

Interactive comment on “Meteo and hydrodynamic data in the Mar Grande and Mar Piccolo by the LIC Survey, winter and summer 2015” by Michele Mossa et al.

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Interactive comment on “Meteo and hydrodynamic data in the Mar Grande and Mar Piccolo by the LIC Survey, winter and summer 2015” by Michele Mossa et al. Athanasia Iona (Referee) sissy@hnodc.hcmr.gr Received and published: 23 October 2020

GENERAL COMMENTS The paper describes two monthly coastal data sets of 2015, collected by two fixed stations at Mar Grande and Mar Piccolo within the frame of a monitoring activity. The generation of times series data in sensitive and vulnerable areas as in this study, are of high importance for understanding the hydrodynamic structures and characteristics of the area and for supporting the coastal management. In

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addition, such monitoring data can actively contribute to the successful implementation of national policies and priorities such the MSFD. Unless there are data management processes not mentioned in this work that are undertaken by data centres at more central national level, more standardization at future releases of the data sets would be beneficial. Some modifications, from my point of view, are needed before publication. See attached supplement for more details. Please also note the supplement to this comment: <https://essd.copernicus.org/preprints/essd-2020-229/essd-2020-229-RC1-supplement.pdf>

We would like to thank Reviewer for her careful reading of our paper and comments. We appreciated criticisms and requests of clarification and integration, which allowed us to better explain our paper. We have reviewed our work accordingly, and detailed answers are shown in the following.

(1) The monitoring stations described in this work were settled in the frame of the Italian Flagship Project RITMARE. One of the major aims of the RITMARE Project was the development of an interoperable Infrastructure for marine research. However, scientists usually disregard standards such as common terms for metadata, for parameters, data formats or controlled vocabularies as we can see in this data. The idea behind RITMARE was to provide scientists with tools and applications that would help scientists to share their data with a standardized and harmonized way. Is this monitoring activity addressing the RITMARE objectives? And if yes how?

Really, the monitoring project was funded by the Italian National Project PON R&C 2007-2013 “Magna Grecia” and (also) by the RITMARE flagship project. Obviously, the aim of the paper is not to report on the activities of RITMARE, where interested readers can have further details from the website <http://www.ritmare.it/>

Another source of RITMARE, at least as regards the working group made up of the authors of this paper, are the papers, many of which are referred to in the paper itself. Others will be inserted in the revised manuscript.

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(2) Page 5, line 109: The dataset is made of text files not excel files. Please correct it. Also correct it also at the (Data citation 1).

The correction will be added in the revised manuscript.

(3) Page 6, line 199: the format description needs some improvement. Explain what the first rows are about. Explain that the data are given in tab-separated columns, having a free text labeling (as it is given in the paper) In each data file format description, use the same line separator and not only for the first one (e.g. the semicolon ; at the first row)

Following this comment, in the revised version of paper, data format description will be added.

(4) Page 7: section 4 title: I would rather prefer to change it as "Technical and Data Validation"

Following this comment, in the revised version of paper, the section 4 title will be changed.

(5) Page 7, lines 173-176: Data values outside the expected broad ranges are not always wrong values. Valuable information regarding the quality water changes caused by an extreme event either natural or human induced such as an accident, can be lost when eliminating instead of flagging data beyond plausible ranges. A common practice in marine and ocean data management is the assignment of quality flags for each measurement. There are several quality flags schemas such as SeaDataNet, Ocean Data View, OceanSites, etc. I would suggest the use of such schemes in future releases of the data sets as well as the use of a common data format with standardized terms for metadata, parameters. This would facilitate the better understanding of data and their exchange with other research groups.

We agree with this comment and advice.

(6) Page 7, lines 177-179: the data validation description is quite general. As good

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data depends on good quality checks, the authors could provide more information on the conducted quality control checks with some examples if possible.

Maintenance and calibration of instruments occur twice a year in specialized laboratories and using set of measured data during monitoring survey using Vessel-Mounted Instruments such as Nortek AWAC Vessel Mounted Acoustic Doppler Current Profiler (VM-ADCP)

(7) Page 8, line 191: average values of dissolved oxygen and chlorophyll are not shown at Fig. 6.

Reviewer is right, being the sentences not clear. We will rephrase in the new version of the manuscript.

(8) Pages 8, 9: the legends at Figures 3 are of smaller font than the Figure 4, please homogenize.

The legends are different because the plotted items of Figure3 and 4 are different. Figure 3 shows the pattern of the bottom and surface currents instead Figure 4 shows measured wind and waves. However, the legends can be changed if necessary.

(9) Page 10: Figure 5, there is a mismatch between y-axis label and legend (for temperature). Please correct. Same for Figure 6, mismatches between x axis, y axis and legends. Also, correct the units of chlorophyll at the legend. For these two figures, I would change the x-axis title. A suggestion could be: Time series of measured water temperature and salinity in July 2015. Horizontal time axis is in (month/day/year).

The corrections will be added in the revised manuscript

(10) Page 10, Authors Contributions: MM does not exist.

MM is for M.M. However, the correction will be added in the revised manuscript.

COMMENTS ON DATA FILES (11) Essential metadata are missing from the data files such as the stations location (latitude and longitude) which makes impossible the geo-

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graphical representation of the stations by plotting tools. I would suggest adding them, in this way the data could be easily be plotted by tools like ODV together with the geographical positions of the measuring stations.

The data files are tab-delimited text format (ASCII), and the stations location (latitude and longitude) is indicated in section 2. However, this information will be added also in text files in the revised paper.

(12) In MP-TA-01-2015-temperture.txt file: the header description (line 3) says WATER QUALITY instead of WATER TEMPERATURE.

The correction will be added in the MP-TA-01-2015-temperture.txt file

Same for MP-TA-07-2015-temperature.txt data file. Needs correction.

The corrections will be added in both files.

(13) The MG001, 2_meteo.txt data sets do not include a relevant header description as the rest of the data sets

The corrections will be added in the file.

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