



Supplement of

Reconstructing climate trends adds skills to seasonal reference crop evapotranspiration forecasting

Qichun Yang et al.

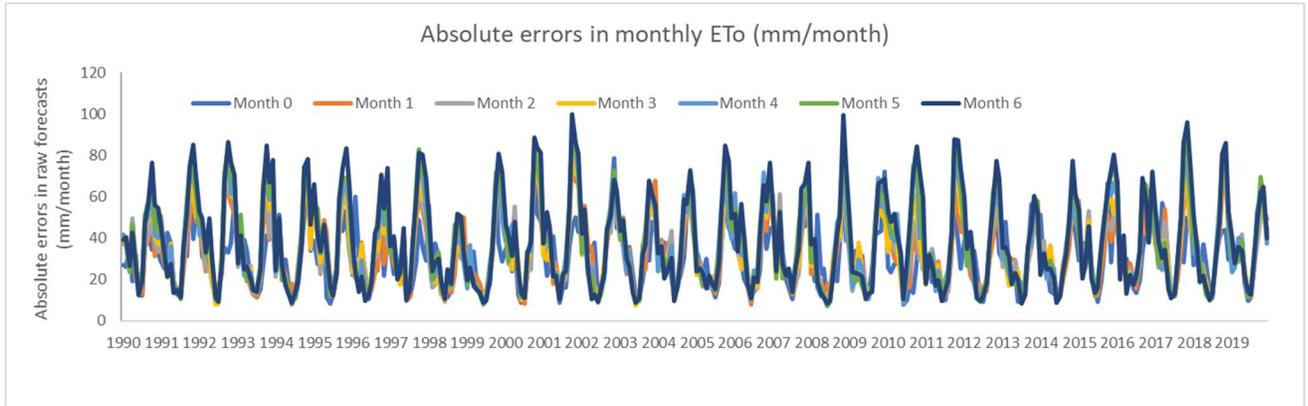
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Figure S1. Absolute errors in raw ECMWF ETo forecasts.

