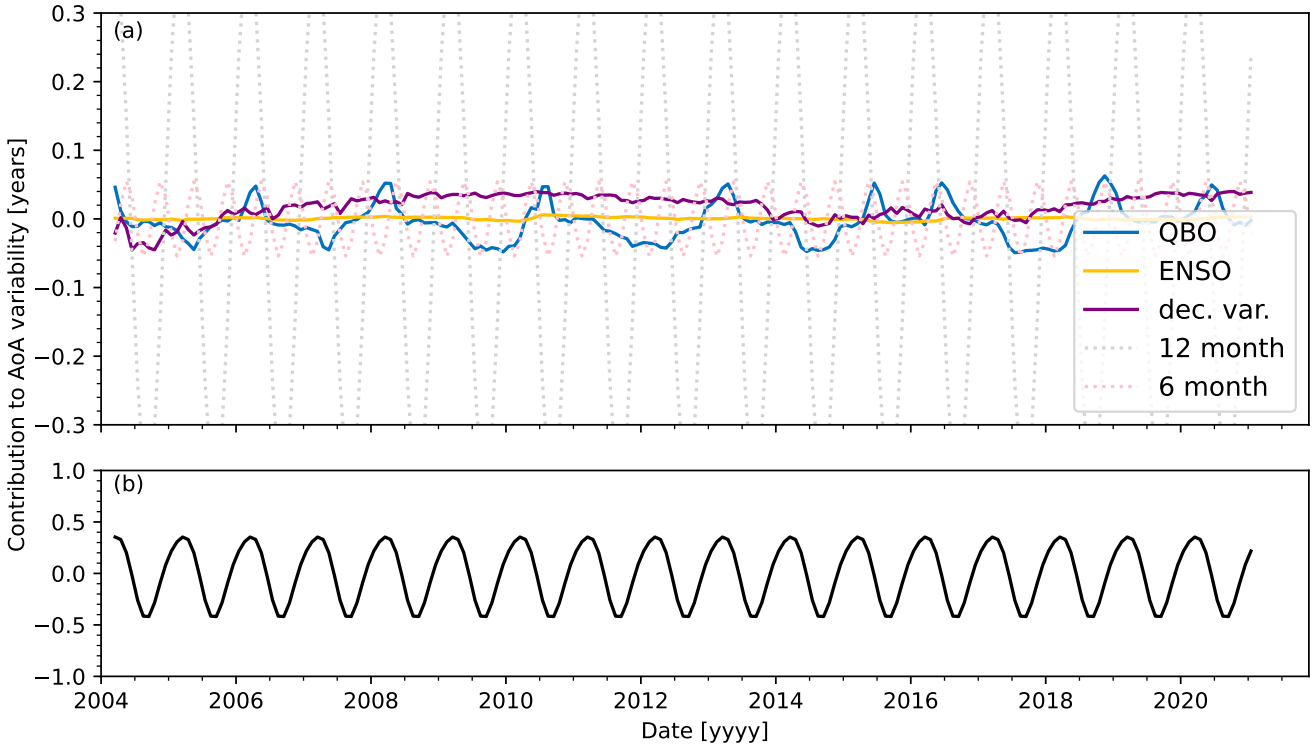

Figure S1. (a) The contribution (in years) of each type of interannual variability to the fitted age of air for 40-50°N, 14-17 km. (b) The total contribution of the 12- and 6-month seasonal cycles

