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Supplement of

Age of air from ACE-FTS measurements of sulfur hexafluoride

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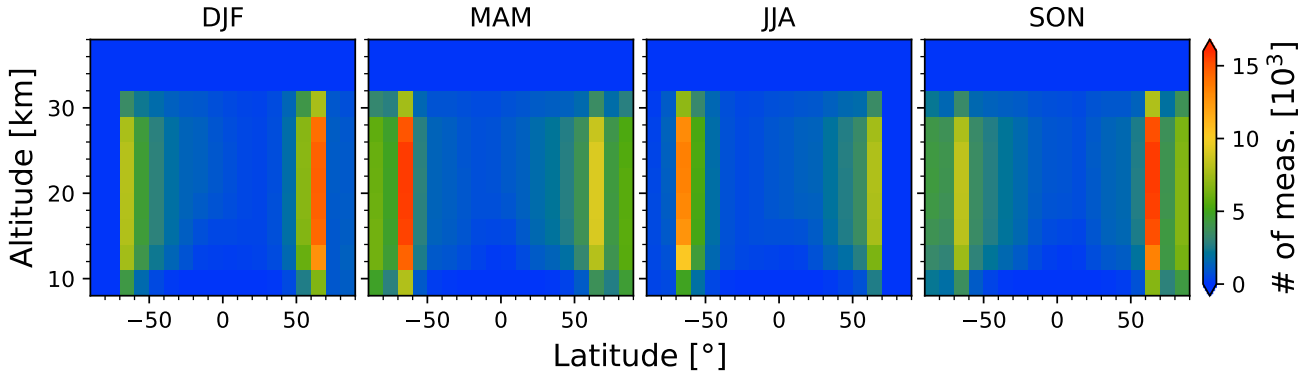

Figure S1. Number of measurements used to calculate age of air in Fig. 5 in the main text.

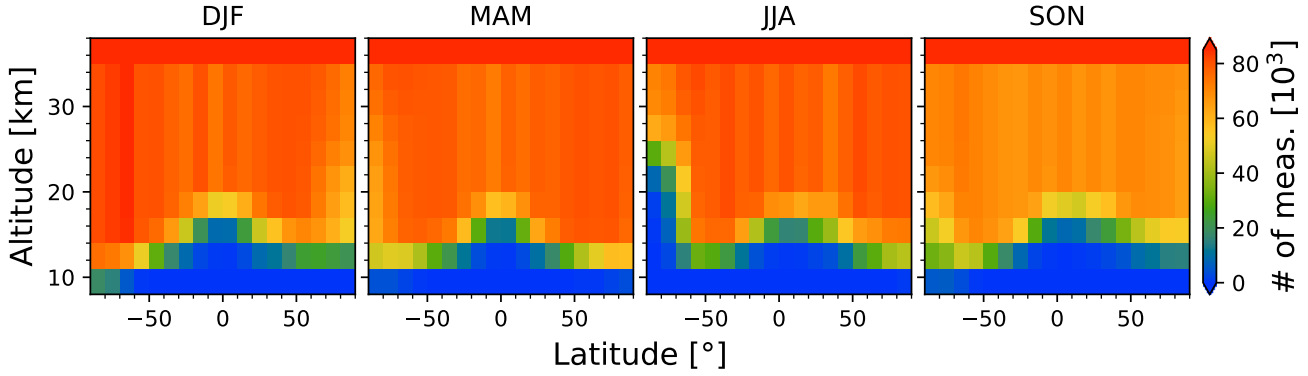

Figure S2. Number of measurements used to calculate age of air in Fig. 6 in the main text

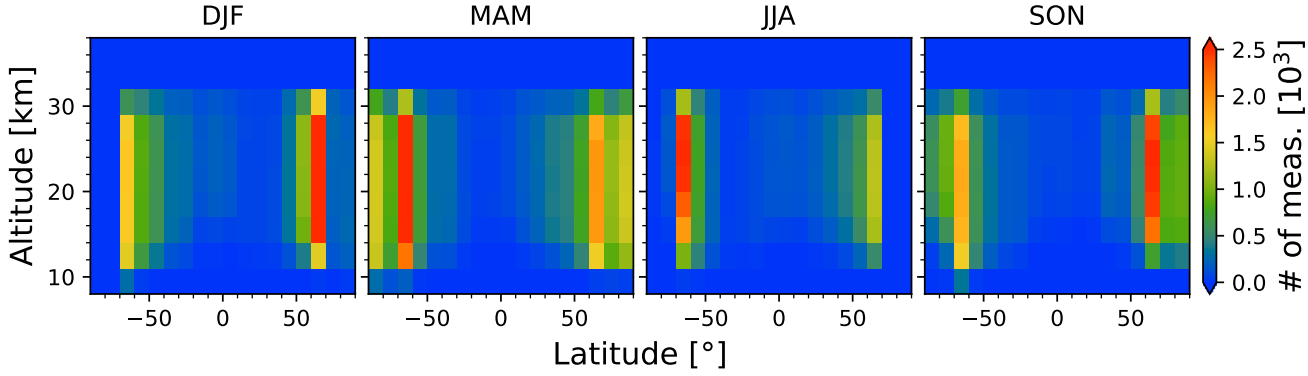

Figure S3. Number of measurements used to calculage age of air in Figs. 7 and 8 in the main text.

