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Supplement of

Ocean acidification decreases plankton respiration: evidence from a mesocosm experiment

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SUPPLEMENTARY MATERIAL:

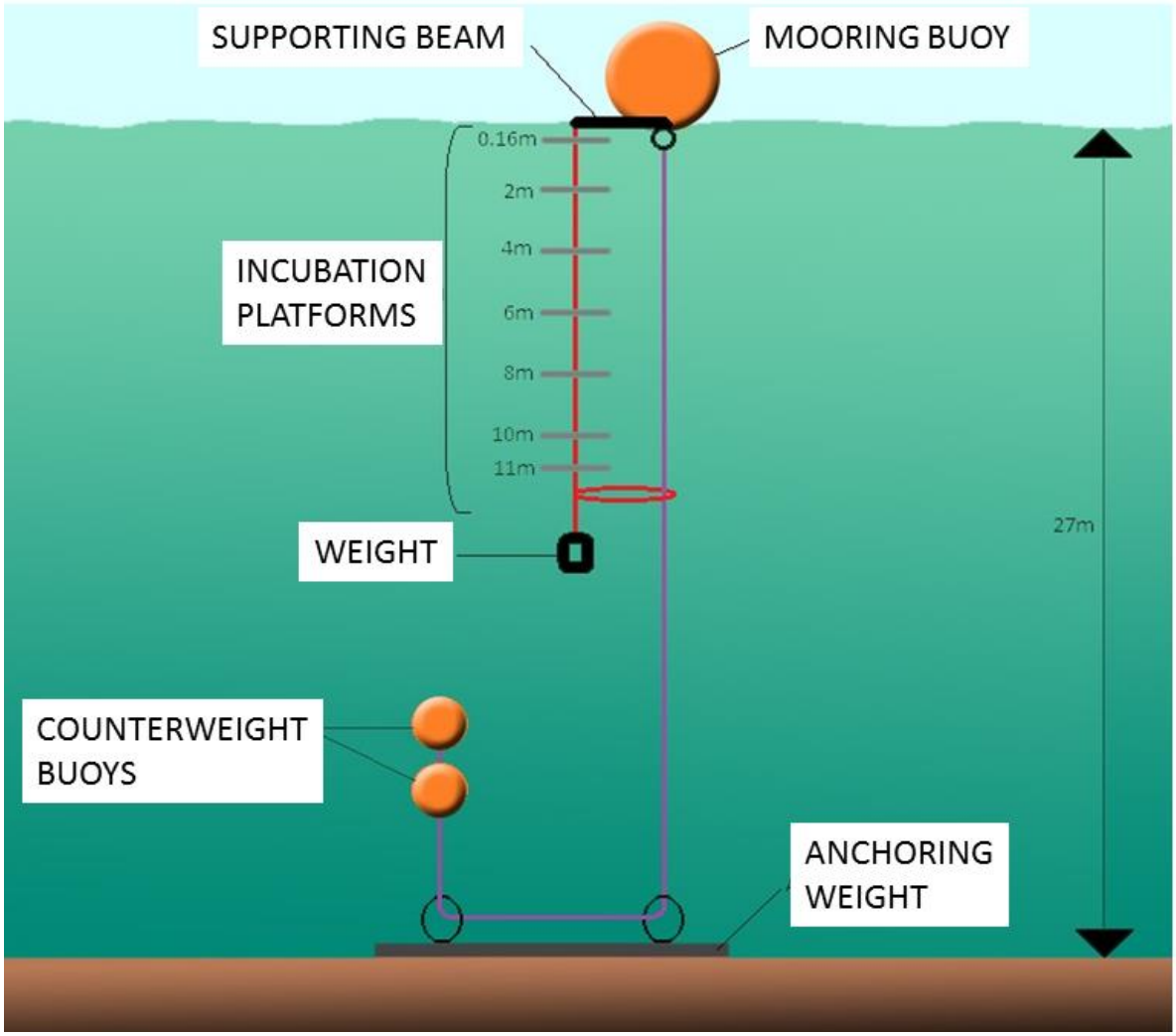

Fig S1. Schematic of the incubation platforms used for primary production incubations. The platforms were moored outside the mesocosms. The platform at 11 m depth was used for dark incubations (the vials were covered with aluminum foil to ensure complete darkness).

