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Supplement of

Baltic Sea freshwater content

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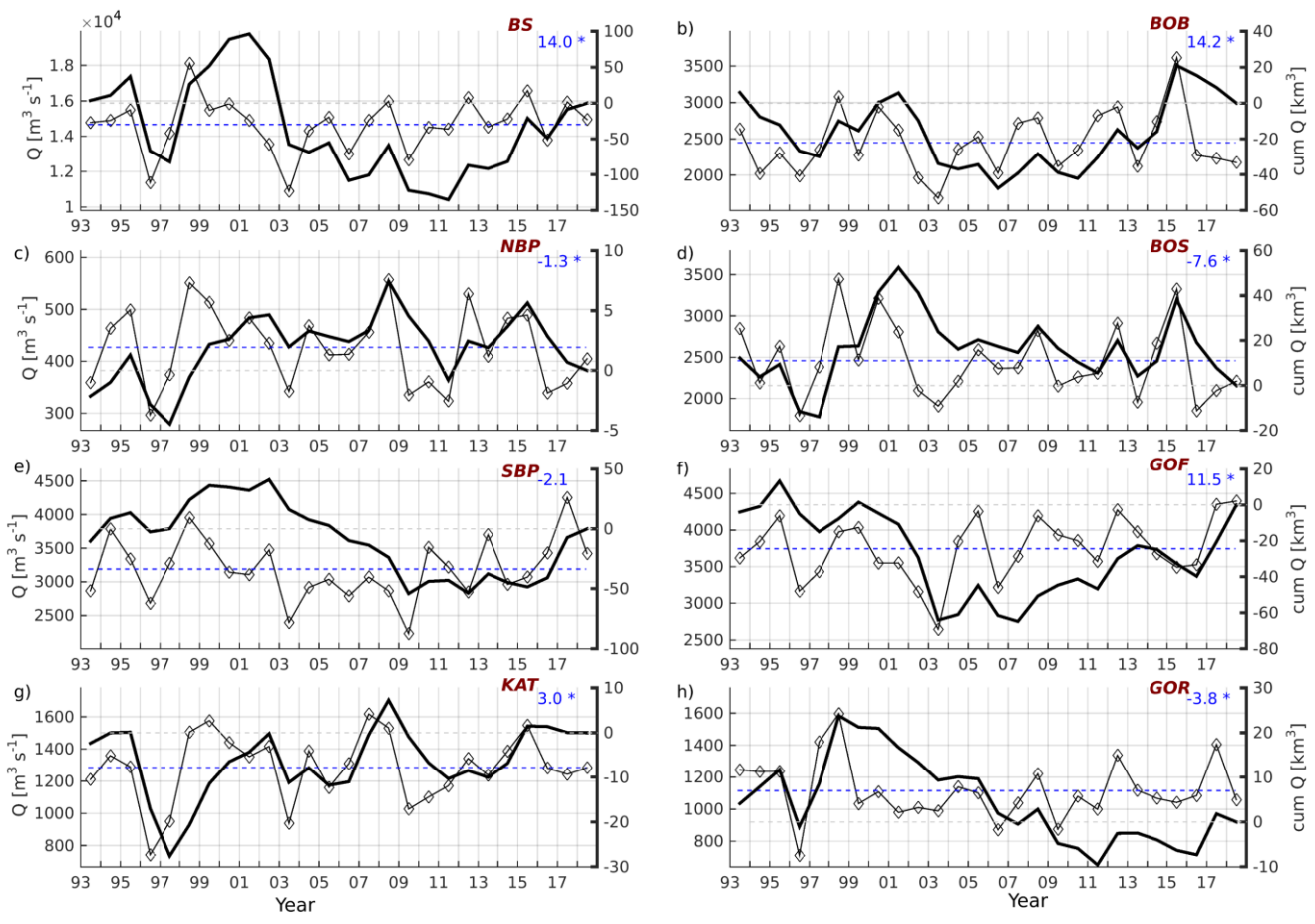
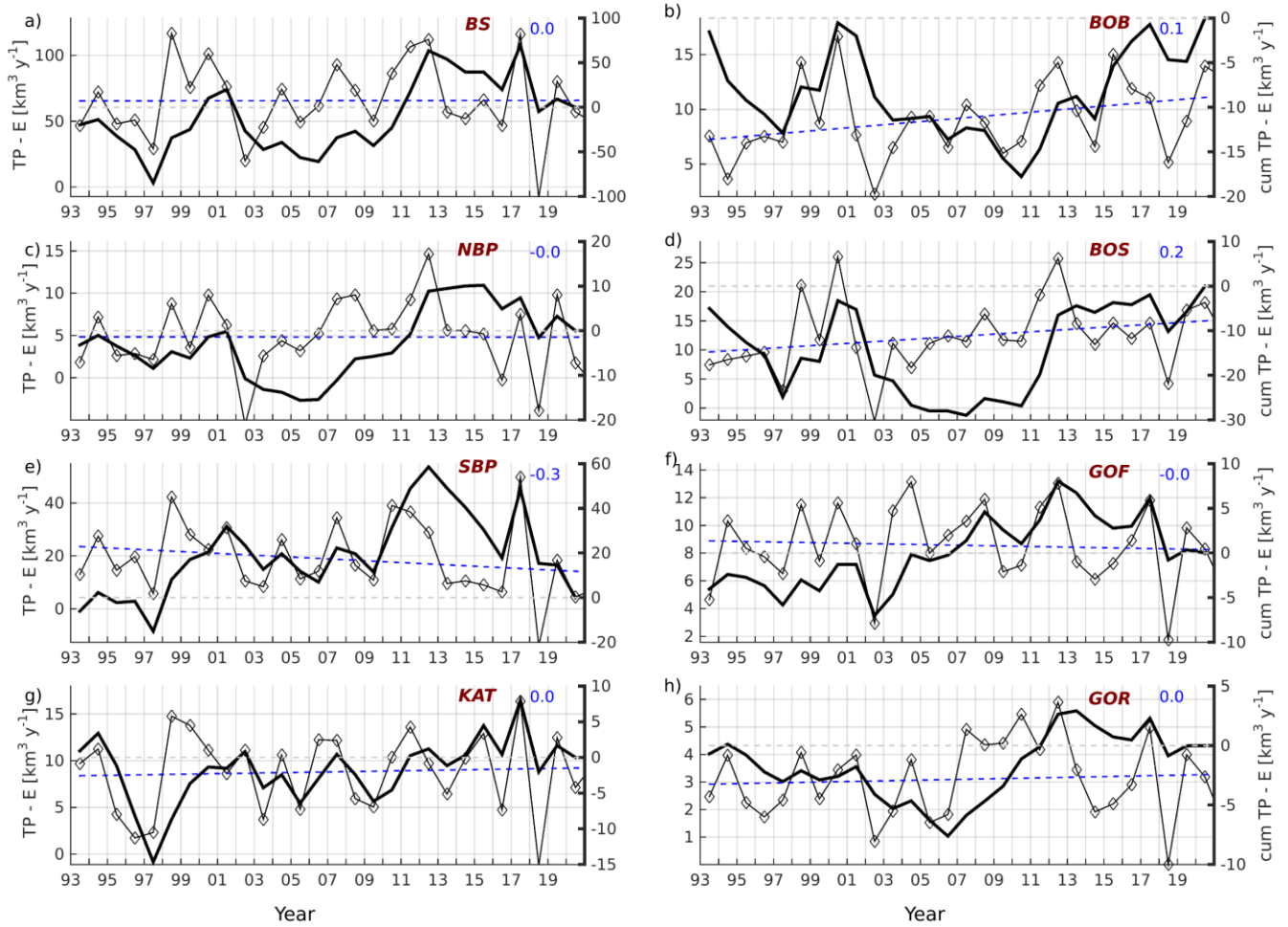


