

# Global distribution of mean age of stratospheric air from MIPAS SF<sub>6</sub> measurements Supplement

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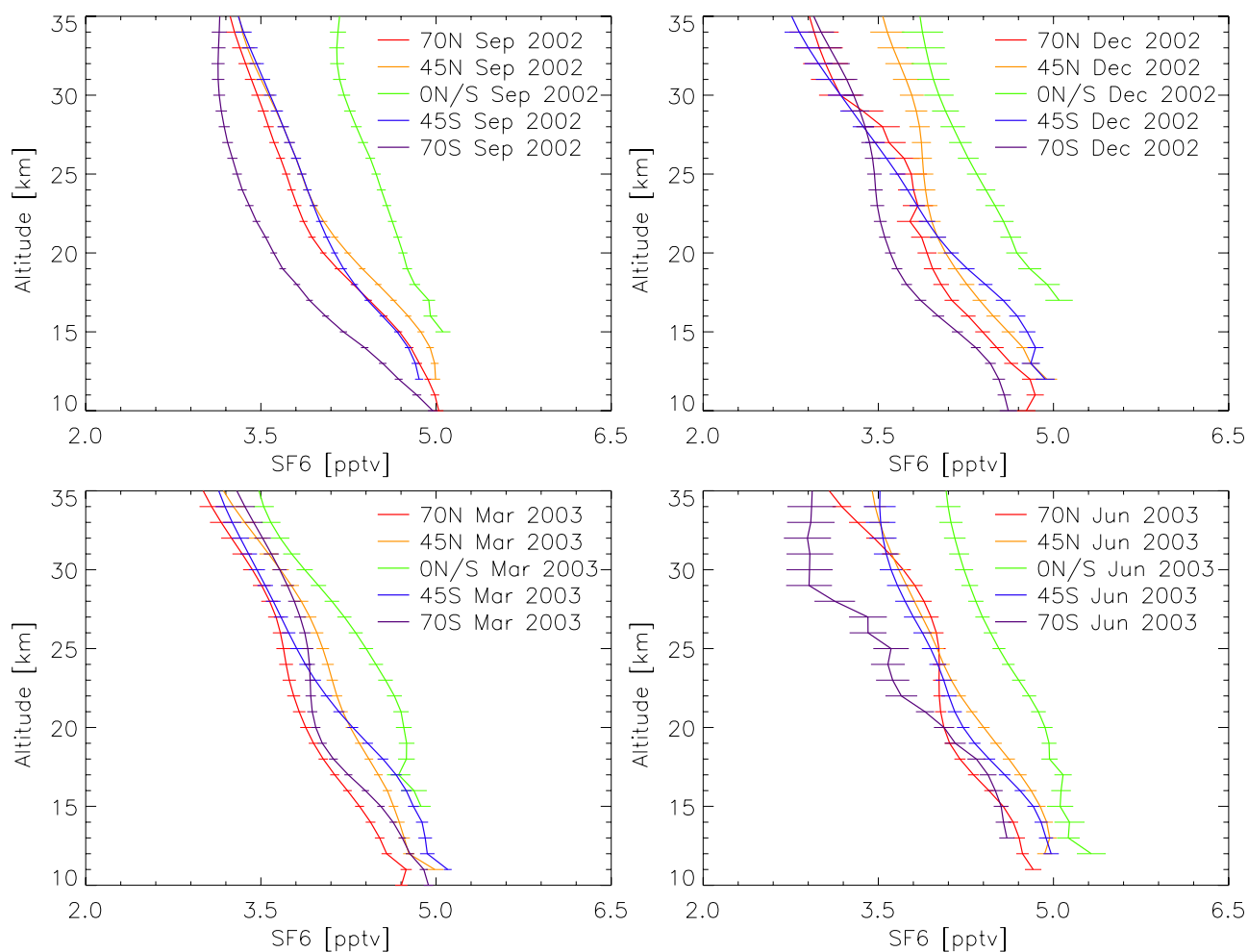
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**Abstract.** Zonally averaged vertical profiles of SF<sub>6</sub> and mean age of air (each representative for one month and a 5° latitude bin) are presented.

