

Interactive comment on “Wave spectral shapes in the coastal waters based on measured data off Karwar, west coast of India” by M. Anjali Nair and V. Sanil Kumar

Anonymous Referee #2

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Review of the manuscript os-2016-91: “Wave spectral shapes in the coastal waters based on measured data off Karwar, west coast of India” by Anjali Nair M., Sanil Kumar V.

The manuscript presents a compressive study of the wave regime on the west coast of India, based on in-situ buoy observations collected from a wave rider buoy, where the different spectral shapes, due to the monsoon regime in the area are studied. I find the study useful and interesting, and certainly worth of publication, pending on some queries below. The use of English is not very good. I have added some corrections, but there is only so much one can correct, hence the authors should consider revising the whole text carefully.

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L15: erase “the”. Wave spectra collected from where/what measuring system. Mention in the abstract that your study is based on buoy observations. L16: which coastal waters? L20: replace “no” with “not”. L22: add “,” after “period”. L31: erase “the” L32: add “parameters” after “wave”. L33: add “correspondent” before “spectral”. L36: add “,” after “decay”. Replace “are” with “have been”. L42: define JONSWAP acronym. Add “field campaign” after JONSWAP. L52 and L55: add “the” after “times”. L60: add following reference: Ranjha, R., M. Tjernström, A. Semedo, G. Svensson, 2015: Structure and Variability of the Oman Coastal Low-Level Jet. Tellus A, 67, 25285, <http://dx.doi.org/10.3402/tellusa.v67.2528> L61: define “AS” acronym. (It is defined latter in the text but it should be defined the first time it is used.) L67: You should state early in the text the monsoon, pre-monsoon, non-monsoon, etc. periods (time ranges in months) as soon as possible in the text. L75: remove “previous”. Add “above” after “discussion”. L76: measured how. State where the data is from. L77: add “,” after “India”. L79: replace “?” with “,”. Add “and” before (2) L80: replace “?” with “,”. L86: add “,” after “north”. L87: add “an icoming” after “have”. L88: add “,” before “since”. L93 and L94: replace “tide” with “tides”. L96: “Materials” or “Data”? L98 and L: replace “are” with “were”. L100: sentence starting with “The data...” is confusing. Re-write. L101: add “a” before “fast”. L105: add “,” after “density”. Replace “at” with “and f is the”. Remove “f”. L110: Consider using “U10” instead of “U”. You will have to explain what you are using U10 for. You mention it here only, and then it seems that you do not use it, since it is never mentioned in the text. L136: regarding sentence starting with “In the monsoon...”, where is this conclusion coming from? The sentence is also confusing, hence consider re-writing it. L146: replace “is” with “are”. Wjat is ARB04? L148: sentence starting with “Small...” is confusing. Re-write. L152: replace “more” with “higher”. L153: replace “frequency” with “frequencies”. Replace “is” with “are”. L154: erase “in”. L156: add “and” before “intermediate”. L168 and in some other parts of the text: Are you sure it is sea breeze. By definition sea breeze is (1) a rather local feature mid-afternoon feature, and (2) from the ocean to land. I am afraid this is not the case. Revise. L177: add “,” before “hence”. L178: add “the” before “monsoon”. L179:

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add “the” after “but”. Add “from” before “SW”. L180: add “,” after “period”. Replace “same” with “similar”. L183: how do you know they are swells? L185: erase “of” and “to be”. L193: normalized by what. Please provide additional information. L196: how do you separate the swells? Sentence starting with “Over an. . .” should be explained better. L203: replace “shifted” with “shifts”. L212: why do you shift to frequency when you when talking about periods? L222: sentence starting with “Except. . .” is confusing. Re-write. L226: replace “the” with “wave”, before “spectra”. Add “that” before “the double”. L227: add “frequent” before “during”. L228: add “that” before “double”. L 242: sentence starting with “Maximum. . .” is confusing. Re-write. L249: add “that” after “storm”. L254: what do you mean by monsoon spectra? L255: I am afraid that the idea in the sentence starting with “Interannual. . .” cannot be stated like that. L263: replace “more” with “highest”. L282: replace “plotted” with “shown”. L299: replace “are” with “is”. Replace “other” with “lower”. L315: why this section (and the name of the section should be revised). What do you gain in adding this section? What exactly do you want to prove and add by adding the theoretical wave spectra. Where is the science here? You need to explain and defend this or else this section should be removed. L352: add “,” after “investigated”. Add “a” after “from”.

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