

This manuscript presents an UAV-based dataset collection of forest structure over two vegetation transition zones of Siberia, Russia. This dataset can support forest carbon dynamic studies and machine learning based land cover mapping. However, the manuscript is poorly written and read like a technical report.

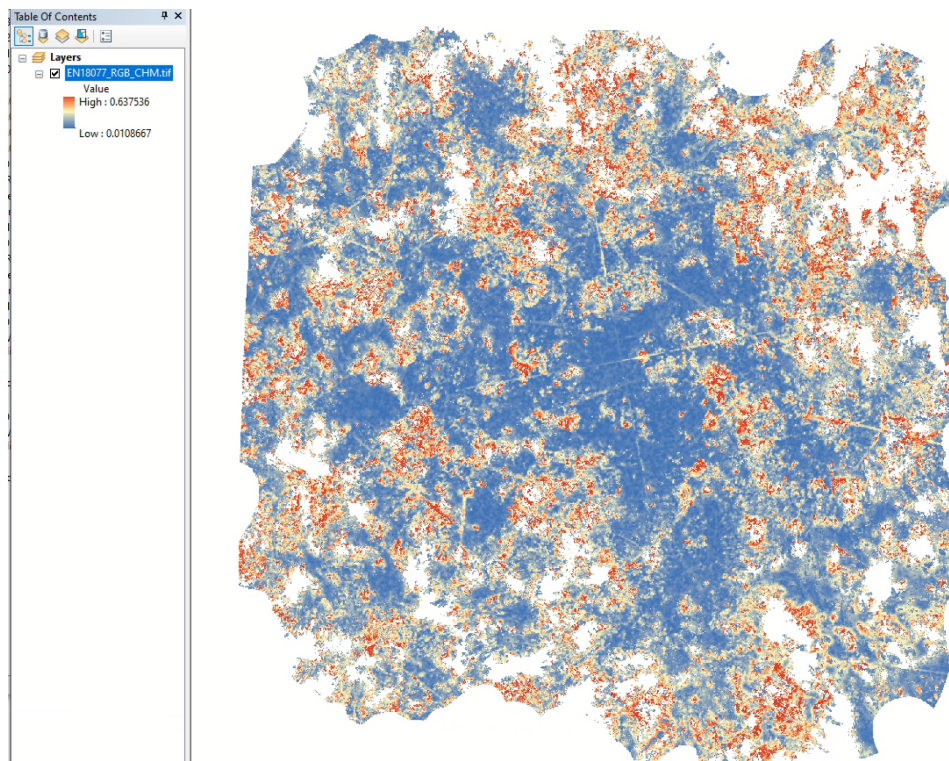
**Is the data set significant – unique, useful, and complete?**

I think this dataset is definitely unique given the data scarcity over boreal forest region. However, this data set misses a very important information about acquisition date as this is quite important to match satellite images to avoid phenology impacts.

**Is the data set itself of high quality? Is the data set publication, as submitted, of high quality?**

I think the data set itself is not as good as the one presented in the manuscript.

I downloaded the datasets and checked some plots, and could not reproduce the same results. For example, the CHM of plots EN18077 shows CHM range and spatial pattern very different from Figure 13 in the manuscript.



**Specific comments:**

L82. Forest could also be a C source especially has been disturbed recently.

L224, it will be great to provide the specific measurement dates for each plot or least given date range for these two transition zones. Time information sometimes is equally important as geographical coordinates.

L245, what rules were used to select the minimum of 10 individuals. considering the largest 10 ones?

L246, EN1814 and EN1865 are not found in Table 1. Are they EN18014 and 18065?

L303, "... using a Cloth Simulation Filter (Zhang et al., 2016) ..." has been explained in L273. Please describe the generation of groundonly and treeonly processes only once. Same thing to "Agisoft PhotoScan Professional" in L289 and L267.

L310, 'in R..' is also mentioned in L290. Please remove the repeated information.

L323-330, were photons of all plots taken the same day? If not, was there any corrections to photons to match color histogram between plots? Please make this clear.

L348, why mentioned "... during the two-month fieldwork expedition in 2018 (Kruse et al., 2019).." here again since it has been introduced in L224? Were they different expeditions?

L334, I think the affected plots are not just these three. For example, RGB orthomosaics for plot EN18000 have many blurry parts over the canopy of some trees. BTW, EN1878 and EN1879 are not listed in Table 1. Missing a digit?

L343, please mention that some plots do not have even Q1 shapefiles (e.g., EN18007).

L460, what is the unit of RGM\_CHM file? I checked the EN18077\_RGB\_CHM.tif file and the pixel value ranges from 0.0108667 to 0.637536, which is quite different from Figure 13.