

- **Lightning development associated with two negative gigantic jets**
- **Observations of lightning flash development associated with gigantic jets**
- **Modeling of thundercloud screening charges: Implications for blue and gigantic jets**

- **Duration and extent of large electric fields in a thunderstorm anvil cloud after the last lightning**
- **Electrical evolution during the decay stage of New Mexico thunderstorms**
- **Lightning initiation in the anvils of two supercell storms**
- **Upward electrical discharges from thunderstorms**
- **TELEX The Thunderstorm Electrification and Lightning Experiment**
- **Evolving Complex Electrical Structures of the STEPS 25 June 2000 Multicell Storm**
- **Three-dimensional fractal modeling of intracloud lightning discharge in a New Mexico thunderstorm and comparison with lightning mapping observations**
- **Electrical and Polarimetric Radar Observations of a Multicell Storm in TELEX**
- **Electrical Activity During the 2006 Mount St. Augustine Volcanic Eruptions**
- **Three-dimensional fractal modeling of intracloud lightning discharge in a New Mexico thunderstorm and comparison with lightning mapping observations**
- **MEETINGS: Are AMS Conference Practices Changing for Better or Worse?: A Report on Developments from the 32nd Radar Meteorology and 11th Mesoscale Processes Joint Conference**
- **The Electrical Structure of Two Supercell Storms during STEPS Inverted-polarity electrical structures in thunderstorms in the Severe Thunderstorm Electrification and Precipitation Study (STEPS)**
- **Lightning-Initiation Locations as a Remote Sensing Tool of Large Thunderstorm Electric Field Vectors**
- **Initial leader velocities during intracloud lightning: Possible evidence for a runaway breakdown effect**
- **Observed electric fields associated with lightning initiation**
- **Initial leader velocities during intracloud lightning: Possible evidence for a runaway breakdown effect**
- **Marx Brook, 1920–2002**

- **The Quota**
- **The Severe Thunderstorm Electrification and Precipitation Study (**
- **Accuracy of the Lightning Mapping Array**
- **Spatial and temporal characteristics of VHF radiation source produced by lightning in supercell thunderstorms**
- **Effects of charge and electrostatic potential on lightning propagation**
- **Polarity inverted intracloud discharges and electric charge structure of thunderstorm**
- **Observations of VHF source powers radiated by lightning**
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- **The Use of Simultaneous Horizontal and Vertical Transmissions for Dual-Polarization Radar Meteorological Observations**
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- **Detection of daytime sprites via a unique sprite ELF signature**
- **Comparison of ground-based 3-dimensional lightning mapping observations with satellite-based LIS observations in Oklahoma**
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- **High speed video of initial sprite development**
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- **A study of enhanced fair-weather electric fields occurring soon after sunrise**
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- **Correlated high-speed video and radio interferometric observations of a cloud-to-ground lightning flash**
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- **Remote sensing of tropospheric clouds with a dual polarization radar**
- **Observations of lightning phenomena using radio interferometry**

- **The Use Of Broadband And Dual-polarization Techniques For Studying A Time-varying Clutter Target (lightning)**
- **Location And Analysis Of Lightning Vhf Radio Sources Using Interferometry**
- **Interferometric observations of a single stroke cloud-to-ground flash**
- **Determination of Cloud Liquid Water Distribution by Inversion of Radiometric Data**
- **Mesoscale Observations of Lightning from Space Shuttle**
- **The initial streamer of intracloud lightning flashes**
- **Determination of Cloud Liquid Water Distribution by Inversion of Radiometric Data**
- **Comments on 'Ion-Drop Interaction during Drop Evaporation'**

[B. Vonnegut](#), [A. J. Illingworth](#), P. R. Krehbiel

- **Mesoscale observations of lightning from Space Shuttle**

[B. Vonnegut](#), [O. H. Vaughan Jr.](#), [M. Brook](#), P. Krehbiel

Motion pictures have been taken at night by astronauts on the space shuttle showing lightning discharge that spread horizontally at speeds of 100,000/msec for distances over 60 km. Tape recordings have been made of the accompanying optical pulses detected with a photocell optical system. The observations show that lightning is often a mesoscale phenomena that can convey large ...

Published in 1984.

- **Lightning**

[Martin A. Uman](#), [J. Hughes](#), [J. Latham](#), [Y. T. Lin](#), P. R. Krehbiel, [M. Brook](#), [J. L. Bohannon](#), [H. A. Poehler](#), [W. Jefferies](#), [J. R. Nicholson](#)

The previous review of U.S. lightning research for the IUGG covered the period 1971–1975 and was published by Uman et al. (1975). Although the present review is intended to cover the research of the last four years, 1979–1982, we will survey the total seven year period, 1976–1982, since the previous review. References to 82 articles were ...

- **The electrical structure of the Hokuriku winter thunderstorms**
- **Simultaneous observations of lightning radiations from above and below clouds**

[Marx Brook](#), [Richard Tennis](#), [Charley Rhodes](#), Paul Krehbiel, [Bernard Vonnegut](#), [Otha H. Vaughan](#)

- **An Analysis of the Charge Structure of Lightning Discharges to Ground**
- **Doppler Radar and Radio Observations of Thunderstorms**
- **A Broad-Band Noise Technique for Fast-Scanning Radar Observations of Clouds and Clutter Targets**
- **Measurements of radiation from lightning at 2200 MHz**
- **An analysis of the charge structure of lightning discharges to ground**
- **Correction [to “Measurement of radiation from lightning at 2200 MHz”]**
- **Measurements of radiation from lightning at 2200 MHz**
- **Erratum: Measurement of radiation from lightning at 2200 MHz**
- **The anomalous winter thunderstorms of the hokuriku coast**
- **An Unusual Lightning Flash at Kennedy Space Center**
- **Microwave Radiometric Detection of Corona From Chaff Within Thunderstorms**
- **A fast scanning meteorological radar**
- **On the Power Spectrum and Mechanism of Thunder**
- **Electrical Screening Layers around Charged Clouds**
- **Three-Dimensional Total Lightning Observations with the Lightning Mapping Array**
- **3Dimensional Lightning Observations Using a Time-of-Arrival Lightning Mapping System**

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