

Atmos. Chem. Phys. Discuss., referee comment RC2
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Comment on acp-2022-52

Anonymous Referee #2

Referee comment on "Relationships linking satellite-retrieved ocean color data with atmospheric components in the Arctic" by Marjan Marbouti et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2022-52-RC2>, 2022

This manuscript presents unique measurements of a number of species in Ny-Ålesund, Svalbard islands, including MSA, SA, HIO₃, HOM and aerosols. The measured concentrations were linked to pelagic chlorophyll a (Chl-a) concentration and primary production (PP) in the Barents and the Greenland Seas. My major concern is that most conclusions were drawn only based on correlation analysis. For example, good correlation between MSA and SA concentrations suggests the same origin, marine DMS. These inferences are not rigorous enough.

Line 386: Typo, "difference sources of MSA" should be "different sources of MSA"