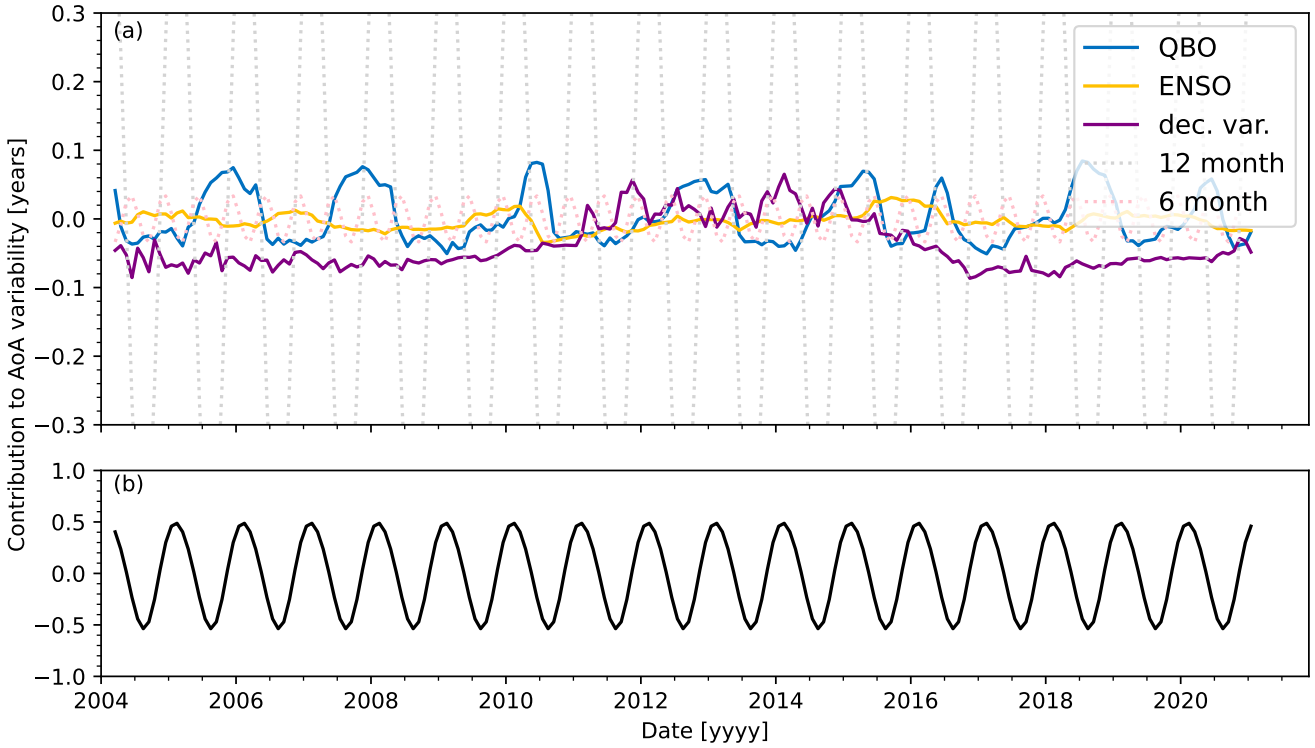

Figure S2. Same as Fig. S1 but for 40-50°N, 17-20 km.

