Supplementary material for:

Atmospheric lifetime of sulfur hexafluoride (SF_6) *and five other trace gases in the BASCOE model driven by three reanalyses.*
Sarah Vervalcke, Quentin Errera, Simon Chabrillat, Marc Op de beeck, Thomas Reddmann, Gabriele Stiller, Roland Eichinger, and Emmanuel Mahieu.

5 Evaluation of trace gas profiles

Figures S1-S6 show the normalized mean bias, the standard deviation and the correlation of the six long-lived species simulated with the BASCOE CTM compared to MIPAS and ACE-FTS observations. The next series of figures (S7-S16) show the modified normalised mean bias and the normalised standard deviation of BASCOE model output with respect to MIPAS and ACE-FTS observations.
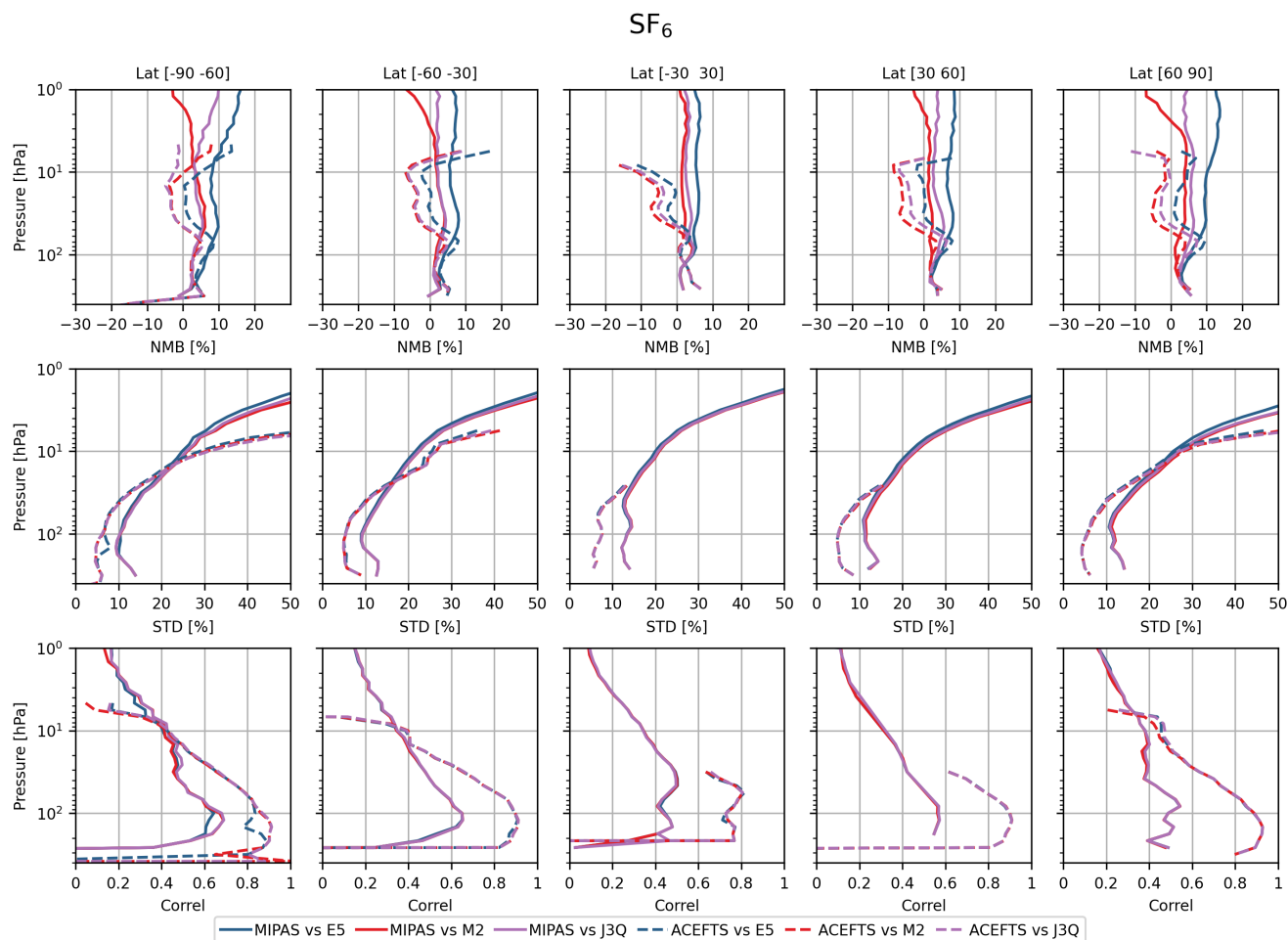
Figure S1. SF6 statistics with respect to MIPAS and ACE-FTS

