

## ***Interactive comment on “BVOC emissions from English oak (*Quercus robur*) and European beech (*Fagus sylvatica*) along a latitudinal gradient” by Ylva Persson et al.***

**Anonymous Referee #1**

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The paper from Person et al has been shown the emission of BVOC from two different tree species. The authors underline that BVOC emission spectra remain somehow constant along quite a high gradient. This conclusion is quite important for modeling studies as usually for small gradients variation in emission is not introduced in the models. Anyway, overall is a very nice paper which fit in the scope of the journal. There are few corrections which could be done: I have a concern regarding to the very limited number of trees available. - p. 2 L25: paragraph Isoprene has..... should be re-written Materials and methods How the daily PAR had been calculated? This is very important. Why the assimilation rates are low? I could guess this is due to the fact that only leaves from lowest branches. It has been shown that assimilation rate and BVOC

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emission scale with the heights (see Niinemets et al. JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 115, G04029, 2010). Other problem is the stress induce on the leaves which could increase BVOC emission.

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C2