



Supplement of

Conceptual models of dissolved carbon fluxes in a two-layer stratified lake: interannual typhoon responses under extreme climates

Hao-Chi Lin et al.

Correspondence to: Keisuke Nakayama (nakayama@phoenix.kobe-u.ac.jp)

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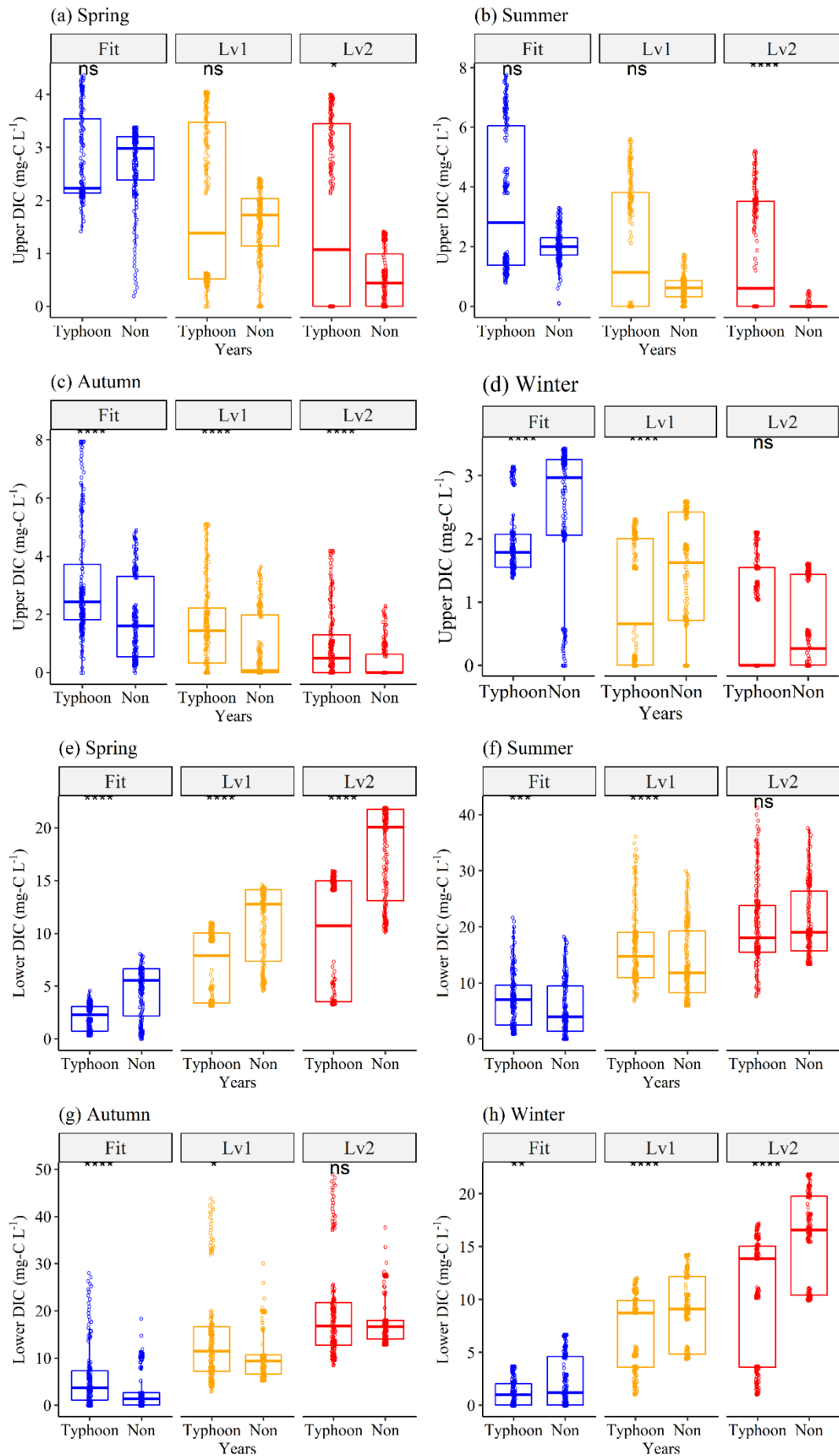


Fig. S1. Seasonal responses of continuous **(a-d)** upper layer DIC and **(e-h)** lower layer DIC (mg-C L^{-1}) between typhoon (*Typhoon*) and non-typhoon (*Non*) years for each season as in **Fig. 3**. *Fit* (blue boxes) condition shows the best-fit data by using the conceptual two-layer C model; *Lv1* (yellow boxes) and *Lv2* (red boxes) show the extreme climates. Empty dots show the continuous DIC and DOC data. “ns”: *p*-values ≥ 0.05 ; *: *p*-values from 0.05 to 0.01; **: *p*-values from 0.01 to 0.001; ****: *p*-values less than 0.0001 based on a *t*-test.

