

Earth Syst. Sci. Data Discuss., referee comment RC2
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Comment on **essd-2022-208**

Anonymous Referee #2

Referee comment on "The hourly wind-bias-adjusted precipitation data set from the Environment and Climate Change Canada automated surface observation network (2001–2019)" by Craig D. Smith et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2022-208-RC2>, 2022

"The hourly wind-bias adjusted precipitation data set from the Environment and Climate Change Canada automated surface observation network (2001-2019)" provides a concise, comprehensive description of a new data set resulting from the evaluation and adjustment of hourly precipitation data at 397 automated climate stations across Canada. The authors provide a strong introduction, summarizing the issues with solid precipitation undercatch and justification for adjustments to precipitation measurements under various wind speeds and station configurations. Data and supporting documentation are available through a link provided in the manuscript. The documentation and station catalogue are comprehensive and informative, and the data set is high quality, complete, and useful. This manuscript was very well written and a pleasure to review. I have a few suggestions for revision, outlined below.

Page 3, section 1.2. It would be beneficial to provide more background information on WMO-SPICE

Page 6, section 2.1. Additional stations were selected for proximity to AHCCD, as well as data quality and site longevity. What parameters or thresholds were used for data quality and site longevity?

Page 14, line 9. Define TF; be consistent between using 'TF' or 'transfer function' throughout the manuscript