N$_2$O
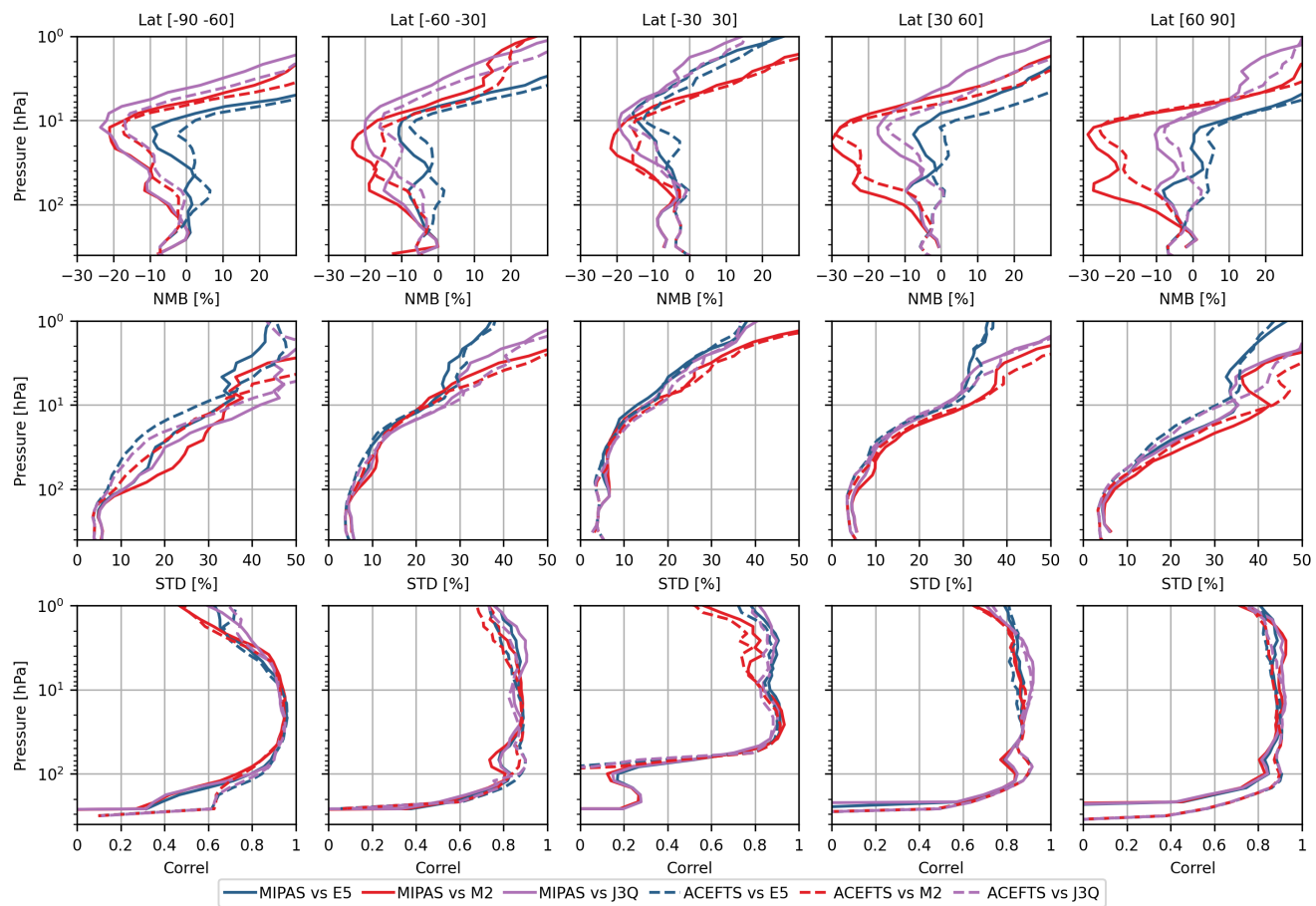
Figure S2. N$_2$O statistics with respect to MIPAS and ACE-FTS

CFC-11
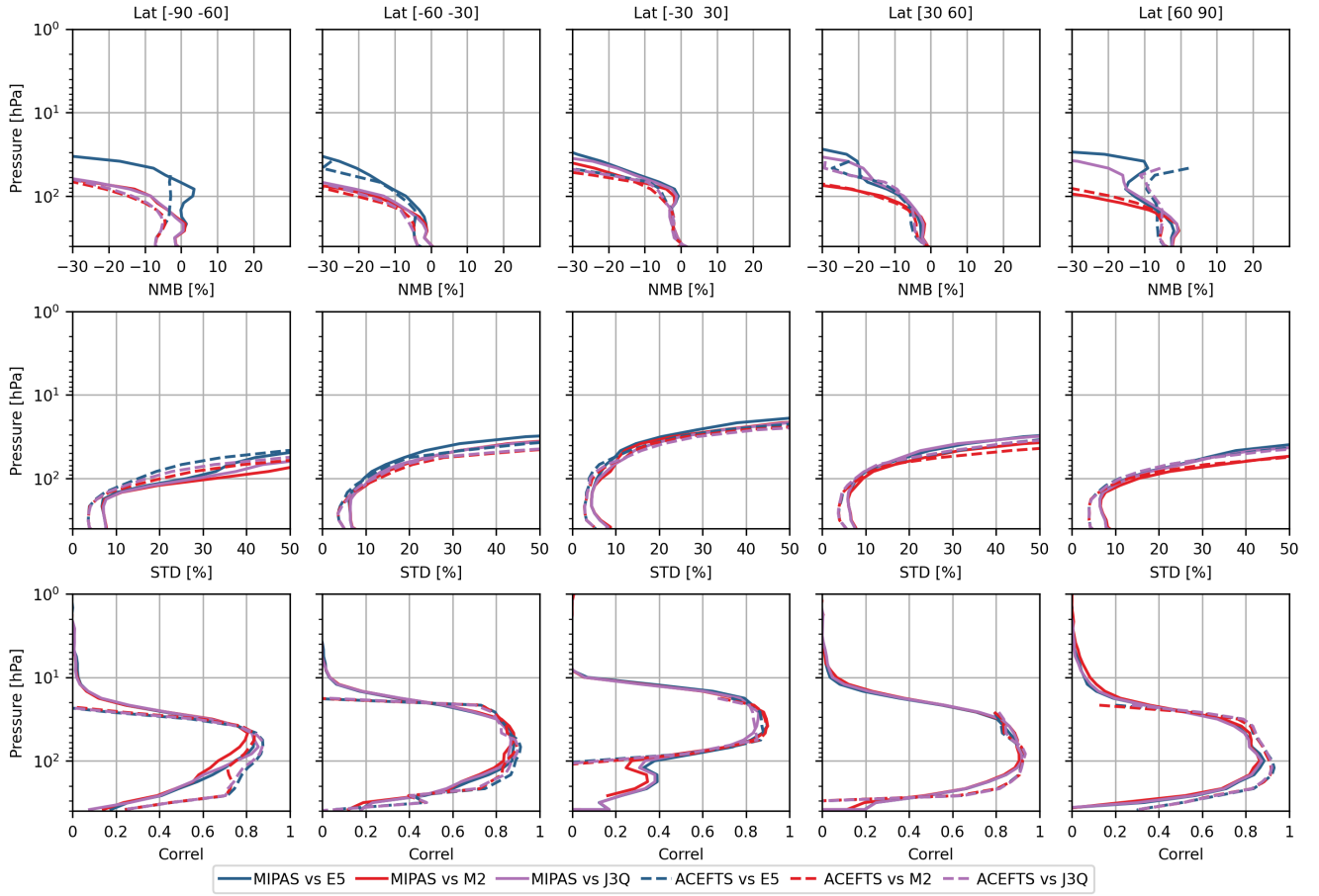
Figure S3. CFC-11 statistics with respect to MIPAS and ACE-FTS

CFC-12
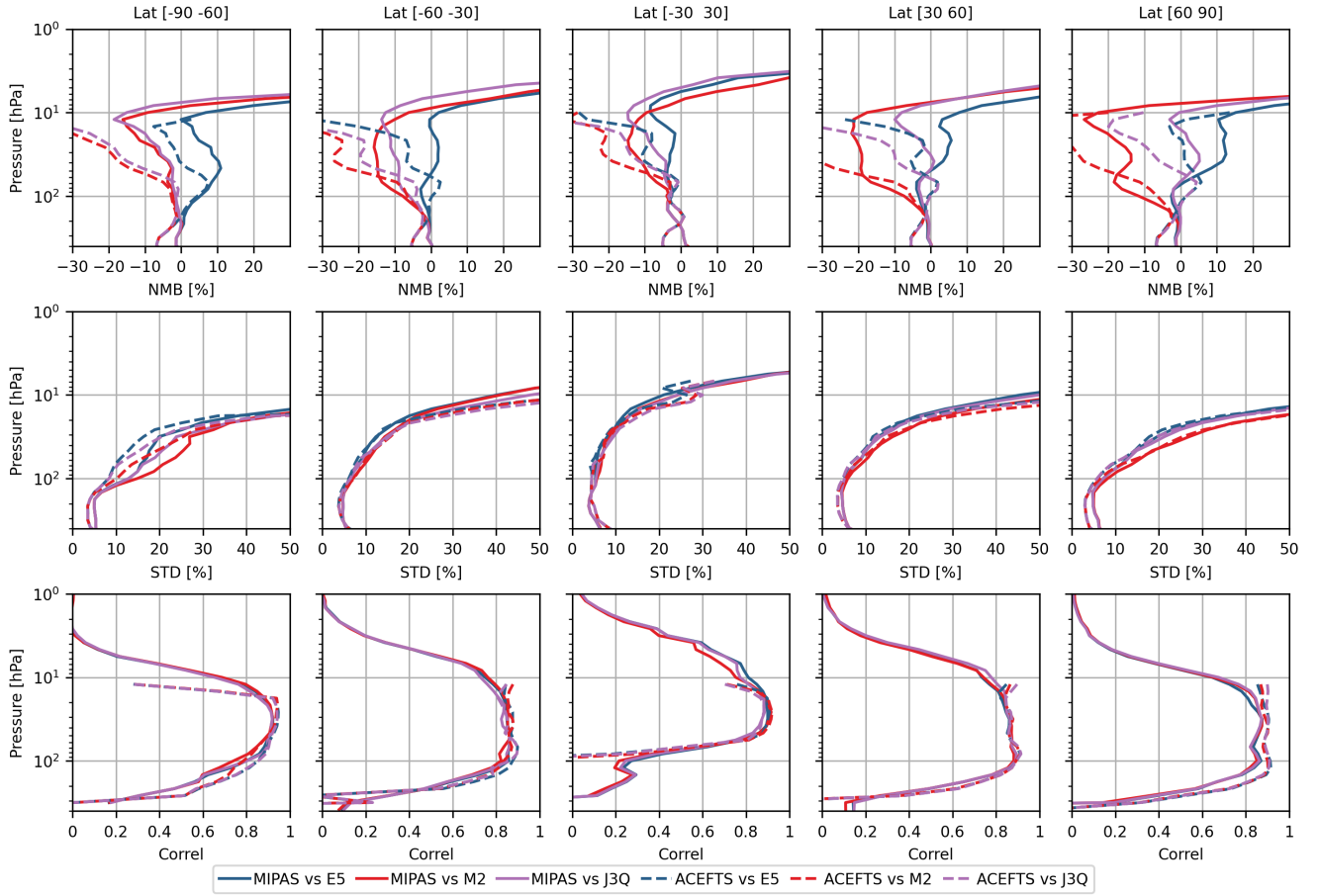
Figure S4. CFC-12 statistics with respect to MIPAS and ACE-FTS
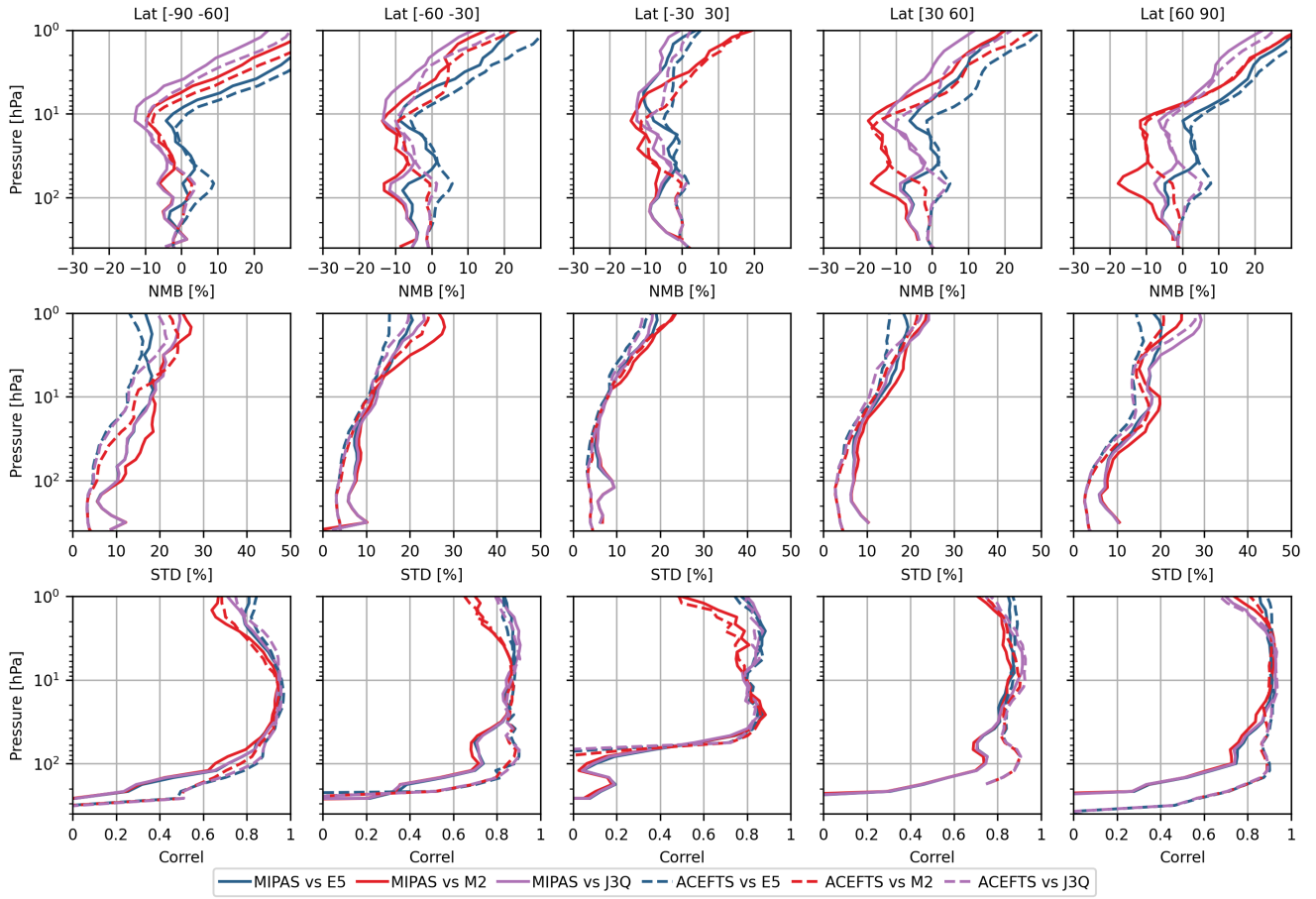
Figure S5. CH4 statistics with respect to MIPAS and ACE-FTS

