



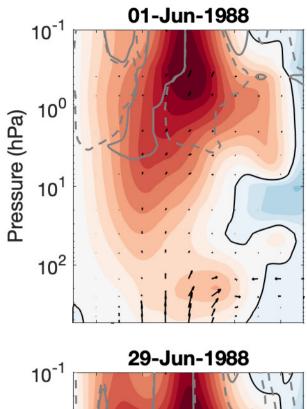
## Supplement of

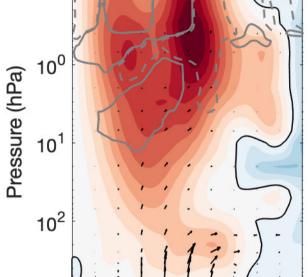
## Does the coupling of the semiannual oscillation with the quasi-biennial oscillation provide predictability of Antarctic sudden stratospheric warmings?

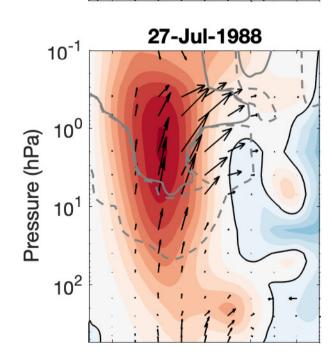
Viktoria J. Nordström and Annika Seppälä

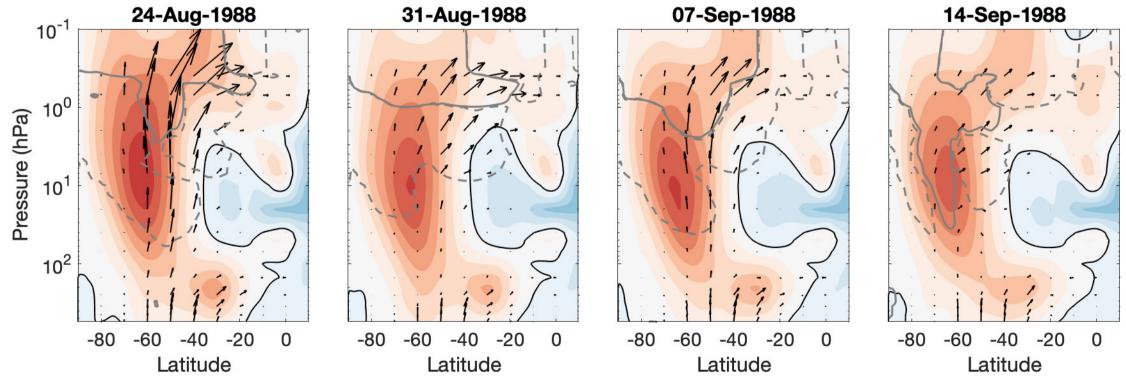
Correspondence to: Annika Seppälä (annika.seppala@otago.ac.nz)

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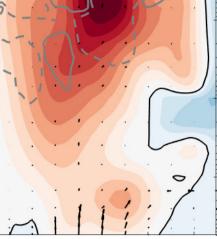




