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Supplement of

Temporal changes in surface partial pressure of carbon dioxide and carbonate saturation state in the eastern equatorial Indian Ocean during the 1962–2012 period

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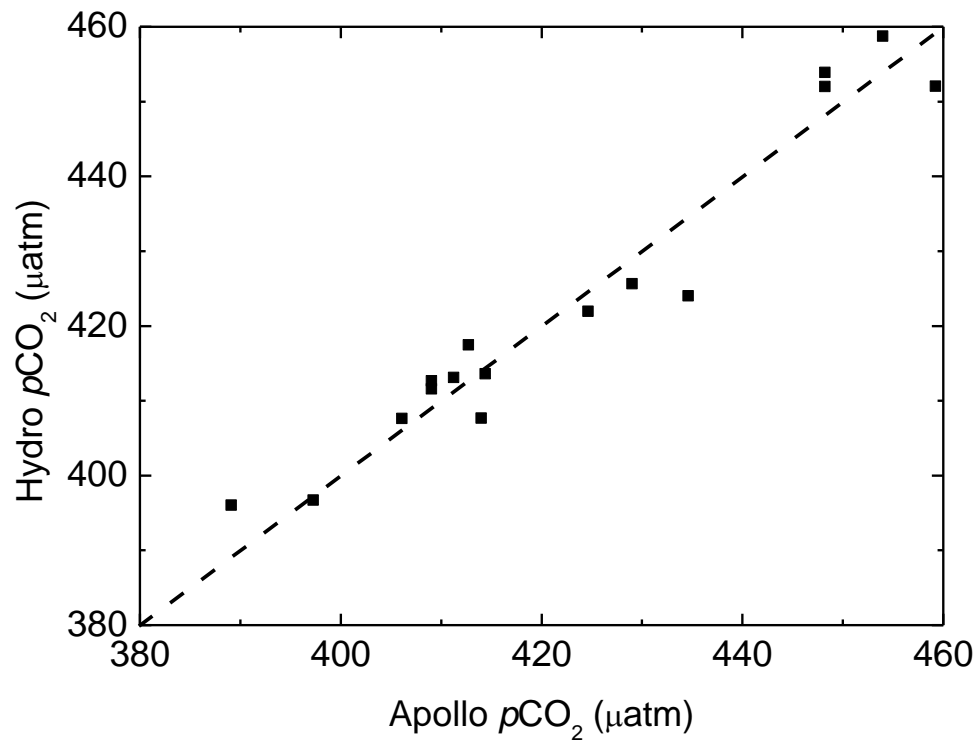


Fig. s1. Comparison of sea surface $p\text{CO}_2$ measured by the HydroCO₂ sensor and the Apollo CO₂ system, respectively. This comparison was conducted on 17 April 2012.