HCFC-22
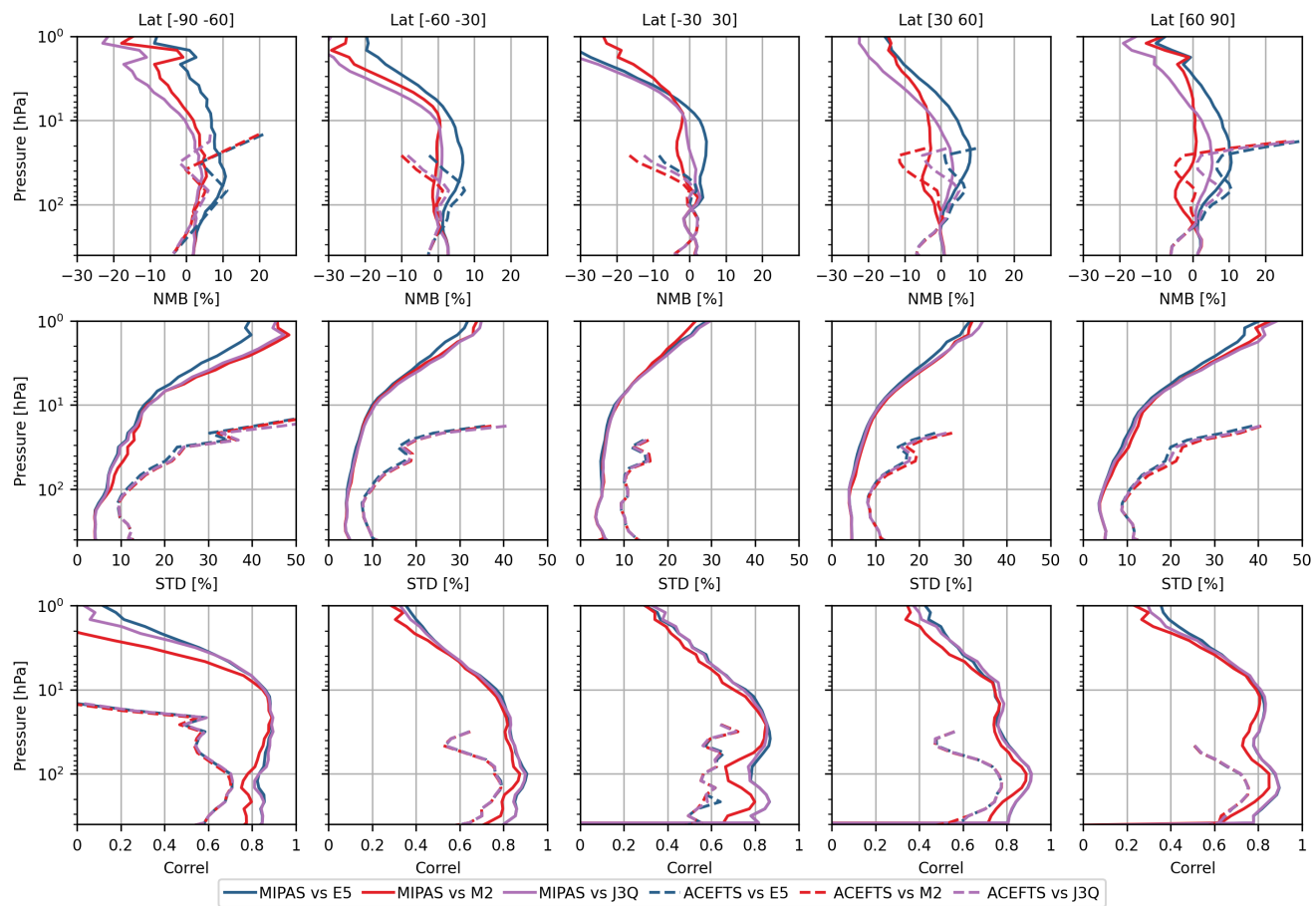
Figure S6. HCFC-22 statistics with respect to MIPAS and ACE-FTS
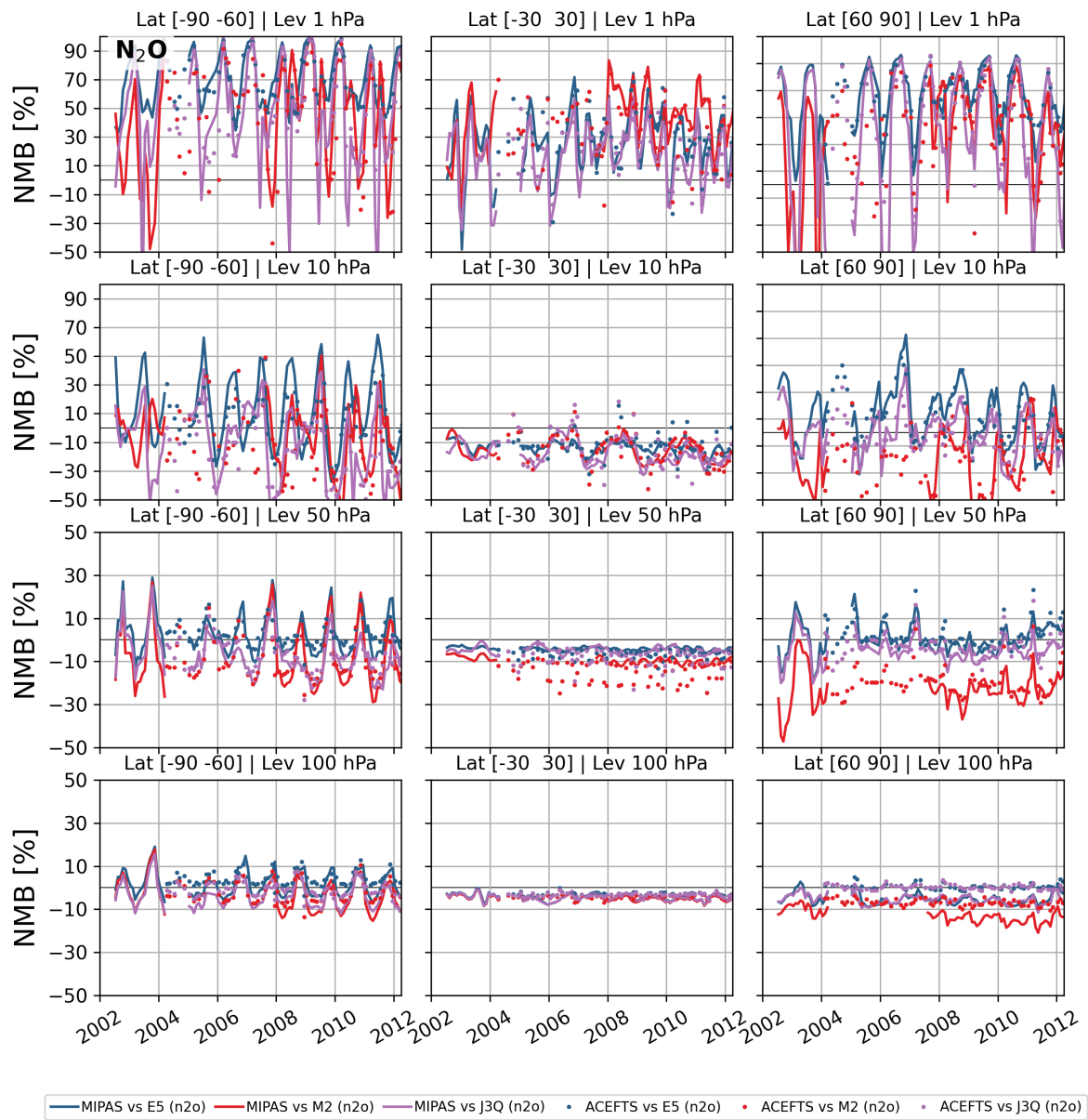
Figure S7. Modified normalised mean bias of BASCOE N_2O with respect to MIPAS and ACE-FTS.
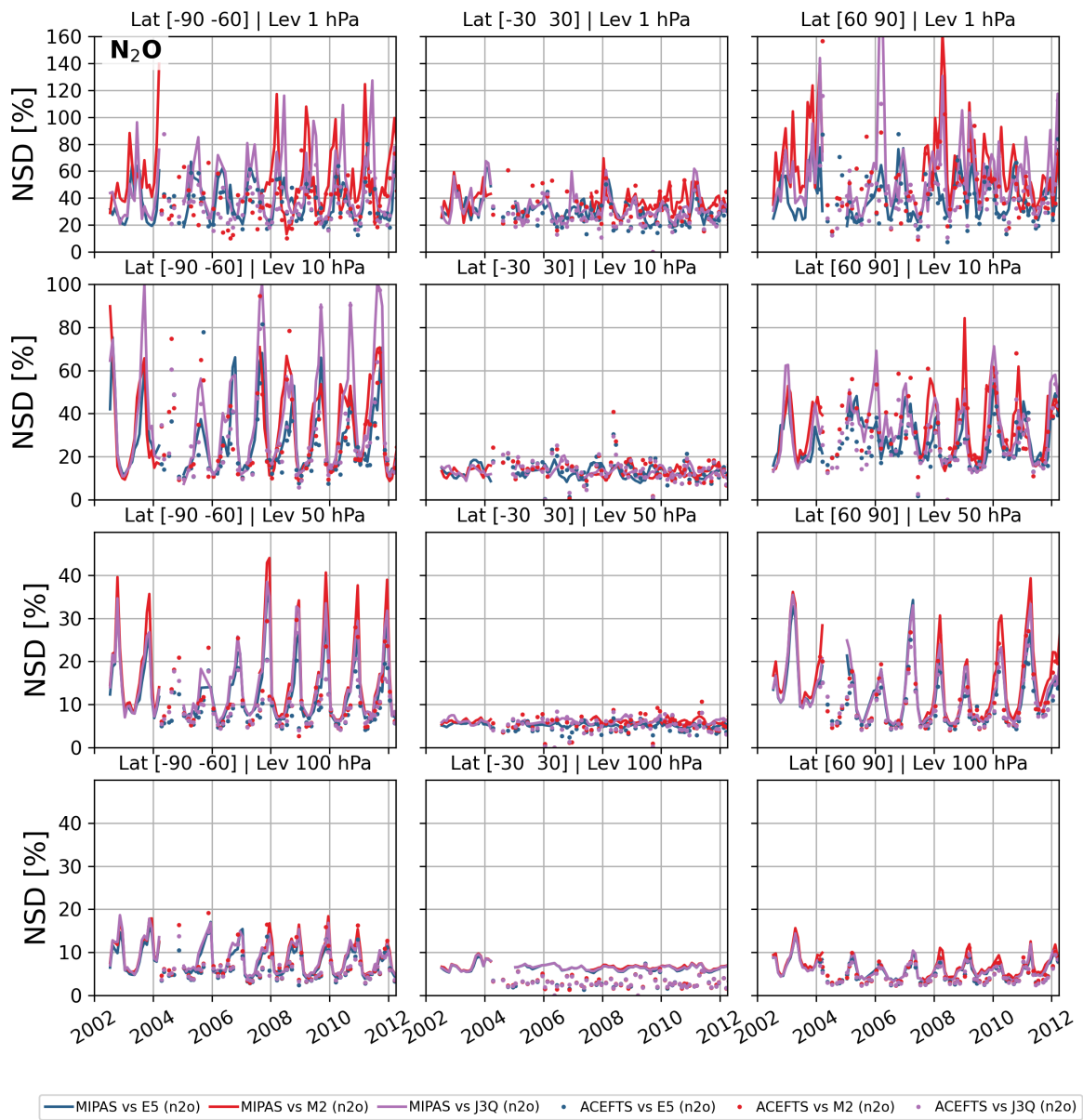
Figure S8. Normalised standard deviation of BASCOE N$_2$O with respect to MIPAS and ACE-FTS.
