



Supplement of

Leading dynamical processes of global marine heatwaves in an ocean state estimate

Jacopo Sala et al.

Correspondence to: Jacopo Sala (jacopo.sala@colorado.edu)

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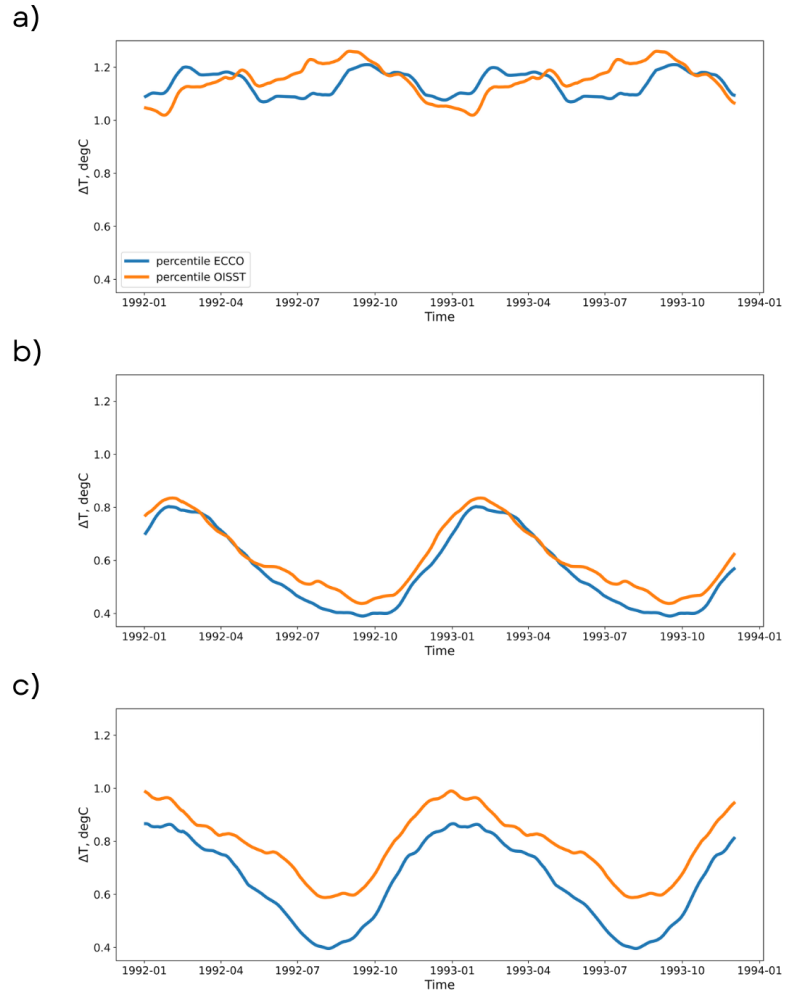


Figure S1. The 90th percentile based on ECCO (blue) and OISST (orange) for the Northeast Pacific (panel a), Southwest Pacific (b) and Tasman Sea (c) regions.

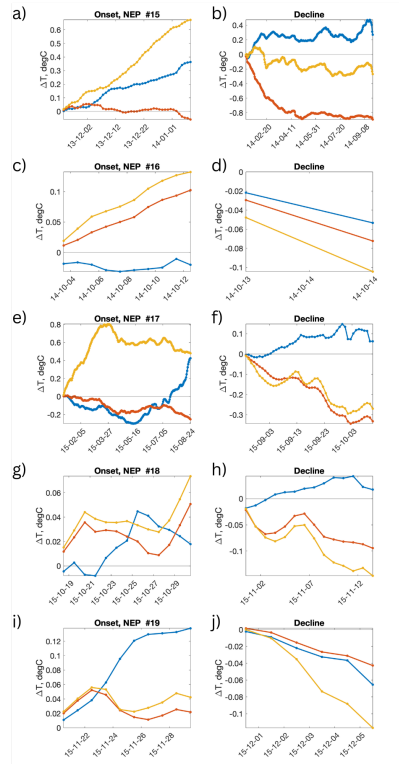


Figure S2. Line plots showing OHC changes during different events in the Northeast Pacific (NEP). Each row represents a different event (NEP #15–19). Onset phases are shown on the left (panels a, c, e, g, i), and decline phases are shown on the right (panels b, d, f, h, j). Advective convergence is represented in blue, diffusive convergence in dark orange, and forcing in yellow.

