The 50-day forecast of low frequency rainfall in the lower reaches of the Yangtze River valley from November 2014 to January 2015

(Scientific research, for reference only)

Weather and Climate Laboratory of Jiangsu Meteorological Science Institute November 30, 2014

The 50-day forecast of 20－30-day low-frequency rainfalls the lower reaches of the Yangtze River valley

Fig. 1 shows the 1–50-days forecast (dashed line) and observation during the period from October 10, 2014 to November 22, 2014 (solid line) of the 20–30-day low-frequency rainfall of the lower reaches of the Yangtze River valley (LYRV) with initial date November 22, 2014 by using the ECAR model (Yang, 2014), in which ECAR is established with first seven low-frequency principal components (PC1-PC7) of the global meridional wind anomaly of 850 hPa as the factors , and based on the data from October 4, 2014 to November 22, 2014. It is predicted that the low frequency rainfalls over LYRV on the time scale of 20–30-days are the positive phases associated with the rainy (or snow) periods on December 18-31, 2014.

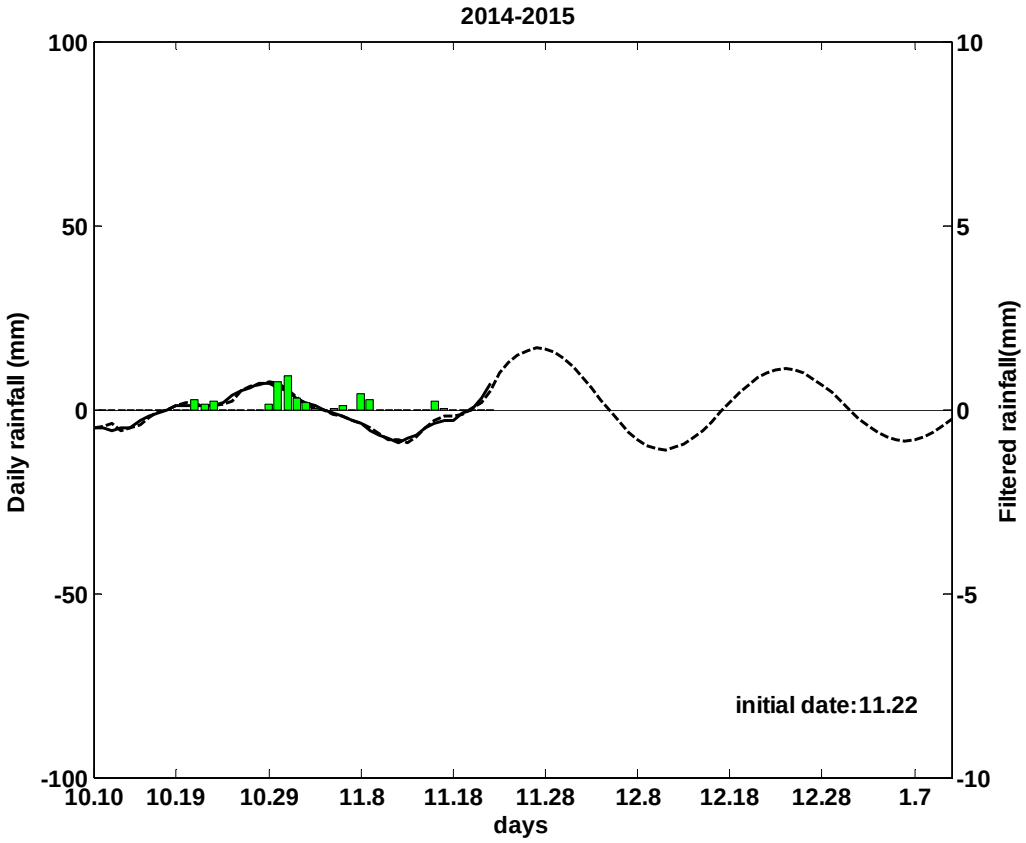

Fig. 1 Prediction (dashed line) and observation (solid line) of the 20—30-day rainfall over LYRV for the period from 1 into 50 days in the winter of 2014/2015 for ECAR model based on the principal components of the global low frequency the meridional wind anomaly of 850 hPa, and the bar represents the time series of the daily precipitation over LYRV(unit: mm) , initial date: November 22, 2014.

References

Yang Qiuming. Extended complex autoregressive model of low-frequency rainfalls over the lower reaches of Yangtze river valley for extended range forecast in 2013. *Acta Phys. Sin*, 2014,63(19),199202,doi：10.7498/aps.63.199202. (in Chinese).

http://wulixb.iphy.ac.cn/CN/abstract/abstract61022.shtml

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