Geosci. Instrum. Method. Data Syst. Discuss., https://doi.org/10.5194/gi-2018-9-RC2, 2018 © Author(s) 2018. This work is distributed under the Creative Commons Attribution 4.0 License.



GID

Interactive comment

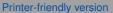
## *Interactive comment on* "Dielectric characterization of vegetation at L-band using an open-ended coaxial probe" by Alex Mavrovic et al.

## Anonymous Referee #2

Received and published: 11 April 2018

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 2Åä: 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 6Åä: 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



**Discussion paper** 



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 commentsÂă: - Equation 1. Under equation 1), line 7, f is presented but is not in the equation. Has it been forgottenÂă? - Page 9, line 1to6.ÂăThe same idea written twice, it can be simplified. - 2 equations 5 - Figure 2Âă: switch ÂńÂăa)ÂăÂż and ÂńÂăbÂăÂż - Update reference of Pappas et al. 2018

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., https://doi.org/10.5194/gi-2018-9, 2018.

## GID

Interactive comment

Printer-friendly version

**Discussion paper** 