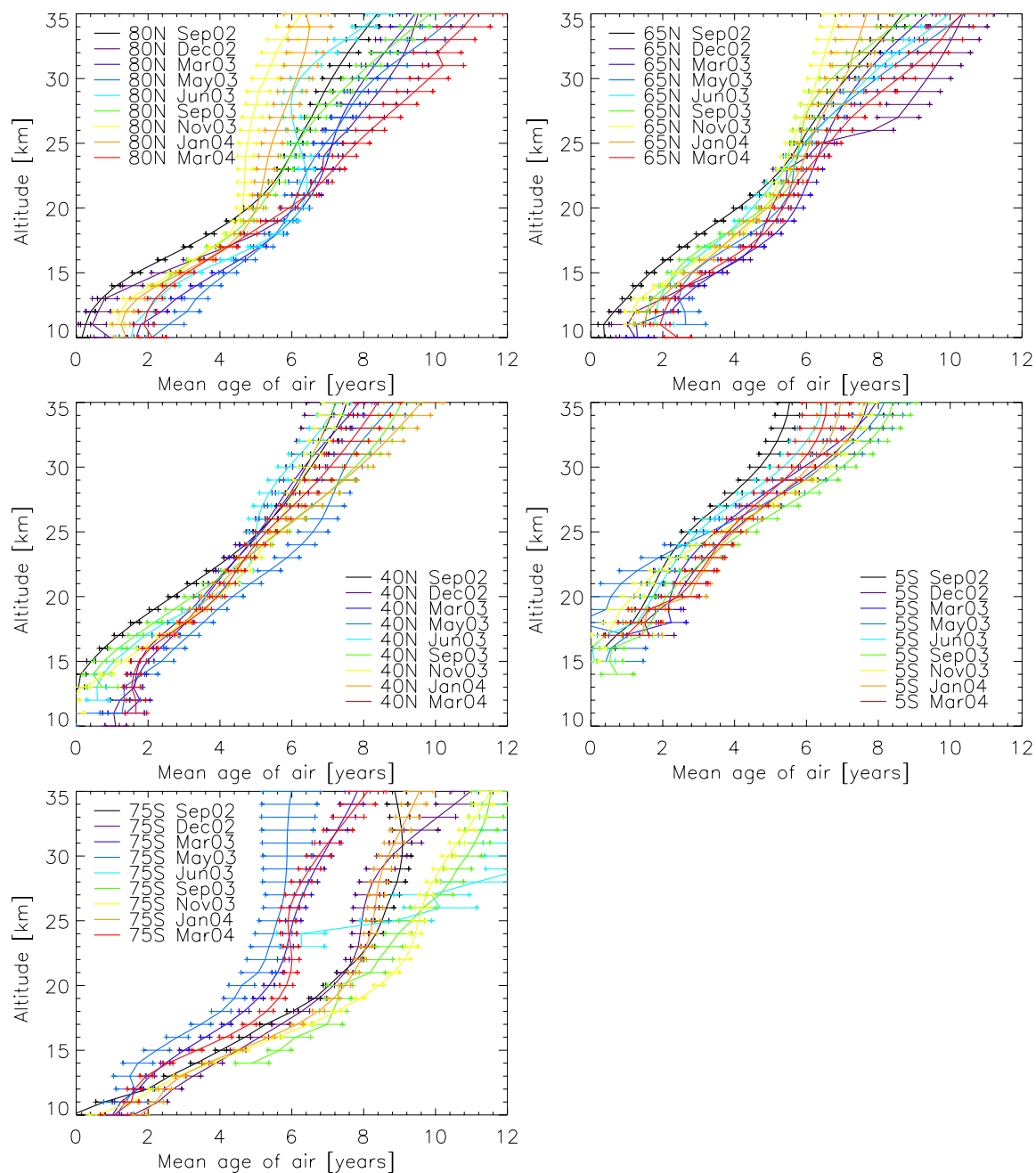
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**Fig. 1.** Seasonal and latitudinal variation of SF<sub>6</sub> profiles: The lines represent zonal (5° latitude bins) monthly means from 100–150 single profiles for the months September 2002, December 2002, March 2003, and June 2003, and for the latitudes 70° N, 45° N, 0°, 45° S, and 70° S. Error bars represent the 1σ standard errors of the mean.



**Fig. 2.** Monthly zonal mean age of stratospheric air profiles for 80° N, 65° N, 40° N, 5° S, and 75° S for the months September 2002 (black), December 2002 (violet), March 2003 (dark blue), May 2003 (light blue), June 2003 (turquoise), September 2003 (green), November 2003 (yellow), January 2004 (orange), and March 2004 (red). Errors represent the 1 $\sigma$  standard errors of the mean (horizontal lines).