

Geosci. Model Dev. Discuss., referee comment RC2
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Correction

Marcello Vichi (Referee)

Referee comment on "The importance of turbulent ocean-sea ice nutrient exchanges for simulation of ice algal biomass and production with CICE6.1 and Icepack 1.2" by Pedro Duarte et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-58-RC2>, 2021

For sake of generality and completeness, the vertical velocity used in the formulation of the advective component (eq. 2 in the previous comment) could also be due to gravity drainage or percolation, and not only to sea-ice growth or melt as erroneously indicated.

Hence $w = w_i + w_d$, where w_i is the entrapment/melting (positive or negative) and w_d is the drainage velocity (always negative if the system of reference is oriented upward).