

Interactive comment on “Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection” by R. P. Fernandez et al.

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Regarding the mercury pathway from my earlier comment; the identification of halogens (Br and I) invariably with Hg in aerosol sampled in the TTL (e.g. Murphy et al., 2000; 2006) provides strong evidence for a $\text{Hg} + \text{Br} \gg \text{HgBr}_2 \gg$ nucleation channel for Br from a ring/layer as proposed. Presumably the concentration of atomic Br is therefore likely to be more ‘fluid’ than the model predicts but with generally lower values than stated?

Murphy, D.M., Thomson, D.S. (2000) GRL, 27, 3217-20. Murphy, D.M., et al. (2006) ES&T, 40, 3163-7.

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