

GU



Supplement of

The Michelson Interferometer for Passive Atmospheric Sounding global climatology of $BrONO_2$ 2002–2012: a test for stratospheric bromine chemistry

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The Figures in this supplement are equivalent to Fig. 12 of the paper but for bins of 10 degrees of latitude and 2 km altitude: series of averaged MIPAS BrONO₂ measurements (dark blue dots) and derived total stratospheric Br_y (red dots) for different altitude and latitude bands over the time of stratospheric entry. Dark blue and red lines indicate the related time averaged mean values over the whole period and the red shading indicates the estimated 1- σ uncertainty.



Figure S1: Same as Fig. 12 of the paper, but for the latitude range 80° S-70°S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S2: Same as Fig. 12 of the paper, but for the latitude range 70° S- 60° S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S3: Same as Fig. 12 of the paper, but for the latitude range 60° S- 50° S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S4: Same as Fig. 12 of the paper, but for the latitude range 50° S-40°S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S5: Same as Fig. 12 of the paper, but for the latitude range 40° S- 30° S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S6: Same as Fig. 12 of the paper, but for the latitude range 30° S-20°S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S7: Same as Fig. 12 of the paper, but for the latitude range 20° S- 10° S and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S8: Same as Fig. 12 of the paper, but for the latitude range 10° S-0° and 2 km wide altitude ranges from 29-30 km (top) to 21-22 km (bottom).



Figure S9: Same as Fig. 12 of the paper, but for the latitude range $0^{\circ}-10^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S10: Same as Fig. 12 of the paper, but for the latitude range $10^{\circ}N-20^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S11: Same as Fig. 12 of the paper, but for the latitude range $20^{\circ}N$ – $30^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S12: Same as Fig. 12 of the paper, but for the latitude range $30^{\circ}N-40^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S13: Same as Fig. 12 of the paper, but for the latitude range 40° N- 50° N and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S14: Same as Fig. 12 of the paper, but for the latitude range $50^{\circ}N-60^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S15: Same as Fig. 12 of the paper, but for the latitude range $60^{\circ}N$ – $70^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).



Figure S16: Same as Fig. 12 of the paper, but for the latitude range $70^{\circ}N-80^{\circ}N$ and 2 km wide altitude ranges from 29–30 km (top) to 21–22 km (bottom).