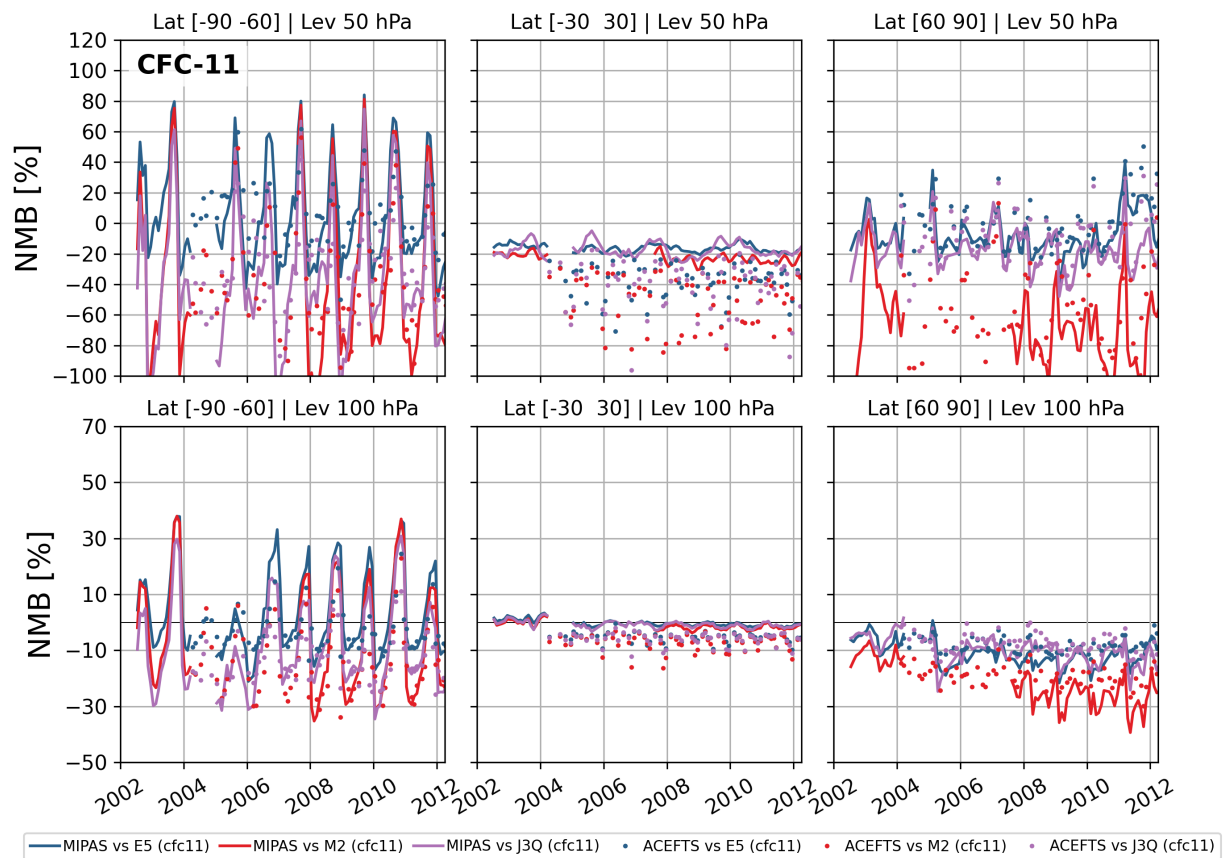
Figure S9. Modified normalised mean bias of BASCOE CFC-11 with respect to MIPAS and ACE-FTS.
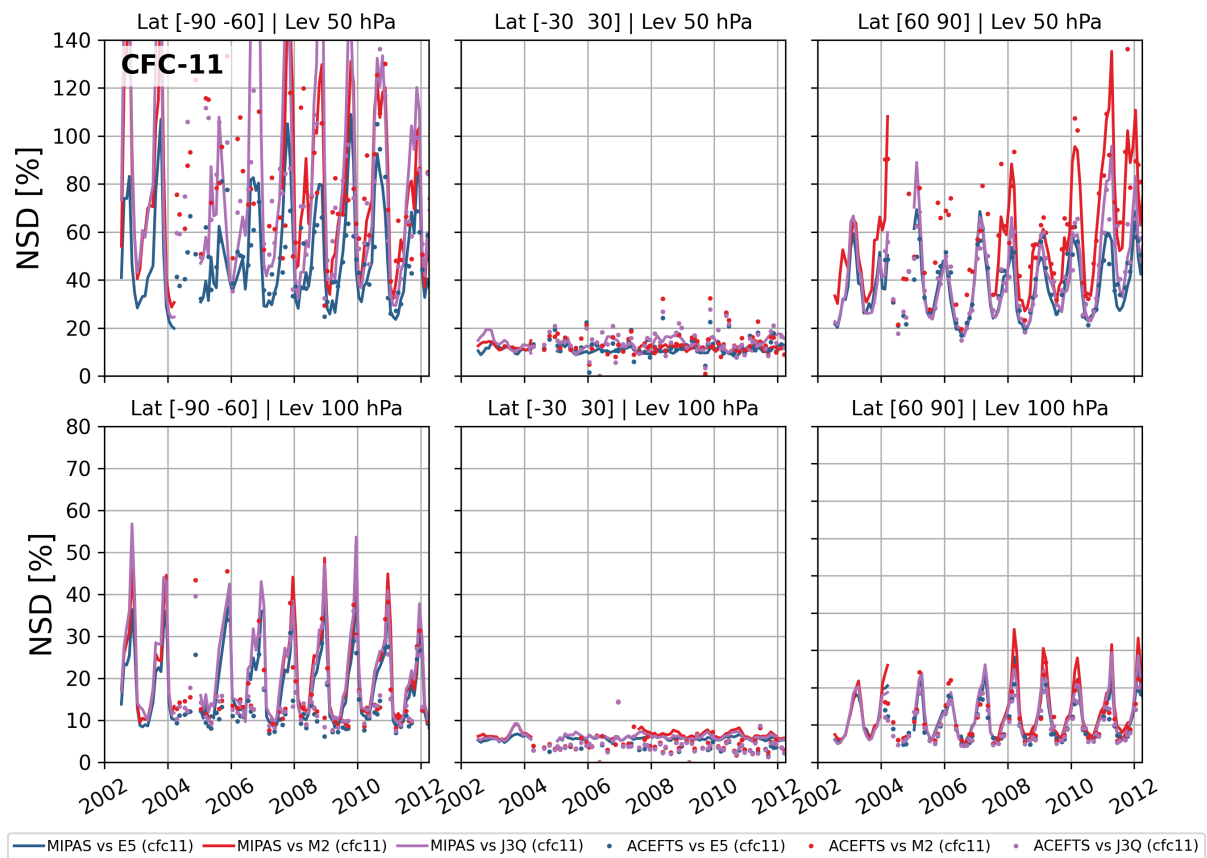
Figure S10. Normalised standard deviation of BASCOE CFC-11 with respect to MIPAS and ACE-FTS.
