

Interactive comment on “Tidal controls on trace gas dynamics in a seagrass meadow of the Ria Formosa lagoon (southern Portugal)” by E. Bahlmann et al.

G. Abril

g.abril@epoc.u-bordeaux1.fr

Received and published: 30 July 2014

Please note that net community production (NCP) of seagrass during the immersion cannot be computed from CO₂ fluxes only. The reason for that is the buffering capacity of the carbonate system in seawater that makes evolution of CO₂ much lower than evolution of dissolved inorganic carbon uptaken by the plants. The method of Silva et al. (2008) has been criticized in the following paper: Abril G. (2009) Comment on: "Underwater measurements of carbon dioxide evolution in marine plant communities: A new method" by J. Silva et al. *Estuarine, Coastal and Shelf Science* 82: 357–360. Please carefully consider this point, especially when comparing immersion periods with

C3963

air exposure periods.

Interactive comment on Biogeosciences Discuss., 11, 10571, 2014.

C3964