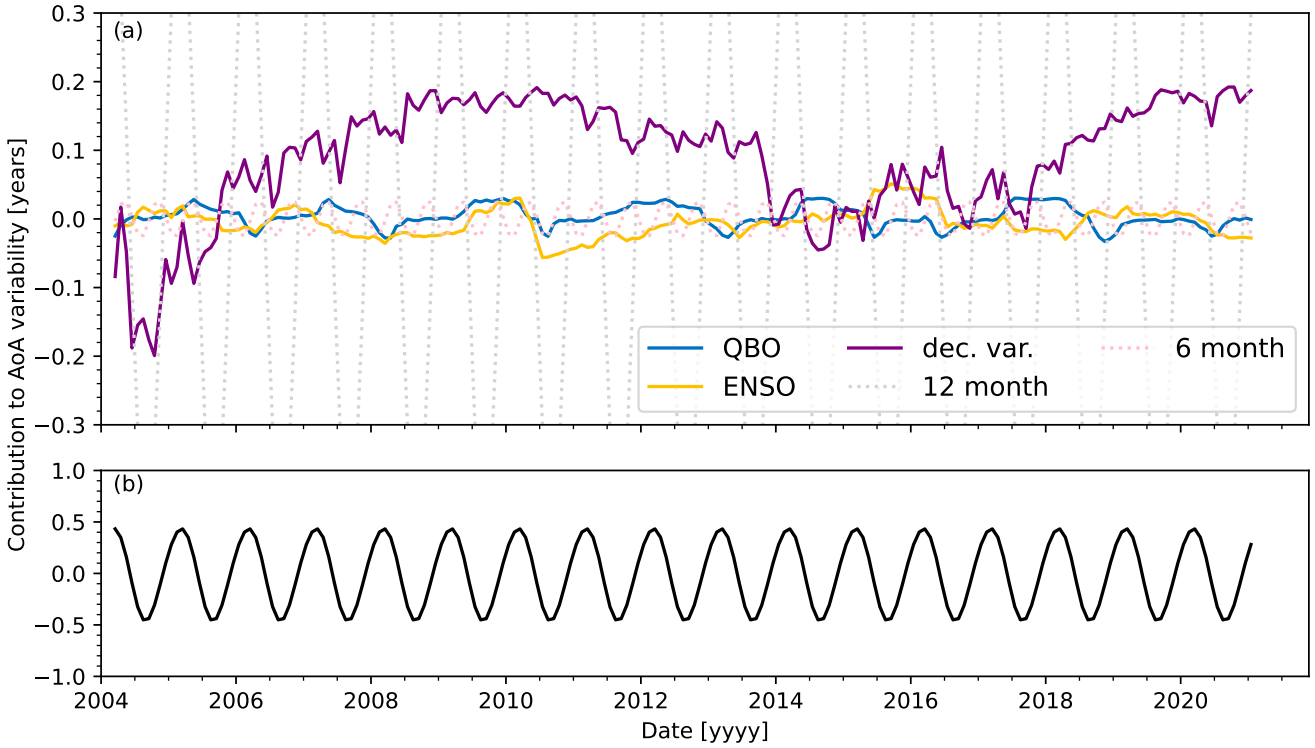

Figure S4. (a) The contribution (in years) of each type of interannual variability to the fitted age of air for 40-50°N, 14-17 km. (b) The total contribution of the 12- and 6-month seasonal cycles

