

Supporting Information for “Stand-alone Pacific Coastal Warming events”

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Table S1

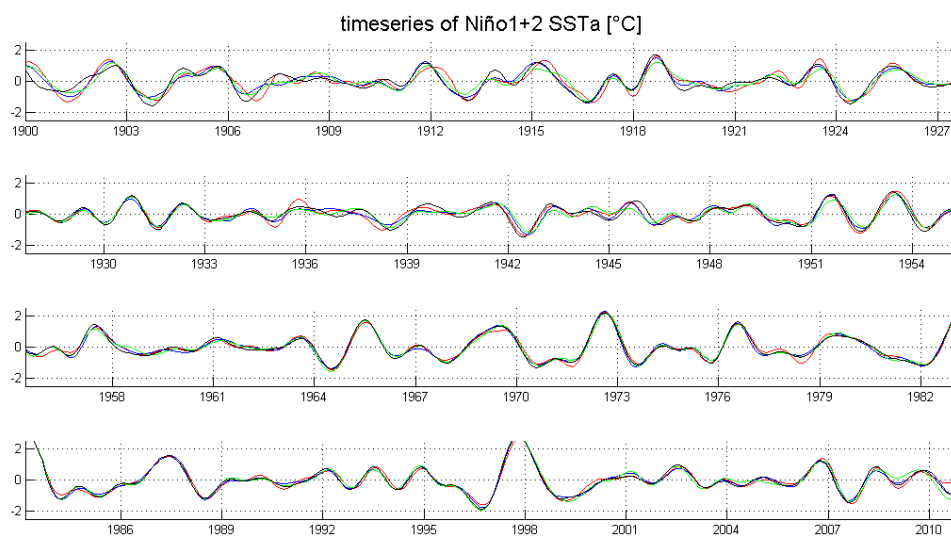


Figure S1. Time series of the Niño1+2 index for COBE2 (green), NOAA ERSSTv5 (black), SODA2.2.4 (red), and HadISST (blue) datasets.

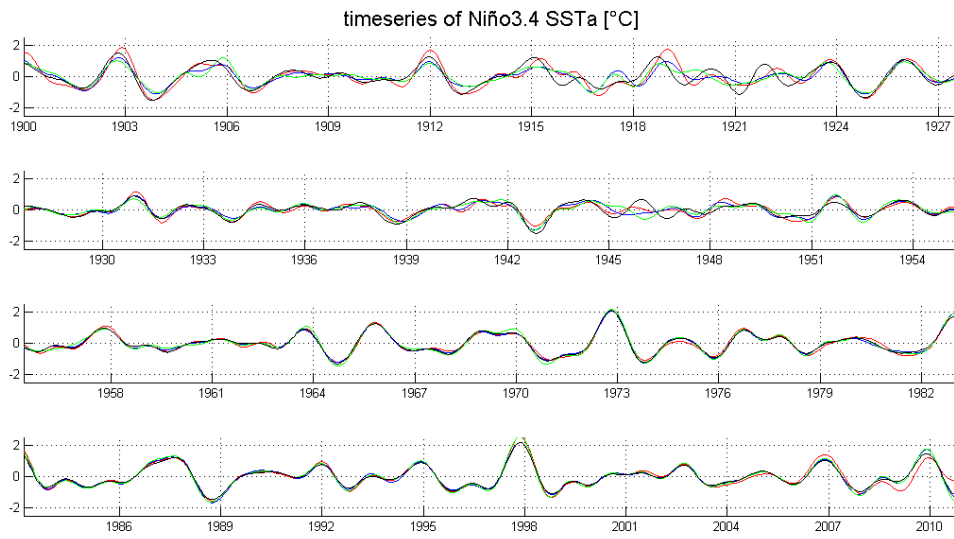


Figure S2. Time series of the Niño3.4 index for COBE2 (green), NOAA ERSSTv5 (black), SODA2.2.4 (red), and HadISST (blue) datasets.

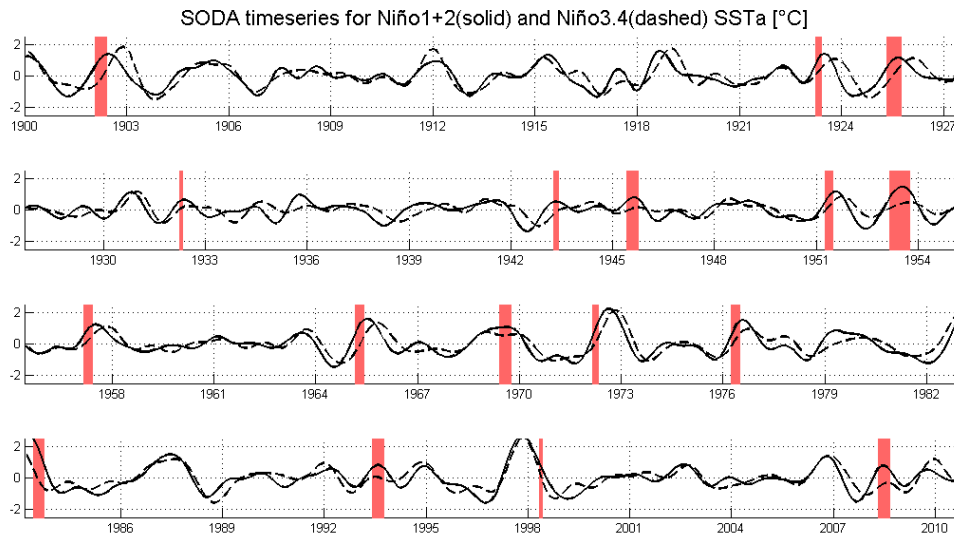


Figure S3. Time series of Niño1+2 (solid) and Niño3.4 (dashed) SSTa from SODA2.2.4. Red bars indicate the coastal warming events identified from all data sets (for criteria see manuscript section 2).