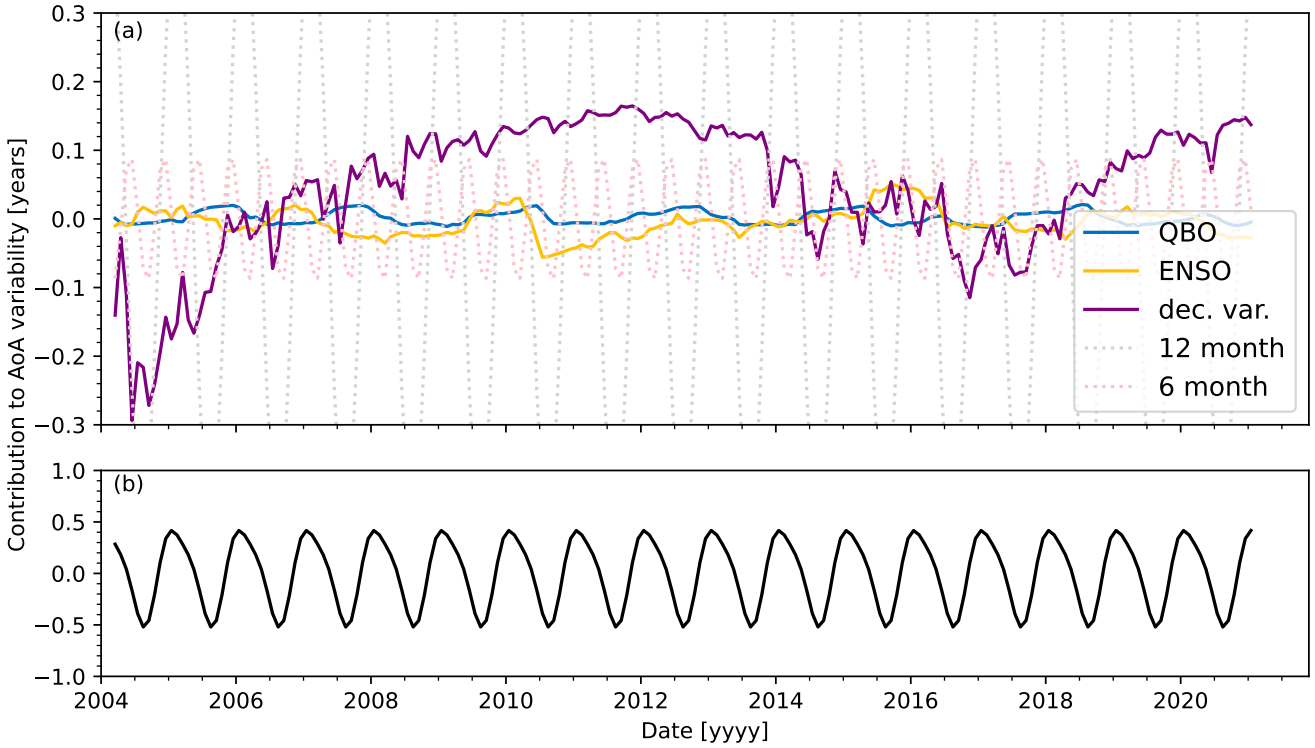

Figure S3. Same as Fig. S1 but for 50-60°N, 14-17 km.

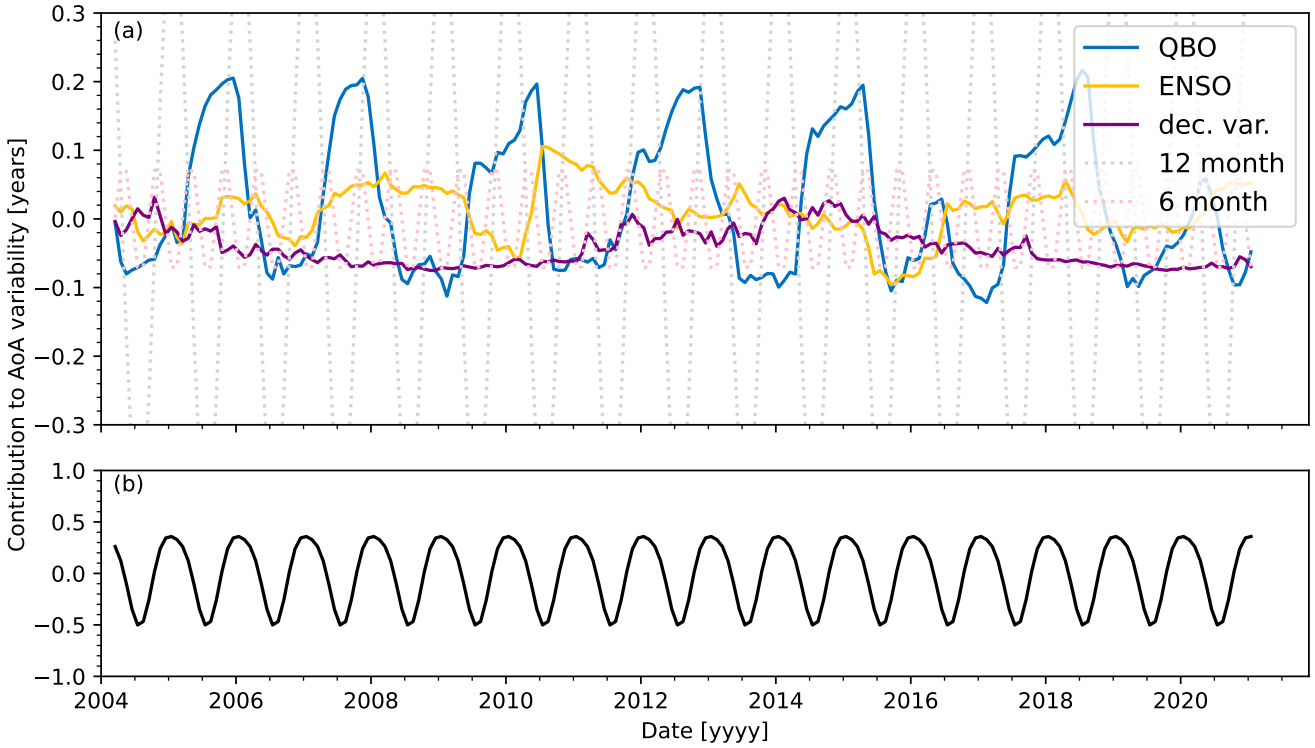

Figure S4. Same as Fig. S1 but for 50-60°N, 17-20 km.

