Supplementary materials
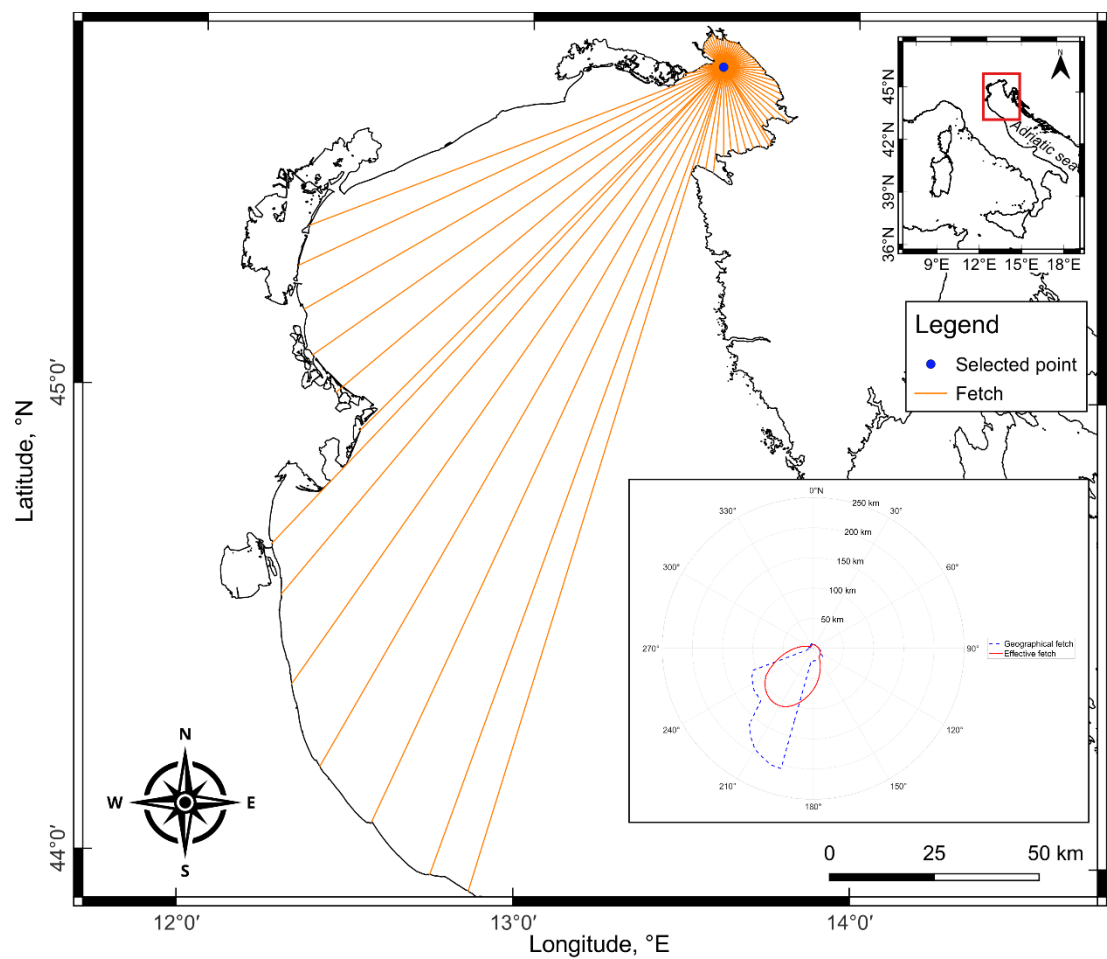
Figure S1: Fetch and selected point.
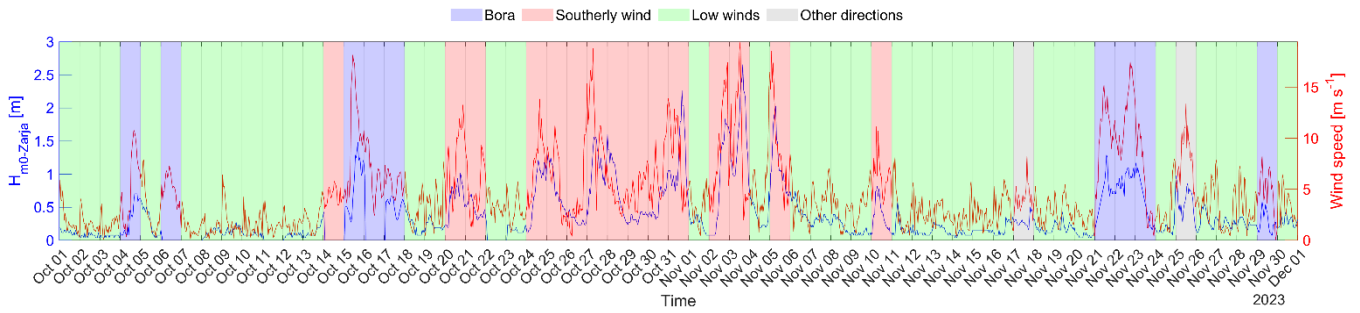
Figure S2: Time series of significant wave height, $H_{m0\text{-}Zarja}$, from Zarja wave buoy (blue), wind speed in WRF$_O$ point (red). The coloured bands represent the same (daily averaged) wind regimes described in the previous paragraph, extracted from the WRF$_O$ point.

a)   b)

c)   d)
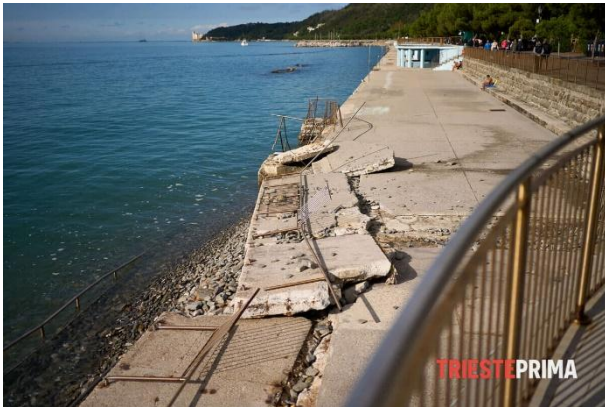
Figure S3: Coastal storm (a-b) and storm damage (c-d) in Barcola coast from https://www.triesteprima.it/foto/cronaca/mareggiata-a-barcola-i-danni-4-novembre/.