

**BIBLIOGRAPHY ON SAFETY AND DEMOGRAPHICS  
OF LIGHTNING CASUALTIES**

This bibliography includes papers published mainly in English about lightning safety for people and occasionally animals, the demographics of people who have become victims of lightning, and methods specifically to warn people of the lightning risk. The list includes papers over 100 years old, and from around the world.

Some references are less accessible than others. Conference abstracts, oral presentations, and posters are not included.

The listing organizes papers by author. Within an author's list of publications, papers are ordered by year, then by number and names of co-authors, then by titles of papers.

Ron Holle  
Holle Meteorology & Photography  
11374 N. Cactus Rose Drive  
Oro Valley, AZ 85737  
rholle@earthlink.net  
(520) 229-1685

01 November 2022

- 
- ab Kadir, M.Z.A., M.A. Cooper, and C. Gomes, 2010: An overview of the global statistics of lightning fatalities. Preprints, 30th International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 4 pp.
- , N.R. Misbah, C. Gomes, J. Jasni, W.F. Wan Ahmad, and M.K. Hassan, 2012: Recent statistics on lightning fatalities in Malaysia. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- , 2016: Lightning severity in Malaysia and some parameters of interest for engineering applications. *Thermal Science*, **20**, 437–450.
- Adekoya, N., and K.B. Nolte, 2005: Struck-by-lightning deaths in the United States. *Journal of Environmental Health*, **67**, 45-50.
- Adel, J.J., 2016: Inference and implications from a lightning observation. *American Research Journal of Physics*, **2**, 16 pp.
- Adhikari, B.J., 2021: Lightning fatalities and injuries in Nepal. *Weather, Climate, and Society*, **13**, 449-458.
- Agoris, D., E. Pyrgioto, D. Vasileiou, and S. Dragoumis, 2002: Analysis of lightning death statistics in Greece. Proceedings, 26<sup>th</sup> International Conference on Lightning Protection, September 2-6, Cracow, Poland, 654-657.
- Aguado, M., B. Hermoso, A. Yarnoz, and L. Sarries, 2000: An evaluation of lightning's effects and economic costs in Navarra (Spain) from 1950 to 1999. Proceedings, 25<sup>th</sup> International Conference on Lightning Protection, September 18-22, Rhodes, Greece, 798-801.
- , B. Hermoso, R. Goiffon, and L. Durris, 2002: Accidents due to lightning: State of art. Proceedings, 26<sup>th</sup> International Conference on Lightning Protection, September 2-6, Cracow, Poland, 658-661.
- Ahmad, N.A., N.N. Abu Bakar, and Z. Adzis, 2014: Study of lightning fatalities in Malaysia from 2004 to 2012. *Jurnal Teknologi*, **66**, 10-13.
- Ahrens, M., 2013: Lightning fires and lightning strikes. National Fire Protection Association, Fire Analysis and Research Division, June, Quincy, Massachusetts, 38 pp.
- Aini, M.S., M.A.Z. ab Kadir, B. Gomez, and A.G. Keul, 2014: The influence of social demographic factors on severe weather concern, knowledge, and preparedness among Malaysians. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 4 pp.
- Akello, R.J., 2004: Lightning research in Eastern Africa. Preprints, International Lightning Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 20 pp.
- , and M.O. Ogada, 2006: Lightning activities in east Africa. Preprints, International Lightning Detection Conference, April 24-25, Tucson, Arizona, Vaisala, 9 pp.
- Allsopp, J., R.J. Vavrek, and R.L. Holle, 2001: Is your school ready for a weather disaster? Planning for severe weather. *The Earth Scientist*, National Earth Science Teachers Association, **18**, 3-9.

- American Meteorological Society, 2003: Lightning safety awareness [AMS Statement and background from AMS Council]. *Bulletin of the American Meteorological Society*, **84**, 260-261.
- Anderson, R.B., 2001: Does a fifth mechanism exist to explain lightning injuries? *IEEE Engineering in Medicine and Biology*, January/February, 105-113.
- , I.R. Jandrell, and H.E. Nematswerani, 2002: The upward streamer mechanism versus step potential as a cause of injuries from close lightning discharges. *The Transactions of the South Africa Institute of Electrical Engineers*, March, 33-43.
- Andrews, C.J., and M. Darveniza, 1989: Telephone mediated lightning injury: An Australian survey. *Journal of Trauma*, **29**, 665.
- , G. Berger, N. Floret, T. Ishikawa, N. Kitagawa, and M. Ohashi, 1996: International safety and rescue guide against lightning hazards. Proceedings, 23rd International Conference on Lightning Protection, September 23-27, Florence, Italy, 738-743.
- , —, —, —, —, and —, 1997: International safety and rescue guide against lightning hazards. Proceedings, Lightning and Mountains '97, June 1-5, Chamonix Mont-Blanc, France, 211.
- , 2003: Crowd protection strategies: Experience from Sydney Olympic Games, 2000. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-47 KMS, 8 pp.
- , 2007: A case of telephone related lightning strike. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07/PPR KM12, 7 pp.
- , M.A. Cooper, and R. Holle, 2009: Lightning physics and injuries. Chapter 35, *Electrical Injuries: Medical and Bioengineering Aspects, Second Edition*, Lawyers & Judges Publishing Company, Inc., Tucson, Arizona, R.M. Fish and L.A. Geddes, Editors, 373-403.
- , 2014: A review of the psychological consequences of lightning and electrical injury. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 9 pp.
- , A.D. Reisner, and M.A. Cooper, 2017: Post electrical or lightning injury syndrome: a proposal for an American Psychiatric Association's Diagnostic and Statistical Manual formulation with implications for treatment. *Neural Regeneration Research*, **12**, 1405-1412.
- , 2021: A study of earth potential rise shock in lightning injury. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 9 pp.
- Antonescu, B., and F. Carburaru, 2018: Lightning-related fatalities in Romania from 1999 to 2015. *Weather, Climate, and Society*, **10**, 241-2
- Artigas, S.E.S., and Y.U. Mendoza, 2014: Data analysis of lightning fatalities occurrence by non-homogeneous Poisson process with application on public health: The case of Venezuela. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 6 pp.
- Ashley, W. and C. Gilson, 2009: A reassessment of U.S. lightning mortality. *Bulletin of the American Meteorological Society*, **90**, 1501-1518.
- Aslar, A.K., A. Soran, Y. Yildiz, and Y. Isik, 2001: Epidemiology, morbidity, mortality and treatment of lightning injuries in a Turkish burns unit. *International Journal of Clinical Practice*, **55**, 502-504.
- Attarian, A., 2010: A review of lightning safety education for outdoor adventure programs. *Wilderness and Environmental Medicine*, **21**, 176-177.
- Badoux, A., N. Andres, F. Techel, and C. Hegg, 2016: Natural hazard fatalities in Switzerland from 1946 to 2015. *Natural Hazards and Earth System Sciences*, **16**, 2747-2768.
- Bains, N., and J. Hoey, 1998: Before lightning strikes. *Canadian Medical Association Journal*, **159**, 163.
- Baker, T., 1984: Lightning deaths in Great Britain and Ireland. *Weather*, **40**, 232-234.
- Bandara, D.R.A., 2004: Lightning hazards: Impacts and responses of the public. Preprints, International Lightning Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 8 pp.
- Barannyk, I., V. Shostak, and S. Tsybann, 2010: Lightning accidents at the bus stop shelters. Preprints, 30th International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 8 pp.
- Bareetseng, S., and C. Gomes, 2022: A qualitative research approach to study the healing powers of plant species against lightning used by South African indigenous communities of KwaZulu Natal Province, South Africa.

- Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 879-883.
- Barreto, J.A., J.S. Fernandez, D.E. Villamil, H.E. Rojas, and F. Santamaria, 2021: Analysis of the certified lightning fatalities and their relation with rainfall in Colombia for the period 2008-2018. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 5 pp.
- Beasley, W.H., M.M. Lengyel, L.G. Byerley, E.R. Mansell, R. Jabrzemski, J.W. Conway, and M.D. Eilts, 2005: On the need for electric-field meters to support critical lightning hazard-warning decision processes. Preprints, Conference on Meteorological Applications of Lightning Data, January 9-13, San Diego, California, American Meteorological Society, 5 pp.
- Becerra, M., and V. Cooray, 2008: On the physics of the interaction of aborted lightning upward connecting leaders with humans. International Conference on Grounding and Earthing and 3rd International Conference on Lightning Physics and Effects, 16-20 November, Florianopolis, Brazil, 6 pp.
- , and —, 2009: On the interaction of lightning upward connecting positive leaders with humans. *IEEE Transactions on Electromagnetic Compatibility*, **51**, 4, 1001-1008.
- Bechacq, Y., 2012: The lightning information as part of the risk prevention market. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 3 pp.
- Bell, T.E., 2005: If you think your odds of winning the lottery are about the same as getting Struck by Lightning...think again. *The Bent of Tau Beta Pi*, Winter, 15-22.
- Bennett, B.L., 1997: A model lightning safety policy for athletics. *Journal of Athletic Training*, **32**, 251-253.
- , R.L. Holle, and R.E. López, 1997: Lightning safety. *1997-98 NCAA Sports Medicine Handbook*, Ninth Edition, M. Benson, Editor, National Collegiate Athletic Association, Overland Park, KS, 12-14.
- , R.L. Holle, and R.E. López, 1998: Lightning safety. *1998-99 NCAA Sports Medicine Handbook*, Ninth Edition, M. Earle, Editor, National Collegiate Athletic Association, Overland Park, KS, 12-14.
- , 2000: Lightning safety. *The First Aider*, **70**, 1-4.
- , R.L. Holle, and M.A. Cooper, 2006: Lightning safety. *2007-07 NCAA Sports Medicine Handbook*, 18th Edition, D. Clossner, Editor, National Collegiate Athletic Association, Indianapolis, Indiana, 12-14.
- Berger, G., 2003: Three centuries of research on lightning damages to human beings. Proceedings, 7<sup>th</sup> International Symposium on Lightning Protection (VII SIPDA), November 17-21, Curitiba, Brazil, 465-481.
- , 2007: Lightning-caused accidents and injuries to humans. Preprints, 9<sup>th</sup> International Symposium on Lightning Protection, 26-30 November, Foz do Iguacu, Brazil, 19 pp.
- Bernat, V., 2000: A hair-raising experience. *Backpacker*, August, 33-36.
- Bhardwaj, P., Singh, O. and Kumar, D., 2017. Spatial and temporal variations in thunderstorm casualties over India. *Singapore Journal of Tropical Geography*, **38**, 293-312.
- Biswas, A., K. Dalal, J. Hossain, K.U. Baset, F. Rahman, and S.R. Mashreky, 2017: Lightning injury is a disaster in Bangladesh: - Exploring its magnitude and public health needs. *F1000Research*, **5**.
- Biswas, R.N., M.N. Islam, M.J. Mia, and M.N. Islam, 2020: Modeling on the spatial vulnerability of lightning disaster in Bangladesh using GIS and IDW techniques. *Spatial Information Research*, 15 pp.
- Blumenthal, R., 2003: Lightning fatalities on the South African Highveld: A retrospective descriptive study for the period 1997-2000. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-35 KMS, 8 pp.
- , 2005: Lightning fatalities on the South African Highveld: A retrospective descriptive study for the period 1997-2000. *The American Journal of Forensic Medicine and Pathology*, **26**, 66-59.
- , 2007: A retrospective descriptive study on the pathology of trauma of lightning fatality cases in Gauteng 2001-2004. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07/PPRKM10, 5 pp.
- , I.R. Jandrell, and Nicholas J. West, 2011: Does a sixth mechanism exist to explain lightning injuries? Investigating a possible new injury mechanism to determine the cause of injuries related to close lightning flashes. *American Journal of Forensic Medical Pathology*. doi: 10.1097/PAF.

- , 2012: The forensic investigation of fatal lightning strike victims: Reconsidered and revised. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- , 2012: Secondary missile injury from lightning strike. *American Journal of Forensic Medical Pathology*, **33**, 83-85.
- , I.R. Jandrell, and N.J. West, 2012: Does a sixth mechanism exist to explain lightning injuries?: Investigating a possible new injury mechanism to determine the cause of injuries related to close lightning flashes. *American Journal of Forensic Medicine and Pathology*, **33**, 222-226.
- , E. Trengove, I.R. Jandrell, and G. Saayman, 2012: Lightning medicine in South Africa. *South African Medical Journal*, **102**(7), 625-626.
- , 2015: The distant sound of thunder. *The Complete Fly Fisherman (South Africa)*, February, 22-23.
- , and N.J. West, 2015: Investigating the risk of lightning's pressure blast wave. *South African Journal of Science*, **111**(3/4), Article number 2014-0187, 5 pp.
- , 2016: The explosive effects of lightning: What are the risks? *Academic Forensic Pathology*, **6**, 89-95.
- Bonnet, M., 2004: Use of lightning data services in the industry. Proceedings, 18th International Conference on Lightning Protection, Avignon, France, 907-911.
- Borden, K.A., and S.L. Cutter, 2008: Spatial patterns of natural hazards mortality in the United States. *International Journal of Health Geographics*, **7**:64, 13 pp. doi: 10.1186/1476-072X-7-64.
- Bosson, R., and P. Waldner, 1997: Lightning and refuges. Proceedings, Lightning and Mountains '97, June 1-5, Chamonix Mont-Blanc, France, 313-314.
- Bott, T.F., and S.W. Eisenhower, 2005: Development of optimal lightning warning procedures using probabilistic risk analysis. Preprints, Conference on Meteorological Applications of Lightning Data, January 9-13, San Diego, California, American Meteorological Society, 11 pp.
- Bouqueneau, C., and V. Rakov, 2010: How dangerous is lightning? Dover Press, 135 pp.
- Branom, M., 2017: On the Job: Mary Ann Cooper, Keraunomedicine expert. *Weatherwise*, **70**, 32-34.
- Brazdil, R., K. Chroma, J. Rehor, P. Zahradnicek, L. Dolak, L. Reznickova, and P. Dobrovolny, 2019: Potential of documentary evidence to study fatalities of hydrological and meteorological events in the Czech Republic. *Water*, **11**, 25 pp., doi:10.3390/w11102014.
- , —, L. Dolak, J. Rehor, L. Reznickova, P. Zahradnicek, and P. Dobrovolny, 2021: Fatalities associated with the severe weather conditions in the Czech Republic, 2000-2019. *Natural Hazards and Earth System Sciences*, **21**, 1355-1382.
- Brody, F., 2000: Lightning--it can strike you in a flash. *Safety & Total Health Newsletter*, Johnson Space Center Safety & Total Health Planning Committee, **5**, 1-2.
- Brown, S.K., S.F. Jenkins, R.S.J. Sparks, H. Odbert, and M.R. Auken, 2017: Volcanic fatalities database: analysis of volcanic threat with distance and victim classification. *Journal of Applied Volcanology*, **6**:15, 20 pp.
- Buba, S.D., C. Gomes, and M.Z.A. ab Kadir, 2012: Lightning accidents in Nigeria; With special attention to aviation mishaps. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.
- Bureau of Business Practice, 2000: Lightning Strikes – Helping people stay safe. *Maintenance Management*, Number 2606, 8-9.
- Cardoso, I., O. Pinto Jr., I.R.C.A. Pinto, and R. Holle, 2011: A new approach to estimate the annual number of global lightning fatalities. 14th International Conference on Atmospheric Electricity, August 8-12, Rio de Janeiro, Brazil, 4 pp.
- , —, —, and —, 2011: Lightning casualty demographics in Brazil and its implications to safety rules. 14th International Conference on Atmospheric Electricity, August 8-12, Rio de Janeiro, Brazil, 4 pp.
- , —, —, and —, 2014: Lightning casualty demographics in Brazil and their implications for safety rules. *Atmospheric Research*, **135-136**, 374-379.
- Carte, E., R.B. Anderson, and M.A. Cooper, 2002: A large group of children struck by lightning. Preprints, International Lightning Detection Conference, October 16-18, Tucson, Arizona, Vaisala, Tucson, 8 pp.
- , —, and —, 2002: A large group of children struck by lightning. *Academic Emergency Medicine*, **39**(6):665-670.
- Cawley, J.C., and G.T. Homce, 2003: Occupational electrical injuries in the United States, 1992-1998, and recommendations for