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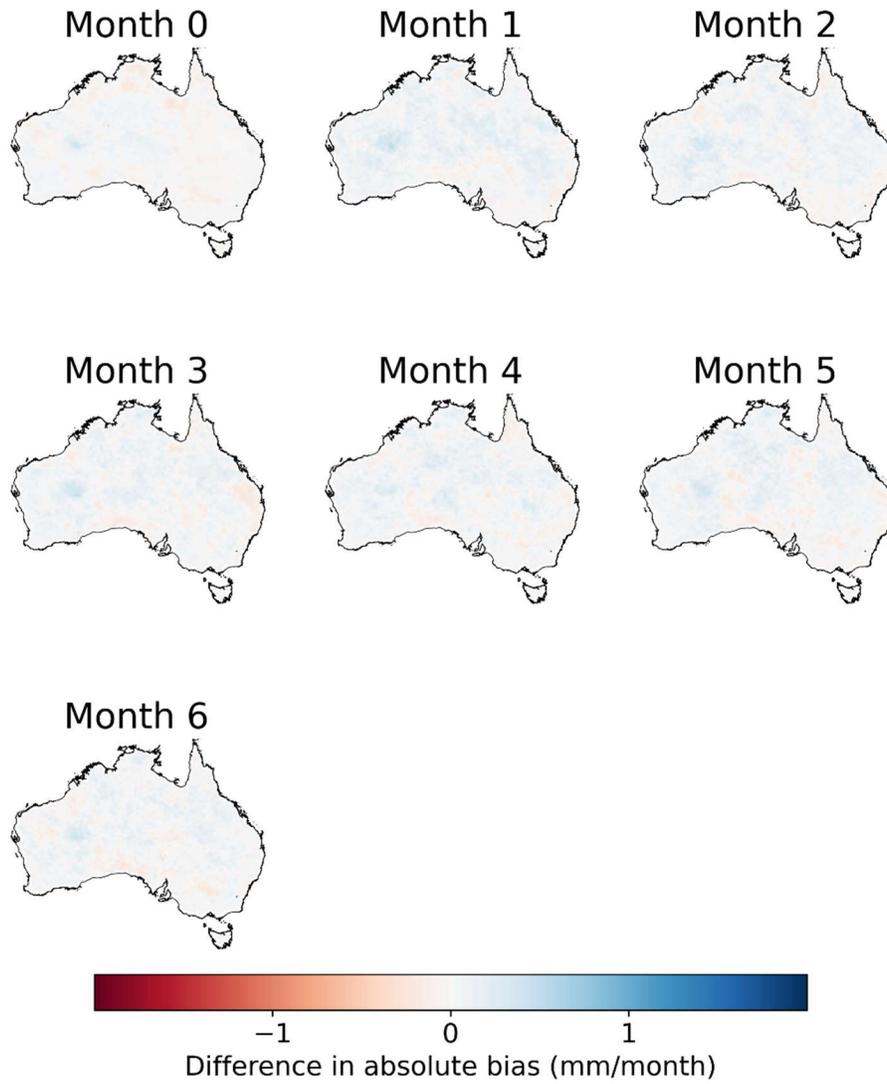
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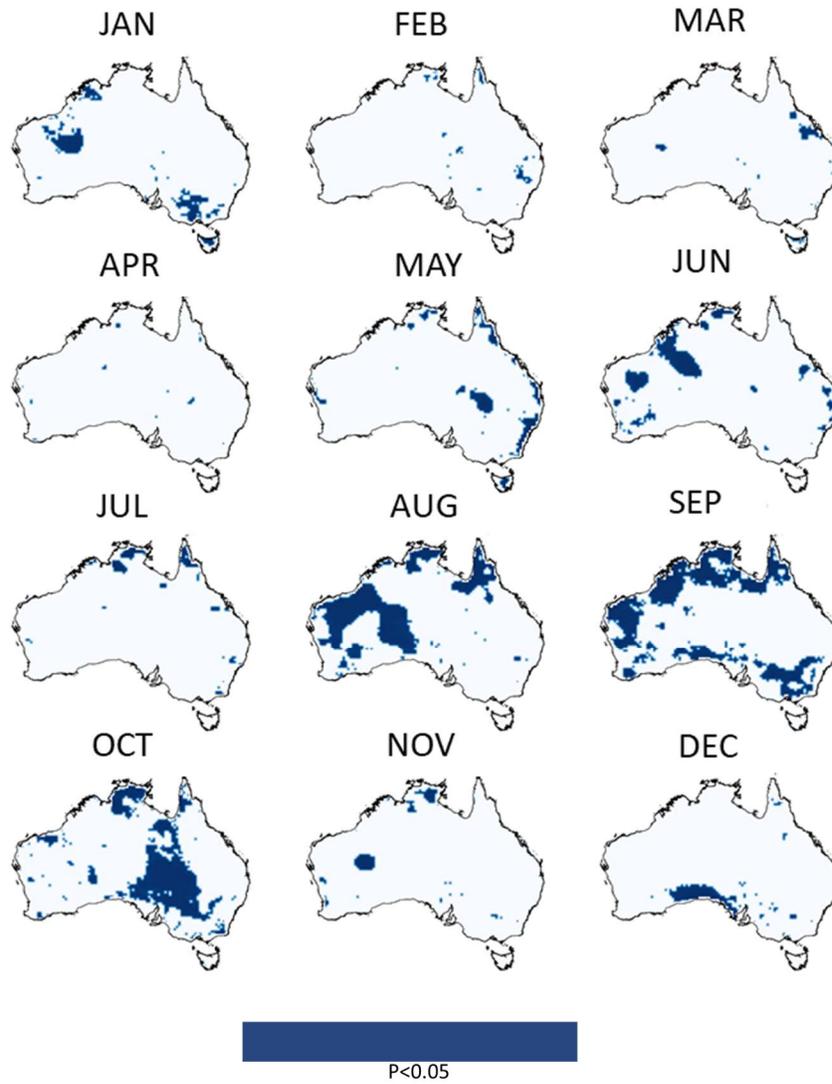
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Figure S2. Differences in absolute bias between BJP-ti and BJP calibrated forecasts.



