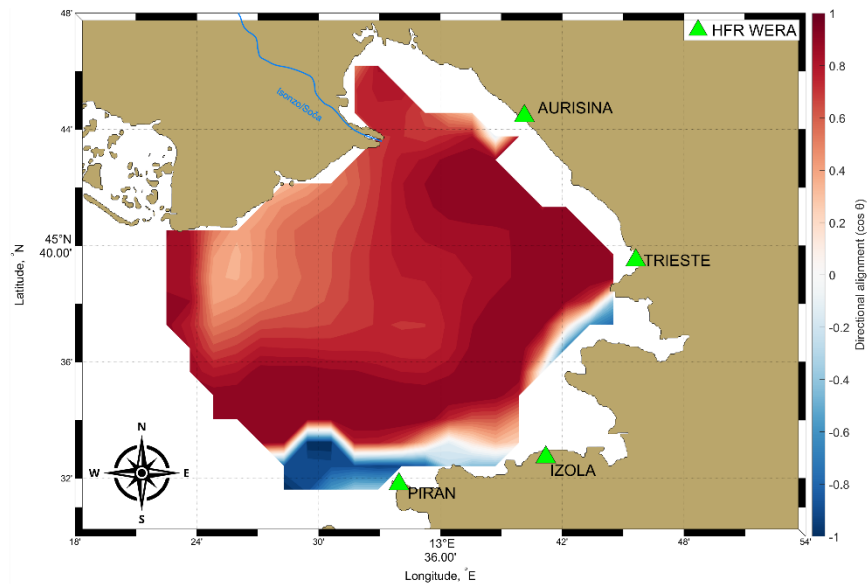
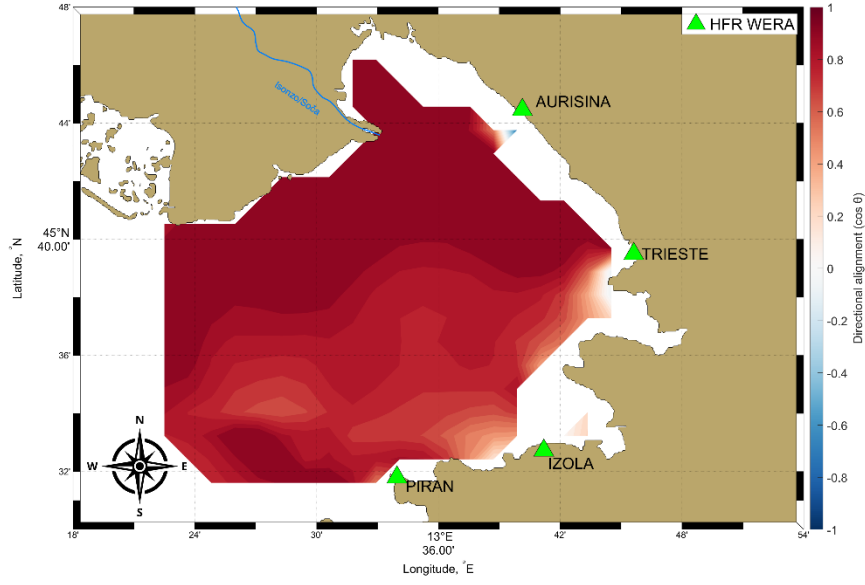


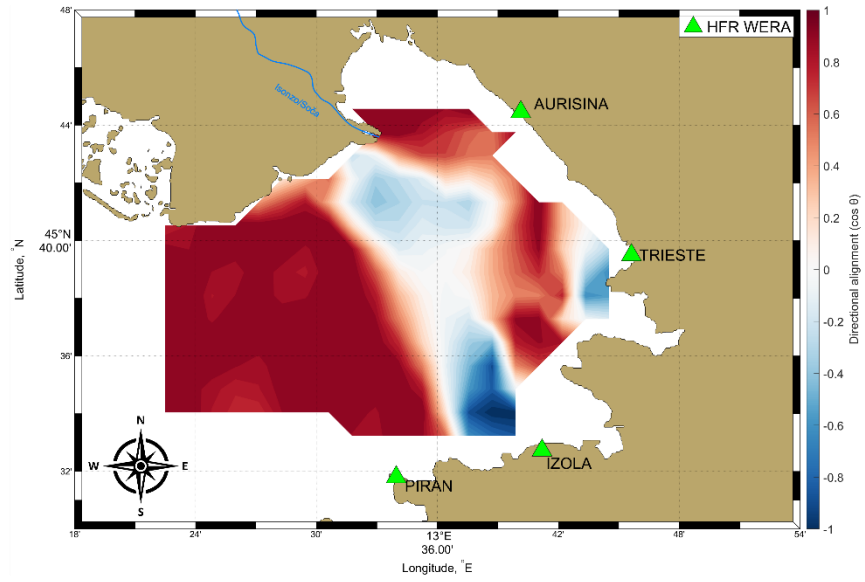
Figure RC2.1: Comparison between Geernaert  $C_d$  and Edson  $C_d$ .



a)



b)



c)

**Figure S1: (a) Directional alignment ( $\cos \theta$ ) map on 15th October 2023 19:00 UTC (Bora event). (b) Directional alignment ( $\cos \theta$ ) map on 27th October 2023 05:00 UTC (Southerly wind event). (c) Directional alignment ( $\cos \theta$ ) map on 28th October 2023 01:00 UTC (Southerly wind and strong river outflow event).**