

# ***Interactive comment on “Numerical investigation on spectral geometries and their relation to non-Gaussianity in sea states with occurrence of rogue waves: wind-sea dominated events” by Xingjie Jiang et al.***

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We need to apologize that a mistake was found in the manuscript submitted to NHESSD (nhess-2020-342).

The additional HOSM simulations (see Sect.3.3 and Fig. 9 in the manuscript) performed on the Alwyn\_r2-Alwyn\_r8 events incorrectly used the spectrum of Alwyn\_r1 as initial conditions. Therefore, the black and red lines in the Alwyn panels of Fig. 9 appear to be at the same level, whereas blue dashed lines were getting lower and lower

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through Alwyn\_r2-Alwyn\_r8, conforming to the smaller and smaller values of  $R_{\mu 3}$  and  $R_{\mu 4}$  shown in Table 3 (Table 4 in the revised manuscript). The additional HOS simulations were conducted again on all the 8 Alwyn events with the correct initial conditions, and Fig. 9 was redrawn in the revised manuscript. The newly drawn Fig. 9 proves the inactivity of MI in the Alwyn events, and better goodness of the fit of the blue dashed lines to the red lines can be found in the redrawn figure. However, the mistake would not affect the conclusions of this manuscript.

We sincerely thank anonymous referee#1 for pointing out our mistakes. The comparison of the original and newly drawn Fig.9 have been added at the end of the revised manuscript, which can be found in the supplement. And other revisions (in blue text) according to the suggestions of referee#1 have been added into the revised version too.

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2020-342/nhess-2020-342-AC2-supplement.pdf>

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