

## ***Interactive comment on “SI<sup>2</sup>N overview paper: ozone profile measurements: techniques, uncertainties and availability” by B. Hassler et al.***

### **Anonymous Referee #1**

Received and published: 27 December 2013

This paper is generally well written and is a nice introduction to the instruments and measurement techniques used for ozone profile measurements. It contains very useful reference material for a reader looking for instrument characteristics, operational periods and data availability. The only information missing from the “quick reference” tables is a table of instrument uncertainties. It would be nice to have that table included in this work (but not an absolute necessity for publication).

In this reviewer’s opinion this work should be published after a few minor corrections are made:

P9861 line 18 “other” should be capitalized. P9862 line 28 “painstaking” is editorializing and should be removed P9863 line 11 “artefacts” →→artifacts P9867 line 28 “the

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replacement of the instrument at the station. . .” → the replacement of an instrument at a station

P9869 line 10 “spatial resolution of 100km” what does this mean? P9870 line 22 suggest: “by retrieving . . . . ,thus reducing” P9870 line 24 change “on” to “of” P9871 line 15 remove “long-term”

P9874 line 13 tenth → tens P9874 line 25,27 verbs change tense. Suggest “scanned” P9876 line 14 stray comma after “calculated” P9879 line 23 “however” sounds negative. Suggest: “. . .mission and is currently still in operation”

P9880 line 4 change “in” to “of” P9882 line 21 remove “negligible” P9883 line 1 change “measurement” to “method” P9888 line 12 remove “supposedly”

P9890 line 22 “reasonably well”? Please quantify or remove. P9896 line 1 profiles → profile P9896 line 14 add “scanning” to nadir viewing Line 20 the row anomaly section seems to have been split in two. Please move to next page (lines 8-13)

P9898 line 9 profiles → profile P9898 line 18 observation → observations P9898 line 23 something is missing from: “Owing to the non. . . .” P9899 line 3 change “within” to “by” and fix sentence structure.

P9901 move “data” to after “time series”

Figure 1 could use some larger symbols to show the station locations. Also, yellow sometime does not show up well on some computer screens/hardcopy. Suggest using another color.

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Interactive comment on Atmos. Meas. Tech. Discuss., 6, 9857, 2013.

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