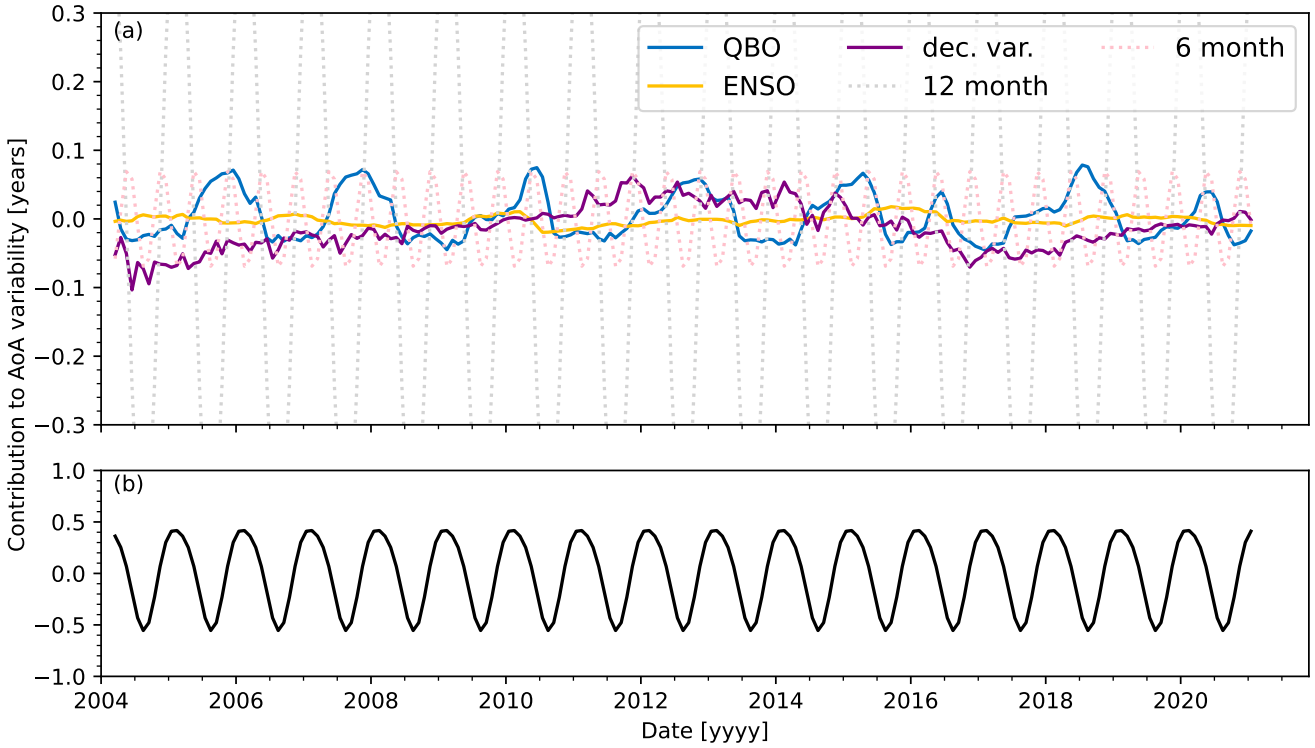

Figure S5. Same as Fig. S4 but for 40-50°N, 17-20 km.

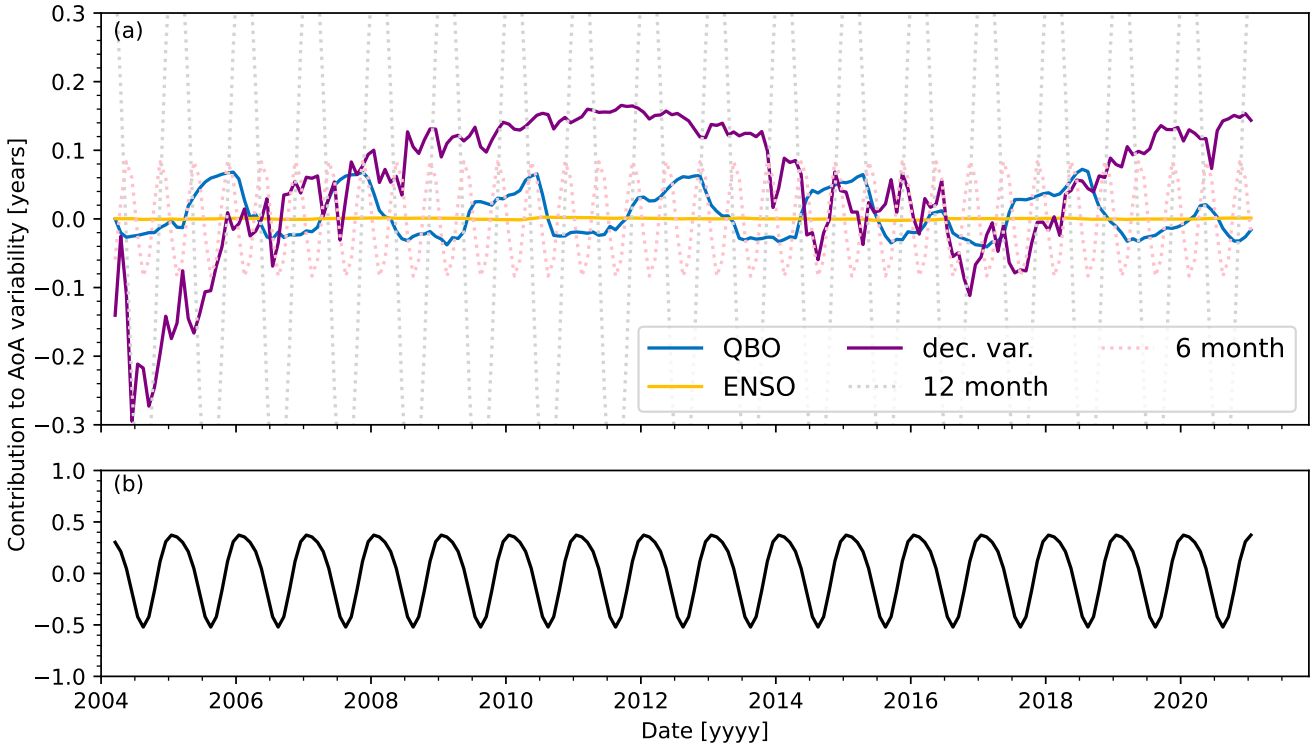

Figure S6. Same as Fig. S4 but for 50-60°N, 14-17 km.

