

## ***Interactive comment on “Forecast indices from ground-based microwave radiometer for operational meteorology” by D. Cimini et al.***

### **Anonymous Referee #1**

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The paper presents an interesting discussion about the performance and application of FI based on MWR in an operational setting for mid-latitudes. The results would be useful for reference by operational forecasters about the value of MWR-based FIs in these climatic regions.

Major comments:

One major limitation of the present paper is that the periods of FIs under study are rather limited - just limited to few months only. Is it possible to extend the period of the data? If not, please indicate in the paper that the present results are based on limited dataset only. It would be preferable if the data could extend over at least one year, namely, covering all seasons.

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A related question is what's the weather and climate conditions in which the data are obtained for the present study? It is not clear to the readers in other climatic regions about the weather conditions in which the data are obtained. The information about the weather conditions in which the data are obtained would be useful for reference of the readers about the weather conditions in which the present study would be applicable, and there may be follow-up studies in subsequent papers about the applicability of the results in other weather conditions.

Minor comments:

Please clarify whether the FIs in the study are deduced from the retrieved temperature and humidity profiles from the MWR, instead of retrieved directly from the Tb values.

p.6982, line 7 - "then" should read "than"

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Interactive comment on Atmos. Meas. Tech. Discuss., 7, 6971, 2014.

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