

Interactive comment on “Retrieval of cloud spherical albedo from top-of-atmosphere reflectance measurements performed at a single observation angle” by A. Kokhanovsky et al.

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Answer to the anonymous referee 3: 1. Eq. (6) can be used only for first guess estimations. Eqs. (2) and (4) must be used for accurate derivations. Then the phase function is fully taken into account. 2. The crystalline cloud was investigated in the paper (p.2180, line 5). The accuracy of the retrieval is increased if the phase of a cloud is known. This information can be obtained from thermal channels. 3. The spherical albedo for the hurricane studied has not been derived by others. Therefore, we can not make any comparisons. The accuracy of our technique is very high at cloud optical thickness larger than 10 as confirmed by Fig. 2b.

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