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## Supplement of

## Effects of denitrification on the distributions of trace gas abundances in the polar regions: a comparison of WACCM with observations

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: 1

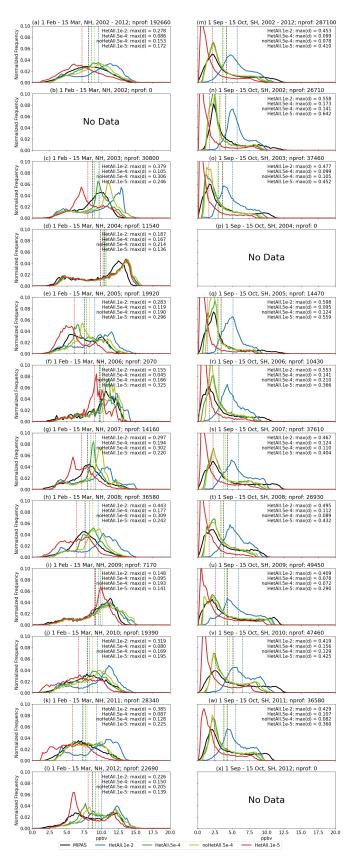


Figure S1. Same as Fig. 3 (HNO<sub>3</sub>) of the main manuscript, but showing all individual years.

2

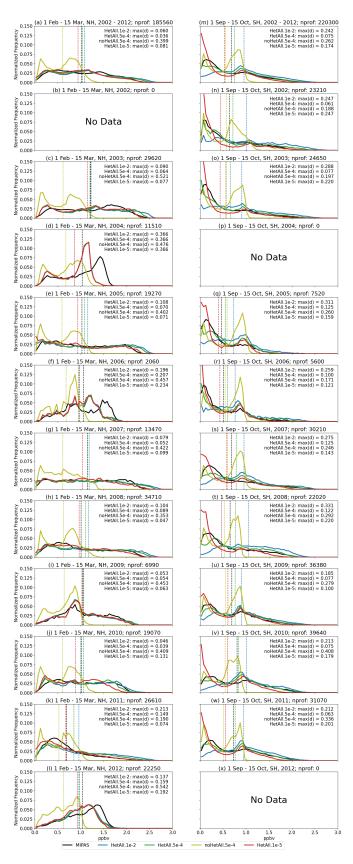


Figure S2. Same as Fig. 5 (ClONO<sub>2</sub>) of the main manuscript, but showing all individual years.

3

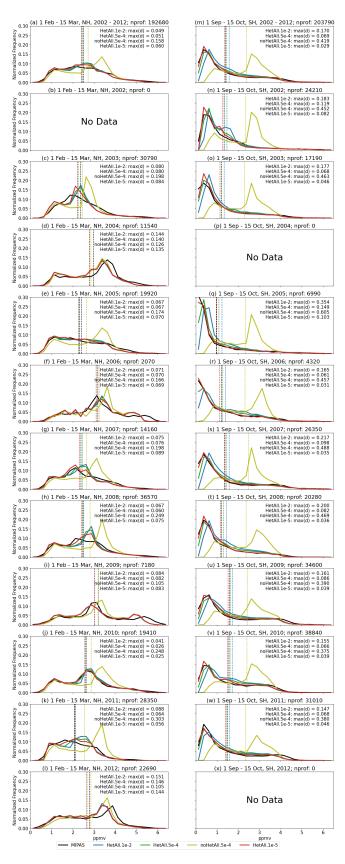


Figure S3. Same as Fig.  $6 (O_3)$  of the main manuscript, but showing all individual years.

4

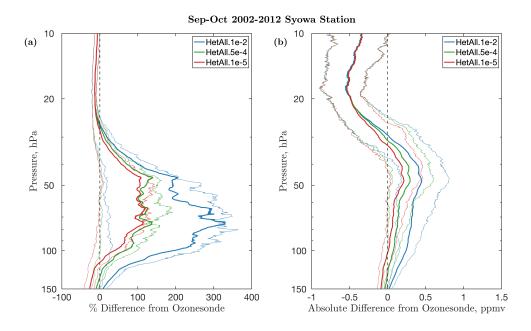


Figure S4. Same as Fig. 7 b and c for ozone of the main manuscript, but showing Syowa Station without the noHetAll simulation.

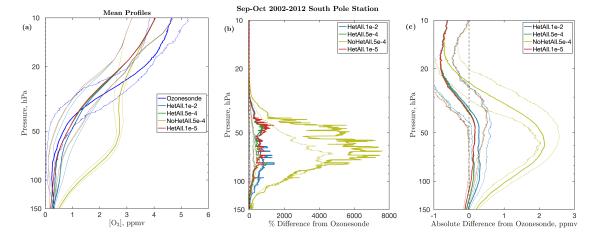


Figure S5. Same as Fig. 7 a to c for ozone of the main manuscript, but showing South Pole Station.