

SUPPLEMENTARY FIGURE LEGENDS

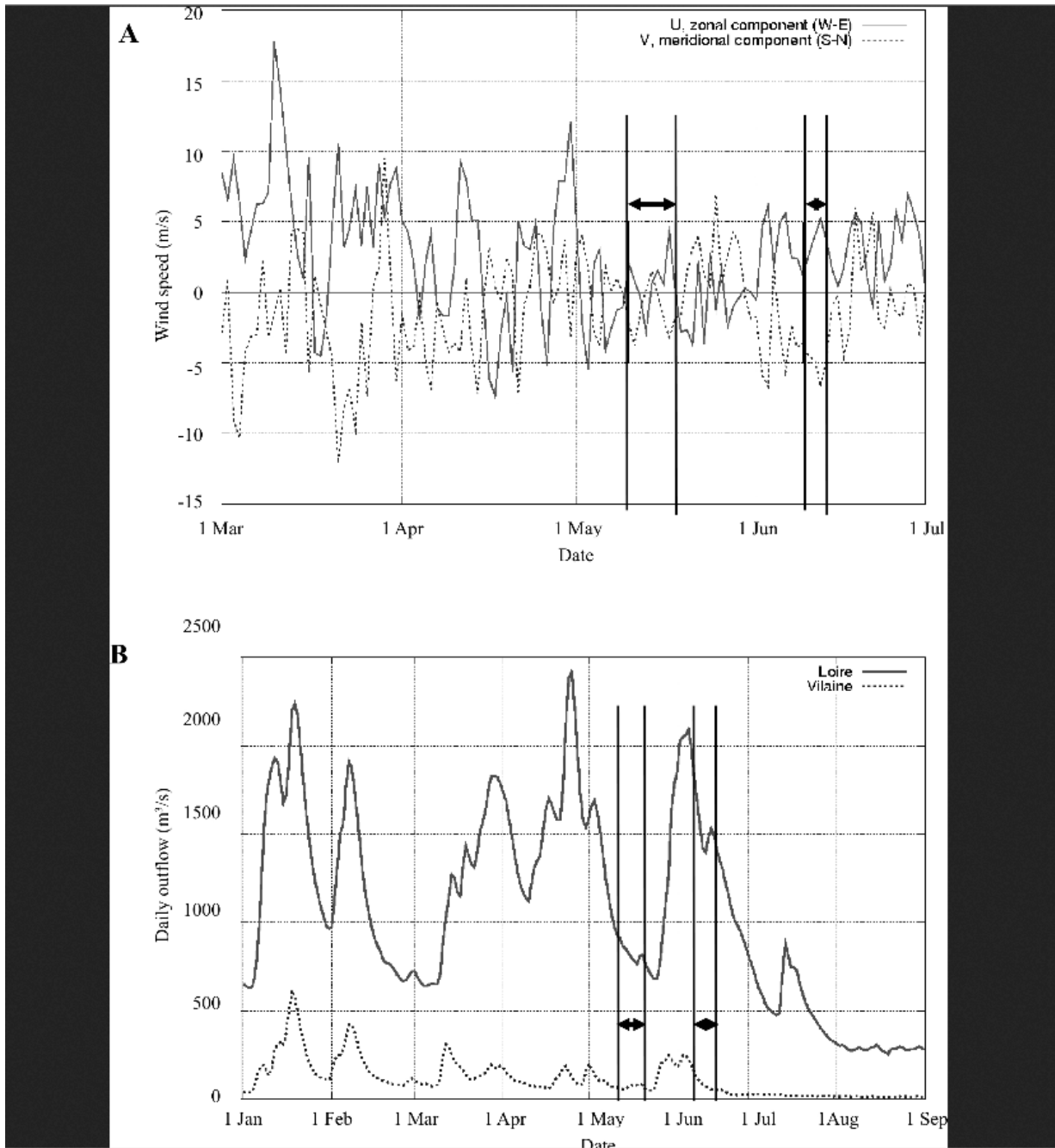
Fig. S1: Hydroclimatic conditions in spring 2008 in the northern Bay of Biscay. (A) Wind conditions at Penmarc'h headland (Météo France data). Daily-averaged zonal (solid line) and meridional (dashed line) wind components are calculated from hourly raw data. Positive zonal and meridional components indicate SW winds. (B) Daily run-offs of the two main rivers of the northern Bay of Biscay from January to September 2008: Vilaine (dashed line) and Loire (solid line). Black arrows indicate the dates of the May and June cruises.

