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Interactive comment on “NEMO on the shelf: assessment of the Iberia–Biscay–Ireland configuration” by C. Maraldi et al.

C. Maraldi et al.

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Revised version of the Paper

NEMO on the shelf: assessment of the Iberia – Biscay – Ireland configuration.

BY C. MARALDI, J. CHANUT, B. LEVIER, G. REFFRAY, N. AYOUB, P. DE MEY,
F. LYARD, S. CAILLEAU, M. DREVILLON, E. A. FANJUL, M. GARCIA SOTILLO, P.
MARSALEIX AND THE MERCATOR TEAM

Dear Editor,

We sincerely thank all the reviewers for the time they spent in refereeing our paper and for the list of comments they provided. The referees' comments and suggestions will

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be incorporated in a revised manuscript to improve its quality and make it suitable for publication. All of the comments will be responded to in sequence in a detailed letter attached to a revised version of our manuscript.

We agree with all the comments of the referees, and particularly with the main comments suggested by both of them:

- The focus of the paper will be adjusted in such a way as to better account for our ambition with the model and the areas where we wish to have it improved. The proposed methodology and the metrics used will be contrasted with existing published work.

- We agree with the referees that most of the metrics used in the study are already commonly used in modelling assessment. However, we find that the originality and richness of our work lie in 1/ the amount and diversity of the observational data sets that we use (from climatological transport values to altimetry, satellite SST, HF radar, hydrological profiles from cruise, ARGO, moorings, time series from tide gauges, buoys), 2/ in our approach considering separately the high-frequency signals (<1day) and the low-frequency ones in order to target specific processes. Besides, to our knowledge the assessment of the diurnal cycle and the assessment of the internal tide phase locked component are indeed novel. As said above, we will rewrite some sections of the manuscript dealing with metrics in order to better bring out these points and to avoid any misunderstanding regarding our objectives.

- The quality of the model will be established in comparison with existing regional models in the area and with the PSY2 model (Prototype System from Mercator Ocean for the Atlantic ocean and the Mediterranean Sea).

All typographical errors noted by reviewers and all comments concerning the presentation of figures will be taken into account in the revised version of the manuscript and particular attention will be given so that the edited version available on the special issue website fully matches our manuscript document, which, we discovered later, was not the case in the first version.

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We are confident that our corrections will address all of the suggestions made by the reviewers. We look forward to hearing from you soon.

Yours Sincerely,

C. MARALDI, J. CHANUT, B. LEVIER, G. REFFRAY, N. AYOUB, P. DE MEY, F. LYARD,
S. CAILLEAU, M. DREVILLON, E. A. FANJUL, M. GARCIA SOTILLO, P. MARSALEIX
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