atmosphere

Supplementary Materials: Impact of Cyclonic Storm "Sitrang" over the Bay of Bengal on Heavy Rain and Snow in Eastern Tibet

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Table S1. Hourly precipitation at multiple stations on October 25th exceeded the historical same-period (historical October) extreme values (Beijing Time).

Sta	Pre(Unit:mm)	Date
Milin	7.1	10-25 08T
Chayu	6.2	10-25 10T
Bomi	5	10-25 13T
Cuona	4.9	10-25 06T
Linzhi	4.5	10-25 09T

Table S2. 24-hour precipitation at multiple stations on October 25th exceeded historical same-period (historical October) extreme values (08T).

Sta	Pre(Unit:mm)	Date
Cuona	55	10-23 08T to 10-24 08T
Chayu	40.5	10-24 08T to 10-25 08T
Milin	37.8	10-24 08T to 10-25 08T
Bomi	34.2	10-24 08T to 10-25 08T
Linzhi	21.8	10-24 08T to 10-25 08T
Longzi	19.5	10-23 08T to 10-24 08T

Table S3. 24-hour precipitation at multiple stations on October 25th exceeded historical same-period (historical October) extreme values (20T).

Sta	Pre(Unit:mm)	Date
Chayu	66	10-24 20T to 10-25 20T
Cuona	55.4	10-24 20T to 10-25 20T
Bomi	49.9	10-24 20T to 10-25 20T
Longzi	30	10-24 20T to 10-25 20T
Linzhi	27.2	10-24 20T to 10-25 20T
Jiacha	14.3	10-24 20T to 10-25 20T
Zedang	14.2	10-24 20T to 10-25 20T
Langkazi	10.6	10-23 20T to 10-24 20T

Table S4. Snow depth (snow height) during the event period.

Sta	Snow Depth(Unit:cm)	Date
Cuona	32	10-25 20T
Longzi	3	10-25 20T
Cuona	34	10-27 08T
Longzi	6	10-27 08T

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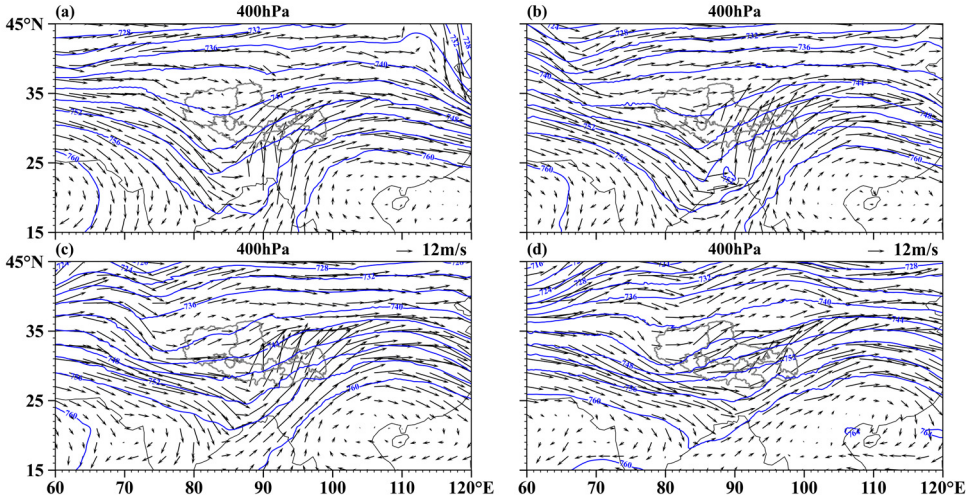


Figure S1. The wind field (wind vector, unit: m·s^{-1}) and geopotential height (contours, unit: dagpm) at 400 hPa at (a) 08:00 on 24 October, (b) 20:00 on 24 October, (c) 08:00 on 25 October, (d) 20:00 on 25 October.

