

- Title/Abstract: The new title puts the focus on the climatologies when they are more a by-product of the improved methodology. The abstract especially is missing any climatological results. Please remove this discrepancy by adapting the title (replacing the colon by "and" would already go a long way) and Abstract (add a couple sentences on the climatological results, if necessary at the expense of some detail on the methodological adaptations).
- Figures: Add "UTC" to datetimes in the captions.
- Figure 2: The legend to me implies that each line represents a season (e.g., DJF in blue), so I first thought three years were shown, when in fact each line corresponds to one month but the three months of each season are colored the same. Listing each month separately in the legend would resolve that. Also, the horizontal dotted lines are almost invisible (printout); change that, and list the latitude values in the caption.
- Figures 7/10: Consider shortening the caption to "... (a--d) cold fronts and in (a,e) DJF, (b,f) MAM, ...". Either way, don't unnecessarily capitalize "cold fronts" and "warm fronts".
- Lines 5/6: "Smoother fronts with fewer breaks" doesn't necessarily sound like a drawback of the original method. Please reformulate to express why "distorted fronts with many breaks" are actually more desirable (as implied by the sentence).
- Line 15: Add references for "modelling" as well as more than one for the "numerous" case studies.
- Line 78: Consider introducing an acronym for "Hewson (1998)", e.g., "H98", given how often it's referenced in the text.
- Line 103: Use "ABZ" or don't define it in the first place.
- Line 109: Use "K3" in Equation 4 (like K2 in Equation 3).
- Line 115: The descriptions of the two approaches are a bit hard to follow. Refer to Figure 1 at the beginning of each description so the reader is aware of this visual aid while reading the text. Also, consider naming the equations when referencing them (e.g., (1) TFL, (2) TFP, (3) "ABZ", (4) "front speed"; "... that satisfy the TFP Equation 2 to form a mask (the ABZ criterion in Equation 3 is ...)" so the reader is spared from memorizing the equation numbers or jumping back and forth in the text.
- Line 156: The presented method uses "three parameters", but that's not necessarily true of "front identification" methods in general.
- Line 199: Capitalize Northern/Southern Hemisphere (here and elsewhere).
- Line 206: Add references for "previous studies".
- Line 273: To what degree is the "increase by almost 100%" due to larger vs. newly identified fronts? Add an estimation if you can provide one, or at least mention that both effects play a role (assuming that's the case).
- Lines 288/289: I had to look up "horse latitudes". Consider a more common term (unless you deem this common knowledge). Also, define "ITCZ" at first use (currently the definition is on line 309).
- Lines 294/295: Please discuss why cold fronts are more common in SH summer than winter when the opposite is true in the NH (while frontal precipitation nevertheless peaks in SH winter; see editor's remark and your response to it).
- Line 308: It is unclear whether the increase is in the range of 20--40%, or whether the increase is by 20% from 20% to 40%. Please reformulate.
- Discussion: Please revise the text, as it's in a markedly rawer state textually than the rest of the paper.
- Line 328: Given NCL is mentioned for the old implementation, also mention R for the new one.

- Lines 342/343: Either remove the sentence "Computational performance ...", or move it to the earlier paragraph where the performance improvements are discussed.