Atmos. Meas. Tech. Discuss., 7, C1142–C1143, 2014
www.atmos-meas-tech-discuss.net/7/C1142/2014/

Atmospheric Measurement Techniques Discussions

Interactive comment on "The added value of a visible channel to a geostationary thermal infrared instrument to monitor ozone for air quality" *by* E. Hache et al.

M. Hamilton (Referee)

murray.hamilton@adelaide.edu.au

Received and published: 31 May 2014

This is a well written article that examines the extra benefits of sensing ozone in the Chappuis bands, in addition to the TIR. That the paper does not take into account the variation of the visible radiation due to changing surface properties is a weakness, but I don't consider it a fatal flaw. The paper is still valuable as a record of progress. In this light I think that the authors have taken into account adequately the criticisms that have been made.

I do have a short list of technical corrections and amendments that I would like to see

made before I consider the paper ready for publication.

P1653 line 25; "...incorporated into this method..." rather than "to this method" P1657 line 2; remove line break P1657 line 8; This sentence is unclear and possibly ambiguous - the width of the micro-window is (I think) intended to be 130 nm, but to say that the micro-window is "in this range" is to imply that it is actually narrower and is located within the 130 nm wide window. If the latter is correct, then this begs the question of where in this 130 nm wide interval the micro-window is located. P 1658 line19; delete "the" P1659 line 9 (and others); The definition of sensitivity is not given explicitly in the paper. Without this definition the paper is not sufficiently self-contained. Apparently this definition is in the reference to Rodgers, but this is to a book, not a journal article, and thus not so readily available to the reader.

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 1645, 2014.