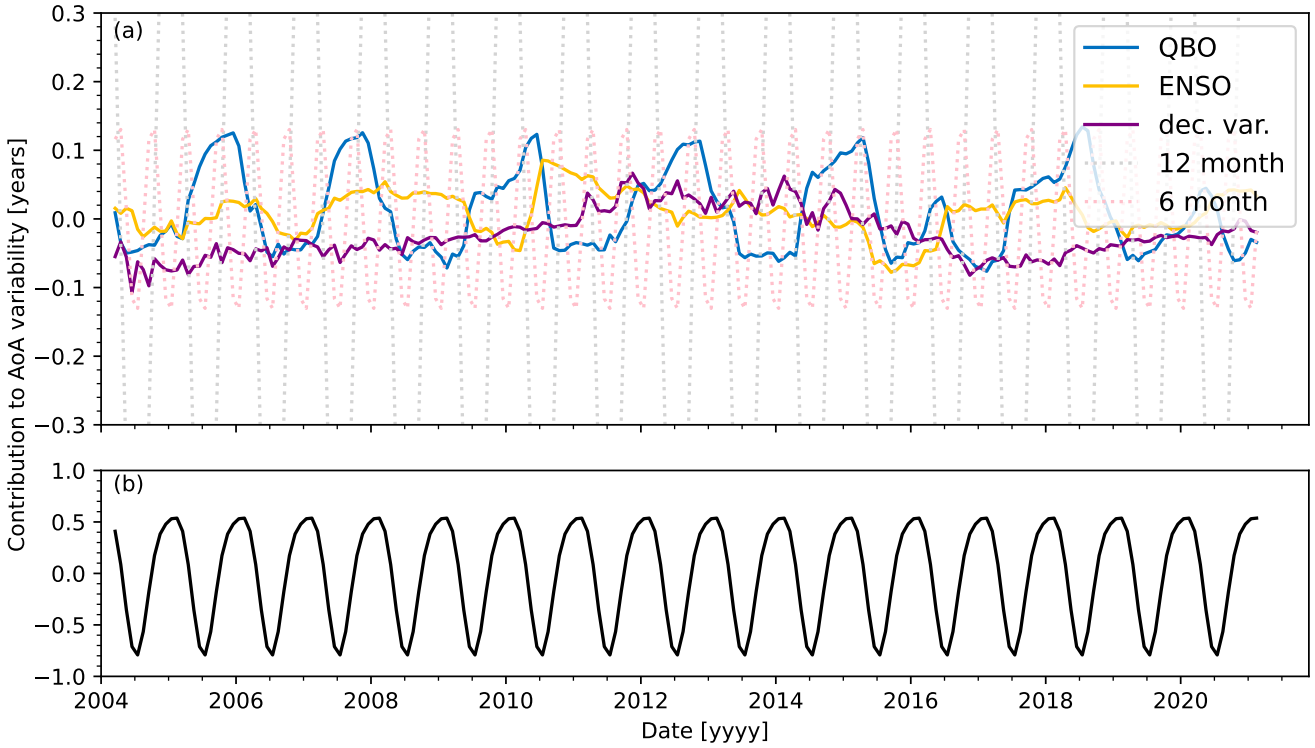

Figure S5. Same as Fig. S1 but for 60-70°N, 17-20 km.

