Comments

I have thoroughly reviewed the manuscript "Developing Spring Wheat in the Noah-MP LSM (v4.4) for Growing Season Dynamics and Responses to Temperature Stress." All the comments have been incorporated well and improved the quality of this manuscript. Overall, it is a very good piece of work. The authors have conducted a comprehensive study that significantly contributes to understanding spring wheat growth and its response to temperature stress in the Noah-MP LSM. With a minor revision this paper is good to publish.

Previous comment:
In section 2.3, it is important to note that the Y-axis in figure 2b represents V(T) and not f(TV), and the equation for the blue line is Wang 2017, not Wang-Engel (1998). Additionally, the plots in figure 2 should be labeled as a and b, and the Y-axis labels should match the text. Furthermore, the manuscript's novelty is the new heat stress function, but it is not adequately explained. Therefore, it is essential to provide a detailed scientific explanation of the function to help readers better understand it.

Follow up on the comment:

With the added equations making the comparison between temperature stress function f(TV) and Rubisco capacity ($Vcmax25$) parameter responses to temperature V(TV) in default and old function is possible. TV is defined as canopy temperature. Default and modified f(TV) are represented by eq. 5 and 7, respectively; similarly, for V(TV), it is eq. 6 and 9.

However, the respective figure (Figure 2) has different X and Y axis acronyms defined nowhere. The X-axis (f(TV) and V(TV)) and Y-axis (TV)degree Celsius) labels in Figure 2 should be consistent with the corresponding equations for consistency and clarity.