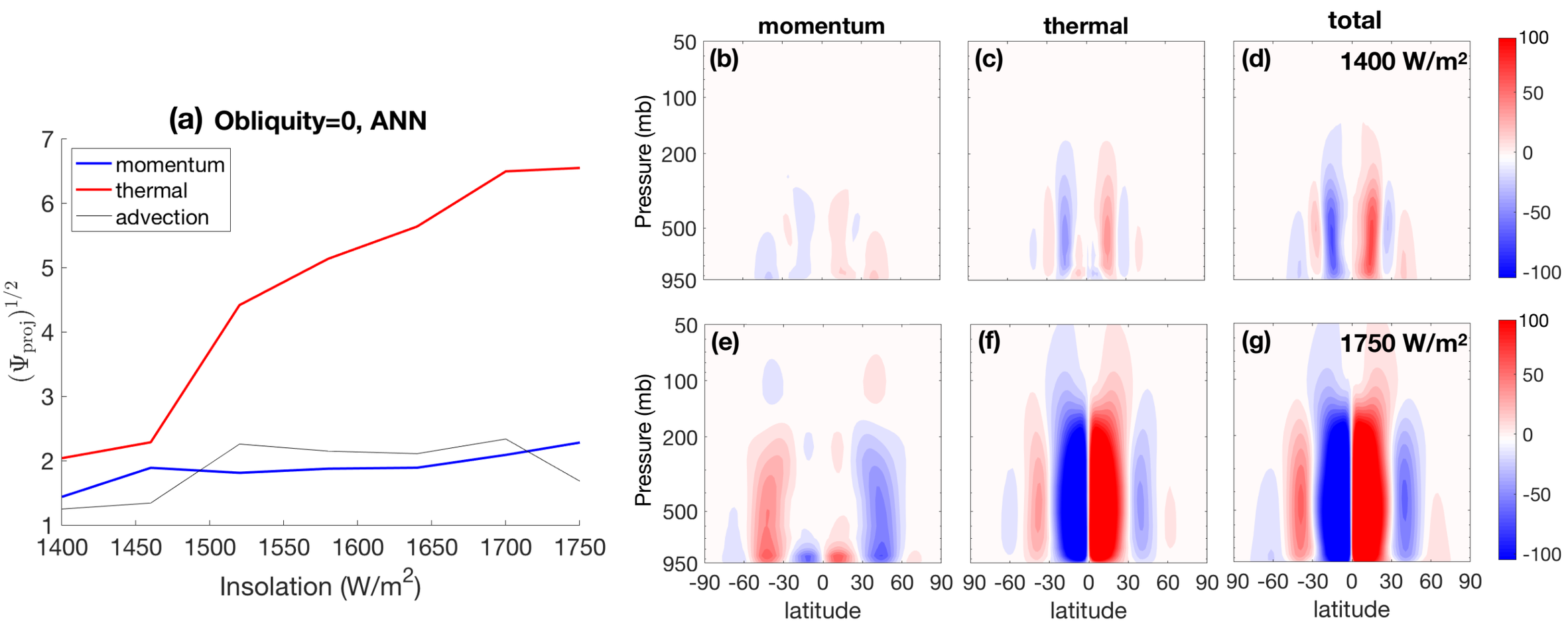
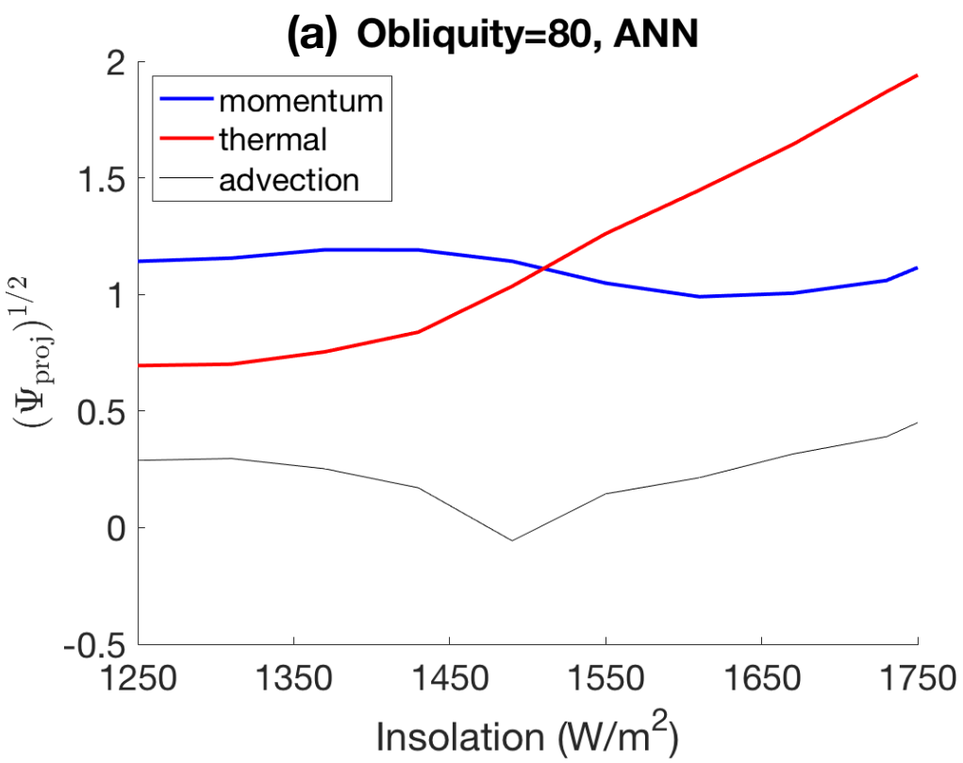


Fig. S2

Same as Fig. 1 in the main text, except that the circulation is decomposed into momentum driven and thermal driven.



