

### Reviewer's comments

The authors of "Components of near-surface energy balance derived from satellite soundings: I. Midday net available energy" have fully addressed the points raised by both referees. Especially, I appreciated the addition by the authors of the validation of the methodology applied directly on local measurements. I therefore recommend the publication of the paper. I have only a few technical corrections to suggest.

**We thank the reviewer for the wonderful suggestions that substantially improved the manuscript.**

- Abstract, l.28: change "surface, system heat" into "surface system heat".

**Reply: Corrected now**

- Methodology, satellite datasets (P6), l.144: please mention the justification of using MODIS albedo ("AIRS does not contain albedo field" (from authors' reply).

**Reply: A sentence is added now in line 144 (AIRS data does not contain any surface albedo field).**

- P11, l.270-273: consider revising the sentence.

**Reply: The sentence is revised as 'Therefore, although the theoretical approximations in equation 8 and 10 (a, b) seems to be somewhat coarse and might have few limitations (as described earlier), but Figures 2, 3, and 4 indicates strong connectivity between  $\Delta T_s$ , 1:30 hours  $R_N$  (or  $R_{NL}$ ) and 13:30 hours  $\Phi$ .'**

- p.17, l.454: change "RS\_needs" to "RS needs".

**Reply: Corrected now.**