**Atmospheric
Measurement
Techniques
Discussions**

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

Anonymous Referee #2

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I am glad to see that the authors altered the figures to make the scene presented more clear. It is now much easier to see the scenes in question and evaluate how the algorithm performs.

This is an overall well written paper that gives good overview of the algorithm. I have just one question left to ask. The algorithm relies on thermal IR channels. Have the authors done any studies to examine algorithm behavior in the presence of temperature inversions? Significant temperature inversions are very common in polar regions and are capable of introducing significant uncertainty in ground feature identification.

Otherwise I don't have much to add from what I've said previously.

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