



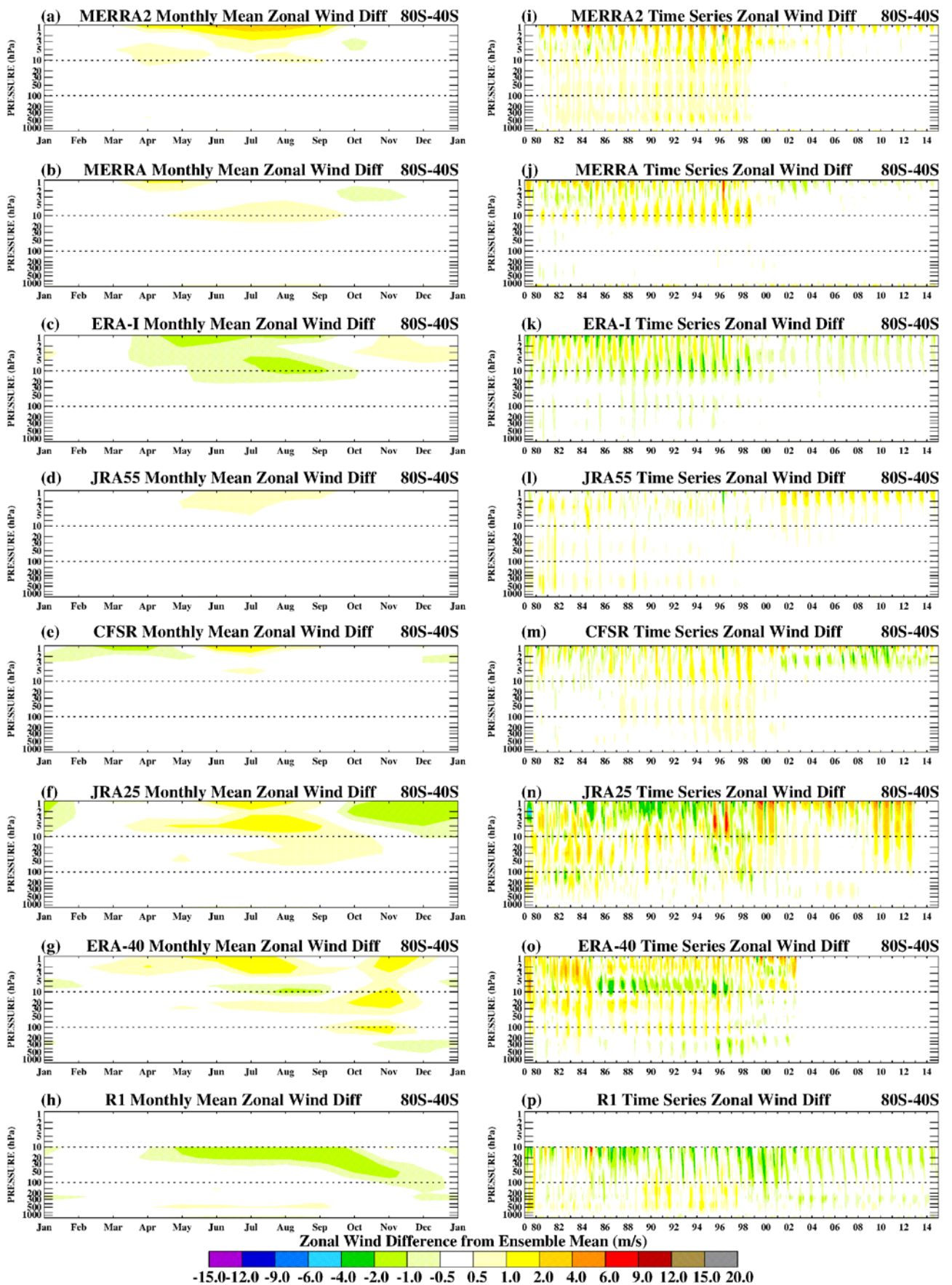
Supplement of

**Climatology and interannual variability of dynamic variables
in multiple reanalyses evaluated by the SPARC Reanalysis
Intercomparison Project (S-RIP)**

