

## ***Interactive comment on “Simple measures of ozone depletion in the polar stratosphere” by R. Müller et al.***

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Section 2 (page 9833, line 7) indicates that version 3.1 of the official GOME total column products is being used. This is an outdated version with well known deficiencies.

DLR on behalf of ESA provides GOME ozone data with the version 4 since 2004. GOME version 4 contains considerable improvements [1], including the alleviation of the retrieval problems for high solar zenith angles mentioned in page 9833, lines 25–26.

A detailed validation of GOME version 4 with ground-based measurements and a comparison with TOMS can be found in [2].

GOME version 4 should be used in this work.

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## Refernces:

[1] Van Roozendael M., Loyola D., Spurr R., Balis D., Lambert J-C., Livschitz Y., Valks P., Ruppert T., Kenter P., Fayt C., Zehner C., "Ten years of GOME/ERS-2 total ozone data: the new GOME Data Processor (GDP) Version 4: I. Algorithm Description" , Journal of Geophysical Research, vol. 111, D14311, 2006.

[2] Balis D., Lambert J-C., van Roozendael M., Spurr R., Loyola D., Livschitz Y., Valks P., Amiridis V., Gerard P., Granville J., Zehner C., "Ten years of GOME/ERS-2 total ozone data: the new GOME Data Processor (GDP) Version 4: II. Ground-based validation and comparisons with TOMS V7/V8", Journal of Geophysical Research, vol. 112, 2007 D07307, 2007.

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