

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

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1 General Response

We appreciate the reviewers acknowledgement of the contribution this work is making toward MODIS validation and improvements as well as the development of UAS for scientific applications.

C1

2 Specific Comments:

In addition, the writing style can occasionally be tightened/ page 1, line 7: rephrase "allowing to integrate directly to".

Corrected.

p.1, l.7: "The data PROVIDE a unique opportunity to...".

Corrected.

p.2, l.12 should be "INTERGOVERNMENTAL Panel on Climate Change".

Corrected.

p.3, l.6: "Ryan et al. (2016) HAVE attempted to..."

Corrected.

p.3, l.25: "we discovered THAT the application of UAS..."

Corrected.

p.11, l.29: "We note a value of..." (no comma).

Altered text.

p.13, ll.4 & 5: "the UAS observations are larger overall" AND "the MODIS data may in fact provide values slightly lower than..." – give actual values / differences and say whether these are significant. Addressed.

p.14, l.2: "time scales" -> "timescales".

Corrected.

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.

Per RC1 we have replaced Table 1 with a new table tabulating the information discussed in the text.

C2

C3