

Interactive comment on “Diurnal variation of stratospheric HOCl, ClO and HO₂ at the equator: comparison of 1-D model calculations with measurements of satellite instruments” by M. Khosravi et al.

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Dear Patra!

The paper on "Chlorine partitioning in the stratosphere based on in situ measurements" by Patra et al. 1999 gives interesting result on the total inorganic chlorine and chlorine partitioning in the lower stratosphere (below 35 km). However, the focus of the current study by Khosravi et al. 2013 is on the diurnal variation of the short-lived chlorine species from middle stratosphere to the lower mesosphere. For this reason, the total

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chlorine profile from Nassar et al. 2006 which covers roughly the same altitude range (stratosphere to lower mesosphere) is more suitable for the initialization of model study presented in the paper by Khosravi et al. 2013. The other advantage of taking Nassar et al.'s total inorganic chlorine is that Nassar et al. has used satellite observations which provides a better coverage of the tropical region.

Kind regards,

Maryam Khosravi

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