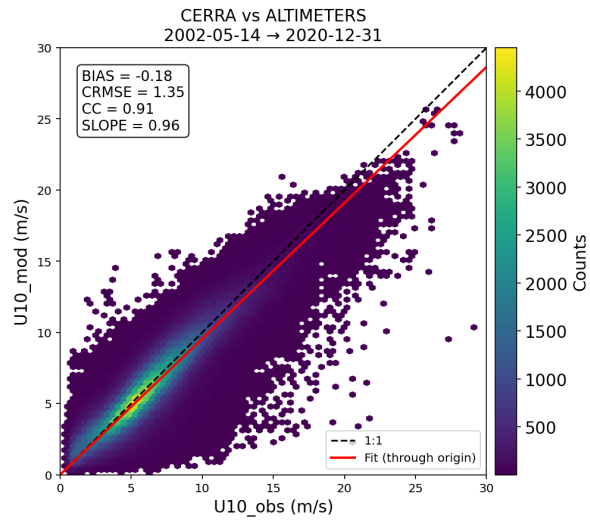


Supplement of The marine and coastal hazards of Mediterranean cyclones

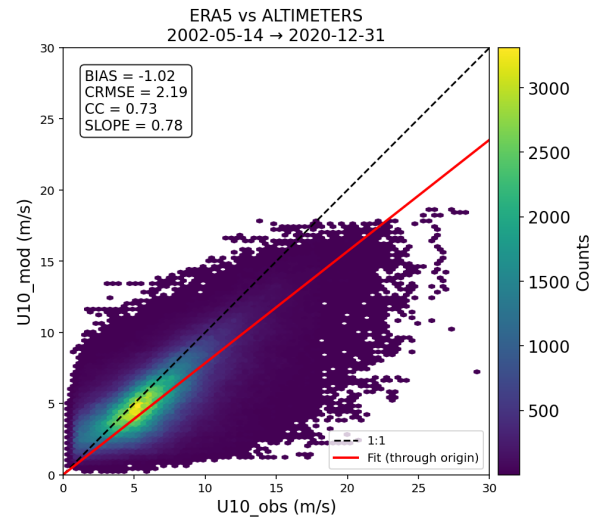
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(a)



(b)

Figure S1. Scatter plot and statistics for wind data: comparison between CERRA and satellite data (a), comparison between ERA5 and satellite data (b).

