

Supplement of Ocean Sci., 12, 861–873, 2016
<http://www.ocean-sci.net/12/861/2016/>
doi:10.5194/os-12-861-2016-supplement
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Supplement of

Observed El Niño conditions in the eastern tropical Pacific in October 2015

Lothar Stramma et al.

Correspondence to: Lothar Stramma (lstramma@geomar.de)

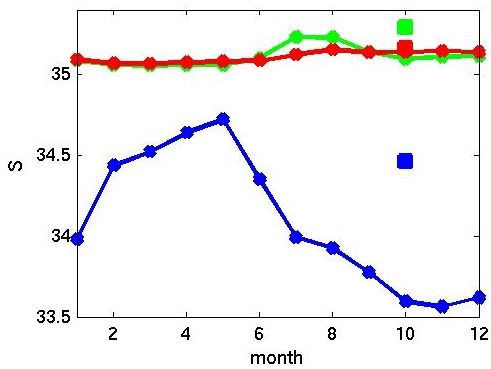
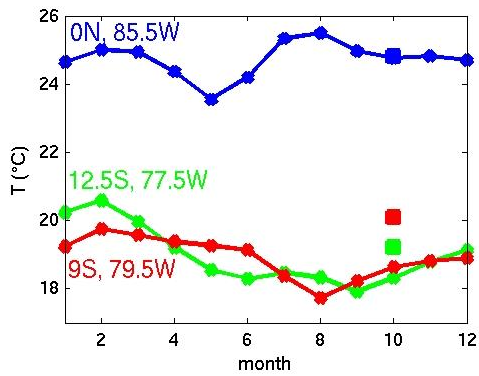
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1 **Supplementary figures**

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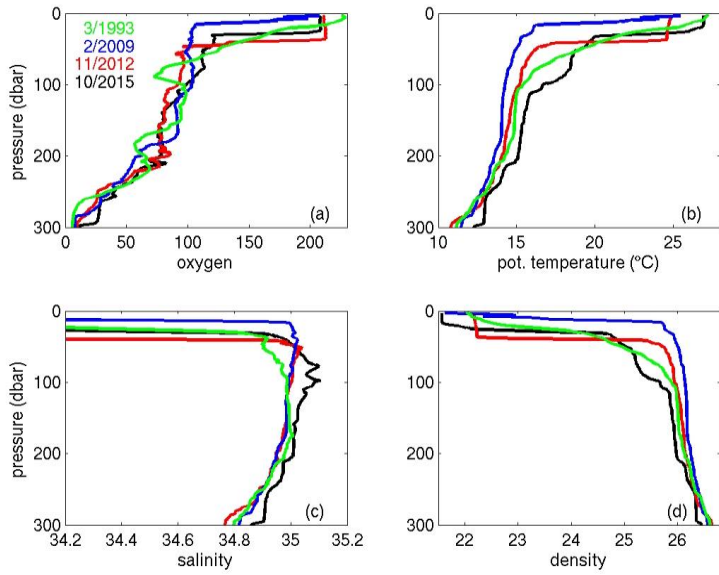


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7 Fig. S1. Sea surface temperature in °C (top) and sea surface salinity (bottom) from the
8 MIMOC climatology (Schmidtko et al., 2013) for 0°N, 85°30'W (blue line), 9°S, 79°30'W
9 (red line) and 12°30'S, 77°30'W (green line) and surface values from CTD profiles in
10 October 2015 at 0°N 85°30'W (blue square), 9°10'S, 79°28'W (red square) and
11 77°25'W (green square).