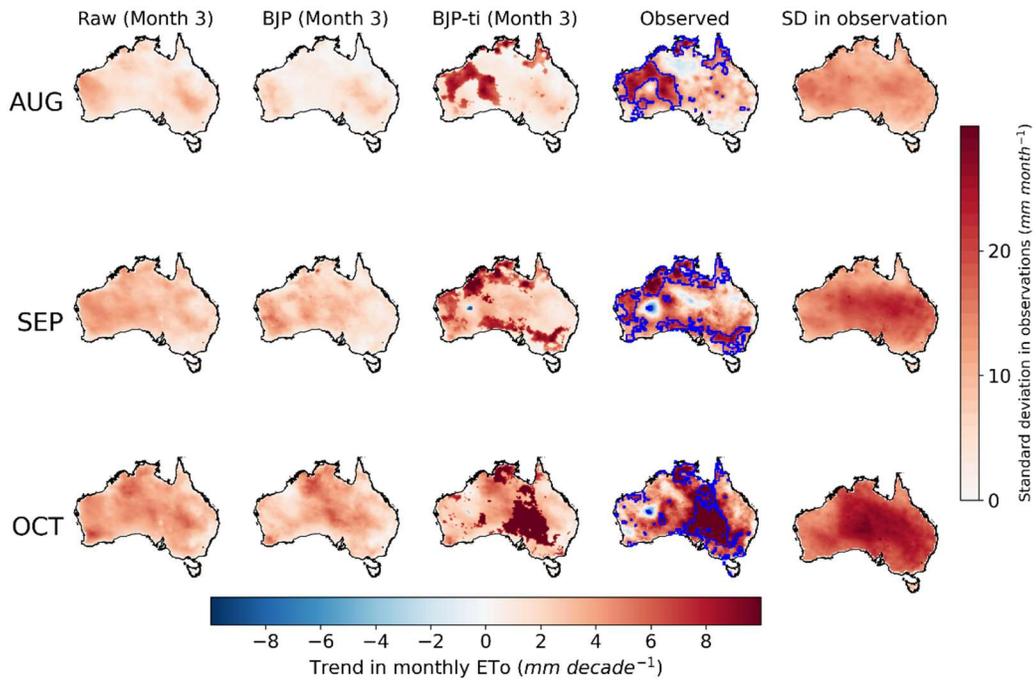
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Figure S3. Significance of trends in transformed ET_0 observations by month. Dark blue shows regions with statistically significant trends (at the 95% confidence interval).



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19 Figure S4. Trends in raw forecasts, BJP calibrated forecasts, BJP-ti calibrated forecasts for
 20 Month 3, and observed ETo for three selected months. Blue polygons show regions where
 21 observed trends are statistically significant. SD refers to standard deviation.

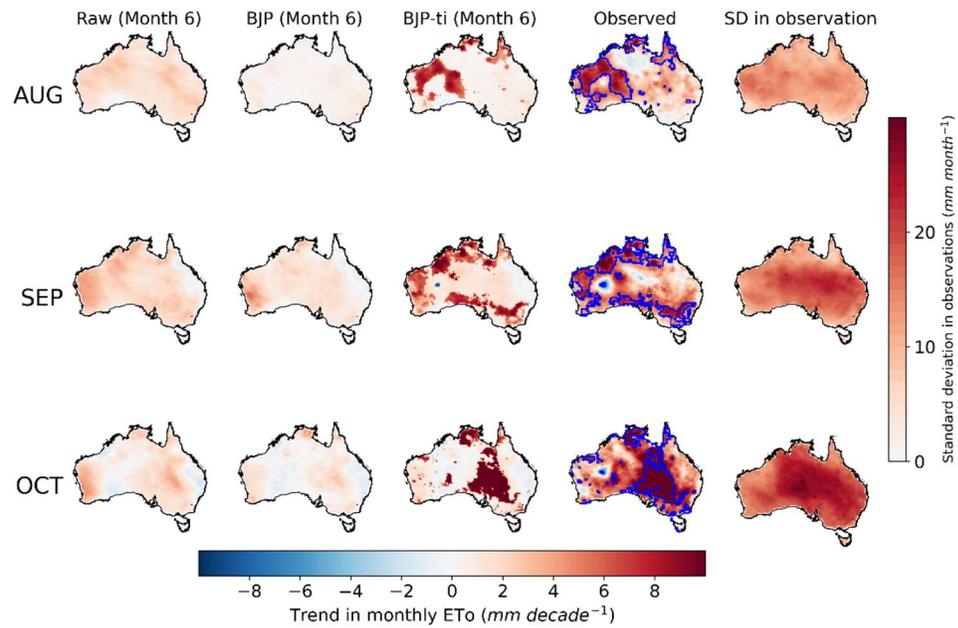
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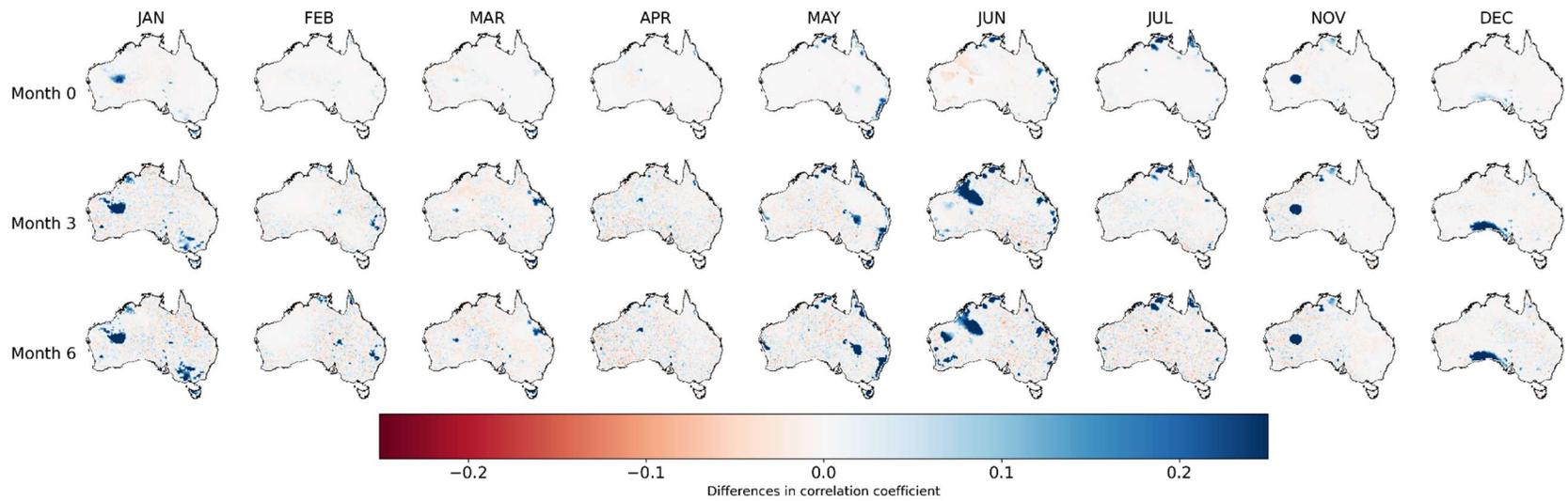
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Figure S5. Trends in raw forecasts, BJP calibrated forecasts, BJP-ti calibrated forecasts for Month 6, and observed ET_0 for three selected months. Blue polygons show regions where observed trends are statistically significant. SD refers to standard deviation.



