

***Interactive comment on “Volatile diterpene  
emission from dominant conifers in Japan” by  
S. N. Matsunaga et al.***

**Anonymous Referee #2**

Received and published: 5 September 2011

A major problem of this manuscript is that the authors do not know the right way to measure and calculate the emission rate using a enclosure method. The authors better consult related papers or textbooks for the right method. The equation (1) in the manuscript is completely wrong. If measuring the emission rate by dynamic enclosure method, the emission rate should be as  $E=Fx(C_{eq} - C_0)/W$ , where  $F$  is the flow rate of air supply,  $W$  is the dry weight of leaves, and  $C_{eq}$  and  $C_0$  are equilibrium-state concentration and blank concentration, respectively. Typically  $C_0$  is negligible. If we have  $F$  and  $W$ , we need just to measure  $C_{eq}$  for the emission rate. Since the authors are wrong with their emission rate measurement, their discussion and conclusions are therefore also wrong. I can not agree to the publication of this manuscript at its present state.

---

C2860

Interactive comment on Biogeosciences Discuss., 8, 6681, 2011.