

Interactive comment on “MARES Project: Hydrographic data of the San Jorge Gulf from R/V Coriolis II cruise in 2014” by Juan Cruz Carbajal et al.

Anonymous Referee #1

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Journal: Earth System Science Data (ESSD) Title: MARES Project: Hydrographic data of the San Jorge Gulf from R/V Coriolis II cruise in 2014 Author(s): Juan Cruz Carbajal, Marcela Charo, Andrés Luján Rivas, and Cédric Chavanne MS No.: essd-2018-75 MS Type: Peer-reviewed comment

General Comments This manuscript reports, the hydrographic data collected during the second section of an oceanographic cruise achieved at the Patagonian coast, in the San Jorge G in the frame of program called MARES. The objective of the program is to study the frontal dynamics associated to a region of high tidal dissipation rate south of the Gulf, and analyze the vertical displacements of the pycnocline at a fixed site in

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the center of the Gulf mouth. High-resolution data was collected in the southern tidal front, including quasi-continuous CTD vertical profiles, underway surface temperature and salinity, Scanfish II CTD area used for data acquisition.

Some data were not properly calibrated (nutrients, salinity) because of problems in sampling or control failures. As the authors say “The control tasks will be more carefully checked in the next cruises”.

The organization of the MS is good. I only suggest to change a paragraph from section 2.2 to section 2.3- I suggest to make some comparison between historical data and observations of this cruise, specially referred to nutrients and chlorophyll data. It should be useful to compare Temperature vs Nitrates from historical data (if available) This MS would be acceptable for publication ESSD after minor changes Following I make some editorial comments.

Editorial comments Abstract Line 6. I suggest drive instead of conduct L 9. I suggests to change leg (s) by transect in all the MS

Section 2 L 17. Suppress in the field L 20. Suppress “towed undulating vehicle” by this vehicle

Section 2.2 L14 to16. I suggest to change the sentence:” along with the...collection” to 2.3 (Complementary observations section)

Section 3-3 L. 6. In the international system of units, units for DO should be $\mu\text{mol/kg}$. L. 16.. Specify standard errors

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