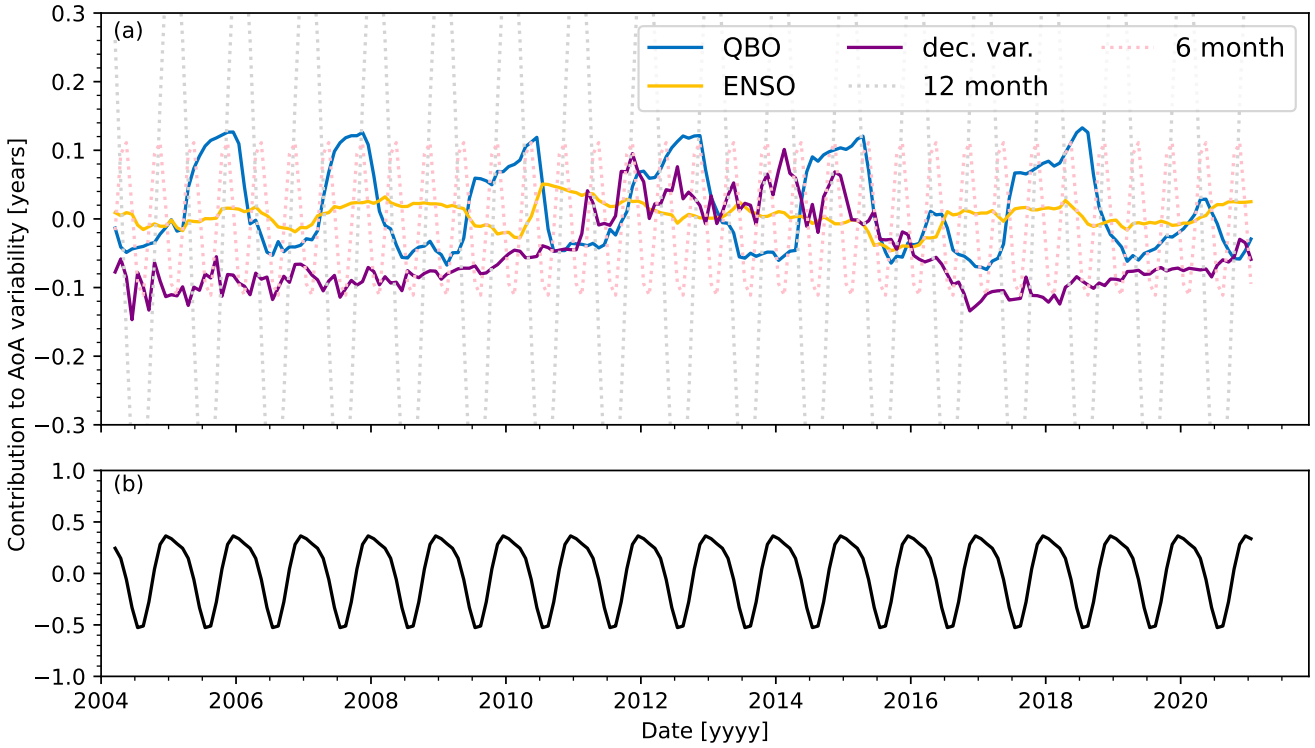

Figure S7. Same as Fig. S4 but for 50-60°N, 17-20 km.

