

Dear Editor,

first of all we would like to thank you for the careful reading of our paper.

Secondly, we appreciated the criticisms and the requests of clarification and integration, which made us possible to better explain our paper.

We have reviewed our work according to your questions and, in the following, you will find a detailed answer to each of them.

**Meteo and hydrodynamic data in the Mar Grande and Mar Piccolo by the LIC Survey, winter and summer 2015**

**by Michele Mossa, Elvira Armenio, Mouldi Ben Meftah, Maria Francesca Bruno, Diana De Padova, Francesca De Serio**

**General comment: The paper has been improved, but not all the referees' questions have been addressed. The authors are invited to answer to questions and also review the english.**

**Specific comments:**

- 1) The paragraph 3 is not easy to read. I suggest to synthesise the information in a unique table such as:**

		Mare Piccolo	Mare Grande
waves	Progressive data number		
	Date (year/month/day/hour/minute)	x	x
	Position ???	Significant wave height $H_s$ Significant wave period $T_s$ Significant wave incoming direction (in degree, referenced to North) Average of the 1/10 highest waves $H_{1/10}$ (m) Average wave period $T_{mean}$ (s).	
Currents	Progressive data number		
	Date (year/month/day/hour/minute)	x	x
	Position ???	Cell of measurement with indication of its depth from surface ( $z=0$ ); cell current intensity (m/s) cell current direction	
Temp.	Progressive data number		
	Date (year/month/day/hour/minute)	x	
	Position???	Water Potential Temperature measured in ITS-90 degrees Celsius ( $^{\circ}C$ )	
Meteo	Progressive data number		
	Date (year/month/day/hour/minute)		x
	Position ???	Average wind velocity (m/s) ; Max wind velocity (m/s);	

		Wind incoming direction NE (deg); Air temperature (°C);
		Dew point (°C); Atmospheric pressure (mbar); Relative humidity (%).
Wat Qual	Progressive data number	
	Date (year/month/day/hour/minute)	x
Position???		Water Potential Temperature measured in ITS-90 degrees Celsius (°C);  Conductivity (S/m); Pressure (dbar);  Practical Salinity (PSU) using PSS-78 algorithm Density (kg/m3);  Dissolved oxygen (ml/l);  Chlorophyll (µg/l): Turbidity (NTU) CDOM (RFU) Crude oil (RFU) Refined oil (RFU)

Referee Iona in ‘comments on data files’ suggest to add also ‘position’ in the data files. This information must be in the table. The referee, in practice, ask for interoperability, i.e. the possibility to exchange data following international agreed metadata content and data formats (Oceav Data View is cited).

2) The other important referee comment is the n.5. Here is a request to use common vocabularies (e.g. the SeaDataNet common vocabularies such as the P02). These vocabularies must be used in the table, and must be presented in the text.

*We here address these two questions altogether.*

*Following these comments and Iona advice, the paragraph 3 has been improved in the revised version of paper. Moreover, the meteocean variables have been marked up with the SeaDataNet common vocabularies from Library P01, P02 and P0 in the revised version of paper.*

The dataset supplied in tab-delimited text format ASCII, contains timeseries of relevant meteocean variables marked up with the SeaDataNet common vocabularies from Library P01, P02 and P03 (<https://vocab.seadatanet.org/search> vocabularies P01, P02, P03) and divided as follows:

		Mare Piccolo (MP)	Mare Grande (MG)
<b>Wave</b>	Progressive data number Date (year/month/day/hour/minute) Position (Lat, lon)	<b>x</b>	<b>x</b>
		SDN: P01: Conceptid:: GTHDAP01: Significant wave height $H_s$ (m) - SDN: P01: Conceptid:: GTZHAW01: Significant wave period $T_s$ (s); - SDN: P01: Conceptid:: GWMDAD01: Significant wave incoming direction (in degree, referenced to North); - SDN: P01: Conceptid:: MBANZZZZ:Local depth (mm); - SDN: P01: Conceptid:: GTDHAP01: $H_{1/10}$ - Average of the 1/10 highest waves; - SDN: P01: Conceptid:: GTAMZD01: Average wave period $T_{mean}$ (s)	
<b>Current</b>	Progressive data number Date (year/month/day/hour/minute) Position (Lat, lon)	<b>x</b>	<b>x</b>
		- SDN: P01: Conceptid:: MBANZZZZ: Cell of measurement with indication of its depth from surface ( $z=0$ ); - SDN: P01: Conceptid:: LCSAAP01: cell current intensity (m/s); - SDN: P01: Conceptid:: LCDAAP01: cell current direction (in degree, referenced to North)	
<b>Temperature</b>	Progressive data number Date (year/month/day/hour/minute) Position (Lat, lon)	<b>x</b>	
		- SDN: P01: Conceptid:: MBANZZZZ: Sensor depth (m); - SDN: P01: Conceptid:: TEMPS901: Water Potential Temperature measured in ITS-90 degrees Celsius ( $^{\circ}\text{C}$ )	
<b>Meteo</b>	Progressive data number Date (year/month/day/hour/minute) Position (Lat, lon)		<b>x</b>
		- SDN: P01: Conceptid:: EGTSSS01: Average wind velocity (m/s) ; - SDN: P01: Conceptid:: ESSAMX01: Max wind velocity (m/s); - SDN: P01: Conceptid:: EGTDSS01: Wind incoming direction N (deg); - SDN: P01: Conceptid:: CDTAZZ01: Air temperature ( $^{\circ}\text{C}$ ); - SDN: P01: Conceptid:: CDEWZZ01:Dew point ( $^{\circ}\text{C}$ ); - SDN: P01: Conceptid:: CAPHZZ01:Atmospheric pressure (mbar); - SDN: P01: Conceptid:: CHUMZZ01: Relative humidity (%).	
<b>Water quality</b>	Progressive data number Date (year/month/day/hour/minute)		<b>x</b>
		- SDN: P01: Conceptid:: TEMPS901: Water Potential Temperature measured in ITS-90 degrees Celsius	

	Position (Lat, lon)	(°C); - SDN: P01:Conceptid:: CNDCST01: Conductivity (S/m); - SDN: P01: Conceptid:: PRESPR01: Absolute Pressure (dbar); - SDN: P01 :Conceptid:: PSLTZZ01: Practical Salinity (PSU) using PSS78 algorithm; - SDN: P01:Conceptid:: SIGTPR01: Density (kg/m <sup>3</sup> ); - SDN: P01: Conceptid:: DOXYOP01:Dissolved oxygen (ml/l); - SDN: P01: Conceptid:: CLSDPM01: Chlorophyll (µg/l); - SDN: P01: Conceptid:: CLSDPM01: Turbidity (NTU); - SDN: P01: Conceptid:: GP001:CDOM (RFU); - SDN: P01: Conceptid:: GP001: Crude oil (RFU); - SDN: P01: Conceptid:: GP001: Refined oil (RFU).
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		Mare Piccolo (MP)	Mare Grande (MG)
		<b>x</b>	<b>x</b>
<b>Wave</b>	Progressive data number Date (year/month/day/hour/minute) Position (Lat, lon)	SDN: P01: Conceptid:: GTHDAP01: Significant wave height $H_s$ (m) - SDN: P01: Conceptid:: GTZHAW01: Significant wave period $T_s$ (s); - SDN: P01: Conceptid:: GWMDAD01: Significant wave incoming direction (in degree, referenced to North); - SDN: P01: Conceptid:: MBANZZZZ:Local depth (mm); - SDN: P01: Conceptid:: GTDHAP01: $H_{1/10}$ - Average of the 1/10 highest waves; - SDN: P01: Conceptid:: GTAMZD01: Average wave period $T_{mean}$ (s)	

**3) Flags and quality control: the authors are presenting succinctly the quality assurance procedures, but the quality control is lacking. Also, in this case, the authors could refer to SeaDataNet Quality control. It must also be said how the data were flagged.**

**The authors are asked to answer to all Iona questions and include their answers in the text.**

*Following this comment, a description of Quality Control has been added in the revised paper.*

*The data set has been processed with quality control procedures and data flagged following SeaDataNet protocols. In particular, the dataset quality control has been carried out with:*

- *Maintenance and calibration of instruments twice a year in specialized laboratories;*

- *Visual inspection of the time series (e.g. time series plot, current vector scatter plot, progressive vector diagram, etc.);*
- *Screening together of related parameters such as current speed and current direction or salinity and temperature to identify spurious values;*
- *Flag spikes in the data;*
- *Flag suspicious data or correct the data after consultation with the data supplier;*
- *Check against other data collected on nearby moorings or measured during monitoring survey using two Vessel-Mounted Acoustic Doppler Current Profilers (VM-ADCPs).*

*Best regards*

*Michele Mossa  
Elvira Armenio,  
Mouldi Ben Meftah  
Maria Francesca Bruno  
Diana De Padova  
Francesca De Serio*