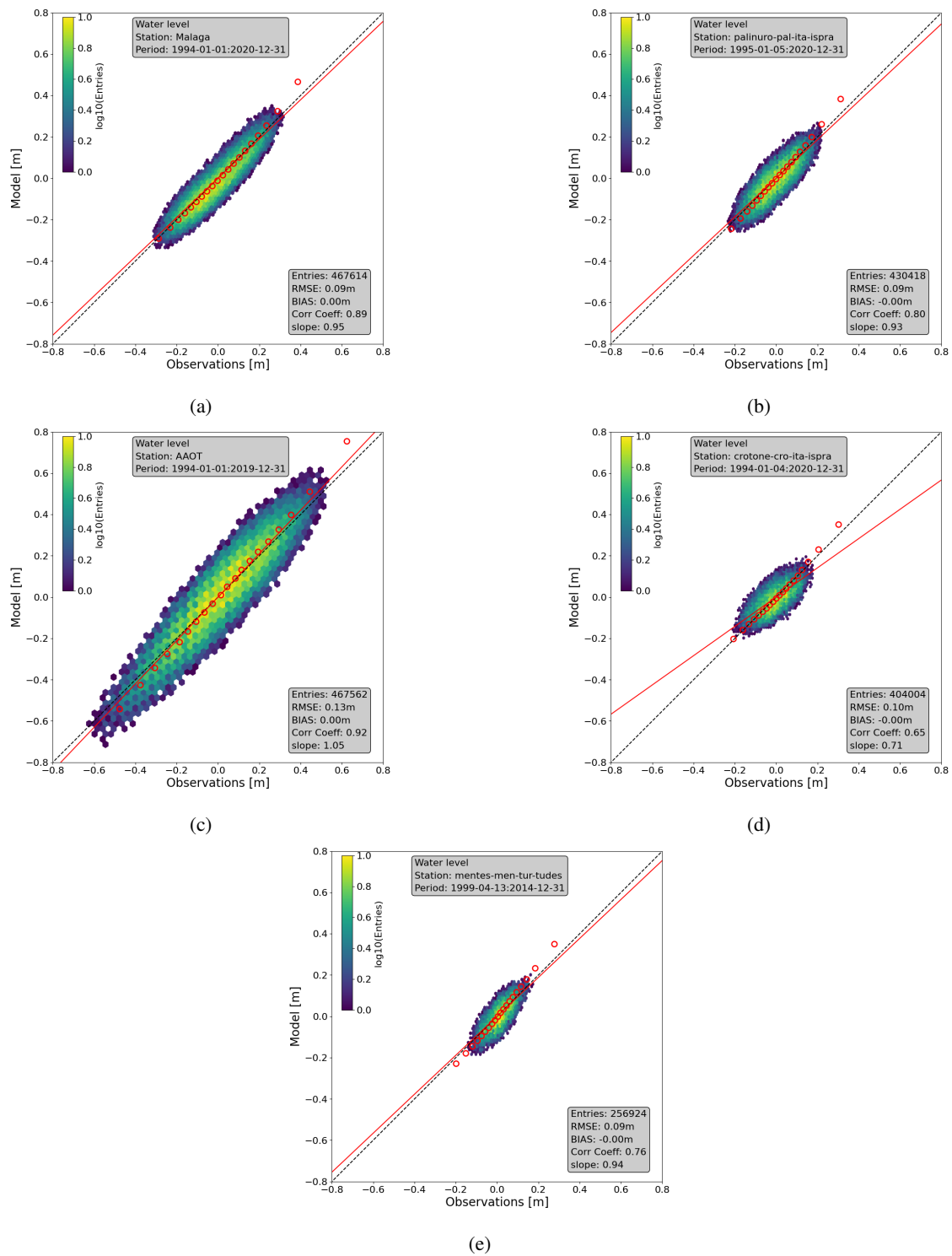


Figure S2. Scatter plot and statistics of the comparison between simulated sea levels and in-situ observations at different stations: Malaga (a), Palinuro (b), AAOT (c), Crotona (d), Mentes (e).

