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Lightning observation using Broadband Observation network for Lightning and Thunderstorm in the Kanto Plain

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We have been designing and developing Broadband Observation network for Lightning and Thunderstorm (BOLT). The BOLT consists of four or more LF sensors which detect LF radiation form lightning discharges and locate LF emission sources in 3D using either time of arrival or digital interferometry. We have lightning observation with BOLT in the Kanto Plain from 2015. In this presentation, we overview the lightning observation, including location error estimation of BOLT for LF emission associated with lighting, and update the BOLT lightning location technique.

Keywords: lightning discharges, thunderstroms, remote sensing