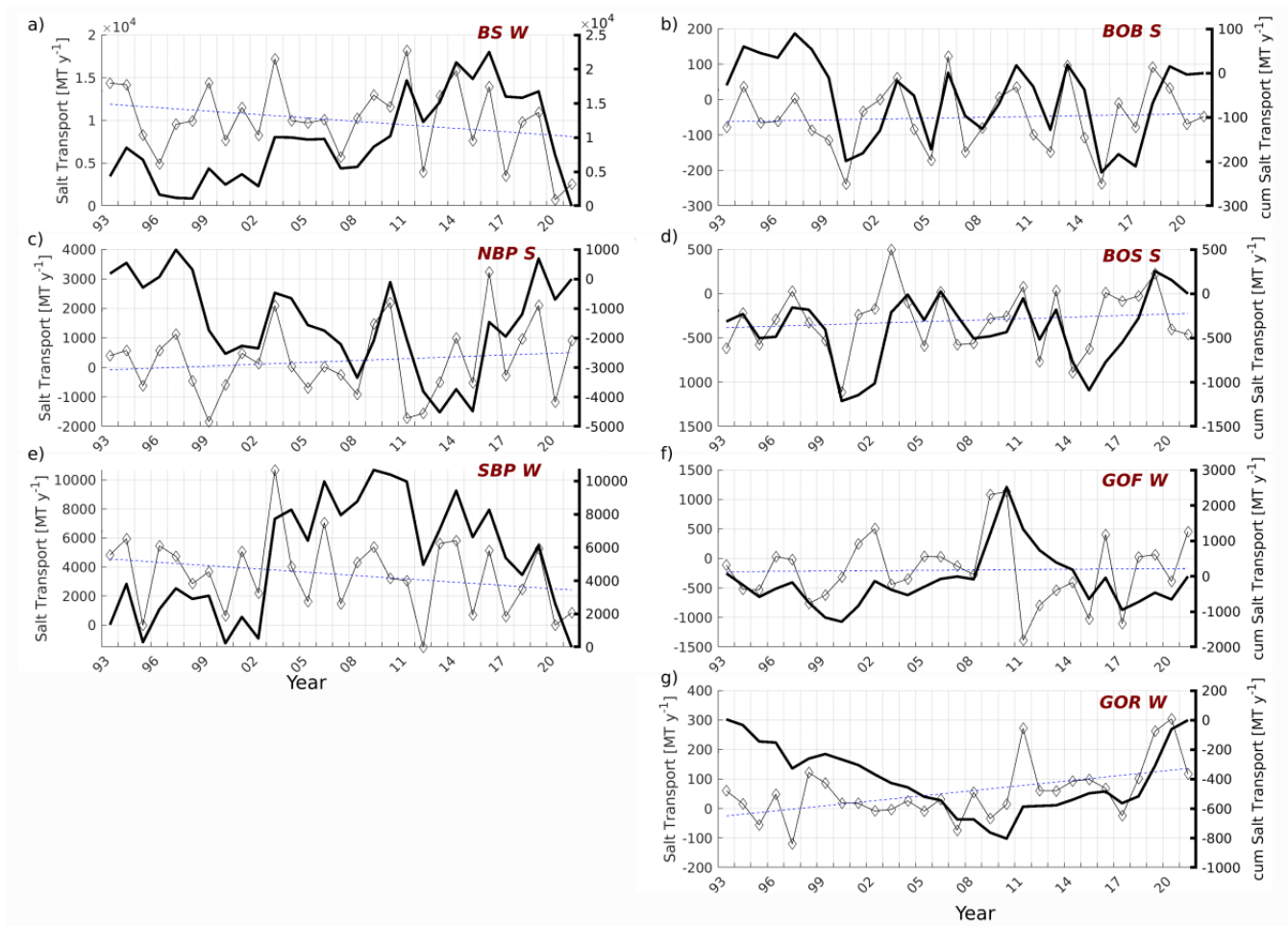
Figure S1. The annual mean runoff (left axis, diamonds) and cumulative anomaly of the mean runoff (thick line). Trends of runoff shown in the upper right corner ($\text{m}^3 \text{ s}^{-1}$ per year). The statistically significant trends (p-value > 0.05) are marked with asterix. The abbreviations for the sub-basins are as follows: BS (Baltic Sea), NBP (Northern Baltic Proper), SBP (Southern Baltic Proper), KAT (Kattegat), BOB (Bay of Bothnia), BOS (Bothnian Sea), GOF (Gulf of Finland), GOR (Gulf of Riga). (data ref. 3, Table 1)



10

Figure S2. The annual net precipitation (precipitation - evaporation) (left axis, diamonds) and cumulative anomaly (right axis, thick line). Trends ($\text{km}^3 \text{y}^{-1}$) shown in upper corner and plot as blue dash line. The statistically significant trends ($p\text{-value} > 0.05$) are marked with asterix. The abbreviations for the sub-basins are as follows: BS (Baltic Sea), NBP (Northern Baltic Proper), SBP (Southern Baltic Proper), KAT (Kattegat), BOB (Bay of Bothnia), BOS (Bothnian Sea), GOF (Gulf of Finland), GOR (Gulf of Riga). (data ref. 2, Table 1)

15



20 **Figure S3.** The annual salt transport between different sub-basins of the Baltic Sea (Fig. 1) (left axis, diamonds) and corresponding cumulative anomaly (right axis, thick line). The abbreviations for the sub-basin boundaries are as follows: BS W (Baltic Sea West), SBP W (Southern Baltic Proper West), NBP S (Northern Baltic Proper South), BOB S (Bay of Bothnia South), BOS S (Bothnian Sea South), GOF W (Gulf of Finland West), GOR W (Gulf of Riga West). (data ref. 2, Table 1)