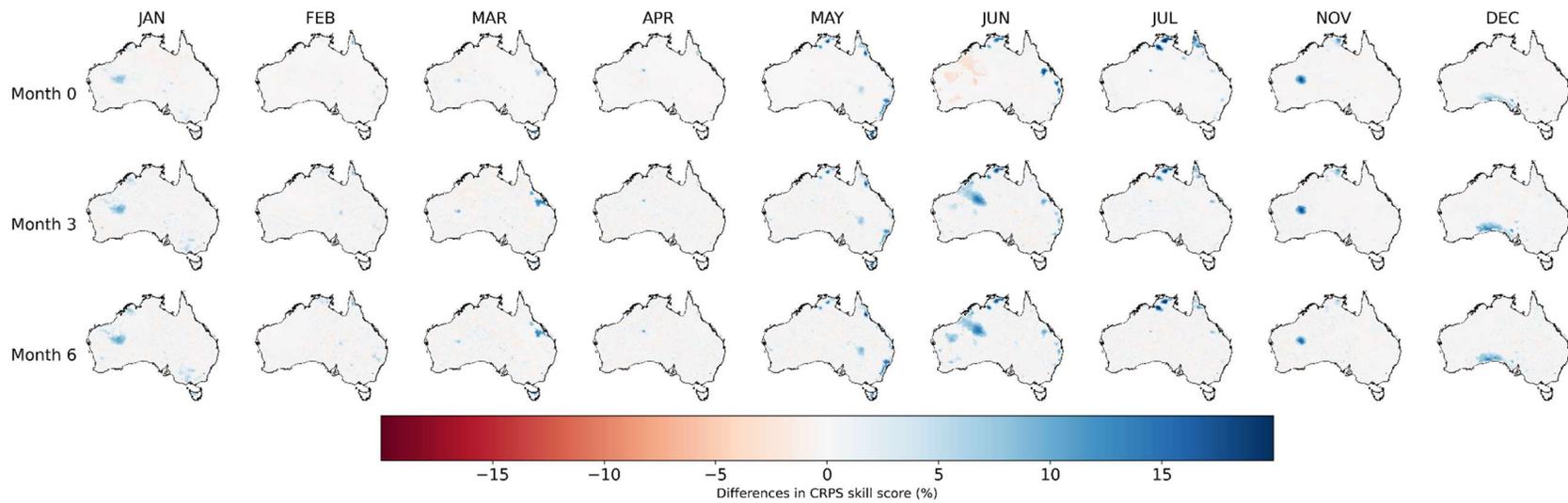
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Figure S6. Differences in correlation coefficient between BJP-ti calibrated forecasts and observations with that between BJP calibrated forecasts and observations for nine selected months and three lead times (Months 0, 3, and 6).