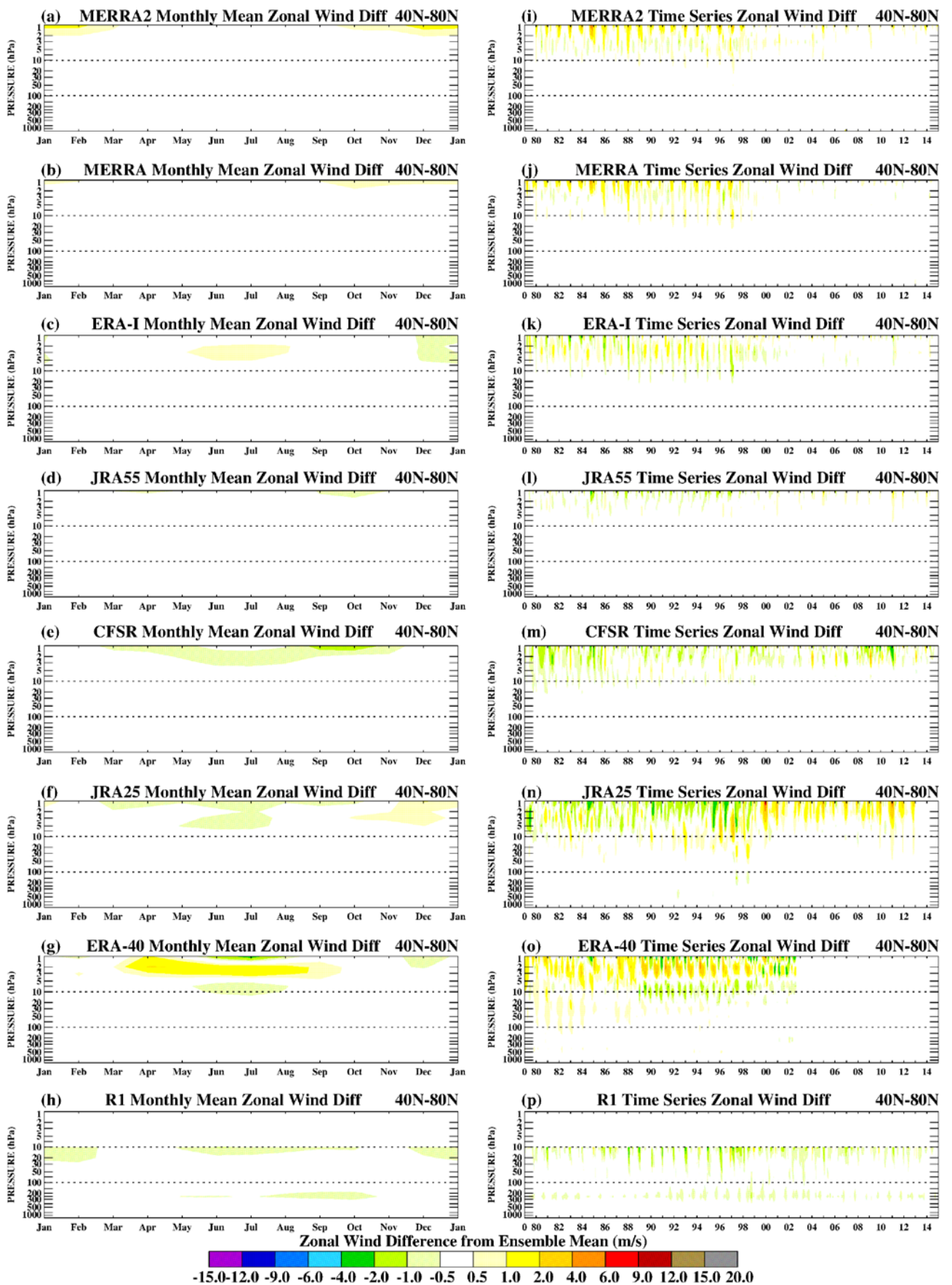
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S1. Pressure vs month plots (left) and pressure vs time plots (right) of the zonal wind difference (m/s) of individual reanalyses from the REM from the zonal region $80^{\circ}\text{S} - 40^{\circ}\text{S}$. The reanalyses are a) MERRA-2, b) MERRA, c) ERA-I, d) JRA-55, e) CFSR, f) JRA-25, g) ERA-40, and h) R1.



S2. Pressure vs month plots (left) and pressure vs time plots (right) of the zonal wind difference (m/s) of individual reanalyses from the REM from the zonal region 40° N – 80° N. The reanalyses are a) MERRA-2, b) MERRA, c) ERA-I, d) JRA-55, e) CFSR, f) JRA-25, g) ERA-40, and h) R1.