

**Minutes of WG3 meeting ELECTRONET, Cost Action 15211  
Bucharest, Romania  
13/2/18-14/2/18**

The meeting of the WG3 took place in 13 and 14 feb 2018, at the Platform For Research On Systemic Biology And Ecology, University Of Bucharest, between 9.00 and 17.00.

The meeting started with an introduction from Eugene Rozanov, the leader of the WG3, presenting what are the objectives and deliverables of WG3, in general, as well as the short-term targets, especially those associated to the meeting. Mirela Voiculescu (LOC) gave some information about the venue and administrative issues. The program included presentations of almost each participant, according to the schedule designed by the WG3 leader, with minor modifications. It was agreed by all participants, in a non-formal way, to ask questions and have discussions during the presentation and not to wait the end of presentation. This allowed also to focus on the research timetable and which allowed identifying possible new directions of research as well as some network extension. The planning for the two days bore no change and was kept according to the schedule of presentations (only one participant was missing).

Since and the presentations were extremely attractive there were a lot of discussions with all participants and have taken into account possible new STSMs or common projects/proposals for future scientific calls. Presentations focused on lightning and thunderstorm, solar induced modification of the global electric circuit (GEC) and on lightning or other manifestations of the GEC, ionospheric potential modifications, Mansurov effect, different results and concept of the model. The discussions also had to take into account the fact that research aims in COST have to be in very good harmony with on-going projects (or planned projects), since the aim is mainly creating and enlarging networks. Some new participants were invited to work along WG3 lines.

In the second part of day 2 a draft of the research timetable was drawn, based on what emerged from discussions, on exiting projects and work and on future collaboration.

The following possible topics were identified: ionization from thunderstorms, lightning and thunderstorms, extension of the balloon measurement coverage, reasons for Coronal Mass Ejections (CME) influence on atmospheric electrical currents, response of Carnegie curves to solar variability, Potential Gradient-Ionospheric Potential (IP) connection, IP plot for separate months with better coverage, IP in various models as SOCOL and INM, Mansurov effects in new reanalysis in correlation with other solar proxies, Mansurov effect seen in clouds properties at polar altitudes, difference between current and ionization effects, aerosol to lightning parameterization, lightning according to different models, solar term inclusion in IP calculations. Possibilities of a review paper were discussed but no decision was made.

The meeting ended with a word from the WG3 leader and from the LOC representative.

