

# The 50-day forecast of low frequency temperature in the lower reaches of the

## Yangtze River valley October to November 2020

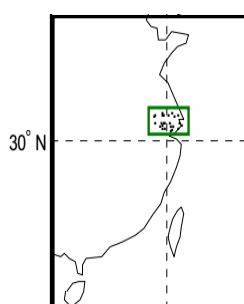
### (Scientific Research Achievements for Reference Only)

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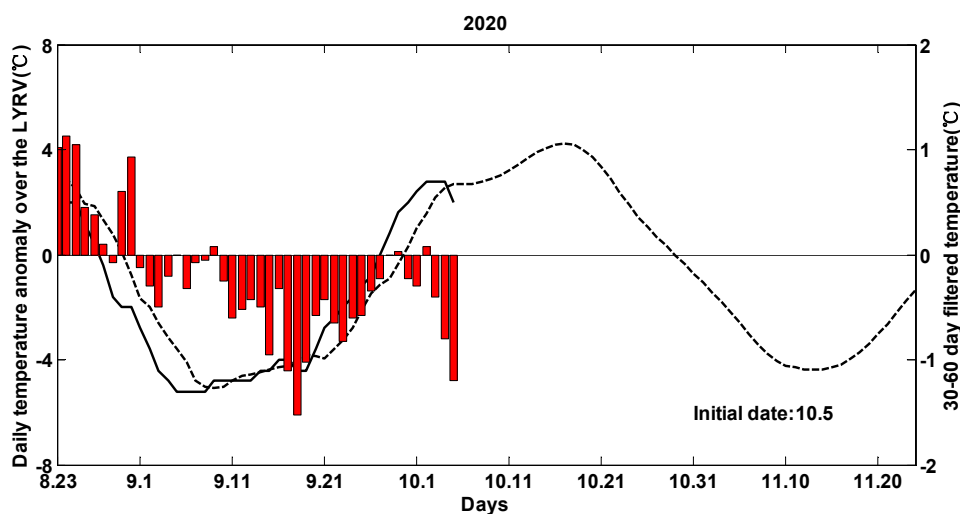
Weather and Climate Laboratory

October 10, 2020

Forecast of 30- to 60-day Low Frequency Temperature Component for the period from October to November, 2020 in the Lower Reaches of the Yangtze River Valley (LYRV)



(a)



(b)

Figure 1. (b) Changes (solid line) and Forecast (dotted line) of 30- to 60-day Low-Frequency Temperature Component in 25 Stations(a) in the Lower Reaches of the Yangtze River Valley (LYRV), among them, the column diagram is the day-by-day temperature departure; unit: °C; initial date: October 5, 2020.

It is predicted that the 30- to 60-day oscillation in the coming 50 days (October 6, 2020 to November 24, 2020) tends to be stronger. From October 6 to 28, 2020 and from October 29 to November 24, 2020, it will be in the positive and negative phases of the low frequency temperature component, respectively, both of which are not conducive to severe cold air activity because the temperature in the LYRV will continue to be high and low with a few

changes in frequency component. The temperature in the LYRV will be normally low in early November. [Based on the MLR Model Forecast of 30-60 d Low Frequency Temperature Component (at the 850hPa in East Asian region with the first three principal components of low-frequency temperature of PC1-PC3), initial date: October 5, 2020; solid line: forecast of 30- to 60-day low frequency temperature component in the Lower Reaches of the Yangtze River Valley (LYRV); dotted line: fitting and forecast].