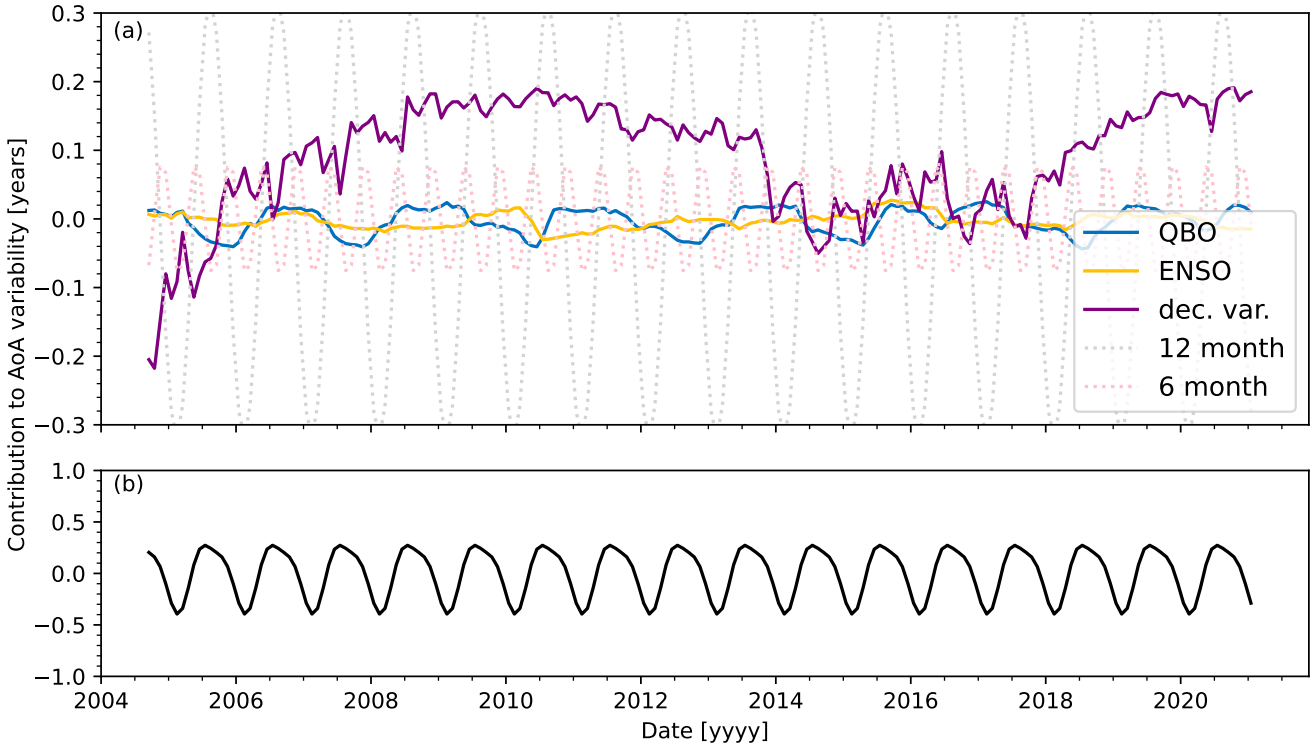

Figure S6. Same as Fig. S6 but for 40-50°S, 14-17 km.

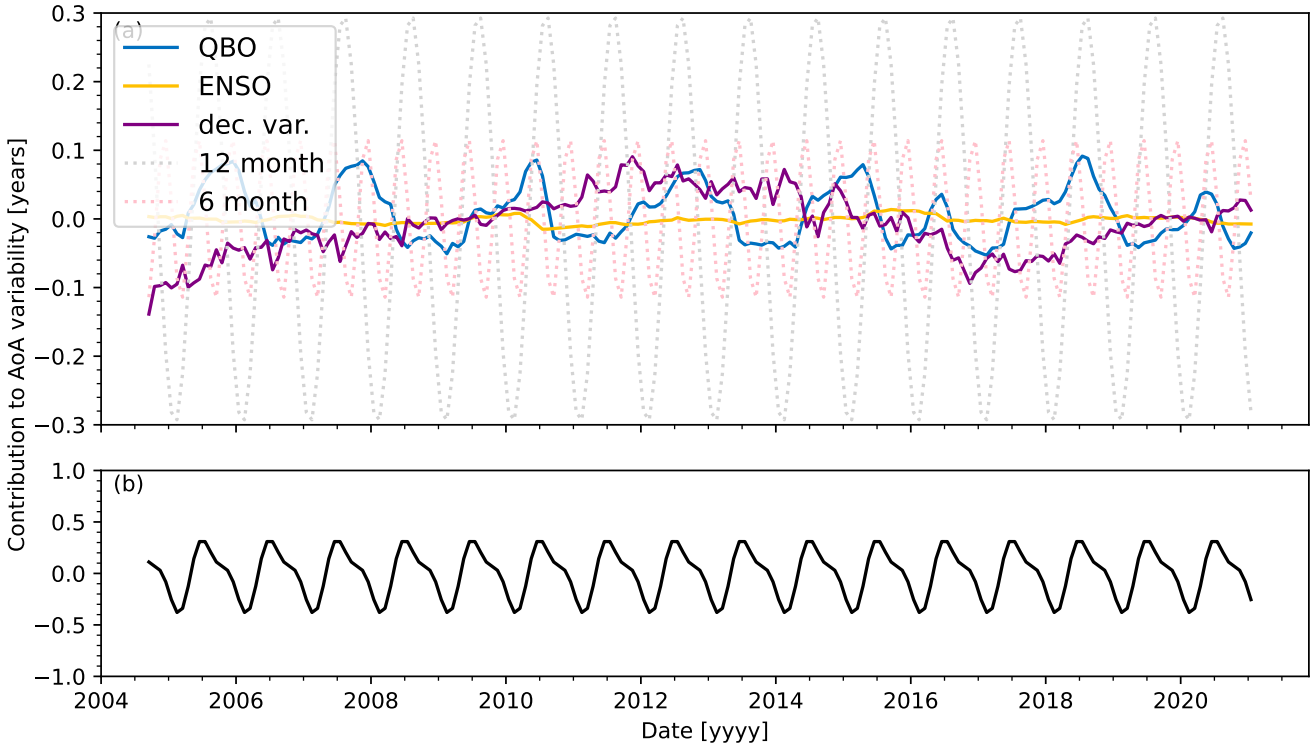

Figure S7. Same as Fig. S6 but for 40-50°S, 17-20 km.

