

## **Supporting Information for**

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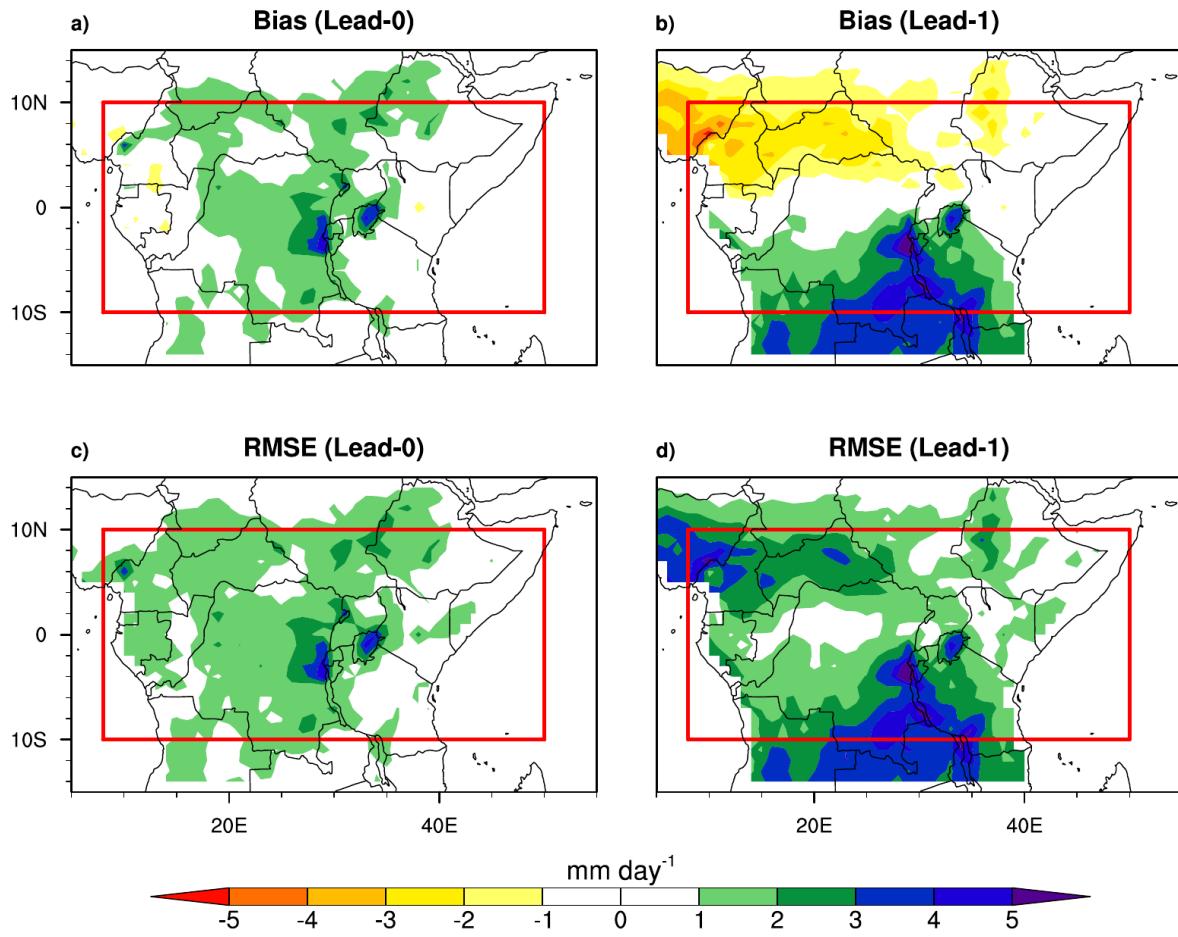
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44 **Fig S1:** Spatial distribution of (a-b) precipitation Bias and (c-d) RMSE for (first column) lead-0 and (second  
45 column) lead-1 month forecasts, for SON period. The red boxes indicate the EA boundaries.

