Dear Editor,

I would like to submit the manuscript entitled “***The importance of sound velocity determination for bathymetric survey”*** by Pier Paolo Amoroso and Claudio Parente, to be considered for a publication on Acta IMEKO journal. Please, if approved, consider the possibility to include it in the special issue dedicated to **2020 IMEKO TC-19 International Workshop on Metrology for the Sea**.

The paper aims to analyse the role of sound velocity determination in bathymetric survey and its impact on the accuracy of depth measurement. The experiments are conducted on data set provided by “Istituto Idrografico della Marina Militare Italiana” (IIM), the official Hydrographic Office for Italy, and acquired in the Ligurian sea. In our case, the formulas of Chen & Millero (UNESCO), Medwin and Mackenzie were applied. Introducing errors on chemical-physical parameters of the water column, the results highlight their impacts on sound velocity determination and subsequently a decrease of the depth measurement accuracy.

We declare that this manuscript is original, has not been published before and its not currently being considered for publication elsewhere.

We declare no conflict of interest associated with this publication.

As a corresponding author, I confirm that the manuscript has been read and approved for submission by all the named authors.

Best Regards,

*Naples, 1 May 2021*

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