

Category and Session Number: OA11

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Preferred Mode of Presentation: Oral

## Asian Monsoon Rainfall Variability from TRMM Satellite

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TRMM TMI and PR rainfall data with VIRS data with more than 6 years are compared with the GPCP data over the Asian monsoon area. The TRMM data show very fine rainfall distribution and clear seasonal march of rainfall over the region. For example, it is usually mentioned that the Indian monsoon starts in early June from the southern tip of Indian Peninsula. However, the TRMM data show different evolution over India. In April we have a coastal rainfall belt along the eastern shore and along the foothill of the Himalayas. Both rain belts are confluent together over Bangladesh. Both rain belts develop further in May and June to bring the monsoon onset in India. Based on the TRMM rainfall data we construct the monsoon onset map over the region.

We found that there are qualitative agreements among the rainfall products. However, quantitatively, there are substantial differences in magnitude of the rainfall. To understand the difference may contribute to improve the rainfall estimate algorithms.

Keywords: Asian monsoon, TRMM