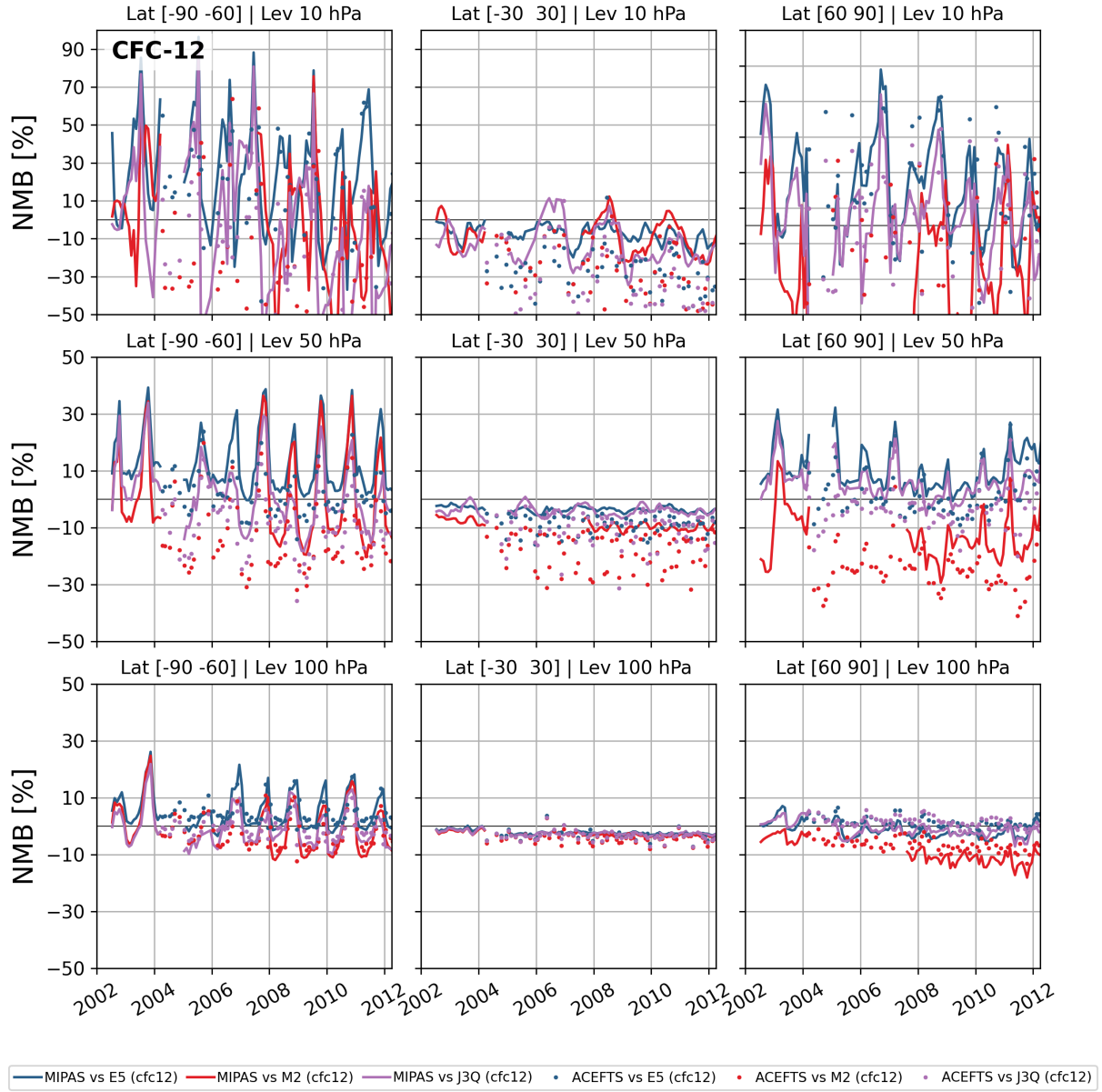
Figure S11. Modified normalised mean bias of BASCOE CFC-12 with respect to MIPAS and ACE-FTS.
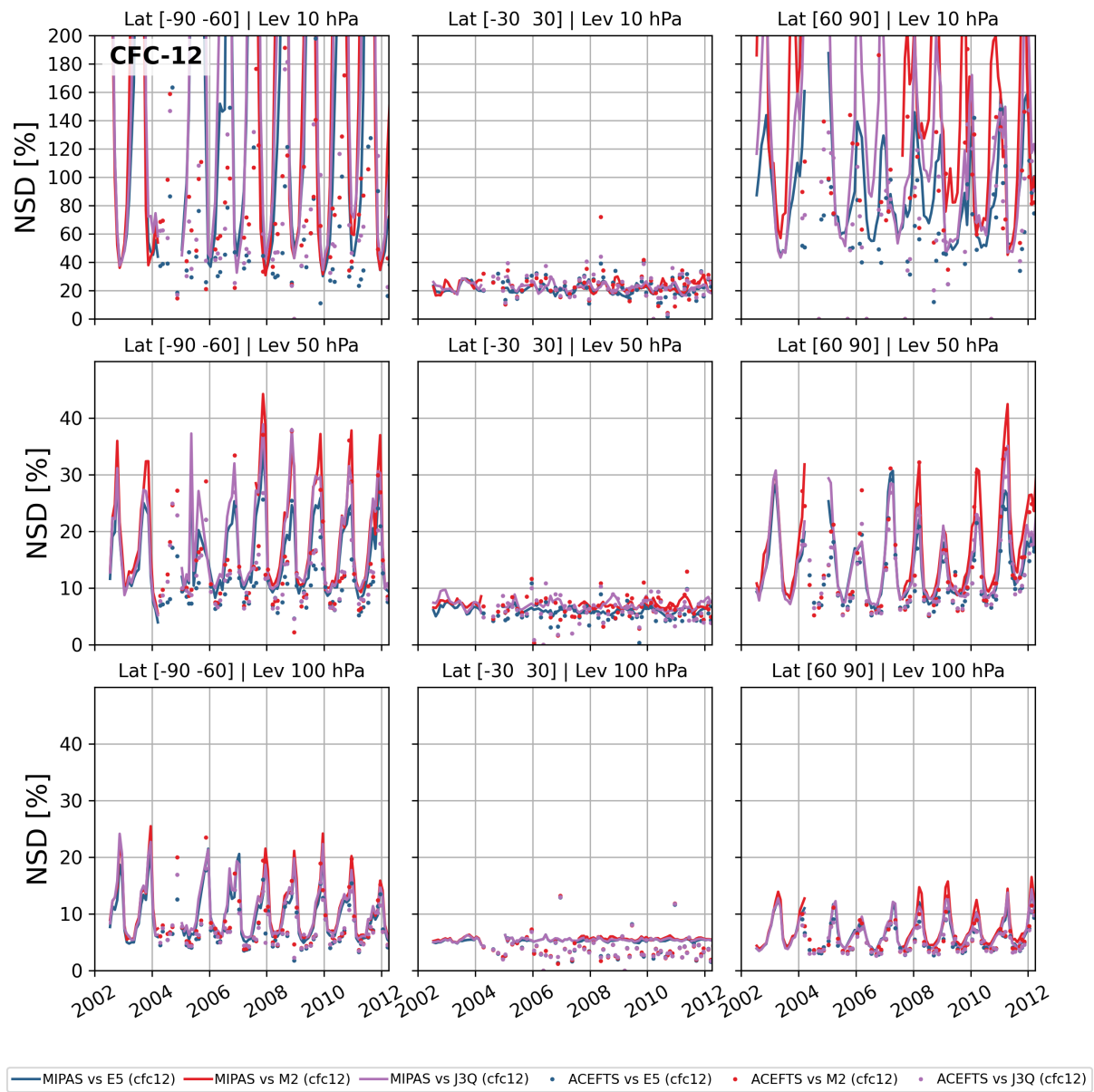
Figure S12. Normalised standard deviation of BASCOE CFC-12 with respect to MIPAS and ACE-FTS.
