

***Interactive comment on* “Delineation of shallow channel geometry and infill lithology using Spectral decomposition and seismic attributes: A case study from the North Sea Basin, Netherlands” by Kenneth Samuel Okiongbo and Righteous Ombu**

Anonymous Referee #2

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This manuscript aims to figure out shallow channels and their infill lithology in the Southern North Sea using a 3D seismic data. The authors applied nonlinear spectral decomposition methods and found the distinct low sinuosity channel and its lithological characteristics. Since I am not a specialist in lithological and solid geophysical fields, I reviewed the manuscript from a view point of the general data and geophysical science. I carefully read the manuscript and concluded that this manuscript is not among the scope of the Nonlinear Processes in Geophysics (NPG); therefore, I would like to

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encourage the authors to consider submitting to other journals closely related to the present topic, such as First Break, Geophysics, and The Leading Edge.

As a scientific paper, the manuscript should contain (1) new instrument and data, (2) new approaches, or (3) new findings. The authors used the freely available data from dGB Earth Sciences, and applied classic approaches (FFT and CWT) for the data. Therefore, the present manuscript does not satisfy the first and second requirements. The manuscript is well-written, and it was easy to follow the logic and discussion. However, I had an impression that the present manuscript is a technical report rather than a scientific paper. The authors insists that they targeted shallow sediment that has not explored yet due to less attention in the solid geophysical field. The manuscript may satisfy the third requirement; however, the manuscript should be evaluated by the community of the solid geophysical scientists in this case. It is beyond the scope of the NPG. Since the NPG targets all branches of earth, planetary and solar system sciences, it should be better to contain new nonlinear approaches which is applicable to other fields. The present manuscript seems too specific for the NPG. Consequently, I am compelled to say that it is better to consider other journals for this manuscript.

Interactive comment on Nonlin. Processes Geophys. Discuss., <https://doi.org/10.5194/npg-2017-62>, 2017.

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