

Online Workshop on Lightning and Related Phenomena

By students from lightning research groups in *Gifu University*
Kindai University

And invited speakers from *Hokkaido University*
University of California Santa Cruz
University of Florida

Schedule (JST)

Session One: 9:30~11:30, May 19, 2026

Session Two: 14:00~16:00, May 20, 2026

Join the workshop with the following link:

[Zoom link](#)

Session One (May 19)

Chair: Ting Wu (Gifu University)

9:30~9:45

Detecting Positive Leaders of Winter Lightning Using Interferometers: Effects of Signal Amplification and Window Length

Yuki Hamajima (M2, Gifu University)

9:45~10:00

Observation on the Relationship Between Winter Positive Lightning 3D Progressions and Hydrometeor Distributions

Honoka Aiba (M2, Gifu University)

10:00~10:15

Terrestrial Gamma-Ray Flash Associated With a Positive Cloud-to-Ground Lightning Flash

James Sanchez (D3, University of California Santa Cruz)

10:15~10:30

Charge Structure and Polarimetric Radar Echo of Winter Lightning Flashes with Negative Energetic Compact Strokes

Shunsuke Tsuge (M2, Gifu University)

10:30~10:45

A study on thundercloud charge structures through the integration of observations and numerical simulations

Yuki Yoshida (M2, Hokkaido University)

10:45~11:00

A Case Study on the 3D Progression of In-Cloud Discharges Associated with Continuing Current

Ryuki Hirai (M2, Gifu University)

11:00~11:15

Lightning leader/streamer dynamics and unexpected channel fragmentation imaged in UV range

Siyuan Pan (D1, University of Florida)

11:15~11:30

Estimation of the Electric Charges Neutralized by Winter Lightning Flashes with Negative Energetic Compact Strokes

Kazuma Yoshinaga (M2, Gifu University)

Session Two (May 20)

Chair: Yuji Takayanagi (Kindai University)

14:00~14:15

Comparison of 3-D characteristics of winter and summer lightning discharges in Hokuriku area

Ayase Nakao (M1, Gifu University)

14:15~14:30

Characteristics of Continuing Currents in Multiple Termination Cloud-to-Ground Strokes Observed by FALMA and VHF Interferometer System

Muhammad Uwais Farihin Fauzi (D2, Kindai University)

14:30~14:45

Automatic Identification of Energetic Compact Strokes Using Image Recognition with Machine Learning

Kenta Kojima (M2, Gifu University)

14:45~15:00

Ground-based and Satellite Observation of Electromagnetic Emissions from Lightning

Andrea Kolinska (Postdoc, Hokkaido University)

15:00~15:15

Winter Lightning Prediction using Machine Learning with XRAIN Polarimetric Parameters

Tomoki Yamada (M1, Gifu University)

15:15~15:30

Three-Dimensional Characteristics of Energetic Compact Strokes observed by DALMA

Takumi Nakamura (M1, Gifu University)

15:30~16:00

Lightning Activation Nowcasting using Storm-Tracked Feature Variables via LSTM Networks

Mohd Anif Akhmal bin Abu Bakar (D3, Kindai University)

Notes to all speakers

* For a 15-min talk, please leave about 5 min for questions and discussions

* Please test your microphone and camera beforehand, and turn on the camera during your talk for other people to know you