# Supplemental Material

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Moisture Sources for East Asian Precipitation: Mean Seasonal Cycle and Interannual Variability
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TABLE S1. Seasonal moisture contributions from three sectors (Eurasian Continent, Indian Ocean and Pacific Ocean) to five regions (units: %). Contributions are further divided by the moisture lifetime at values of 5, 10 and 20 days. Values shown here are corresponding to bar charts in Figure 4.

| Region | Season | $\rho$ | Eurasian Continent | | | | Indian Ocean | | | | Pacific Ocean | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 5d | 10d | 20d | $20^{+}$d | 5d | 10d | 20d | $20^{+}$d | 5d | 10d | 20d | $20^{+}$d |
| 1 | DJF | 14% | 12% | 18% | 12% | 3% | 1% | 11% | 7% | 1% | 2% | 9% | 7% | 3% |
| | MAM | 14% | 13% | 13% | 11% | 4% | 3% | 10 | 13% | 6% | 0 | 3% | 8% | 2% |
| | JJA | 16% | 7% | 5% | 6% | 4% | 3% | 15% | 24% | 5% | 1% | 3% | 6% | 5% |
| | SON | 19% | 5% | 12% | 6% | 1% | 0 | 10 | 12% | 7% | 0 | 14% | 10 % | 4% |
| 2 | DJF | 13% | 14% | 26% | 18% | 7% | 0 | 3% | 13% | 4% | 0 | 0 | 0 | 2% |
| | MAM | 30 | 19% | 15% | 16% | 5% | 0 | 1% | 11% | 2% | 0 | 0 | 0 | 1% |
| | JJA | 24% | 10 | 15% | 12% | 10 | 0 | 6% | 16% | 5% | 0 | 0 | 0 | 2% |
| | SON | 28% | 11% | 19% | 14% | 2% | 0 | 3% | 13% | 8% | 0 | 0 | 1% | 1% |
| 3 | DJF | 9% | 13% | 18% | 28% | 7% | 0 | 3% | 6% | 3% | 4% | 3% | 5% | 1% |
| | MAM | 9% | 20 | 21% | 16% | 6% | 0 | 3% | 7% | 4% | 4% | 3% | 4% | 3% |
| | JJA | 10 | 10 | 17% | 11% | 5% | 0 | 5% | 13% | 6% | 3% | 6% | 9% | 5% |
| | SON | 11% | 14% | 20 | 14% | 4% | 0 | 0 | 7% | 5% | 6% | 5% | 9% | 5% |
| 4 | DJF | 5% | 10 | 21% | 44% | 5% | 0 | 0 | 7% | 5% | 0 | 0 | 1% | 2% |
| | MAM | 17% | 20 | 23% | 21% | 7% | 0 | 0 | 6% | 4% | 0 | 1% | 0 | 1% |
| | JJA | 20 | 12% | 19% | 21% | 7% | 0 | 2% | 7% | 5% | 0 | 2% | 3% | 2% |
| | SON | 12% | 18% | 22% | 23% | 4% | 0 | 0 | 6% | 6% | 0 | 1% | 3% | 5% |
| 5 | DJF | 7% | 6% | 11% | 41% | 7% | 0 | 0 | 2% | 3% | 10 | 5% | 6% | 2% |
| | MAM | 12% | 13% | 22% | 19% | 8% | 0 | 0 | 2% | 4% | 10 | 4% | 4% | 2% |
| | JJA | 12% | 5% | 21% | 17% | 5% | 0 | 0 | 7% | 6% | 8% | 8% | 7% | 4% |
| | SON | 9% | 13% | 17% | 21% | 2% | 0 | 0 | 2% | 7% | 14% | 4% | 5% | 6% |

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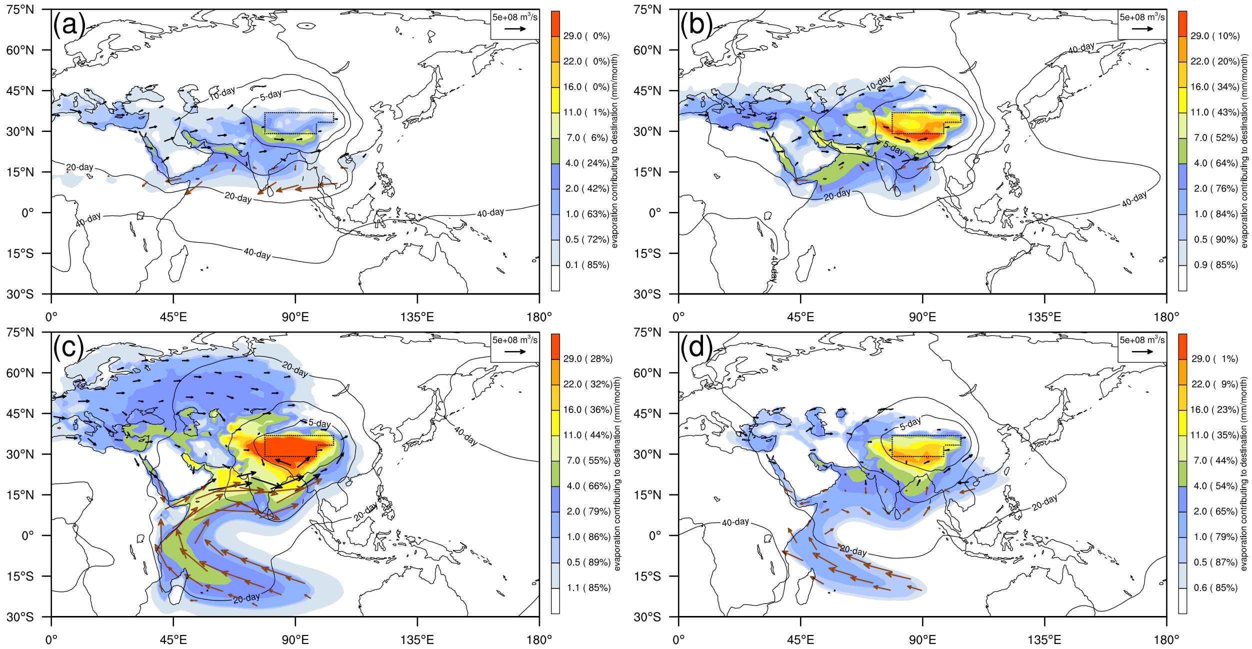