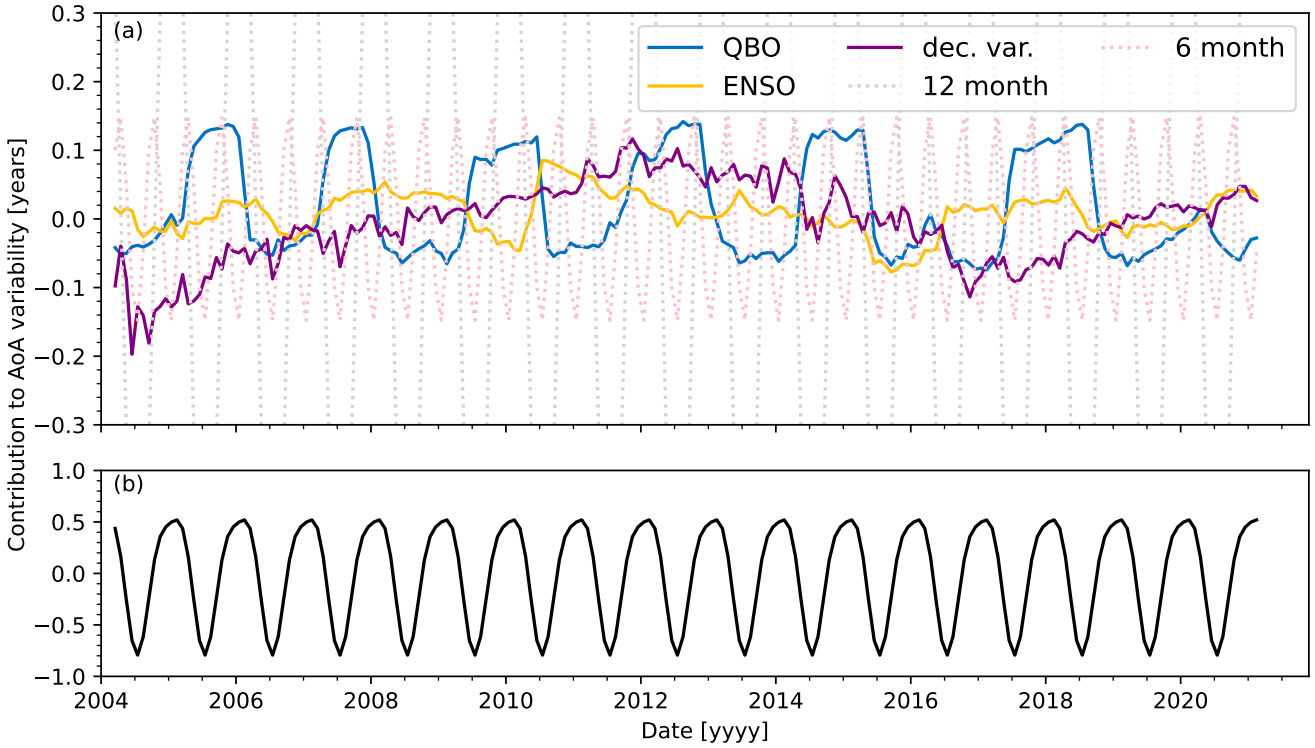

Figure S8. Same as Fig. S4 but for 60-70°N, 17-20 km.

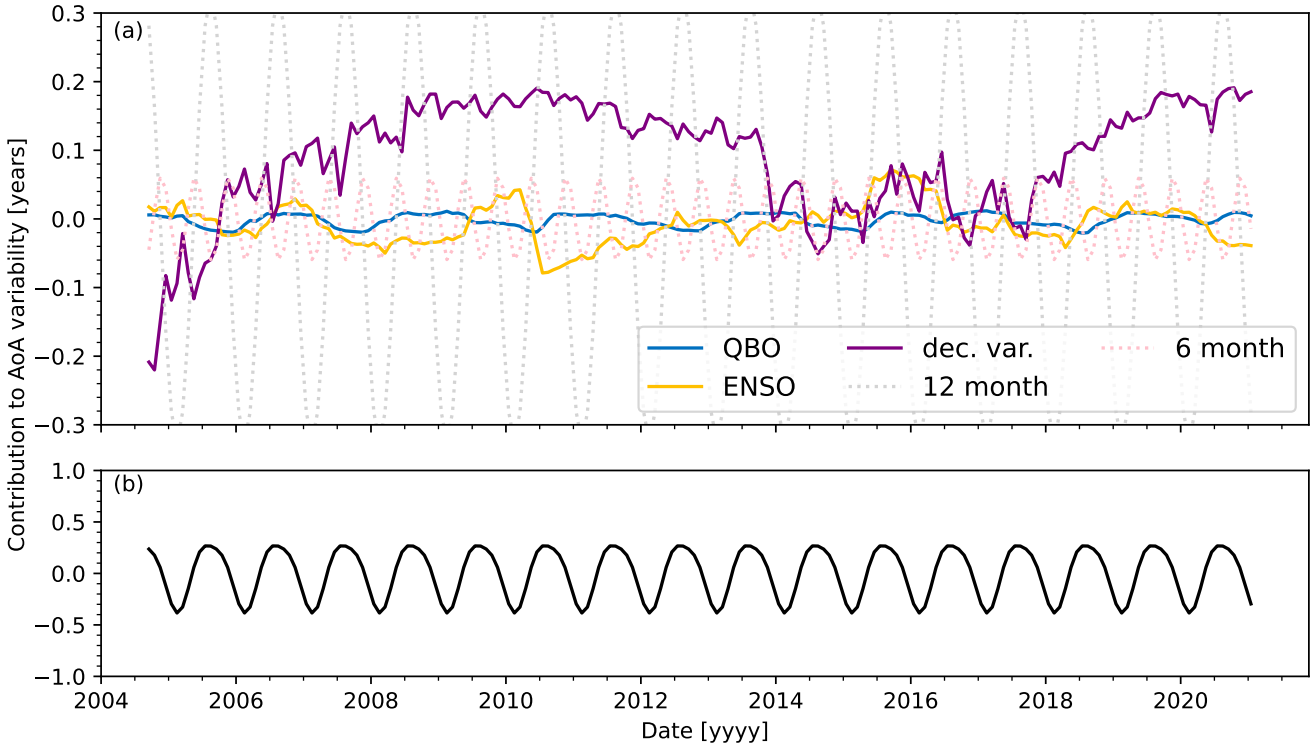

Figure S9. Same as Fig. S4 but for 40-50°S, 14-17 km.

