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2 Holstein Baltic Sea coast

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28 Abstract

29 A wind exposure index (EI), which indicates the main physical driver of a coastal system, was developed along the Schleswig-Holstein Baltic Sea (SH) coast – Germany, to demonstrate the 30 highly dynamic coastal stretches (i.e., potential erosion hotspots). The approach used three 31 steps to define more accurate EIs. Initially, a representative wind year (RWY), which has 32 similar physical characteristics as in the long-term data, was defined by analysing measured 33 34 wind data from 2000 to 2019 at four stations distributed in the entire area of interest. The 35 RWY was identified by a statistical comparison of wind speeds in 5 classes and 36 directional sectors between summer to summer yearly wind and the overall data. The selected RWY 36 spanned from 01.09.2016 to 31.08.2017 and showed a reasonable agreement with the overall 37 data (Skill = 0.77 and rmsd = 0.56 m/s). Next, high spatiotemporal nearshore hydrodynamics 38 over the RWY were predicted using a model nesting approach of two domains in Delft3D. 39 40 The predicted nearshore hydrodynamics indicated fair agreements with the measured data (R^2 : 0.87 - 0.90 for water levels and 0.75 - 0.86 for wave heights). Finally, the predicted water 41 42 level and wave height time series in the nearshore area (~ 5 m MSL depth) were used for the analysis of the EI adopting a 2-step procedure capturing short- and long-term correlations as 43 well as seasonal long-range dependencies of the time series. This approach allows to model 44 the clustering behaviour of extreme values of both parameters and provides reasonable EIs 45 along the SH coast. The exposed areas display high EIs (e.g., 1 at the east of Fehmarn), while 46 sheltered areas and bays have low values (e.g., 0 at Eckernförde Bay). The higher the EI the 47 stronger the coastal dynamics and thus strong erosion can be expected. Interestingly, the EI 48 varies considerably even along the exposed coastal stretches with long fetches, which 49 50 indicates the sensitivity of the EI to the local morphology, which determines the nearshore hydrodynamics. Therefore, a definition of the EI based on nearshore hydrodynamics provides 51 an accurate index of local physical drivers of a coastal system. The developed approach can 52 be adopted to any coast, and provides useful information on the potential erosion areas for the 53 54 coastal managers.

55

⁵⁶ Key words: representative wind year, numerical modelling; Delft3D, nearshore

⁵⁷ hydrodynamics, statistical analysis; GARMA-POT, GPD, IID, Baysian-Information-Criterion

59 1. Introduction

60 Wind exposure is a key physical driver in coastal systems and large lake environments defining the accommodating habitat types and the shoreline characteristics (Mason et al., 61 62 2018; Mann and Lazier, 2013; Minns and Wichert, 2005; Burton et al., 2004). Habitat types depend on the exposure of the coast, e.g., suitability for specific plant, fish species (Randall et 63 al., 1996; Zarski et al., 2004), and thus influencing on the coastal ecosystems. Wind exposure 64 affects on the coastal morphology by shoreline erosion rates, sediment sorting and 65 resuspension (Marsh and Marsh, 1987; Schwab et al., 2000). In the offshore area, the basin 66 scale processes (e.g., thermal stratification, upwelling/downwelling) are governed by wind 67 exposure (Yurista et al., 2016; Plattner et al., 2006). In a semi-enclosed system, such as the 68 69 Baltic Sea, different wind pattern and complex topo-bathymetry surrounded by islands drive entirely the nearshore hydrodynamics (Soomere, 2023). The severity of hydrodynamics is 70 71 well replicated by the occurrence of water levels and wave heights, which drive local currents determining sediment transport and thus morphological state of the coast (Dissanayake et al., 72 2021a). Therefore, an attempt to combine wave heights and water levels representing 73 nearshore hydrodynamics would provide a more specific index to quantify the effect of wind 74 75 exposure for a particular stretch of this coast.

Wind exposure is commonly measured as fetch, i.e., the distance over which wind can travel 76 77 across open water (Mason et al., 2018). Several methods are employed for estimating fetch in 78 systems like the Baltic Sea. A simple approach calculates direct fetch from the dimensions of the water body (maximum length, length and width, surface area) (Klaff, 2002; Håkanson, 79 1981). This approach has been improved by averaging the fetch over several wind directions, 80 which accounts for the dominant variations of the wind patterns, so called effective fetch 81 (Håkanson, 1981). The effective fetch was further expanded by Keddy (1982), in which a 82 relative exposure index was developed by incorporating both wind speed and direction. In 83 contrast to these approaches, we develop a spatially discrete variable along the Baltic Sea 84 85 coast, exposure index (EI), by statistically optimising the predicted water levels and wave 86 heights of numerical modelling to provide a more accurate indicator of the influence of wind exposure in the nearshore hydrodynamics, which affect on the physical setup of the coast. 87

88 Numerical modelling studies in the Baltic Sea have mainly investigated large-scale

hydrodynamic processes (e.g., Soomere, 2023; Brünning et al., 2018; Gräwe and Burchard,

2012). Soomere (2023) provided a review of different approaches of wave modelling,

advancements, inter-comparisons and future need of improvements, and their suitability of

applications. He further emphasized the requirement of high-quality wind fields though there 92 are sophisticated models. The effect of fetch on wave generation and propagation is a main 93 phenomenon of these numerical models in estimating hydrodynamics. Brünning et al. (2018) 94 presented an operational numerical model (BSH-HBM) combining the North Sea and the 95 Baltic Sea together, which provides several physical parameters (e.g., water level, current, 96 wave height, surface temperature). In the case of the Baltic Sea, it is highlighted that input of 97 correct basin-scale oscillations (seiches) and wind fields is of importance to predict more 98 99 accurate parameter values. Occurrence of storm surges for present and future scenarios was 100 simulated in the western part of the Baltic Sea by Gräwe and Burchard (2012). For the future 101 scenarios, they found an increase of mean wind speed approximately by 4%, and the 102 sensitivity analysis by increasing wind speed leads to high surge levels. These example largescale studies disclosed that wind is the main governing parameter for the Baltic Sea dynamics. 103 104 In our modelling approach, we used a model nesting approach to downscale large-scale forcing to the local scale, i.e., the SH coast. The largest domain was simulated with the 105 106 forcing obtained from the Baltic Sea Scale model of Gräwe et al. (2015). Such approach 107 enables to predict the nearshore hydrodynamics in high spatiotemporal resolutions along the 108 SH coast starting with the large-scale forcing.

Statistical modelling is commonly used to analyse the occurrence of extreme events following 109 the popular Peak-Over-Threshold (POT) approach (Davison and Smith, 1990) in coastal (e.g., 110 Bernardara et al., 2011; Dissanayake et al., 2021a,b) and ocean (e.g., Méndez et al., 2006; 111 Cañellas et al., 2007) engineering applications. However, in the case of cyclical behaviour and 112 strong dependence structures in the underlying time series, as expected in the Baltic Sea, the 113 standard POT model faces the problem of strong clustering effects of the extremes. To 114 115 address this complication, a novel two-step procedure which is based on the approach in Dissanayake et al. (2021b) is herein developed. The first step estimates the cyclical structure 116 117 and models the dependence structure in the data. Filtering the data by the estimated effects results in independently and identically distributed (*iid*) residuals. To these residuals, we 118 119 apply in the second step the standard POT model, for which the threshold parameter is estimated by using the automatic threshold selection procedure of Thompson et al. (2009). 120 This procedure provides POT quantiles for the *iid* residual series. To obtain interpretable 121 quantiles for the original series, the respective quantiles for our original data is computed thus 122 123 taking cycles and dependence structures into account.