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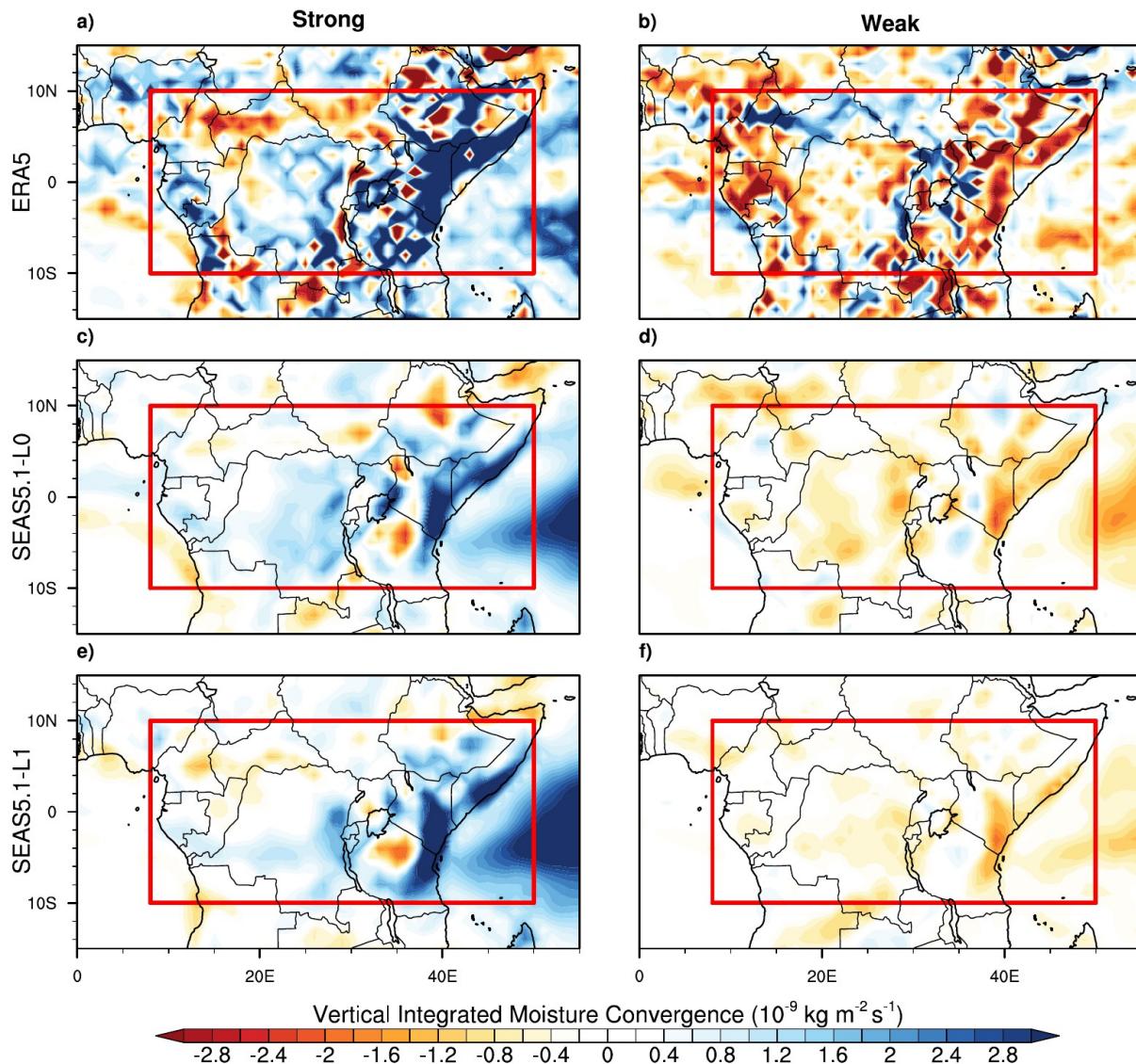
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57 **Fig S2:** Same as Fig. 14, but for vertically integrated moisture convergence ( $[q \nabla \cdot V]$ )

