



Poster Sessions, Monday June 20, 12:00-15:30

12:00 – 13:00 Poster Session I - Thunderstorm Microphysics and Meteorology 1

Chair: M. Kamogawa

1. G. Nicora - Thunderstorm Days Over Argentina in Climate Change Context Relationship with Thermal Conditions and Aerosol Concentration
2. S. Smirnov - Relation of Winter Thunderstorms in Kamchatka with Seismic and Solar Events
3. T. Plotnik - Transport of Water Vapor from Tropical Cyclones to The Upper Troposphere Its Relationship with Sea Surface Temperature
4. Y. Sato - Overview of Studies with a Bulk Lightning Model Coupled with an Atmospheric Model SCALE

14:00 – 15:30 Poster Session II - Thunderstorm Microphysics and Meteorology 2

Chair: O. Van der Velde

1. K. Pustovalov - Variations of Electric Field Potential Gradient During the Passage of the Mesoscale Convective Complexes On Western Siberia
2. B. Tsenova - Forecasting Thunderstorm Over Bulgaria Using Machine Learning Techniques
3. E. Bruning - An Updated Balloon-Borne Vector Electric Field Meter with Full Inertial Reference Measurement [presented by K. Brunner]
4. H. Kikuchi - High Temporal Resolution Observations of Precipitation Cores with Dual Polarized Phased Array Weather Radar and LF Band Lightning Location System
5. T. Morimoto - LF Receiver Network for Winter Lightning in Hokuriku and Its Recent Observations
6. M. Pazos - Identification of Global Thunderstorm Activity from Schumann Resonance Observations in Mexico
7. J. Silverman - The Dependence of Lightning Generated Underwater Acoustic Noise On Lightning Intensity
8. Y. Yair - Rupture of Pollen Particles During Thunderstorms Due to Atmospheric Electric Fields



Poster Sessions, Tuesday June 21, 12:00-15:30

12:00 – 13:30 Poster Session III - Fair Weather and GEC + Aerosols and Ions

Chair: Y. Reuveni

1. A. Odzimek - Review of Results of Global Circuit Modelling by The EGATEC Model Compared with Observational Data
2. M. Grinberg - Effect of Extremely Low-Frequency Magnetic fields On Light-Induced Electric Reactions in Wheat Plants
3. N. Mshenskaya - Effect of Extremely Low-Frequency Magnetic fields On Biophysical and Biochemical Processes in Pea and Wheat Plants
4. A. Kozlov - Patterns Related to The Madden–Julian Oscillation in The Global Electric Circuit Variation
5. M. Kamogawa - Successive Observation of Atmospheric Electric Field at Kakioka Geomagnetic Observatory
6. S. Safaranov - Identifying Global and Local Effects in Fair-Weather Electric Field Variations in Urban and Rural Areas
7. G. Nicora - Atmospheric Electric Field During the Solar Eclipse On 14 December 2020
8. A. Buzás - Comparison of Different Atmospheric Electric Fair-Weather Criteria Based On Potential Gradient Data
9. G. Harrison - Long Term Measurements of the Global Atmospheric Electric Circuit [presented by Blair McGuinness and Caleb Miller]
10. M. Kamogawa - A Newly Designed Observation and Analysis of Atmospheric Electric Field for A Global Electric Circuit Study at The Polar Region
11. T. Bozóki - Predicting the Occurrence of Extreme El Nino Events Based On Schumann Resonance Measurements?
12. T. Bozóki - Towards Machine Learning-Based Classification of ELF-Transients
13. S. Smirnov - Capabilities of Earthquake Forecast Based On Negative Anomalies of Atmospheric Electric Field
14. J. Tabett – Micro-Scintillator Ionization Detector Performance Aboard a North Atlantic Voyage
15. J. A. Tacza Anaya - Effects of Short-Term Solar Disturbances On the Potential Gradient Measurements Recorded in Two Different Stations
16. B. McGinnes - Ion Environment Effects on Point Discharge Measurements
17. P. Fontanes - Study of The Transitory Response of a UAV Equipped With an Active Electrostatic Charge Control System Based on Corona Discharge [presented by J. Montanya]