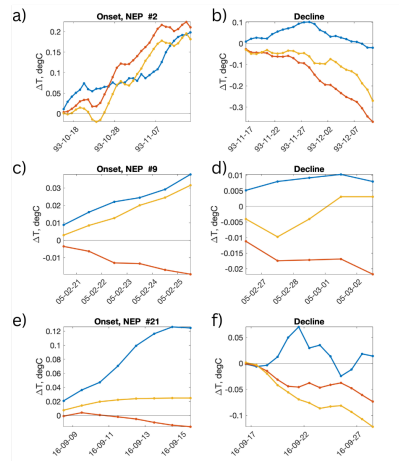


Figure S3. Same as in Figure S2, but for events #2, #9, #21.

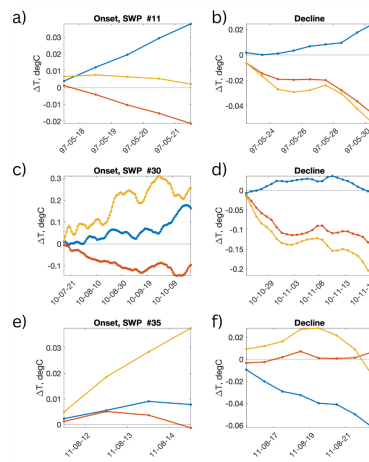


Figure S4. Same as in Figure S2, now for events in the Southwest Pacific (SWP).

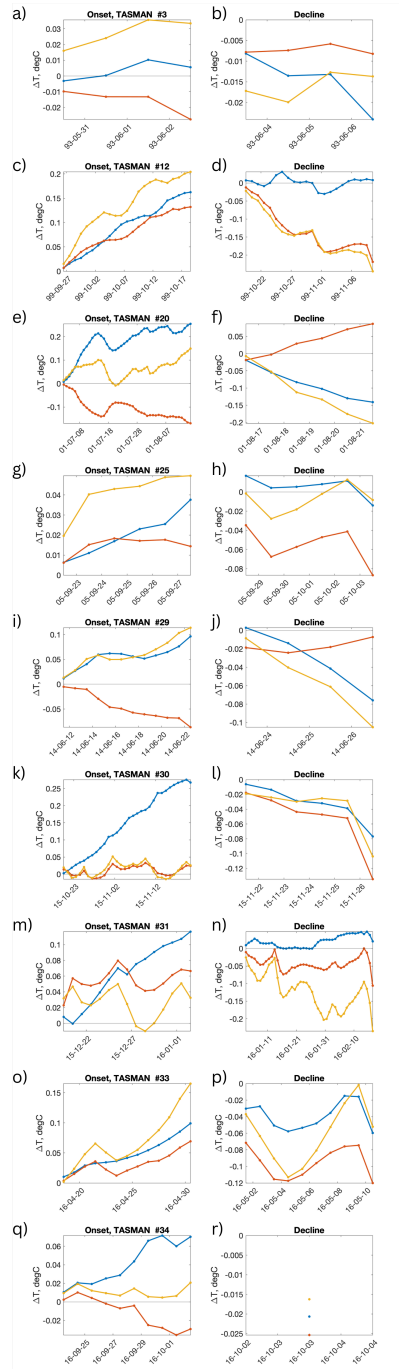


Figure S5. Same as in Figure S2, now for events in the Tasman Sea (TASMAN).

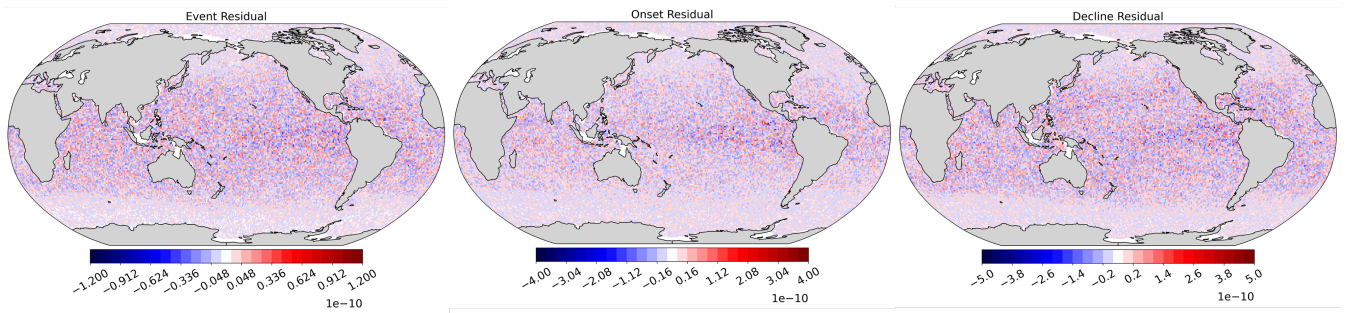


Figure S6. Maps representing the heat budget residual for the events average (left), the onset phase (middle) and the decline phase (right), corresponding to Figure 7 in the manuscript.