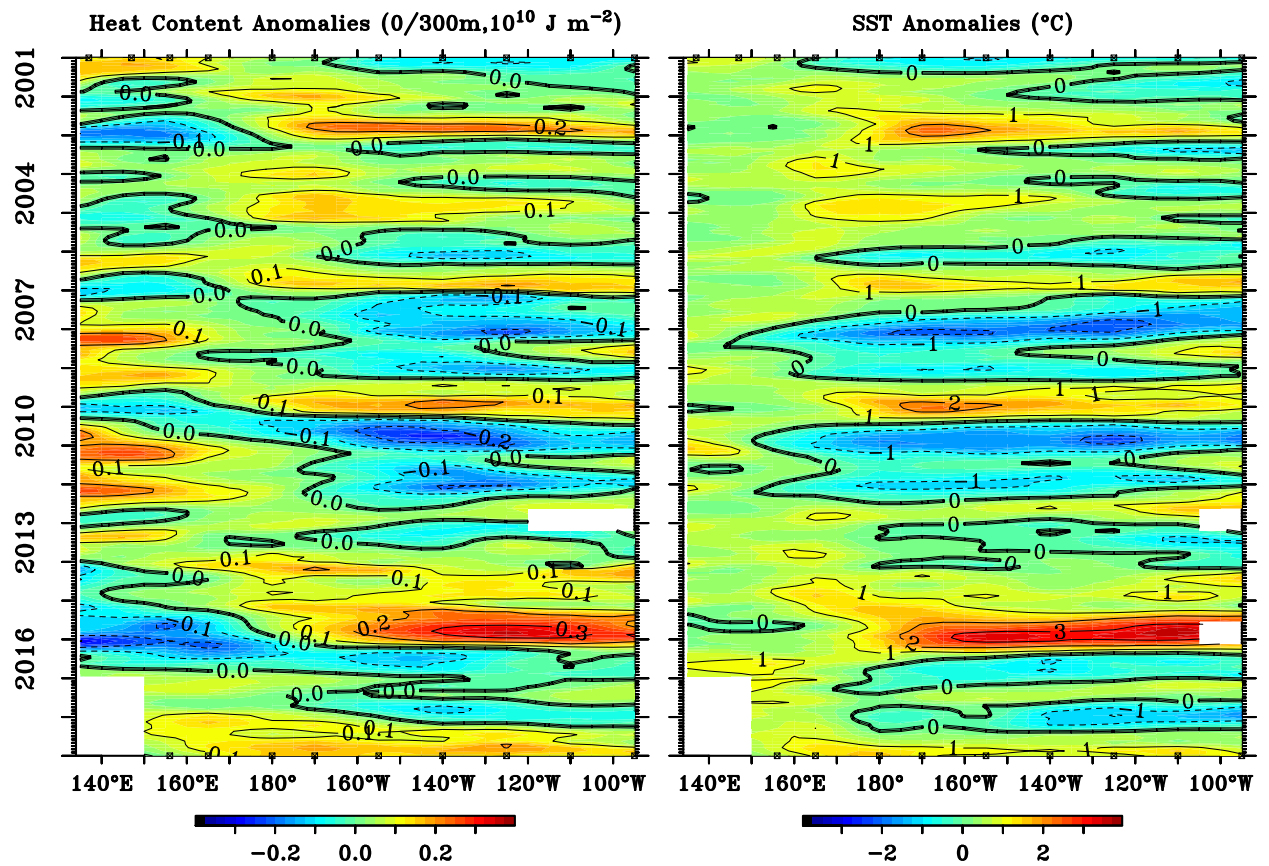


Figure S4. Longitude-time diagram of (a) Heat Content anomalies in Jm^{-2} and (b) SST anomalies in $^{\circ}\text{C}$ averaged over 2°S to 2°N from the TAO/TRITON array (obtained from <https://www.pmel.noaa.gov/tao/drupal/disdsl/>).

Year of event	SODA 2.2.4	HadISST	COBE SST2	NOAA ERSSTv5
1902	02 - 06	02 - 06	04 - 06	03
1923	04 - 06	05 - 07	03 - 06	03 - 06
1925	05 - 10	05 - 08	06 - 07	04 - 08
1932	04 - 05	03 - 06	-	03 - 04
1943	04 - 06	05 - 06	-	03 - 06
1945	06 - 10	06 - 11	-	08 - 12
1951	04 - 07	04 - 06	-	05 - 08
1953	03 - 10	04 - 09	05 - 06	02 - 08
1957	03 - 06	04 - 06	04 - 06	03 - 05
1965	03 - 06	02 - 06	02 - 06	02 - 06
1969	06 - 10	05 - 09	-	05 - 10
1972	03 - 05	03 - 05	03 - 05	03 - 04
1976	04 - 07	04 - 06	04 - 06	04 - 07
1979	03 - 08	02 - 10	04 - 11	03 - 09
1983	06 - 10	06 - 10	06 - 10	06 - 10
1993	06 - 10	06 - 09	05 - 08	05 - 09
1998	05 - 06	06	05 - 06	05 - 06
2008	05 - 09	05 - 08	05 - 10	04 - 09

Table S1. Calendar months in which the coastal warming events occur in the different data sets (for criteria see manuscript section 2).