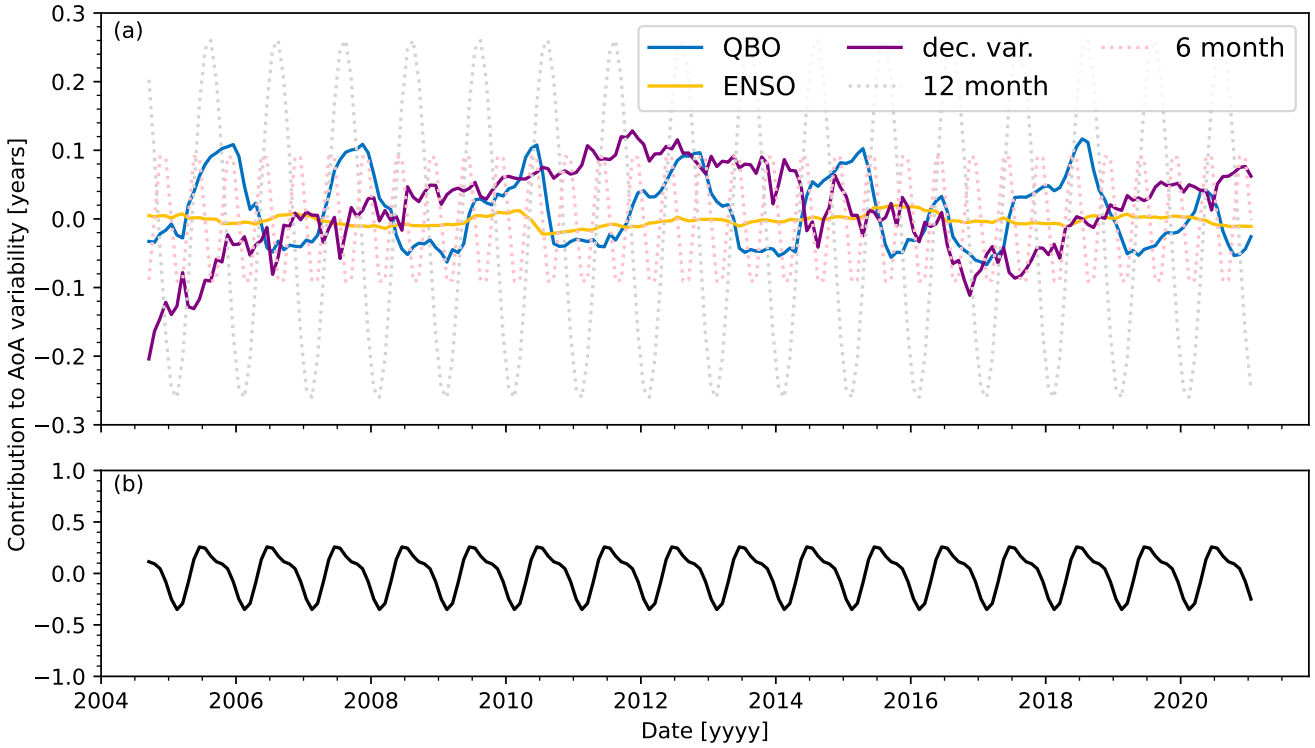

Figure S10. Same as Fig. S4 but for 40-50°S, 17-20 km.

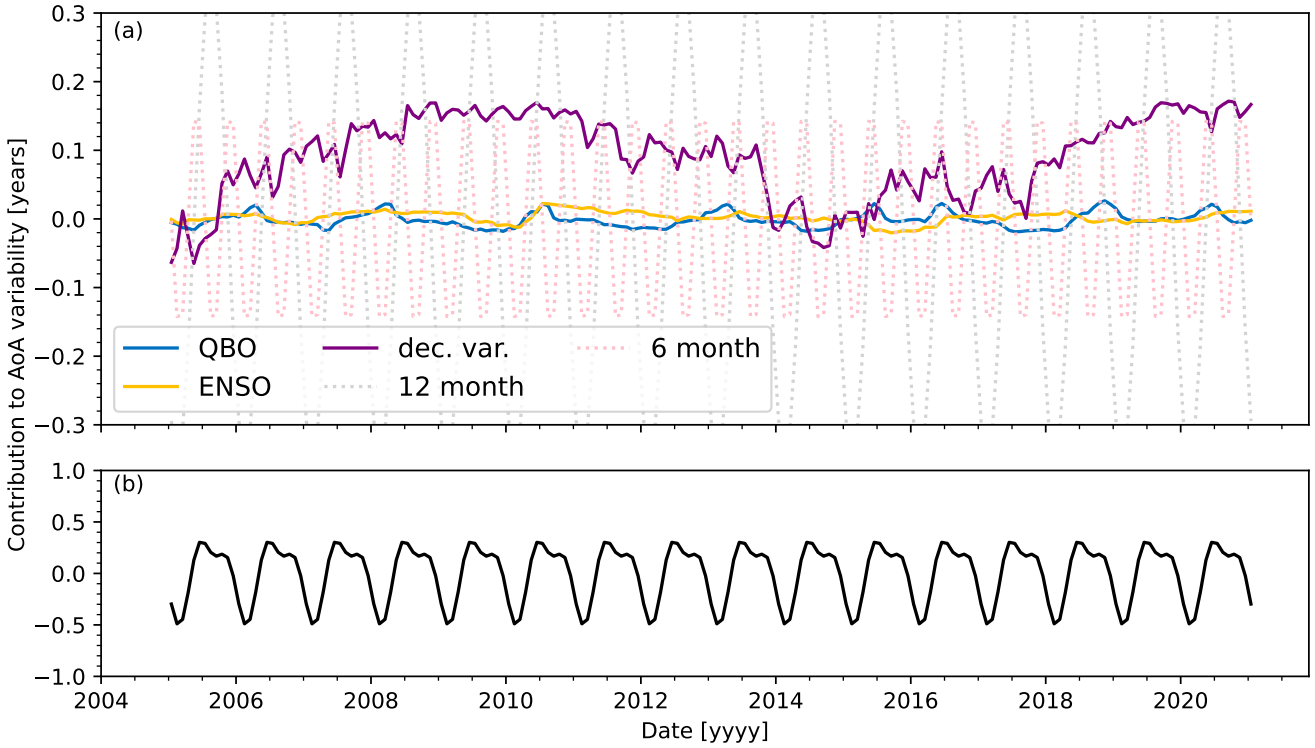

Figure S11. Same as Fig. S4 but for 50-60°S, 14-17 km.