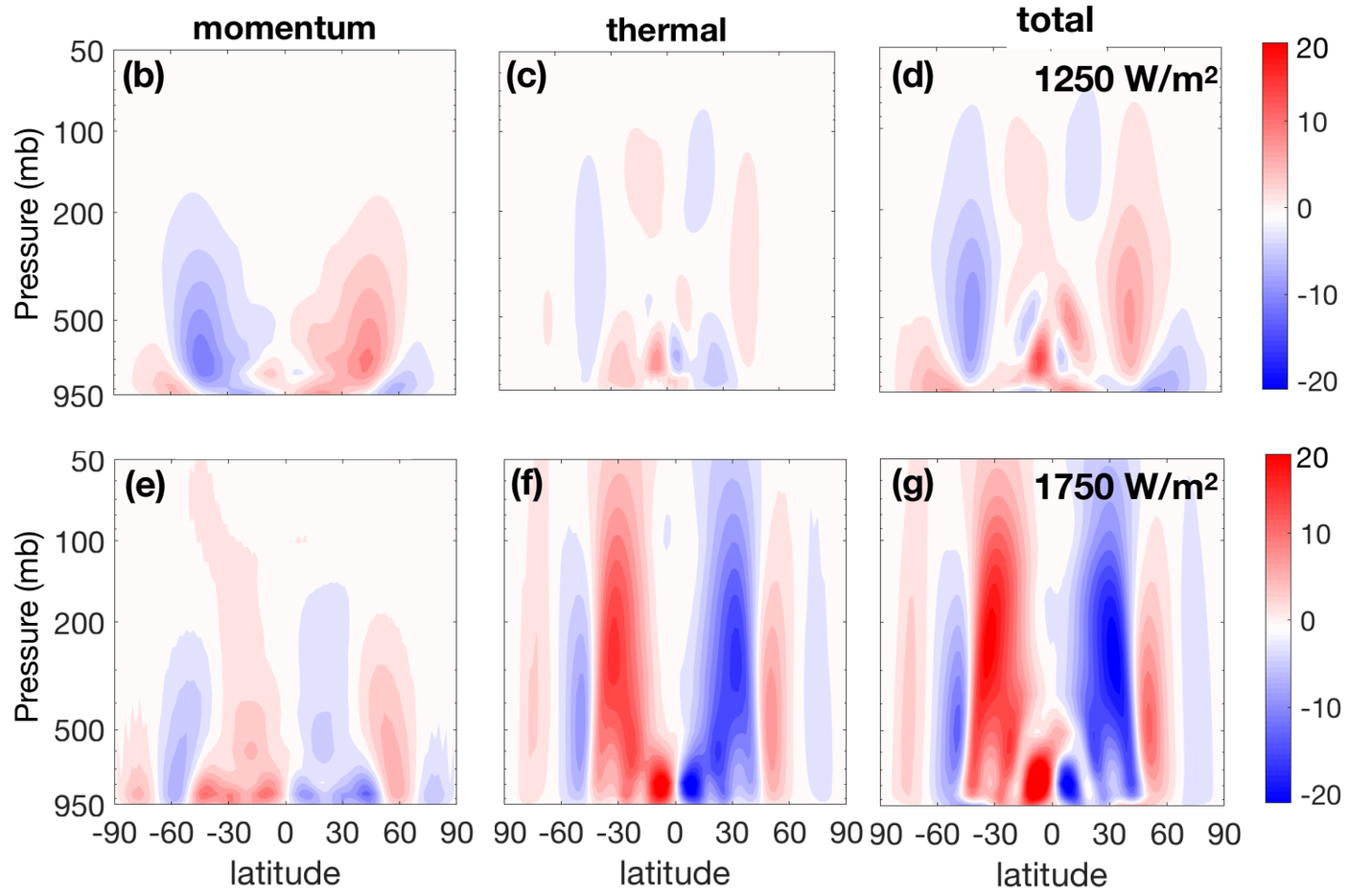
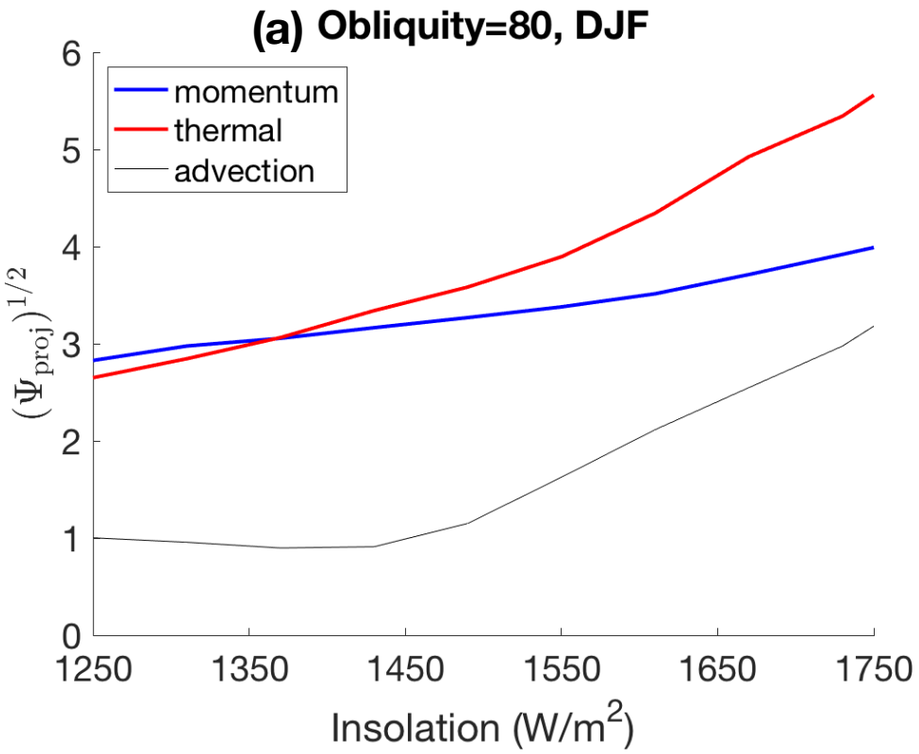


Fig. S3

Same as Fig. 2 in the main text, except that the circulation is decomposed into momentum driven and thermal driven.



