

***Interactive comment on “Temporal evolution of chlorine and minor species related to ozone depletion observed with ground-based FTIR at Syowa Station, Antarctica and satellites during austral fall to spring in 2007 and 2011” by H. Nakajima et al.***

**Anonymous Referee #2**

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there was a typo and a formatting issue in my review, therefore these two points are repeated:

C1

**General**

fig 10/11 shows  $Cl_y$  (MLS) relative to  $Cl_y^*$  (MLS  $N_2O$ ), even though that should be described more clearly. In the context  $Cl_y$  (without star) is defined as  $ClO + ClONO_2 + HCl$ . However, there are no  $ClONO_2$  observations of MLS. This needs to be clarified.

**Details**

9/24 "About 50% ozone depletion was seen throughout the polar vortex."  
This statement is inaccurate. Do you mean at the 50 hPa level equally from the vortex edge to the core? Or also at the other levels? It is at least rather hard to read a number of percentage ozone loss from this figure.

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