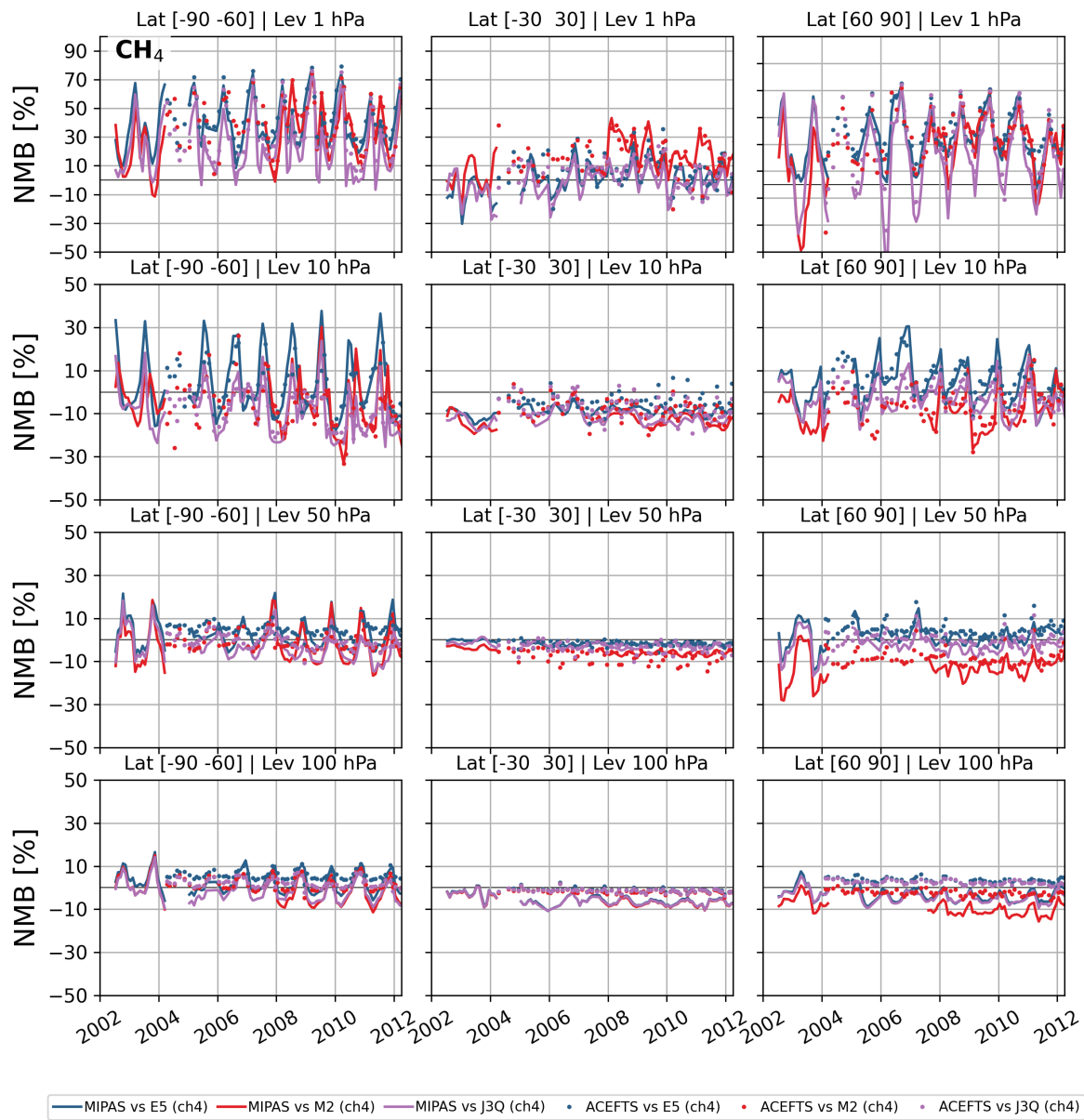
Figure S13. Modified normalised mean bias of BASCOE CH4 with respect to MIPAS and ACE-FTS.
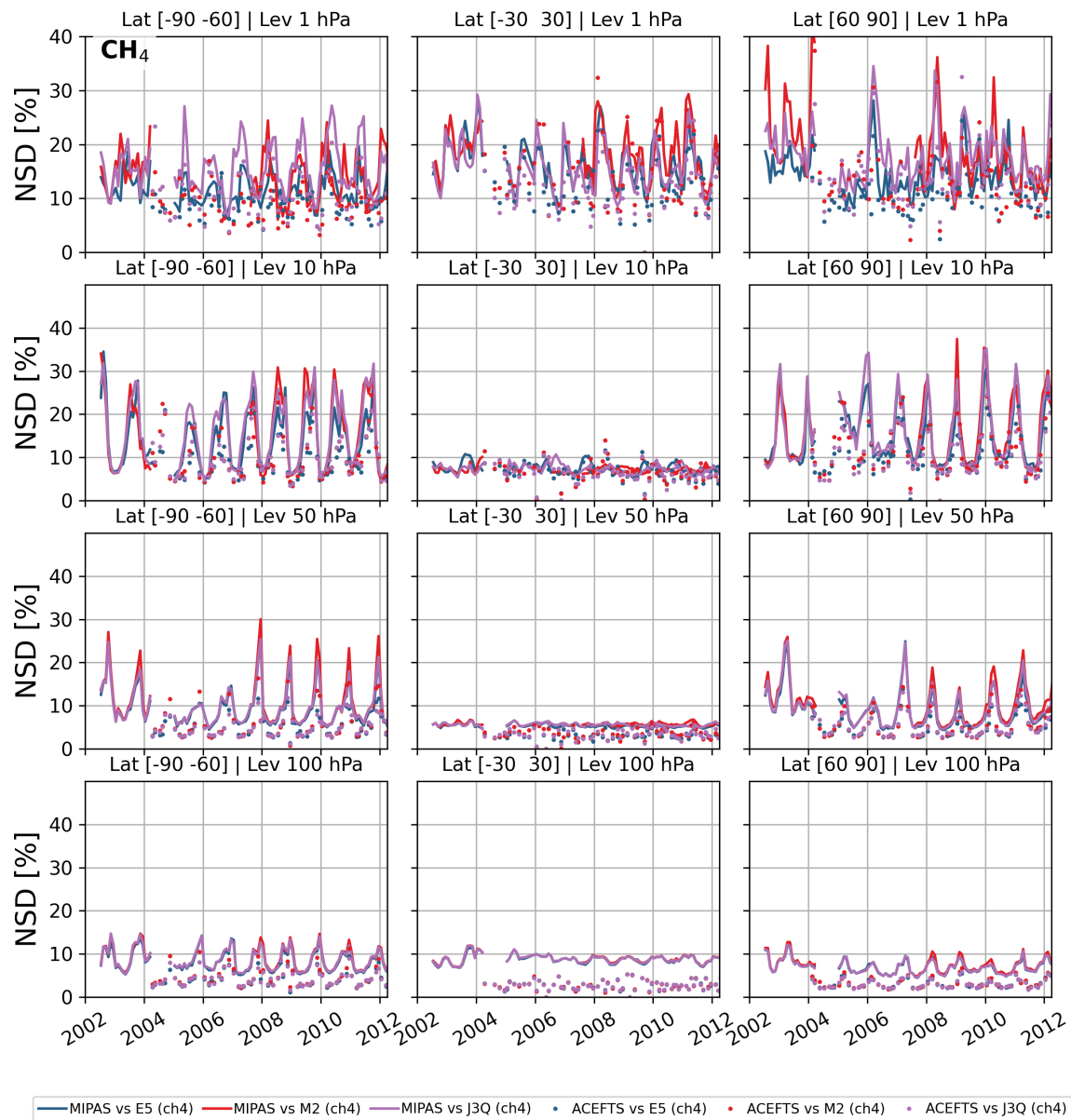
Figure S14. Normalised standard deviation of BASCOE CH4 with respect to MIPAS and ACE-FTS.