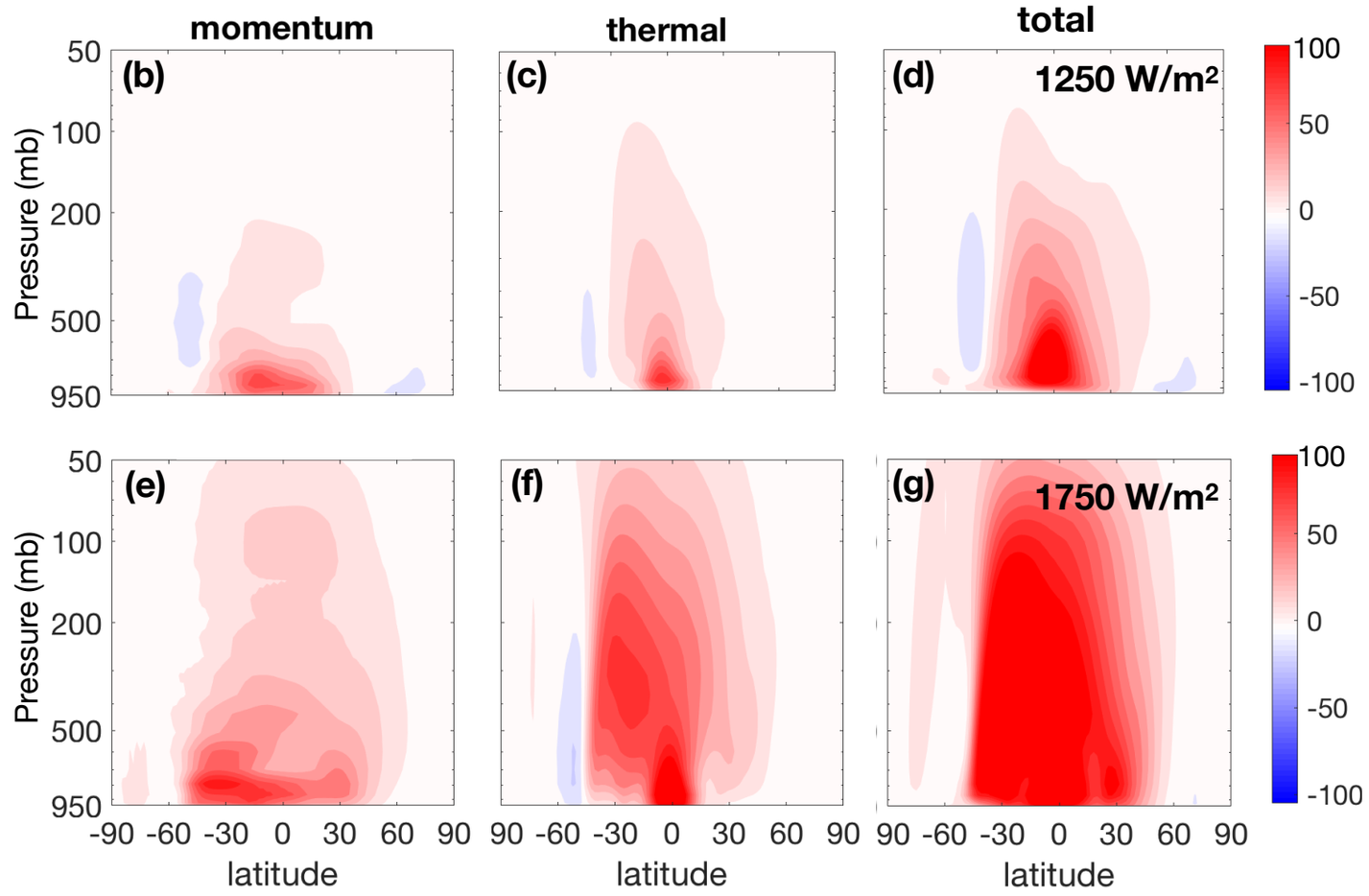


Fig. S4

Same as Fig. 3 in the main text, except that the circulation is decomposed into momentum driven and thermal driven.

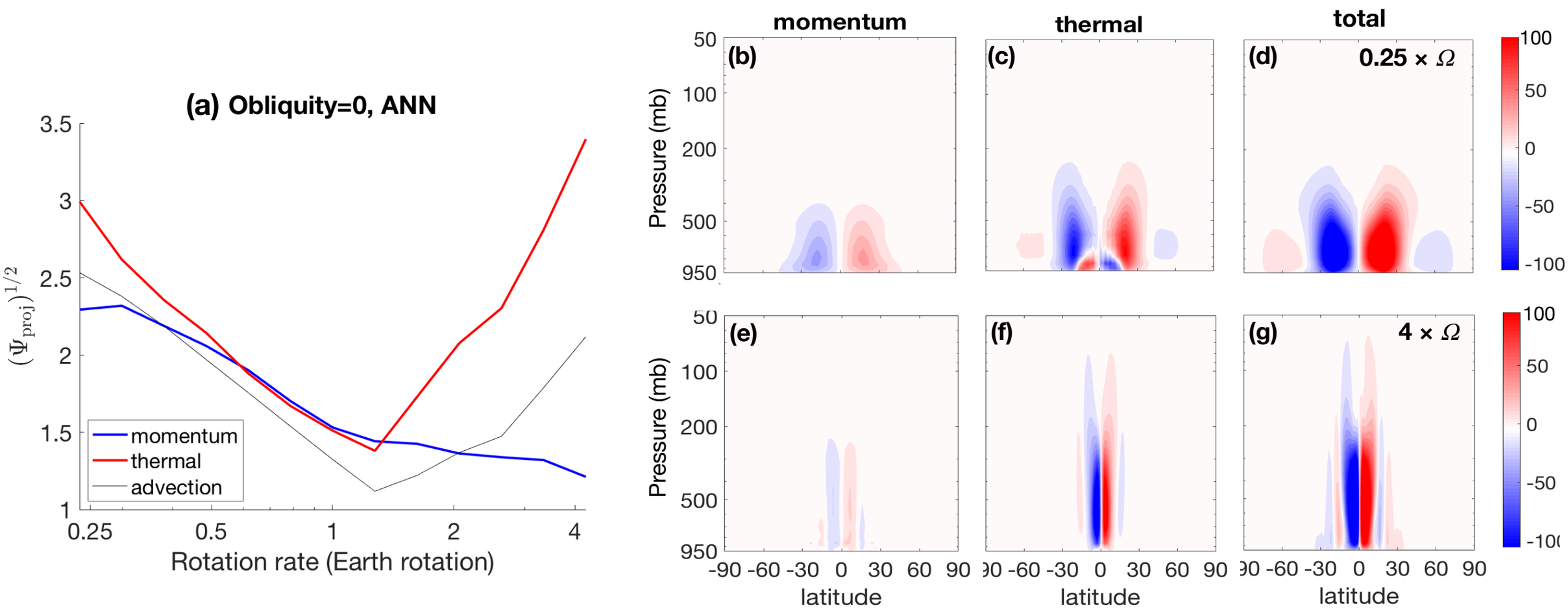
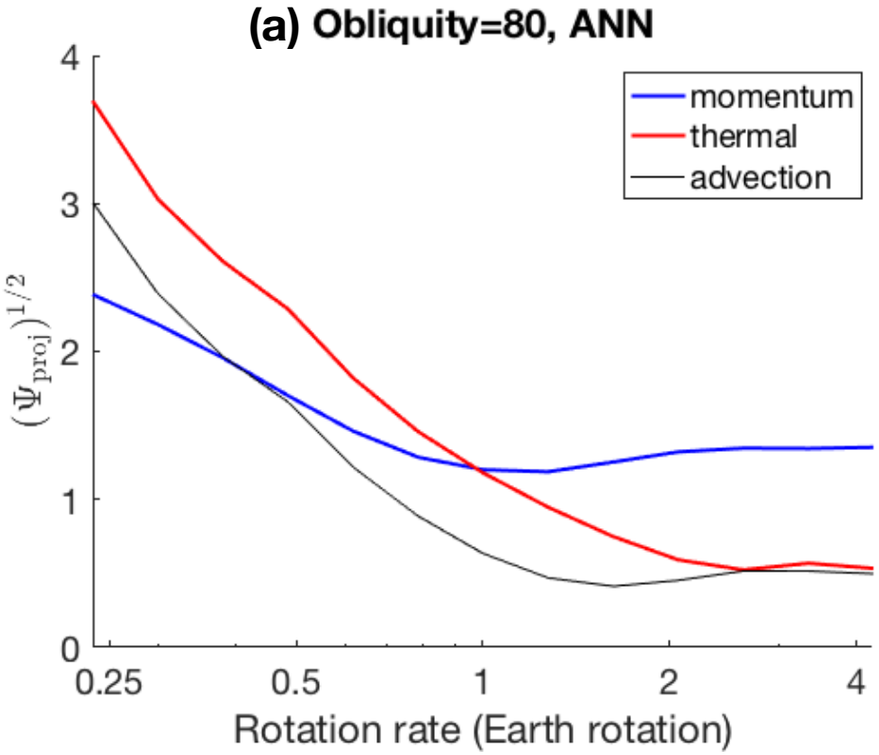


