

Reply to Referee#2

We thank Anonymous Referee #2 for his/her useful comments, which improved our paper. The changes referred to in our replies can be found in the attached file “Reviewed_text.pdf” uploaded as supplemental material.

GENERAL COMMENTS

Referee: *The paper proposed “A discussion on the use of X-band SAR images in marine applications” provides only an introduction to some of the problems affecting X-band SAR data. In particular rain cells an scalloping. In spite of the potential interest of this two topic and the fact that the title is misleading, the paper does not provide any value added with respect to the state of the art. The paper just provide an introduction to the problems with some literature review and does not contain any element of novelty; On the one hand, the paper does not propose any novel method, technique to cope with the problems under consideration; On the other hand, as a review paper, the present work lacks an analysis, comparison or testing of the existing approaches in the literature that could bring some, even though limited, novelty to the proposed work. Therefore, the paper lacks enough novelty and content to be published.*

Authors’ Reply: The paper was initially meant as a guide to marine expert users of CSK and TSK ScanSAR images. In this case the main two issues that we encountered, in a three year experience with daily data received, were the two ones that were reported in the first version of the manuscript. In particular, for the CSK case no preprocessing desclopping procedure was implemented and a sub-optimal post-processing one had to be considered. Within such a framework we referred even some new scientific contribute that we developed.

After we received the comments of Reviewer #1 we retuned the paper according to a “review” approach to provide marine users an up-to-dated first primer of opportunities and criticalities of X-band SAR images. For instance, new opportunities provided by polarimetric X-band SAR data are also referred. A great effort has been made in providing a simple but useful “entry point” to people interested in marine applications, let me say users, without too much expertise in SAR. I hope you can reconsider your opinion in view of above reasonings.