

## ***Interactive comment on “Application of a computationally efficient method to approximate gap model results with a probabilistic approach” by M. Scherstjanoi et al.***

**M. Scherstjanoi et al.**

marc.scherstjanoi@wsl.ch

Received and published: 9 June 2014

### **Additional authors’ changes**

Page 1542, lines 4/5

" , which lead to a simulation setup containing more than 32.000 cells stands."

replaced with

" , which led to a simulation setup containing 32.214 cells."

C866

Page 1543, lines 17-20

For better readability we replaced

"In the following we will refer to it as the adjusted parameter set. To this set, we additionally added the three new species *Larix decidua*, *Pinus cembra* and *Pinus mugo* as described in Scherstjanoi et al. (2013). This includes..."

with

"To this set, to which we will refer to as the adjusted parameter set, we additionally added the three new species *Larix decidua*, *Pinus cembra* and *Pinus mugo* as described in Scherstjanoi et al. (2013). The fine-tuning of LPJ-GUESS includes..."

Page 1547, lines 23-26

"The two newly parameterized species appeared at higher elevations. *Larix decidua* biomass increased gradually from the lower montane vegetation zone up to the subalpine zone. The occurrence of *Pinus cembra* was restricted to the subalpine zone."

replaced with

"Two of the three newly parameterized species appeared as main species: *Larix decidua* with gradually increasing biomass from the lower montane vegetation zone up to the subalpine zone and *Pinus cembra* restricted to the subalpine zone."

Page 1550, line 21

"32 214 grid cells"

C867

replaced with  
"more than 32.000 cells"

Page 1551, line 23  
added "when"

Page 1551, line 23  
"leads" replaced with "led"

Page 1552, line 20  
added citations for InfoFlora and NFI

Page 1554, line 6  
Instead of "tc\_max" we now use "the maximum 20-year coldest month mean temperature for establishment" to avoid a mix-up with the variable name tc\_max\_e.

Page 1555, lines 14-16  
deleted the sentence: "In contrast, *Quercus robur* and *Pinus sylvestris* benefited from the reduction of *Fagus sylvatica* biomass in the lower and the decrease in the higher elevated part of the Central Plateau." because it was out of context.

Page 1557, line 1

C868

"on a large scale" replaced with "on a larger scale"

Table A.10  
Made some changes to caption and fixed entries in row tc\_max\_f.

Text, Figures and Tables  
replaced "Southern, Southwestern, Northern..." with "south, southwest, north..." (except "Northern Europe" and "northern treeline")

---

Interactive comment on Geosci. Model Dev. Discuss., 7, 1535, 2014.

C869