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*Supplement of*

## **The impact of the rotation rate on an aquaplanet's radiant energy budget: insights from experiments varying the Coriolis parameter**

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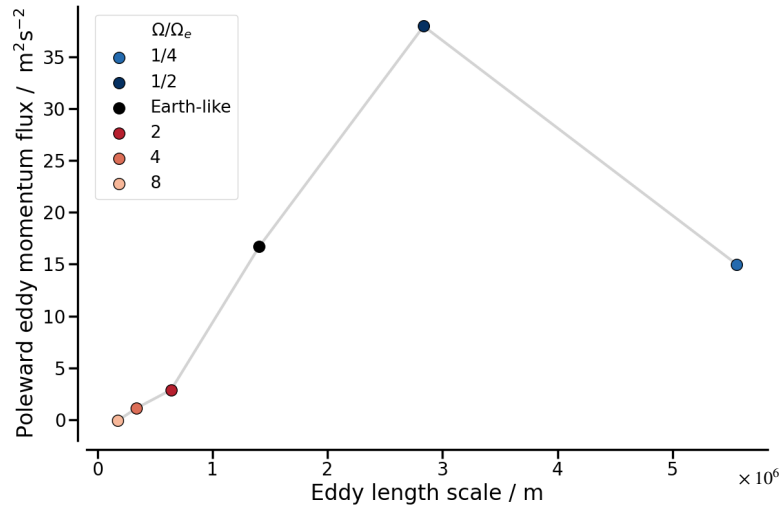


Figure S1: Eddy momentum flux vs eddy length scale for different rotation rates.

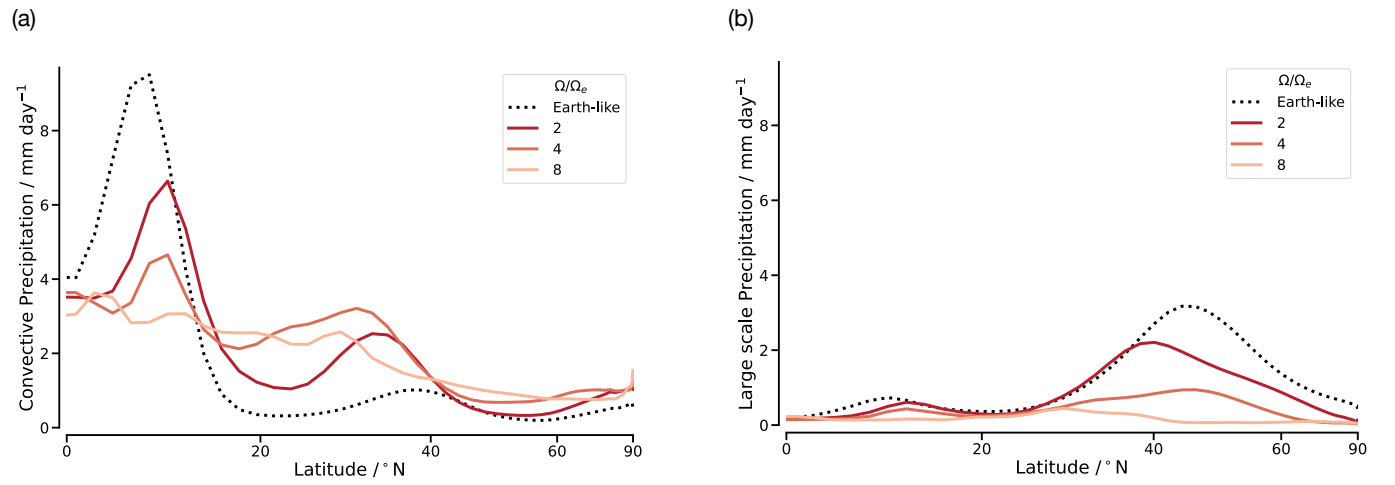


Figure S2: Zonal mean of (a) convective and (b) large-scale precipitation for rotation rates from Earth-like to  $\Omega/\Omega_e = 8$ .