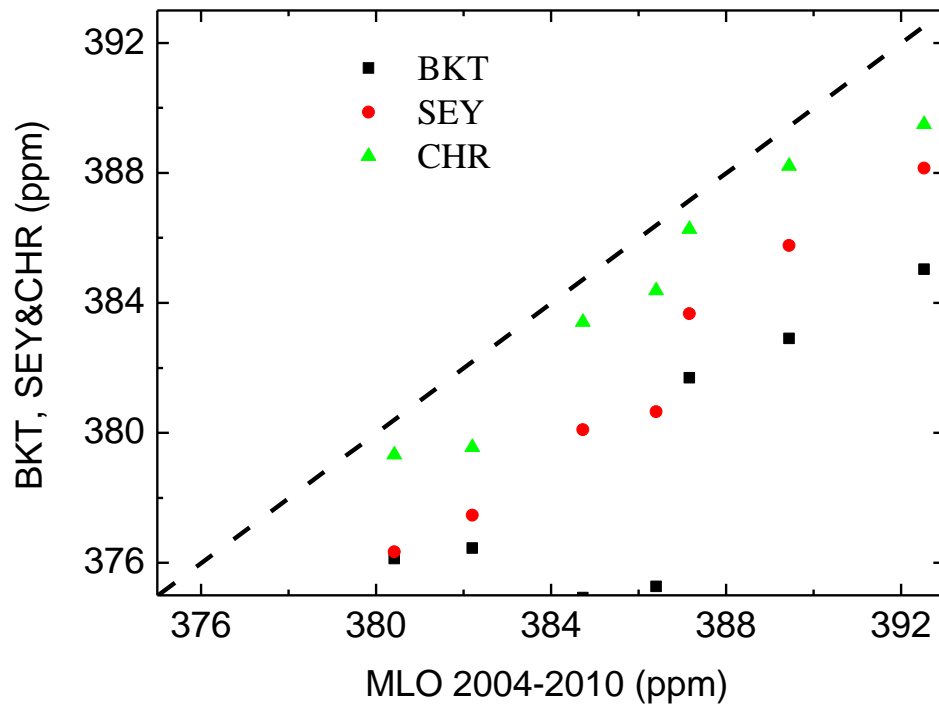


Fig. s2. Comparison of atmospheric CO₂ concentrations in Bukit Kototabang, Indonesia (BKT, 0.20 °S, 100.32 °E), Mahe Island, Seychelles (SEY, 4.68 °S, 55.53 °E), Christmas Island (CHR, 1.70 °N, 157.15 °W) and in Mauna Loa, Hawaii (MLO, 19.54 °N, 155.58 °W) during April of 2004-2010. BKT and SEY are located in the equatorial Indian Ocean, whereas CHR in the equatorial Pacific.

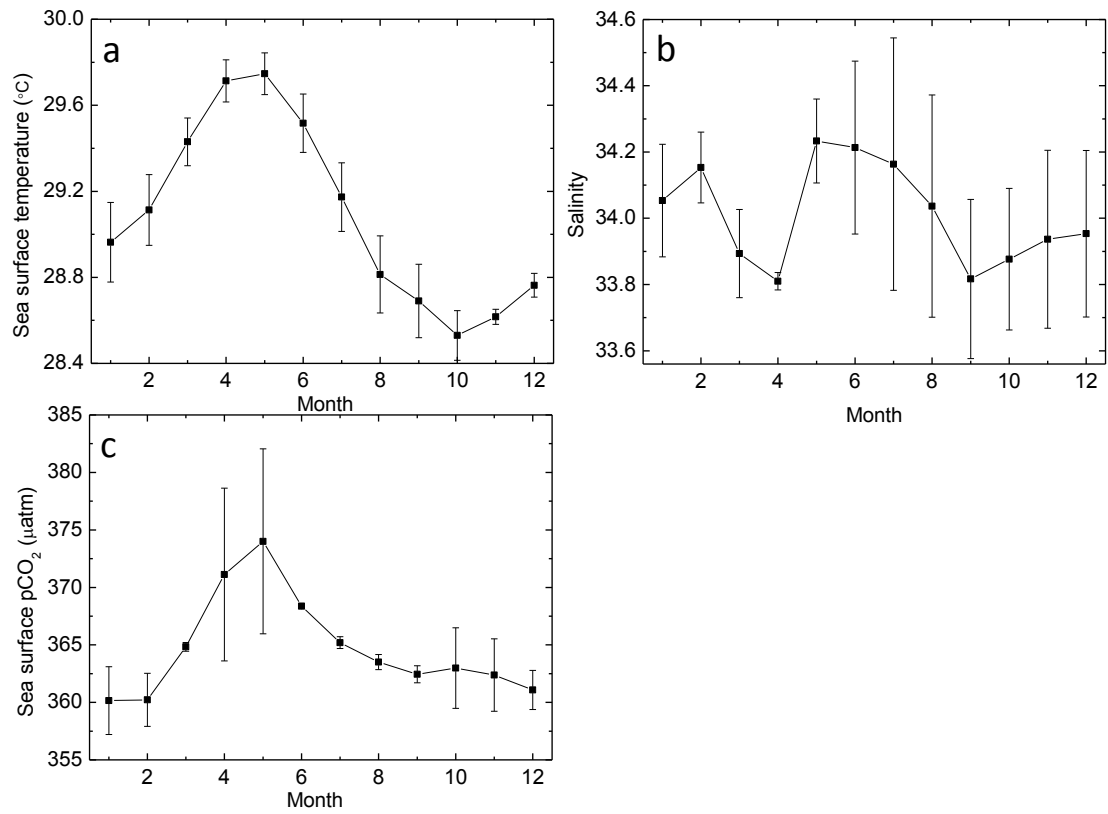


Fig. s3. Annual cycle of sea surface temperature (a), salinity (b), and $p\text{CO}_2$ (c) in the study area calculated by Takahashi et al. (2009).