The main objective of our study is to define a high spatial resolution index (EI), which is 124 governed by the local physical processes along the coast of Schleswig-Holstein Baltic Sea 125 (SH) in Germany, to indicate the severity of the wind exposure. Our main motivation is to 126 identify the highly dynamic coastal stretches (i.e., potential erosion hotspots), which demand 127 high management interventions. Our approach uses numerical modelling to develop high 128 spatiotemporal hydrodynamics along the coast and statistical modelling to derive the EI 129 combining the variations of water levels and wave heights. Our main hypothesis is, even at 130 131 the coastal stretches with long fetches, there could be considerable variations of the EI 132 depending on the nearshore morphology, which drives the local hydrodynamics. Therefore, a definition of the EI using nearshore hydrodynamics provides more accurate status of a coast 133 rather than an estimation of EI using fetch lengths and wind parameters. 134

135 To achieve the main objective, the performed work is presented in the following sequence.

136 Section 2 describes the study area and the collected field data. The study approach is

elaborated in section 3, and the results are given in section 4. In section 5, our results are

discussed with the previous studies. Section 6 provides the conclusions of this study.

139 2. Study area and field data

140 2.1 Study area

Study area is the Schleswig-Holstein Baltic Sea (SH) coast, which spans from Flensburg to 141 142 Travemünde of the German Blatic Sea coast (Figure 1a). This coastal stretch has a length of about 399 km (mainland: 328 km and Fehmarn Island: 71 km), and consists of different 143 144 geomorphological features varying from sandy beaches, coastal lowlands to cliff coasts (Averes et al., 2021). These features are evidence of the deposition of glacial and interstadial 145 sediment processes during the Pleistocene (Dreimanis and Lundqvist, 1984). The Pleistocene 146 deposits were increasingly affected by marine forces with the Holocene sea level rise 147 148 (Fleming et al., 1998). Therefore, the present-day formation of the coastline is a result of erosion, material transport and deposition processes. Cliff erosion largely contributes to the 149 littoral sediment budget (Averes et al., 2021). The active cliffs (i.e., with the influence of 150 marine hydrodynamic forces) represents about 85 km (~20%) of the coastline (LKN-SH, 151 2023). In the last century, the cliff retreat occurred averaged annual rate of about 0.2 m/year 152 (Ziegler and Heyen, 2005). Bed sediment composition of the nearshore area has a very wide 153 grain-size spectrum consisting of silt/clay, sand, pebbles and boulders (Ehlers, 2020). 154

Environmental forcing along the SH coast varies from Flensburg to Travemünde depending 155 on the local coastline orientations and the prevailing morphological features. Water level 156 oscillation of this micro-tidal coast is mainly governed by the occurrence of seiches, which 157 has a period of more than a day in the western part of the Baltic Sea (Metzner et al., 2000). 158 The minimum and maximum water levels reached during the analysis period (2016 - 2017) 159 are about -0.9 m and 1.6 m respectively, while astronomical tidal range is about 0.2 m at S3 160 (see Figure 2). However, Dissanayake et al. (2022) showed that the micro-tidal contribution to 161 162 water levels has an important role in sediment transport along this coast. Locally generated 163 sea waves dominate based on the predominant fetch length, while swell contribution is negligible (Mason et al., 2018). The coastal stretches facing to the NE direction deserve for 164 long fetch lengths. The major dynamics in the Baltic Sea are governed by the wind driven 165 processes (Soomere, 2023). Dominant wind approach is within the sector from SW-NW. 166 167 However, extreme events (wind magnitude > 15 m/s) occurred during the analysis period from the N-NE sector (LKN-SH). Such events can result in average velocity pattern towards 168 169 west along the coast, though the dominant wind approach favours it towards east, and so does the sediment transport (Dissanayake et al., 2022). 170



- 172 Figure 1. Location of Schleswig-Holstein (SH) Baltic Sea coast, Germany (a), Spatial wind-data grid
- 173 from German Weather Service (DWD) (<u>https://opendata.dwd.de</u>) (b), SH model grid enclosing the
- 174 coast from Frederecia (Denmark) to Puttgarten (Germany) (c), and SHC model grid spanning from
- 175 Sønderborg (Denmark) to Kühlungsborn (Germany) covering the entire SH coast from Flensburg to
- 176 Travemünde (d), and the selected wind measuring stations operated by DWD: N1 (Schönhagen), N2
- 177 (Fehmarn), N3 (Warnemünde) and N4 (Darss). Orange-line indicates the coastline from European
- 178 Environmental Agency (<u>https://www.eea.europa.eu</u>).
- 179

180 2.2 Field data

For this investigation, water levels, wave characteristics, bathymetry data and coastline were
collected from different sources covering the analysis period, together with the long-term
measured wind data along the SH coast and the forecasted spatiotemporal wind fields.

Long-term measured wind data was collected from German Weather Service (DWD: 184 https://opendata.dwd.de) for four stations, which are distributed along the SH model domain 185 (see locations N1 - N4 in Figure 1), to define a representative wind year. The data set has a 10 186 187 minutes resolution and different coverage depending on the station, i.e., Schönhagen (N1): 1995 – 2019, Fehmarn (N2): 1996 – 2019, Warnemünde (N3): 1992 – 2019 and Darss (N4): 188 2000 - 2019. The forecasted spatiotemporal wind fields were obtained from DWD for the 189 period of 2016 - 2017 to drive the numerical simulations. These data are based on the 190 191 COSMO (COnsortium for Small-scale MOdelling) reanalysis with temporal and spatial resolutions 1 h and 6 km \times 6 km respectively. For the same period, measured water levels and 192 193 wave characteristics were collected from the Federal Maritime and Hydrography Agency (BSH). Water level data were collected from six stations from Flensburg to Travemünde (see 194 S1 - S6 in Figure 2), and wave characteristics were employed from three buoy locations (see 195 W1 – W3 in Figure 2). Water level data has a 1 minute resolution at all stations, while the 196 wave buoy at W1 (LTKiel, Figure 2) provides 1 h resolution of data, and that of W2 197 (Schoenbeg-Coast) and W3 (Schoenberg-Nearshore) is 10 minutes. These data were used for 198 the model calibration and validation. For the forcing at the open boundaries of the SH model 199 (Figure 1c), spatiotemporal water levels (resolution 1 h) were obtained from the Baltic Sea 200 scale model (Gräwe et al., 2015). The model bathymetries were set up using two sources of 201 data. For the nearshore area, the high resolution BSH data (50 m \times 50 m), which covers the 202 German Baltic Sea coast, was used, while the offshore bathymetry is based on the coarse 203 204 resolution data (660 m \times 750 m) from the Baltic Sea research institute Warnemünde (IOW), Germany. The nearshore area consists of shallow planes (see SHC bathymetry in Figure 2). 205 206 To set up the model domains, the coastline, which was obtained from European 207 Environmental Agency (EEA: https://www.eea.europa.eu), was followed. For the analysis of nearshore hydrodynamics, model predicted water levels and wave heights were monitored at 208 209 the coastal points, which are located around 5 m depth with 500 m spacings along the entire SH coast. These points were defined based on the existing coastal reference points from the 210 Schleswig-Holstein coastal agency (LKN-SH), which are spaced by 50 m along the coast. The 211 212 total number of 500 m spacing points counts 675 following the local variations of the

213 coastline.



Figure 2 SHC model bathymetry constructed using BSH (<u>https://www.geoseaportal.de</u>) and IOW
(<u>https://www.io-warnemuende.de/topography-of-the-baltic-sea.html</u>) bathymetry data. Colour
indicates water depths. Water level measuring stations are indicated with S1 (LTKalkgrund), S2
(SchleimündeSP), S3 (LTKiel), S4 (Heiligenhafen), S5 (Marienleuchte) and S6 (Tavemünde), and
wave buoy locations are shown with W1 (LTKiel), W2 (Schoenberg - Coast) and W3 (Schoenberg Nearshore). Orange-line indicates the coastline from EEA (https://www.eea.europa.eu).

