

## ***Interactive comment on “A multi-year timeseries of observation-based 3D horizontal and vertical quasi-geostrophic global ocean currents” by Bruno Buongiorno Nardelli***

**Gabriela Pilo (Referee)**

gabrielaspilo@gmail.com

Received and published: 3 May 2020

The manuscript describes a new observation-based ocean product of quasi-geostrophic horizontal and vertical velocities (OMEGA3D). The author describes the input used and methods applied in building the dataset, and thoroughly compares his product to other similar products currently available. The manuscript provides the users the all information on how to access the OMEGA3D product, and on the limitations of this product.

I find the manuscript well written, and the product of great relevance to the scientific community. I look forward to see further applications of the OMEGA3D product in large

C1

and meso-scale research.

I recommend this manuscript for publication, with some minor edits to non-working URLs. Please refer to the attached commented PDF for minor comments.

Please also note the supplement to this comment:

<https://www.earth-syst-sci-data-discuss.net/essd-2020-73/essd-2020-73-RC1-supplement.zip>

---

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-73>, 2020.

C2