

## ***Interactive comment on “Non-linear aspects of the tidal dynamics in the Sylt-Rømø Bight, south-eastern North Sea” by Vera Fofonova et al.***

**Mattias Green (Editor)**

m.green@bangor.ac.uk

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The authors use the high resolution FESOM-C to investigate the non-linear tides in a part of the Wadden Sea. Using a new bathymetry, the tidal dynamics and energetics was described for the area. The paper is an interesting local study, and the methods and analysis will be of interest for other investigations. The implications of the work is also interesting, e.g., in terms of sediment transport and erosion. I agree with the reviewers' comments that the paper needs some more work, and I recommend a minor revision.

The reviewers provide a series of relevant comments that I agree with, and I have nothing major to add on my own. In particular, I think the model description needs more detail,

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as suggested by both reviewers.

Also, the Vida TG station is dry at spring low - how is this taken into account? A traditional harmonic analysis on gappy data is not particularly reliable. Please comment.

The other comments from the reviewers should be taken into account in the revised version.

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