

Although my previous concerns have been well addressed and the manuscript has been revised accordingly, I noticed several remaining issues. These do not diminish the value of this work, but I encourage the authors to address them prior to acceptance.

Specific comments

1. Line 63: "...in shaping extreme events Lafore et al. (2017); Peyrillé et al. (2023). → "...in shaping extreme events (Lafore et al., 2017); Peyrillé et al., 2023)."
2. Lines 74-75: Could the authors please clarify this statement? The dependence of impact on distance remains unclear.
3. Line 91: "(2018), that..." → "(2018) that..."
4. Line 130: "...in table 1." → "...in Table 1."
5. Line 150: What is the "R coefficient"?
6. Lines 168-169: "...Figure 2-b and c show..." → "...Figures 2-b and c show..."
7. Lines 178-179: This statement would benefit from supporting references to demonstrate that the MJO was in an active phase during the specified three-week period.
8. Line 196: Please provide an explanation of "cycles per day (cpd)", either here or in the caption of Figure 2, to aid reader understanding.
9. Line 198: "...Figures 2b and Fig. 2c..." → "...Figures 2b and 2c..."
10. At the bottom of Figs. 1b and 1c, "WESTWARD" overlaps with "Zonal Wavenumber". Please make the necessary adjustment.
11. Line 215: "figure 3" → "Figure 3"
12. Line 243: "Figures 4b and c show" → "Figures 4c and d show"
13. Line 244: "of Matsuno (1966))" → "of Matsuno (1966)"
14. Figure 4: Please explain the unit of wind vectors.
15. Figures 4c and 4d: According to Figs. 4a, 4b, and 5, I believe the humid (dry) phase associated with the Kelvin wave should be shown in Fig. 4c (4d) rather than Fig. 4d (4c).
16. Kindly refer to the figures with more precision.
 - ① Line 287: "(Figures 6 and 7)" → "(Figures 6c and 7c)"

- ② Line 301: “(Figure 7)” → “(Figure 7b)”
- ③ Line 309: “(see Fig 6 c and d)” → “(see Fig. 6d)”
- ④ Line 309: “(see Fig 7 c and d)” → “(see Fig. 7d)”
- ⑤ Line 342: Which Figure result are you referring to?

17. Lines 297-299:

- ① A left bracket appears in Line 298, but I could not find the corresponding right bracket.
- ② I could not see significant southerlies over the continent in the Kelvin humid phase (Fig. 4d).

18. Line 332: “...dew-point.Schlueter...” → “...dew-point. Schlueter...”

19. Line 340: “Figures 8d,e and e” → “Figures 8d,e and f”

20. Figure 8: I am confused about the labels and captions. Top of Fig. 8b (8c) shows “ER- Latitude (10-15)” (“ER- Latitude (15-20)”), whereas the caption of Fig. 8 states: “(b) AEROIASI vertical dust extinction composite for the humid and dry phases of ER wave on IASI North Zone. (c) Same as (b) but for IASI South Zone.” It seems the labels or captions for Figs. 8b and 8c might be swapped. In addition, there is no description of the phase represented by the line colors. This should be added for clarity.

21. Caption of Figure 9: “Number of days in IASI North Zone in dry (resp. humid) phase: 19 (resp 20). Number of days in IASI North Zone in dry (resp. humid) phase: 17 (resp 14).” It appears that the statement is repeated, or alternatively, one of them is intended to describe the South Zone. The same issue is present in the caption of Figure B1 as well.

22. Line colors in Figures 6-9 and B1: Many people are red-green colorblind, so please choose different colors.

23. The caption of Fig. 10 states that the values are averaged between 0°N and 20°N; however, Line 371 indicates “between 5°N and 20°N”. Could you clarify which one is correct?

24. Lines 370-377: A statement describing the results of the Kelvin waves (Fig. 10a) appears to be missing and should be included for completeness.

25. Line 418: "...kelvin waves..." → "...Kelvin waves..."
26. Line 508: "...TC development Hanks et al. (2015); Duvel (2021); Jonville et al. (2024a)..." → "...TC development (Hanks et al., 2015; Duvel, 2021; Jonville et al., 2024a)..."
27. Figure 11: There is no description of the bar at the bottom of the figure; this should be added to the caption for clarity. In addition, the figure itself does not include the labels '(a)' or '(b)', even though they are referenced in the caption.
28. Figure B1: There is no description of the phase represented by the line colors. In addition, as I mentioned in my previous recommendation, the line labels below panels (a) and (b) are inconsistent. Specifically, the dashed lines below panel (b) should represent the dew point (see below).

