



## Supplemental Material

### **Influence of the Kuroshio Interannual Variability on the Summertime Precipitation over the East China Sea and Adjacent Area**

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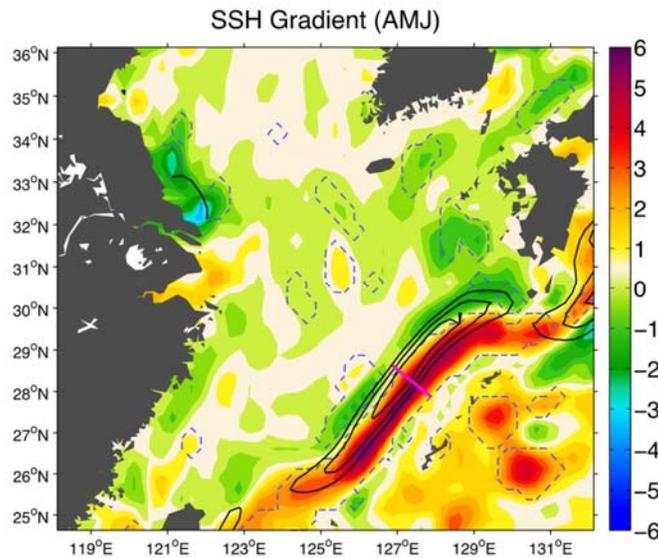
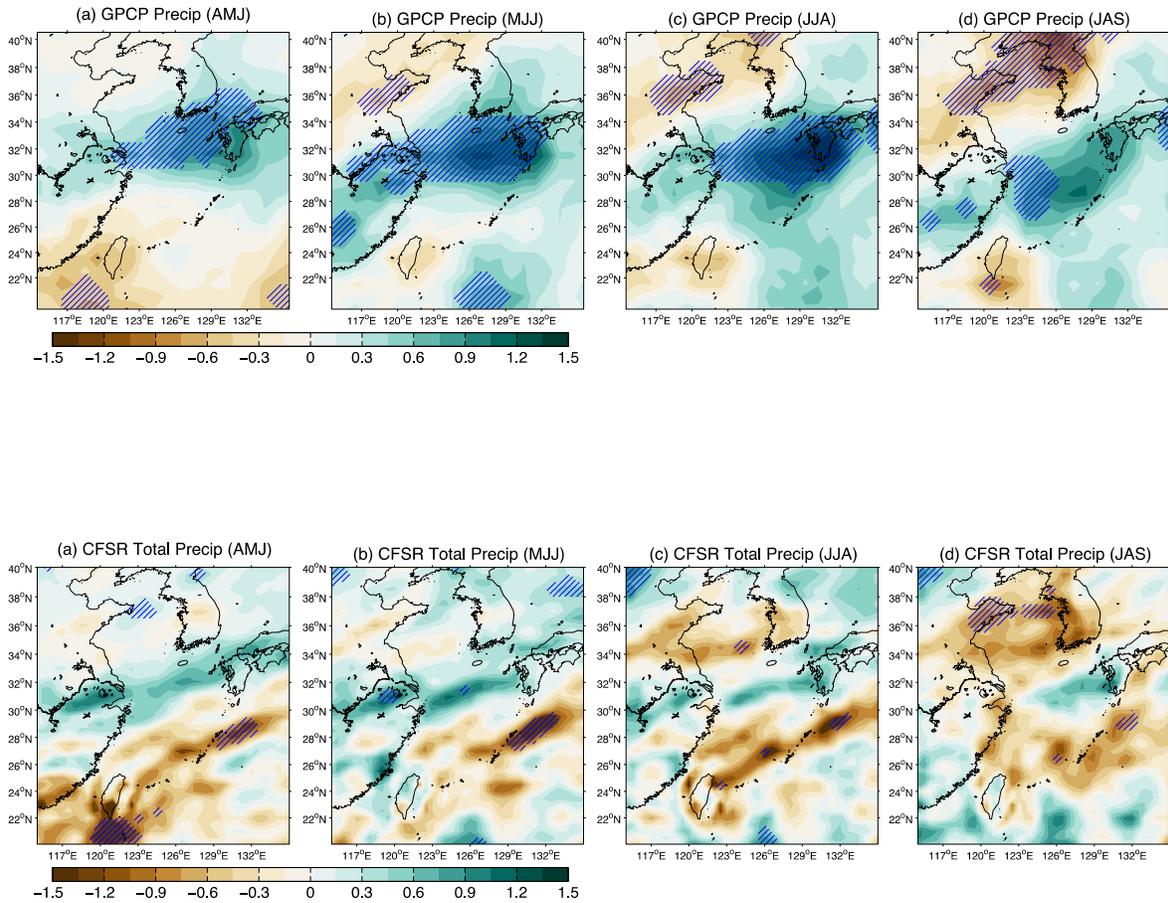


Figure S3: Simultaneous regression of the AMJ-mean SSH-gradient anomalies ( $\text{cm } 100\text{km}^{-1}$ ) onto the SSI, along with its climatology of 35, 45, 55 $\text{cm } 100\text{km}^{-1}$  (black contour) to indicate the main axis of the Kuroshio. Blue contour denotes regressions significant at the 95% confidence level.

