

Interactive comment on “Compilation of ozonesonde profiles from the Antarctic Georg-Forster-Station from 1985 to 1992” by G. König-Langlo and H. Gernandt

G. König-Langlo and H. Gernandt

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Comments with respect to referee #3

The authors are aware of ozone soundings performed in Antarctica which are not mentioned in their paper. Giving a summary of any ozone measurements performed at any time in Antarctica was not the idea of chapter 3.2. This information can be found e.g. at WOUDC (http://www.woudc.org/index_e.html). The idea of chapter 3.2 is nothing else but a brief description of measurements which have been already analyzed in conjunction of the measurements at Georg-Forster-Station. The authors think that this chapter offers valuable information to anyone who plans further investigations using the published dataset.

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We will make sure that only the references will be included which are mentioned in the text.

Since we do not want to have misleading parts in our paper we will add your proposed sentence: The measurements began the year the ozone hole was discovered and significantly contribute to other measurements made prior to and following 1985 at other stations.

As written in the caption the number of profiles given in the Table 1 is not the number of profiles per year but per October. Since the spectrometer measurements of column ozone cannot be performed during polar night a table based of any profile during a whole year does not make sense. We chose October since it was the month with the maximum of daylight soundings.

The data from Neumayer are mentioned only in the chapter 3.2 (Related Datasets) and are not part of this publication. Thus, we do not include Neumayer in Fig. 1. We will exchange Fig. 1 with a less distorted map.

Fig. 2 displays the data from Georg-Forster-Station according to the title of the paper. Since Fig. 3 is part of the chapter 3.2 (Related Datasets) it makes sense to displays a joint dataset from Georg-Forster-Station and Neumayer.

Your English corrections are welcome and will be included in the final paper.

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