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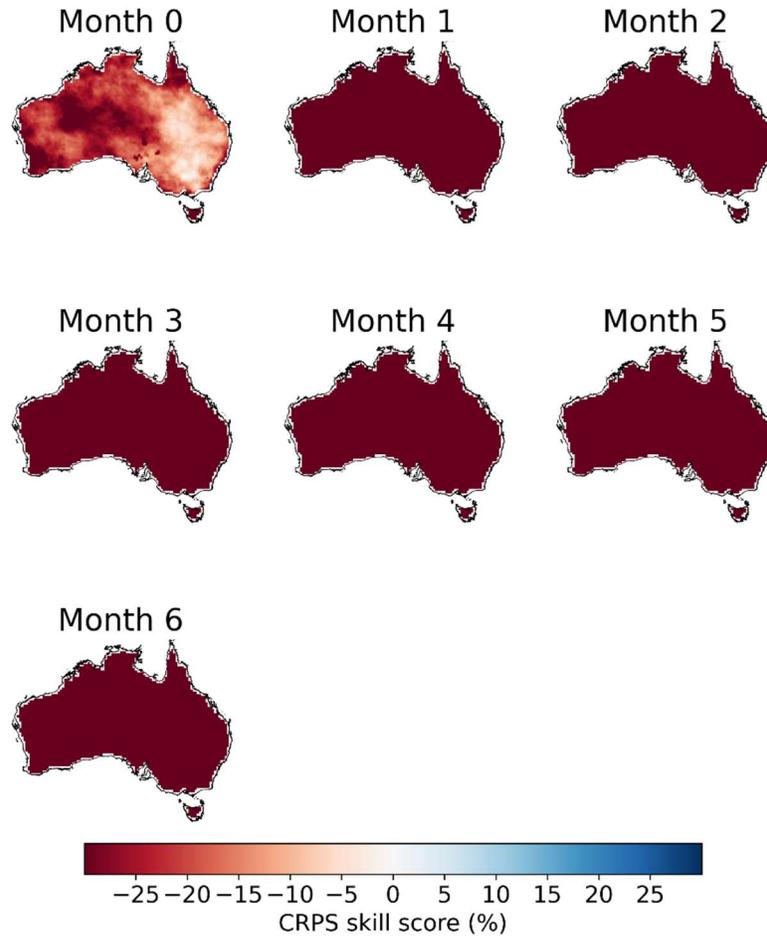
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Figure S7. Differences in CRPS skill score between BJP-ti calibrated forecasts and observations with that between BJP calibrated forecasts and observations for nine selected months and three lead times (Months 0, 3, and 6).

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Figure S8. CRPS skill score of bias-corrected ETo forecasts.

