

Dear Authors,

Thank you for taking my and the other reviewer's comments and suggestions with care and addressing them one by one. I only have a few minor technical edits/suggestions that are provided below. Provided these technical edits are address I accept this paper for publication. Thank you.

Technical Edits:

Line 32: "sizes" to "size".

Line 33: "durations" to "duration".

Line: 34 remove "now".

Line 37: remove "already"

Line 46: "depend" to "depends".

Line 100: "of" to "is a"

Line 123: What do you mean by "decimated"? Did you cherry pick every 30th image, or did you use a window mean on every second of data? I'm working on a dataset right now and these differences are showing up in the final results.

Line 162: "An own"? Perhaps replace with "We developed a method,.. " or something of the sort.

Line 174-175: Incomplete sentence "...the perturbed and template images is achieved."

Figure 3: Does the colorbar in (d) go with (c)? Or are these colors just representing shape? It seems like the structure annotated in (d) has a mean negative temperature, but based in the colorbar in (c) this structure would have a mean positive temperature. Maybe just make a note in the caption that says (c) only represents the shape of the structure.

Line 244: "1-m"

Line 278: Comma "... , as well as"

Line 292: put the equation in paratheses ($=\overline{w'T'}$)

Line 316: Comma "complex,"

Line 341: "The information provided in Fig. 5 is visualized spatially in Fig. 6." Isn't figure 5 the spatial standard deviation of T' written in line 329, and figure 6 is the temporal standard deviation of each pixel?

Section 3.4: This is my favorite section. Good work!

Line 430: Just make sure you're consistent with putting your variables in italics

Line 472: "14-m" Use a dash when using numbers as an adjective.

Line 523: Recording was at 30 Hz? Or are you saying the inertial subrange is captured with 10 Hz measurements?