- safety research. *Journal of Safety Research*, **34**, 241-248.
- Cervený, R., P. Bessemoulin, C.C. Burt, M.A. Cooper, Z. Cunjic, A. Dewan, J. Finch, R.L. Holle, A. Kruger, T.-C. Lee, R. Martinez, M. Mohaptra, D.R. Pattanaik, T.C. Peterson, S. Sheridan, B. Trewin, A. Tait, and M.M.A. Wahab, 2017: WMO assessment of weather and climate mortality extremes: Lightning, Tropical cyclones, tornadoes, and hail. *Weather, Climate, and Society*, **9**, 487-497.
- Changnon, S.A., 2001: *Thunderstorms across the nation: An atlas of storms, hail, and their damages in the 20th century*. Printec Press, Champaign, Illinois, ISBN 0-963181-4-9, 93 pp.
- Chao, T.C., J.E. Pakiam, and J. Chia, 1981: A study of lightning deaths in Singapore. *Singapore Medical Journal*, **22**, 150.
- Chen, R., 2009: Equipotential coupling technology application to bathroom. Preprint Proceedings, China International Forum on Lightning Protection and Disaster Mitigation, September 8-10, Chongqing, China, 204-205.
- Cherington, M., E.P. Krider, P.R. Yarnell, and D.W. Breed, 1997: A bolt from the blue: Lightning strike to the head. *American Academy of Neurology*, **48**, 683-686.
- , D.W. Breed, P.R. Yarnell, and W.E. Smith, 1998: Lightning injuries during snowy conditions. *British Journal of Sports Medicine*, **32**, 333-335 [‘Commentary’ by H.J. Ten Duis also on page 335].
- , J. Walker, M. Boyson, R. Glancy, H. Hedegaard, and S. Clark, 1999: Closing the gap on the actual numbers of lightning casualties and deaths. Preprints, 11th Conference on Applied Climatology, January 10-15, Dallas, TX, American Meteorological Society, 379-380.
- , 2001: Hazards of bicycling: From handlebars to lightning. *Seminars in Neurology*, **20**, 247-2535.
- , 2001: Lightning injuries in sports: Situations to avoid. *Sports Medicine*, **31**, 301-308.
- , R. Kurtzman, E.P. Krider, and P.R. Yarnell, 2001: Mountain medical mystery: Unwitnessed death of a healthy young man, caused by lightning. *The American Journal of Forensic Medicine and Pathology*, **22**, 296-298.
- Chiswell, S.R., and E.D. Kabela, 2011: Automated lightning notification and communication at Savannah River Site. Preprints, 5th Conference on the Meteorological Applications of Lightning Data, January 23-27, Seattle, Washington, American Meteorological Society, 1 pp.
- Chitauró, J.J., 1990: Welcoming speech. Discussion Section. Proceedings, The First All-Africa International Symposium on Lightning, April 30-May 4, Harare, Zimbabwe, 4 pp.
- Cristancho C., J.A., J.E. Rodríguez M., F. Roman, and A.M. Rojas G., 2022: Personal protection against lightning using electroconductive fabrics. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 907-911.
- Clements, N.C., and R.E. Orville, 2008: The warning time for cloud-to-ground lightning in isolated, ordinary thunderstorms over Houston, Texas. Preprints, 3rd Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 15 pp.
- Clulow, A.D., S. Strydom, B. Grant, M.J. Savage, and C.S. Everson, 2018: Integration of a ground-based lightning warning system into a mining operation in the Democratic Republic of the Congo. *Weather, Climate, and Society*, **10**, 899-912.
- Coates, L., R. Blong, and F. Siciliano, 1993: Lightning fatalities in Australia, 1824-1991. *Natural Hazards*, **8**, 217-233.
- Cooper, M.A., R. Holle, and R. López, 1999: Recommendations for lightning safety. *Journal of the American Medical Association*, **282**, 1132-1133.
- , 2000: A fifth mechanism of lightning injury. Preprints, International Lightning Detection Conference, November 7-8, Tucson, Arizona, 2 pp.
- , C. Andrews, R.L. Holle, and R.E. López, 2001: Lightning injuries. Chapter 3, *Wilderness Medicine*, 4th Edition. Mosby, St. Louis, MO, P. Auerbach, Editor, 73-110.
- , 2001: Disability, not death, is the main problem with lightning injury. *National Weather Digest*, **25**, 43-47.
- , 2002: A fifth mechanism of lightning injury. *Society for Academic Emergency Medicine*, **9**, 172-174.
- , S. Marshburn, Sr., and J. Marshburn, 2002: Lightning Strike and Electric Shock Survivors, International. *National Weather Digest*, **25**, 48-50.
- , and R.L. Holle, 2004: How to mobilize the information systems in your country to change lightning safety standards (and save lives and injuries). Preprints, International Lightning

- Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 6 pp.
- , and —, 2005: How to use public education to change lightning safety standards (and save lives and injuries). Preprints, 14<sup>th</sup> Symposium on Education, January 9-13, San Diego, California, American Meteorological Society, 5 pp.
  - , and S. Marshburn, 2005: Lightning Strike and Electric Shock Survivors. *International NeuroRehabilitation*, 20, 43-37.
  - , and R.L. Holle, 2007: Casualties from lightning involving motorcycles. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper Ic07/PPRKM02, Paris, France, 6 pp.
  - , C.J. Andrews, and R.L. Holle, 2007: Lightning injuries. Chapter 3, *Wilderness Medicine*, 5<sup>th</sup> Edition, Mosby Elsevier, Philadelphia, Pennsylvania, P. Auerbach, Editor, 67-108.
  - , 2008: How lightning kills and injures. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 3 pp.
  - , 2008: How lightning kills and injures (and why we don't know more about it). Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 4 pp.
  - , R.L. Holle, and C. Andrews, 2008: Distributions of lightning injury mechanisms. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 4 pp.
  - , and —, 2010: Mechanisms of lightning injury should affect lightning safety messages. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 5 pp.
  - , and M. Zainal Abidin ab Kadir, 2010: Lightning injury continues to be a public health threat internationally. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 8 pp.
  - , R.L. Holle, and C.J. Andrews, 2010: Distribution of lightning injury mechanisms. Preprints, 30<sup>th</sup> International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 4 pp.
  - , and —, 2011: Mechanisms of lightning injury should affect lightning safety messages. *Newsletter*, National Weather Association, June, 2-3.
  - , 2012: A brief history of lightning safety efforts in the United States. Preprints, 4<sup>th</sup> International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 5 pp.
  - , 2012: Whether the medical aspects of lightning injury are different in developing countries. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.
  - , and R.L. Holle, 2012: Lightning safety campaigns - USA experience. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 7 pp.
  - , —, C.J. Andrews, and R. Blumenthal, 2012: Lightning injuries. Chapter 3, *Wilderness Medicine*, 6<sup>th</sup> Edition, Elsevier Mosby, Philadelphia, Pennsylvania, P. Auerbach, Editor, 60-101.
  - , R. Blumenthal, L.M. Silva, and N. Pliskin, 2014: A follow-up study of a large group of children struck by lightning. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 4 pp.
  - , —, —, and —, 2015: A follow-up study of a large group of children struck by lightning. Preprints, 7<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, January 4-8, American Meteorological Society, Phoenix, Arizona, 4 pp.
  - , C. Gomes, R. Tushemereirwe, N.J. Blaise, E. Ataremwa, and F.C. Lubasi, 2016: The development of the African Centres for Lightning and Electromagnetics network. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
  - , C.J. Andrews, R.L. Holle, R. Blumenthal, and N. Navarrete Aldana, 2017: Lightning-related injuries and safety. Chapter 5, *Wilderness Medicine*, 7<sup>th</sup> Edition. Elsevier, Philadelphia, Pennsylvania, P. Auerbach, Editor, 71-117.
  - , and R.L. Holle, 2018: *Reducing lightning injuries worldwide*. Springer Natural Hazards, New York, 233 pp.
  - , R. Tushemereirwe, and R.L. Holle, 2018: African Centres for Lightning and Electromagnetics Network (ACLENet): Progress report. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, March 12-15, Fort Lauderdale, Florida, 5 pp.
  - , R.L. Holle, R. Tushemereirwe, and C. J. Andrews, 2018: African Centres for Lightning and Electromagnetics Network (ACLENet): Progress Report. Preprints, 34<sup>th</sup> International Conference on Lightning Protection, September 2-7, Rzeszow, Poland, 7 pp.

- , —, —, and D.E. Villamil, 2019: African Centres for Lightning and Electromagnetics Network (ACLENet): Application to South America? Preprints, International Symposium on Lightning Protection (XV SIPDA), September 30-October 4, Sao Paulo, Brazil, 6 pp.
- , and R. Tushemereirwe, 2020: The formation of ACLENet: NAM S&T Centre's involvement in preventing lightning injuries and deaths. Chapter from *In pursuit of science, Technology & Innovation: Three decades of NAM S&T Centre*, M. Bandyopadhyay, and K. Mehra, Editors, 52-57.
- , —, and R.L. Holle, 2021: African Centres for Lightning Electromagnetics Network (ACLENet) – Progress report. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 7 pp.
- , B. Akantambira, R. Tushemereirwe, M.O. Okodi, R.L. Holle, and I. Tumuhimbise, 2022: Challenges to lightning safety advocacy programs: ACLENet's experience and advice. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 809-814.
- Cooray, C., V. Cooray, and C.J. Andrews, 2004: lightning caused injuries in humans. Proceedings, 18<sup>th</sup> International Conference on Lightning Protection, Avignon, France, 857-862.
- Cooray V., G.K. Cooray, and C. Cooray, 2015: On the possible mechanism of keraunographic markings on lightning victims. *Journal of Atmospheric and Solar-Terrestrial Physics*, **136**, 119-123.
- Cox, C.C., 1999: A comparison of horizontal cloud-to-ground lightning flash distance using weather surveillance radar and the distance between successive flashes method. Mater of Science Thesis, AFITT/GM/ENP/99M-03, Dept. of Engineering Physics, Air Force Institute of Technology, 130 pp.
- Cristancho, J.A., H. Suárez, Y. Urbano, and F. Román, 2017: Fatal livestock lightning accident in Colombia. Preprints, International Symposium on Lightning Protection (XIV SIPDA), 2-6 October, Natal, Brazil, 4 pp.
- Cruz, C., C. Rentería, and F.J. Roman, 2015: Statistics of the Colombian National Army lightning accidents. Preprints, International Symposium on Lightning Protection (XII SIPDA), Belo Horizonte, Brazil.
- Cruz-Bernal, A.S., H. Torres, H. Aranguren-Fino, and J. Inampues, 2018: Lightning mortality rate in Colombia for the period 1997-2014. *Revista UIS Ingenierías*, **17**, 65-74.
- Curran, E.B., R.L. Holle, and R.E. López, 1995: Lightning casualty and damage climatology for the United States 1959-1990. Preprints, 9<sup>th</sup> Conference on Applied Climatology, 15-20 January, Dallas, TX, American Meteorological Society, 289-294.
- , —, and —, 1997: Lightning fatalities, injuries, and damage reports in the United States from 1959-1994. NOAA Tech. Memo. NWS SR-193, 64 pp.
- , —, and —, 2000: Lightning casualties and damages in the United States from 1959 to 1994. *Journal of Climate*, **13**, 3448-3464.
- Cutlip, K., 2011: On the Job: Ron Holle, Lightning injury expert. *Weatherwise*, **64**, 56-57.
- Dace, M., C. Howard, G. McGarity, A. Melendez, C. Patrick, M. Walser, and M. Uman, 2003: In a flash. *Athletic Management*, August/September issue, 59-64.
- Dahlslett, F., A. Pley, O. Rokseth, and K. Solberg, 2002: Analysis of the collected data (1996-2001) from the Norwegian lightning location system. Proceedings, 26<sup>th</sup> International Conference on Lightning Protection, September 2-6, Cracow, Poland, 105-110.
- Darveniza, M., D. Mackerras, R. Watson, and S. Wright, 1998: Portable personal lightning protection. Proceedings, 24<sup>th</sup> International Conference on Lightning Protection, September 14-18, Birmingham, United Kingdom, Staffordshire University, 820-825.
- , 2003: Lightning protection of exposed vehicles. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-60 GDV, 9 pp.
- Das, S.M., G.M. Kumar, and S. Sampath, 2009: Investigations into mechanisms of involvement of objects and personnel in lightning disasters. *Journal of Lightning Research*, **1**, 36-51.
- Day, P., R. Pomponi, and R. Tommasini, 2008: Injury to person touching electrical and electronic equipment inside a structure due to lightning. Preprints, 29<sup>th</sup> International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 12 pp.
- de Agostinho Antonio, M., and C.A. de Agostinho Antonio, 2002: Thunderstorm and lightning alert via WAP. Proceedings, GROUND'2002 (International Conference on Grounding) and Earthing & 3<sup>rd</sup> WAE (3<sup>rd</sup> Brazilian Workshop on Atmospheric Electricity), November 4-7, Rio de Janeiro, Brazil, 163-166.

- Debenham, C., 1993: Lightning and electrical injury. *Journal of the Royal Society of Medicine*, **86**, 2.
- de Fonvielle, W., 1869: *Thunder and lightning*. Charles Scribner & Co., New York, 285 pp.
- Demetriades, N.W.S., M.J. Murphy, R.L. Holle, and P. Richard, 2004: The importance of total lightning in the future of weather nowcasting. Preprints, International Lightning Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 10 pp.
- de Souza, D.F., H.E. Sueta, H. Tatizawa, W.A. Martins Júnior, and E. Martinho, 2022: An analysis of lightning deaths in Brazil 2010-2020. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 969-973.
- Dewan, A., M.F. Hossain, M.M. Rahman, Y. Yamane, and R.L. Holle, 2017: Recent lightning-related fatalities and injuries in Bangladesh. *Weather, Climate, and Society*, **9**, 575-589.
- Dias, G.A.D., L.C.F. da Silva, H.L. Blauth, and V. Dienstmann, 2003; Lightning protection of outdoor events. Proceedings, 7<sup>th</sup> International Symposium on Lightning Protection (VII SIPDA), November 17-21, Curitiba, Brazil, 177-180.
- , —, M. Tello, V. Dienstmann, and H.M. Wickert, 2005: Lightning detection systems through electric field measurements. Proceedings, 8<sup>th</sup> International Symposium on Lightning Protection (VIII SIPDA), November 21-25, Sao Paulo, Brazil, 441-444.
- Dickson, A.S., J.D. Grant, and I.R. Jandrell, 2006: The meaning of risk of economic loss, R4, for low income groups in South Africa based on the approach of IEC62305-2. Preprints, International Conference on Grounding and Earthing & 2<sup>nd</sup> International Conference on Lightning Physics and Effects, 26-29 November, Maceio, Brazil, 151-155.
- , —, and —, 2012: Lightning risk analysis: Case study of endangered animals. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.
- Deierling, W., M. Steiner, K. Ikeda, C. Kessinger and R.G. Bass, 2014: Short term lightning hazard predictions. Preprints, XV International Conference on Atmospheric Electricity, June 15-20, Norman, Oklahoma, 10 pp.
- Dickson, A.S., 2014: Assessing the dangers of lightning to livestock: A case study of a lightning event resulting in the deaths of 22 cattle. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 6 pp.
- Dixon, P.G., D.M. Brommer, B.C. Hedquist, A.J. Kalkstein, G.B. Goodrich, J.C. Walter, C.C. Dickerson IV, S.J. Penny, and R.S. Cerveny, 2005: Heat mortality versus cold mortality: A study of conflicting databases in the United States. *Bulletin of the American Meteorological Society*, **86**, 937-943.
- Dlamini, W.M., 2008: Lightning fatalities in Swaziland. *Natural Hazards*. doi: 10.1007/s11069-008-9331-6.
- Doljinsuren, M., and C. Gomes, 2015: Lightning incidents in Mongolia. *Geomatics, Natural Hazards and Risk*, doi: 10.1080/19475705.2015.1020888.
- , and —, 2016: Lightning related human casualties in Mongolia. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 4 pp.
- Dombai, F., 2009: Comparative analysis of flash and radar characteristics of thunderstorm cells. Chapter 21, *Lightning: Principles, instruments, and applications; Review of modern lightning research*. Springer, H.D. Betz, U. Schumann, and P. Laroche, Editors, 465-486.
- Donet, I., 2004: Lightning risk and characteristics at Europe's spaceport. Preprints, International Lightning Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 7 pp.
- Duclos, P.J., and L.M. Sanderson, 1990: An epidemiological description of lightning-related deaths in the United States. *International Journal of Epidemiology*, **19**, 673-679.
- , —, and K.C. Klontz, 1990: Lightning-related mortality and morbidity in Florida. *Public Health Reports*, **105**, 276-282.
- Dyson, N., 2006: Striking risk. *Australia's Mining Monthly*, August, 116.
- Edirisinghe, M., and U.G.D. Maduranga, 2021: Distribution of lightning accidents in Sri Lanka from 1974 to 2019 using the DesInventar database. *International Journal of Geo-Information*, **10**, 22 pp.
- Edwards, R., and L.R. Lemon, 2002: Proactive or reactive: The severe storm threat to large event venues. Preprints, 21<sup>st</sup> Conference on Severe Local Storms, San Antonio, TX, American Meteorological Society, 232-235.
- Eisenhawer, S.W., and T.F. Bott, 2002: Analysis of lightning-related risk in outdoor high explosive research. Preprints, International Lightning Detection Conference, October 16-18, Tucson, Arizona, Vaisala, Tucson, 7 pp.



