Supplement of

Assessment of reliability of extreme wave height prediction models

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This supplementary material comprises of maps showing the study locations and all the plots of GEV, GPD and P-app model analysis for all locations considered in this study.

**Fig. 1:** Selected NOAA-National Data Buoy Centre Station locations

**Fig. 2:** Location of Alghero buoy in Mediterranean Sea
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**Fig. 3(b):** Variation of tail GEV model CDF in logarithmic coordinates for ERA IN-1

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Fig. 3: Comparison of 30-yr values from different estimation models

Table 1: Percentage of variation of 30 year return value estimates from measured maximum wave height (%)

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Fig. 4: Comparison of 100 year values from different estimation models

Table 2: Percentage of variation of 100 year return value estimates from measured maximum wave height (%)