

Interactive comment on “25 years of Cloud Base Height Measurements by Ceilometer in Ny Ålesund, Svalbard” by Marion Maturilli and Kerstin Ebell

Anonymous Referee #1

Received and published: 24 April 2018

This manuscript presents a good reference for an extensive dataset of cloud base height (CBH) measurements by ceilometer. CBH is a very important measure to estimate the downwelling longwave irradiance at the surface. This magnitude is mentioned in the manuscript in section 3.1. It would be interesting to include the specifications of the instruments (upwelling and downwelling) used. I would also suggest to include this magnitude averaged for cloudy cases in Figure 5. Additionally, because there are measurements from satellite (CALIPSO and CloudSat), I would suggest to compare for the available cases or at least some cases, the CBH measured from the ceilometer to those measured from CALIPSO and CloudSat.

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2018-48>, 2018.

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