

Interactive comment on “Seasonality of CO₂ in coastal oceans altered by increasing anthropogenic nutrient delivery from large rivers: evidence from the Changjiang-East China Sea system” by W.-C. Chou et al.

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Chou et al. study seasonality of aqueous carbon dioxide in the East China Sea (ECS). They regard the dataset presented by Tsunogai et al. (1999) as representative seasonality of sea surface carbon dioxide in the ECS in 1990s. And then they suggest that seasonality of aqueous carbon dioxide in the ECS have changed between 1990s and 2000s. However, spatial distributions of aqueous carbon dioxide in the ECS are subject to huge seasonal/intra-seasonal and inter-annual variations. It is difficult for us to distinguish eutrophication-induced decadal changes of aqueous carbon dioxide in

C7581

this highly dynamic marginal sea based on snapshot-like cruise datasets.

See the supplement for details.

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/9/C7581/2013/bgd-9-C7581-2013-supplement.pdf>

Interactive comment on Biogeosciences Discuss., 9, 18993, 2012.