- Elistina, A.B., M.S. Aini, M.Z.A. ab Kadir, C. Gomes, and A.G. Keul, 2014: The position of the media as a tool of communication and education on severe weather in Malaysia. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 4 pp.
- Elsom, D.M., 1993: Deaths caused by lightning in England and Wales, 1852-1990. *Weather*, **48**, 83-90.
- , 1994. Injuries and deaths caused by lightning in the United Kingdom: a new national database. *Journal of Meteorology*, **19(193)**, 322-327.
- , 1996. Surviving being struck by lightning: a preliminary assessment of the risk of lightning injuries and death in the British Isles. *Journal of Meteorology*, **21(209)**, 197-206.
- , 2001: Deaths and injuries caused by lightning in the United Kingdom: analyses of two databases. *Atmospheric Research*, **56**, 325-334.
- , and J.D.C. Webb, 2014: Deaths and injuries caused by lightning in the UK, 1988-2012. *Weather*, **69**, 8, 221-226.
- , 2015: Lightning: Nature and culture. Reaktion Books, London, U.K., 240 pp.
- , 2015: Striking reduction in the annual number of lightning fatalities in the United Kingdom since the 1850s. *Weather*, **70**, 9, 251-257.
- , and J.D.C. Webb, 2015: Lightning impacts in the United Kingdom and Ireland. In Doe, R.K. (ed.) *Extreme Weather: Forty Years of the Tornado and Storm Research Organisation (TORRO)*, Chichester: John Wiley & Sons, chapter 10, 195-207.
- , and —, 2015: Lightning injuries and fatalities in the United Kingdom 2014 and a summary of personal-injury lightning incidents from 1988 to 2014. *International Journal of Meteorology*, **40 (391)**, 84-91.
- , and —, 2015: tragedy at the Royal Ascot Racecourse, Berkshire, 14 July 1955. *International Journal of Meteorology*, **40 (390)**, 48-56.
- , —, S.E. Enno, and A. Horseman, 2016. Lightning fatalities and injuries in the UK in 2015 and lightning safety advice for hill and mountain walkers. *International Journal of Meteorology*, **41 (397)**, 105-126.
- , and —, 2017: Lightning deaths in the UK: a 30-year analysis of the factors contributing to people being struck and killed. *International Journal of Meteorology*, **42 (401)**, 8-26.
- , 2018: Factors contributing to a long-term decrease in national lightning fatality rates: case study of the United Kingdom with wider implications. *International Journal of Disaster Risk Reduction*, **31**, 341-353.
- Esprit, S., P. Kothari, and R. Khillon, 2006: Injury from lightning strike while using mobile phone. *British Medical Journal*, **332**, 1513, 24 June.
- Everts, B., 2010: Lightning fires and lightning strikes. National Fire Protection Association, Fire Analysis and Research Division, December, Quincy, Massachusetts, 31 pp.
- Fan, X., Y. Zhang, Q. Yin, Y Zhang, and D. Zheng, 2019: Characteristics of a multi-stroke “bolt from the blue” lightning-type that caused a fatal disaster. *Geomatics, Natural Hazards and Risk*, **10**, 1425-1442.
- Fang, L., and Q. Binquan, 2012: Analysis and exploration of vulnerability regionalization and grey relevancy between factors of lightning disaster in recent year in Chongqing. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- Fantus, R.J., and J. Fildes, 2006: Zeus on the 18th hole. *Bulletin of the American College of Surgeons*, **91**, 34-35.
- Ferrett, R.L. and C.F. Ojala, 1992: The lightning hazard in Michigan. *Michigan Academician*, **24**, 427-441.
- Fioux, J.L, R.J Sharp, C.H. Paxton, and J.A. States, 2005: Florida lightning deaths and injuries 1998-2003 and mitigation strategies using lightning data. Preprints, Conference on Meteorological Applications of Lightning Data, January 9-13, San Diego, California, American Meteorological Society, 4 pp.
- Flammarion, C., 1904: Les caprices de la foudre. E. Flammarion, Editor, Paris.
- Fleagle, R. G., 1949: The audibility of thunder. *Journal Acoustical Society America*, **21**, 4, 411-412.
- Flisowski, Z., and F. Rachidi, 2004: Session 8a, 8p: Moderator’s report: Lightning deleterious effects. Proceedings, 18th International Conference on Lightning Protection, Avignon, France, 848-850.
- Fricska, G., and L. Vitols, 2012: The Canadian lightning risk display. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 4 pp.
- Foster, J.D.R., and R.L. Norris, 2000: Managing lightning injuries: Beyond emergency treatment. *The Bulletin*, Minnesota State High School League, **70**, 16-23.
- Fuelberg, H.E., R.J. Walsh, and A.D. Preston, 2014: The extension of lightning flashes from

- thunderstorms near Cape Canaveral, Florida. *Journal of Geophysical Research - Atmospheres*, **119**, 9965–9979.
- Fujiba, F., 2017: Long-term change in lightning mortality and its relation to annual thunder days in Japan. *Journal of Natural Disaster Science*, **38**, 17-29.
- Gadge, S.J., and M.B. Shrigiriwar, 2012: Lightning: A 15 year study of fatal cases at SVNGMC Yavatmal. *Journal of Forensic Medicine, Science and Law*, **22(1)**, 6 pp.
- Gao, Y. Zhang, W. Zhang, and Y. Zhang, 2012: Characteristics of lightning casualties and vulnerability evaluation regionalization in China. *Journal of Applied Meteorological Science*, **23(3)**, 294 – 303.
- , —, —, and —, 2014: Characteristics of lightning casualties and vulnerability evaluation regionalization in China. Preprints, 5<sup>th</sup> International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 4 pp.
- Gazzana, D.S., A.S. Bretas, G.A.D. Dias, M. Tello, D.W. Thomas, and C. Christopoulos, 2012: Contribution to the study of human safety against lightning considering the grounding system influence and the variations of the associated parameters. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- , —, —, T. Marcos, D.W.P. Thomas, and C. Christopoulos, 2014: A study of human safety against lightning considering the grounding system and the evaluation of the associated parameters. *Electric Power Systems Research*, **113**, 88-94.
- Goldenhuis, H.J., A.J. Eriksson et al., 1985: Research into lightning related incidents in shallow South African coal mines. Proceedings, 21st International Conference on Safety in Mines Research, Sidney, Australia, 775-782.
- George, N., S. Bandi, L. Ganti, and B. Desai, 2020: Bounced off a truck out of the blue: A case report of a lightning Strike during a thunderstorm. *Cureus*, **12(11)**, doi: 10.7759/cureus.11534.
- Gijben, M., 2012: Lightning climatology of South Africa with a special focus on lightning risk maps. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 4 pp.
- Ghosh, N.C., 2016: Highest death but not covered by laws. *Science India*, **19**, 6 pp.
- Golde, R.H., 1945: Frequency of lightning occurrence to earth. *Quarterly Journal of the Royal Meteorological Society*, **71**, 89-109.
- , 1975: *Lightning protection*. Chemical Publishing Co., Inc., New York, 220 pp.
- , and W.R. Lee, 1976: Death by lightning. *Proceedings of the Institute of Electrical Engineers*, **123**, 1163-1180.
- Gomes, A., and C. Gomes, 2014: Hierarchy of hazard control to minimize lightning risk. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 10 pp.
- Gomes, C., R. Kithil, and M. Ahmed, 2006: Developing a lightning awareness program model for third world based on American-South Asian experience. Preprints, 28<sup>th</sup> International Conference on Lightning Protection, September 18-22, Kanazawa, Japan, 1240-1243.
- , M.A.F. Hussain, and K.R. Abeyasinghe, 2006: Lightning accidents and awareness in South Asia: Experience in Sri Lanka and Bangladesh. Preprints, 28<sup>th</sup> International Conference on Lightning Protection, September 18-22, Kanazawa, Japan, 1240-1243.
- , and M.Z.A. ab Kadir, 2010: Challenges in the promotion of lightning protection know-how in developing world. Preprints, 30<sup>th</sup> International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 13 pp.
- , and M.Z.A. ab Kadir, 2011: Lightning protection: Getting it wrong. *IEEE Technology and Society Magazine*, **30**, 13-21.
- , and M.Z.A. ab Kadir, 2011: A theoretical approach to estimate the annual lightning hazards on human beings. *Atmospheric Research*, **101**, 719-725.
- , and A.G. Diego, 2011: Lightning protection scenarios of communication tower sites; human hazards and equipment damage. *Safety Science*, **49**, 1355–1364.
- , 2012: Lightning safety of animals. *International Journal of Biometeorology*, **56**, 1011–1023.
- , —, and M.A. Cooper, 2012: Lightning safety scheme for sheltering structures in low-income societies and problematic environments. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 11 pp.
- , M. Ahmed, and D. Zele, 2012: Lightning related fish mortality: Case study from Bangladesh. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.

- , and —, 2014: Lightning; Gods and sciences. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 10 pp.
- , A. Gomes, and M. Ahmed, 2015: Safety issues in regions with high lightning occurrence density. *COMSATS – Science Vision*, **21**, 1&2, 16 pp.
- , and C. Gomes, 2016: Lightning safety psyche. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 8 pp.
- , —, Zainal ab Kadir, M. Izadi, and M. Rock, 2016: Lightning related human casualties in Mongolia. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- , —, F.C. Lubasi, and M. Doljinsuren, 2016: Concerns of the application of lightning protection risk assesment for small structures. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- , 2017: Lightning related human risks and risk management. *American Journal of Management Science and Engineering*, **2**, 65-79.
- , 2019: Lightning safety structures for applications in the industrial sector and underprivileged communities in Africa. *wattnow*, HVAC School of Electrical and Information Engineering, University of the Witwatersrand, Johannesburg, South Africa, August, 18-26.
- , and M. Izadi, 2019: Lightning caused multiple deaths: Lethality of taking shelter in unprotected buildings. Preprints, International Symposium on Lightning Protection (XV SIPDA), September 30-October 4, Sao Paulo, Brazil, 7 pp.
- , 2020: Lightning protection of structures: How to do it wrong. *WATTNOW*, August, 50-57.
- , and Z.M. Khurshid, 2021: Do metal objects such as mobile phones increase lightning risk? *Geomatics, Natural Hazards and Risk*. **12**, 1819–1836.
- , 2022: Defining lightning-safe structures for all socio-economic communities. *South Africa Journal of Science*, **118**, 18 pp.
- , and Z.M. Khurshid, 2022: Lightning safety with a grounded air-terminal: Is there a difference between indoor and outdoor? Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 1100-1103.
- Gonçalves, L.G.A., W.L.N. Matos, A.F.R. Leal, and E.R. Ferreira, 2021: Public beliefs and lightning safety education in Amazon region. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 6 pp.
- Gookin, J., 2002: NOLS backcountry lightning safety guidelines. Preprints, International Lightning Detection Conference, October 16-18, Tucson, Arizona, Vaisala, Tucson, 8 pp.
- , 2003: Lightning Safety for Cavers. *American Caving Accidents*, National Speleological Society, June, 8-10.
- , 2010: Backcountry lightning risk management. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 9 pp.
- , 2014: Understanding voltage: Ground current lab exercise for lightning education. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 8 pp.
- , with S. Morris, 2014: *Lightning*. National Outdoor Leadership School, Stackpole Books, Mechanicsburg, Penn., 130 pp.
- Gourbière, E., J. Lambrozo, C. Virenque, P. Menthonnex, and J. Cabane, 1997: "Lightning injured people in France" the first French national inquiry with regard to the striking of people - objectives, methods, first results. Proceedings, Conference on Lightning and Mountains '97, Chamonix Mont-Blanc, France, M71-M83.
- , 1998: Lightning injury to human beings in France. Proceedings, 24th International Conference on Lightning Protection, September 14-18, Birmingham, United Kingdom, Staffordshire University, 814-819.
- , 1999: Lightning injuries to humans in France. Proceedings, 11th International Conference on Atmospheric Electricity, June 7-11, Guntersville, AL, NASA/CPP-1999-209261, 214-217.
- , and E. Lapeyre, 2002: Lightning accidents on camping sites in France. Proceedings, 26<sup>th</sup> International Conference on Lightning Protection, September 2-6, Cracow, Poland, 662-663.
- Graham-Jones, B.C., 2006: The fractal nature of lightning: An investigation of the fractal relationship of the structure of lightning to terrain. M.S. Thesis, Dept. of Mathematics, Florida State University, 122 pp.
- Grant, M.D., K.J. Nixon, I.R. Jandrell, I.S. McKechnie, and K.J. Yates, 2008: Alternatives to masts for the protection of thatched roof

- structures against the effects of direct lightning strikes. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 9 pp.
- , A.S.W. Tordiffe, and R. Blumenthal, 2012: Case study of lightning-caused death of critically endangered *Tragelaphus. Sp.* Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- Gratz, J., R. Church, and E. Noble, 2005: Lightning safety and outdoor stadiums. Preprints, Conference on Meteorological Applications of Lightning Data, January 9-13, San Diego, California, American Meteorological Society, 9 pp.
- , —, and —, 2005: Safeguarding the spectator. *Weatherwise*, **58**, 42-45.
- , and E. Noble, 2006: Lightning safety and large stadiums. *Bulletin of the American Meteorological Society*, **87**, 1187-1194.
- Groszek, K., 2004: A Survey of Lightning Safety Policy in Selected High Schools. Thesis, Master of Science, Western Michigan University, Kalamazoo, Michigan, 28 pp.
- Gulyás, A., and I. Kiss, 2008: High-reliability preventive lightning protection. Preprints, International Lightning Meteorology Conference, April 24-25, Tucson, Arizona, Vaisala, 9 pp.
- , B. Nemeth, I. Kiss, and I. Berta, 2008: Theoretical framework of preventive lightning protection. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 12 pp.
- , A., N. Szedenik, I. Kiss, and I. Berta, 2016: Standardized risk and the use of lightning hazard forecasting. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 6 pp.
- Guthrie, M., and J. Morgan, 2016: Implementing a lightning protection solution for multi-structure orphanage in Haiti. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 7 pp.
- , S. Striani, I. Tumuhimbise, R.L. Holle, K. Roets, T. Nsamba, M.A. Cooper, M.O. Okodi, A. Candela Garolera, S. Sweeney, and R. Tushemereirwe, 2022: Techniques used by ACLENet in protection of schools in rural Uganda: ACLENet's Lightning Protection Working Group. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 815-820.
- Hajikhani, M., M.Z.A. ab Kadir, M. Izadi, and C. Gomes, 2016: A comparison of lightning human fatalities between Malaysia and United States. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- , —, —, —, and M.A. Cooper, 2016: Lightning fatalities and injuries in Malaysia from 2008 to 2015. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- Hartono, Z.A., and I. Robiah, 2007: Improvised lightning protection system for indigenous homes and makeshift huts. Invited Lecture, 4<sup>th</sup> Asia Lightning Protection Forum (ALPF), Guangzhou, China, February 2007.
- , and —, 2011: Improvised lightning safety awareness program. 7th Asia-Pacific international Conference on Lightning, November 1-4, Chengdu, China, 874-877.
- , and —, 2014: Lightning protection for the Holy Mosque and the Jamarat bridge in Makkah. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 5 pp.
- Heidler, F., G. Diendorfer, and W. Zischank, 2004: Examples of severe destruction of trees caused by lightning. Preprints, 27<sup>th</sup> International Conference on Lightning Protection, September 13-16, Avignon, France.
- , —, and —, 2005: Examples of trees severely destructed by lightning. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper GND-22, 6 pp.
- Heitkemper, L., R.F. Price, and D.B. Johnson, 2008: Lightning-warning systems for use by airports. ACRP (Airport Cooperative Research Program) Report 8, Transportation Research Board, National Academies, Los Washington, DC, 81 pp.
- Henry, A.J., 1900: Loss of life in 1899 by lightning. *Monthly Weather Review*, **28**, 100-101.
- Henson, B., 2006: Storms and stadiums: Meteorologists help universities deal with severe weather on campus. *UCAR Quarterly*, Winter 2005-06.
- Hlalele, B.K., 2016: From fulminology to human safety: A case of N8 Road South Africa. *International Journal of Emergency Mental*
- Hoogstra, J.R., 2012: Emergency Management Standards for NCAA Division I-A Football Stadia. Dissertation, College of Social and Behavioral Sciences, Walden University, Minneapolis, Minnesota, 198 pp.

- Hodanish, S., and B. Zajac, 2002: Documentation of the "First lightning flash of the day" associated with a weak shallow convective updraft killing an 18 year old on top of Pikes Peak, Colorado. Preprints, International Lightning Detection Conference, October 16-18, Tucson, Arizona, Vaisala, Tucson, 7 pp.
- , R.L. Holle, and D.T. Lindsey, 2004: A small updraft producing a fatal lightning flash. *Weather and Forecasting*, **19**, 627-632.
- , 2005: Meteorological case studies of lightning strike victims in Colorado. Preprints, Conference on Meteorological Applications of Lightning Data, January 9-13, San Diego, California, American Meteorological Society, 13 pp.
- , K. Torgerson, J. Jensenius, M.A. Cooper, M. Utley, and W.P. Roeder, 2008: Leon the lightning safety lion says: "When thunder roars – go indoors:" – NOAA's efforts regarding children's lightning safety. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 4 pp.
- , 2005: Meteorological case studies of lightning strike victims in Colorado. Preprints, Conference on Meteorological Applications of Lightning Data, January 9-13, San Diego, California, American Meteorological Society, 13 pp.
- , 2012: Meteorological case studies of lightning strike victims in Colorado. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 22 pp.
- , S., P. Wolyn, and K. Mozley, 2015: Meteorological analysis of the Rocky Mountain National Park lightning fatalities of 11 and 12 July, 2014. Preprints, 7<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, January 4-8, Phoenix, Arizona, American Meteorological Society, 10 pp.
- Holle, R.L., R.E. López, R. Ortiz, A.I. Watson, D.L. Smith, D.M. Decker, and C.H. Paxton, 1992: Cloud-to-ground lightning related to deaths, injuries, and property damage in central Florida. Proceedings, International Aerospace and Ground Conference on Lightning and Static Electricity, Atlantic City, NJ, 66-1 to 66-11.
- , —, C.H. Paxton, D.M. Decker, and D.L. Smith, 1993: The local meteorological environment of lightning casualties in central Florida. Preprints, 17th Conference on Severe Local Storms and Conference on Atmospheric Electricity, St. Louis, MO, American Meteorological Society, 779-784.
- , —, L.J. Arnold, and J. Endres, 1995: Insured property damage due to lightning in three western US states. Proceedings, 1995 International Aerospace and Ground Conference on Lightning and Static Electricity, September 26-28, Williamsburg, VA, U.S. Navy Report NAWCADPAX--95-306-PRO, 55-1-55-10.
- , —, —, and —, 1995: Insured property damage from lightning in Colorado, Utah, and Wyoming. NOAA Technical Memorandum ERL NSSL-104, Norman, OK, 47 pp.
- , —, K.W. Howard, R.J. Vavrek, and J. Allsopp, 1995: Lightning hazard education. Preprints, 4th Symposium on Education, 15-20 January, Dallas, TX, American Meteorological Society, 96-99.
- , —, —, —, and —, 1995: Lightning hazard education. *The Earth Scientist*, National Earth Science Teachers Association, **12**, 19-23.
- , —, —, —, and —, 1995: Lightning hazard education. *The Hoosier Science Teacher*, **20**, 112-118.
- , —, —, —, and —, 1995: Lightning hazard education. *Spectrum*, Illinois Science Teachers Association, **21**, 9-12.
- , —, —, —, and —, 1995: Proactive measures for the reduction of lightning deaths and injuries. Transactions, 16th Annual Meeting of the Society for Physical Regulation in Biology and Medicine, October 10-12, Chicago, IL, 82-83.
- , —, L.J. Arnold, and J. Endres, 1996: Insured lightning-caused property damage in three western states. *Journal of Applied Meteorology*, **35**, 1344-1351.
- , —, R.J. Vavrek, and J. Allsopp, 1997: Newspaper accounts of lightning from 1891 to 1895. *The Earth Scientist*, National Earth Science Teachers Association, **14**, 20-22.
- , —, L.J. Arnold, J. Endres, and E.P. Krider, 1997: Insured property damage due to lightning in the United States. Proceedings, Lightning and Mountains '97, June 1-5, Chamonix Mont-Blanc, France, 223-228.
- , —, —, —, and —, 1997: Insured property damage due to lightning in the United States. National Weather Service Western Region Technical Attachment No. 97-20, June 17, 14 pp.
- , and —, 1998: Lightning - Impacts and safety. *Bulletin of the World Meteorological Organization*, **47**, 148-155.

