Recent results from the Japanese total lightning network

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In recent years, the relationship between the lightning activity and extreme weather phenomenon has gotten a lot of attention. In this paper, we will demonstrate the recent results from Japanese total lightning detection network (JTLN) in relation with extreme weather events in Japan. We will show that the flash rate of total lightning tends to increase about 20 minutes before the onset of the extreme weather event.

Keywords: lightning, wind gust, total lightning, extreme weather