

Figure 1: Decrease in the number of coincident profiles with OSIRIS after removing OSIRIS profiles with a SZA > 85.

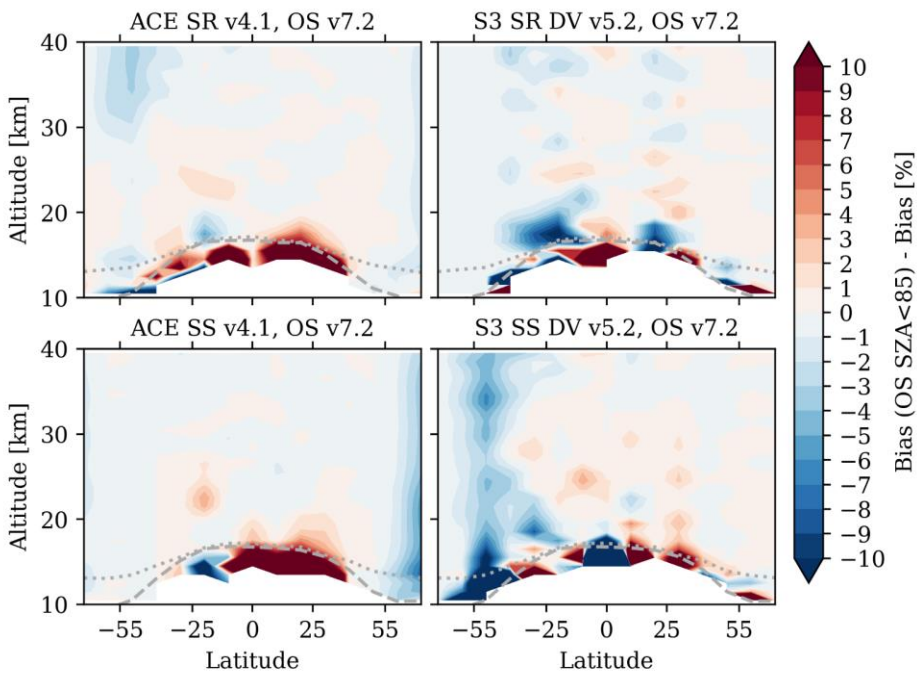


Figure 2: Difference between the bias with and without including OSIRIS scans with SZA < 85. Top left: ACE-FTS sunrise occultations. Top right: SAGE III/ISS sunrise occultations. Bottom left: ACE-FTS sunset occultations. Bottom right: SAGE III/ISS sunset occultations. In all panels the dashed line is the average tropopause altitude, and the dotted line is the average 380 K potential temperature altitude.