

# ***Interactive comment on* “Unusual chlorine partitioning in the 2015/16 Arctic winter lowermost stratosphere: Observations and simulations” by Sören Johansson et al.**

**Sören Johansson et al.**

soeren.johansson@kit.edu

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We thank referee 2 for valuable comments and suggestions. Our answers are given below. The original referee comment is repeated in **bold**, changes in the manuscript text are printed in *italic*.

<Minor Comments/Typos>

1) P.6, L.1: **CALIPSO satellite was launched 2006** → **CALIPSO satellite was launched in 2006**

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We changed the manuscript according to the referee's suggestion.

**2) P.6, L.6: McKenna et al., 2002b, a → McKenna et al., 2002a, b**

We changed the manuscript according to the referee's suggestion.

**3) P.6, L.8: initialized 1 November 2015 → initialized on 1 November 2015**

We changed the manuscript according to the referee's suggestion.

**4) P.6, L.18: comparison of CLaMS results to GLORIA and MLS → comparison of CLaMS results with GLORIA and MLS**

We changed the manuscript according to the referee's suggestion.

**5) P.7, L.1: analyses has been initialized 1 July 2015 → analyses has been initialized on 1 July 2015**

We changed the manuscript according to the referee's suggestion.

**6) P.17, Figure 8 caption: Colorbars → Color bars**

**7) P.17, Figure 8 caption: colorbar → color bar**

We changed the spelling according to the referee's suggestion.

**8) P.24, L.15: Fig. 12a1 → Fig. 12(a1)**

**9) P.24, L.15: Fig. 12b1 → Fig. 12(b1)**

**10) P.27, L.17: Fig. 12b2 → Fig. 12(b2)**

**11) P.27, L.19: Fig. 12e2 → Fig. 12(e2)**

We changed the format of the figure references according to the referee's suggestion.

**12) P.28, L.11: which is nearly all ClO at this time → which consists of ClO and Cl<sub>2</sub>O<sub>2</sub> at this time**

We changed the indicated text to: *which consists mainly of ClO, with small contribu-*

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tions from  $Cl_2O_2$  at this time. We think it is important to stress that the main part of  $ClO_x$  is ClO and only minor parts of  $ClO_x$  along this trajectory is  $Cl_2O_2$ .

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-1227>, 2019.

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