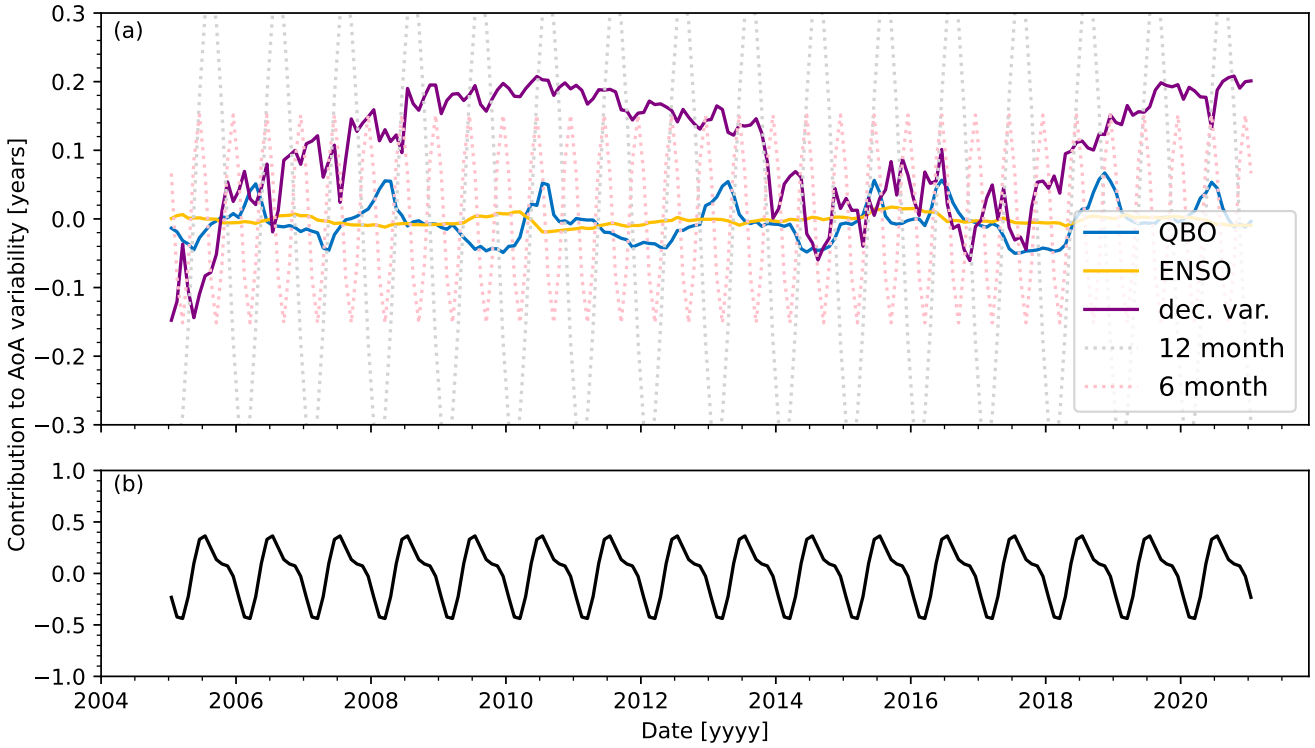

Figure S8. Same as Fig. S6 but for 50-60°S, 14-17 km.

