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Interactive comment on "Long term Observations minus Background monitoring of ground-based microwave radiometer network. Part 1: Brightness Temperatures" *by* Francesco De Angelis et al.

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The paper provides a comprehensive overview of the errors associated with a network of ground-based microwave radiometers. The data are well presented and the observations in the study would be useful in future data assimilation for radiometers in NWP models. The paper could be accepted in the present form.

Just a couple of suggestions for future studies:

1) 3-hour forecast is used and it is not sure if the model has well spin up after 3 hours. In the future, also for a more global study, ECNWF analysis and forecast would be preferable.

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Discussion paper

2) suggest to include radiometers in other climates and geological locations, e.g. those in American, southern China and Korea/Japan

3) a longer period of data would be useful for studying the long term behaviour of the radiometers.

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