



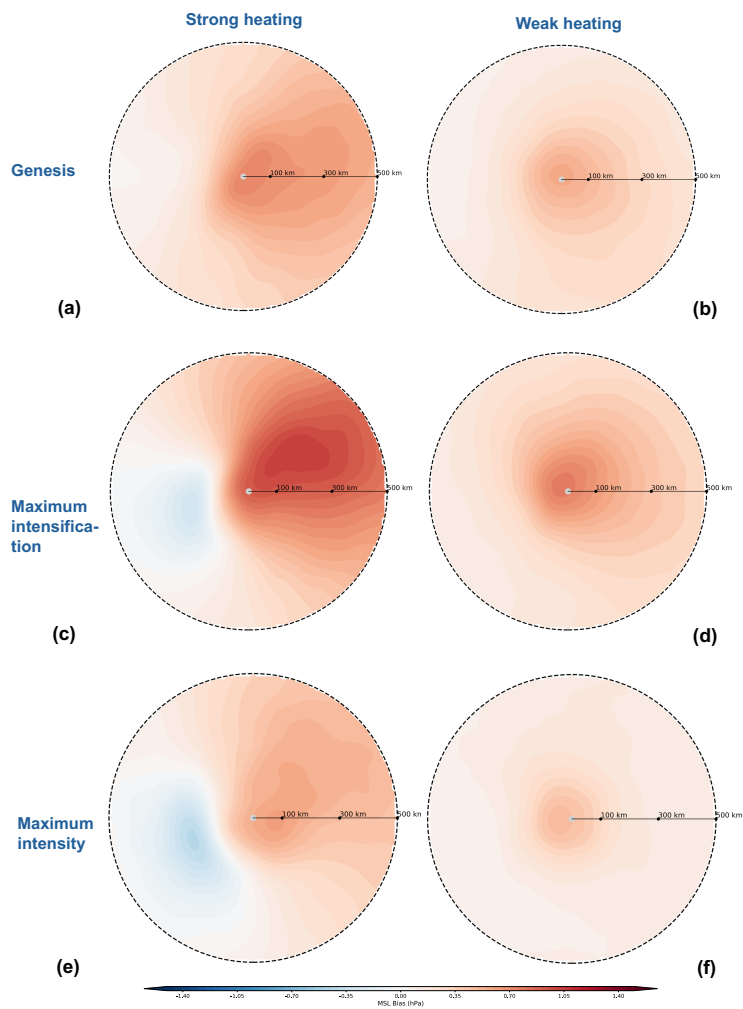
*Supplement of*

## **Distinct bias structures for extratropical cyclones with strong or weak diabatic heating**

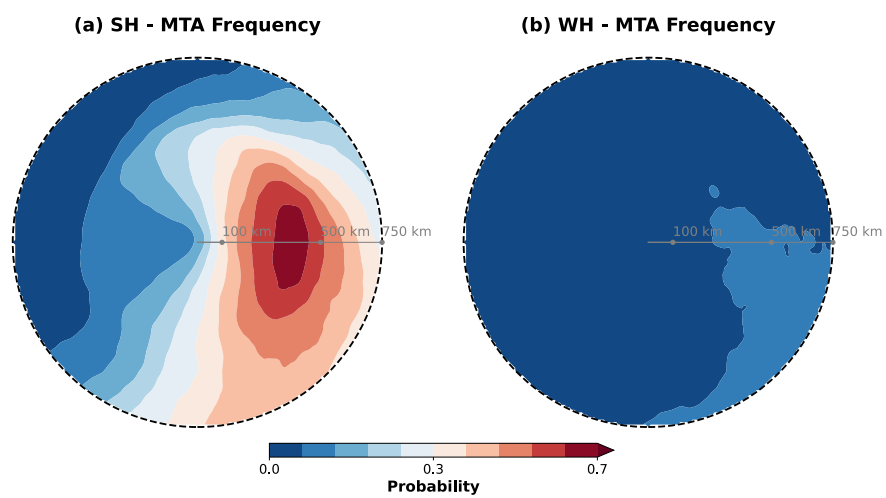
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**Figure S1:** Bias of mean sea level pressure (MSLP, unit: hPa) for the (a, c, e) strong heating group and (b, d, f) weak heating group, composited at (a, b) genesis, (c, d) maximum intensification, and (e, f) maximum intensity time steps.



**Figure S2:** Cyclone-relative composite spatial frequency of Moist Transport Axis (MTA) for (a) strong heating (SH) group and (b) weak heating (WH) group.