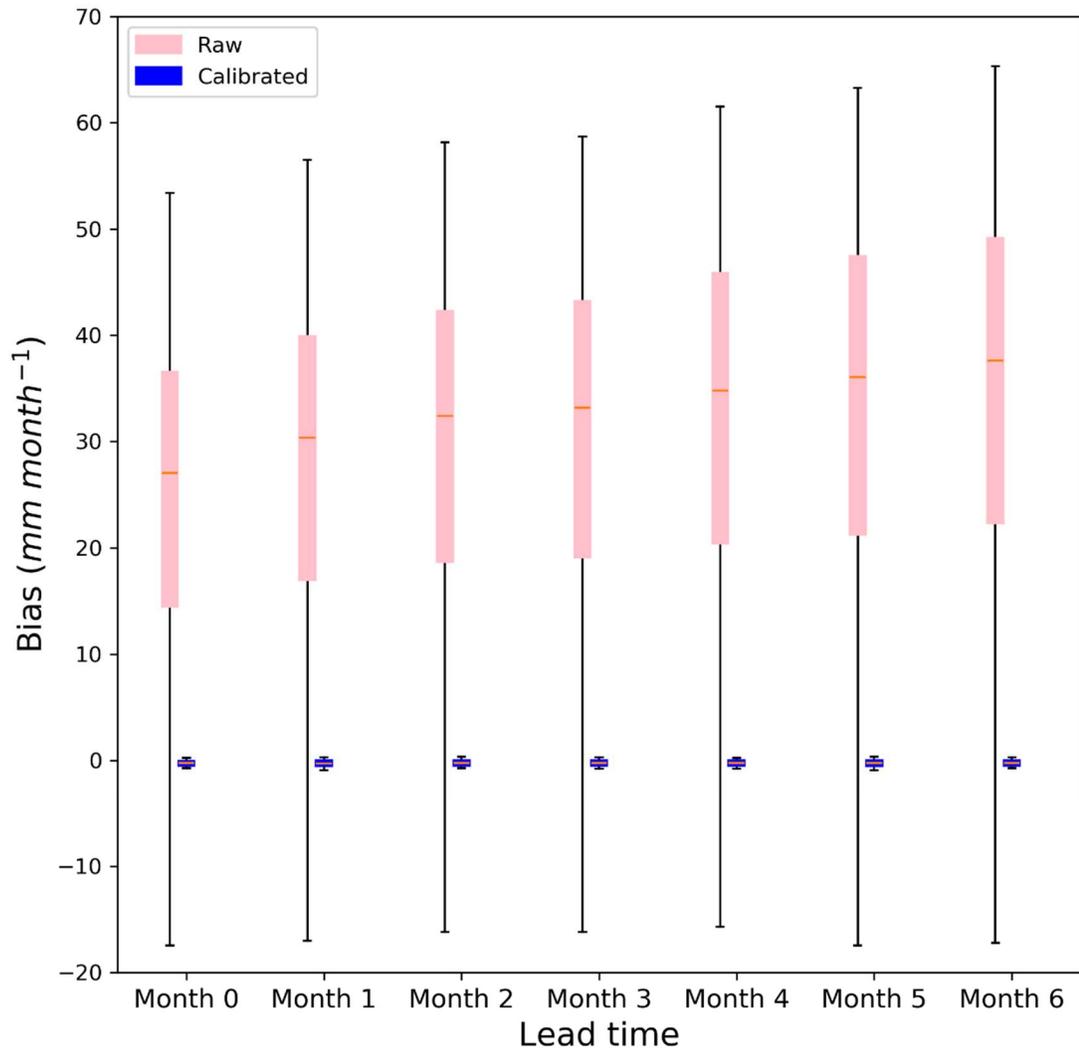
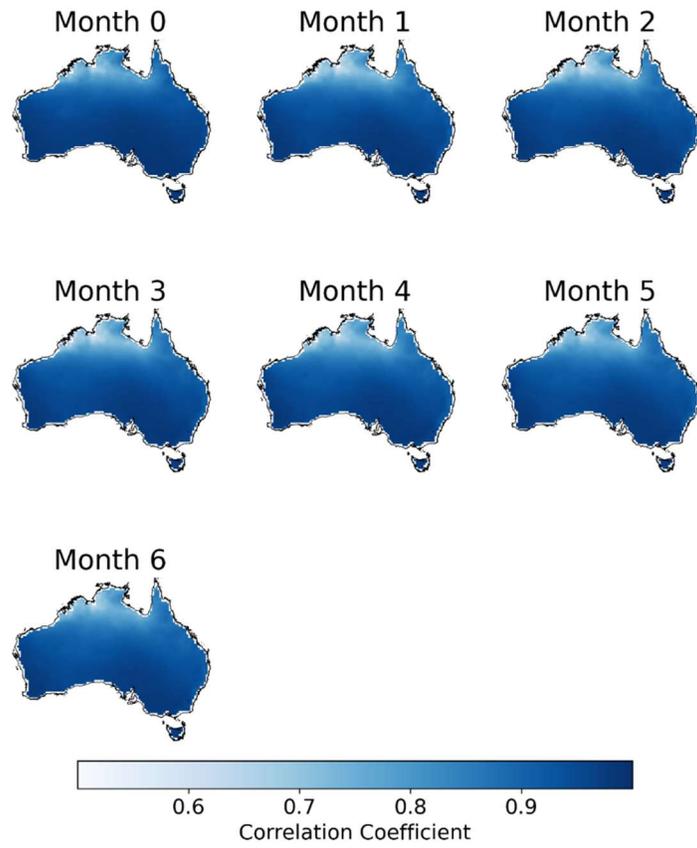


Figure S9. Boxplot of bias in raw and BJP-ti calibrated forecasts.

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Figure S10. Correlation coefficients between raw ET₀ forecasts and observations.

