

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).