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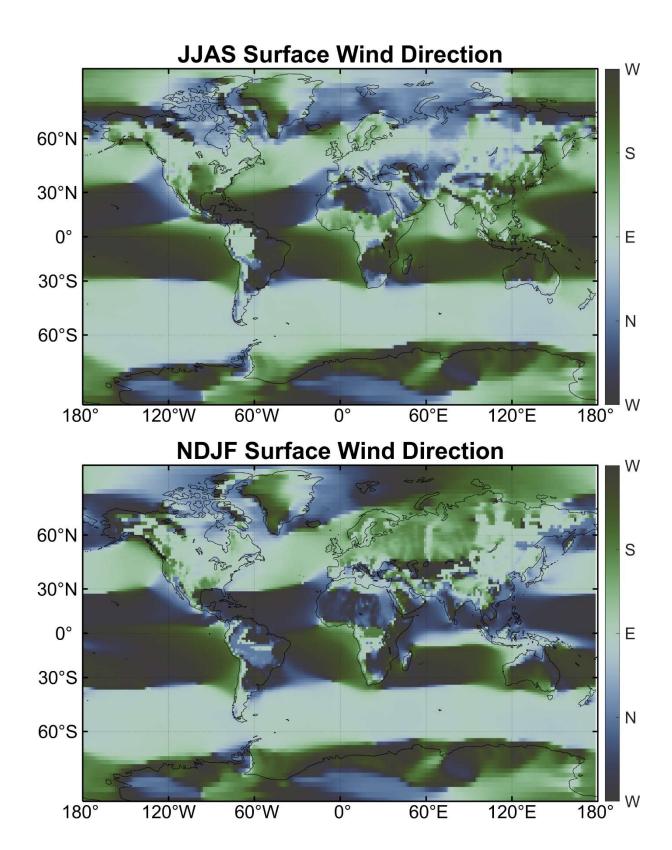
## Supplement of

## A novel identification method for stratospheric gravity waves in nadir viewing satellite observations

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**Figure S1.** Average surface wind direction from ERA5 climatological reanalyses. The top panel has the average direction from June – September, and the bottom has the average direction from November – February.