- , and —, 1998: Minimizing the lightning risk on the water. *South Atlantic Yacht Racing Association Newsletter*, Spring, 1.
- , —, and E.B. Curran, 1998: Deaths, injuries, and property damages from lightning by state in the United States. Preprints, International Lightning Detection Conference, November 16-18, Tucson, AZ, Global Atmospheric, Inc., Tucson, 12 pp.
- , —, R.J. Vavrek, and K.W. Howard, 1998: Educating individuals about lightning. Preprints, 7th Symposium on Education, January 11-16, Phoenix, AZ, American Meteorological Society, 27-30.
- , —, and E.B. Curran, 1999: Distributions of lightning-caused casualties and damages since 1959 in the United States. Preprints, 11th Conference on Applied Climatology, January 10-15, Dallas, TX, American Meteorological Society, 363-370.
- , —, and —, 1999: Demographics of U.S. lightning casualties and damages from 1959-1994. Proceedings, 11th International Conference on Atmospheric Electricity, June 7-11, Guntersville, AL, NASA/CP-1999-209261, 200-203.
- , —, and C. Zimmermann, 1999: Updated recommendations for lightning safety-1998. *Bulletin of the American Meteorological Society*, **80**, 2035-2041.
- , 2000: Lightning safety at schools. *Oklahoma's School Health*, June 2-6.
- , and M.A. Cooper, 2000: How to decrease today's lightning disabilities. Preprints, International Lightning Detection Conference, November 7-8, Tucson, AZ, Global Atmospheric, Inc., Tucson, 5 pp.
- , R.E. López, and B.C. Navarro, 2001: U.S. Lightning deaths, injuries, and damages in the 1890s compared to 1990s. NOAA Technical Memorandum OAR NSSL-106, 54 pp.
- , 2003: Activities and locations of recreation deaths and injuries from lightning. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-77 KMI, 6 pp.
- , and R.E. López, 2003: A comparison of current lightning death rates in the U.S. with other locations and times. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-34 KMS, 7 pp.
- , —, and B. Navarro, 2003: U.S. lightning deaths, injuries, and damages over the last century. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-36 KMS, 11 pp.
- , M.J. Murphy, and R.E. López, 2003: Distances and times between cloud-to-ground flashes in a storm. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-79 KMI, 8 pp.
- , 2004: Activities and locations of recreation deaths and injuries from lightning. Preprints, International Lightning Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 5 pp.
- , 2005: Lightning-caused deaths and injuries during hiking and mountain climbing. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper KMP-33, 9 pp.
- , 2005: Lightning-caused recreation deaths and injuries. Preprints, 14<sup>th</sup> Symposium on Education, January 9-13, San Diego, California, American Meteorological Society, 6 pp.
- , 2005: Spatial distributions of cloud-to-ground flashes and lightning fatalities in the United States over the last century. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper KMG-31, 9 pp.
- , and E.P. Krider, 2005: Suspension of an intercollegiate football game due to lightning. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper KMG-30, 9 pp.
- , R.E. López, and B.C. Navarro, 2005: Deaths, injuries, and damages from lightning in the United States in the 1890s in comparison with the 1990s. *Journal of Applied Meteorology*, **44**, 1563-1573.
- , and E.P. Krider, 2006: Suspension of a University of Arizona football game due to lightning. Preprints, International Lightning Detection Conference, April 24-25, Tucson, Arizona, Vaisala, 9 pp.
- , 2007: Annual rates of lightning fatalities by country. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07.PPRKM13, 13 pp.
- , 2007: Lightning-caused deaths and injuries in the vicinity of water bodies and vehicles. International Conference on Lightning and

- Static Electricity, August 28-31, Paris, France, paper IC07/PPRKM04, 15 pp.
- , J. Jensenius, W.P. Roeder, and M.A. Cooper, 2007: Comments on lightning safety advice on running to avoid being struck. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07/PPRKM03, 6 pp.
  - , 2008: Annual rates of lightning fatalities by country. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 14 pp.
  - , 2008: Is it dangerous to use a cell phone in a thunderstorm? *Lightning fact and fiction. Bottom Line Personal*, **29**, June 1, 13-14.
  - , 2008: Lightning-caused deaths and injuries in the vicinity of vehicles. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 10 pp.
  - , 2009: Lightning-caused deaths and injuries in and near dwellings and other buildings. Preprints, 4th Conference on the Meteorological Applications of Lightning Data, January 11-15, Phoenix, Arizona, American Meteorological Society, 20 pp.
  - , 2009: Lightning fatalities and fatality rates by U.S. state. Postprints, Intl. Conf. Lightning and Static Electricity, Sept. 15-17, Pittsfield, Massachusetts, paper GME-3, 12 pp.
  - , 2010: Lightning-caused casualties in and near dwellings and other buildings. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 19 pp.
  - , 2010: Lightning fatalities in tropical and subtropical regions. Preprints, 29th Conference on Hurricanes and Tropical Meteorology, May 10-14, Tucson, Arizona, American Meteorological Society, 10 pp.
  - , and N.W.S. Demetriades, 2010: GLD360 airport lightning warnings. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 5 pp.
  - , 2011: Recent studies of lightning safety and demographics. Preprints, 5th Conference on the Meteorological Applications of Lightning Data, January 23-27, Seattle, Washington, American Meteorological Society, 19 pp.
  - , K.L. Cummins, and N.W.S. Demetriades, 2011: Monthly distributions of NLDN and GLD360 cloud-to-ground lightning. Preprints, 5th Conference on the Meteorological Applications of Lightning Data, January 23-27, Seattle, Washington, American Meteorological Society, 14 pp.
  - , 2012: Diurnal variation of NLDN cloud-to-ground lightning in the United States. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 7 pp.
  - , 2012: Lightning-caused deaths and injuries in the vicinity of trees. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 8 pp.
  - , 2012: Recent studies of lightning safety and demographics. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 14 pp.
  - , 2012: Recent studies of lightning safety and demographics. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 15 pp.
  - , 2013: Diurnal variations of NLDN cloud-to-ground lightning in the United States. Preprints, 6th Conference on the Meteorological Applications of Lightning Data, January 7-10, Austin, Texas, American Meteorological Society, 9 pp.
  - , 2013: Lightning-caused deaths and injuries in the vicinity of trees. Preprints, 6th Conference on the Meteorological Applications of Lightning Data, January 7-10, Austin, Texas, American Meteorological Society, 8 pp.
  - , 2014: The visual identification of lightning-producing thunderstorm clouds. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 8 pp.
  - , 2014: Some aspects of global lightning impacts. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 6 pp.
  - , 2014: The visual identification of lightning-producing thunderstorm clouds. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 7 pp.
  - , N.W.S. Demetriades, and A. Nag, 2014: Lightning warnings with NLDN cloud and cloud-to-ground lightning data. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 9 pp.
  - , —, and —, 2014: Lightning warnings with NLDN cloud and cloud-to-ground lightning data. Preprints, XV International Conference on Atmospheric Electricity, June 15-20, Norman, Oklahoma, 14 pp.

- , —, and —, 2014: Lightning warnings with NLDN cloud and cloud-to-ground lightning data. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 10 pp.
- , 2015: Some aspects of global lightning impacts. Preprints, 7<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, January 4-8, American Meteorological Society, Phoenix, Arizona, 8 pp.
- , N.W.S. Demetriades, and A. Nag, 2015: Upgraded NLDN cloud pulse detection for small airport warning areas. Preprints, 7<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, January 4-8, American Meteorological Society, Phoenix, Arizona, 9 pp.
- , 2016: A summary of recent national-scale lightning fatality studies. *Weather, Climate, and Society*, **8**, 35-42.
- , 2016: Lightning-caused deaths and injuries related to agriculture. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, Vaisala, California, 5 pp.
- , 2016: Lightning-caused deaths and injuries related to agriculture. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 6 pp.
- , 2016: The number of documented global lightning fatalities. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 4 pp.
- , 2016: The number of documented global lightning fatalities. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 4 pp.
- , and M.A. Cooper, 2016: Lightning-caused deaths and injuries at schools. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- , and —, 2016: Lightning occurrence and social vulnerability. Chapter 1, in *Atmospheric Hazards – Case Studies in Modeling, Communication, and Society Impacts*. J.S.M. Coleman, Editor, InTech, 18 pp. doi: 10.5772/63001.
- , K.L. Cummins, and W.A. Brooks, 2016: Seasonal, monthly, and weekly distributions of NLDN and GLD360 cloud-to-ground lightning. *Monthly Weather Review*, **144**, 2855-2870.
- , —, and —, 2016: Seasonal lightning distributions over North America. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 8 pp.
- , N.W.S. Demetriades, and A. Nag, 2016: Objective airport warnings over small areas using NLDN cloud and cloud-to-ground lightning data. *Weather and Forecasting*, **31**, 1061-1069.
- , and E. Ataremwa, 2017: *Lightning impacts in developing countries of Africa and Asia*. Centre for Science and Technology of the Non-Aligned and Other Developing Countries, New Delhi, India, 143 pp.
- , and A.K.M.S. Islam, 2017: Lightning fatalities in Bangladesh in May 2016. Postprints, 8<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, Seattle, Washington, American Meteorological Society, 4 pp.
- , and D. Zhang, 2017 So you think you know lightning? A collection of electrifying fast facts. Booklet, Vaisala, Inc., 64 pp. [\[https://www.vaisala.com/en/system/files/documents/Lightning-Booklet.pdf\]](https://www.vaisala.com/en/system/files/documents/Lightning-Booklet.pdf)
- , and M.A. Cooper, 2018: Lightning fatalities in Africa from 2010-2017. Preprints, 34<sup>th</sup> International Conference on Lightning Protection, September 2-7, Rzeszow, Poland, 4 pp.
- , and K.W. Flanagan, 2018: Lightning impacts on college football games. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, March 12-15, Fort Lauderdale, Florida, 9 pp.
- , R.K. Said, and W.A. Brooks, 2018: Monthly GLD360 lightning percentages by continent. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, March 12-15, Fort Lauderdale, Florida, 4 pp.
- , A. Dewan, S. Mohammad, M.R. Karim, and M.F. Hosain, 2018: Lightning fatalities and injuries in Bangladesh from 1990 through 2017. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, March 12-15, Fort Lauderdale, Florida, 6 pp.
- , and M. Cooper, 2019: Overview of lightning injuries around the world. Preprints, 11<sup>th</sup> Asia-Pacific International Conference on Lightning, June 12-14, Hong Kong, China, 5 pp.
- , A. Dewan, R. Said, W.A. Brooks, M.F. Hossain, and M. Rafiuddin, 2019: Fatalities related to lightning occurrence and agriculture in Bangladesh. *International Journal of Disaster Risk Reduction*, **41**, 15 pp.
- , 2021: Lightning deaths and injuries while tending animals and fishing. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on



- Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 6 pp.
- , W.A. Brooks, and K.L. Cummins, 2021: Lightning occurrence and casualties in U.S. National Parks. *Weather, Climate, and Society*, **13**, 525-540.
- , and D.L. Zhang, 2022: Arizona lightning occurrence, casualties, and damages. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 913-917.
- , A. Laing, J.A. Cramer, and E.G. Thomson, 2022: Jamaica lightning occurrence, damage, and casualties. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 800-804.
- Hornstein, R.A., 1961: Lightning deaths and damage in Canada. Meteorological Branch, Dept. of Transport, Canada, CIR-34529, TEC-3493, 6 Feb. 1961, 10 pp.
- , 1962: Canadian lightning deaths and damage. Meteorological Branch, Dept. of Transport, Canada, CIR-3719, TEC-423, 11 Sept. 1962, 5 pp.
- Howard, K.W., and R.L. Holle, 1994: Lightning Danger! U.S. Department of Commerce, Environmental Research Laboratories, National Severe Storms Laboratory, Norman, OK, 1 pp. poster.
- , and —, 1995: ¡Peligro de rayos! U.S. Department of Commerce, Environmental Research Laboratories, National Severe Storms Laboratory, Norman, OK, 1 pp. poster.
- , —, and R.E. López, 1998: Lightning Danger! U.S. Department of Commerce, Environmental Research Laboratories, National Severe Storms Laboratory, 1 pp. poster.
- Hoque, M. A.-A., M.M. Billah, and B. Pradhan, 2019: Spatio-temporal and demographic distribution of lightning related casualties in northeastern part of Bangladesh, *International Journal of Disaster Risk Reduction*, **38**, 101197.
- Hunt, H.G.P., R. Blumenthal, K.J. Nixon, and C. Gomes, 2020: A multidisciplinary forensic analysis of two lightning deaths observed in South Africa. *International Journal of Disaster Risk Reduction*, **51**, 15 pp.
- Hunt, V., 2000: Approaching storm season makes lightning safety key. *NATA News*, National Athletic Trainers' Association, April, 10-12.
- Hyduke, W., 2014: Operational applications of real-time lightning data. Preprints, 5<sup>th</sup> International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, Vaisala, 5 pp.
- Ibanez, H.F., C.A. Avendano, and H.E. Ortiz, 2005: Correlation between keraunic level and losses of electrical and electronic equipment for the city of Bogota (Columbia). Proceedings, 8<sup>th</sup> International Symposium on Lightning Protection (VIII SIPDA), November 21-25, Sao Paulo, Brazil, 451-456.
- Illiyas, F.T., 2014: Lightning hazard in tropical countries: Need for international policy intervention. *Southasiadisasters.net*, **119**, 8.
- , K. Mohan, S.K. Mani, and A.P. Pradeepkumar, 2014: Lightning risk in India: Challenges in disaster compensation. *Economic & Political Weekly*, June 7, **XLIX**, 23, 23-27.
- Ilyenko, O., W. Janischewskyj, and V. Shostak, 2000: Electrosoliton model of ball lightning and preliminary safety recommendations. Proceedings, 25<sup>th</sup> International Conference on Lightning Protection, September 18-22, Rhodes, Greece, 135-139.
- Ioannidis, A.I., P.N. Mikropoulos, T.E. Tsovilis, and Nikolaos D. Kokkinos, 2022: Lightning protection of historical buildings and cultural heritage monuments: A literature review. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 710-715.
- Jacob, S., W.H. Siew, N. Basharat, and S. Choi, 2016: Lightning protection of a temporary structure in open area. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- Jandrell, I.R., R. Blumenthal, R.B. Anderson, and E. Trengove, 2009: Recent lightning research in South Africa with a special focus on keraunopathology. Paper K-1, 16th International Symposium on High Voltage Electricity Congress, August 24-28, Cape Town, South Africa, 6 pp.
- Jay, J., and J. Jay, 2003: A new respect for lightning. *The Earth Scientist*, **19**, No.1, 14-15.
- Jayarathne, K.P.S.C., and C. Gomes, 2012: Public perceptions and lightning safety education in Sri Lanka. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 7 pp.
- Jensenius, J.S., and D.B. Franklin, 2006: Lightning kills – Play it safe. NOAA's efforts to educate the public on the dangers of lightning. Preprints, International Lightning Detection Conference, April 24-25, Tucson, Arizona, Vaisala, 7 pp.
- , —, and S. Hodanish, 2008: Lightning kills – Play it safe: NOAA's efforts to educate the public on the dangers of lightning. Preprints,

- 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 5 pp.
- , and —, 2008: Lightning kills – play it safe: NOAA's continuing efforts to educate the public on lightning and lightning safety. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 7 pp.
- , M. Bragaw, R. Holle, and R. Harris, 2010: Lightning safety policies - A look at an incident at the Ocoee schools in Orange County, Florida. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 9 pp.
- , and D. Franklin, 2012: A review of NOAA's lightning safety awareness campaign and it's impact across The United States. Preprints, 4<sup>th</sup> International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 8 pp.
- , 2014: A detailed analysis of recent lightning deaths in the United States. Preprints, 5<sup>th</sup> International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, Vaisala, 8 pp.
- , and D.B. Franklin, 2014: NOAA's efforts to reduce lightning fatalities through public education and awareness. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 5 pp.
- , 2016: A detailed analysis of lightning deaths in the United States from 2006 through 2015. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 8 pp.
- , 2016: NOAA's lightning safety awareness efforts – What we've accomplished in 15 years. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 5 pp.
- , R.L. Holle, and M.A. Cooper, 2022: The U.S. National Lightning Safety Council's efforts to reduce lightning casualties. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 805-808.
- Jusevicius, M.A.R., and C.A.A. Beneti, 2007: Meteorological analysis of lightning related injuries in the south/southeast of Brazil. Preprints, 9<sup>th</sup> International Symposium on Lightning Protection, 26-30 November, Foz do Iguacu, Brazil, 4 pp.
- Kalindekafe, L., S. Gondwe, V. Katonda, T. K. Nthara, C. Chisenga, P. Gomani, T. Kapichi, M. Mkandawire, and R.L. Holle, 2018: Lightning fatalities in Malawi: A retrospective study from 2010 to 2017. Preprints, 34<sup>th</sup> International Conference on Lightning Protection, September 2-7, Rzeszow, Poland, 7 pp.
- Kalubowila, K.C., H. Herath, and N. Wijesekara, 2017: Prevention of lightning related adverse effects: knowledge, attitudes and practices among residents in Kiriella Medical Officer of Health area. *Journal of the College of Community Physicians of Sri Lanka*, **23**, 118-126.
- , —, and —, 2019: The distribution and characteristics of lightning injuries among residents in a rural area in Sri Lanka. *International Journal of Advanced Research*, **7**, 599-604.
- Kanata, J., A. Ametani, and K. Yamamoto, 2012: Threats of lightning current through an electric vehicle. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.
- Kern, A., and G. Ditka, 2008: Probability of damage of electrical and electronic system due to indirect lightning flashes – Investigation of data from German insurance companies. Preprints, 29<sup>th</sup> International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 4 pp.
- Keul, A.M., M.M. Freller, R. Himmelbauer, B. Holzer, and B. Isak, 2009: Lightning knowledge and folk beliefs in Austria. *Journal of Lightning Research*, **1**, 28-36.
- , C. Duernfeld, J. Holzleitner, A. Schoerghofer, and L.A. Weichenmeier, 2011: Lightning knowledge and safety behavior in Austria and Bavaria, Germany. 6<sup>th</sup> European Conference on Severe Storms, October 3-7, Palma de Mallorca, Balearic Islands, Spain, 2 pp.
- , 2012: Public lightning protection behavior in Central Europe – mission accomplished? Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 3 pp.
- , B. Brunner, J. Allen, K.A. Wilson, M. Taszarek, C. Price, G. Soleiman, S. Sharma, P. Roy, M.S. Aini, A.B. Elistina, M.Z.A. Ab Kadir, and C. Gomes, 2018: Multihazard weather risk perception and preparedness in eight countries. *Weather, Climate, and Society*, **10**, 501-518.
- Khatun, M., M.A. Islam, and M.A. Haque, 2016: Studies of thunderstorms and lightning on

