

Reply

Very happy the article were accepted by Biogeosciences on Chinese New Year. Happy New Year to the editors and the two Referees. The Referee 1 carefully found 3 grammatical problems of the article. We thank he/she again and have modified them as follows:

Question 1 : L 122: "early stages"

Answer 1: Revised

Question 2 : L 139: please add "typified" between "textures" and "in the model".

Answer 2: Revised

Question 3 : L 276-281. Please revise this entire passage for its grammar. For example, "The SiBcrop model was modified to be more cold-tolerant (section 2.3.1), which causes the sowing date to be less controlled by temperature...".

Answer 3: the passage was changed into: "The winter wheat submodel in the SiBcrop was modified to be more cold tolerance (section 2.3.1), which caused the sowing date was less controlled by temperature. Therefore, the sowing dates were less constrained by climate difference among widely distributed stations. Our previous study showed that the delayed sowing date of winter wheat was mainly caused by the delayed harvest of maize (Xiao et al. 2013), which means the phenology of winter wheat was more affected by the previous crop than the climate in the NCP. The sowing dates in the two scenarios are within the climatological average of the region, indicating the reasonable choice of simulation scenarios."