**Atmospheric
Chemistry
and Physics
Discussions**

Interactive comment on **"Solar occultation with SCIAMACHY: algorithm description and first validation"** *by* **J. Meyer et al.**

Anonymous Referee #2

Received and published: 26 February 2005

Technical Corrections

I recommend that the text is throughly proof read before final submission. There are a number of errors an automated spell check would have discovered.

p18 line 7 "... capable of simulating the ..."

p18 line 13 "... errors of the order ..."

p18 line 19 "... investifation of stratospheric ..."

p19 line 15 "... and near-polar ..."

p19 line 19 "situated"

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p19 line 22 "... are more easily detected ..."

p19 line 25 "... key species required to understand atmospheric chemistry"

p20 line 5 "... assumes that the only ... measured is ..."

p20 line 7 "... calculated by dividing ..."

p20 line 11 and elsewhere in the article. "Modeled" is the US spelling, please check if British spelling is required by the journal.

p21 line 23 "During a pixel ..."

p22 line 6 "... at time = 0s in ..."

p22 line 6 "... a Sun tracking device ..."

p22 line 12 "... a limb-staring mode ... without any scanning ..."

p 23 line 17 "... full-width half-maxima ..."

p24 line 27 "... is described in detail by ..."

p24 line 28 "Sun"

p24 line 12 "... trace gas ..."

p24 line 14 "Bates (1984)"

p25 line 4 incorrect open quote mark on "inverse problem"

p25 line 17 "... as is already ..."

p25 line 19 "... ill-conditioned ..." delete "and measurements ... error"

p25 line 21 "... solution iteratively ..."

p25 line 22 "A short ...measurements is given in ..."

p26 line 6 "... capable of calculating ..."

p28 line 14 "in Meyer et al (2004)"

p28 line 14 "... to be stable ..."

p30 line 5 "... whether ..."

p30 lines 11, 14, 20 + other pages also. Please search and replace "sun" with "Sun" throughout the document

p32 line 7 "... any structure except for ..."

p32 line 26 incorect opening quote mark on "optimal"

p33 line 9 "... and in more detail in ..."

p36 line 10 "... are more strongly related ..."

p38 line 21 "... is of the same order ..."

p38 line 22 "... gaussian statistics ..."

p39 line 9 "It is based ..."

p41 line 11 "Application to occultation measurements"

p46 line 14 "... unstable solutions ..."

Figures 9 and 12 Averaging kernels are unitless. There is no need for "arbitrary units" to appear in the captions.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 17, 2005.

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