

**Supporting Information for “ The delayed effect of the 2019 southern
SSW on the polar mesospheric cloud occurrence”**

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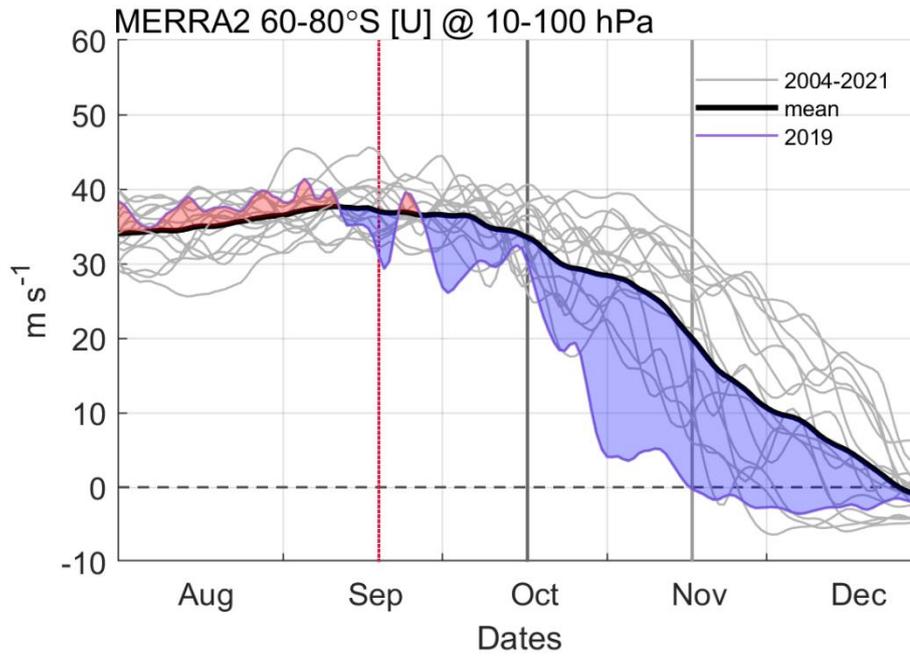


Figure S1. MERRA2 zonal mean zonal wind averaged at 60°-80°S, 10 hPa from August to December (light gray lines), the purple line denotes the zonal wind of 2019, the black thick line indicate the mean zonal mean zonal wind from 2004 to 2018, the red and blue shadings indicate positive and negative anomalies compare to the climatological mean.