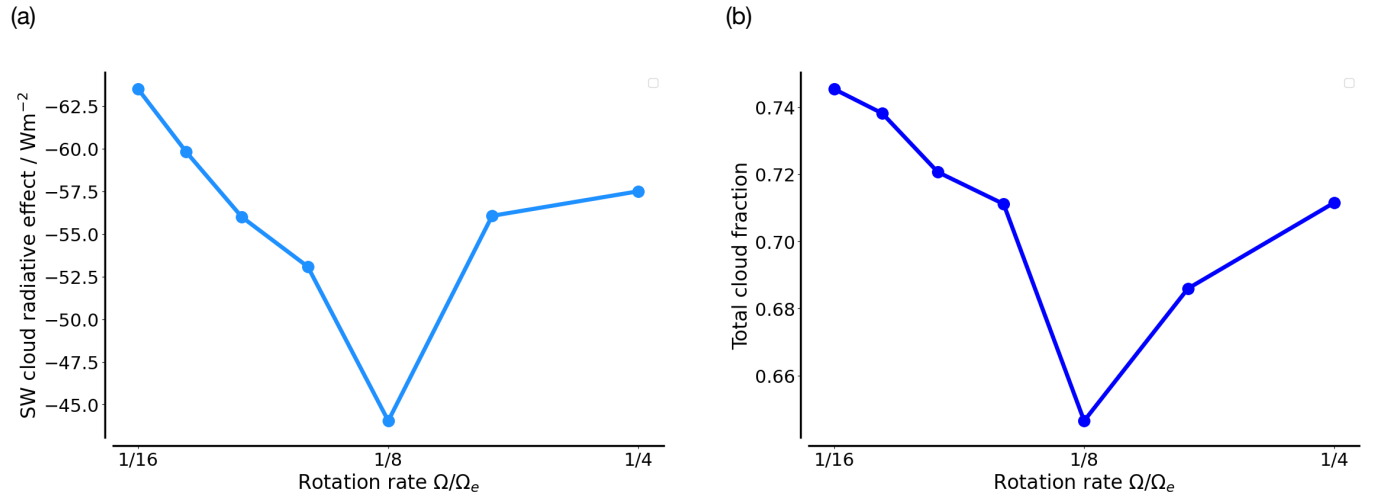


Figure S3: Global mean of (a) SW cloud radiative effect and (b) total cloud fraction for rotation rates between  $\Omega/\Omega_e = 1/4$  and  $\Omega/\Omega_e = 1/16$ .

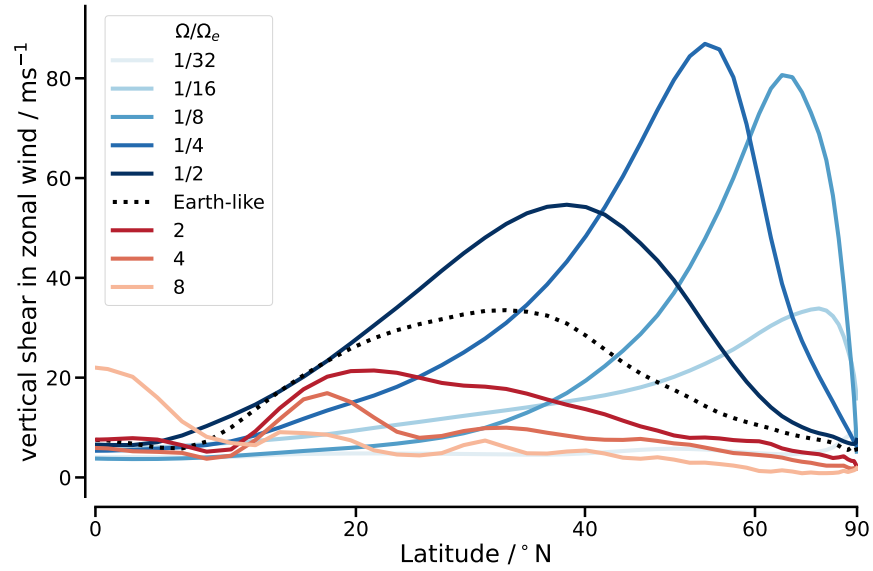


Figure S4: Zonal mean of the vertical shear of the zonal wind between 250 hPa and 850 hPa at different rotation rates.

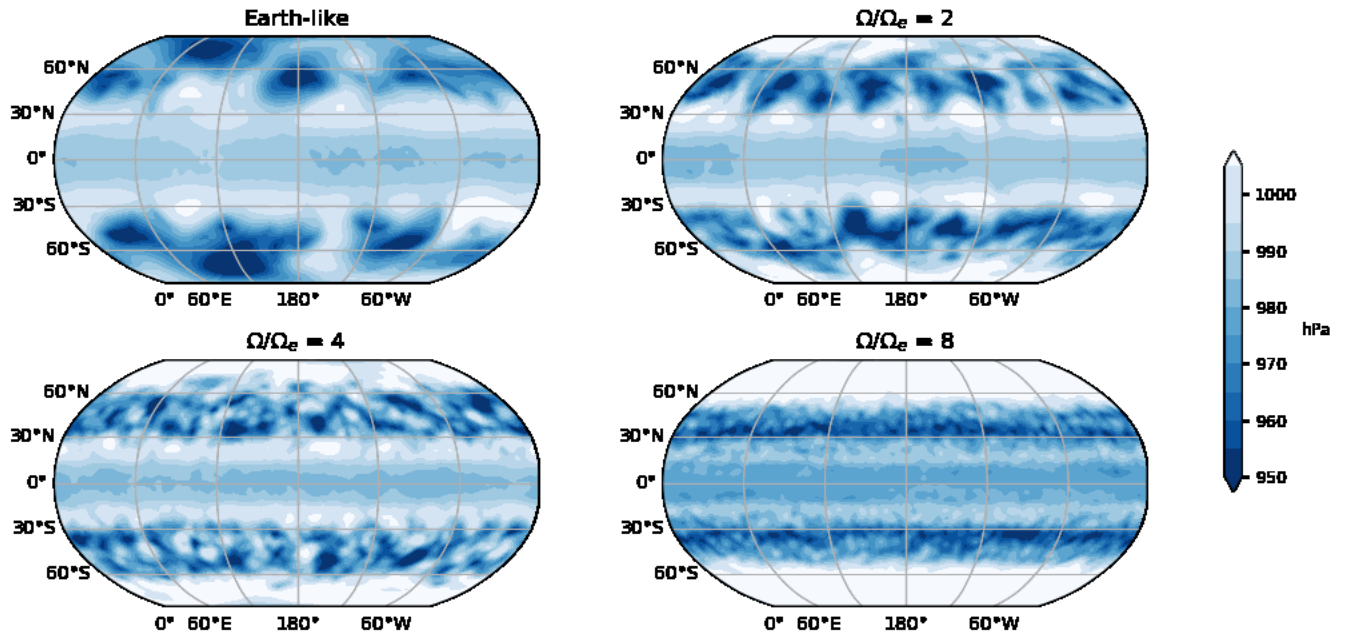


Figure S5: Snapshot of surface pressure for Earth-like and faster rotation cases.