

Interactive comment on “Dielectric characterization of vegetation at L-band using an open-ended coaxial probe” by Alex Mavrovic et al.

Anonymous Referee #2

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This paper’s objectives are to present a probe to measure the dielectric constant at L-band and to measure the dielectric constants of trees. The topic is very interesting as there are only a few attempts to measure the dielectric constant of trees whereas it is crucial for L-band mission. This paper is well written and the Figures are clear, the authors have made a noticeable effort, which is appreciated.

The paper is recommended for publication with minor changes. Section 2: it is already part of the method which is section 3. The two sections should be combined. One part can present the probe, another the protocol to validate it, and a last one a protocol to collect measurements of the trees. Figure 6: do you have any explanations for the change in the behavior of the imaginary part (around 1.3 GHz). The measurements are higher than the model before, and lower after that. Section : Probe

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depths. “samples of thickness greater than 10 mm” The sentence is not very clear. So is it the minimum distance within a trunk between 2 measurements?

Minor comments: - Equation 1. Under equation 1) , line 7, f is presented but is not in the equation. Has it been forgotten? - Page 9, line 1 to 6. The same idea written twice, it can be simplified. - 2 equations 5 - Figure 2: switch and and - Update reference of Pappas et al. 2018

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