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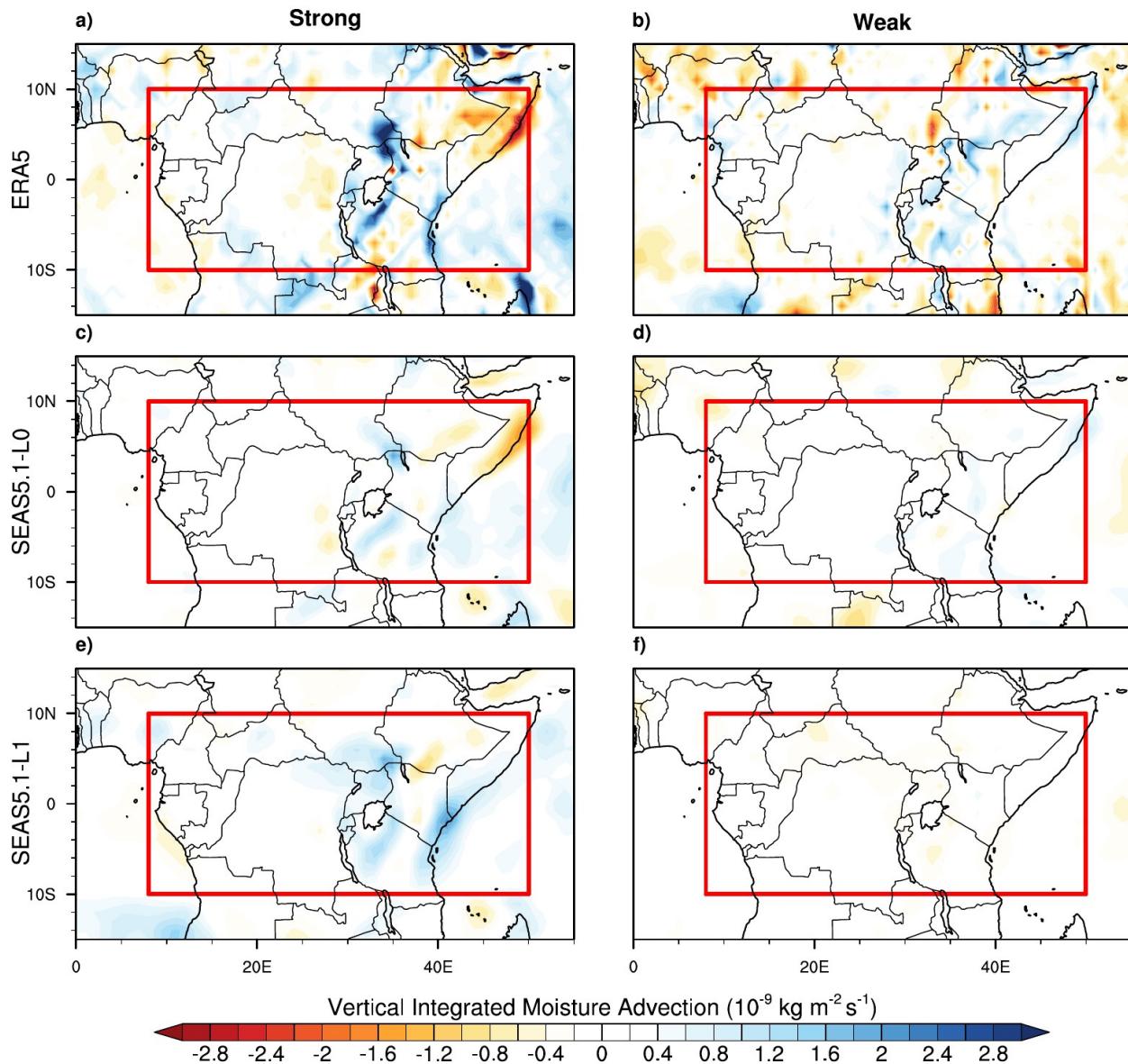
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66 **Fig S3:** Same as Fig. 14, but for vertically integrated moisture advection ( $|V \cdot \nabla q|$ )

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