- human health, agriculture and fisheries in Mymensingh and Jamalpur district of Bangladesh. *Progressive Agriculture*, **27**, 57-63.
- Kitagawa, N., et al., 1990: Safety guide against lightning hazards. 20th International Conference on Lightning Protection, Interlaken, Switzerland, September 24-28.
- , M. Ohashi, and T. Ishikawa, 1990: Safety guide against lightning hazards. *Research Letters in Atmospheric Electricity*, **10**, 37-44.
- , A. Sugita, and S. Takahashi, 1999: The two important characteristics of ground flashes for the human safety. Proceedings, 11th International Conference on Atmospheric Electricity, June 7-11, Guntersville, AL, NASA/CP-1999-209261, 207-210.
- , 2000: The actual mechanisms of so-called step voltage injuries. Proceedings, 25th International Conference on Lightning Protection, September 18-22, Rhodes, Greece, 781-785.
- , M. Ohashi, and T. Ishikawa, 2001: The substantial mechanisms of step voltage effects. *Journal of Atmospheric Electricity*, **21**, 87-94.
- , —, and —, 2002: The lightning accidents that involve numerous people in the vicinities of struck points. Proceedings, 26th International Conference on Lightning Protection, September 2-6, Cracow, Poland, 643-646.
- , —, and —, 2005: The classification of the effects of lightning on the human being. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper KMP-34, 5 pp.
- , —, and —, 2007: Non-serious lightning effects on human beings. Preprints, 13th International Conference on Atmospheric Electricity, August 13-18, Beijing, China, 3 pp.
- Kithil, R., 1995: A risk management approach to lightning safety. Proceedings, 1995 International Aerospace and Ground Conference on Lightning and Static Electricity, September 26-28, Williamsburg, Virginia, 9-1 to 9-10.
- , 1998: Lightning death and injuries at a military airfield: A case study. Proceedings, 24th International Conference on Lightning Protection, September 14-18, Birmingham, United Kingdom, Staffordshire University, 852-855.
- , 1998: Why not start a national lightning safety institute in your country? Proceedings, 24th International Conference on Lightning Protection, September 14-18, Birmingham, United Kingdom, Staffordshire University, 993-995.
- , 2000: Lightning Safety Handbook: A preview of the anthology. Preprints, International Lightning Detection Conference, November 7-8, Tucson, AZ, Global Atmospheric, Inc., Tucson, 5 pp.
- , and V. Rakov, 2001: Small shelters and safety from lightning. Proceedings, International Conference on Lightning and Static Electricity, September 10-14, Seattle, Washington, Society of Automotive Engineers, 2001-01-2896, 3 pp.
- , and K. Johnston, 2002: Lightning and aquatics safety: A cautionary perspective for indoor pools. *Aquatics International*, 2 pp.
- , 2006: Lightning protection to high value facilities: A Peruvian gold mine case study. Preprints, International Lightning Detection Conference, April 24-25, Tucson, Arizona, Vaisala, 3 pp.
- , 2012: Employee safety at open pit mines in Peru, Tanzania, The Dominican Republic and the USA. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 2 pp.
- , 2012: Fourteen points to lightning safety. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 2 pp.
- Kizito, N., and N. Pheneas, 2019: Lightning myths versus science facts: Traditional beliefs on thunderstorms among Rwandans. *International Journal of Arts and Humanities (IAH) Ethiopia*, **8**, 10 pp.
- Kompacher, M., G. Kindermann, and S. Pack, 2006: Examples of direct lightning hazards and their scientific analyses. Preprints, 28th International Conference on Lightning Protection, September 18-22, Kanazawa, Japan, 1217-1222.
- , —, and —, 2012: Fire losses and human accidents caused by lightning - an Austrian overview. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- Koutras, K.N., E.E. Kasfiki, E.C. Pyrgioti, 2021: Statistical analysis of deaths and damages caused by lightning strikes in Greece. Preprints, 35th International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 6 pp.

- Krider, E.P., 2003: On the chances of being struck by cloud-to-ground lightning. Preprints, IEEE Power Tech 2003, June 23-26, Bologna, Italy.
- , and K.E. Kehoe, 2004: On the chances of being struck by cloud-to-ground lightning. Preprints, 17<sup>th</sup> Conference on Probability and Statistics in the Atmospheric Sciences, January 11-15, Seattle, WA, American Meteorological Society, 5 pp.
- , and —, 2004: On quantifying the exposure to cloud-to-ground lightning. Proceedings, 18th International Conference on Lightning Protection, Avignon, France, 184-189.
- , 2005: On quantifying the exposure to cloud-to-ground lightning. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper PHE-39, 6 pp.
- Krider, E.P., 2012: Franklin, Ingen-Housz, and protecting gunpowder from lightning in the 18th century. Preprints, 31<sup>st</sup> International Conference on Lightning Protection, September 2-7, Vienna, Austria, 7 pp.
- Kretzer, H.F., 1895: *Lightning record: A book of reference and information*. Volume I. St. Louis, MO, 106 pp.
- Kumarasinghe, N., 2008: A low cost lightning protection system and its effectiveness. Preprints, International Lightning Meteorology Conference, April 24-25, Tucson, Arizona, Vaisala, 6 pp.
- Kummerfeldt, P., 2000: Lightning incident. *The Backcast*, **26**, 4-5.
- Lambert, W., M. Wheeler, and W. Roeder, 2006: Lightning probability forecasts at Kennedy Space Center/Cape Canaveral Air Force Station, Florida. Preprints, International Lightning Meteorology Conference, April 26-27, Tucson, Arizona, Vaisala, 9 pp.
- Langley, R.L., M.A. Dunn, and J.D. Esinhart, 1991: Lightning fatalities in North Carolina 1972-1988. *North Carolina Medical Journal*, **52**, 281-284.
- Lanken, D., 2000: Struck by lightning. *Canadian Geographic*, **120**, 20-32.
- Latorre, J.A., J. E. Rodriguez, C. A. Martinez, J.A. Cristancho, and F. Roman, 2016: Characterization of a metallic pearl-like necklace stroked by lightning: *preliminary results*. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 4 pp.
- Lawson, R., 1889: On the deaths caused by lightning in England and Wales from 1852 to 1880, as recorded in the returns of the Registrar-General. *Quarterly Journal of the Royal Meteorological Society*, **15**, 140-156.
- Lee, L.S., 2009: Comprehensive and location specific lightning information service in Hong Kong. Preprints, 4th Conference on the Meteorological Applications of Lightning Data, January 11-15, Phoenix, Arizona, American Meteorological Society, 5 pp.
- Lee, Y.-J., and B.-H. Lee, 2016: A surge protective device with dual protection levels for on-hook and off-hook operating voltages in telephone networks. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 6 pp.
- Leick, D., 2010: How lightning safety practices differ in wind energy, sports and construction applications. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 7 pp.
- Leite, E.A., C.A. Beneti, C.A. Vasconcellos, and J. Jusevicius, 2006: Evaluating lightning warning strategies based on risk analysis; Case of one oil refinery site in Brazil (oil refinery site case). Preprints, International Conference on Grounding and Earthing & 2<sup>nd</sup> International Conference on Lightning Physics and Effects, 26-29 November, Maceio, Brazil, 501-503.
- Lengyel, M.M., 2004: Lightning casualties and their proximity to surrounding cloud-to-ground lightning. Thesis, Master of Science, University of Oklahoma, Norman, Oklahoma, 68 pp.
- , H.E. Brooks, R.L. Holle, and M.A. Cooper, 2005: Lightning casualties and their proximity to surrounding cloud-to-ground lightning. Preprints, 14<sup>th</sup> Symposium on Education, January 9-13, San Diego, California, American Meteorological Society, 7 pp.
- , M.A. Cooper, R. Holle, and H. Brooks, 2010: The role of multidisciplinary teams and public education in decreasing lightning casualties worldwide. Preprints, 30th International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 3 pp.
- Loboda, M., 2008: Lightning deaths and injuries in Poland in period of 2001-2006. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 6 pp.
- Lopez, J., E. Perez, J. Herrera, D. Aranguren, and L. Porras, 2012: Thunderstorm warning alarms methodology using electric field mills and lightning location networks in mountainous regions. Preprints, 31<sup>st</sup> International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.

- , V. Urgoiti, M. Gonzalez, J.A. Aranda, S. Gaztelumendi, and P. Anitua, 2013: A multi-disciplinary approach to a side-flash lightning incident to human beings in the Basque Country. *Natural Hazards and Earth System Sciences*, **13**, 721–726.
- López, R.E., and R.L. Holle, T.A. Heitkamp, M. Boyson, M. Cherington, and K. Langford, 1993: The underreporting of lightning injuries and deaths in Colorado. *Bulletin of the American Meteorological Society*, **74**, 2171-2178.
- , R.L. Holle, and T.A. Heitkamp, 1994: Deaths, injuries, and property damage due to lightning in Colorado from 1950 to 1991 based on Storm Data. NOAA Technical Memorandum ERL NSSL-103, Norman, OK, 45 pp.
- , and —, 1995: Demographics of lightning casualties. *Seminars in Neurology*, **15**, 286-295.
- , —, and T.A. Heitkamp, 1995: Lightning casualties and property damage in Colorado from 1950 to 1991 based on *Storm Data*. *Weather and Forecasting*, **10**, 114-126.
- , —, and R.M. Passi, 1995: Recent trends in the number of lightning deaths and injuries in the United States. Proceedings, International Conference on Lightning and Static Electricity, September 26-28, Williamsburg, VA, U.S. Navy Report NAWCADPAX--95-306-PRO, 45-1-45-10.
- , and —, 1996: Fluctuations of lightning casualties in the United States: 1959-1990. *Journal of Climate*, **9**, 608-615.
- , and —, 1997: Long-term changes in lightning casualties in the United States. Proceedings, Lightning and Mountains '97, June 1-5, Chamonix Mont-Blanc, France, 219-222.
- , and —, 1997: Long-term changes in lightning casualties. Abstracts, URSI/IEEE International Scientific Meeting on Electromagnetics in Medicine 1997, November 3-5, Chicago, IL, 83.
- , and —, 1998: Changes in the number of lightning deaths in the United States during the twentieth century. *Journal of Climate*, **11**, 2070-2077.
- , and —, 1998: Lightning casualties and changing lifestyles during the twentieth century. Preprints, International Lightning Detection Conference, November 16-18, Tucson, AZ, Global Atmospheric, Inc., Tucson, 6 pp.
- , and —, 1999: Climate related trends in the number of lightning deaths during the twentieth century. Preprints, 11th Conference on Applied Climatology, January 10-15, Dallas, TX, American Meteorological Society, 371-378.
- , and —, 1999: The distance between successive lightning flashes. NOAA Technical Memorandum ERL NSSL-105, Norman, OK, 29 pp.
- Lo Piparo, A. Kern, and C. Mazzetti, 2012: Some masterpoints about risk due to lightning. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.
- Lu, Y., Z. Zhou, S. Gu, D. Wu, J. Guo, and H. Tao, 2016: Research on lightning warning method based on the characteristics of atmospheric electric field. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- Lubasi, F.C., M.Z.A. ab Kadir, C. Gomes, and M.A. Cooper, 2012: Case studies of lightning related injuries and property damage in Zambia. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- Lushine, J.B., 1996: Underreporting of lightning deaths in Florida. Preprints, International Lightning Detection Conference, November 6-8, Tucson, Arizona, Global Atmospheric, Inc., Tucson, 5 pp.
- , W.P. Roeder, and R.J. Vavrek, 2005: Lightning safety for schools: An update. Preprints, 14<sup>th</sup> Symposium on Education, January 9-13, San Diego, California, American Meteorological Society, 10 pp.
- Ma, M., W.T. Lyu, Y. Zhang, and Q. Meng, 2008. Analysis of lightning disasters in china and their correlative factors. *Advances in Earth Sciences*, **23**, 856–865.
- , —, —, and J. Yang, 2008: Characteristics of lightning exposure in China from 1997 to 2006. *Chinese Journal of Applied Meteorological Sciences*, **19**, 393–400.
- Maduranga, U.G.D., and M. Edirisinghe, 2021: Lightning climatology and human vulnerability to lightning hazards in a school community: A case study in Sri Lanka using LIS data from TRMM satellite. *International Journal of Disaster Management*, **4**, 29-50.
- Maggied, S.M., 2002: Lightning's incredible attack on American football in 1970. *The Ohio State Medical Journal*, **69**, 603-606.
- Mahdariza, F., 2017: The determination of lightning disaster hazard index using analytical hierarchy process. *Elkawnie: Journal of Islamic Science and Technology*, **3**, no. 2., 233-238.

- Mahomed, M., 2021: Detection and early warning of lightning and extreme storm events in Kwazulu-Natal, South Africa. Ph.D. Dissertation, College of Agriculture, Engineering and Science, University of KwaZulu-Natal, Pietermaritzburg, South Africa, 281 pp.
- , A.D. Clulow, S. Strydom, M.J. Savage, and T. Mabhaudhi, 2021: Lightning monitoring and detection techniques: Progress and challenges in South Africa. *South Africa Journal of Science*, **117**, 7 pp.
- , —, —, T. Mabhaudhi, and M.J. Savage, 2022: Assessment of a ground-based lightning detection and near-real-time warning system in the rural community of Swayimane, KwaZulu-Natal, South Africa. *Weather, Climate, and Society*, **13**, 605-621.
- , —, —, —, —, K.T. Chetty, and S. Strydom, 2022: Detection and early warning of lightning and extreme storm events in Kwazulu-Natal, South Africa. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 924-928.
- Mainwaring, L., and G. Friczka, 2016: Lightning safety efforts in Canada 2009 to 2015. Preprints, 6th International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 7 pp.
- Makdissi, M., and P. Brukner, 2002: Recommendations for lightning protection in sport. *Medical Journal of Australia*, **177**, 35-37.
- Mäkelä, A., J. Haapalainen, and J. Mäkelä, 2010: Estimation of lightning hazard of an approaching thunderstorm. Preprints, 30th International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 3 pp.
- , R. Shrestha, and R. Karki, 2014: Thunderstorm characteristics in Nepal during the pre-monsoon season 2012. *Atmospheric Research*, **137**, 91-99.
- Mäkelä, J., E. Karvinen, N. Porjo, A. Makela, and T. Tuomi, 2003: Attachment of natural lightning flashes to trees: Preliminary statistical characteristics. *Journal of Lightning Research*, **1**, 9-21.
- Marin, R., 2008: Lightning situation in Romania. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 4 pp.
- Mary, A.K., and C. Gomes, 2012: Lightning accidents in Uganda. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 6 pp.
- , —, A. Gomes, and W.F.W. Ahmad, 2014: Lightning accidents in Uganda. Preprints, 32nd International Conference on Lightning Protection, October 11-18, Shanghai, China, 10 pp.
- , and C. Gomes, 2014: Lightning safety of under-privileged communities around lake Victoria. *Geomatics, Natural Hazards and Risk*, **6**, 669-685.
- Mashreky, S.R., M.J. Hossain, A. Rahman, A. Biswas, T.F. Khan, and F. Rahman, 2012: Epidemiology of electrical injury: findings from a community based national survey in Bangladesh. *Injury*, **43**, 113-116.
- Masukwedza, G., and H. Batisai, 2017: Strategies for understanding lightning myths and beliefs- A case study for Zimbabwe. In: *Lightning impacts in developing countries of Africa and Asia*, R. Holle and E. Ataremwa, Editors, Centre for Science and Technology of the Non-Aligned and Other Developing Countries, New Delhi, India, 28-29.
- Masum, J.H., 2019: Climatic hazards in Bangladesh: A literature review. Coastal Development Partnership (CDP), Bangladesh, ISBN: 978-984-34-7002-4, 40 pp.
- Matsangouras, I.T., P.T. Natsos, and J. Kapsomenakis, 2016: Cloud-to-ground lightning activity over Greece: Spatio-temporal analysis and impacts. *Atmospheric Research*.
- Mawla, M.R., M.S.A.A.F. Shiblee, M.Z.R. Khan, M.M.H. Mamun, M.M. Hasan, and N. Sultana, 2018: Statistical analysis of lightning myths and suggestive measures in context of Bangladesh. Preprints, 4th International Conference on Electrical Engineering and Information & Communication Technology, September 13-15, Dhaka, Bangladesh, Military Institute of Science and Technology, 666-671.
- McKechnie, I.S., and I.R. Jandrell, 2008: A description and analysis of the path followed by a lightning current after a direct stroke to a tree adjacent to a dwelling house. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 7 pp.
- Mckenzie, A., 2022: Teaching lightning safety at schools – an Australian perspective. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 1078-1083.
- Medical Surveillance Monthly Report (MSMR), 2009: Lightning strike injuries, active component, U.S. Armed Forces, 1999-2008.