Fig. S2: Vertical hydrological structures along the transects of Douarnenez, Pouldu-Lorient, and Vilaine in May 2008: (A) temperature, (B) salinity and (C) density profiles. Note that the colour scales differ from those in Fig. 2.

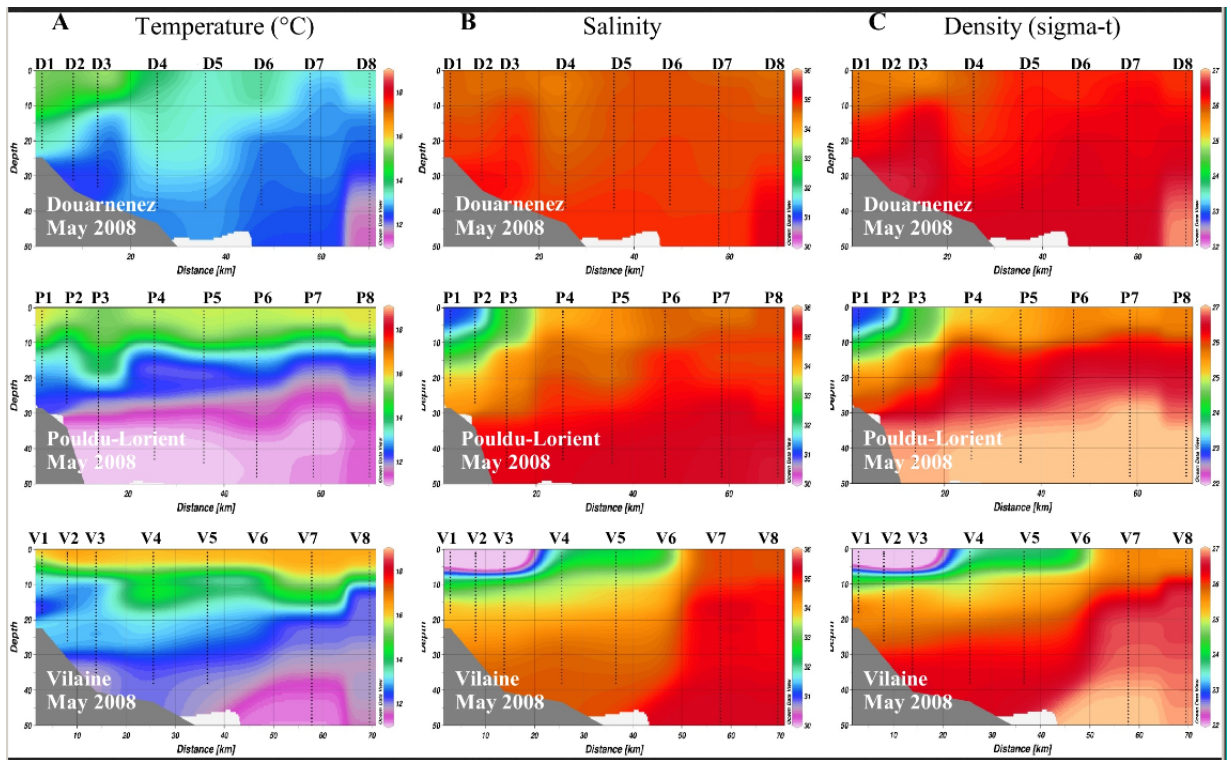
Fig. S3: Vertical hydrological structures along the transects of Douarnenez, Pouldu-Lorient, and Vilaine in June 2008: (A) temperature, (B) salinity and (C) density profiles. Note that the colour scales differ from those in Fig. 2.

