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[The Relationship Between Cloud-to-Ground Lightning and Precipitations Ice Mass: A Radar study over Houston](#) Jun 2006 20 pages

Authors: [Michael L. Gauthier](#); [Walter A. Petersen](#); [Lawrence D. Carey, Jr.](#); [Christian Hugh J.](#); [ALABAMA UNIV IN HUNTSVILLE](#)

... developed, extending global studies of IM and **lightning** to more regional and cell scales around Houston, ... Results indicate that local maximums in cloud-to-ground (CG) **lightning** were indeed accompanied by peaks in IM. Extending ... generate enhanced concentrations of mixed-phase IM, and its ability to generate **lightning**. Relative to the documented CG **lightning** " ... and precipitation ice, thereby generating an anomaly in **lightning**; causal hypotheses must be capable of explaining either ... frequency and/or intensity of convection, and then relating these to the enhancement of IM and **lightning production**.

Full Text

[The Initiation of Lightning and the Growth of Electric Fields in Thunderstorms](#) Dec 1993 60 pages

Authors: [John Latham](#); [UNIVERSITY OF MANCHESTER INST OF SCIENCE AND TECHNOLOGY \(UNITED KINGDOM\) DEP T OF PHYSICS](#)

Further research into the glaciation of convective clouds of the type that produce **lightning** has revealed that the early stages of ice formation can be detected by ... implications. Further laboratory experiments have shown that the most effective methods of **lightning** initiation are likely to involve supercooled raindrops, with threshold fields around 300kV/m. A new model of thundercloud electrification and **lightning production** has been developed, from which it is possible to deduce the sensitivity of **lightning** frequency to meteorological and cloud microphysical parameters. **Lightning**, Ice, Corona ...

Full Text

[Urban Influences on Convection and Lightning Over Houston](#) 2006 185 pages

Authors: [Michael L. Gauthier](#); [ALABAMA UNIV IN HUNTSVILLE SCHOOL OF GRADUATE STUDIES AND RESEARCH](#)

... , ultimately anthropogenic, influences on convection as it relates to **lightning production** and precipitation structure. In general, inadvertent weather modification hypotheses offered to explain **lightning** and rainfall anomalies rely on either or ... of convection (from whence warm-season rainfall and **lightning** emanate), or modification to convective cloud microphysics through ... enhancements in summer season cloud-to-ground (CG) **lightning** over the Houston area were examined in ... mechanisms responsible for the intensity of the Houston CG **lightning** anomaly to be those associated with a mixture of urban ...

Full Text

[Advanced Scout Helicopter \(ASH\) Fly-by-Wire Flight Control System Preliminary Design. Volume I. System Design and Analysis.](#) Mar 1981 152 pages

Authors: [Bruce L. McManus](#); [Kenneth H. Landis](#); [BOEING VERTOL CO PHILADELPHIA PA](#)

... dual mechanical flight control system in the following areas: handling qualities, reliability, maintainability, availability, durability, survivability, EMP/EMI/**lightning** tolerance, cost, and weight. The candidate vehicle for the study was the Medium Utility Transport (MUT) as defined in document ... most respects. The fly-by-optics has a further advantage over the fly-by-wire in EMP/EMI/lighting tolerance, maintainability, and availability. **Production** acquisition and operation/maintenance costs are similar for all candidates. Further development of fiber optic transducers and interfacing hardware ...

Full Text

[Air Force Posture Statement 2008: Department of Air Force Presentation to the House Armed Services Committee, U.S. House of Representatives, Fiscal Year 2009 Air Force Posture Statement](#) Feb 27, 2008 40 pages

Authors: [Michael W. Wynne](#); [Michael Moseley](#); [SECRETARY OF THE AIR FORCE WASHINGTON DC](#)

... new Tanker (KC-X); the new Combat Search and Rescue Helicopter (CSAR-X); modern space systems to provide capabilities vital to our Joint warfighters; the F-35A **Lightning** II; and a new Bomber we intend to field by 2018. We will continue our efforts to modernize and protect America's vital air, space, and cyberspace capabilities. We strongly recommend extending the existing C-130J **production** line. We are also concerned with preserving America's aerospace industrial base. Additionally, we seek relief from restrictions on the retirement of aging, worn-out ...

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