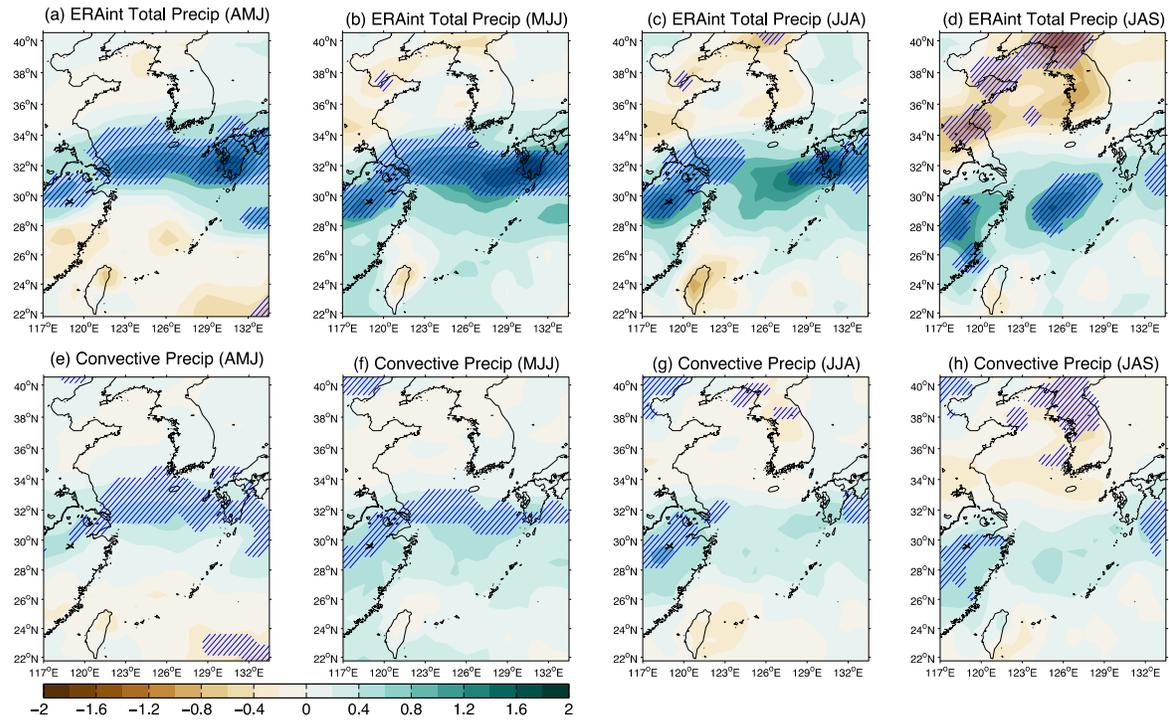
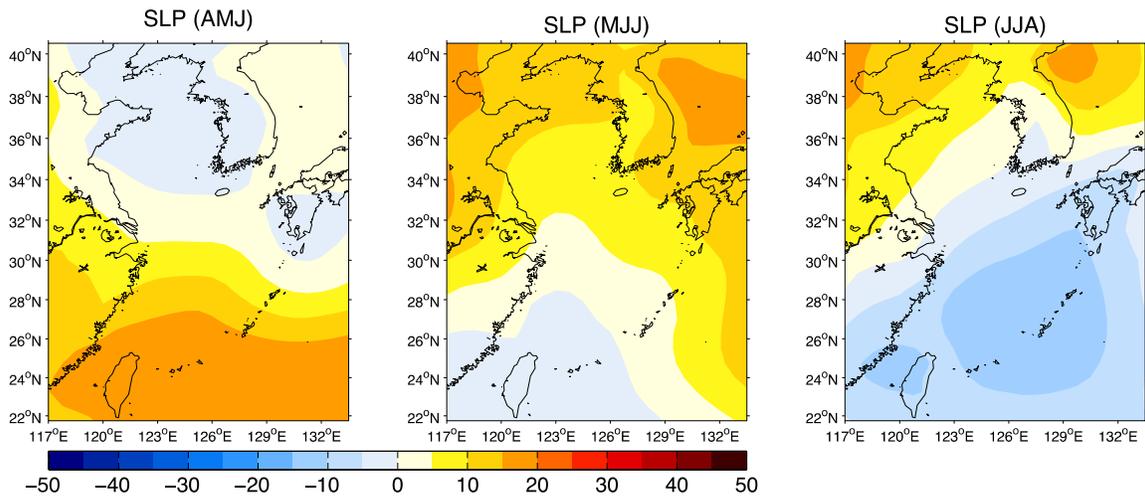


Figure S4: As in Fig. 8, but for 2002-2015 when the SST resolution is  $0.5^\circ$  or higher. Note that the color bar interval is double of that in Fig. 8.



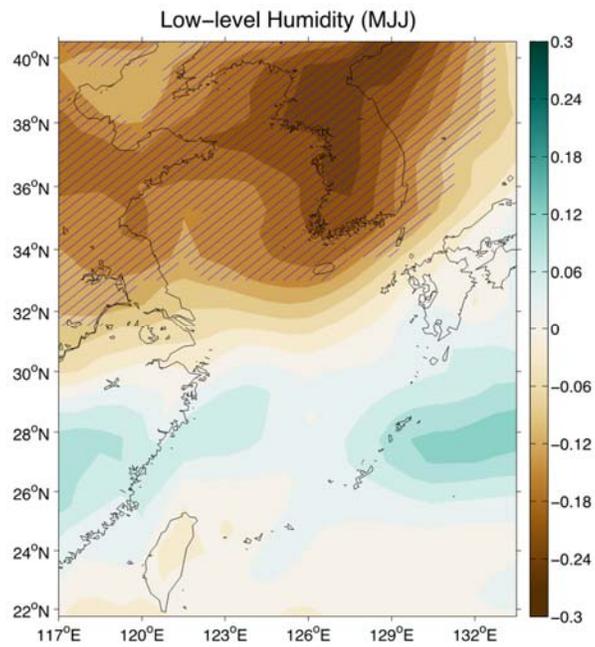


Figure S6: As in Fig. 12, but for the regression of the MJJ mass-weighted vertical-mean humidity over 1000-850 hPa ( $\text{g kg}^{-1}$ ).