Fig. S5

Same as Fig. 4 in the main text, except that the circulation is decomposed into momentum driven and thermal driven.



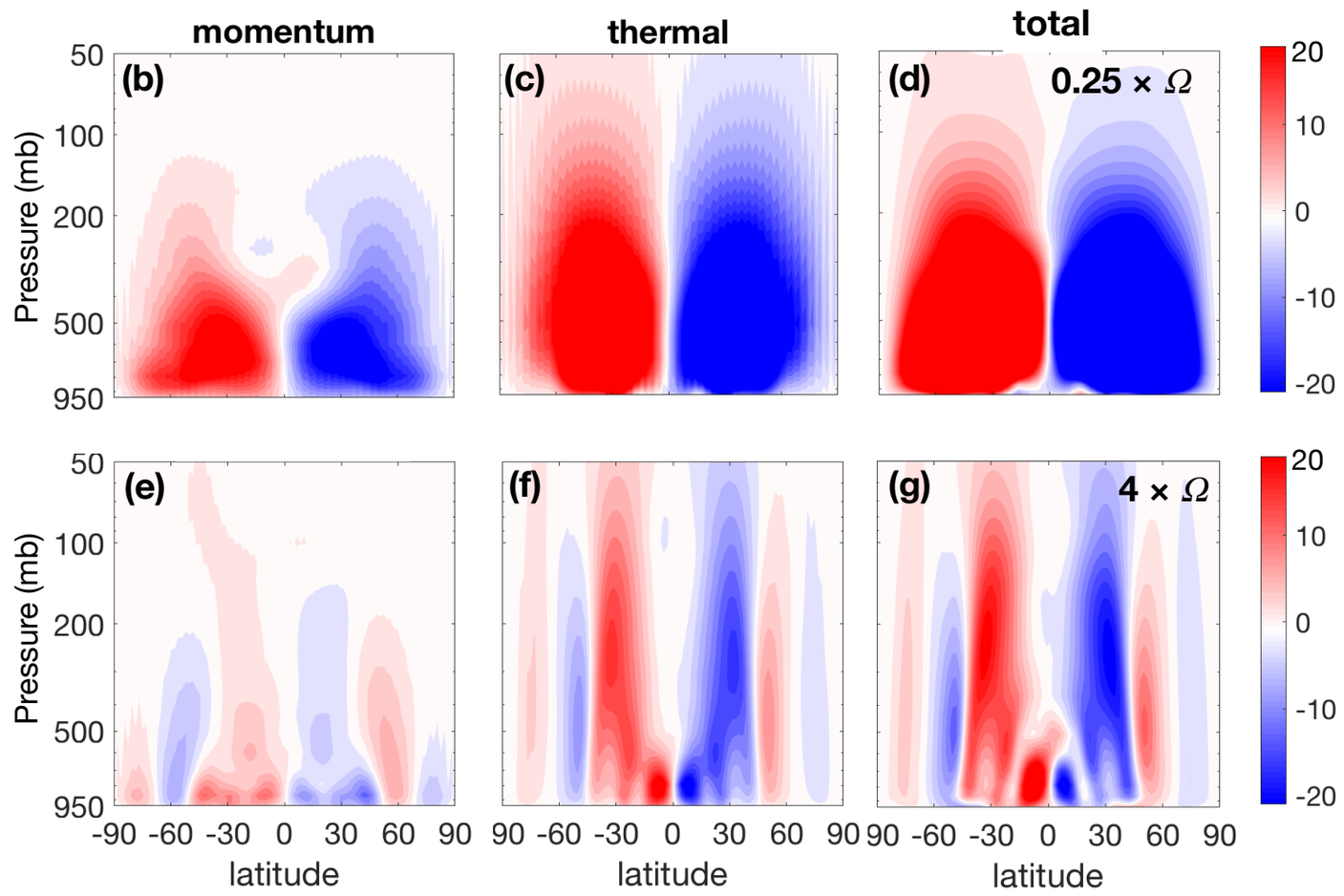


Fig. S6

Same as Fig. 5 in the main text, except that the circulation is decomposed into momentum driven and thermal driven.

