

WCRP-JNU Training School on Monsoon Variability in Changing Climate

A relationship between the Ural blocking and Asian monsoon

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Atmospheric blocking is a large-scale, mid-latitude atmospheric phenomenon often associated with persistent quasi-stationary, high-pressure systems.

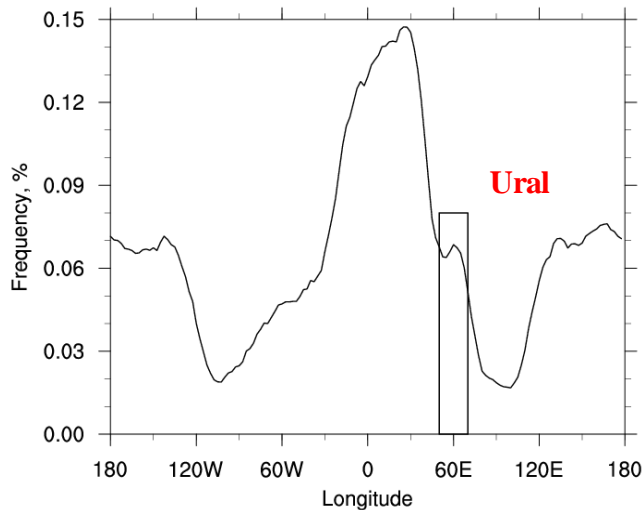


Figure 1. The blocking frequency as a function of longitude for 1979-2012. The black box represents the Ural area (ERA-Interim data).

Case 1. Roles of European blocking and tropical-extratropical interaction in the 2010 Pakistan flooding. *Hong et al. 2011.*

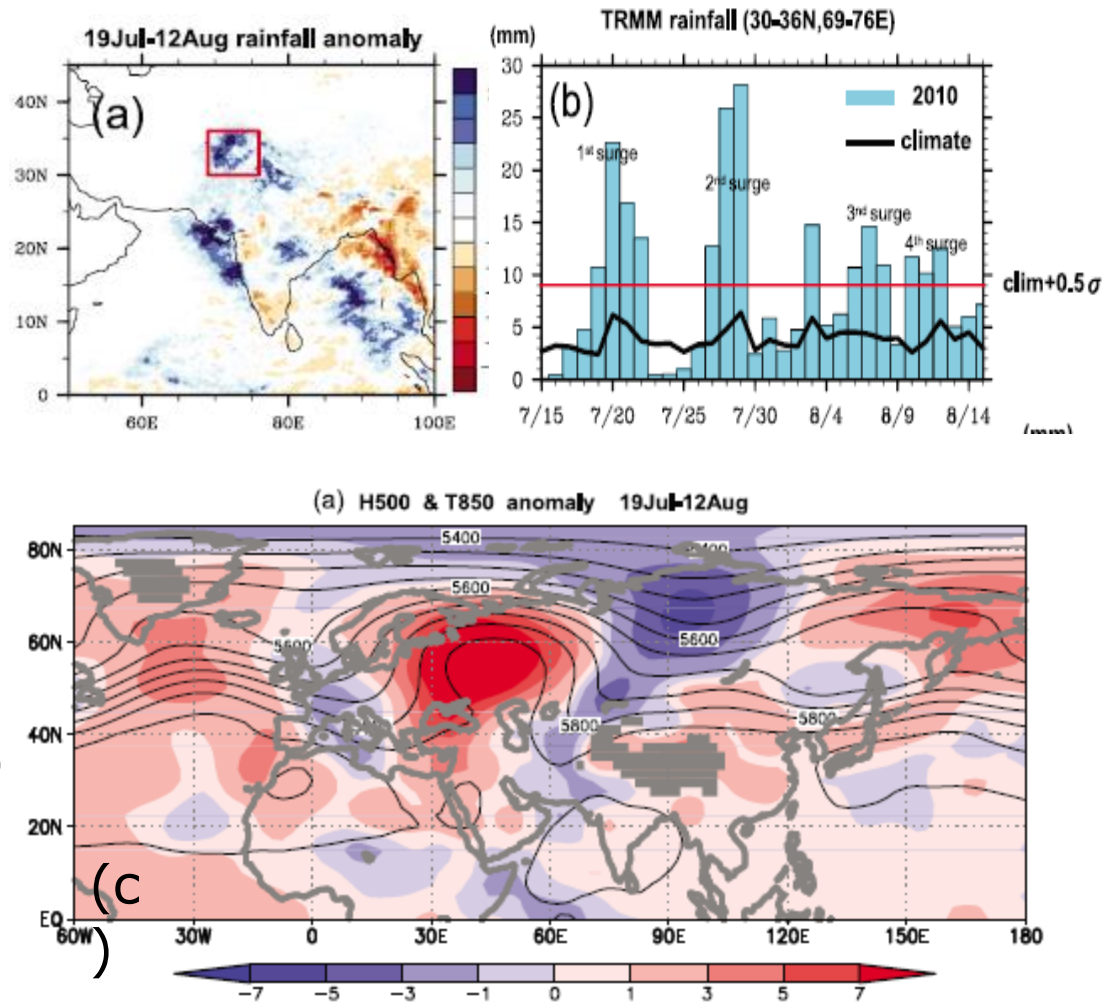


Figure 2. TRMM-TMI rainfall anomaly during 19 July-12 August 2010 (a). Time series (red box in Fig. 2 a) of daily rainfall (b). Anomalies of 500 hPa (interval 50 m) and 850 hPa temperature anomaly (shading, c).