

Disassociation of the Kuroshio Current with the Pacific Decadal Oscillation since 1999

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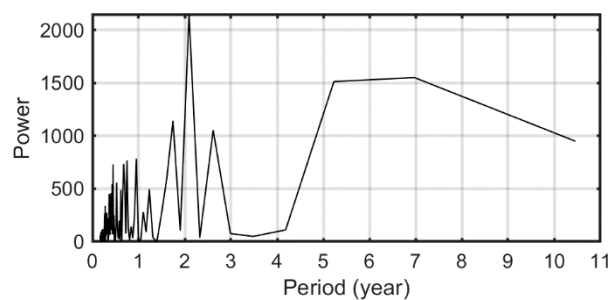


Figure 1. The spectrum of time series of mode 1 of Kuroshio-ECS.

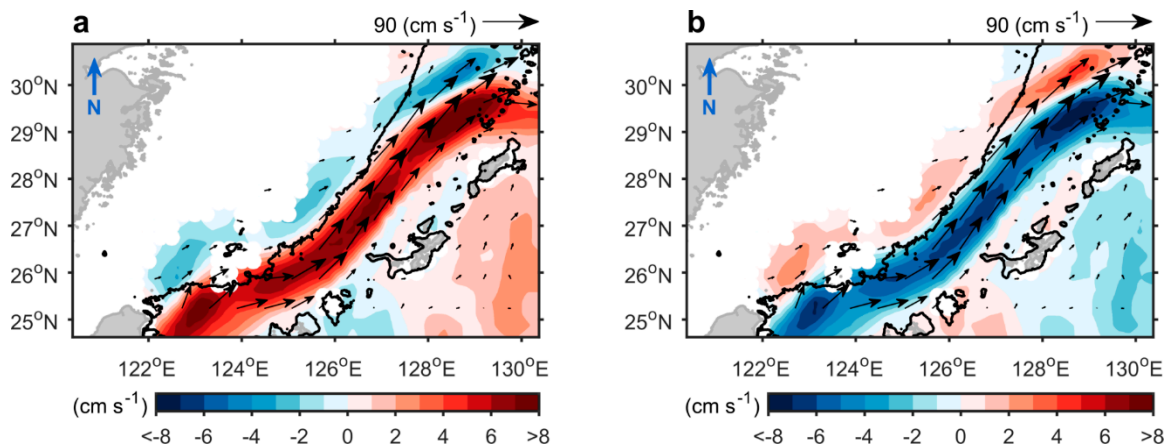


Figure 2. Composite of GSV anomaly during positive phase (a) and negative phase (b) of mode1 of Kuroshio-ECS. Vector indicates mean GSV.

