

## ***Interactive comment on “Impact of wave physics on ocean–wave coupling in CMEMS-IBI Part B: Validation study” by Romain Rainaud et al.***

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These papers (Part A and Part B) presents results from a regional ocean-wave coupled system for the Iberian Biscay and Ireland domain. Part A covers the validation of the significant wave height ad peak period while part B is focused on the impact of the wave forcing on the ocean model. The papers provide useful information but lack some details and part of the validation needs to be improved. Even if it is appropriate to include enough information to make sure that the two manuscripts, part A and part B, can be read independently, it is not appropriate to duplicate large parts. Moreover, the scientific achievements don't justify the submission of two separate papers. The two papers are therefore rejected for the publication as they are, but I strongly suggest to the author to combine them in a unique paper, taking into considerations the useful

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comments from the reviewers. The new paper would be too late to be part of the CMEMS special issue and will be handled as a new submission to the regular ocean science journal. The reviews and comments associated to the existing two papers will not be associated to the new paper, if submitted.

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