

## ***Interactive comment on “Mind-the-gap part I: Accurately locating warm marine boundary layer clouds and precipitation using spaceborne radars” by Katia Lamer et al.***

### **Anonymous Referee #3**

Received and published: 13 February 2020

This study clearly demonstrates the capabilities and constraints regarding spaceborne detection of the warm marine boundary layer (WMBL) clouds. This is crucial information in terms of the expected uncertainties in weather and climate projections and especially on the role of WMBL layers in radiation budget. The work is clearly written and the comparison between KAZAR–ARM ground based and CloudSat radars provides significant insight on the expected products from EarthCARE and ACCP missions as well as possible recommendations for future missions such as the combination of both short and long pulse modes for detecting WMBL clouds along with their macro-physical properties. Therefore I recommend publication of this work in Atmospheric Measurement Techniques.

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-473, 2020.

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