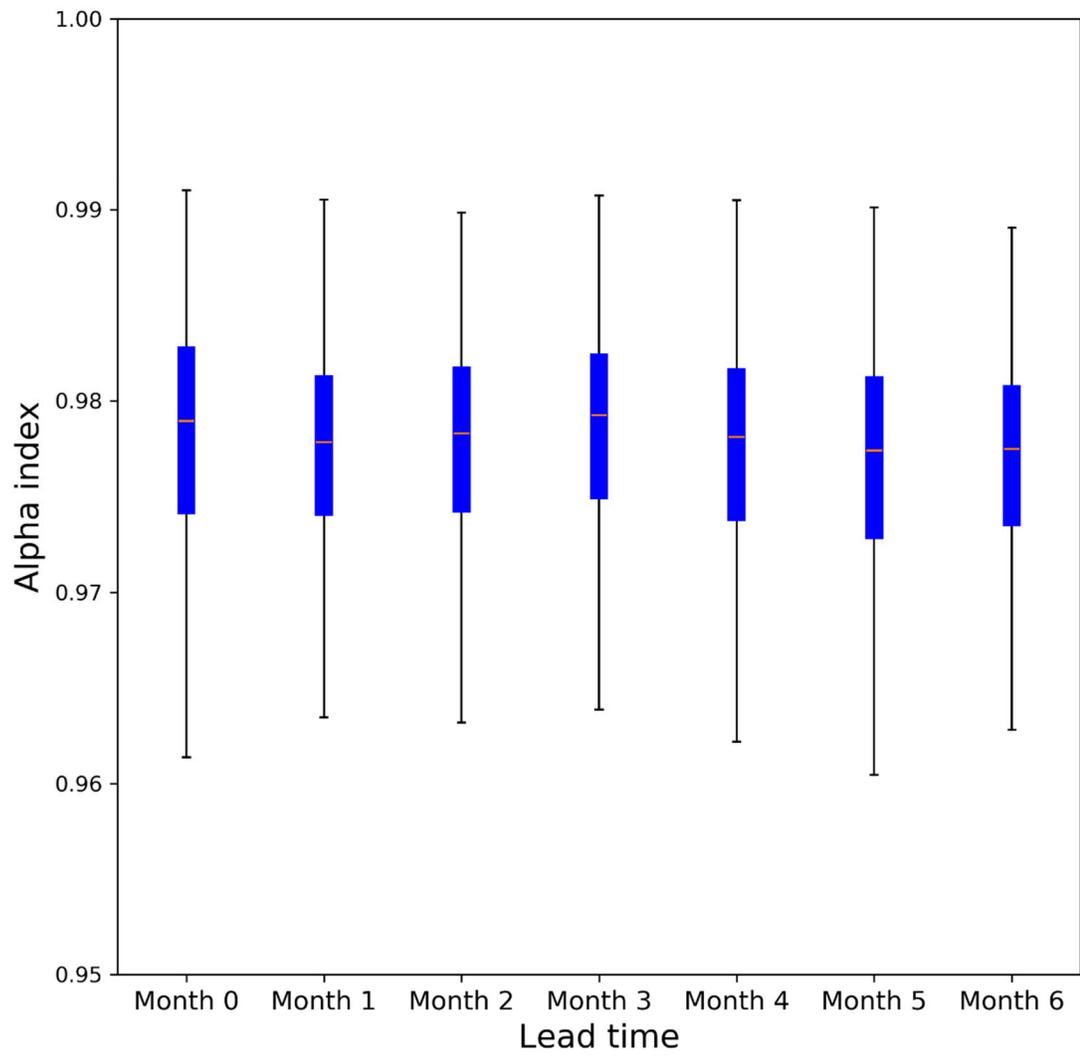
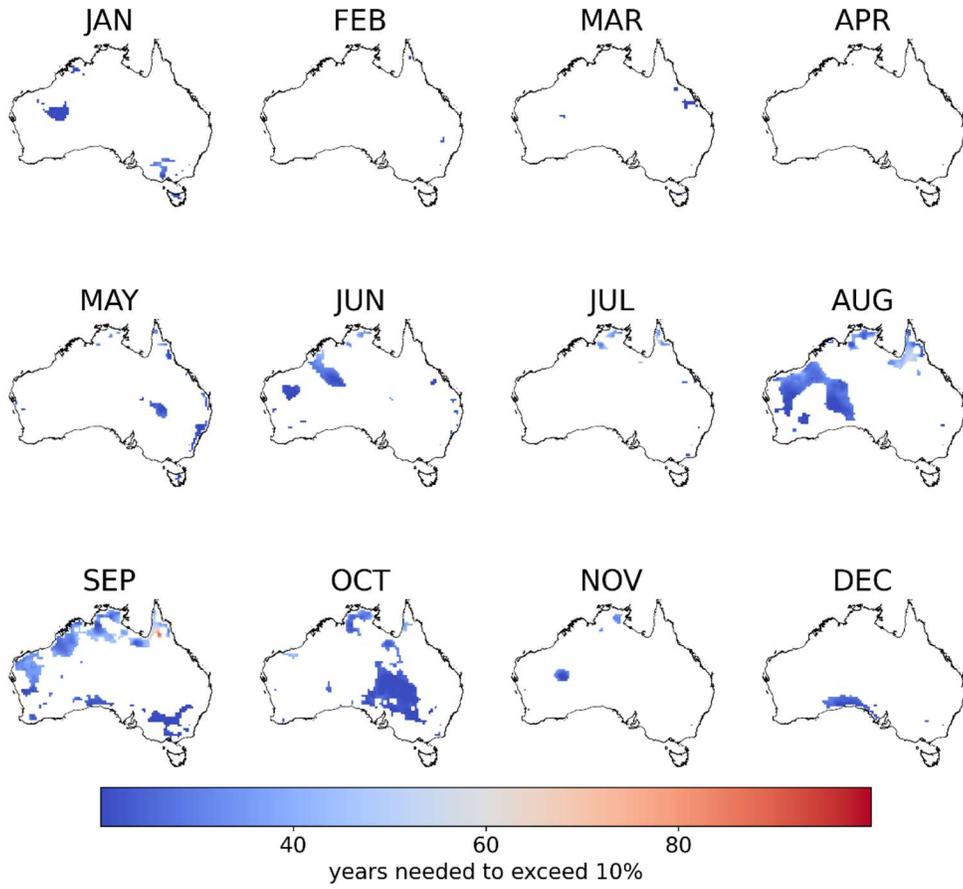