- Armed Forces Health Surveillance Center, **16**, 6-10.
- Meel, B.L., 2007: Lightning fatalities in the Transkei sub-region of South Africa. *Medicine, Science, and the Law*, **47**, 161-164.
- , 2008: Unnatural deaths among children in the Transkei region of South Africa. *Medicine, Science, and the Law*, **48**, 232-236.
- Meilleur, G., 2008: Providing lightning protection. *Tree Care Industry Magazine*, **19**, June, 40-45.
- Mills, B., D. Unrau, C. Parkinson, B. Jones, J. Yessis, and K. Spring, 2006: Striking back: An assessment of lightning-related fatality and injury risk in Canada. Final Technical Report, August, Environment Canada, 38 pp.
- , K. Spring, and D. Chretien, 2008: A review of lightning impacts in Canada. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 15 pp.
- , D. Unrau, C. Parkinson, B. Jones, J. Yessis, K. Spring, and L. Pentelow, 2010: Assessment of lightning-related damage and disruption in Canada. *Natural Hazards*, **52**, 481-499. doi: [10.13007/s11069-009-9391-2](https://doi.org/10.13007/s11069-009-9391-2).
- , 2020: An updated assessment of lightning-related fatality and injury risk in Canada: 2002–2017. *Natural Hazards*, 13 pp., doi: [doi.org/10.1007/s11069-020-03942-9](https://doi.org/10.1007/s11069-020-03942-9).
- Milzman, P., L. Moskowiz, and M. Mardel, 1999: Lightning strikes at a mass gathering. *Southern Medical Journal*, **92**, 708-710.
- Ming, M., L. Weitao, Z. Yijun, and M. Qing, 2007: Analysis on correlation between lightning data and lightning casualties and property damage in China. Preprints, 13<sup>th</sup> International Conference on Atmospheric Electricity, August 13-18, Beijing, China, 3 pp.
- Mishra, S.P., 2018: Lightning during golden spike of the anthropocene epoch: The study of vulnerability Odisha, India in the global context. *International Journal of Advanced Research*, **6**, 150-170.
- Mitsuda, R., 1927: Lightning survey in Japan. *General Electric Review*, March, 240-244.
- Mogil, H.M., M. Rush, and M. Kutka, 1977: Lightning---An update. Preprints, 10<sup>th</sup> Conference on Severe Local Storms, Omaha, Nebraska, American Meteorological Society, 226-230.
- , 1979: Lightning in 1978. *Weatherwise*, **32**, 17-20.
- , and J.L. Campbell, 1980: Update on lightning. *Weatherwise*, **33**, 36-37.
- Mohapatra, B., M. Walia, and N. Saggurti, 2018: *Weather and Climate Extremes*, **21**, 110-116.
- Moniruzzaman, M., F. Rahman, M.A. Siddik, and M.A. Hannan, 2019: Spatio-temporal distribution of lightning induced fatalities and injuries in Bangladesh. *Jagannath University Journal of Life and Earth Sciences*, **5**(2), 169-183.
- Montanyà, J., D. Aranguren, N. Pineda, G. Solà, D. Romero and V. March, 2008: Total lightning, electrostatic field and meteorological radar applied to lightning hazard warning. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 4 pp.
- Mousa, A.M., 1986: Safety against lightning for linemen working on de-energized power lines". *IEEE Transactions on Power Delivery*, **1**, No. 1, 245-250.
- Mpanga, S., A. Zulu, M. Mwanza, and R.L. Holle, 2022: Improved parameters for lightning protection system designs for buildings in Zambia. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 704-709.
- Mulder, M.B., L. Msalu, T. Caro, and J. Salerno, 2012: Remarkable rates of lightning strike mortality in Malawi. *PLoS One*, **7** (1), 09 January. doi: [10.1371/journal.pone.0029281](https://doi.org/10.1371/journal.pone.0029281).
- Murphy, M.J., and K.L. Cummins, 2000: Early detection and warning of cloud-to-ground lightning at a point of interest. Preprints, 2<sup>nd</sup> Symposium on Environmental Applications, January 9-14, Long Beach, California, American Meteorological Society, 172-177.
- , and R.L. Holle, 2005: A warning method for cloud-to-ground lightning based on total lightning and radar information. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper LDM-36, 10 pp.
- , and R.L. Holle, 2006: Warnings of cloud-to-ground lightning hazard based on total lightning and radar information. Preprints, 2<sup>nd</sup> Conference on Meteorological Applications of Lightning Data, January 29-February 2, Atlanta, Georgia, American Meteorological Society, 5 pp.
- , and —, 2006: Warnings of cloud-to-ground lightning hazard based on combinations of lightning detection and radar information. Preprints, International Lightning Detection Conference, April 24-25, Tucson, Arizona, Vaisala, 6 pp.
- , and —, 2007: Warnings of cloud-to-ground lightning hazard based on combinations of lightning detection and radar information.

- International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper Ic07/PPR58, 6 pp.
- , and —, 2008: Cloud-to-ground lightning warnings using total lightning mapping and electric field mill observations. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 9 pp.
- , —, and N.W.S. Demetriades, 2008: Cloud-to-ground lightning warnings using electric field mill and lightning observations. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 9 pp.
- , and R.L. Holle, 2015: Comment on “Deaths by lightning in Mexico (1979–2011): Threat or vulnerability?”. *Weather, Climate, and Society*, **7**, 273-274.
- , and R. K Said, 2016: Preliminary analysis of lightning warnings in and near the Rocky Mountains using U.S. National Lightning Detection Network and electric field mill data. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, 7 pp.
- Murty, O.P., 2009: Lightning fatality with blast, flame, heat and current effects: A macroscopic and microscopic view. *Journal of Forensic and Legal Medicine*, **16**, 162-167.
- , C.K. Kian, M.H.A. Husin, R. Kumar, N. Kumar, W. Yuhana, and W.M. Yusuf, 2009: Fatal lightning strikes in Malaysia. *American Journal of Forensic Medicine Pathology*, September, **30**(3), 246-51.
- Naccarato, K.P., and O. Pinto Jr., 2007: Methodology for accurate CG lightning forecast. Preprints, 9<sup>th</sup> International Symposium on Lightning Protection, 26-30 November, Foz do Iguacu, Brazil, 5 pp.
- , and —, 2012: Lightning warning and analysis of lightning threats risks for human life protection in Brazil. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 10 pp.
- Nag, A., R.L. Holle, and M. Murphy, 2017: Cloud-to-ground lightning over the Indian subcontinent. Postprints, 8<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, Seattle, Washington, American Meteorological Society, 6 pp.
- Naito, Y., S. Yanagawa, and K. Yamamoto, 2016: High voltage impulse experiment on electric automobiles and its verification part 2. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 6 pp.
- Navarrete-Aldana, N., M.A. Cooper, and R.L. Holle, 2014: Lightning fatalities in Colombia from 2000 to 2009. *Natural Hazards*, **74**, 1349-1362.
- , —, and —, 2014: Lightning fatalities in Colombia from 2000 to 2009. Preprints, 5<sup>th</sup> International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, Vaisala, 7 pp.
- , —, and —, 2014: Lightning fatalities in Colombia from 2000 to 2009. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 7 pp.
- , —, and —, 2015: Lightning fatalities in Colombia from 2000 to 2009. Preprints, 7<sup>th</sup> Conference on the Meteorological Applications of Lightning Data, January 4-8, American Meteorological Society, Phoenix, Arizona, 7 pp.
- , 2016: Lightning injuries in Colombia. From lack of awareness to prevention. Preprints, World Meeting on Lightning, April 6-8, Cartagena de Indias, Colombia, 3 pp.
- Nizamuddin, S., 1992: Deaths caused by lightning in India. *Weather*, **47**, 366-367.
- National Weather Service, 2002: Lightning safety outdoors. *Colorado Climate*, **3**, 3-4.
- Nibigira, E., and C. Gomes, 2014: Lightning environment in Burundi. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 4 pp.
- Nicora, M.G., E.J. Quel, R.E. Burgesser, and E.E. Ávila, 2013: Electric atmospheric activity in Argentina, a study for estimating the annual death rate by lightning. Preprints, 7<sup>th</sup> International Symposium on Lightning Protection (XII SIPDA), Belo Horizonte, Brazil.
- , F. Barle, E. Marcuzzi, J.L. Bali, and P.M. Vasquez, 2016: Thunderstorm warning in Argentina. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 4 pp.
- , D. Baissac, M. Falco, M.F. Barle, R. Delia and C. Villagran, 2021: GeoRayos web and app. Lightning protection in Argentina to increase awareness. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 6 pp.
- Nguyen, B.H., M. MacKay, B. Bailey, and T.P. Klassen, 2004: Epidemiology of electrical and



- lightning related deaths and injuries among Canadian children and youth. *Injury Prevention*, **10**, 122-1124.
- Noggle, C., L. Byerley, T.P. Harlan, A. Harlan, and R. Scarborough, 2002: Magnetic evidence of lightning currents on the ground. Preprints, International Lightning Detection Conference, October 16-18, Tucson, Arizona, Vaisala, Tucson, 7 pp.
- Nourirad, G., M. Izadi, C. Gomes, and M.Z.A. ab Kadir, 2014: Variation of minimum safety separation for non-conducting lightning targets. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 4 pp.
- Nyambe, S.H., F.C. Lubasi, C. Gomes, and A. Gomes, 2014: Analysis of lightning occurrence in Zambia. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 7 pp.
- Odam, G.A.M., 2003: Physiological effects of lightning and static electricity to aircrew. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-30 KMP, 16 pp.
- Olson, S., 2003: Keraunoparalysis and Lichtenberg ferning: A post lightning strike case study. Preprints, International Conference on Lightning and Static Electricity, September 16-18, Blackpool, England, Royal Aeronautical Society, paper 103-70 KMI, 6 pp.
- Oram, T.D., R. Lafosse, and B. Hoeth, 2006: The Johnson Space Center lightning watch and warning Program. Preprints, 2<sup>nd</sup> Conference on Meteorological Applications of Lightning Data, January 29-February 2, Atlanta, Georgia, American Meteorological Society, 10 pp.
- Orville, R.E., and A.C. Silver, 1997: Lightning ground flash density in the contiguous United States: 1992-95. *Monthly Weather Review*, **125**, 631-638.
- OSHA (Occupational Safety and Health Administration), 2016: FactSheet: Lightning safety when working outdoors. OSHA – DTSEM FS-3863 05.2016, 5 pp.
- Pack, S., and J. Schröttner, 2022: A 17-year retrospective review of lightning victims in Austria with focus on lightning effects. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 873-878.
- Pakiam, J.E., T.C. Chao, and J. Chia, 1981: Lightning fatalities in Singapore. *The Meteorological Magazine*, **110**, 175-187.
- Palmero, M., A.R. Dotterweich, G. Lhotsky, and J Walker, 2013: Lightning safety: How is it conducted at NIAAA member high schools? *The Journal of Sport*, **2**, 60-77.
- Parsons, T.L., G.R. Huffines, and C.C. Cox, 2000: Distance criteria for safe operations when lightning is present. Preprints, 2<sup>nd</sup> Symposium on Environmental Applications, January 9-14, Long Beach, California, American Meteorological Society, 50-52.
- Pasha, E., 1888, Injuries caused by lightning in Africa. *Nature*, April 19, 582-583.
- Paul, S.H., H.O. Sharif, and A.M. Crawford, 2018: Fatalities caused by hydrometeorological disasters in Texas. *Geosciences*, **8**, 22 pp., doi:10.3390/geosciences 8050186.
- Paxton, C.H., and R.F. Morales Jr., 1997: Florida lightning victims during 1996. National Weather Service Southern Region report SR/SSD 97-34, 5 pp.
- , J. Colson, and N. Carlisle, 2008: Florida lightning deaths and injuries 2004-1007. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 3 pp.
- Peppas, G.D., K.I. Bekas, I.A. Naxakis, E.C. Prygioti, and V. Charalampakos, 2012: Analysis of lightning impacts in Greece. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- Phillips, M.C.K., and T.W. Schmidlin, 2014: The current status of lightning safety knowledge and the effects of lightning education modes on college students. *Natural Hazards*, **70**: 1231-1245.
- Phiri, G.R., 2017: Enhancing lightning hazard mitigation through traditional customs and religion in Malawi. In: *Lightning impacts in developing countries of Africa and Asia*, R. Holle and E. Ataremwa, Editors, Centre for Science and Technology of the Non-Aligned and Other Developing Countries, New Delhi, India, 16-27.
- Pickerel, D., 2012: Thunderstruck. *Wind Builder*, July-August, 8-9.
- Pincus, J.L., S.L. Lathrop, A. Briones, and M.B. Aurelius, 2015: Lightning deaths: A retrospective review New Mexico's cases, 1977-2009, *Journal of Forensic Sciences*, **60**. 66-71.
- Pinto, I.R.C.A., I. Cardoso, O. Pinto Jr. and N. Geier, 2010: Lightning fatalities in Brazil in the last decade. Preprints, International Lightning

- Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 3 pp.
- Pinto, O., A.C.V. Saraiva, and G. Zepka, 2015: A new tool to avoid lightning tragedies like in Praia Grande in December 2014. Proceedings, 8<sup>th</sup> International Symposium on Lightning Protection (XIII SIPDA), September 28-October 2, Balneario Camboriu, Brazil.
- Pope, D., 2000: The flash that kills. *Utah Outdoors*, August, 11-12.
- Poveda, G., J.C. Espinoza, M.D. Zuluaga, S.A. Solman, R. Garreaud, and P.J. van Oevelen, 2020: High impact weather in the Andes. *Frontiers in Earth Science*, **8**, article 182, 32 pp.
- Prentice, S.A., 1973: Death by lightning. *Medical Journal of Australia*, **2**, 252.
- Preston, J.L., 2010: Lightning safety: Suggested guidelines to reduce the risk of strikes. Applied Research Project, Executive Fire Officer Program, National Fire Academy, 93 pp.
- Pretorius, P., 2022: Incidental shock from an indoor “braai” – Postulates on the source and mechanism. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 868-872.
- , 2022: Lightning protection system for a rhino boma – Design considerations. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 1037-1044.
- , and C.P.J. Scheijen, 2022: Post mortem engineering perspectives on two giraffes killed by lightning. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 1030-1036.
- Primeau, M., G.H. Engelstatter, and K.K. Bares, 1995: Behavioral consequences of lightning and electrical injury. *Seminars in Neurology*, **15**, 279-285.
- Raga, G.B., M.G. de la Para, and B. Kucienska, 2014: Deaths by lightning in Mexico (1979-2011): Threat or vulnerability? *Weather Climate, and Society*, **6**, 434-444.
- , —, —, 2015: Reply to “Comment on ‘Deaths by lightning in Mexico (1979–2011): Threat or vulnerability?’” *Weather, Climate, and Society*, **7**, 275-278.
- Rahman, M.M., I.A. Nabila, M.S. Sakib, N.J. Silvia, M.A. Galib, I.A. Shobuj, L. Hasan, M.A. Chisty, F. Rahman, E. Alam, and A.R.M.T. Islam, 2022: Knowledge, Attitude, and Practices towards Lightning in Bangladesh. *Sustainability*, **14**, 19 pp.
- Rakov, V.A., 2000: Lightning protection of structures and personal safety. Preprints, International Lightning Detection Conference, November 7-8, Tucson, AZ, Global Atmospheric, Inc., Tucson, 10 pp.
- Randerson, D., 2004: Unified lightning detection, alert, and warning system. Preprints, International Lightning Detection Conference, June 7-9, Helsinki, Finland, Vaisala, 3 pp.
- Reagan, M., M. Brown, T. Farney, R. Kroot, N. Owe, L. Watkins, T. Watkins, and B. Williams, 2013: NCAA football and cloud-to-ground lightning: A probability analysis. *Journal of Geography and Natural Disasters*.
- Reilly, L., 2003: Lightning! *Arizona Morgan Horse Association Newsletter*, September/October issue.
- , 2003: Lightning! *Arizona Morgan Horse Association Newsletter*, September/October, 7-9.
- , 2003: Lightning! *Southeast Arizona Horseman's Association Newsletter*, October.
- Richey, S., R. Holle, and M.A. Cooper, 2007: A comparison of three data collection methods for reporting of lightning fatalities in Florida from 1995 to 2004. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper Ic07/PPR KM01, 2 pp.
- Ritenour, A.E., M.J. Morton, J.G. McManus, D.J. Barillo, and L.C. Cancio, 2008. Lightning injury: A review. *Burns*, **34**, doi:10.1016/j.burns.2007.11.006.
- Roberts, S.K., and D.M. Elsom, 2002: Analysis of storm insurance claims in the United Kingdom, 1997-2001. Abstracts, European Conference on Severe Storms 2002, August 26-30, Prague, Czech Republic, 109-110.
- Rodríguez M., D., J.P. Correa P., J.E. Rodríguez M., L.Y. Casas L., and F. Román, 2022: Effects on conductive fabrics of different lightning current densities. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 885-889.
- Rodriguez, O.A., O.C. Rocha, K. Morcillo, and D.E. Villamil, 2022: Promoting lightnings afety inside school articulation programs at the Colombian National Training Service (SENA). Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 745-748.
- Roeder, W.P., J.E. Sardonía, S.C. Jacobs, M.S. Hinson, D.E. Harms, and J.T. Madura, 1999: Avoiding triggered lightning threat to space launch from the Eastern Range/Kennedy Space Center. Preprints, 20<sup>th</sup> Conference on Severe Local Storms, September 11-15,