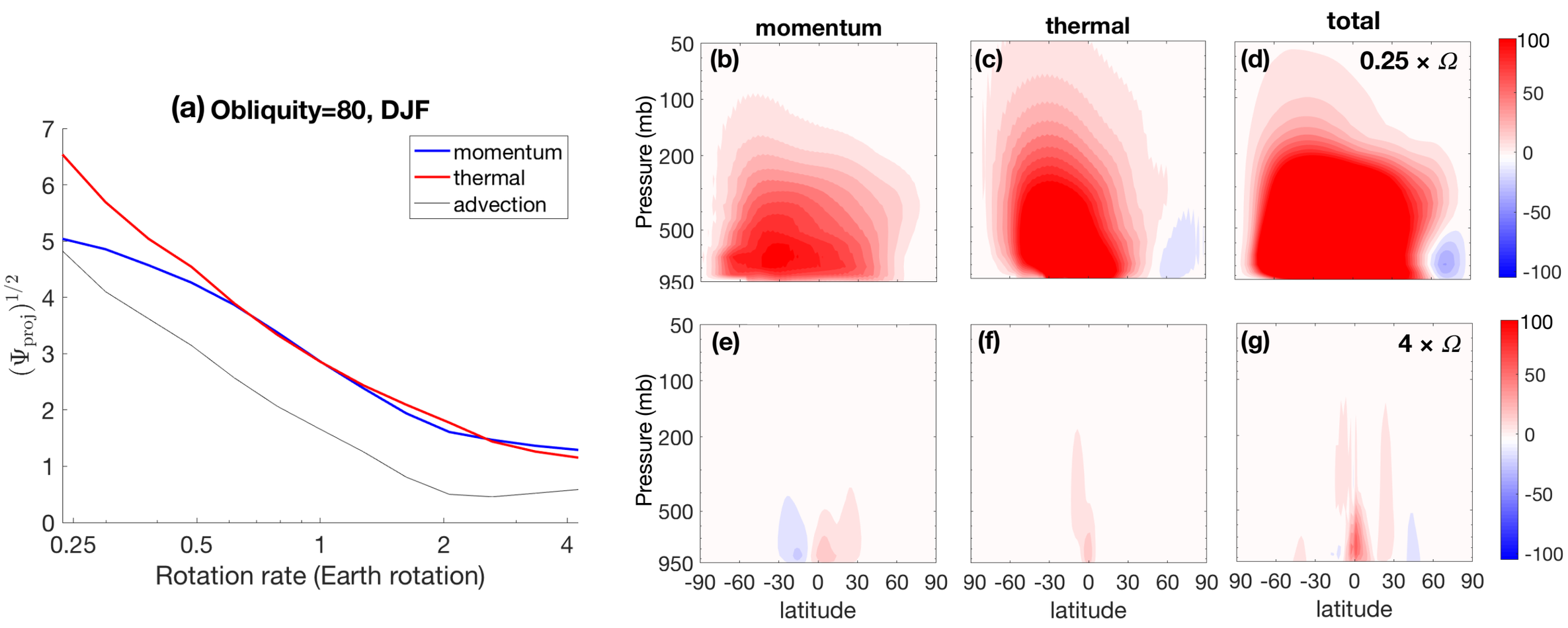


Fig. S7

Same as Fig. 6 in the main text, except that the circulation is decomposed into momentum driven and thermal driven.

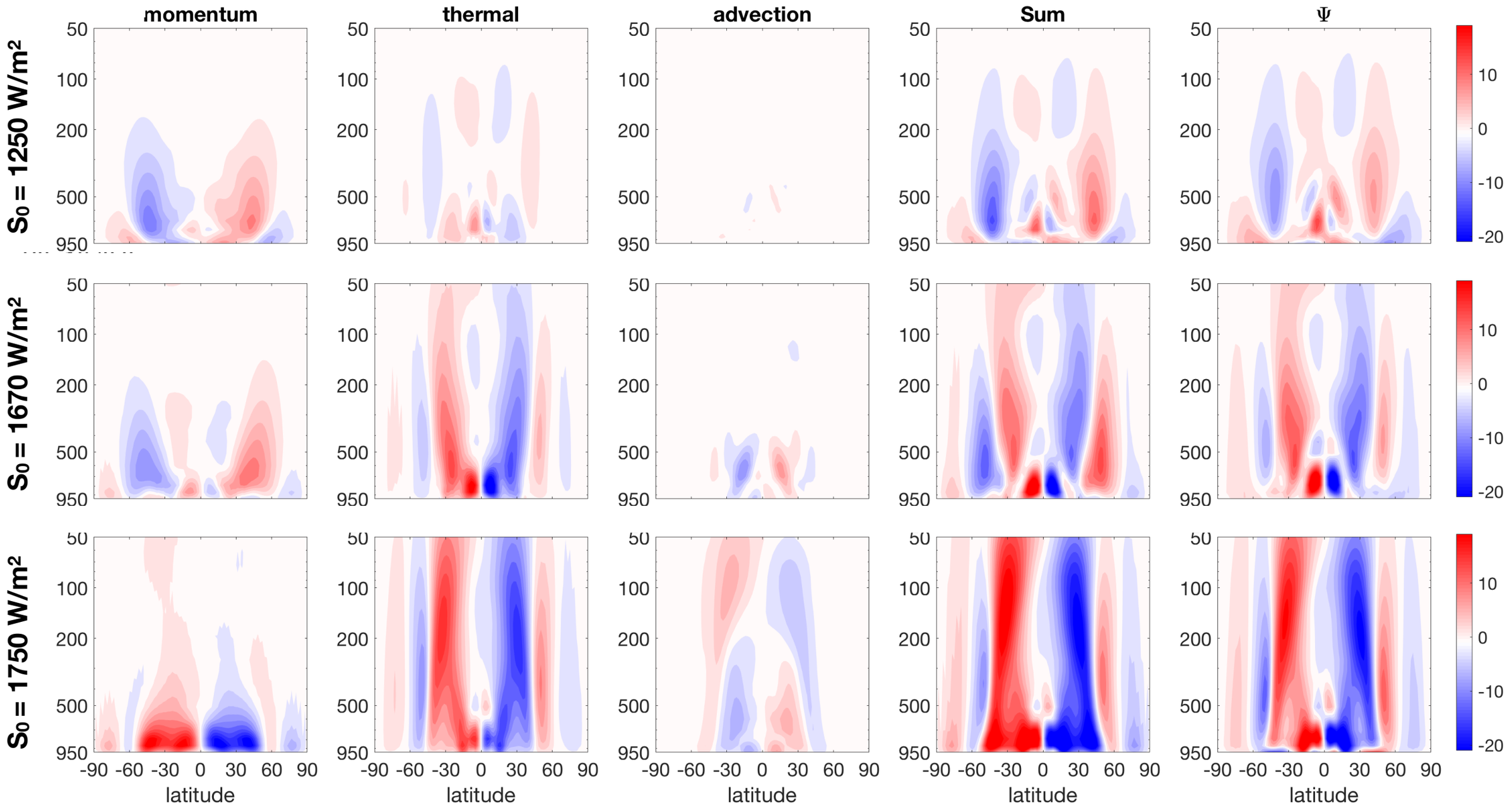


Fig. S8

The complete decomposition for the momentum versus thermal decomposition for the annual mean circulation in OBL80-S. From top to bottom shown are for 1250 W/m², 1670 W/m² and 1750 W/m² insolation. From left to right are the momentum driven circulation forced by surface friction and eddy momentum transport, thermally driven circulation forced by diabatic heating and eddy heat transport, the advective component forced by Eq. 4 in the main text, the sum of the three, and the diagnosed meridional circulation.