222

3. Approach

- 224 Our approach is based on the occurrence of wind, which is the main driver for
- hydrodynamics, and in turn sediment transport and morphodynamics in the micro-tidal Baltic
- 226 Sea (Soomere, 2023).
- 227 To classify an accurate physical index considering long-term wind data and nearshore
- 228 hydrodynamics, there are three steps in the analysis, (1) Defining a representative wind year
- for the model simulations, (2) Numerical modelling to develop nearshore water level and
- 230 wave height variations, and (3) Statistical modelling to derive an exposure index (EI) along
- the SH coast.
- 232 3.1 Representative Wind Year (RWY)
- 233 To define a general EI, the analysis needs to be carried out covering a large data set. This
- requirement was circumnavigated by estimating a RWY, which has similar characteristics to
- the long-term wind data set.

The measured long-term wind data from four DWD stations (<u>https://opendata.dwd.de</u>), which

- are distributed along the coast of the SH domain, were selected for this analysis (see locations
- in Figure 1). As mentioned earlier, the temporal coverages of the data sets vary depending on
- the station. Therefore, the data from a common coverage from 2000 to 2019 was used to
- analyse a representative wind year.

Initially, wind years were defined from summer to summer considering adjacent years (e.g., from 01 September 2000 to 31 August 2001, from 01 September 2001 to 31 August 2002 and so on). Then, the probability of occurrence of wind speeds was binned considering 6 wind speed classes (*m*) with 5 m/s intervals (0-5, 5-10,, 25-30) and 36 directional classes (*n*) with 10° intervals (i.e., 0-10, 10-20, ..., 350-360). For each bin, the probability (*p*) was estimated using Eq. 1.

247
$$p_{i,j} = \frac{\{S(S_{i-1,j} < S \le S_{i,j} | | D_{i-1,j} < D \le D_{i,j})\}}{\{S\}}$$
(1)

248 where, *S* is wind speed (m/s), and $i \rightarrow 1:m, j \rightarrow 1:n$

Next, a representative wind speed for each bin (*a*) was evaluated considering the respectivewind events and the probability of occurrence using Eq. 2.

251
$$a_{i,j} = \frac{p_{i,j} \sum_{q=1}^{k} S_q}{k p_{i,j}}$$
(2)

252 where, k is number of wind events in a bin

Along the SH coast, wind approach determines the prevailing fetch length, and hence wave heights. Therefore, a representative wind speed for each directional class (rs) was finally estimated using the respective binned representative wind speed (a) and the probability of occurrence (p) as in Eq. 3.

257
$$rs_{j} = \frac{(p_{i,j}a_{i,j} + p_{i+1,j}a_{i+1,j} + p_{i+2,j}a_{i+2,j} + \dots + p_{m-1,j}a_{m-1,j} + p_{m,j}a_{m,j})}{\sum_{i=1}^{m} p_{i,j}}$$
(3)

This procedure was repeated for each wind year $(rs_{j,y})$ and for the overall wind climate from 2000 to 2019 $(rs_{j,o})$. By comparing $rs_{j,y}$ and $rs_{j,o}$ using statistical parameters (see 3.4), the best representative yearly wind climate for the overall wind data from 2000 to 2019 was defined as RWY.

263 3.2 Numerical modelling

The aim of numerical modelling is to develop high spatiotemporal water levels and wave 264 heights representing nearshore hydrodynamics along the SH coast, which are difficult to 265 obtain from the field measurements. The Delft3D modelling suite was herein employed to 266 267 simulate the nearshore hydrodynamics. After model calibration and validation against the 268 available field measurements, the nearshore hydrodynamics were simulated over the RWY and the predicted water level and wave height variations (i.e., 10 minutes intervals) were 269 270 extracted at the predefined 500 m spacing coastal points (see 2.2) representing the high 271 spatiotemporal data to derive the EI.

3.2.1 Delft3D Modelling suite

273 Delft3D is an open-source three-dimensional model based on a finite difference approach (Lesser et al., 2004; Stelling, 1984; Stelling and Lendertse, 1991), and has shown skill in 274 simulating nearshore hydrodynamics for a wide range of case studies (e.g., Hunt et al., 2017, 275 Van Ormondt et al., 2020; Dissanayake and Winter, 2020). In the present analysis, a depth-276 averaged approach (2DH) was used. The wave dynamics were simulated by online wave 277 278 coupling with the wave model, SWAN (Booij et al., 1999), which allows simulating wave-279 current interactions at a specified time interval. A 1 h interval was used to capture the tidal variation, and the temporal resolution of the wind (1 h). Waves are exclusively internally 280 281 generated within the model domains (see 3.2.2). Water level variation from micro-tidal contribution and seiches in the Baltic Sea plays an important role in estimating 282 283 hydrodynamics (Dissanayake et al., 2022). Therefore, including wave-current interactions is a prerequisite to accurately simulate the nearshore hydrodynamics. 284

3.2.2 Model domains and boundary forcing

A nested modelling approach was used to downscale the large-scale forcing (SH, see in

- Figure 1) to the local-scale high resolution simulations (SHC). The SH domain has the
- maximum grid resolution at the coast of $300 \text{ m} \times 500 \text{ m}$ (cross- \times alongshore), while it is 75
- $m \times 125$ m in SHC. Bathymetries of both domains were prepared by combining the high
- resolution BSH data and the coarse resolution IOW data (see SHC model bathymetry in
- Figure 2). Each domain consists of two open boundaries (SH: east and west, SHC: east and
- north). The SH model was first simulated applying spatiotemporal water levels at the east and
- the west boundaries, and online-coupling with waves. These water levels are embedded with
- local (wind, wave) and large (tide, seiches) scale oscillations. Using the predicted results of
- 295 SH, boundary forcing for the SHC model was established (east: currents and north: water

levels). Then, the SHC model was simulated forcing with these boundaries together with the
wave-current interaction, which was set up by online-coupling with SH. It should be noted
that the wave boundary of the SH model was set to dummy values as there is no influence
from boundary waves to the waves in the area of interest according to our initial sensitivity
analyses.

301 3.2.3 Simulations

Initial simulations were carried out for calibration (M1 - M7) and validation (V1 - V2 in

Table 1), and thereafter the model was simulated for the RWY. The calibration simulations

spanned for the period of January 2016 applying different bed roughness schemes: spatial

305 constant (M1 – M5) and spatial varying (M6 – M7) Chézy values. Using the calibrated model,

the validation was performed by simulating the model for two independent periods:

307 September 2016 and January 2017. The model covering the RWY was finally simulated to

308 monitor the nearshore water level and wave height variations.