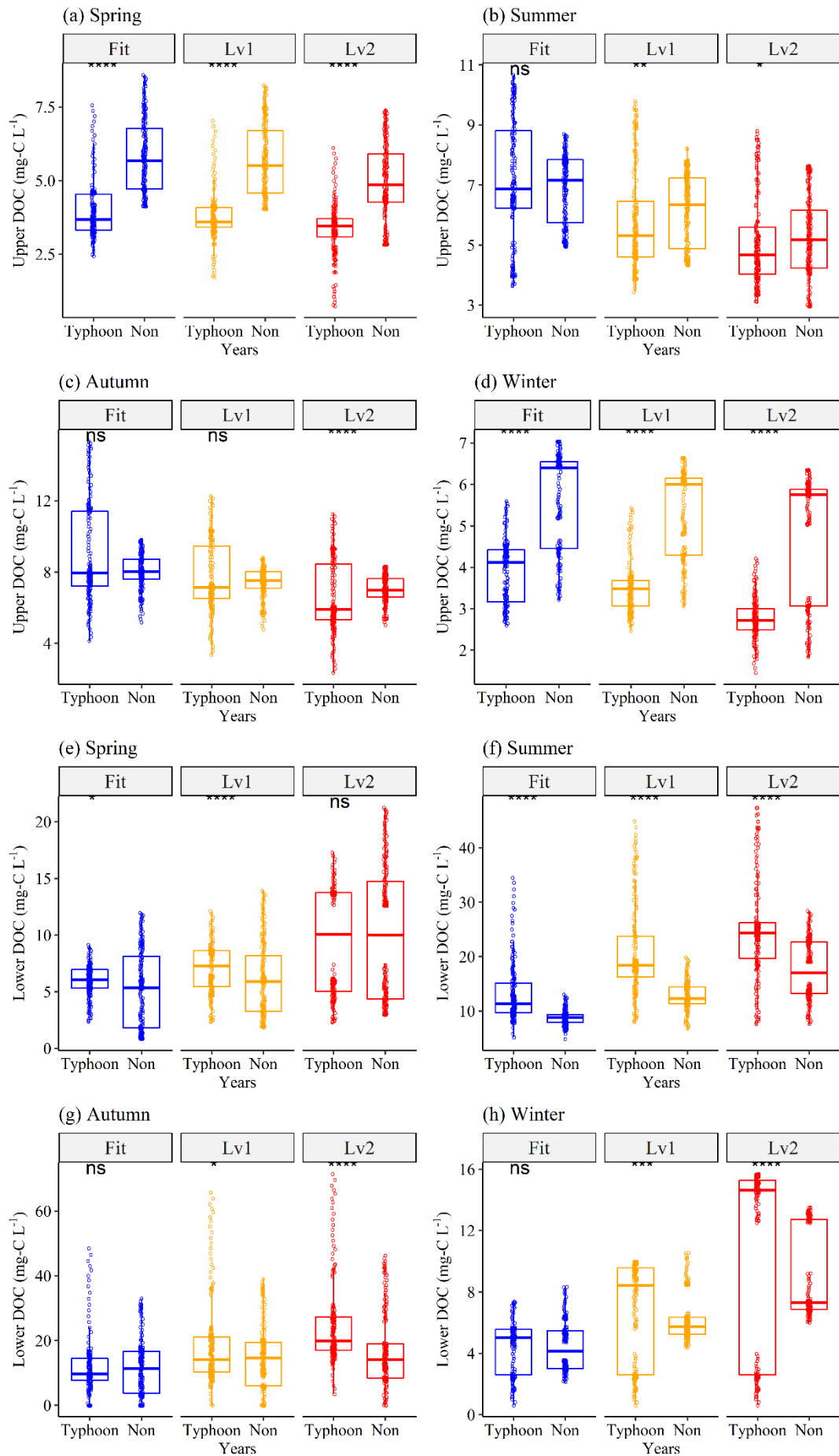


Fig. S2. Seasonal responses of **(a-d)** upper layer DOC and **(e-h)** lower layer DOC (mg-C L^{-1}) between typhoon (*Typhoon*) and non-typhoon (*Non*) years for each season as in Fig. 7. The *Fit* (blue boxes) condition shows the best-fit data by using the conceptual two-layer carbon model; *Lv1* (yellow boxes) and *Lv2* (red boxes) show the extreme climates. Empty dots show the continuous DIC and DOC data. “ns”: p -values ≥ 0.05 ; *: p -values from 0.05 to 0.01; **: p -values from 0.01 to 0.001; ****: p -values less than 0.0001 based on a t -test.