

The Cryosphere Discuss., community comment CC1
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Comment on tc-2021-216

Paul PUKITE

Community comment on "A strong link between variations in sea-ice extent and global atmospheric pressure?" by Jean-Louis Le Mouël et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-216-CC1>, 2021

I have a basic comment relating to correlations of a common-mode type. Consider Fig 5 with caption "The variation of Sun-Earth distance since 1978 (in black) is compared to the annual component of SHSI (in red). 330 (bottom) The phase difference between the two."

Why look at Sun-Earth distance when the simple seasonal cycle will likely give the same correlation? And surface atmospheric pressure relates to temperature most straightforwardly by the ideal gas law, which also shows a seasonal pattern. I don't understand pursuing these common-mode-related correlations.