309

Simulation		Bed roughness scheme	Period
	M1	Chézy (<i>C</i>): 40 m ^{$1/2$} /s	January 2016
	M2	Chézy (<i>C</i>): 50 m ^{$1/2$} /s	
	M3	Chézy (<i>C</i>): 60 m ^{$1/2$} /s	
Calibration	M4	Chézy (<i>C</i>): 65 m ^{1/2} /s	
	M5	Chézy (<i>C</i>): 70 m ^{1/2} /s	
	M6	Manning (<i>n</i>): 0.022 s/m ^{1/3}	
	M7	Manning (<i>n</i>): 0.025 s/m ^{$1/3$}	
Validation	V1	M2	September 2016
vandation	V2	M2	January 2017
Representative wind	year	M2	01 September 2016 – 31 August 2017
(RWY)			

310

311 Table 1 Simulations undertaken for calibration using different bed roughness schemes (Spatial

312 constant M1 – M5: *C* and Spatial varying M6 – M7: $C = \sqrt[6]{H}/n$, where *H* (m) is water depth) and

validation, and for the representative wind year (RWY) to monitor nearshore hydrodynamics

The SH domain was simulated applying a time step (Δt) of 5 minutes and a spin-up period of

315 3 days. Hydrodynamic simulation over the RWY took about 3.5 days using 60 nodes in the

316 CAU HPC cluster (CAU: Christian-Albrechts-Universität zu Kiel). The SHC domain was

simulated applying a Δt of 1 minute, and took 31 days to simulate hydrodynamics over the

- RWY using 64 nodes in the cluster. It should be noted that the optimised number of nodeswere selected through sensitivity analyses.
- 320 3.3 Statistical analysis

Occurrence of water levels and wave heights determines the severity of nearshore
hydrodynamics, which drive sediment transport and in turn morphological changes
(Dissanayake et al., 2021a). This is particularly applicable for the SH coast as both these
physical parameters are dominated by wind. Therefore, the predicted high spatiotemporal
water levels and wave heights (3.2) are hereon employed in the statistical analysis to estimate
an accurate EI.

327 The derivation of the EI uses a 2-step generalized autoregressive moving average (GARMA)-POT model (POT: Peak-Over-Threshold), generalizing the approach of Dissanayake et al. 328 329 (2021a,b) for non-cyclical data. Applying a POT method uses the fact that exceedances of a threshold converge to a Generalized-Pareto-Distribution (GPD) for independent and 330 identically distributed observation. In our situation, this is not the case as the data is highly 331 332 cyclical and persistent. Therefore, the exceedances over a threshold are subjected to clustering effects and thus the POT model is no longer applicable. We therefore have to pre-filter the 333 data to obtain independent and identically distributed residuals, which eliminate the 334 exceedance clusters and allow application of the POT model. Our approach is twofold. The 335 336 first step models the cycles and dependence structure of the data by fitting the k-factor GARMA of Giraitis and Leipus (1995) and Woodward et al. (1998). This model generalizes 337 the autoregressive fractionally integrated moving average (ARFIMA)-model for strongly 338 339 dependent data by allowing for cyclical long memory. In the second step, the POT model is 340 applied to the data.

341 3.3.1 Step 1 - k-factor GARMA

Cyclical long-range dependence can be regarded as an intermediate case between a shortrange dependent cyclical process and a cyclically integrated model. We focus on the *k*-factor GARMA model (GARMA-*k*), which was proposed by Gray et al. (1989) and generalised by Giraitis and Leipus (1995) and Woodward et al. (1998). This type of model represents a generalisation of ARFIMA processes since it allows for poles in the spectral density at arbitrary frequencies instead of the zero frequency alone. Therefore, the GARMA-*k* process can model different degrees of long-range dependence at any desired periodic frequency. Assuming that Y_t is zero-mean white noise with variance σ_u^2 , the *k*-factor GARMA model is given by

351
$$\Phi(L) \prod_{a=1}^{k} (1 - 2\cos\gamma_a L + L^2)^{d_a} X_t = \Theta(L) Y_t$$
(4)

352 where, $\Phi(L) = 1 - \phi_1 L - \dots - \phi_p L^p$

 $\Theta(L) = 1 - \theta_1 L - \dots - \theta_q L^q$

with *p* and *q* being non-negative integers, d_a representing the memory parameter associated with the a^{th} cyclical frequency γ_a , and *L* denoting the lag operator such that $LX_t = X_{t-1}$.

In order to fit the GARMA-k model to the wave height and water level variations along the 356 SH coast, the model order k needs to be determined. We utilise the automatic model order 357 358 selection procedure of Leschinski and Sibbertsen (2019), which is based on iterative filtering and periodogram based tests for persistent cyclical behaviour in time series. The underlying 359 360 idea of the procedure is that the residuals from a correctly specified Gegenbauer model should exhibit no pole in the periodogram. If the periodogram of a filtered process is still 361 362 characterised by poles, the model order is not sufficient and needs to be increased. For their procedure, Leschinski and Sibbertsen (2019) propose a test for the null hypothesis of a 363 364 bounded spectral density against the alternative of at least one pole at an unknown frequency. This test is applied following every filtering iteration in order to determine whether the 365 366 residual process still contains significant persistent periodicity. After choosing the appropriate cyclical long-range dependence dynamics, the ARMA model orders p and q can be selected 367 using an information criterion when re-estimating the selected model specification via a 368 suitable Whittle likelihood procedure. As information criterion, we use the Bayesian 369 information criterion (BIC). 370

371 3.3.2 Step 2 - POT

Having modelled the dependency structure of the time series, the residuals in the step 1 can be regarded as *iid* data. Therefore, we can rely on the standard POT methodology to characterise the behaviour of the high-threshold exceedances in order to infer suitable thresholds for each time series.

For an unknown distribution function F of some random variable Y, we define the conditional distribution function of Y above some threshold u, i.e. the conditional excess distribution function as,

379
$$F_u = P(Y - u \le z \mid Y > u) = \frac{F(u+z) - F(u)}{1 - F(u)}, \text{ for } 0 \le z \le y_F - u$$
(5)

where, y_F represents the (finite or infinite) right end point of the underlying distribution *F* and z is the size of the excess above the threshold *u* (Leadbetter, 1991).

According to the Pickands-Balkema-De Haan theorem (Pickands, 1975; Balkema, 1974), the conditional excess distribution function F_u of a sequence of *iid* variables $\{Y_i\}_1^T$ converges for $u \to \infty$ to a generalised Pareto distribution (GPD) with cumulative distribution function (CDF).

386
$$G_{\xi,\sigma}(z) = \begin{cases} 1 - \left(1 - \xi \frac{z}{\sigma}\right)^{-1/\xi}, \ \xi \neq 0, \\ 1 - exp\left(-\frac{z}{\sigma}\right), \ \xi = 0, \end{cases}$$
(6)

387 where, ξ is the shape and $\sigma > 0$ the scale parameter

Further, the POT approach may be regarded through the lens of a Marked Point Process 388 389 (MPP), where an extreme event is defined by its associated occurrence time and mark size. The mark size corresponds to the size of the excess above the threshold previously denoted by 390 z. For a high enough threshold u and assuming that times and mark sizes are independent of 391 each other, the point process of extreme events converges to a marked Poisson process: the 392 extreme events occur at times of a homogeneous Poisson process, while the *iid* mark sizes 393 follow a GPD (Leadbetter, 1991). This process implies that inter-event times are characterised 394 by an *iid* exponential distribution. These limiting distributions can be exploited to obtain 395 396 diagnostic tools for checking the assumptions of the POT method (see e.g., Embrechts, 2012). For a technical introduction to the MPP representation as well as for the corresponding 397 398 maximum likelihood estimation is referred to Dissanayake et al. (2021b).

399 A central question in the POT framework is how to choose a suitable threshold *u*. The 400 standard approach is based on graphical diagnostics (see e.g., Coles, 2009): the mean residual life plot and parameter stability plots for the estimated GPD. If the GDP provides an 401 appropriate approximation to the excess distribution above some threshold u_0 , the mean 402 403 residual life plot should be roughly linear in u, while the estimates of the shape parameter ξ and the parameterised scale parameter $\sigma^* = \sigma - \xi u$ should be constant. However, for a large 404 405 number of time series, such a manual approach is infeasible. Therefore, we deploy an automatic threshold selection procedure. For a comprehensive review of existing automatic 406 407 threshold selection methods, it is referred to Scarrott and MacDonald (2012).