FIG. S1. Seasonal mean moisture sources for precipitation in region 2 for (a) DJF, (b) MAM, (c) JJA and (d) SON.

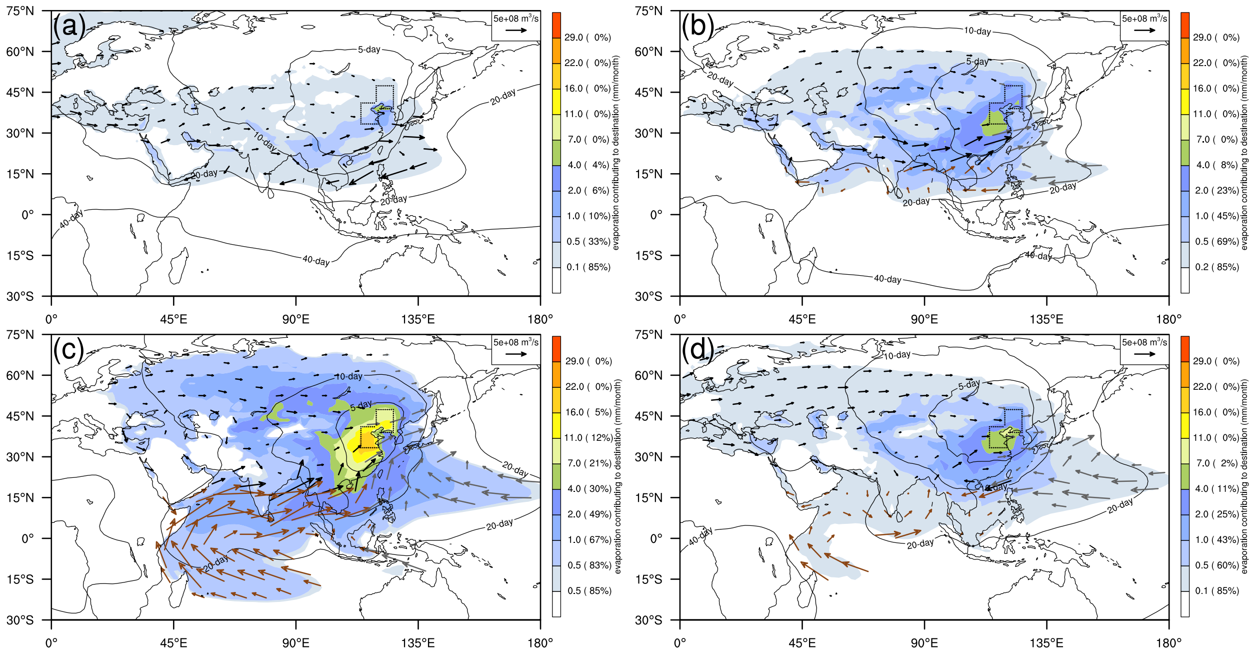


FIG. S2. Seasonal mean moisture sources for precipitation in region 3 for (a) DJF, (b) MAM, (c) JJA and (d) SON.