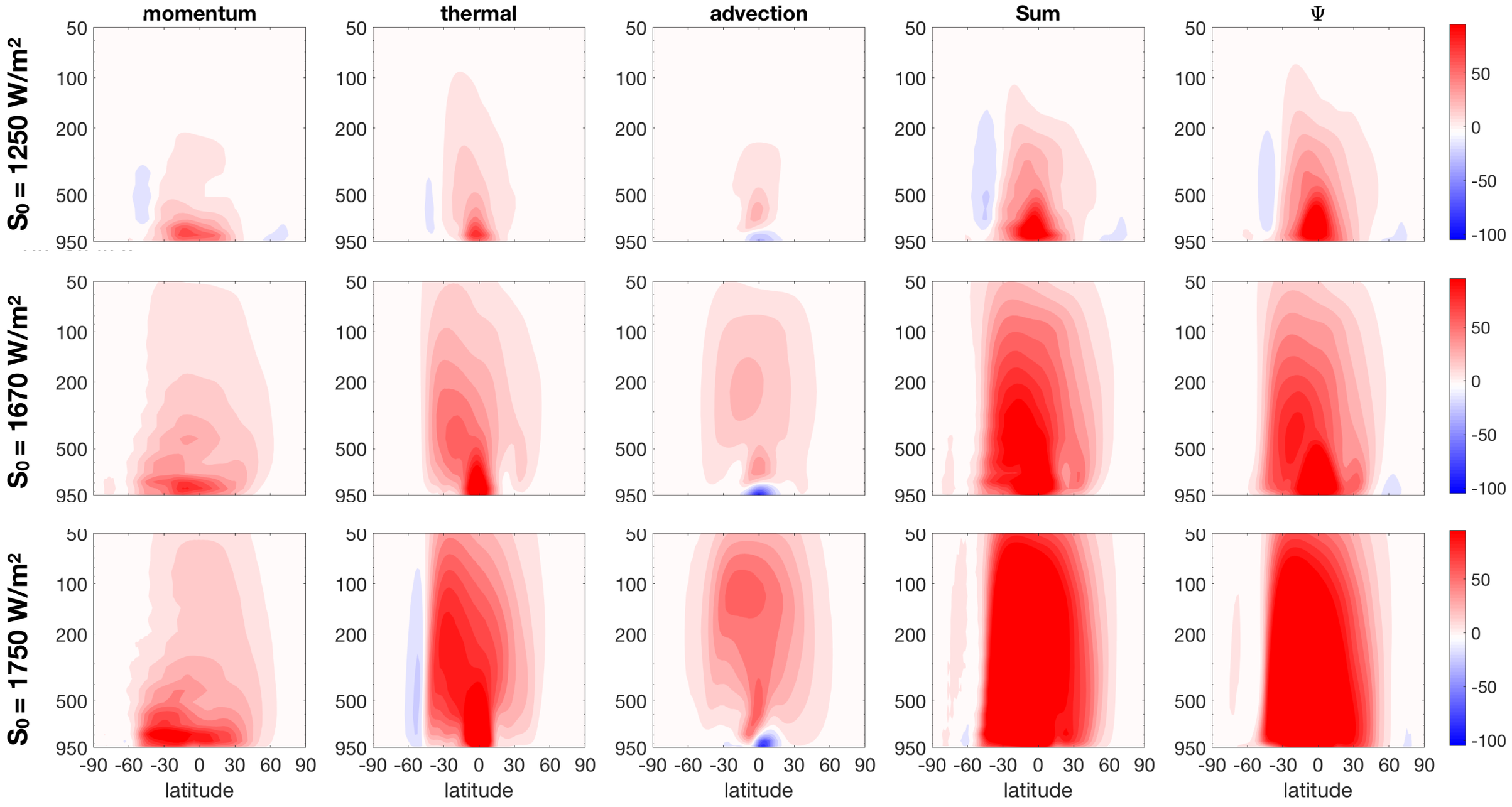


Fig. S9
Same as Fig. S8, but for the DJF circulation in OBL80-S.

