

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

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All the suggested English language corrections carried out.

L42: define JONSWAP acronym. Add “field campaign” after JONSWAP. Reply: Added

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> Reply: Added the reference

L61: define “AS” acronym. (It is defined later in the text but it should be defined the first time it is used.) Reply: Defined

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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. Reply: Now it is stated.

L76: measured how. State where the data is from. Reply: Modified.

L100: sentence starting with “The data. . .” is confusing. Re-write. Reply: Modified

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. Reply: Now it is mentioned.

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. Reply: Deleted.

L183: how do you know they are swells? Reply: Based on sea swell separation.

L193: normalized by what. Please provide additional information.

Reply: Now it is mentioned.

L196: how do you separate the swells? Sentence starting with “Over an. . .” should be explained better. Reply: It is added under data and methods. Now the sentence is corrected.

L212: why do you shift to frequency when you when talking about periods?

Reply: Now it is corrected.

L222: sentence starting with “Except. . .” is confusing. Re-write. Reply: Corrected.

L 242: sentence starting with “Maximum. . .” is confusing. Re-write. Reply: Corrected.

L254: what do you mean by monsoon spectra? Reply: It is the wave spectra averaged over monsoon period. Now it is corrected.

L255: I am afraid that the idea in the sentence starting with “Interannual. . .” cannot

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be stated like that. Reply: Corrected as "Interannual variations within the spectrum are more for wind-sea region compared to swell region"

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.

Reply: We wanted to show that with suitable modification, we can fit a theoretical wave spectrum to the measured data. The coefficients obtained in fitting the spectrum are presented in Table 6.

Track-changed manuscript incorporating both the reviewers comments is attached as supplement.

Please also note the supplement to this comment:

<http://www.ocean-sci-discuss.net/os-2016-91/os-2016-91-AC2-supplement.pdf>

Interactive comment on Ocean Sci. Discuss., doi:10.5194/os-2016-91, 2017.

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