

Vaisala Capabilities in Hydrometeorology

Nicholas W.S. Demetriades and Ronald L. Holle
Vaisala, Inc.
Tucson, Arizona

Tucson is home to Vaisala's Thunderstorm Data and Thunderstorm Systems businesses. Vaisala Thunderstorm Data owns and operates the National Lightning Detection Network (NLDN). Vaisala Thunderstorm Data also operates the Canadian Lightning Detection Network (CLDN) on behalf of Environment Canada (EC). Vaisala Thunderstorm Systems develops and manufactures lightning detection sensors that are sold around the world.

Vaisala lightning applications and technology research occurs in collaboration with many users of lightning detection networks around the world, including the NLDN. In addition, Vaisala has capabilities in other instrumentation suites of interest to hydrometeorology. Among them are automatic weather stations, rain gages, and radars with doppler and dual-polarization capabilities. Integration of information from such detection systems provides a unique set of application opportunities among the divisions that develop this instrumentation, and more emphasis will be placed on such activities in the future.

FORECASTING AND QUANTITATIVE PRECIPITATION ESTIMATION