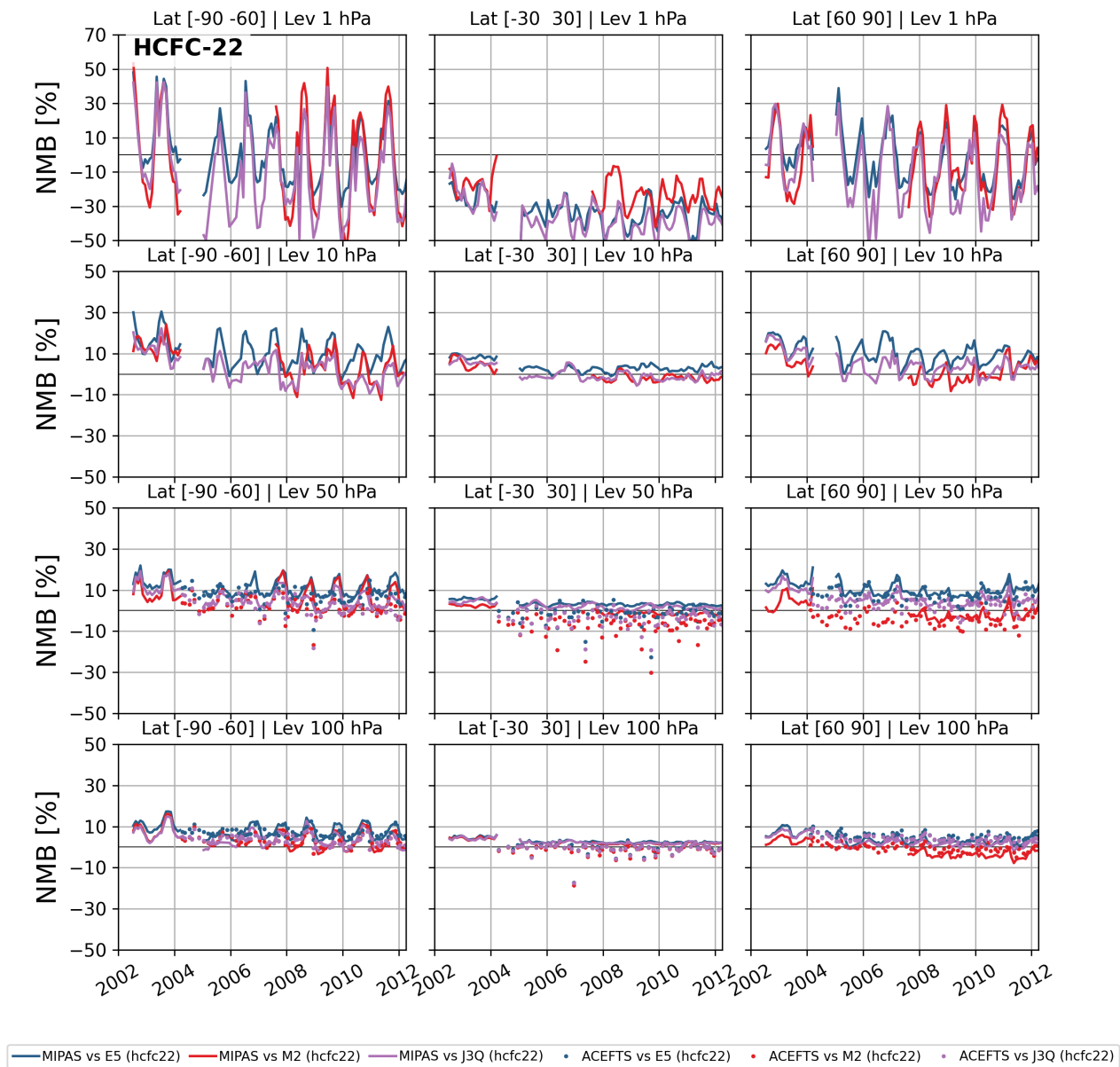
Figure S15. Modified normalised mean bias of BASCOE HCFC-22 with respect to MIPAS and ACE-FTS.
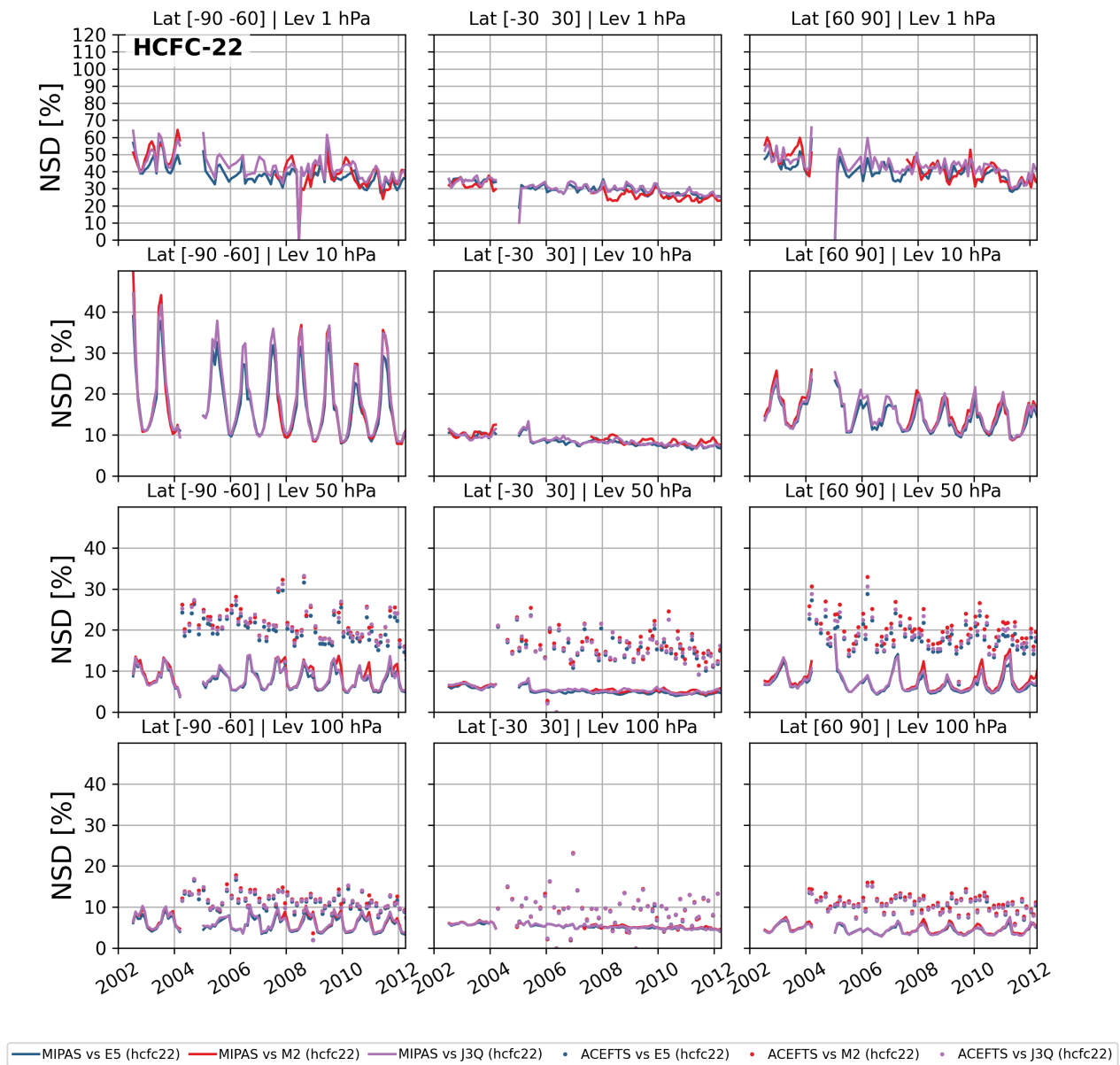
Figure S16. Normalised standard deviation of BASCOE HCFC-22 with respect to MIPAS and ACE-FTS.