Supplement of

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

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Fig. S1. Sea surface temperature in °C (top) and sea surface salinity (bottom) from the MIMOC climatology (Schmidtke et al., 2013) for 0°N, 85°30’W (blue line), 9°S, 79°30’W (red line) and 12°30’S, 77°30’W (green line) and surface values from CTD profiles in October 2015 at 0°N 85°30’W (blue square), 9°10’S, 79°28’W (red square) and 12°21’S, 77°25’W (green square).
Fig. S2. Upper 300 m profiles at 1°N, 85°50’W for 31 March 1993 (green), 13 February 2009 (blue), 2 November 2012 (red) and at 85°30’W for 7 October 2015 (black) for (a) oxygen in μmol kg⁻¹, (b) potential temperature in °C, (c) salinity and (d) potential density in kg m⁻³.

Fig. S3. Upper 300 m profiles at 2°30’S, 85°50’W for 29 March 1993 (green), 11 February 2009 (blue), 3 November 2012 (red) and at 85°30’W for 8 October 2015 (black) for (a) oxygen in μmol kg⁻¹, (b) potential temperature in °C, (c) salinity and (d) potential density in kg m⁻³.
Fig. S4. Temperature section (color; in °C; same color-scale on both frames) at ~9°S off the Peruvian shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are included as white dashed lines.

Fig. S5. Salinity section (color; same color-scale on both frames) at ~9°S off the Peruvian shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are included as white dashed lines.
Fig. S6. Oxygen section (color; in \( \mu \text{mol kg}^{-1} \); same color-scale on both frames) at ~14°S off the Peruvian shelf for December 2012 (a) and October 2015 (b). Three selected isopycnals are included as white dashed lines.

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