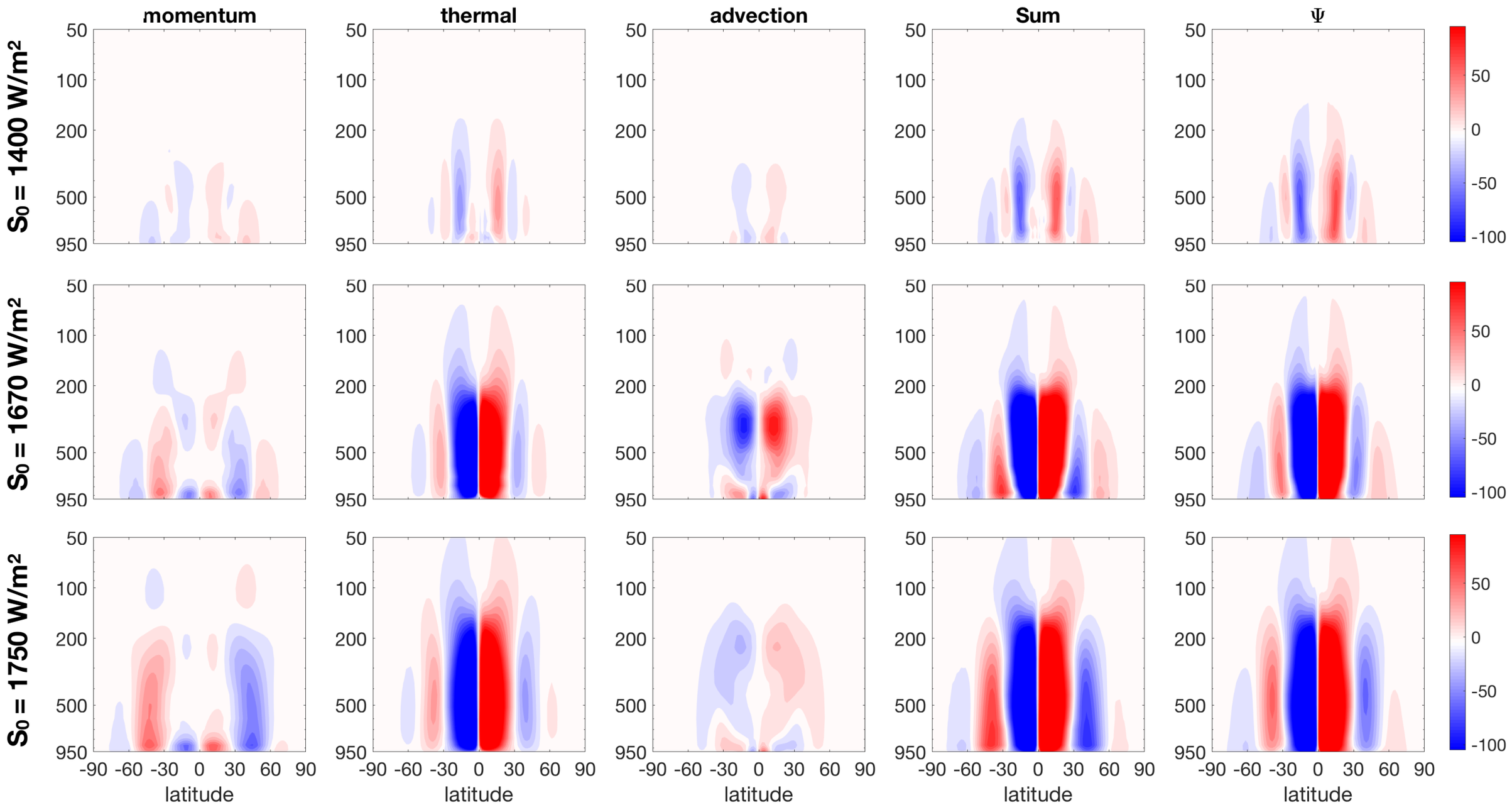


Fig. S10

Same as Fig. S8, but for the annual mean circulation in OBL0-S.

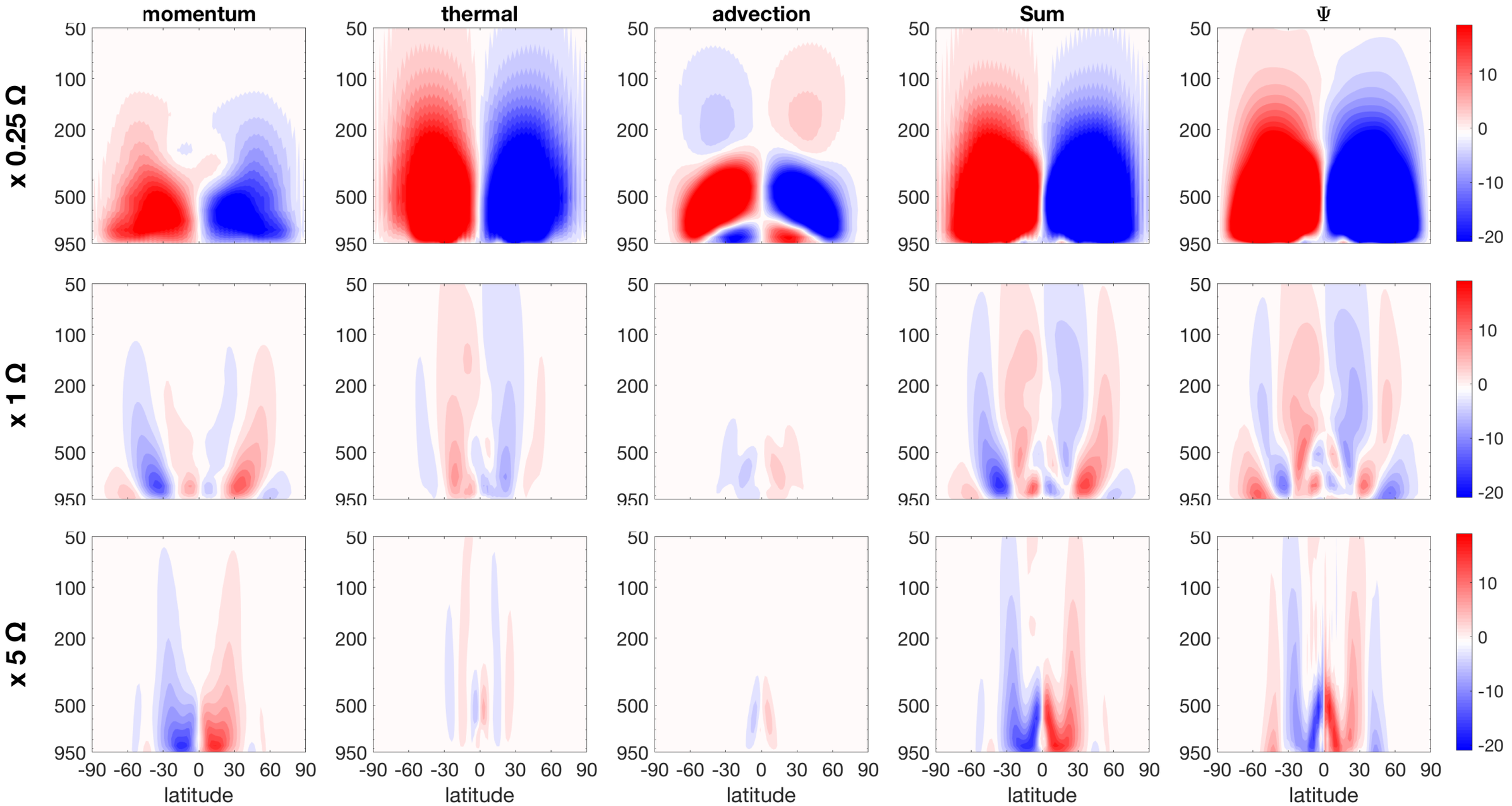


Fig. S11

Same as Fig. S8, but for the annual mean circulation in the rotation varying experiment, OBL80-Ω.

