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Interactive comment

# Interactive comment on "Structure and functioning of epipelagic mesozooplankton and response to dust events during the spring PEACETIME cruisein the Mediterranean Sea" by Guillermo Feliú et al.

# **Anonymous Referee #2**

Received and published: 27 May 2020

The manuscript presents a complete set of multidisciplinary data of zooplankton community structure and functioning from an oceanographic cruise in the Western Mediterranean Sea in late spring-early summer (May to June 2017) during two major dust events in the Algerian and Tyrrhenian basins. Investigating mesozooplankton structure in the western Mediterranean Sea is a classic but necessary marine science research approach to improve our knowledge on the mesozooplankton community and estimate the responses of this key trophic group in the pelagic ecosystem linking small primary and secondary producers to higher nektonic trophic levels. Furthermore

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the conversion factor of C:Chla=50 and add the reference. For oligorophic waters are more suitable to use the conversion factor/equation of Malone et al 1993, which

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Line 396 (pers. comm. J. Uitz), size and species composition of the phytoplankton community in FAST did not show any change after the dust. Lines 410-425: This

paragraph could be the main hypothesis of your study. Table 1: Add information about the dust events to follow better in the text. Table 2: Add biomass data of total zoo-plankton and size fractions. Table 3: Add Siokou et al., 2019 and make the comparison.

Please also note the supplement to this comment: https://www.biogeosciences-discuss.net/bg-2020-126/bg-2020-126-RC2-supplement.pdf

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2020-126, 2020.

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