**Interactive comment on “Dielectric database of organic Arctic soils (DDOAS)” by Igor Savin et al.**

Anonymous Referee #2

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This paper presents a dielectric database of organic Arctic soils from four different Arctic regions. Measurements of refractive index and normalized attenuation coefficient were made over a range of frequencies and over a range of soil moisture and temperature. This database has been made available to the community and will be very useful for scientists developing new soil dielectric models and for improving satellite soil moisture retrievals in Arctic regions where soils have a high level of organic matter.

Overall the paper is well written and provides the necessary references. The only thing missing is a comparison and discussion of the different soils. Results are presented for one of the soil samples (MS1), but no comparison is made for the measurements of the other six soil samples. Table 1 gives the properties of the different soil samples, and there should be some discussion of how these different soil properties impact the results shown in figures 2 through 7.
Some minor corrections:

The identifier on the map in Figure 1 “IS” should be changed to “SI”.

The captions for figures 2 through 7 should identify the soil sample used to obtain measurements that are presented (MS1).