We follow the approach proposed by Thompson et al. (2009): a uniformly spaced grid of 408 409 potential threshold values between the median and the 99.5% empirical quantile is set. For each possible threshold, a GPD to the resulting exceedances and calculate the differences in 410 the parameterised scale parameters σ^* for neighbouring thresholds is fitted. We expect the 411 412 scale differences to be centred around zero and to follow an approximate normal distribution 413 if the GPD is a valid model. The sequence of scale differences is then treated as a sample of 414 normal random variables and a forward selection procedure is applied: increasing the 415 threshold increment by increment, we repeatedly perform Pearson's Chi-square test under the assumption of normality with mean zero. If the null hypothesis of normality is not rejected, 416 the current threshold is considered to be consistent with a GPD. However, if the null 417 hypothesis is rejected, we consider the next highest threshold and remove the current scale 418 difference from the sample. We follow the recommendation of Thompson et al. (2009) and 419 perform a size 0.2 Pearson normality tests. 420

The automatically determined thresholds values *u* correspond to quantiles in the *iid* GARMAresiduals from the step 1. In order to obtain interpretable thresholds in terms of the original data, computing the quantiles from the step 2 for the original time series is suggested. In this way, the final thresholds are established by considering all short-range, long-range and seasonal dependence, and can be rescaled to an EI with values in [0,1] by the min-max scaling.

427 3.4 Comparison parameters

The agreement between the overall wind climate from 2000 to 2019 (OW) and the yearlywind climates (YW) was estimated using the following parameters,

430 *Mean Relative difference* (μ) indicates mean change between overall (rs_o) and yearly (rs_y) 431 wind climates relative to the overall wind (Eq. 7).

432
$$\bar{\mu} = \frac{1}{n} \sum_{j=1}^{n} \mu_j = \frac{1}{n} \sum_{j=1}^{n} \frac{(rs_{j,y} - rs_{j,o})}{rs_{j,o}}$$
(7)

433 *Standard deviation* (σ) provides the deviation between overall and yearly wind climates with 434 respect to the mean relative difference (Eq. 8).

435
$$\sigma = \sqrt{\frac{1}{n} \sum_{j=1}^{n} (\mu_j - \bar{\mu})}$$
(8)

Root mean square difference (rmsd) estimates the standard deviation of the change between
overall and yearly wind climates (Eq. 9).

438
$$rmsd = \sqrt{\frac{1}{n}\sum_{j=1}^{n}(rs_{j,y} - rs_{j,o})^2}$$
 (9)

439 *Variance of overall (V_o) and yearly (V_y) wind climates* indicates the spread of wind climates
440 with respect to its mean value (Eq. 10).

441
$$V_o = \frac{1}{n} \sum_{j=1}^{n} (rs_{j,o} - \overline{rs_{j,o}})^2 \quad V_y = \frac{1}{n} \sum_{j=1}^{n} (rs_{j,y} - \overline{rs_{j,y}})^2$$
(10)

442 *Covariance (CV)* estimates the change of overall and yearly wind climates together. A
443 positive *CV* implies, both are positively related and have the same trend of variation (Eq. 11).

444
$$CV = \frac{1}{n} \sum_{j=1}^{n} (rs_{j,o} - \overline{rs_{j,o}}) (rs_{j,y} - \overline{rs_{j,y}})$$
(11)

Skill score (skill) measures the root mean square difference to the standard deviation. A *skill*of 1 indicates perfect agreement between overall and yearly wind climates, 0 means no
agreement, and negative values provide a negative trend (Eq. 12).

$$448 \qquad skill = 1 - \frac{rmsd^2}{\sigma^2} \tag{12}$$

449 *Coefficient of determination* (R^2) quantifies the fraction of variation of predicted water levels 450 or wave heights with respect to the measured data (Eq. 13).

451
$$R^{2} = \left[\frac{\sum_{r=1}^{s} (w_{md,r} - \overline{w_{md}})(w_{pd,r} - \overline{w_{pd}})}{\sqrt{(w_{md,r} - \overline{w_{md}})(w_{pd,r} - \overline{w_{pd}})}}\right]^{2}$$
(13)

where, *w* is water level or wave height. *md* indicates measured and *pd* model predicted values. *s* is the number of data points.

454 *Complex correlation coefficient* (r_c) is used to compare between two vector time series 455 (Kundu, 1975; von Storch and Zwiers, 1999; Bierstedt et al., 2015), and is hereon employed 456 to compare between DWD-measured and COSMO-reanalysis wind data at the four DWD 457 stations (see Figure 1). A two-dimensional vector time series can be represented by a complex 458 number, wn(t) = U(t) + i V(t). The complex correlation coefficient is defined as the complex 459 Pearson correlation between the two complex time series (Eq. 14 and 15).

460
$$r_c = \frac{\langle wn_1^*(t)wn_2(t)\rangle}{\sqrt{\langle wn_1^*(t)wn_1(t)\rangle}\sqrt{\langle wn_2^*(t)wn_2(t)\rangle}}$$
(14)

461
$$r_{c} = \frac{\langle U_{1}U_{2} + V_{1}V_{2} \rangle}{\sqrt{\langle U_{1}^{2} + V_{1}^{2} \rangle} \sqrt{\langle U_{2}^{2} + V_{2}^{2} \rangle}} + i \frac{\langle U_{1}V_{2} - U_{2}V_{1} \rangle}{\sqrt{\langle U_{1}^{2} + V_{1}^{2} \rangle} \sqrt{\langle U_{2}^{2} + V_{2}^{2} \rangle}}$$
(15)

where, *wn* is wind vector, * indicates the complex conjugate, *U* and *V* are real and imaginary
components, 1 and 2 denote two wind fields: DWD-measured and COSMO-reanalysis.

464 The agreement between DWD and COSMO wind time series can then be demonstrated by 465 change in average magnitude ($r_{c,mag}$: Eq. 16) and phase ($r_{c,phase}$: Eq. 17).

466
$$r_{c,mag} = \frac{\sqrt{\langle U_1 U_2 + V_1 V_2 \rangle^2 + \langle U_1 V_2 - U_2 V_1 \rangle^2}}{\sqrt{\langle U_1^2 + V_1^2 \rangle} \sqrt{\langle U_2^2 + V_2^2 \rangle}}$$
(16)

467
$$r_{c,phase} = tan^{-1} \left[\frac{\langle U_1 V_2 - U_2 V_1 \rangle}{\langle U_1 U_2 + V_1 V_2 \rangle} \right]$$
(17)

468 In addition to R^2 and *rmse* (similar in *rmsd*), *scatter index* and *relative bias* were used to 469 indicate the agreements between measured and predicted water levels and wave heights.

470 *Scatter index (SCI)* is a relative measure of the scatter between the measured and the predicted
471 water level or wave height. The error is normalised with the maximum of the root mean
472 square (*rms*) of the measured data or its absolute value of the mean (Eq. 18).

473
$$SCI = \frac{rms_{md-pd}}{\max(rms_{md}, |\langle md \rangle|)}$$
(18)

Relative Bias (RBI) estimates the relative bias of the predicted values, and it is normalised
similar to *SCI* (Eq. 19).