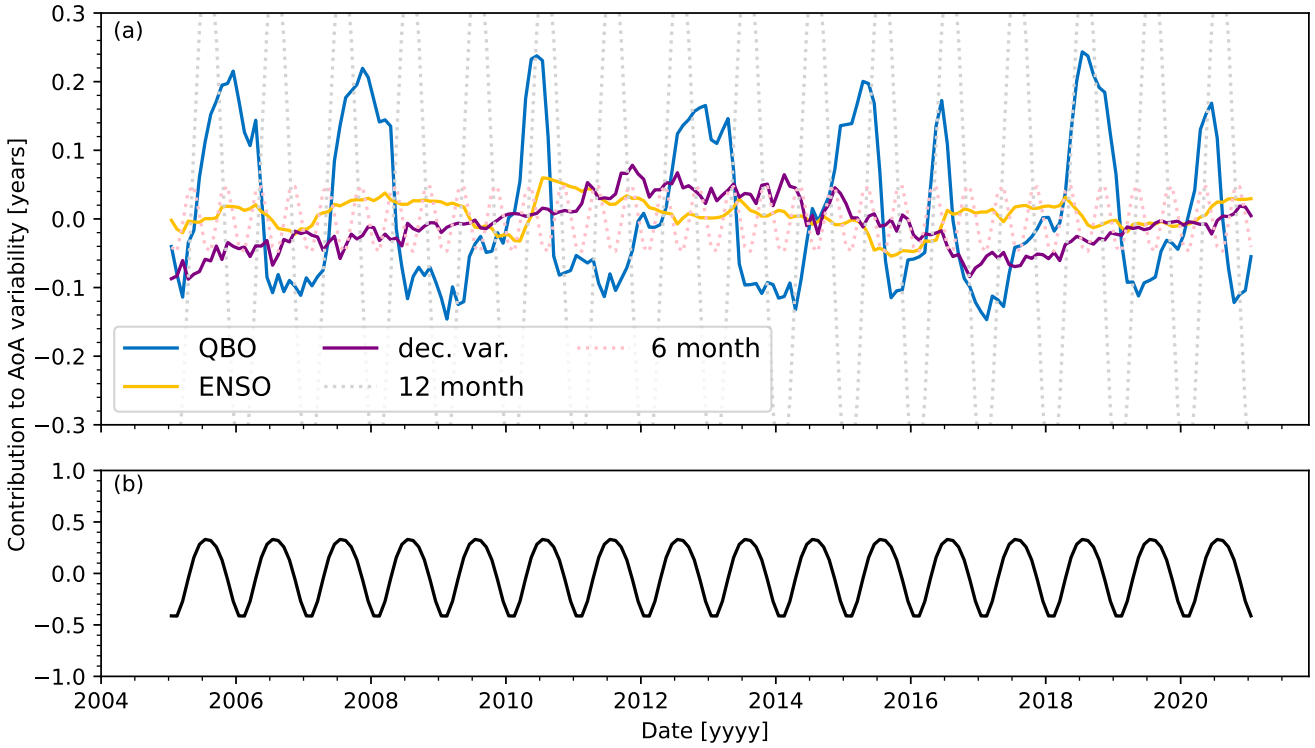

Figure S12. Same as Fig. S4 but for 50-60°S, 17-20 km.

