

Mid-Atlantic Lightning Mapping Array Deployment

Mason Quick
CISESS

Abstract

A Lightning Mapping Array (LMA) is a network of VHF antennas separated by 10s of km that detect the radio frequency impulses produced by lightning. These networks use a well-established time-of-arrival algorithms to solve for source locations, detect lightning with a high detection efficiency, and can map the lightning channel geometry in 3-dimensions. The DCLMA is a 9 station network that has been in operation since 2005. Recently a new network has been deployed in the vicinity of Wallops Flight Facility (WFF). This talk will describe the effort to combine the data from both networks to produce the Mid-Atlantic LMA (MALMA), and to create and distribute operational data products to regional NWS offices, WFF, and the public.