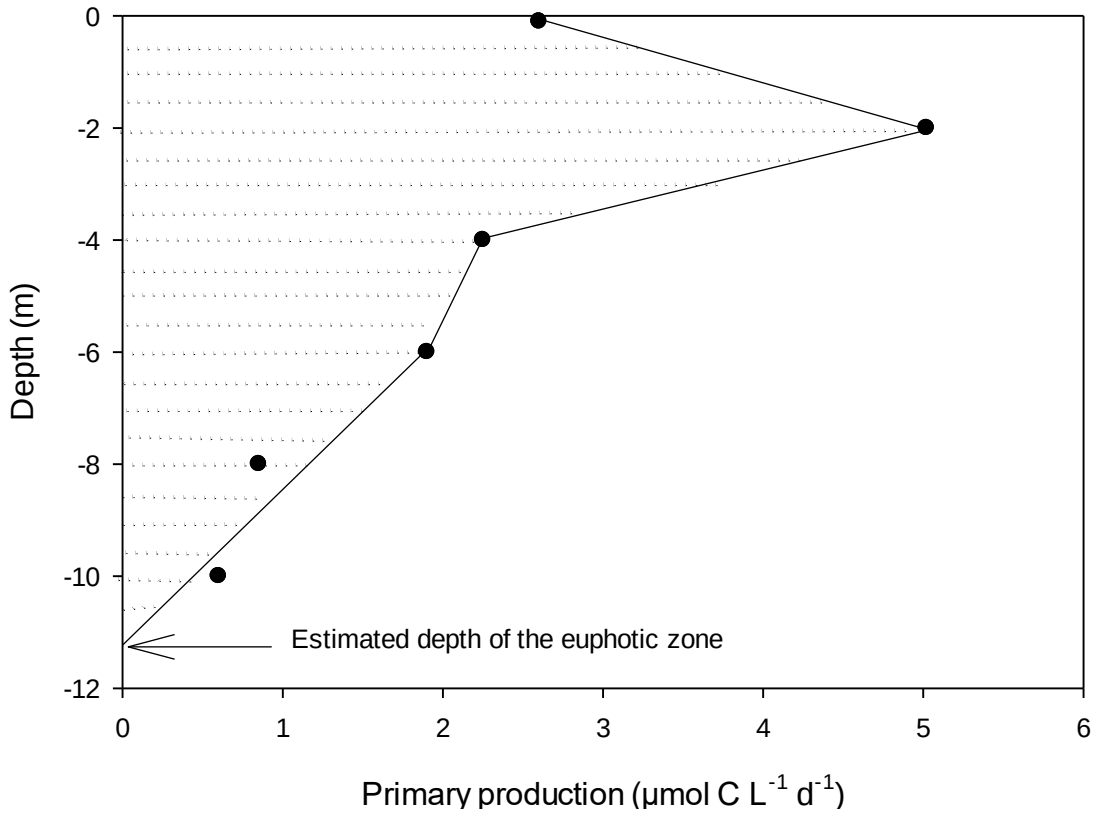

Fig S2. An example of the simple, linear mode used to calculate areal productivity. Points represent measured primary production and the solid line represents the modeled production at different depth. Areal production was calculated from the total filled area. The depth of the euphotic zone was calculated assuming linear decreasing production with increasing depth below 6 m depth.