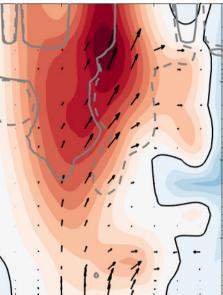




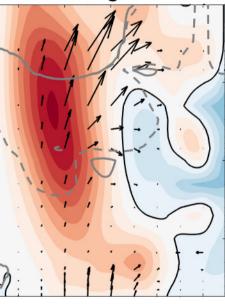
08-Jun-1988

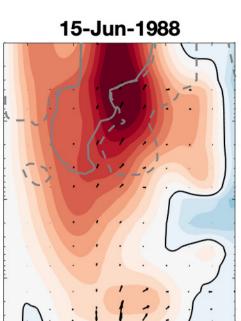


06-Jul-1988

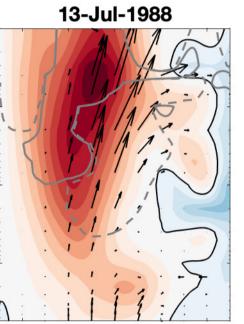


## 03-Aug-1988

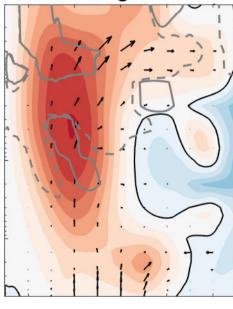




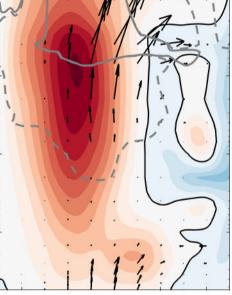
22-Jun-1988



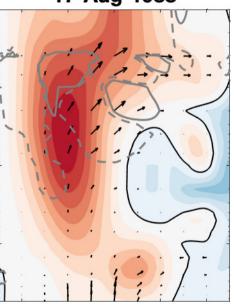
10-Aug-1988

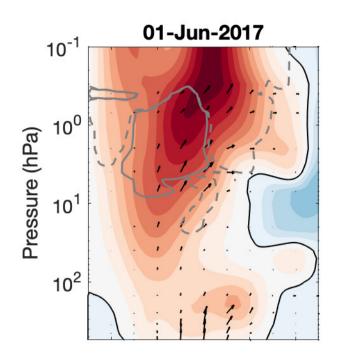


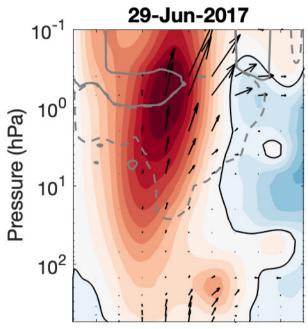
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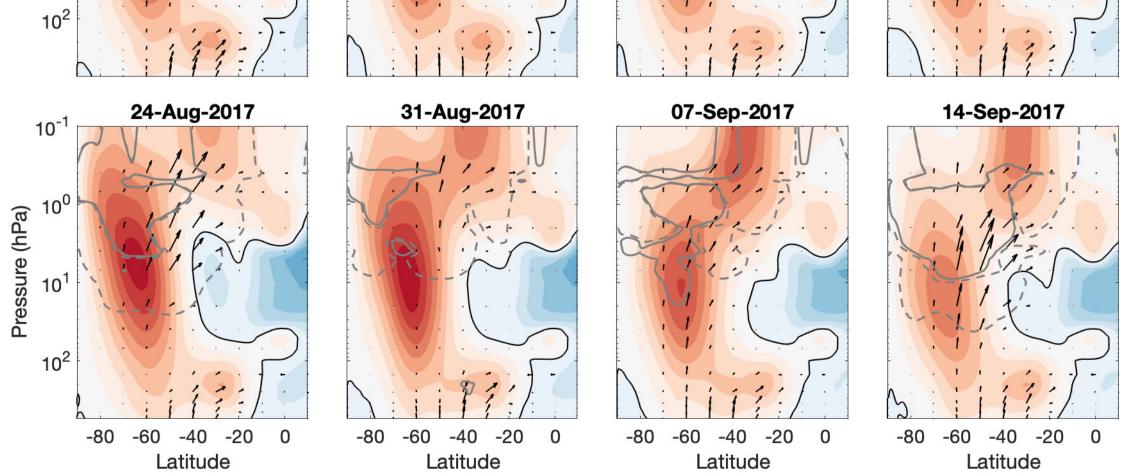
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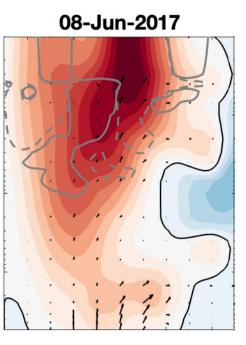




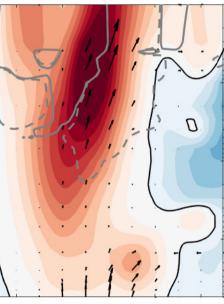


27-Jul-2017 10<sup>-1</sup> 10<sup>0</sup> Pressure (hPa) 10<sup>1</sup>

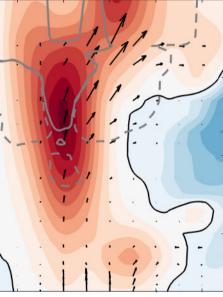




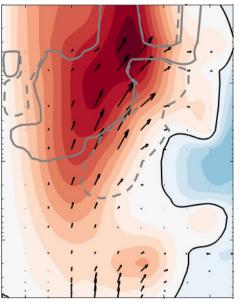
06-Jul-2017



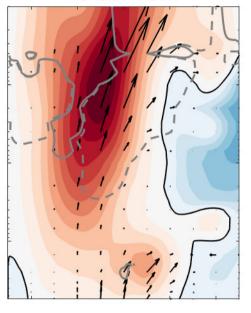
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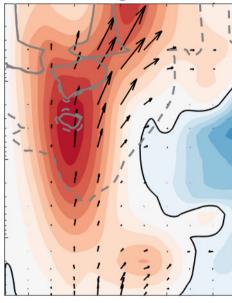




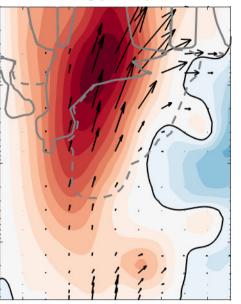
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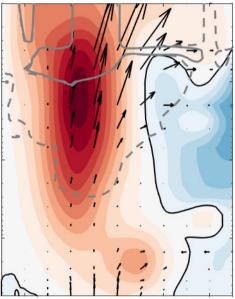
10-Aug-2017



22-Jun-2017



20-Jul-2017



17-Aug-2017