476
$$RBI = \frac{\langle md - pd \rangle}{\max(rms_{md}, |\langle md \rangle|)}$$
(19)

477 4. Results

478 4.1 Representative Wind Year (RWY)

479 The variation of the analysed statistical parameters between overall (OW) and yearly (from 01 September to the adjacent year 31 August) (YW) wind climates are shown in Figure 3 for the 480 481 summer to summer periods. All parameters denote that Schönhagen has a different pattern compared with the others. This could be due to the fact that the dominant wind at Schönhagen 482 approaches from land (i.e., SW-NW sector), while that of other stations from water (see 483 coastlines and wind roses at all stations in Figure A1). A positive mean relative difference 484 indicates that the YW is higher than the OW and vice versa, and a good agreement has a value 485 close to zero (a). Considering all four stations, the year 2016-2017 has the minimum value, 486 while the maximum negative and positive values correspond to the year 2005-2006 and 2006-487 488 2007 respectively. According to the standard deviation derived using the mean relative

489 difference, the first three stations show the minimum value at the year 2003-2004, while the value at Schönhagen is higher than those of others (b). All stations tend to show the maximum 490 deviation at the year 2009-2010. The minimum root mean square difference is shown with the 491 year 2003-2004 (c), while the maximum is in 2009-2010. Difference among stations appear to 492 be higher compared with the previous two parameters. The YWs of Darss have the highest 493 variance with respect to its OW and the lowest is found at Schönhagen (d). Furthermore, it 494 implies that occurrence of wind variability increases along the coast from Schöhagen to Darss 495 (see dash-lines). All stations have positive covariance indicating same trends of variations of 496 497 the YWs as in the OWs (e). The lower values of the stations are generally shown in year 2005-2006, and the higher in 2016-2017 than the other years. The highest skill score 498 499 considering all stations is shown in year 2016-2017 (f). In the year 2006-2007, the YW has a 500 strong disagreement with the OW. All stations tend to show lower values in the year 2005-501 2006 than others.

Each statistical parameter captured different properties of the YW and the OW resulting to different variations along the summer-summer periods. Considering all parameters and the variations at all stations, three YWs were defined as weak, representative and strong. The weak wind year (01 September 2005 - 31 August 2006) has generally low wind speeds compared with that of the overall, while the strong wind year (01 September 2006 - 31August 2007) has higher wind speeds than the overall. The RWY (01 September 2016 - 31August 2017) indicates similar characteristics as those in the overall wind climate.



- 510 Figure 3 Comparison of the entire 20-year wind climate from 2000 to 2019 (OW) and each summer –
- summer wind year (YW) using different statistical parameters: Mean relative difference (a), Standard
- 512 deviation (b), Root mean square difference (c), Variance of OW (dash-line) and YW (solid-line) (d),
- 513 Covariance between OW and YW (e) and Skill score (f). Defined weak, representative and strong
- 514 wind years are indicated by blue, gray and orange bars respectively.
- Results of the statistical analysis is summarised in Table 2. Accordingly, the RWY shows the
- 516 best agreement with the OW, and weak and strong wind years indicate considerable
- 517 deviations at all stations.

Station W Darss		(a). μ (-)			(b). Σ (-)		(c). Rmsd (m	/s)	(d). Variance (m ² /s ²)		(e). Covariance (m ² /s ²)			(f). Skill (-)			
otation	Weak	Repres.	Strong	Weak	Repres.	Strong	Weak	Repres.	Strong	Weak	Repres.	Strong	Weak	Repres.	Strong	Weak	Repres.	Strong
Darss	-0.09	-0.02	0.07	0.09	0.10	0.10	0.83	0.45	0.69	-1.54	3.71	4.51	2.27	3.36	3.70	0.46	0.89	0.77
Warnemünde	-0.08	-0.03	0.02	0.08	0.08	0.09	0.68	0.43	0.50	-0.81	0.09	1.07	1.58	2.08	2.54	0.59	0.88	0.86
Fehmarn	-0.07	0.00	-0.02	0.08	0.10	0.09	0.64	0.57	0.54	-0.47	0.51	0.90	1.34	1.77	1.99	0.62	0.77	0.82
Schönhagen	-0.04	-0.04	0.08	0.08	0.14	0.15	0.53	0.79	0.88	-0.20	1.24	-0.14	0.47	0.99	0.28	0.59	0.55	-0.07
Mean value	-0.07	-0.02	0.04	0.08	0.11	0.10	0.67	0.56	0.65	-0.76	1.39	1.58	1.41	2.05	2.13	0.57	0.77	0.60

Table 2 Estimated values of different statistical parameters for the selected Weak, Representative and 519 Strong wind years at the four wind measuring stations: Darss, Warnemünde, Fehmarn and Schönhagen 520 These defined three wind years (weak, representative and strong) were further compared with 521 522 the wind roses of the OW at the four stations (see Annex A1). Accordingly, the wind rose of 523 the weak year indicates low wind speeds, though the directions seem to fairly agree with the overall. Apparently, the strong wind year has higher wind speeds than the overall. The wind 524 rose of the RWY has the similar characteristics in wind speed as well as direction as in the 525 526 overall. Therefore, this wind period, RWY, was used to simulate the models and to monitor high spatiotemporal nearshore hydrodynamics. 527 For the model forcing, spatiotemporal wind fields (COSMO) were employed over the RWY. 528 Therefore, a comparison was first performed at the four wind stations between the measured 529

- 530 (DWD) and the derived wind data from the spatiotemporal wind fields. Magnitude and phase
- of the complex correlation coefficient indicate a good agreement of these two sources of wind
- vectors at the four measuring stations (Figure A2). Magnitudes of the stations have values
- around 0.95 and the phase difference is generally lower than 10° though Schönhagen shows
- the maximum difference of about 12° . Therefore, the COSMO wind data has the similar
- characteristics as in the measured DWD wind data, and can be used to drive the model
- 536 simulations.
- 537 4.2 Numerical Modelling
- 538 4.2.1 Model calibration and validation

Statistical agreements between the measured and the predicted water levels are shown in
Figure 4 (a - d) for the calibration simulations applying different bed roughness schemes. The
mean value of all 6 stations (red line) has the similar trend of variation to that of the station

LTKiel (blue line: as an exemplary location) (see all locations in Figure 2), though the values 542 are different. This implies that all stations responded to the bed roughness schemes in similar 543 pattern. Both R^2 (a) and *RMSE* (b) indicate the highest and the lowest values for the M2 544 model (Chézy: 50 m^{1/2}/s, see Table 1). SCI (c) decreases for the spatial constant roughness 545 schemes (M1-M5), and then increases for the last two spatial varying schemes (M6 and M7). 546 The range of change in all roughness schemes is well under 3%. RBI continuously decreases 547 from M1 to M7. The predictions of the M2 model result in about 9% while the lowest is about 548 6% (M7). Considering the variations of all statistical parameters, the model setting of M2 was 549 550 adopted as the calibrated parameters.



551

Figure 4 Statistical comparison of measured and calibrated water levels (a) – (d), and validation of
model predictions (e) – (h) for three independent periods (January 2016, September 2016 and January
2017). Blue line indicates values comparing measured and predicted water levels at LTKiel (see
location in Figure 2). Red line shows the mean statistical value of all 6 stations.

556 The model with the calibrated setting (M2) was then simulated for two independent periods

- and the predicted water levels were compared with the measured data (e h in Figure 4). R^2
- denotes high values in the winter months. *RMSE* slightly increases (maximum < 0.08 m) in
- the last two periods. As in R^2 , both SCI and RBI decrease in the winter months. These results
- suggest that the roughness scheme of M2 can reasonably be used to simulate hydrodynamics
- 561 within the RWY.

562 4.2.2 Nearshore hydrodynamics

Using the M2 roughness scheme (4.2.1), the nearshore hydrodynamics were simulated over
the RWY, and high spatiotemporal water levels and wave heights were extracted at the
monitoring stations for the EI analysis.

566 The predicted water levels over the RWY are shown in Figure 5 for the 6 stations with their

567 measured data. There is a good qualitative agreement between the measured and the predicted

- data. Specially, the occurrence of extreme events is well captured by the model. However, the
- simulated water levels appear to be slightly higher than the measured data in some months
- 570 (e.g., February, August in 2017). Quantitative analysis using R^2 resulted in values 0.87 0.90
- 571 for all locations (see Figure A3). The majority of the data points is found within the 20%
- 572 limits from the line of perfect agreement.



