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Long-term variations of rainfall and rainfall characteristics in Asian monsoon region

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As for the long-term Asian monsoon variations, monsoon rainfall variations by utilizing All Indian Monsoon Rainfall for over 130 years have been analyzed. On the other hand, the rainfall data during and prior to the World War-II have been very limited and they have not been well analyzed in other Asian monsoon countries. Under the International Asian monsoon project, MAHASRI (Monsoon Asian Hydro-Atmosphere Scientific Research and prediction Initiative) in GEWEX/WCRP, we have tried to reveal the long-term changes in precipitation, rainfall characteristics, and water cycle over land areas in Asian monsoon region by installing own observation network, and/or by rainfall data collection including data rescue for the old document data. In this presentation long-term variations of rainfall and rainfall characteristics in Asian monsoon region supported by the Data Integration and Analysis System (DIAS), funded JAMSTEC by the National Key Technology, the Ministry of Education, Culture, Sports, Science and Technology, Japan, by the Global Environment Research Fund (B-061 and B-092) of the Ministry of the Environment, Japan funded Tokyo Metropolitan University, and by the various Grant-in-Aid for Scientific Research, Japan Society for the Promotion of Science for the authors will be introduced.

Keywords: Asian monsoon, Precipitation, Rainfall characteristics, Long-term variations