Fig. S4: Satellite images of the sea surface temperatures in the Bay of Biscay recorded by the NOAA-17 satellite during the two sampling cruises: (A) May 11 20:00 UTC, (B) May 14 20:00 UTC, (C) May 18 20:00 UTC, (D) June 09 20:00 UTC, (E) June 11 20:00 UTC, (F) June 18 20:00 UTC. Data provided by IFREMER.

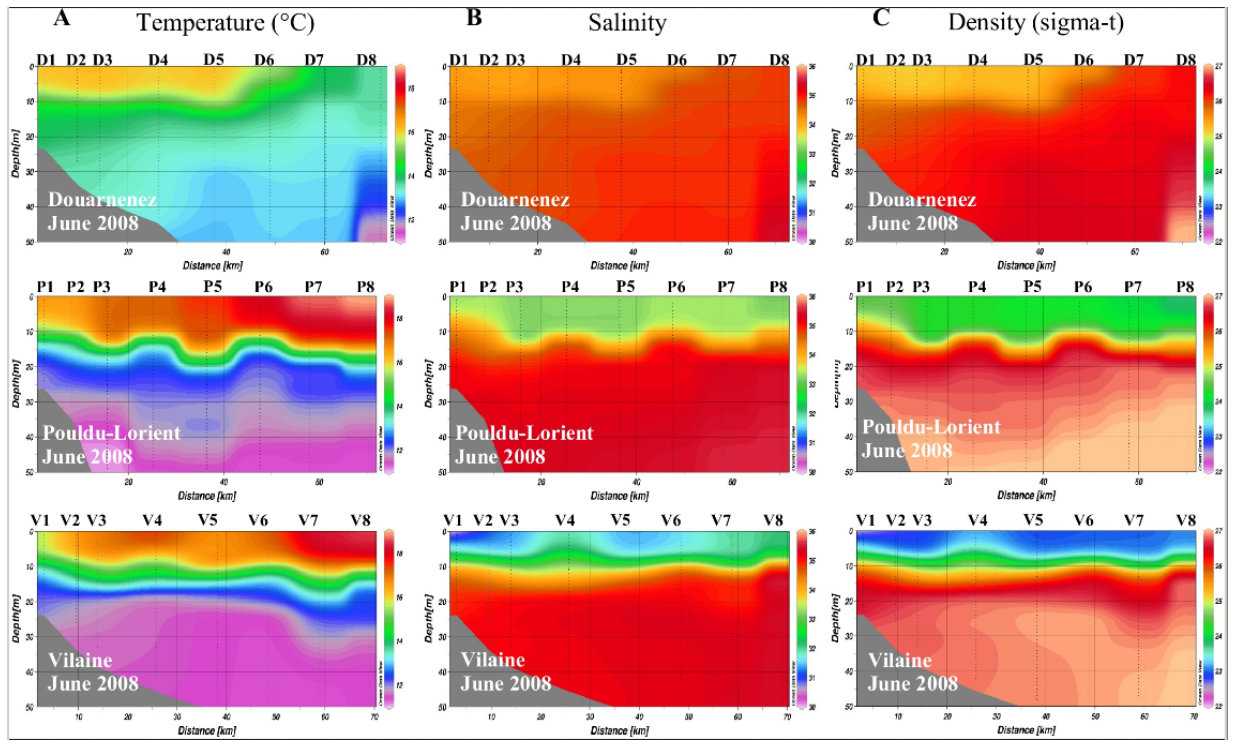
Supplementary Figure 1



Supplementary Figure 2



Supplementary Figure 3



Supplementary Figure 4

