

# ***Interactive comment on* “Characteristics of high monsoon wind-waves observed at multiple stations in the eastern Arabian Sea” by M. M. Amrutha and V. Sanil Kumar**

## **Anonymous Referee #1**

Received and published: 13 December 2017

Review of Manuscript os-2017-84 “Characteristics of high monsoon wind-waves observed at multiple stations in the eastern Arabian Sea” by Amrutha and Kumar”

Recommendation: Reject

Fundamentals: I am afraid that based on only 1 month wave data and reanalysis data, it is not feasible to characterize the impact of the monsoon on the wave field in the area. Then this would be a case study, which does not seem to be the case. I am afraid the study has way too many flaws and inaccuracies to be accepted as a publication.

Several parts of the methodology are not well explained on introduced into the research context.

Several parts of the text are confusing and meaningless.

Additional comments:

Abstract: Confusing. Not really an abstract from the academic requirements P1L7: Why is this specific month a typical Indian summer monsoon month? P1L16: Numerical wave model? Maybe reanalysis. P1L25: What are monsoon waves? P1L6: Why bringing the Rayleigh distribution into the discussion (introduction)? P2L19: WAM does not mean wave action model. P3L10: waves are surface perturbations of the still water level, not the mean water level (those are tides). P3L17: What are percentile wave spectra? P3L19: Below or above? P4L6/L12: The ERA-Interim resolution is not 0.5 dgrs. P4L28: How do u separate wind sea and swell? How do you know this is just swell? P5L25: What are theoretical values? P5L29/30: What are Andrea and New Year waves? P6L15/L16: “The study shows that the influence of sea surface wind speeds on wave heights is significant during the monsoon”. And we didn’t know that before? And do you really show that by using just 1 month? P6L17: “. . . Predominantly swells”? How do you know? Speculative. P7L16: The wind field in the area is way richer than that, and the Findlater jet is just part of it. Please investigate the role of the Oman coastal low level jet.

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Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2017-84>, 2017.

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Discussion paper