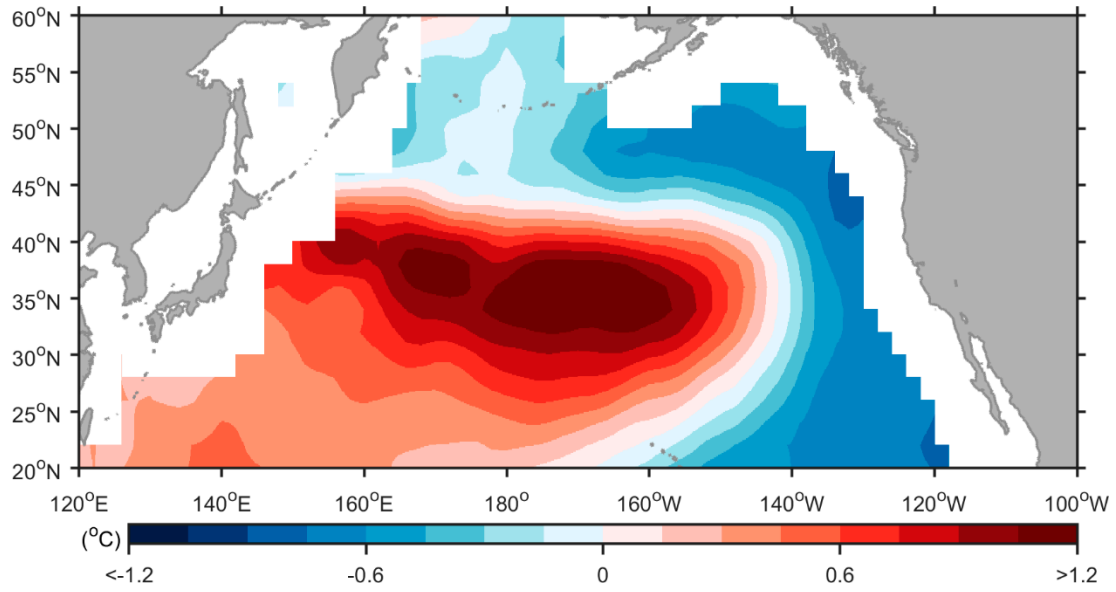


Figure 3. The difference of sea surface temperature anomaly (1999-2013 minus 1993-1998). .

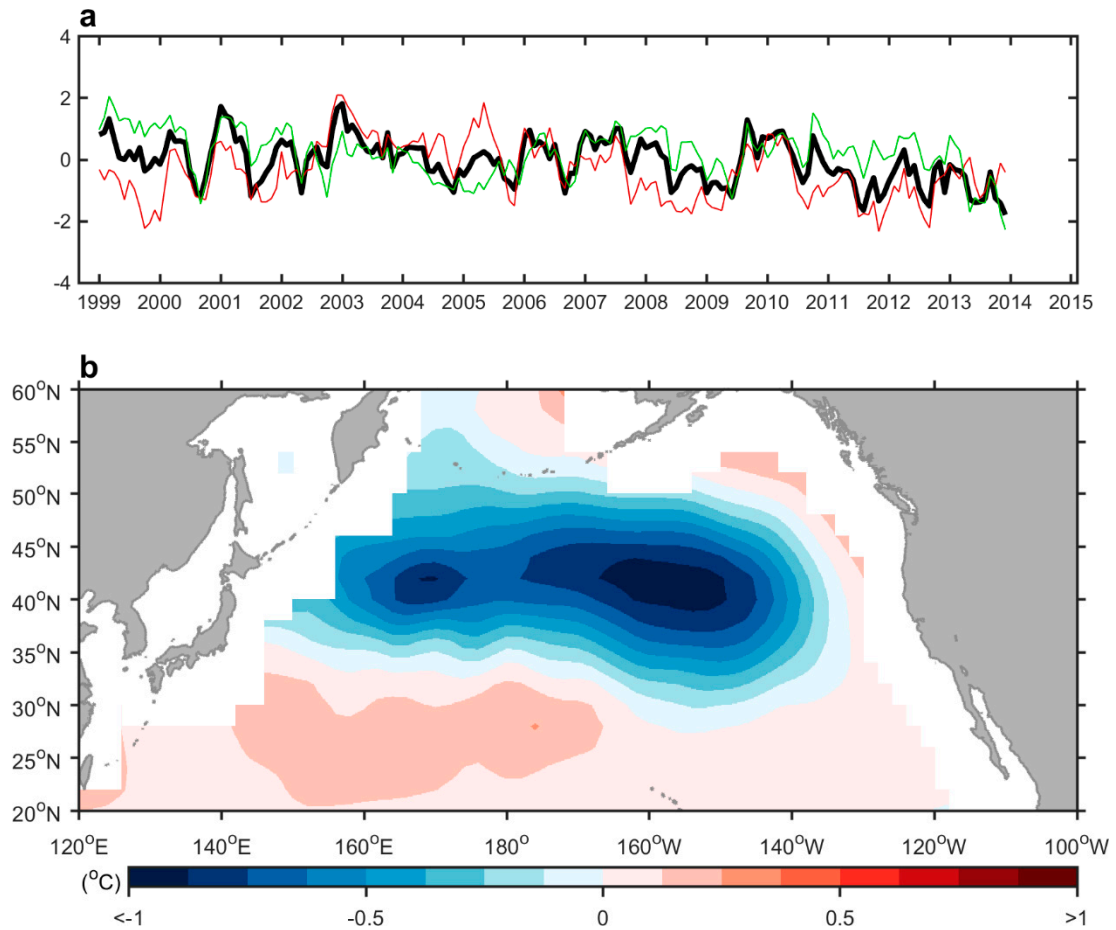


Figure 4. The second mode of SSTA during 1999-2013. (a) Black, red, and green curves indicate time series of the second mode, Type-A, and Type-B, respectively. (b) The spatial pattern of the 1999-2013 second SSTA mode.