Figure S11. Boxplot of α -index of BJP-ti calibrated forecasts.

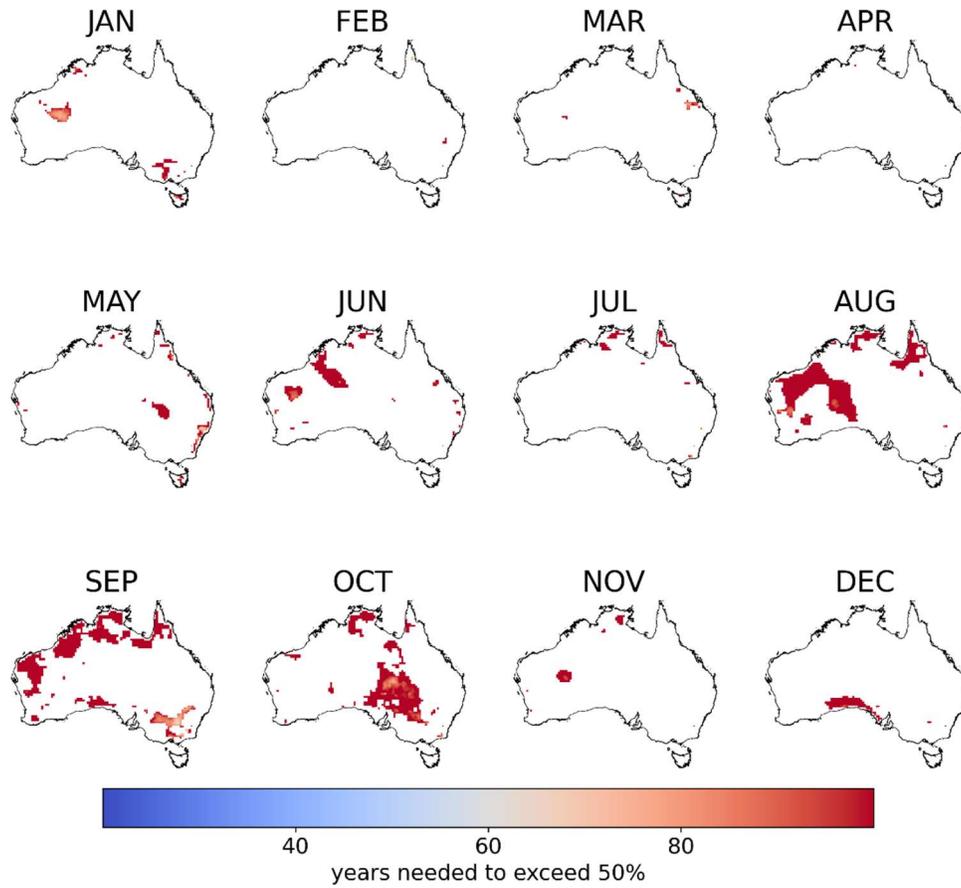
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Figure S12. Years needed for the departures of climatology forecasts from the BJP-ti calibrated forecasts to exceed 10%.



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Figure S13. Years needed for the departures of climatology forecasts from the BJP-ti calibrated forecasts to exceed 50%.

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