

A lightning observation network in Kansai using a LF broadband digital interferometer

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We have been designing and developing a LF broadband digital interferometer (DITF) that detect electromagnetic (EM) waves associated with cloud-to-ground and intracloud discharges, and locate the EM wave sources. We have been building up a lightning observation network consisting of a LF DITF around Osaka. The observation network covers the areas from Kobe to Nara. In this presentation we compare the results with radar data and discuss the initiation of lightning discharges.

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