

Interactive comment on “Observation of unusual chlorine activation by ground-based infrared and microwave spectroscopy in the late Arctic winter 2000/01” by T. Blumenstock et al.

Anonymous Referee #3

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Referee #2 seems surprised about my judgement. I invite this referee to comment on Figure 4, in particular the part around mid-March where the ClO peak observed by MIRA is located. For me it is very clear that the observations disagree with the FTIR observations, which does not exhibit any enhancement in ClO. Unless I see things completely wrong. Given the fact that this paper is totally based on these observations, it is obvious for me that the paper cannot be published in the current state. I think it is crucial that the authors address this issue, as I have stated in my comments. I also recommended a re-submission if the authors successfully address this issue. I fully agree with the referee that a statistical analysis may help, but it is crucial that the

authors explain the disagreement in the first place.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 9993, 2005.

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