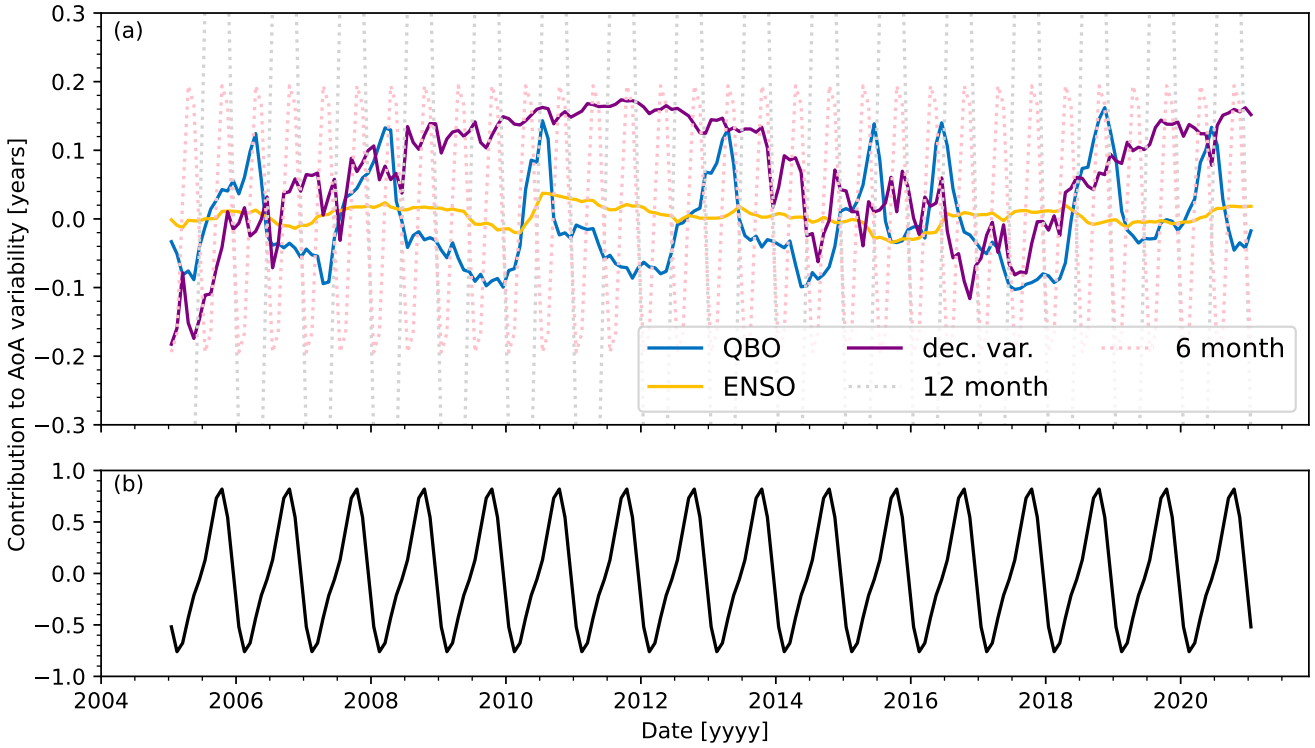

Figure S13. Same as Fig. S4 but for 60-70°S, 14-17 km.

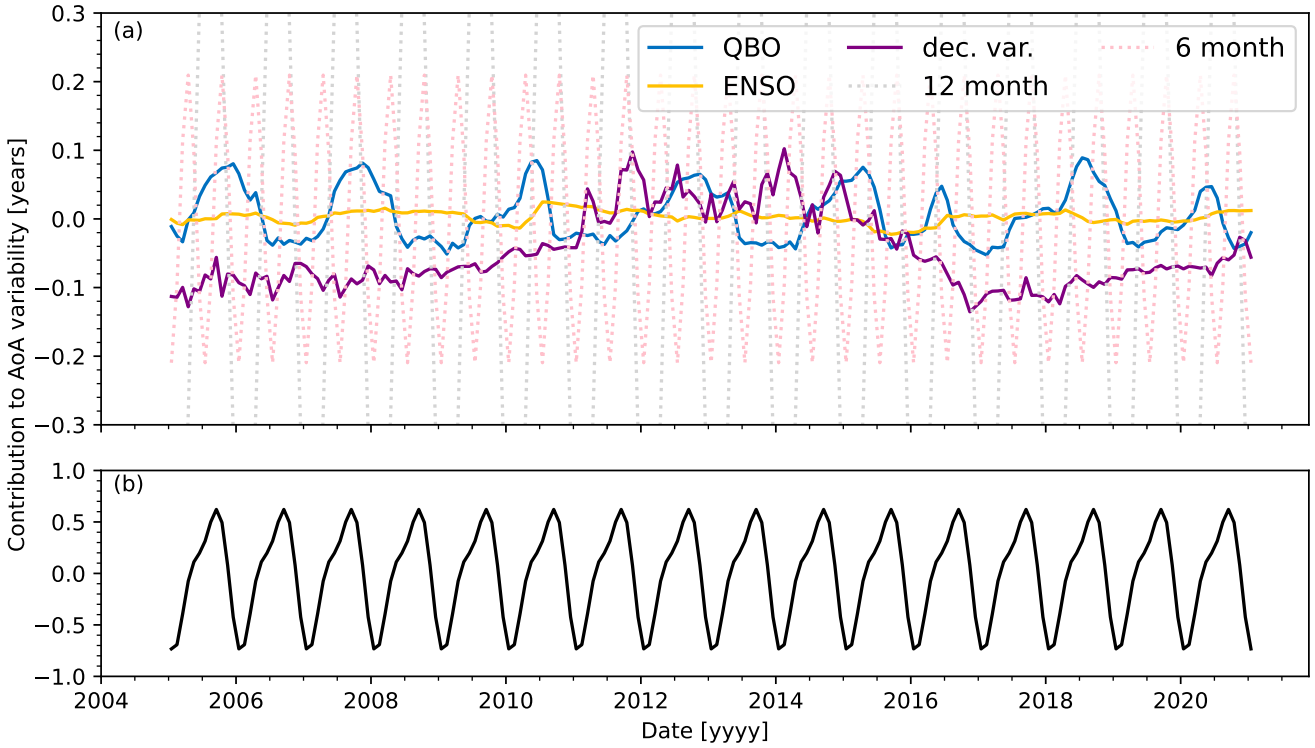

Figure S14. Same as Fig. S4 but for 60-70°S, 17-20 km.