First of all we thank the referee for her/his effort to carefully reading the manuscript and for all comments and suggestions for improvements.

Major comments:
1) We harmonized the figures as far as possible.
2) We mention the smoothing not only in the figure caption but also in the text.

Minor comments:

1. p. 4441 l. 11:
   A reference is given in the text now.

2. p. 4445, l. 17-19:
   We included a bit more details on the observed deviations.

3. p. 4447, l. 15:
   Corrected.

4. p. 4448, l. 5:
   It is mentioned in the text now.

5. p. 4449, l. 11 and p. 4450, l. 10:
   In general, our categories to look for latitudinal differences among matches were from 0-30°, 30°-60° and 60-90°. However, no collocations above 80° S/N were found between MIPAS and HALOE or MIPAS and SAGE II. We changed the heading of the corresponding figures and tables as wished by the reviewer.

6. p. 4452, l. 19:
   We give the corresponding pressure value in the text now.

7. p. 4487, Fig. 18:
   We mention the smoothing in the figure caption now.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 4433, 2013.