Supplemental Materials

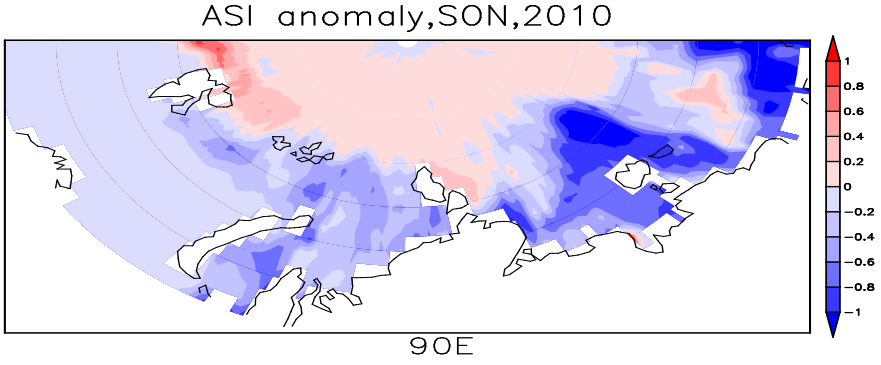


Figure S1. Anomalies of pre-autumn ASI in 2010

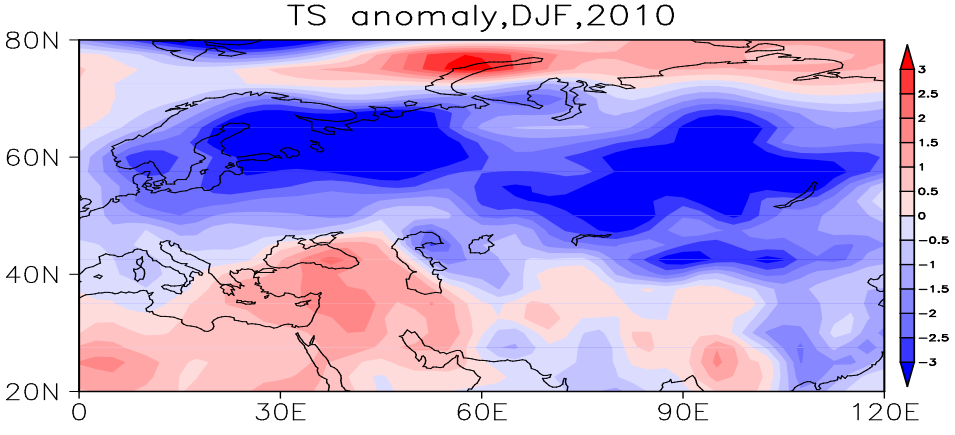


Figure S2. Anomalies of winter TS in 2010

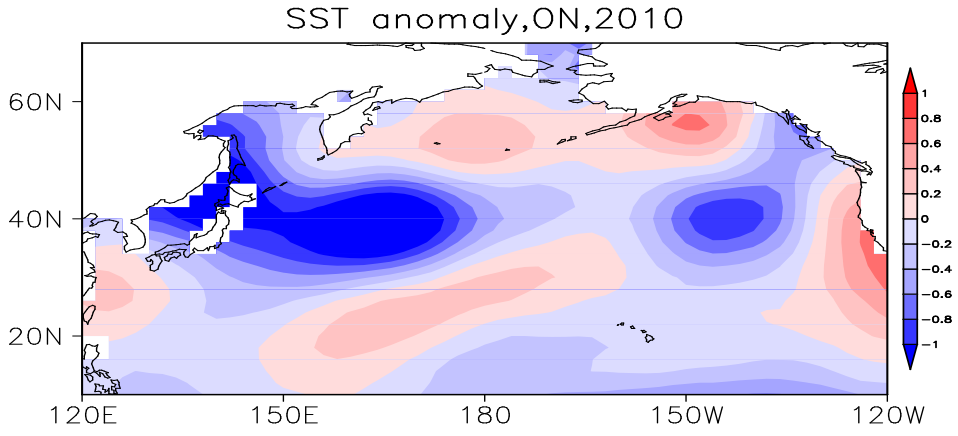


Figure S3. Anomalies of ON SST in 2010

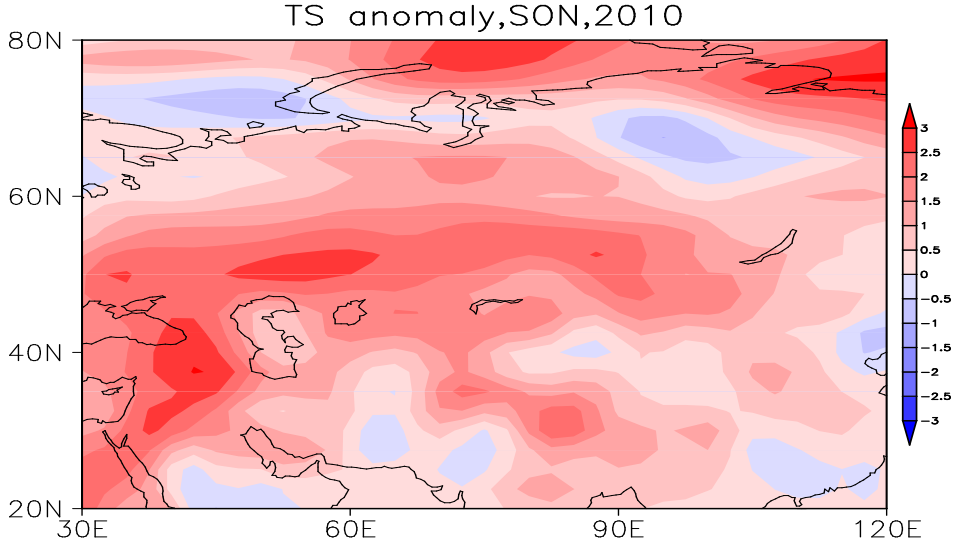