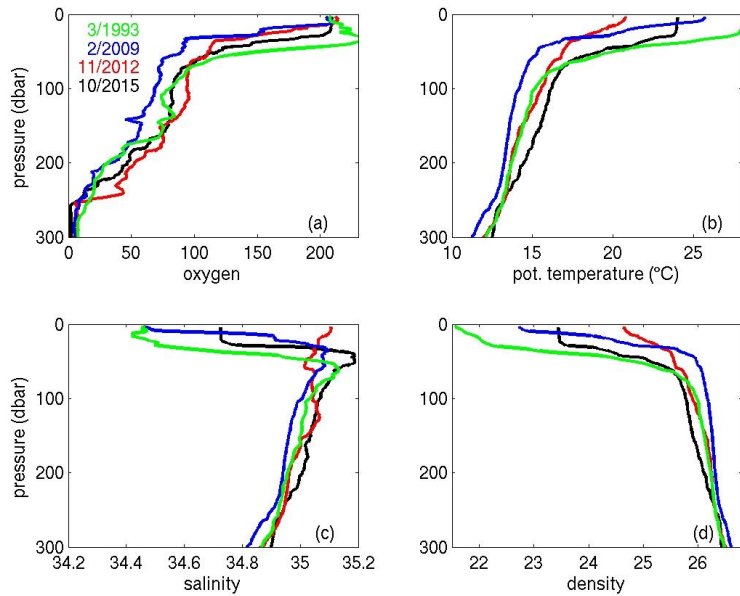
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2 Fig. S2. Upper 300 m profiles at 1°N, 85°50'W for 31 March 1993 (green), 13 February 2009
 3 (blue), 2 November 2012 (red) and at 85°30'W for 7 October 2015 (black) for **(a)** oxygen in
 4 $\mu\text{mol kg}^{-1}$, **(b)** potential temperature in $^{\circ}\text{C}$, **(c)** salinity and **(d)** potential density in kg m^{-3} .

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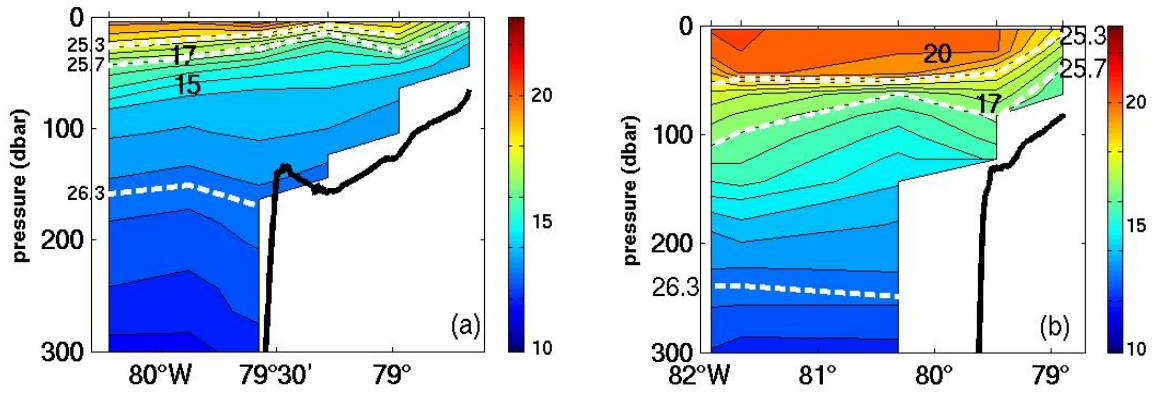


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7 Fig. S3. Upper 300 m profiles at 2°30'S, 85°50'W for 29 March 1993 (green), 11 February
 8 2009 (blue), 3 November 2012 (red) and at 85°30'W for 8 October 2015 (black) for **(a)**
 9 oxygen in $\mu\text{mol kg}^{-1}$, **(b)** potential temperature in $^{\circ}\text{C}$, **(c)** salinity and **(d)** potential density in
 10 kg m^{-3} .

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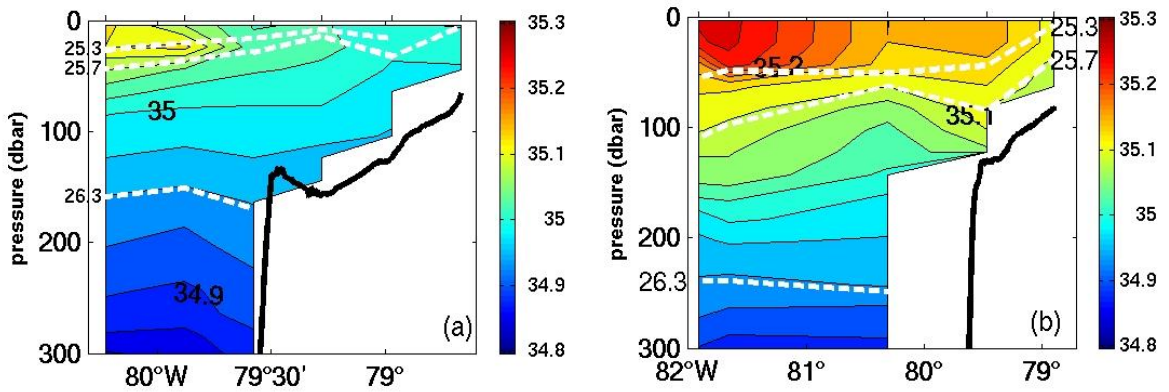


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4 Fig. S4. Temperature section (color; in °C; same color-scale on both frames) at ~9°S off the
5 Peruvian shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are
6 included as white dashed lines.

