people and establishment of collaboration teams/projects.
- Luis Pessanha proposes, summaries of the presented contributions to be prepared and shared.
- Valerio Tramutoli underlines that from user point of view it is important to offer integration of knowledge than of parameters. For SALGEE activities a two year period is enough for new results to be obtained and reported, suggesting:
  - It would be useful EUMETSAT to organize for a selected area integration of different parameter so that to serve as a benchmark of methods, and exercises to be organized.
  - To select one topic, e.g. ‘Drought' and to discuses what will be the best to be included. Now different methods to identify drought exist.
- Luis Pessanha stress that different counties has different adopted approaches also different relevant methods applied.
- Jose Prieto suggests to try to integrate the most important and to put a test case.

o After sharing different positions, professional interests and scope of knowledge and qualification, the following was suggested (in principal):

- To select 1-3 different test regions
- To select what data we need
- Selection of other data sources, e.g. ECMWF and others
- Distribute information to all of the Group
- To have some conclusions after 2 years.

o Jose Prieto announces that following intermediate discussions, there is a suggestion two groups to be established for “Drought” and ‘’Fires”.

o Luis Pessanha recommends chairpersons to be selected, who has responsibilities to share information and consolidate efforts, and 2 email lists to be created where the people can select the group to be joint. For ‘’Fire” group as a chairperson he suggests Valerio Tramutoli.

o Valerio Tramutoli shared his experience and visions on important validation procedures concerning satellitete based fire detection algorithms: Underlines the importance of real time fire algorithms validation based on connection with corresponding national authorities. Sensitivity analyses of fire algorithms to be performed by ground truth evaluation. Cases on prescribed fires (can be provided by Martin Wooster and others dealing with this activity) to be considered for validation purposes. Sending response of testing products. Algorithms behavior over different regions is important to be evaluated. Civil protection authorities to be included in the validation. The potential of different algorithms to be evaluated and their regional performances. To test the algorithms over forest cover. Also:

- The most important is publications, to show that data are used.
- Underlines that a brief description of presentaions (1-2-3 sentences) to be shared.
- To establish 2 forums in the web site, where information/sugestions to be shared.

- Fire cases to be selected and shared by people that can contribute: Luis Pessanha / Carlos DaCamara, Erdem Erdy, Wilfrid Schroder, Martin Wooster

- Attempt to allocate attending people in two separate groups on “Drought/Fire”, depending on their interests was made but it was not succesful. It was agreed that both problems are very intertwined and it would be difficult even impossible such kind of grouping.

- Valerio Tramutoli proposes Elena Tarnavski as a chairperson of the “Drought” group. No comments or sugestions for the potential work in this direction were made by E. Tarnavski .

- Further discussions by others were in the direction that indicators for drought is good to be selected.

- Jose Prieto sugests to configure the Moodle page with opening two forums where to share information and sugestions.

- Julia Stoyanova proposes to think for development drought cases for EUMETSAT web page according to specific team experience and underlines that SALGEE is starting a new phase of its activities, initiating to construct collaboration teams for common effors.

Priorities over the next /including 2016/

o Efforts to be made to combine knowledge and expertise to build international teams for strengthening the complex use of MSG based products in combination with other sources of information (*in situ* measurements, NWP/meteorological models, other satellite platforms) for solving specific drought related environmental problems.

o To test the utility of satellite products for different parts of the target SALGEE regions for the purposes (in general) of: Assessment/forecast of complex phenomena like drought; Validation sensitivity/accuracy of thermal anomalies detection algorithms. To developed scientific background and teams for elaboration of case study examples.

o Specific actions planned for 2016 are listed below:

- 3 months after the 4th SALSEE (end of November - beginning of December 2015), a shorts summary of the personal contributions of each participant to be shared on the SALGEE web page.

- 6 months after the 4th SALSEE (the end of March 2016), satellite-based products related to drought environmental response to be defined.

- After about one year (Nov-Dec 2016) discussion on the selected case studies to be organized.

Concluding remarks

❖ No one of participated institutions propose to organize the next SALGEE meeting. Valerio Tramutoli express personal suggestion this to be organized in Darmstadt.

Thanks to Italy host institution were expressed for the good organization.

End of document.

Julia Stoyanova