573

577 Predicted and measured wave height comparison showed a reasonable agreement at the three

- 578 buoy locations W1, W2 and W3 (Figure A4). At W1 (see location in Figure 2), the measured
- 579 wave heights seem to be higher than the model prediction. It should be noted that this buoy
- has overestimated wave heights during the analysis period (per. commu. with Uni. Hamburg-
- 581 *Harburg*). The qualitative agreement between the measured and the predicted wave heights is
- higher at W2 and W3 than W1. The R^2 analysis further indicates reasonable overall

<sup>Figure 5 Comparison of measured (red) and simulated (blue) water levels at the 6 measuring stations
(see Figure 2) during the RWY from 01 September 2016 to 31 August 2017: LTKalkgrund (a),
SchleimündeSP (b), LTKiel (c), Heiligenhafen (d), Marienleuchte (e) and Travemünde (f).</sup>

agreements, in which the values vary between 0.75 and 0.86 at the three buoy locations (W1:
0.84, W2: 0.75 and W3: 0.86).

585 4.3 Statistical analysis

This section describes the analysis of an appropriate EI for the extreme water level and wave 586 height variations along the SH coast using the proposed 2-Step-GARMA-POT. We 587 demonstrate the relevant steps in detail for the exemplary monitoring station 250 (Kiel Bay, 588 see Figure 8). The implementation of the analysis was performed using the R packages 589 longmemo by Maechler (2020), extRemes by Gilleland and Katz (2016) and TideHarmonics 590 by Stephenson (2016). We exclude station 194 from the following analysis since it is a fully 591 sheltered lagoon (Aschauhofer Lagune in Eckernförde Bay, Figure 8) resulting in constant 592 measurements of 5 m for all time stamps. 593

594

595 4.3.1 Step 1

The first step fits GARMA-k models to all 674 (excluded 194) monitored water level and 596 597 wave height series individually. When determining the number of factors k in the Gegenbauer 598 models, we found that the sequential procedure of Leschinski and Sibbertsen (2019) also finds 599 cyclic behaviour on high frequencies corresponding to periodic lengths of up to 20 minutes at 600 the monitoring stations close to marinas. It should be mentioned that high frequencies correspond to fast moving cycles in the data. Instead of only identifying tidal constituents, we 601 602 likely additionally capture contamination by ships, which pass the monitoring stations more or less regularly. For this reason, only sensible and interpretable frequencies for the GARMA-k 603 604 model are selected, i.e., frequencies below 0.5.

Exemplary estimation results for the GARMA-*k* model fitted to the monitored time series

recorded at the station 250 are reported in Table 3 (Figure A5). Since the monitoring station is

located in the Kiel Bay area, the sequential procedure of Leschinski and Sibbertsen (2019)

608 identifies a total number of 17 factors for the Gegenbauer model, of which only one frequency

- 609 is below 0.5. Hence, a GARMA-1 model is fitted with ARMA orders p = 1 and q = 2
- selected based on the BIC. The frequency identified as the cyclical long-range dependent

611 component corresponds to a cycle with a natural period of $\frac{2\pi}{0.0014} \approx 28$ days corresponding to

612 the lunar monthly tidal constituent.

- 613
- 614

Parameter	? 1	d_1	ϕ_1	θ_1	$ heta_2$
Value	0.0014	0.9911	0.9103	-1.7828	0.7849

Table 3 Estimation results for the GARMA-1 model fitted to the water level and wave height variations at the station 250 (see Figure 8).

A frequency coinciding with the lunar monthly tidal constituents is identified for every considered time series. For one monitoring station (station 353, see location in Figure 8), we note a lunar diurnal constituent with a period of $\frac{2\pi}{0.0436} \approx 23.9$ h, while a total of 193 monitoring stations are found to exhibit a principal lunar semidiurnal cycle with a period of $\frac{2\pi}{0.0843} \approx 12.42$ h. A small selection of monitoring stations appears to be subjected to additional short period cycles with periods of $\frac{2\pi}{0.1686} \approx 6.21$ h (6 stations) and $\frac{2\pi}{0.2529} \approx 4.14$ h (2 stations).

Figure 6 presents graphical residual diagnostics in order to assess whether all relevant cyclical 625 long-range dependence and additional short-term correlations in the water level and wave 626 627 heights time series at the station 250 are adequately captured by the fitted GARMA-1 model. The ACF of the residuals still exhibits a slight sinusoidal pattern indicating some leftover 628 629 cyclicality but constitutes a large improvement over the ACF of the original series. In the periodogram of the GARMA-1 residuals, there is no longer any indication of significant peaks 630 631 at any frequency. Thus, the GARMA-1 residuals resemble *iid* white noise to a reasonable extend in order to regard the assumptions of the POT model in the step 2 to be satisfied. 632





Figure 6 ACF and Periodogram of the GARMA-1 residuals for the station 250 (see location in Figure8).

638 4.3.2 Step 2

639 In the second step, we estimate individual POT models to the residuals of the GARMA-k

640 models fitted to the time series in the step 1. For that, first the automatic threshold selection

641 procedure of Thompson et al. (2009) for each residual process is performed and then a GPD

642 to the resulting threshold exceedances is fitted.

643

Parameter	и	ځ	Σ		
Value	0.0530	-0.4583	0.0330		

644

Table 4 Estimation results for the POT model fitted to the GARMA-1 residuals for the station 250
(see location in Figure 8). The threshold was chosen automatically using the procedure of Thompson
(2009).

Exemplary, Table 4 reports the estimation results for the GARMA-1 residuals for the station 250. The automatically chosen threshold of u = 0.053 corresponds to a 99.49% quantile,

such that 268 observations are considered extreme. Applying this quantile to the original data

returns a threshold of 5.98 m. Figure 7 illustrates which GARMA-1 residuals are considered

extreme based on the threshold u = 0.053. The threshold exceedances still exhibit a slight

clustering tendency, but the QQ plot (right in Figure 7) demonstrates that the inter-event times

654 lie within the confidence intervals of an exponential distribution (graphical diagnostics are

provided in Figure A5). In the QQ plot, the GPD residuals of the GARMA-POT model lie

within the confidence bands of an exponential distribution and the ACF no longer exhibits

any significant autocorrelation. From these observations, we can conclude that the fitted

- 658 GARMA-POT model satisfactorily characterised the seasonal long-range correlation and any
- 659 additional short-range dependence.
- 660
- 661



- Figure 7 Exceedances for GARMA-1 residuals with automatically chosen threshold u = 0.053 (left) and QQ plot of the inter-event times for the station 250 (right).
- 666 The derived EI for all monitoring stations are shown in Figure 8, where the automatically
- 667 chosen thresholds were translated to the corresponding quantiles in the original data and then
- rescaled to values in [0,1] using the min-max scaling. The smallest threshold (5.31 m) is
- recorded for the station 197 (Eckernförde Bay), which corresponds to an EI of 0, and the
- 670 largest threshold (7.35 m) for the station 597 (east of Fehmarn, see also Figure A6-e),
- 671 corresponding to an EI of 1. For clarity, zoomed-in results for the EI are provided for the
- regions (a) Schönhagen, (b) Stohl, (c) Schönberg, (d) Heiligenhafen, (e) Fehmarn, and (f)
- 673 Dahme in Figure A6a-f.



Figure 8 Derived EIs along the SH coast at the 675 monitoring stations. The colours correspond to the
magnitude of the EI. A value of 0 corresponds to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e.,
min-max scaling). The rectangles indicate the regions of (a) Schönhagen, (b) Stohl, (c) Schönberg, (d)
Heiligenhafen, (e) Fehmarn, and (f) Dahme (Figure 6a-f are referred to the zoom-out views). Numbers
provide the respective monitoring stations (for clarity 25-interval is marked). Source of background
map: Esri, HERE, Garmin, USGS, NGA.