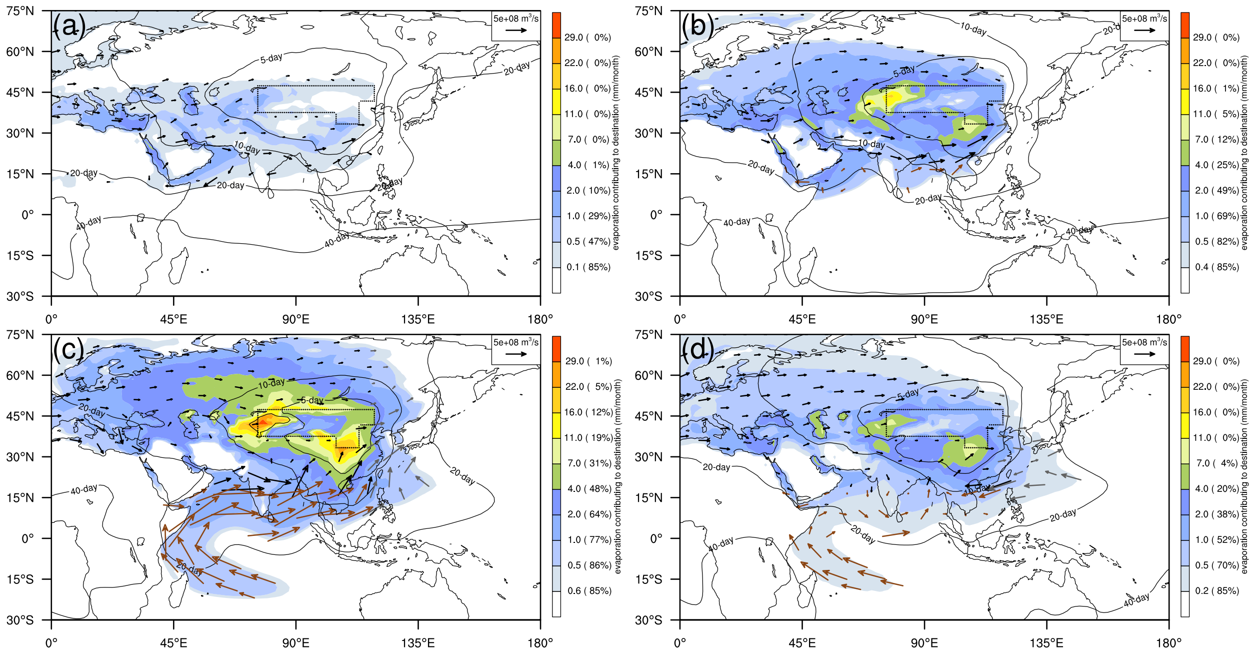


FIG. S3. Seasonal mean moisture sources for precipitation in region 4 for (a) DJF, (b) MAM, (c) JJA and (d) SON.

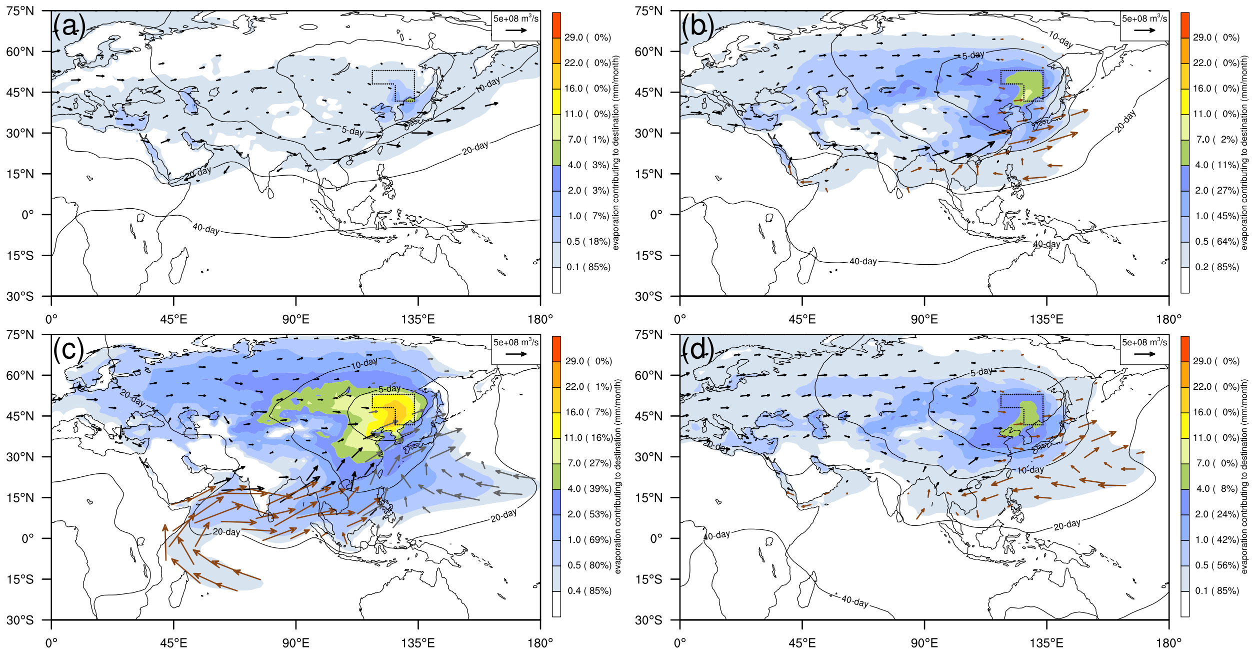

FIG. S4. Seasonal mean moisture sources for precipitation in region 5 for (a) DJF, (b) MAM, (c) JJA and (d) SON.