

## ***Interactive comment on “Climatology and time series of surface meteorology in Ny-Ålesund, Svalbard” by M. Maturilli et al.***

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We thank Reviewer #2 for the supportive comments on our work.

We agree that the presented data have a high potential for scientific analysis. Nevertheless, as ‘Earth System Science Data’ is a platform for commented data publication, we have tried to focus on the technical dataset description rather than scientific analysis and interpretation.

Answers to Specific Comments:

(1) Flagging of key events in the metadata is worthwhile, and we will try to retrospectively incorporate this information as comments to the presented dataset. However, within the database the dataset is directly linked with the presented data paper de-

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scribing the key events. When storing future data, we will take care to directly include the information. In any case, suspect data are excluded from the data files.

(2) A similar dataset publication for the Ny-Ålesund BSRN radiation data is under work and will be submitted soon. So far, the according dataset is found at the Pangaea database ([www.pangaea.de](http://www.pangaea.de)) searching for ‘Basic and other measurements of radiation at station Ny-Ålesund’. We will add an according reference note to the revised manuscript.

(3) + (4) Visual synoptic observations and precipitation measurements in Ny-Ålesund are operated by the Norwegian Meteorological Institute. The accessibility of their data and time series is subject to NMI. Although we agree with the general idea of intense comparison with the NMI station data, it is out of the scope of this paper to evaluate the suitability of other datasets for trend analysis. Latent and sensible heat fluxes are measured using e.g. Eddy covariance at different sites in and around Ny-Ålesund, by several groups of various nations. Publication of their datasets is in the responsibility of the according project managers.

(5) As the whole data registration hardware and software has been modernized, and also some of the instruments have been exchanged, it will take a longer time period to identify the characteristics of inhomogeneity with the described dataset. We will take care to indicate all changes and document the continuity of the dataset by redundant measurements.

(6) Indeed, the presented data are intended to form the basis of such scientific analysis.

(7) We agree.

(8) will be changed accordingly in the revised version

(9) will be indicated accordingly in the revised version