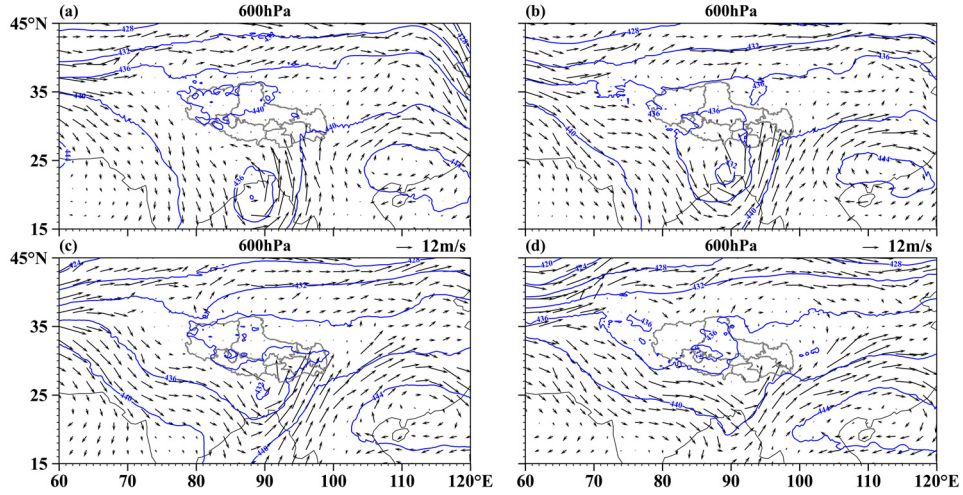


Figure S2. The wind field (wind vector, unit: m·s^{-1}) and geopotential height (contours, unit: dagpm) at 600 hPa at (a) 08:00 on 24 October, (b) 20:00 on 24 October, (c) 08:00 on 25 October, (d) 20:00 on 25 October.

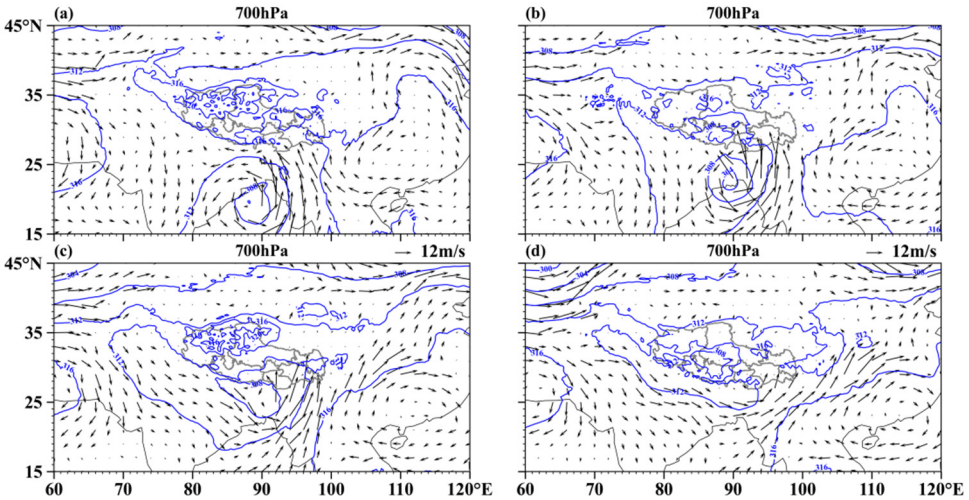


Figure S3. The wind field (wind vector, unit: m·s-1) and geopotential height (contours, unit: dagpm) at 700 hPa at (a) 08:00 on 24 October, (b) 20:00 on 24 October, (c) 08:00 on 25 October, (d) 20:00 on 25 October.

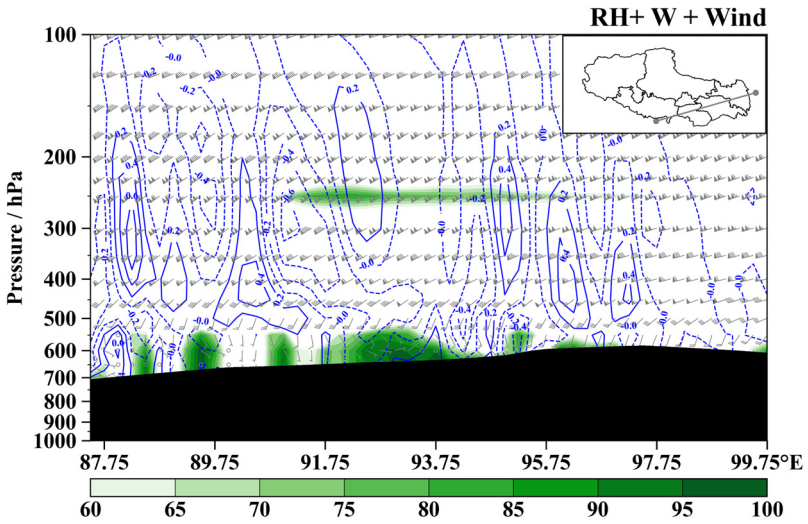


Figure S4. Vertical velocities (contours, unit: hPa·s^{-1}) and relative humidity (colour, unit: %) at 08:00 on 22 October. Oblique vertical profile along (27.5°N, 87.5°E to 31°N, 100°E). The blue solid lines represent positive vertical velocities, indicating downward motion, while the blue dashed lines represent negative vertical velocities, indicating upward motion.