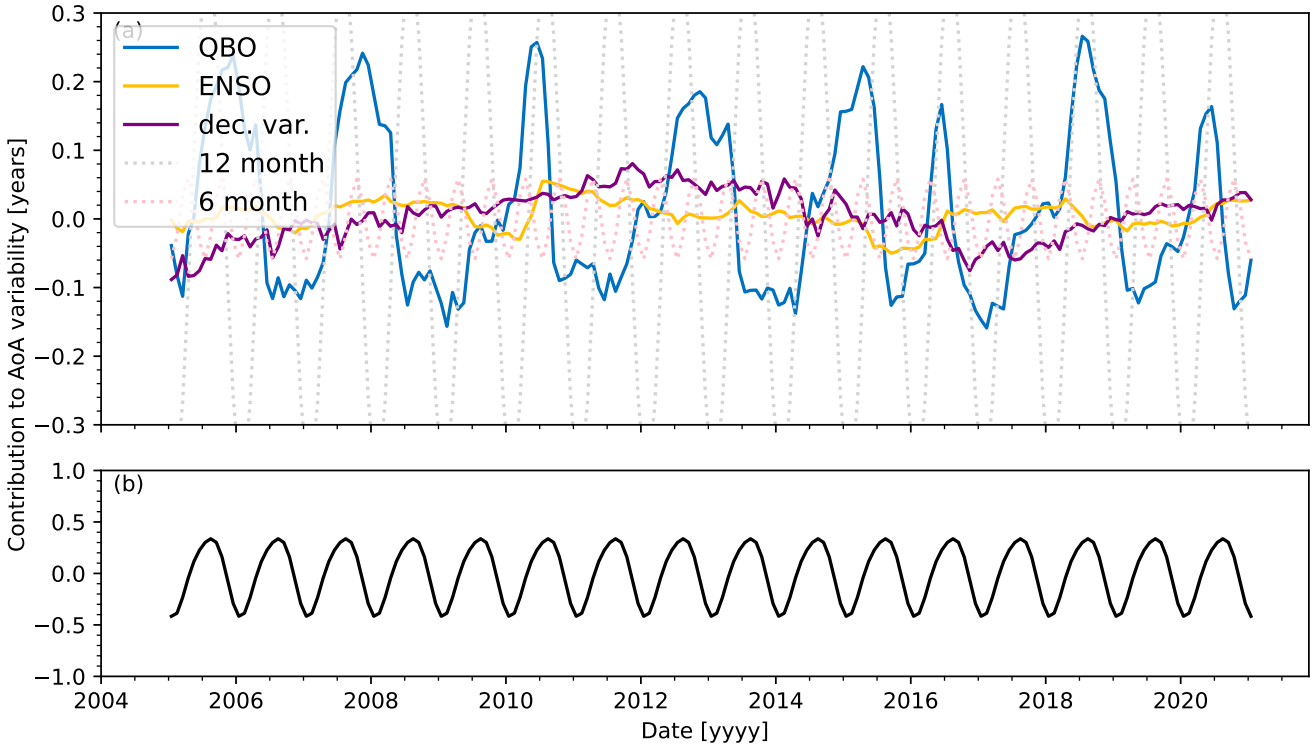

Figure S9. Same as Fig. S6 but for 50-60°S, 17-20 km.

