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## ***Interactive comment on “Detection and thermal description of medicanes from numerical simulation” by M. A. Picornell et al.***

### **Anonymous Referee #2**

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The paper presents an application of the phase diagram diagnostics to four well-known medicanes. The main result is that the diagnostics when applied to well-simulated medicanes correctly show a symmetric, deep warm core associated with the medicanes.

**Specific comment** Despite their name, medicanes are not necessarily characterized by 10-m wind speed overcoming the 32 m/s threshold, i.e. the hurricane-level intensity. Most of them are pseudo-tropical storms with wind speed reaching 17 m/s or more. This point should be clarified in the introduction. Furthermore, the time evolution of the maximum wind speed associated with medicanes should be shown as it is classically done for tropical storms.

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