Comments with respect to referee #2

Many thanks for your helpful hints.

1. We will exchange section 1 and 2 and agree that this will improve the logical structure of the paper.
2. We will exchange Figure 1 by a small own map showing just Antarctica and the mentioned Antarctic stations.
3. We will re-formulate this part and adopt some of your proposed sentences.
4. The final paper will show some re-formulations.
5. The data from Georg-Forster-Station have been corrected as written in section 1.

The data from Neumayer-Station were compared with TOMS data. This comparison showed that no corrections are needed. We will add this information in the final paper.

We will consider your mentioned minor issues at the end of your review.