- Orlando, Florida, American Meteorological Society, 120-124.
- , J.T. Madura, and D.E. Harms, 2000: Lightning safety of personnel and launch facilities at Cape Canaveral Air Station and Kennedy Space Center. Preprints, 20th Conference on Severe Local Storms, September 11-15, Orlando, Florida, American Meteorological Society, 17pp.
  - , —, and —, 2000: Lightning safety for personnel at Cape Canaveral Air Station and Kennedy Space Center. Joint Army Navy NASA Air Force/Safety & Environmental Protection Symposium, May 8-12, Cocoa Beach, Florida, CPIA Publication 698, 59-70.
  - , R.J. Vavrek, F.C. Brody, J.T. Madura, and D.E. Harms, 2001: Lightning safety for schools. Preprints, 10<sup>th</sup> Symposium on Education, January 14-19, Albuquerque, American Meteorological Society, New Mexico, 89-92.
  - , 2003: Lightning safety: It could save your life. *Observer-The Magazine for Air Force Weather*, 32-33.
  - , 2003: Lightning – The underrated weather hazard! *Road & Rec--The Air Force Journal of Occupational, Recreational, and Driving Safety*, **15**, 14-19.
  - , J.S. Jones, D.W. Oien, and J.T. Madura, 2004: The weather safety education program at 45<sup>th</sup> Weather Squadron. Preprints, 11<sup>th</sup> Conference on Aviation, Range, and Aerospace, American Meteorological Society, Hyannis, Massachusetts, October 3-8, 8 pp.
  - , 2004: Teaching lightning safety. *Observer-The Magazine of Air Force Weather*. March-April, 2 pp.
  - , and J.T. Willingham, 2004: Lightning safety for homes and businesses. *Disaster Safety Review*, Institute for Business & Home Safety, **3**, 5pp.
  - , and R.J. Vavrek, 2004: Lightning safety for schools & other public buildings: An update. *Public Sector Practice Specialty Newsletter*, American Society of Safety Engineers, Winter, **3**, 8 pp.
  - , and —, 2005: The need for lightning safety in schools. *The Journal for the Liberal Arts and Sciences*, **9**, No. 4, 20-26.
  - , J.S. Jones, and D.W. Oien, 2004: The weather safety education program at 45<sup>th</sup> Weather Squadron. Preprints, 11<sup>th</sup> Conference on Aviation, Range, and Aerospace Meteorology, October 4-8, Hyannis, Massachusetts, 9 pp.
  - , 2007: The effectiveness of short notice outdoor lightning risk reduction and why it should not be taught. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07-KM09, 7 pp.
  - , 2007: Pernicious lightning myths. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07-ABKM06, 5 pp.
  - , 2007: Teaching lightning safety--A five level method. International Conference on Lightning and Static Electricity, August 28-31, Paris, France, paper IC07-PPRKM05, 7 pp.
  - , 2008: Analysis of short notice outdoor lightning risk reduction and comments on why it should not be taught. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 7 pp.
  - , 2008: Lightning safety research requirements. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 3 pp.
  - , 2008: Recent changes in lightning safety. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 5 pp.
  - , 2008: Recent updates in lightning safety. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 6 pp.
  - , 2008: Short notice outdoor lightning risk reduction-Evaluating its performance and discussion on why it should not be taught. International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 8 pp.
  - , 2009: Last minute outdoor lightning risk reduction-A method to estimate its effectiveness and comments on its utility in public education. Preprints, 4th Conference on the Meteorological Applications of Lightning Data, January 11-15, Phoenix, Arizona, American Meteorological Society, 9 pp.
  - , 2009: Research required to improve lightning safety. Preprints, 4th Conference on the Meteorological Applications of Lightning Data, January 11-15, Phoenix, Arizona, American Meteorological Society, 5 pp.
  - , 2010: Lightning safety procedures for the public. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 19 pp.
  - , 2011: A statistical model for the inter-annual and intra-annual number of lightning fatalities in the United States. Preprints, 5th Conference on the Meteorological Applications of Lightning Data, January 23-27, Seattle, Washington, American Meteorological Society, 4 pp.

- , 2011: Is the risk of a lightning casualty actually less in an open field than a forest? Preprints, 5th Conference on the Meteorological Applications of Lightning Data, January 23-27, Seattle, Washington, American Meteorological Society, 7 pp.
- , R.L. Holle, M.A. Cooper, and S. Hodanish, 2011: Communicating lightning safety effectively. Preprints, 5th Conference on the Meteorological Applications of Lightning Data, January 23-27, Seattle, Washington, American Meteorological Society, 18 pp.
- , 2012: A statistic model for the inter-annual and intra-annual fatalities from lightning in the U.S. and comparison to other storm phenomena. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 6 pp.
- , 2012: A statistical model for U.S. annual lightning fatalities. *Newsletter*, National Weather Association, July, 3.
- , 2012: Effective communication of lightning safety. *Newsletter*, National Weather Association, July, 1.
- , 2012: Is an open field actually safer from lightning than a forest? Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 7 pp.
- , and J. Jensenius, 2012: A new high-quality lightning fatality database for lightning safety education. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 9 pp.
- , R.L. Holle, M.A. Cooper, and S. Hodanish, 2012: Lessons learned in communicating lightning safety effectively. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 20 pp.
- , 2012: Lightning has fallen to third leading source of U.S. storm deaths. Preprints, National Weather Association Annual Meeting, October 6-11, Madison, Wisconsin, paper P2.29, 9 pp.
- , 2012: Lightning safety applications of NOAA's new lightning fatality database. Preprints, National Weather Association Annual Meeting, October 6-11, Madison, Wisconsin, paper P2.30, 10 pp.
- , 2014: An update to predicting the number of U.S. annual lightning fatalities. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 13 pp.
- , 2014: Backcountry lightning risk reduction—Lightning crouch versus standing with feet together. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 16 pp.
- , B.H. Cummins, W.S. Ashley, R.L. Holle, and K.L. Cummins, 2014: Mapping lightning fatality risk. Preprints, 5th International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, Vaisala, 13 pp.
- , —, —, —, and —, 2014: Mapping lightning fatality risk. Preprints, 32nd International Conference on Lightning Protection, October 11-18, Shanghai, China, 12 pp.
- , 2015: Predicting the expected number of U.S. lightning fatalities for a year and for a date within that year. Preprints, 7th Conference on the Meteorological Applications of Lightning Data, American Meteorological Society, January 4-8, Phoenix, Arizona, 7 pp.
- , B.H. Cummins, K.L. Cummins, R.L. Holle, and W.S. Ashley, 2015: Lightning fatality risk map of the contiguous United States. *Natural Hazards*, **79**, 1681-1692.
- , 2016: Changes in U.S. annual lightning fatalities from 1990-2015. Preprints, 6th International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 7 pp.
- , T.M. McNamara, M. McAleenan, D.A. Winters, L.M. Maier, and L.L. Huddelston, 2017: The 2014 upgrade to the lightning warning circles used by 45th Weather Squadron: Postprints, 18th Conference on Aviation, Range, and Aerospace Meteorology, January 22-26, Seattle, Washington, American Meteorological Society, 13 pp.
- Roi, G.S., 2021: Fatal events related to running competitions in the mountains. *Wilderness and Environmental Medicine*, <https://doi.org/10.1016/j.wem.2020.12.001>.
- Rojas, H.E., F. Santamaria, O.F. Escobar, and F.J. Román, 2017: Lightning research in Colombia: Lightning parameters, protection systems, risk assessment and warning systems. *Ingeniería y Desarrollo*, Universidad del Norte, Colombia, **35**, 240-261. ISSN: 0122-3461.
- Roman, F., A. Alarcon, and F. Santamaria, 2005: Analysis of a lightning accident in Gavle, Sweden. Proceedings, 8th International Symposium on Lightning Protection (VIII SIPDA), November 21-25, Sao Paulo, Brazil, 352-357.
- , F. Santamaria, and A. Alarcon, 2007: Modeling and analysis of a lightning accident in Gävle,

- Sweden. *Journal of Lightning Research*, **1**, 51-59.
- Rousseau, A., W.J. Chu, W. Qiang, and M. Tao, 2008: Testing facility and methodology for local lightning detectors: Basis for scientific and standardization discussions. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 7 pp.
- , P. Gruet, W.J. Chu, and J.-Y. Lojou, 2008: How to qualify and use local storm detectors for risk assessment? International Conference on Grounding and Earthing and 3rd International Conference on Lightning Physics and Effects, 16-20 November, Florianopolis, Brazil, 6 pp.
- , M. Guthrie, J. Struck, J. Covino, 2010: Application of risk analysis method for temporary events. Preprints, 30th International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 5 pp.
- , and Gruet, 2012: Storm detectors – Tests and application. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 7 pp.
- Said, R., and M. Murphy, 2016: GLD360 upgrade: Performance analysis and applications. Preprints, International Lightning Detection Conference, April 18-21, San Diego, California, Vaisala, 6 pp.
- Salerno, J., L. Msalu, T. Caro, and M.B. Mulder, 2012: Risk of injury and death from lightning in Northern Malawi. *Natural Hazards*, **62**, 853–862.
- Sanderson, D.L., E.D. White, A.J. Geyer, W.P. Roeder, and A.J. Gutman, 2020: Optimizing the lightning warning radii at Spaceport Florida. *Weather and Forecasting*, **35**, 523-536.
- Santamaria, F., A. Alarcon, and F. Roman, 2006: Analysis of a lightning accident considering a modified human body model. Preprints, 28<sup>th</sup> International Conference on Lightning Protection, September 18-22, Kanazawa, Japan, 1249-1253.
- Scarneo-Miller, S., K.W. Flanagan, L.N. Belval, J.K. Register-Mihalik, D.J. Casa, and L.J. DeStefano, 2021: Adoption of lightning safety best-practices policies in the secondary school setting. *Journal of Athletic Training*, **56**, 491-498.
- Scaravaggi, M., and U. Lazzarini, 1998: Lightning protection of personnel performing civil and mechanical works during the installation of gas pipelines in rocky tunnels. Proceedings, 24th International Conference on Lightning Protection, September 14-18, Birmingham, United Kingdom, Staffordshire University, 864-867.
- Scheijen, C.P.J., 2020: Inferred giraffe deaths from lightning strikes. *African Journal of Ecology*, 5 August, 4 pp.
- Schmitt, S., 2016: Thunderstorm warning systems: Why lightning detection networks should be considered as one of the most relevant solution in Western Europe. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 5 pp.
- , and A. Rousseau, 2016: Thunderstorm warning systems: IEC 62793 standard. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- , and —, 2022: Thunderstorm warning systems efficiency. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 585-588.
- , R.L. Holle, and M.A. Cooper 2022: How to effectively prevent lightning-related incidents? Analysis of 215 events over Europe. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 795-799.
- Schulenburg, 1976: Medical aspects and curiosities of golfing. *The Practitioner*, October, **217**, 625.
- Schultz, C.J., G.T. Stano, P.J. Meyer, B.C. Carcione, and T. Barron, 2017: Lightning decision support using VHF total lightning mapping and NLDN cloud-to-ground data in North Alabama. *Journal of Operational Meteorology*, **5**, 134-145.
- Schultz, D., 2000: Weather watch: Avoiding lightning; tracking lightning storms. *Canoe & Kayak*, July, **14**; 26.
- Selvi, S., and S. Rajapandian, 2016: Analysis of lightning hazards in India. *International Journal of Disaster Risk Reduction*, **16**, 22-24.
- Sepp, M., T. Pae, and E. Uemaa, 2021: Lightning fatalities in Estonia, 1880–1940. *Natural Hazards*, doi.org/10.1007/s11069-021-04835-1.
- Sharma, Shriram, R.L. Holle, and M.A. Cooper, 2021: Life on Siwalik and Lesser Himalayas under the extreme threat of lightning. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 4 pp.

- , R.J. Bhusal, and R.L. Holle, 2022: Lightning - A potential cause of house fires during the pre-monsoon season: A case study in Nepal. Preprints, 36th International Conference on Lightning Protection, 02-07 October, Cape Town, South Africa, 858-861.
- , C. Gomes, S.G. Kumar, and F.C. Lubasi, 2022: Ubiquitous and perplexing proliferation of nonstandard lightning protection system in developing countries. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 641-646.
- , B. Neupane, H.B. KC, M.P. Koirala, N.P. Damase, S. Dhakal, C. Gomes, M.A. Cooper, R.L. Holle, R.J. Bhusal, J. Cramer and R. Said, 2022: Lightning threats in Nepal: occurrence and human impacts. *Geomatics, Natural Hazards and Risk*, **13**, 1-18.
- Sharma, Shriyog, Shriram Sharma, and C. Gomes, 2022: Archaeological sites in Nepal and India: Concerns of lightning risks. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 1104-1110.
- Shearman, K.M., and C.F. Ojala, 1999: Some causes for lightning data inaccuracies: The case of Michigan. *Bulletin of the American Meteorological Society*, **80**, 1883-1891.
- Shrigiriwar, M.B., R.K. Gadhari, V.T. Jadhao, C.V. Tingne, and N.B. Kumar, 2014: Study of fatalities due to lightning in Nagpur region of Maharashtra. *Journal of Indian Academy of Forensic Medicine*, **36**.
- Silva, L.M.A., M.A. Cooper, R. Blumenthal, and N. Pliskin, 2016: A follow-up study of a large group of children struck by lightning. *South African Medical Journal*, **106**, 929-932.
- Silverberg, M.J., A. Frommelt, J.L. Lange, J.F. Brundage, and M.B. Rubertone, 2002: Lightning-associated injuries and deaths among military personnel --- United States, 1998-2001. *Morbidity and Mortality Weekly Report (MMWR)*, September 27; **51** (38), 859-862.
- Sims, G.C., A.J.S. Elder, C. Elder, and M. Harris, 2015: Assessment of lightning safety knowledge among youth sport coaches. *The Sport Journal*, U.S. Sports Academy, ISSN: 1543-9518.
- Singh, O., and J. Singh, 2015: Lightning fatalities over India: 1979-2011. *Meteorological Applications*, **22**, 770-778.
- , P. Bhardwaj, and J. Singh, 2017: Distribution of lightning casualties over Maharashtra, India. *Journal of the Indian Geophysical Union*, **21**, 415-424.
- Sleiwah, A., J. Baker, C. Gowers, D.M. Elsom, and A. Rashid, 2018: Lightning injuries in Northern Ireland. *The Ulster Medical Journal*, **87**, 168-172.
- Smith, T., 1991: On lightning: Hair standing on end may be warning of an impending strike. *British Medical Journal*, **303**, 1563.
- Smith, C.B., 2008: *Lightning: Fire from the sky*. Dockside Sailing Press, Newport Beach, California, 288 pp.
- Soulage, A., N. Demetriades, M. Murphy, K. Hufnagel, M. Dunn, and K. Cummins, 2004: On the use of thunderstorm warning in active lightning protection. Proceedings, 18th International Conference on Lightning Protection, Avignon, France, 202-207.
- Spengler, J.O., D.P. Connaughton, and J. Earnshaw, 2002: Perspectives on lightning safety risk management in sport and recreational activities. *World Leisure Journal*, **44**, No. 4.
- Spring, K., and A. Morris, 2006: Broad scale real time flash density maps lightning risk indicators for the general public. Preprints, International Lightning Meteorology Conference, April 26-27, Tucson, Arizona, Vaisala, 6 pp.
- Stagliano, J.J., B. Valant-Spaight, and J. Clayton Kerce, 2009: Lightning forecasting before the first strike. Preprints, 4<sup>th</sup> Conference on Meteorological Applications of Lightning Data, January 11-15, Phoenix, Arizona, American Meteorological Society, 10 pp.
- Stall, C.A., K.L. Cummins, P. Krider, and J. Cramer, 2008: Detecting multiple ground contacts in cloud-to-ground lightning flashes. International Conference on Grounding and Earthing and 3rd International Conference on Lightning Physics and Effects, 16-20 November, Florianopolis, Brazil, 10 pp.
- Stallins, J.A., 2002: An overlooked source of weather-related property damage in the southeast: Lightning losses for Georgia, 1996-2000. *Southeastern Geographer*, **42**, 349-354.
- Stano, G.T., H.E. Fuelberg, and W.P. Roeder, 2008: Empirical forecasting of lightning cessation at Cape Canaveral Air Force Station and Kennedy Space Center. Preprints, 3<sup>rd</sup> Conference on Meteorological Applications of Lightning Data, January 20-24, New Orleans, Louisiana, American Meteorological Society, 20 pp.
- , —, and —, 2008: An empirical lightning cessation forecast scheme at the Cape

- Canaveral Air Station and the Kennedy Space Center. Preprints, International Lightning Detection Conference, April 21-23, Tucson, Arizona, Vaisala, 22 pp.
- State Climatologist, 1967: Lightning fatalities and injuries in Michigan 1897-1966. U.S. Department of Commerce, Environmental Science Services Administration, CI Series No. 2, 12 pp.
- Steed, S., and A. Whidden, 2018: Lightning safety for Florida agriculture workers. Document AE526, The Institute of Food and Agricultural Sciences, University of Florida, 4 pp., <https://edis.ifas.ufl.edu/>.
- Steiner, M., W. Deierling, and R. Bass, 2013: Balancing safety and efficiency of airport operations under lightning threats: A look inside the ramp closure decision-making process. *The Journal of Air Traffic Control*, **55**, 16-23.
- , —, K. Ikeda, and R. Bass: 2014: Implications of lightning data uncertainty on personnel safety and operational efficiency decisions. Preprints, International Lightning Meteorology Conference, March 20-21, Tucson, Arizona, 9 pp.
- Strelec, G., A. Kunneke, and F. Jooste, 2022: Method for detection and identification of lightning strokes likely to cause wildfires. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 958-962.
- Stringfellow, M., 2013: Residential lightning fires in the USA: An overview. *IEEE Transactions on Industry Applications*, **49**. 1738-1743.
- Ströhle, M., B. Wallner, M. Lanthaler, S. Rauch, H. Brugger, and P. Paal, 2018: Lightning accidents in the Austrian alps – a 10-year retrospective nationwide analysis. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, **26**, 9 pp.
- Sueta, H.E., 2021: The need to protect people from the dangers of lightning [in Portuguese], *Potencia*, **16 (182)**, 30-33.
- , J.B. de Oliveira, M.A. Cooper, J. Modena, and S.R. Santos, 2021: Medidas de segurança para proteção de pessoas contra descargas atmosféricas – estatísticas de acidentes e proposta de criação de organização específica para proteção contra descargas atmosféricas. Preprints, X IEEE ESW-Brasil 2021, October 19-21, 6 pp. [online].
- , J. Modena, J.O. Barbosa, M. Shigihara, and R. Zilles, 2012: Survey to analyze the general knowledge of Brazilians about lightning. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 980-985.
- , J. Modena, J.O. Barbosa, M. Shigihara, and R. Zilles, 2012: Survey to analyze the general knowledge of Brazilians about lightning. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 980-985.
- Surtees, A.J., A. Gillespie, A. Kern, and A. Rousseau, 2004: Development of a risk assessment calculator based on a simplified form of the IEC 62305-2 standard on lightning protection. Proceedings, 18th International Conference on Lightning Protection, Avignon, France, 883-889.
- Syakura, A.R., M.Z.A. Ab Kadir, C. Gomes, A.B. Elistina, and M.A. Cooper, 2018: Analysis of a fatality case caused by “a bolt from the blue”. Preprints, 34<sup>th</sup> International Conference on Lightning Protection, September 2-7, Rzeszow, Poland, 6 pp.
- , C. Gomes, E. Trengove, and M.Z.A. ab Kadir, 2019: Public beliefs about lightning in Malaysia. Preprints, International Symposium on Lightning Protection (XV SIPDA), September 30-October 4, Sao Paulo, Brazil, 6 pp.
- , M.Z.A. Ab Kadir, C. Gomes, M. Izadi, A.B. Elistina, J. Jasni, and M. Osman, 2019: On the comparison of lightning fatality rates between states in Malaysia from 2008-2019. Preprints, 11<sup>th</sup> Asia-Pacific International Conference on Lightning, June 12-14, Hong Kong, China, 8 pp.
- Szczerbinski, M., 1998: Numerical estimation of lightning hazard to humans during outdoor activity. Proceedings, 24th International Conference on Lightning Protection, September 14-18, Birmingham, United Kingdom, Staffordshire University, 832-835.
- , 2003: Lightning hazards and risks to humans: Some case studies. *Journal of Electrostatics*, **59**, 15-23.
- Szedenik, N. I. Kiss, T. Bodocs, and I. Berta, 2016: Developed simplification of the risk assessment. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 4 pp.
- Sznaider, R.J., J. Foerster, and J. Block, 2006: Lightning decision support for public safety. Preprints, International Lightning Detection Conference, April 24-25, Tucson, Arizona, Vaisala, 5 pp.
- Tan, H.H., and S.H. Goh, 2003: Lightning injury: Changi Hospital experience. *Hong Kong*

