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Atmospheric Measurement Techniques Discussions

Interactive comment on "The detection of cloud free snow covered areas using AATSR measurements" *by* L. G. Istomina et al.

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We do realize that inversions might be able to introduce a bias in measured brightness temperatures in thermal IR; however, we assume this bias to be corresponding to the temperature of the inversion layer and therefore constant within the discussed channels. So, the reflectance part of 3.7 μm channel, which is the key of cloud detection, stays unchanged and allows the algorithm to perform as described in the manuscript. Obviously, cloud free cases are also not affected by a constant bias, due to relative thresholds analysis.

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 1099, 2010.