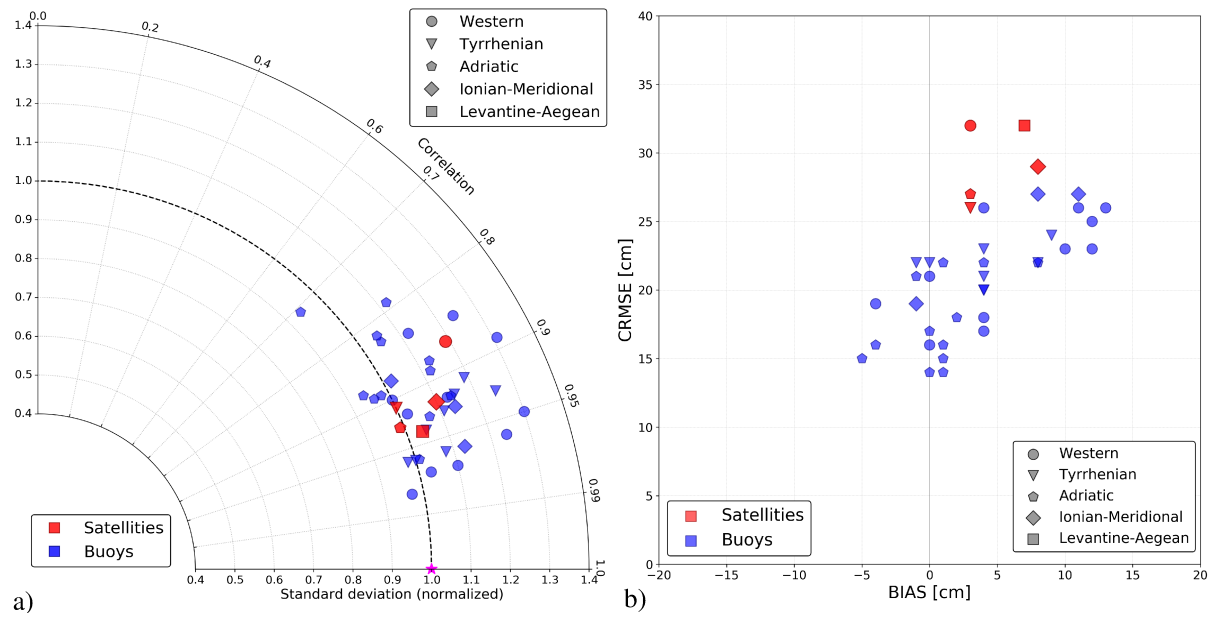
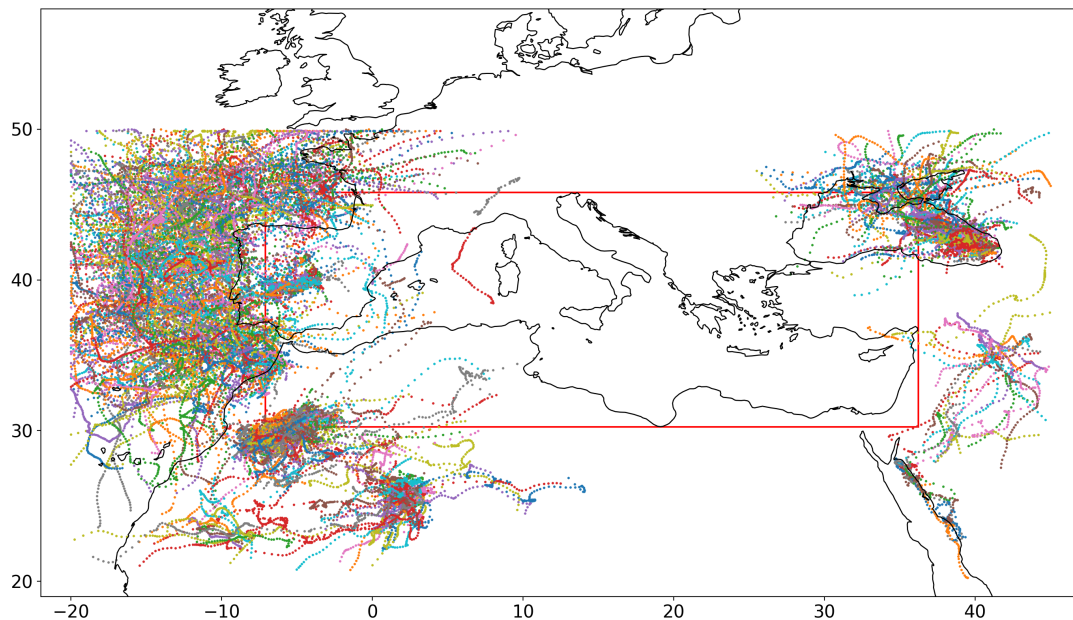
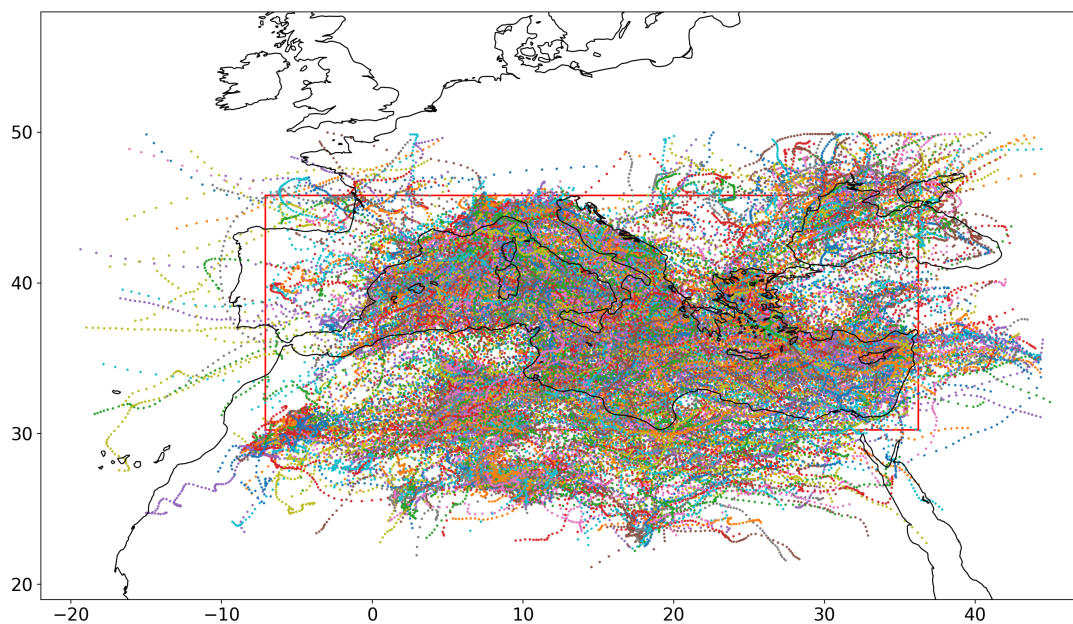


Figure S3. Normalized Taylor diagram (a) and bias diagram (b) displaying the performance of the simulated H_s against buoys and satellite data. The purple star in the Taylor diagram indicates the perfect agreement.



(a)



(b)

Figure S4. Cyclones tracks corresponding to the first mode (a) and to the second mode (b).