7

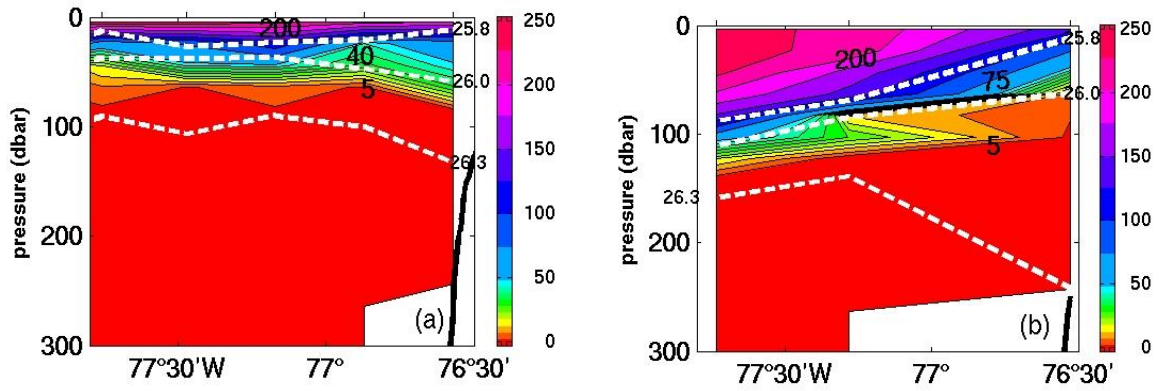
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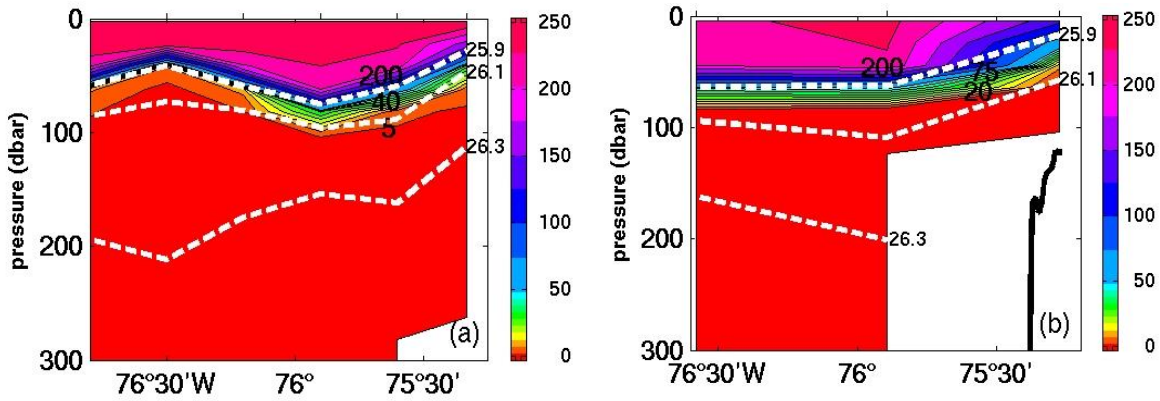
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10 Fig. S5. Salinity section (color; same color-scale on both frames) at ~9°S off the Peruvian
11 shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are
12 included as white dashed lines.

13



1
 2 Fig. S6. Oxygen section (color; in $\mu\text{mol kg}^{-1}$; same color-scale on both frames) at $\sim 14^\circ\text{S}$ off
 3 the Peruvian shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are
 4 included as white dashed lines.



6
 7 Fig. S7. Oxygen section (color; in $\mu\text{mol kg}^{-1}$; same color-scale on both frames) at $\sim 16^\circ\text{S}$ off
 8 the Peruvian shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are
 9 included as white dashed lines.

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