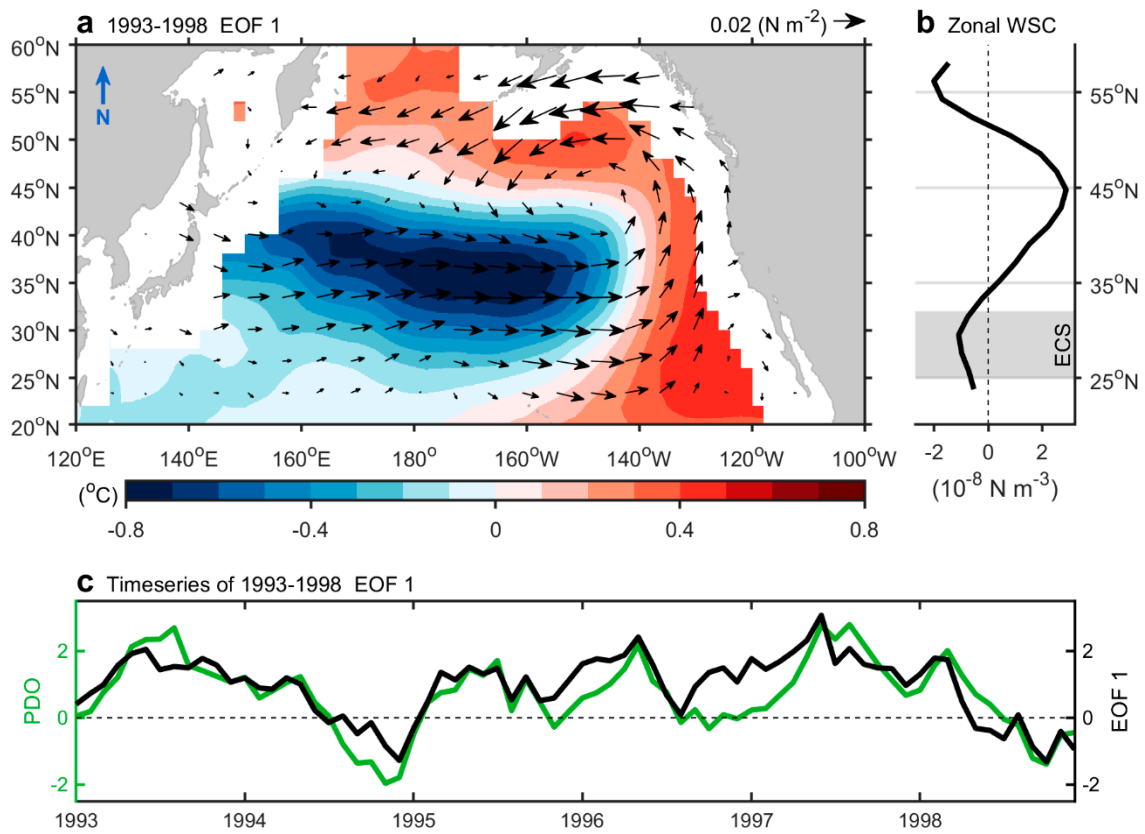


Figure 5. (a) The spatial pattern (shading) and wind stress anomaly (vector) during the positive phase of the 1993-1998 first mode. (b) Time series of the 1993-1998 first SSTA mode (black), together with PDO indices (green). (c) Zonally (120°E-100°W) averaged WSC anomaly computed over the positive phase of the 1993-1998 first mode. Shading indicates the Kuroshio-ECS region.