Poster Sessions, Tuesday June 21 continued

14:30 – 15:30 Poster Session IV- Lightning Discharge Physics 1

Chair: M. Asfur

1. G. Sola - A New Concept of Lightning Hotspot
2. A. Malagón-Romero - Streamer Propagation in Dry and Humid Air
3. A. Odzimek - Identification in Time and Spectral Domain of Reflective Processes Observed During IC Discharges Recorded in 2019 By The Lightning Detection Station in Rzeszow
4. J. Montanya - Simulation of Lightning Using Vertical Wires Deployed by Drones: The Effect of Seawater and Land On the Charging Currents
5. T. Silva - High-Speed Camera Observations of Intracloud Flashes in Brazil
6. M. Arcanjo - On the Features of Corona Discharges from Grounded Rods [presented by J. Montanya]
7. I. Toucedo Cruz - First Positive Subsequent Return Stroke Records Observed in Negative Upward Lightning [presented by M. Saba]
8. I. Toucedo Cruz - Secondary Recoil Leader Connections with Precedent Recoil Leader Observed in Negative Upward Lightning [presented by M. Saba]
9. P. Lauria - Study of Upward Leaders Initiated by Lightning Rods in Response to Downward Negative Leaders
10. D. Baissac – Electrical Activity of Explosive Volcanic Eruptions at Low Latitudes
11. J. Bór - Global Distribution of Vertical Charge Moment Change of Intense Lightning Strokes as Inferred from Q-Bursts Recorded at Nagycenk, Hungary



Poster Session, Wednesday June 22, 12:00-14:00

12:00 – 14:00 Poster Session V – Lightning Discharge Physics 2

Chair: M. Rubinstein

1. I. Toucedo Cruz - Type "V" Recoil Leaders Observed in Upward and Intracloud Lightning [presented by M. Saba]
2. J. A. Roncancio-Guzman - Optical Emissions During Initiation Process of Negative Stepped Leaders and Positive Cloud to Ground Lightning
3. N. Bogatov - An Experimental Study of the Breakthrough-Phase and Return-Stroke Processes in Long Sparks
4. D. Iudin - Lightning Polarity Asymmetry
5. A. Kostinski - Interpreting New Observations of Initiating Events (IEs), NBEs (CIDs) And Initial Breakdown Pulses (IBPs) Using The KMS Lightning Initiation Mechanism
6. S. Diniz - The Possible Role of Electric Fields Strengths Below Relativistic Runaway Electron Avalanche Threshold in Gamma-Ray Glow Emissions
7. H. Mkrtchyan - Radar Observation of Debris Clouds Making Energetic TGEs with Strong Negative Charge Overhead
8. A. Chilingarian - Charge Distribution in the Thundercloud, Electron Acceleration, and Lightning Initiation
9. A. Chilingarian - On the Strength of Atmospheric Electric Fields during Thunderstorm Ground Enhancements (TGEs)
10. E. Svechnikova – Modelling of Daytime Sprites
11. Y. Shlyugaev - On Applicability of Measurement Results of High-Energy Radiation from Long Spark Discharge to Natural Lightning Discharge.
12. D. Zemlianskaya - Influence of Hydrometeors on Relativistic Runaway Electron Avalanches
13. C. López - Optical Features of Positive Cloud-To-Ground Lightning Associated with TLE Events and Long Continuing Current from Space
14. T. Suzuki - Various Transient Luminous Events Observed from The Summit of Mt. Fuji in Japan



Poster Session, Thursday June 23 ,12:00-13:00

12:00 – 13:00 Poster Session VI - - Space Missions, Planetary Lightning and Lightning Detection and Protection

Chair: Y. Yair

1. E. Defer - Planning A LMA-Based Field Campaign in Africa in Support of MTG-LI Validation
2. D. Reid - Measurements of Electric and Magnetic Fields of Martian Regolith Simulant [presented by]
3. J. Ringhausen - Regional and Seasonal Variations in Random Forests Model Performance for GLM Flash Type Classification
4. Y. Hobara - Global Statistical Distributions of Lightning Energy from International Space Station
5. D. Shahar - Lightning Monitoring as A Tool to Improve Flash-Floods Warnings: Event of Nahal Tzafit, Israel, As A Case Study
6. C. I. Villagrán Asiares - Analysis of The Atmospheric Electrical Activity Over Wind Farm in Argentina, In A Context of Climate Change.
7. D. Bestard - Acoustical Characterization of Lightning Flash: Three-Dimensional Distribution of Thunder Radiation
8. Xue Bai - Long-Range Lightning Interferometry Using Complex Coherency
9. B. McGuinness - Ion environment effects on point discharge measurements