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Interactive comment

## Interactive comment on "Recent above-ground biomass changes in central Chukotka (Russian Far East) using field sampling and Landsat satellite data" by Iuliia Shevtsova et al.

## **Anonymous Referee #1**

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The research results presented by Shevtsova et al in the manuscript "Recent above-ground biomass changes in central Chukotka (Russian Far East) using field sampling and Landsat satellite data " make a great contribution to understanding the response of terrestrial ecosystems to climate changes in a relatively poorly studied region of the Subarctic, in particular, on the level of biomass accumulation of plant communities. Although the methods and approaches used in the collection of materials and their analysis in the study of such phenomena are valid in general, but additional clarifications are required in some points before manuscript will be published finally. Thus, on lines 94-95 it was written and on Fig.2 was demonstrated that each sample plot is round and has radius 15 m, but in Appendix A it was written on lines 468, 487, 531,

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were taken or was it difficult to do it for some reason? It is well known that larch trunks are usually well accessible for measuring their diameters. On line 329 - I agree with

the statement that the diameter and height of trees usually correlate well with each other. And if such data were obtained, it will be great to demonstrate them in Appendix. Also, in order to be sure of the accuracy of the measurements of the biomass of trees through their height, it would be good to compare the total trees AGB calculated using the height and diameter. This is also connected with the fact that the authors of the manuscript themselves in the "Discussion" indicate some discrepancies with the data of other researchers, and therefore, in order to prove the accuracy of their calculations, such a comparison must be made. In general, in my opinion, scientific results and conclusions presented in a clear, concise, and well structured way, but in Fig. 1, it is desirable to change the color of the line denoting treeline to a more distinguishable one against the main green background, for example, red.

Please also note the supplement to this comment: https://bg.copernicus.org/preprints/bg-2020-416/bg-2020-416-RC1-supplement.pdf

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