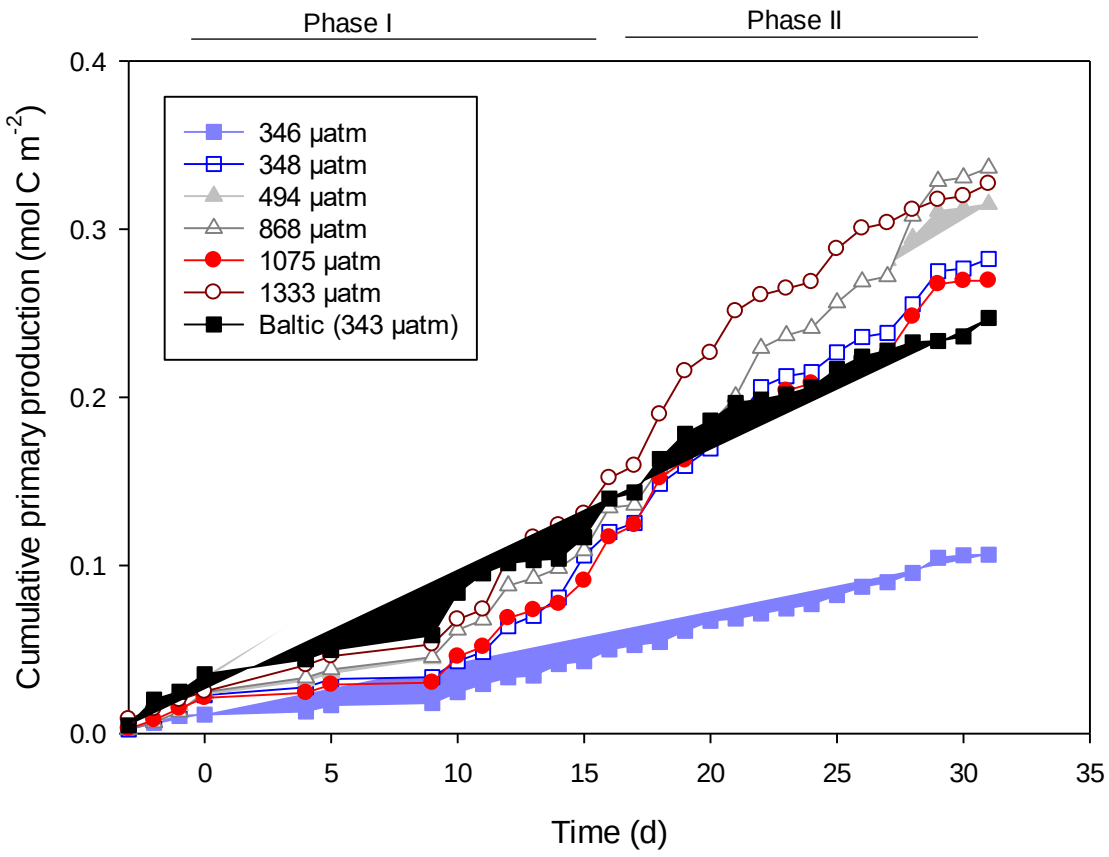

Fig S3. The cumulative primary production in the different fCO_2 treatments per square meter. The fCO_2 (µatm) were the average measured over the duration of the experiment. The two lowest fCO_2 treatments (346 and 348 µatm) were controls without any CO_2 addition.

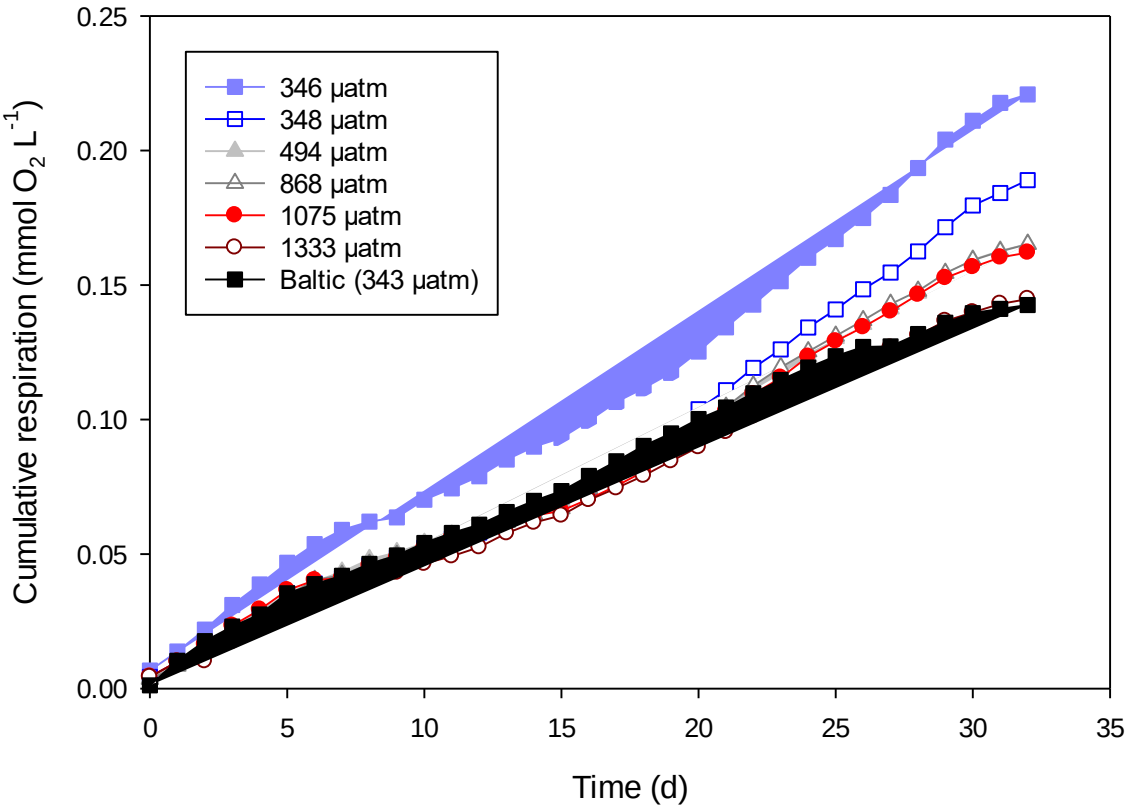

Fig S4. The cumulative respiration in the different fCO_2 treatments. The fCO_2 (µatm) were the average measured over the duration of the experiment. The two lowest fCO_2 treatments (346 and 348 µatm) were controls without any CO_2 addition.