

Interactive comment on “Combining operational models and data into a dynamic vessel risk assessment tool for coastal regions” by R. Fernandes et al.

Anonymous Referee #2

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General Comment: the manuscript describes a novel tool for assessing the risk of oil spill impacts on coastal areas combining real time information of vessel type and positions, meteorological and oceanographic forecasting systems, different type of coastal vulnerability indexes as well particles tracking and oil weathering operational models. Apart from the description of the tool the aim of the paper is the testing of the tool itself in relation to different forcing and initial conditions. The manuscript looks more like a technical report rather than as a scientific paper. The structure of the paper is not adequate. The results section is minimal with respect to the methodological one and any conclusions are not included. Most of the discussion is focused on future potential perspective and to the authors intentions. Before the publication I recommend to

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extent the results section with more details about the sensitivity of the numerical tool to different meteomarine forcings, traffic conditions and type of spilled oil. Accordingly, the discussion should be improved and focused on identifying the thresholds and limits of the presented tool as being obtained from the suggested improvements in the sensitivity analysis. Specific comments: I have found 14 tables in the manuscript. Even if supplementary materials, an effort should be devoted to reduce them or at least to better integrate all these informations in the manuscript context.

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