Figure S4. Anomalies of pre-autumn TS in 2010

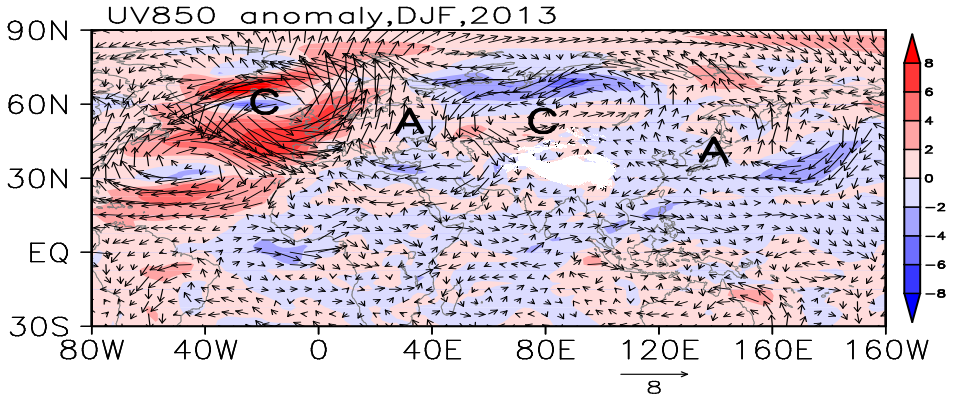
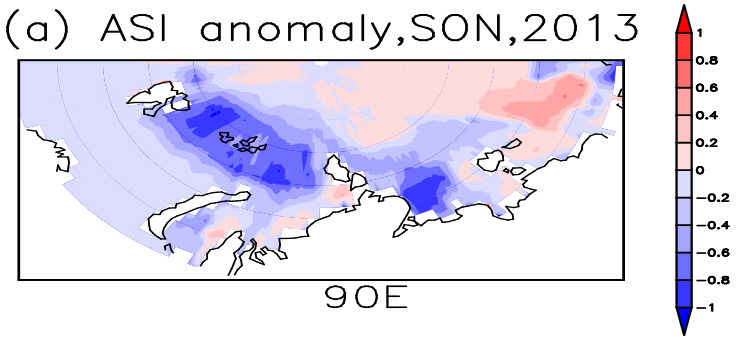
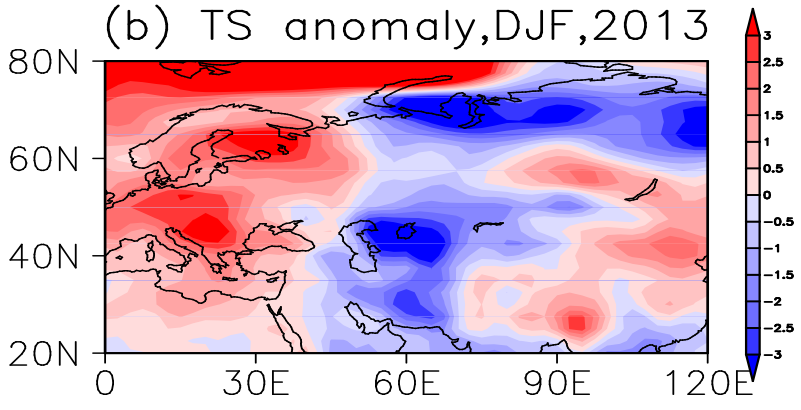


Figure S5. UV850 (arrow) and speed (shade) anomalies in 2013. A and C represent anti-cyclone and cyclone, respectively.