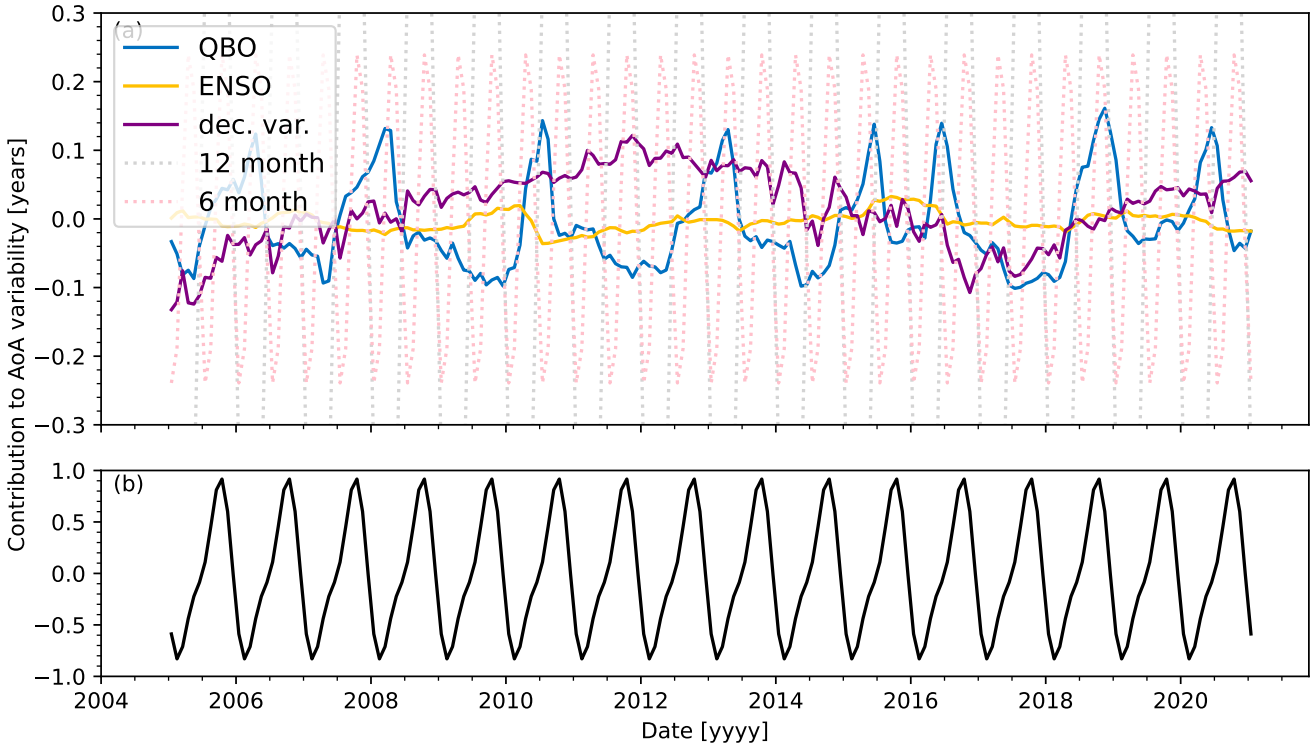

Figure S10. Same as Fig. S6 but for 60-70°S, 14-17 km.

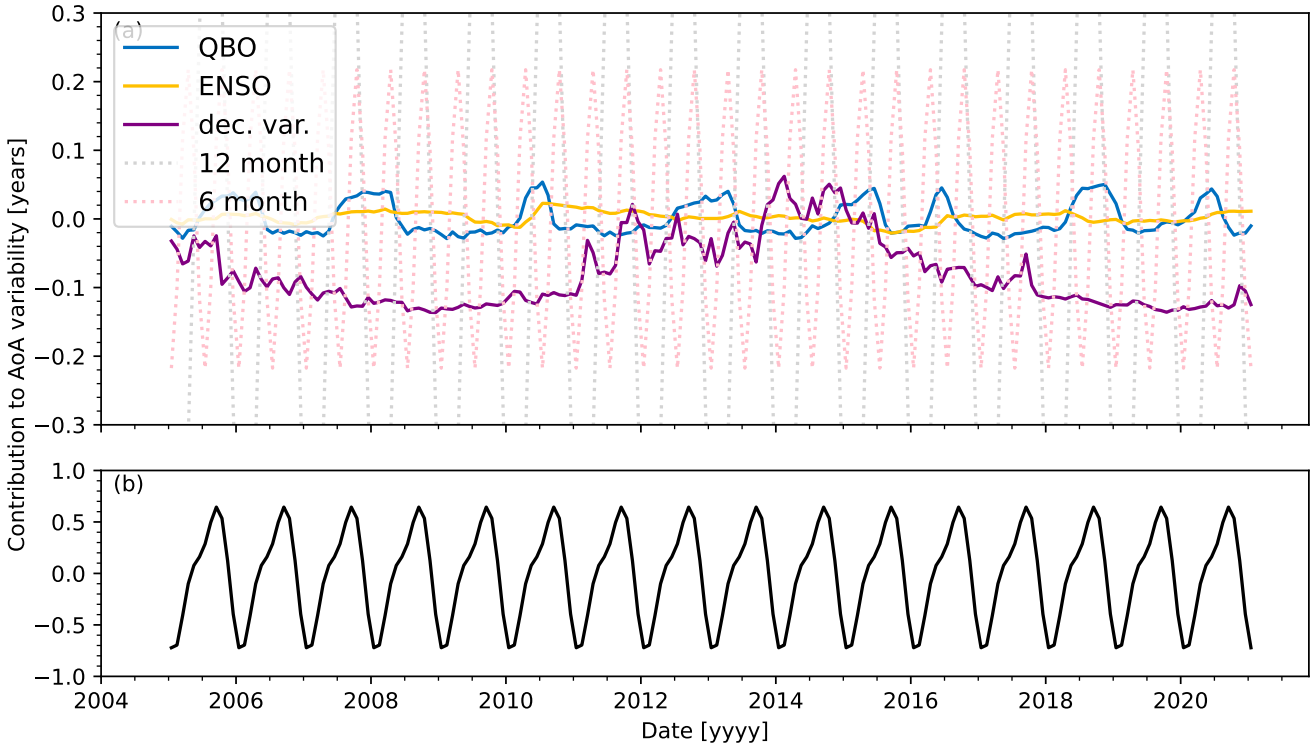

Figure S11. Same as Fig. S6 but for 60-70°S, 17-20 km.