

Supplementary Movies captions :

Supplementary Movie 1. The snapshot of atmospheric circulation (ERA5) and precipitation (CPC) over South Asia and the surrounding areas from August 10 to 26, 2022, every three hours.

Supplementary Movie 2. Isosurface of specific humidity (0.0123 KgKg^{-1}) colored by zonal winds. The strongest colors represent magnitudes greater than $\pm 10 \text{ m/sec}$. Warm (cold) colors represent eastward (westward) flow. The animation runs from July 01 to August 31, 2022. The convergence zone generally represents the position of the monsoon trough. The data used in this animation is obtained from the ERA5 reanalysis. The animation shows a snapshot every three hours.