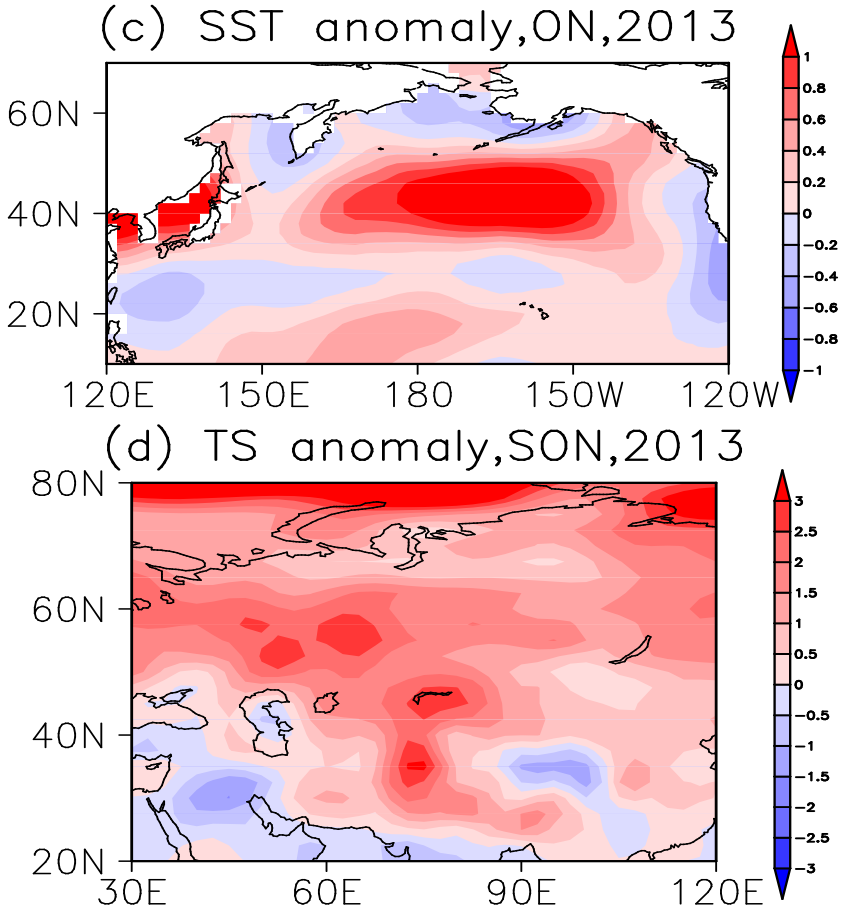


Figure S6. Anomalies of external forcings in 2013. (a) ASI in pre-autumn, (b) TS in winter, (c) SST in Oct and Nov, and (d) TS in pre-autumn.

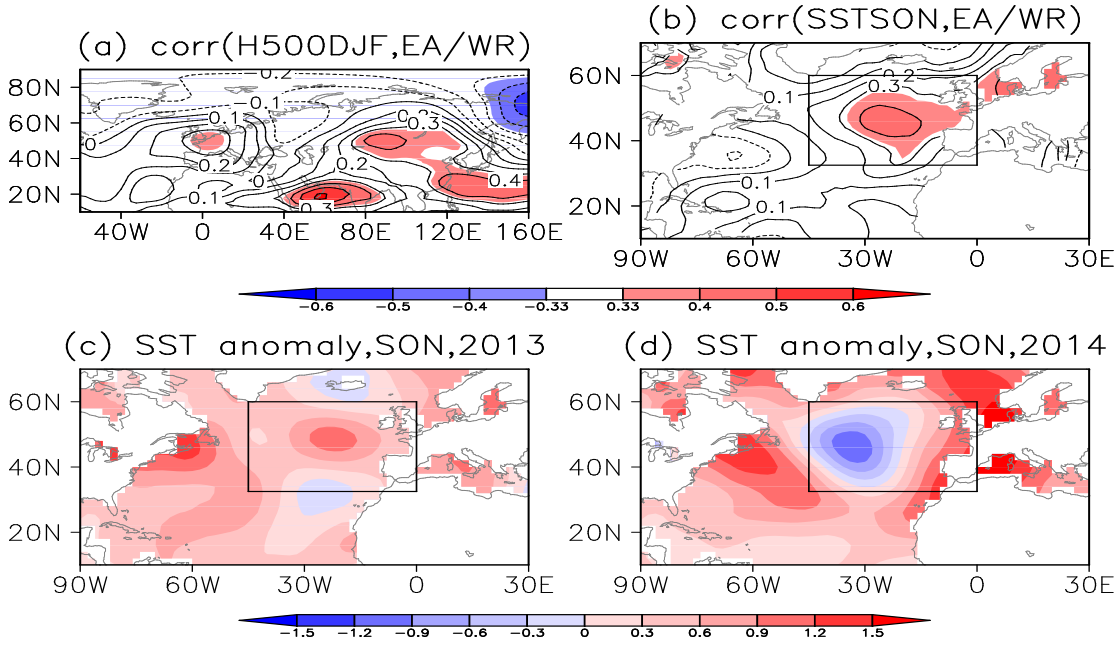


Figure S7. Correlation coefficients between EA/WR index and H500 (a) / Atlantic SST in pre-autumn (b). Pre-autumn SST anomaly during SON in 2013 (c) and 2014 (d)