

Interactive comment on “Unmanned Aerial System nadir reflectance and MODIS Nadir BRDF-Adjusted surface Reflectances intercompared over Greenland” by John Faulkner Burkhart et al.

Anonymous Referee #2

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This is a novel, pioneering and worthwhile comparison of nadir surface reflectance from a Unmanned Aerial System in comparison with satellite (MODIS) albedo data. This study should be of wide interest to the Greenland Ice Sheet glaciological and remote sensing communities. In general, I concur with the comments of Referee 1. In addition, the writing style can occasionally be tightened/ page 1, line 7: rephrase "allowing to integrate directly to". p.1, l.7: "The data PROVIDE a unique opportunity to...". p.2, l.12 should be "INTERGOVERNMENTAL Panel on Climate Change". p.3, l.6: "Ryan et al. (2016) HAVE attempted to..." p.3, l.25: "we discovered THAT the application of UAS..." p.11, l.29: "We note a value of..." (no comma). p.13, ll.4 & 5: "the UAS observations are larger overall" AND "the MODIS data may in fact provide values

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slightly lower than..." - give actual values/differences and say whether these are significant. p.14, l.2: "time scales" -> "timescales". In addition, I recommend a tabulation of some of the more quantitative aspects of the comparison of nadir reflectance from the two types of platform, that are reported on pages 9 & 10 and in Figures 5 & 6.

Interactive comment on The Cryosphere Discuss., doi:10.5194/tc-2016-264, 2016.

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