

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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AEM002-P02

Room:Convention Hall

Time:May 27 10:30-13:00

A warm season climatology of convective precipitation over the Korean Peninsula

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The goal of this study is to investigate the variations in the spatial and temporal patterns of lightning activity over the Korean Peninsula in relation to precipitation during the summer monsoon months during 10 years (2000-2009) and to develop a better understanding of these two meteorological phenomena. In this study, we present the results of an analysis of lightning activity and associated monsoon rainfall over Korea. We obtained precipitation data from 98 synoptic stations and the lightning data were collected from a lightning detection network installed by the Korean Meteorological Administration (KMA).

This study will be of use in understanding the role of convective rain in the extreme precipitation over Korea, and this could eventually enhance skills for understanding the relationship between climate change and extreme precipitation.

Acknowledgement: This research is supported by a project, NIMR-2011-B-2.

Keywords: extreme precipitation, Korean Peninsula, lightning activity, climate change