

**GFDL SHIELD: A Unified System for Weather-to-Seasonal Prediction**

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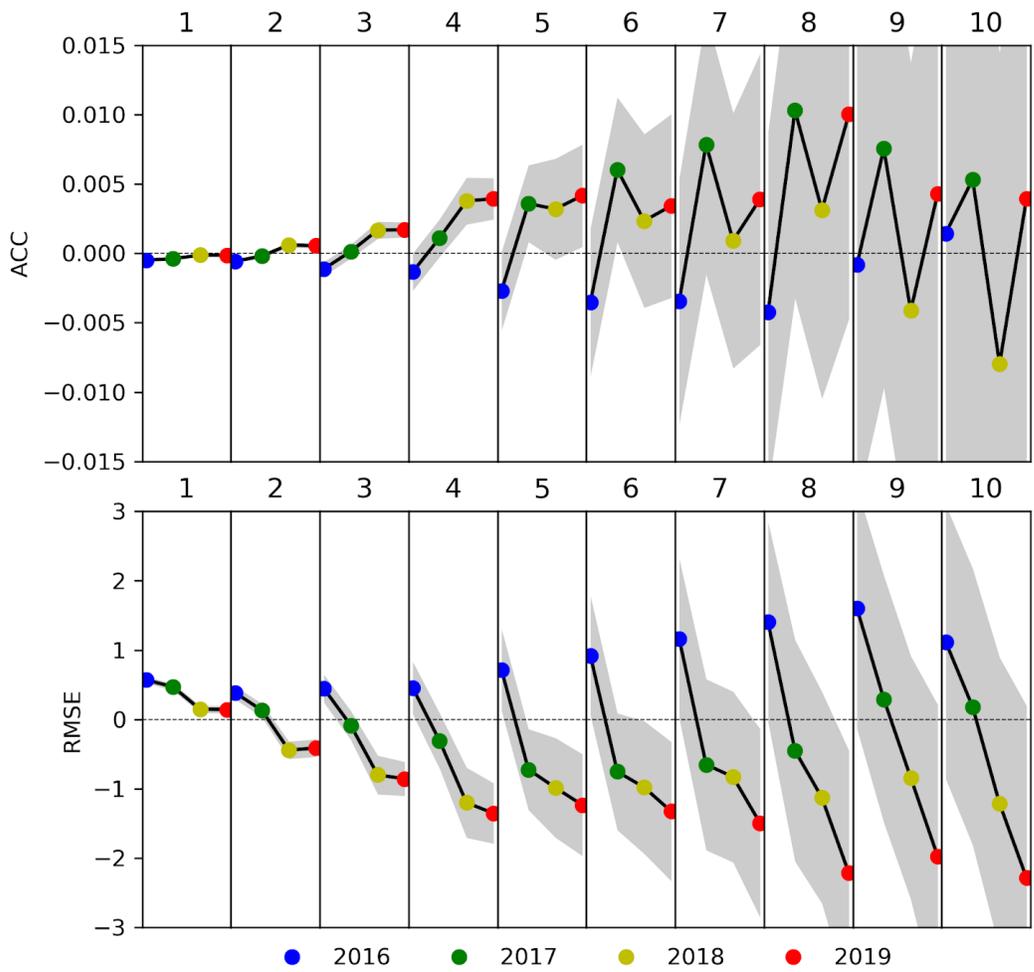
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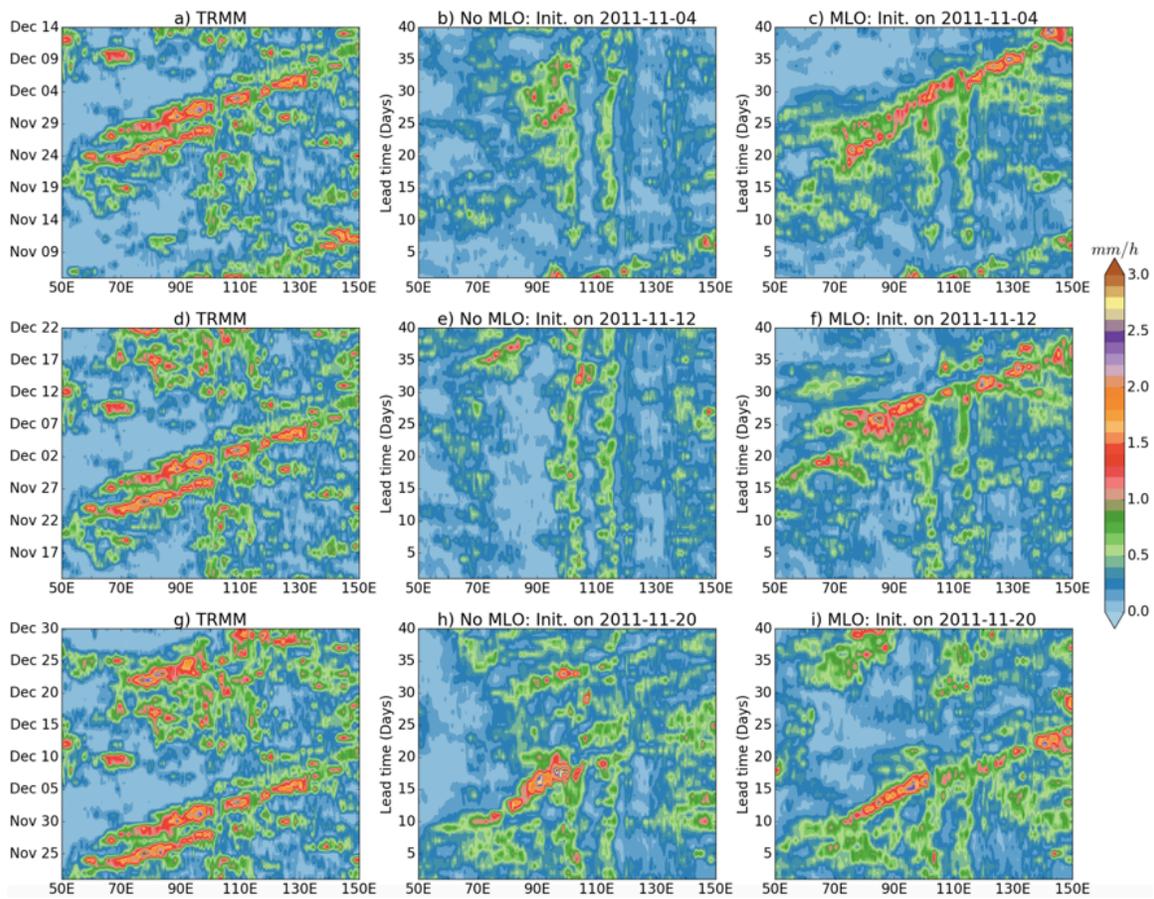
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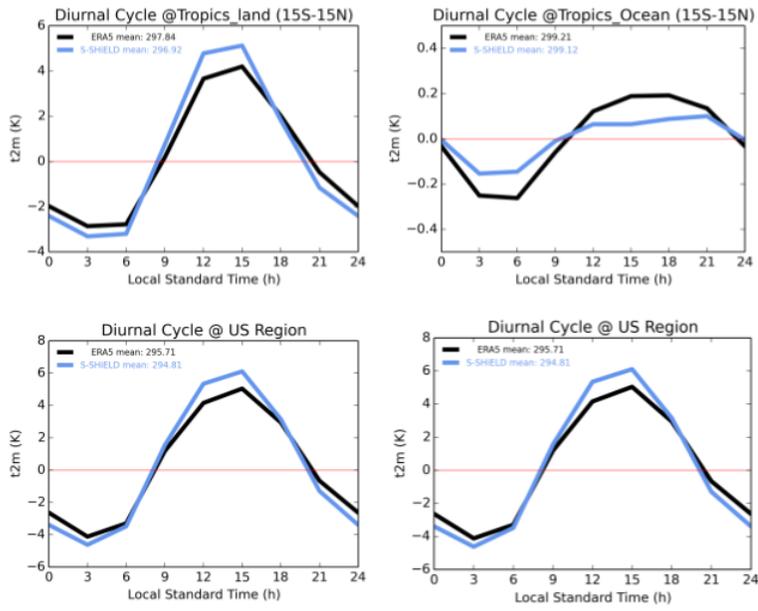
Figures S1 to S3



**Figure S1.** As in Figure 3, but for the Northern Hemisphere (20N–80N).



**Figure S2:** As in Figure 15, except for three different 40-day time periods starting in November 2011: 4th (top), 12th (middle), and 20th (bottom).



**Figure S3:** As in Figure 16 but for 2-m temperature from S-SHIELD, compared to that in ERA5.