Supplement of " Dense Water Formation Variability in the Aegean Sea from 1947 to 2023"

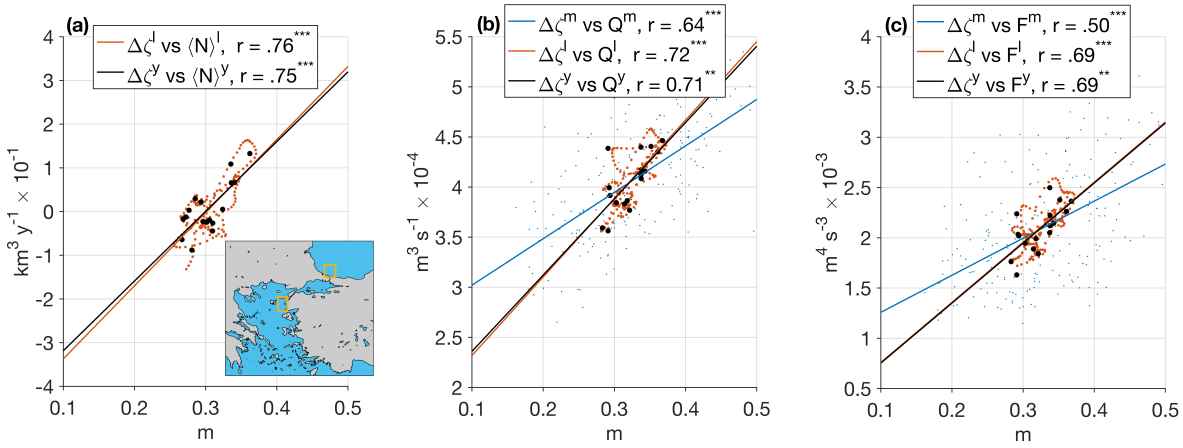


Figure S1: Linear fits and correlation coefficients between (a) sea surface height difference and net water exchange at the Turkish Straits System, (b) sea surface height difference and Black Sea water volume flow from the Dardanelles in the Aegean Sea, and (c) sea surface height difference and lateral buoyancy flux from the Dardanelles in the Aegean Sea. Superscripts m, and y denote month and year averaging respectively. Superscript l denotes low-passed time series with window length of twelve months. Two and three stars denote the 99.5 % and 99.9 % confidence level respectively.

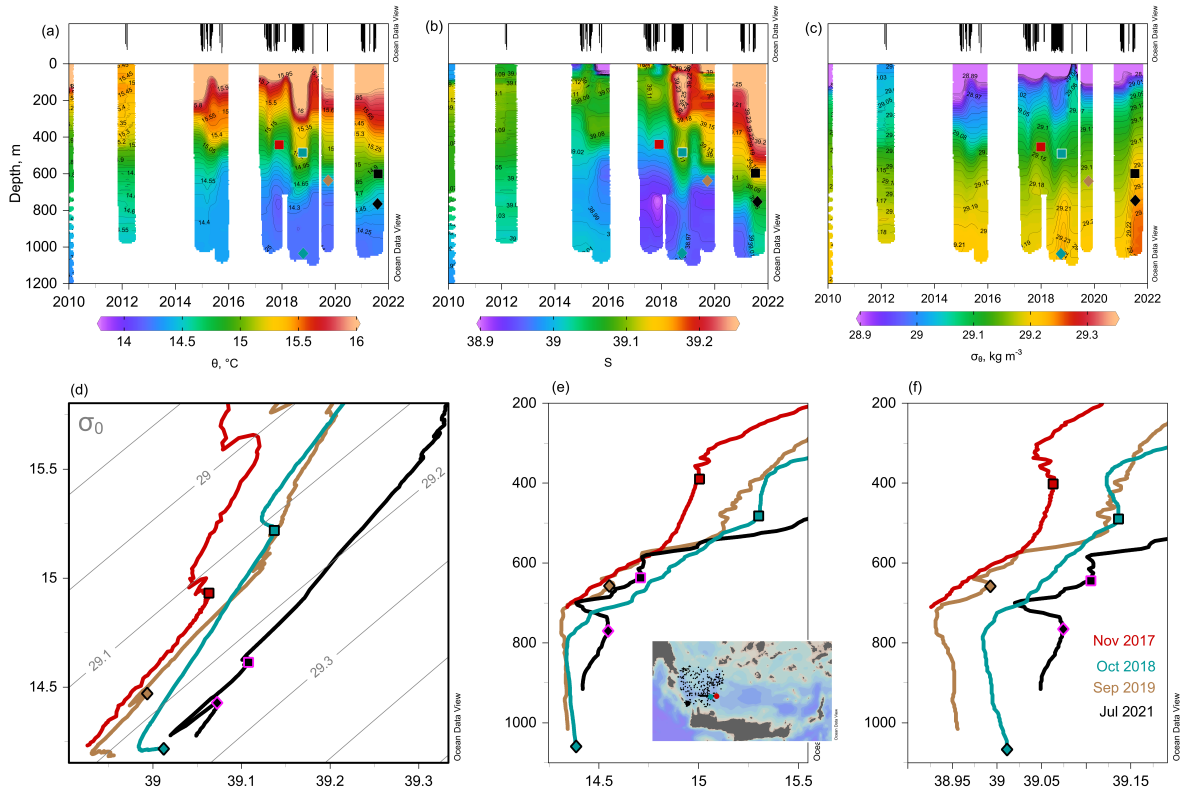


Figure S2: Hydrographic variability of the West Cretan Sea from January 2010 to December 2021. Time–depth plots of (a) potential temperature θ, (b) salinity S, and (c) potential density σ_θ. (d) θ/S diagram, and profiles of (e) θ, and (f) S of selected stations along with annotations of warm and saline intrusions. The annotated intrusions are also shown in the time–depth plots.