- Journal of Emergency Medicine*, **10(4)**, 223-232.
- Tang, Q., J. Sun, and M. Zhan, 2009: Comprehensive application of meteorological data in the analysis on lightning accident. Preprint Proceedings, China International Forum on Lightning Protection and Disaster Mitigation, September 8-10, Chongqing, China, 170-171.
- Tang, H., J. Zhou, Z. Huang, and X. Zhang, 2014: Study on lightning early warning information in the application of lightning risk assessment. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 4 pp.
- Tanriover, S.T., A. Kahraman, 2013: Lightning-related fatalities and injuries in Turkey. Preprints, 7th European Conference on Severe Storms, June 3-7, Helsinki, Finland, 3 pp.
- Tao, H., S. Gu, H. Wang, W. Feng, J. Guo, Y. Wang, and L. Zhang, 2016: Method of lightning warning based on atmospheric electric field and lightning location data. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 5 pp.
- Taussig, H.B., 1969: "Death" from lightning and the possibility of living again. *American Scientist*, **57**, 306-316.
- Ten Duis, H.J., 1998: Lightning strikes: danger overhead. *British Journal of Sports Medicine*, **32**, 276-278.
- Thacker, M.T.F., R. Lee, R.I. Sabogal, and A. Henderson, 2008: Overview of deaths associated with natural events, United States, 1979–2004. *Disasters*, **32**, 303-325.
- Thomas, A.J., 1990: Deaths in Britain from the weather in 1989. *The Journal of Meteorology*, **15**, 281-283.
- Thomson, E.M., and T.M. Howard, 2013: Lightning injuries in sports and recreation. *FACSM Current Sports Medicine Reports*, **12**, 2, 120–124. doi: 10.1249/JSR.0b013e318287728f.
- Thompson, S.N., Z.W. Wilson, C.B. Cole, A.R. Kennedy, and R.D. Aycock, 2017: Case report: Mass casualty lightning strike at ranger training camp. *Military Medicine*, **182(5)**, doi: 10.7205/MILMED-D-16-DD229.
- Tilev-Tanriover, S., A. Kahraman, M. Kadioglu, and D.M. Schultz, 2015: Lightning fatalities and injuries in Turkey. *Natural Hazards and Earth Systems Science*, **15**, 1881-1888.
- Tobias, J.M., 2002: Design of personnel shelters for protection against lightning effects. Proceedings, GROUND'2002 (International Conference on Grounding) and Earthing & 3<sup>rd</sup> WAE (3<sup>rd</sup> Brazilian Workshop on Atmospheric Electricity), November 4-7, Rio de Janeiro, Brazil, 155-158.
- Tommasini, R., F. Palamara, and E. Pons, 2008: The lightning protection of tree: Effects of lightning strikes and risk management. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 4 pp.
- Tovar, C., D. Aranguren, J. López, J. Inampué, and H. Torres, 2014: Lightning risk assessment and thunderstorm warning systems. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 5 pp.
- Trengove, E., and I.R. Jandrell, 2010: Strategies for understanding lightning myths and beliefs. Preprints, 30th International Conference on Lightning Protection, September 13-17, Cagliari, Italy, 6 pp.
- , and —, 2012: Leveraging a mobile culture for lightning awareness: the African context. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- , 2013: Lightning myths and beliefs in South Africa: Their effect on personal safety. Ph. D. Thesis, University of the Witwatersrand, Johannesburg, South Africa.
- , and F. C. Lubasi, 2015: Lightning Science and Lightning Protection: Some Selected Topics. Centre for Science & Technology of the Non-aligned and Other Developing Countries (NAM S&T Centre), Saya Publishing House, New Delhi, ISBN 9789351243533.
- Tushemereirwe, R., M.A. Cooper, D. Tuhebwe, and F.M. D'ujanga, 2016: The most effective methods for delivering severe weather early warnings to fishermen on Lake Victoria. Preprints, 6<sup>th</sup> International Lightning Meteorology Conference, April 18-21, San Diego, California, Vaisala, 6 pp.
- , M.A. Cooper, D. Tuhebwe, and F. M. D'uganga, 2017: The most effective methods for delivering severe weather early warnings to fishermen on Lake Victoria. In: *Lightning impacts in developing countries of Africa and Asia*, R. Holle and E. Ataremwa, Editors, Centre for Science and Technology of the Non-Aligned and Other Developing Countries, New Delhi, India, 80-93.
- , D. Tuhebwe, M.A. Cooper, and F.M. D'ujanga, 2017: The most effective methods for delivering severe weather early warnings to fishermen on Lake Victoria. *PLOS Current*



- Disasters*, February 22, 16 pp., doi: 10.1371/currents.dis.d645f658cf20bc4a23499be913f1cbe1.
- , M.A. Cooper, and R. Holle, 2021: Investigation of lightning mass casualty incident at Mongoyo School, Uganda. Preprints, 35<sup>th</sup> International Conference on Lightning Protection and International Symposium on Lightning Protection (XVI SIPDA), September 20-26, Colombo, Sri Lanka, 5 pp.
- , and M.A. Cooper, 2022: Lightning mass casualty incident killing ten, injuring four, and traumatizing an entire village. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 862-867.
- Uddin, M.S., and R.H. Suravi, 2019: The rise of a new disaster in Bangladesh: analysis of Characteristics and vulnerabilities of lightning during March to September 2018. Proceedings, International Conference on Disaster Risk Management, Dhaka, Bangladesh, 511-516.
- USDA, 2007: Cattle and calves nonpredator death loss in the United States, 2005. USDA-APHIS-VS, CEAH, National Animal Health Monitoring System, Fort Collins, CO, #N462.0507, 68pp.
- Vagasky, C., 2022: One strike, you're out: Lightning during professional baseball games. *Weather, Climate, and Society*, **14**, 365-371.
- Vanneste, E., P. Weyens, D.R. Poelman, K. Chiers, P. Deprez, and B. Pardon, 2015: Lightning related fatalities in livestock: Veterinary expertise and the added value of lightning location data. *The Veterinary Journal*, **203**, 103-108.
- Van Olst, M. D. A., 1990: Minimising lightning fatalities: Lightning earth currents in Zimbabwe. Proceedings, The First All-Africa International Symposium on Lightning, April 30-May 4, Harare, Zimbabwe, 8 pp.
- Vavrek, J., R.L. Holle, and J. Allsopp, 1993: Flash to bang. *The Earth Scientist*, National Earth Science Teachers Association, **10**, 3-8.
- , —, and —, 1993: Flash to bang. *Spectrum*, Illinois Science Teachers Association, **19**, 21-26.
- , —, and —, 1994: Flash to bang. Reading 10, Project Earth Science: Meteorology, P.S. Smith and B.A. Ford, Editors, National Science Teachers Association, Arlington, VA, 210-219.
- , —, and —, 1994: Flash to bang=5 seconds per mile. *The Hoosier Science Teacher*, **19**, 101-110.
- , —, and —, 1996: Time tells distance when you measure "flash to bang." *Torch*, US Air Force Air Education and Training Command, **3**, 12-17.
- , —, and R.E. López, 1999: Updated lightning safety recommendations. Preprints, 8<sup>th</sup> Symposium on Education, January 10-15, Dallas, TX, American Meteorological Society, 58-61.
- Veenema, L. C., 1920: The audibility of thunder. *Monthly Weather Review*, **48**, 62
- Vigansky, H.N., 1985: General summary of lightning, 1985. In: *Storm Data*, **27**, No. 12, 37-41.
- Villamil, D.E., F. Santamaria, and W. Diaz, 2015: Lightning disaster risk assessment method in Colombia: A review of educational methodologies on lightning safety. Preprints, International Symposium on Lightning Protection (XIII SIPDA), September 28-October 2, Balneario Camboriu, Brazil, 146-150.
- , —, and —, 2016: Towards of comprehensive understanding of lightning risk management in Colombia: An insight into the current context of disaster risk management. Preprints, 33<sup>rd</sup> International Conference on Lightning Protection, September 25-30, Estoril, Portugal, 4 pp.
- , N. Navarrete, and M.A. Cooper, 2019: Keraunoparalysis: An explanation for the more severe lightning injuries reported in developing countries. Preprints, International Symposium on Lightning Protection (XV SIPDA), September 30-October 4, Sao Paulo, Brazil, 5 pp.
- , N. Navarrete, and M.A. Cooper, 2021: Keraunoparalysis and burning thatch: A proposed explanation for severe lightning injuries reported in developing countries. *Electric Power Systems Research*, **197** 107301.
- , H.E. Rojas, F. Santamaria, R.L. Holle, and W. Brooks, 2022: Analysis of the lightning mortality risk in the provinces of Cundinamarca – Colombia. Preprints, 36<sup>th</sup> International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 821-824.
- Wachtel, H., M. Cherington, and P. Yarnell, 2005: Sub-visible, low thermal, lightning may account for cases of "unexplained" sudden cardiac death. Preprints, International Conference on Lightning and Static Electricity, September 20-22, Seattle, Washington, Boeing Company, paper KMP-57, 3 pp.

- Walsh, K.M., and B. Bennett., 1996: Making a case for lightning safety policy in intercollegiate athletics. Preprints, International Lightning Detection Conference, November 4-6, Tucson, AZ, Global Atmospheric, Inc., Tucson, 3 pp.
- , 1997: When thunder rolls: Lightning on the football fields. *American Football Quarterly*, **3**, 79.
- , M.J. Hanley, S.J. Graner, D. Beam, and J. Bazluki, 1997: A survey of lightning policy in selected Division I colleges. *Journal of Athletic Training*, **32**, 206-210.
- , B. Bennett, M.A. Cooper, R. Holle, R. Kithil, and R. López, 2000: National Athletic Trainers' Association position statement: Lightning safety for athletics and recreation. *Journal of Athletic Training*, **35**, 471-477.
- , M.A. Cooper, R. Kithil, B. Bennett, R. Holle, and R. López, 2000: Recommendations under consideration for lightning safety for athletics and recreation. Proceedings, 51<sup>st</sup> Annual Meeting and Clinical Symposia, National Athletic Trainers' Association, June 28-July 2, Nashville, TN, 268-270.
- , 2012: Lightning and severe thunderstorms in event management. *Current Sports Medicine Reports*, **11**, 131-134.
- , M.A. Cooper, R. Holle, V.A. Rakov, W.P. Roeder, and M. Ryan, 2013: National Athletic Trainers' Association Position Statement: Lightning Safety for Athletics and Recreation. *Journal of Athletic Training*, **48**, 258-270.
- Waltz, A.L., 2005: Hunters & anglers: Beware of lightning. *Alabama Wildlife Federation*, **69**, 29-31/
- Wang, J., and Y. Wang, 2009: Discussion on the combination application of ground electric field data and lightning positioning data in lightning warning. Proceedings, China International Forum on Lightning Protection and Disaster Mitigation, September 8-10, Chongqing, China, 43-45.
- Wang, Q., and J. Wang, 2008: Potential vulnerability analysis and vulnerability zoning of thunderstorm disaster in Shanghai. Preprints, 29th International Conference on Lightning Protection, June 23-26, Uppsala, Sweden, 4 pp.
- Wang, Z., 2009: Speech at the CLPDM 2009 opening ceremony. China International Forum on Lightning Protection and Disaster Mitigation, September 8-10, Chongqing, China, 1 pp.
- Wang, Z., Y. Xu, Y. Liu, H. Kang, J. Cao, Y. Hu, and Y. Tang, 2009: Application and service for lightning monitoring and early warning integrated system of Hunan Province. Preprint Proceedings, China International Forum on Lightning Protection and Disaster Mitigation, September 8-10, Chongqing, China, 41.
- Weigel, E.P., 1976: Lightning, the underrated killer. *NOAA*, **6**, 4-11.
- Wiley, S., 1998: Shocking news about lightning and pools. *USA Swimming Safety Quarterly*, **4**, 1-2.
- , 1999: When lightning strikes. *Splash*, **7**, 28.
- Williams, V.F., A.A. Oetting, and S. Stahlman, 2018: Lightning strike injuries, active component, U.S. Armed Forces, 2008-2017. Medical Surveillance Monthly Report, Defense Health Agency, Department of Defense, **25**, 20-24.
- Wood, R.A., 1985: A dangerous family: The thunderstorm and its offspring. *Weatherwise*, **38**, 131-135.
- Woodrum, C.C., and D. Franklin, 2012: Using a lightning safety toolkit for outdoor venues. Preprints, 4th International Lightning Meteorology Conference, April 4-5, Broomfield, Colorado, Vaisala, 6 pp.
- Yamamoto, K., Y. Naito, S. Yanagawa, N. Takahashi, and M. Matsui, 2015: Accident of automobile due to lightning. Preprints, 32<sup>nd</sup> International Conference on Lightning Protection, October 11-18, Shanghai, China, 5 pp.
- Yin, Q., H. Liu, X. Fan, Y. Zhang, Y. Zhuang, F. Wang, H. Du, X. Huang, S. Chen, and L. Chen, 2021: Lightning fatalities in China, 2009-2018. *Journal of Agricultural Meteorology*, **77**, 150-159.
- Zack, F., and A. Büttner, 2020: Lightning accident. Part 1: Physical basics and epidemiological aspects, energy transfer and injuries after surviving events [In German; abstract only in English]. *Rechtsmedizin*, 11 pp.
- Zafren, K., 2005: Lightning injuries: Prevention and on-site treatment in mountains and remote areas. Official Guidelines of the International Commission for Mountain Emergency Medicine and the Medical Commission of the International Mountaineering and Climbing Federation (ICAR and UIAA MEDCOM), *Recreation*, **65(3)**, 369-372.
- , B. Durrer, J.P. Herry, and H. Brugger, 2005: Lightning injuries: Prevention and on-site treatment in mountains and remote areas. Recommendation REC M 0018 of the Commission of Mountain Emergency Medicine, Official Guidelines of the

- International Commission for Mountain Emergency Medicine and the Medical Commission of the International Mountaineering and Climbing Federation (ICAR and UIAA MEDCOM), 10 pp.
- Zegel, F.H., 1967: Lightning deaths in the United States: A seven-year survey from 1959 to 1965. *Weatherwise*, **20**, 169-173, 179.
- Zeh, K., 1989: Lightning and safety in shallow coal mines. Proceedings, 23rd International Conference on Safety in Mines Research, Washington, DC, 691-701.
- , 1990: Lightning initiated hazards in shallow coal mines. Preprints, The First All Africa International Symposium on Lightning, Harare, Zimbabwe, April 30-May 4, 12 pp.
- Zhang, D., 2022: The legacy of the Chinese lightning and thunder gods. *Weatherwise*, **75**, 24-28.
- , and R.L. Holle, 2022: The epidemiology of lightning in Mainland China – A review of two datasets from the 1950s to 2018. Preprints, 36th International Conference on Lightning Protection, October 02-07, Cape Town, South Africa, 918-923.
- Zhang, W., Q. Meng, M. Ma, and Y. Zhang, 2010: Lightning casualties and damages in China from 1997 to 2009. Preprints, International Lightning Meteorology Conference, April 21-22, Orlando, Florida, Vaisala, 9 pp.
- , —, —, and —, 2010: Lightning casualties and damages in China from 1997 to 2009. *Natural Hazards*. doi: 10.1007/s11069-010-9628-0.
- Zhang, Y., W. Zhang, and Q. Meng, 2012: Lightning casualties and damages in China from 1997 to 2010. Preprints, International Conference on Lightning Protection, September 2-7, Vienna, Austria, 5 pp.
- , X. Fan, Q. Yin, and L. Chen, 2018: Analysis of a fatality case caused by “a bolt from the blue”. Preprints, 34<sup>th</sup> International Conference on Lightning Protection, September 2-7, Rzeszow, Poland, 5 pp.
- Zhahui, H., Y. Shaojie, C. Luwen, and H. Xiaogui, 2006: Characteristics of lightning hazards in Guangdong Province China. Preprints, 28<sup>th</sup> International Conference on Lightning Protection, September 18-22, Kanazawa, Japan, 1254-1248.
- Zimmermann, C., 1998: Lightning & turf pros: Dangerous for life, limb and irrigation systems. *Turf West*, July, B6-B10.
- , M.A. Cooper, and R. Holle, 2002: Lightning safety guidelines. *Annals of Emergency Medicine*, **39**, 660-665.