Second Review of

"Evolutionary rescue in a mixed beech-fir forest: insights from a quantitative-genetics approach in a process-based model"

Louis Devresse, François de Coligny, Freya Way, and Xavier Morin

PCI Ecology

The manuscript has been considerably improved. The introduction and the methods clearly define the objectives of the manuscript. The figures and their interpretations have been improved. However, I could not locate the revised supplementary material, which prevented me from reviewing the changes. I only have a few comments regarding this new version of the manuscript.

Abstract: "adaptation measures" could be replaced by "management actions" as measures are not always adaptive

Table 1: To help the reader, I would add a description of the parameters instead of citing Morin et al. (2021).

l.218-219: If VR is the same for all species in an evolutionary scenario, how can it be that in an assisted migration scenario with a total of 10 species, VR can be greater than 0.1?

l.345-346: is there a problem with this sentence?

L. 351-354: could you explain how age at maturation affects the evolutionary rate?

Eqn 3: in the sum, is the first term multiplied or divided by AM_s? if I am correct, the first term is usually multiplied by 1/nb.gen with nb.gen the number of generations and nb.gen=1/AM_s

l.424: "in contrast with" -> "in contrast to"

l.447: "beech is expected to grow more slowly due to its lower gs": is this statement based on initial values presented in Table 1?

Throughout the main text, ensure a consistent notation for drought tolerance. It is sometimes represented as DrTol and other times as Drtol (for instance, line 429).

l.489: citation should have parentheses

l.524-526: I think it should be made clearer that in a scenario with water competition, climate and competition would select the trait in the same direction (in contrast to the current scenario).

l.534-536: "without any apparent drawbacks emerging in our framework". Is this statement correct? I understood that under "assisted gene flow" the genetic correlation and competition played a more decisive role than increasing genetic variation in DrTol.

I don't think the creation of a seedling and its transition to adulthood is described in the main text. Some elements from the response to Reviewer 2 L107 should be included in the main text such as: "A new tree "appears" in the simulation at year n with a height greater than 1.3 meters, and is no longer considered a seedling at the year n+1."