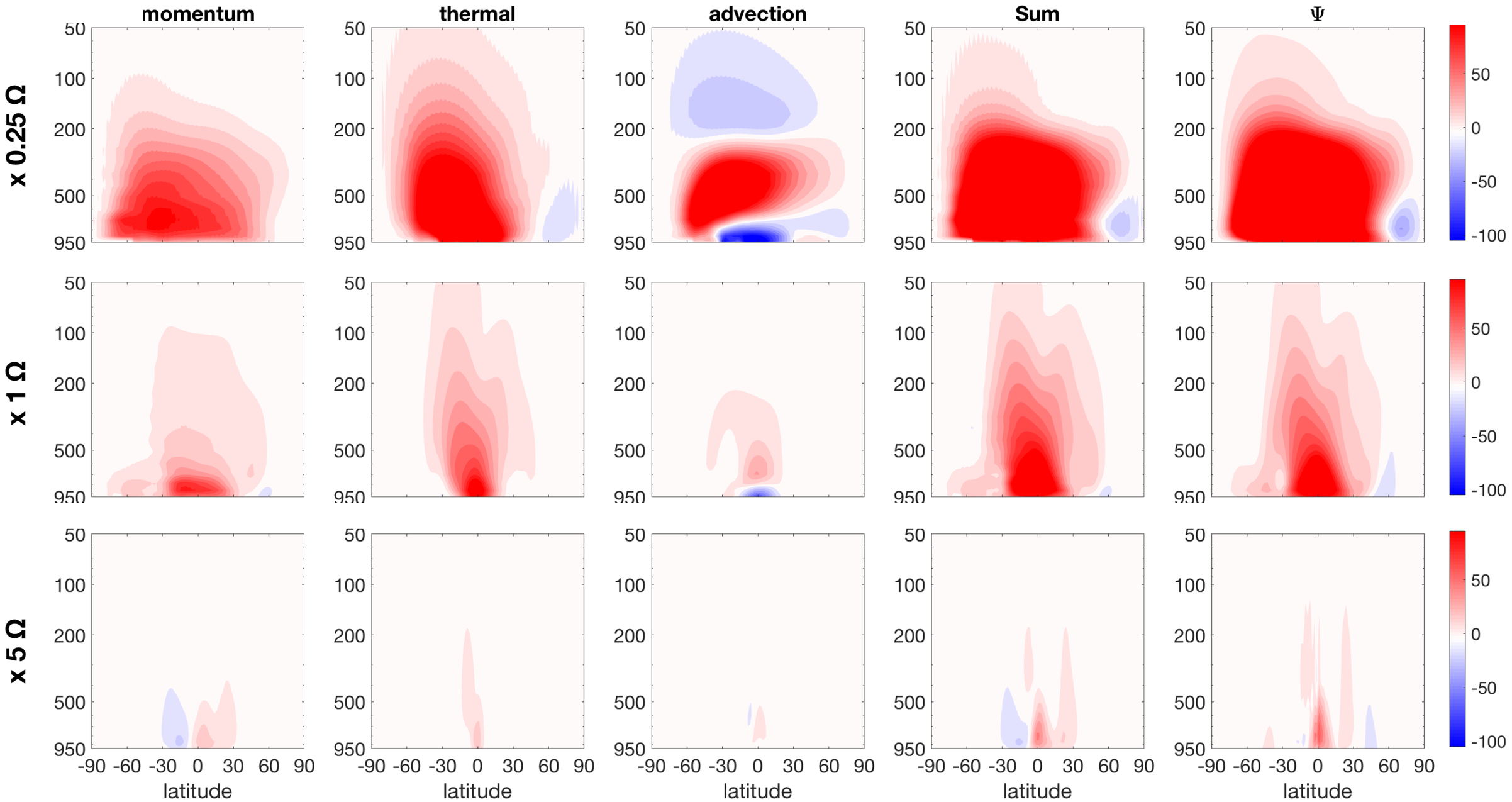


Fig. S12

Same as Fig. S9, but for the annual mean circulation in the rotation varying experiment, OBL80-Ω.

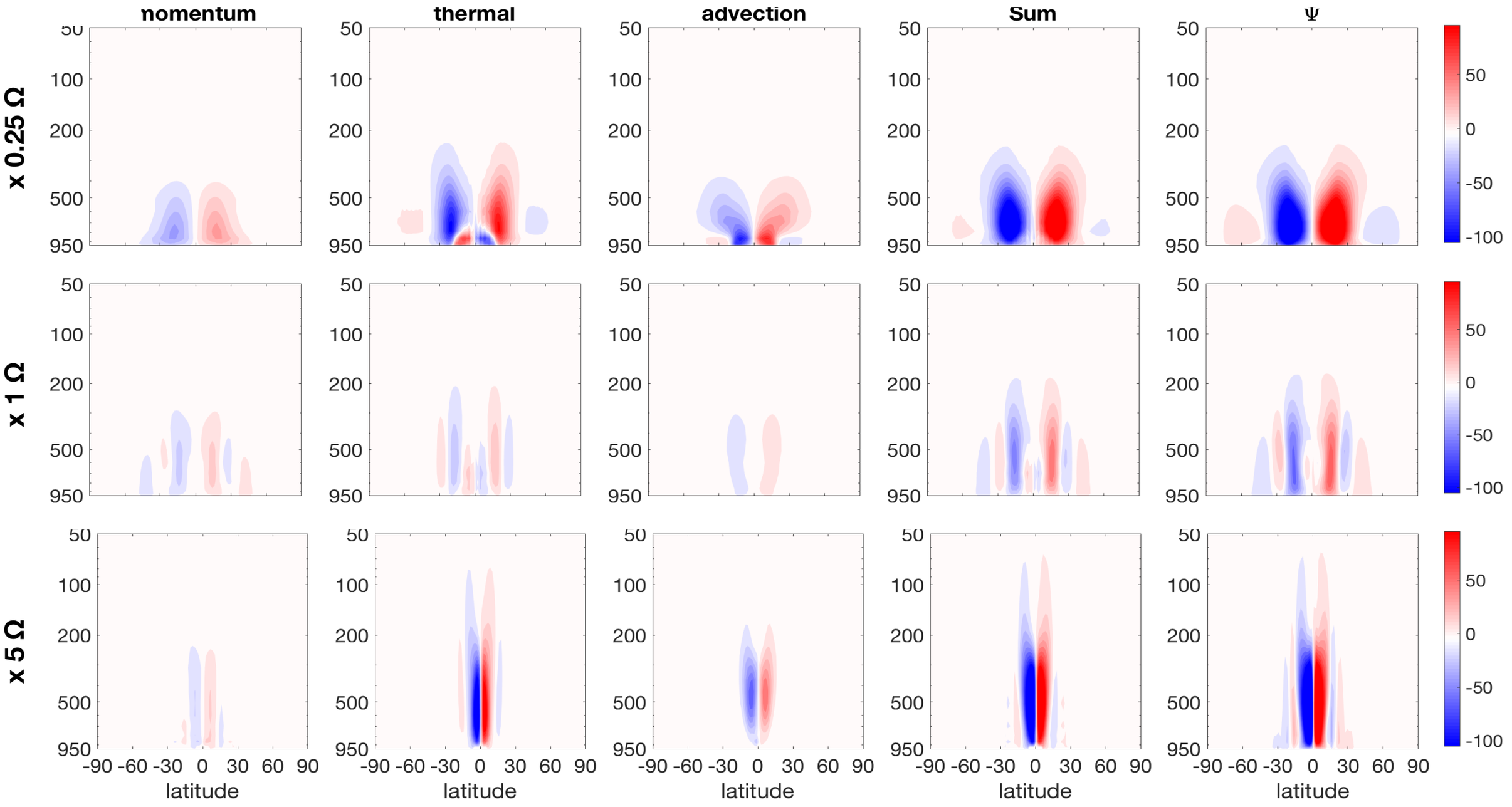


Fig. S13

Same as Fig. S10, but for the annual mean circulation in the rotation varying experiment OBL0-Ω.