

Relations between cyclones and ozone changes in the Arctic using data from satellite instruments and the MOSAiC ship campaign

F. Monsees¹, M. Weber¹, A. Rozanov¹, J. P. Burrows¹,
A. Rinke², R. Jaiser^{2,3}, and P. von der Gathen²

¹Institute of Environmental Physics (IUP), University of Bremen, Bremen, Germany

²Alfred Wegener Institute Potsdam, Helmholtz Centre for Polar and Marine Research, Potsdam, Germany

³Department of Life, Light and Matter, University of Rostock, Rostock, Germany

monsees@iup.physik.uni-bremen.de

Author's Response

We thank the reviewer for the helpful feedback on our manuscript! The comment was implemented in the paper. Our response to the comment can be found below. The reviewer comment is given in red and our answer in black.

Referee #2

Figure 10: The legend is a bit confusing. I am assuming that the red bar in the legend is just to indicate cyclones that occurred during the Polarstern expedition. But given that it is red, and red corresponds to a specific strength of cyclone, it could be taken that only cyclones with that color were those that occurred during the expedition. You could remove the legend altogether since the figure caption adequately describes what is in the figure.

“Cyclones that impacted the Polarstern” was removed from the legend in Figure 10 for the stated reason. “Polarstern ozone sonde launches” was kept to make the figure for the most part self-explanatory.