681

The EIs of all monitoring stations along the SH coast are summarised in Table A1.

684 5. Discussion

685 This study developed an Exposure Index (EI) along the Schleswig-Holstein Baltic Sea (SH) 686 coast in Germany. The EI indicates the severity level of dynamics and hence the type of 687 physical characteristics of the coastal system. For example, a high EI implies the occurrence of severe dynamics leading to strong erosion/sedimentation and changes at the coast and vice 688 versa (Mason et al., 2018). Our analysis was carried out in three steps: defining a 689 representative wind year using the measured wind data (1), numerical simulations to develop 690 high spatiotemporal nearshore hydrodynamics (2) and statistically deriving the EI analysing 691 model predicted nearshore water level and wave height time series (3). The EI showed high 692 693 values for the coastal stretches with long fetch lengths, and low values for the areas inside 694 bays sheltering from the wind approach.

5.1 Representative Wind Year (RWY)

696 For the analysis of a general value of EI, it is a pre-requisite to use representative

697 hydrodynamic conditions along the SH coast. Such hydrodynamics can be expected during

698 the occurrence of representative forcing to long-term data. In the semi-enclosed Baltic Sea,

the hydrodynamics are governed by the occurrence of wind (LKN-SH, Bierstedt et al., 2015;

Soomere, 2023). Therefore, the RWY was first defined considering the occurrence of wind in

701 different directional sectors.

702 Definition of RWY was based on the measured wind data from four stations, which are

distributed along the entire SH coast. These data have a high temporal resolution (10

minutes), which are sufficient to capture the major fluctuations of forcing (Lorrai et al., 2011).

However, there could be errors of wind measurements at each station. Their effects on the

analysis were minimized by selecting only quality-control data from DWD

707 (<u>https://opendata.dwd.de</u>) and a long-term period in which short-term effects are normalised.

Span of the data set at each station covers different periods. Therefore, a common period of

20 years from 2000 to 2019 was hereon selected for the analysis. The dominant wind

directions at the stations are from the SW to NW sector (see Figure A1), while strong wind

still occurred from the NE to SE sector albeit with low probability. The local wind

characteristics depend on the orientation of the coastline. At Schönhagen, wind approached

over the land in the dominant sector, while it is over water at the other three stations.

Therefore, the wind characteristics of Schönhagen might be performed differently in the

analysis compared to the other locations (see Figure 3).

A wind year was classified from summer to summer of the adjacent years. The aims of this 716 717 classification were twofold in contrast to the selection of a calendar year. First is to avoid the separation of winter storm events that occurred at the end of December. Second, an 718 719 occurrence of strong and persistence winds in the winter months can be expected. Although individual storm events can be separately identified from December to January, they might be 720 721 related to a same meteorological event: storm cluster (e.g., Dissanayake et al., 2015). Our classification further complies with the wind statistics at the measuring stations, of which the 722 723 month of the lowest wind in each year from 2000 to 2019 is generally found in the period 724 from August – September (DWD).

725 The RWY was analysed considering the occurrence of wind speeds in different directional 726 sectors. For the analysis, we used wind speed as the main parameter because the higher the 727 wind speed the stronger the sea state leading to high dynamics (Bierstedt et al., 2015). In other words, high wind speeds with short fetch could results in strong sea state than the case of low 728 wind speed and long fetch (e.g., Hs = 2.1 m for wind speed 40 kt and fetch 20 km, and Hs =729 730 1.2 m for wind speed 20 kt and fetch 40 km for cases of constant wind direction lasting for 5 hours). Furthermore, for the same wind speed, the strength of dynamics at the coast might 731 vary depending on the existing fetch length (Soomere, 2023; Mason et al., 2018). Therefore, 732 we analysed the wind data with 5 m/s speed intervals (6 classes from 0 - 30 m/s) and in 10° 733 734 sectors (36 from 0° to 360°), which might be sufficient to capture the existing fetch lengths at any point along the coast. The comparison between overall wind climate and each wind year 735 was performed in terms of the occurrence of wind speed in each directional sector, which 736 provides a good basis to capture the availability of different fetch lengths depending on the 737 coastline orientations at the set locations along the SH coast. 738

The RWY was defined considering the performance of statistical values at the 4 stations 739 740 together (Figure 3). For all statistical parameters, Schönhagen showed different variations along the wind years than the other three stations. This could be due to the fact, that wind 741 approaches over the land at Schönhagen in contrast to the others as explained above. The best 742 value of an individual location might not necessarily be captured while considering all 743 744 stations together. For example, the lowest *rmsd* and the highest *Skill* at Warnemünde are 0.32 745 m/s and 0.93 respectively for the wind year 01 September 2003 - 31 August 2004, while they 746 are 0.32 m/s and 0.94 at Darss for the wind year 01 September 2012 – 31 August 2013. As the 4 stations are distributed along the entire coast of the model domain (see SH grid in Figure 1), 747 748 it is required to identify a value satisfying all stations. Then, a more realistic wind forcing on

the hydrodynamic computation can be expected. The selected RWY (01 September 2016 - 31

August 2017) has the optimal statistical values (e.g., *rmsd*: 0.56 m/s and *Skill*: 0.77), and that

is further convinced by comparing the wind roses, i.e., occurrence of wind speeds and

752 directions (see Figure A1).

5.2 Nearshore hydrodynamics

The Baltic Sea coast in general and the SH coast in particular has a narrow surf zone. For 754 example, in front of the Stohl coast, strong hydrodynamics are limited to a cross-shore stretch 755 of about 500 m extending up to about 5 m depth, and the alongshore littoral drift dominates 756 within the first 200 m therein (Dissanayake and Winter, 2023). These characteristics can be 757 expected along the entire SH coast based on the existence of a shallow nearshore area (see 758 Figure 2). Therefore, we selected 5 m depth to monitor the variations of water levels and 759 wave heights, which can be used to represent the severity of nearshore hydrodynamics 760 (Dissanayake et al., 2021a), by simulating a model nesting of two domains. Of which, the 761 762 fine-domain (SHC) has the highest cross-shore resolution of 75 m. Our sensitivity analyses showed that such resolution is sufficient to monitor hydrodynamics around 5 m water depth, 763 764 whereas a grid setup of higher resolution than SHC is highly recommended to predict hydrodynamics closer to the beach (e.g., Dissanayake and Winter, 2023). On the other hand, it 765 is not feasible to use a very fine grid setup covering the SH coast of about 400 km in length. 766 Therefore, the SHC model provides sufficiently accurate hydrodynamic parameters for our 767 analysis. 768

769 Analysis of an EI based on geometrical fetch lengths might not provide accurate values for a 770 complex coastal system. In early studies, exposure was derived based on solely the 771 geometrical fetch (e.g., Mason et al., 2018; Keddy, 1982). Depending on the existing nearshore morphological features and coastline orientations, there could be a significant 772 773 difference of fetch lengths of adjacent points along a coast. However, when high water levels and currents occur at a location due to exposing to long fetch, these hydrodynamics certainly 774 775 affect to the adjacent locations irrespective to their prevailing fetch lengths. This phenomenon cannot be taken into account while analysing exposure based on the geometrical fetches. The 776 777 SH coast is a complex system, which consists of different morphological features and coastline orientations (Averes et al., 2021). Therefore, the analysis using nearshore 778 779 hydrodynamics is very appropriate to develop more accurate EI values indicating the state of 780 the coast.

Predicted hydrodynamics could incur some limitations due to a number of reasons. Based on 781 the applied grid resolution (i.e., 75 m), the model bathymetry might not capture nearshore 782 topography accurately. As mentioned earlier, the objective of the present approach is to define 783 a general EI along the SH coast and to identify the erosion hotspots. At the identified coastal 784 stretches, it is required to repeat this analysis to develop accurate hydrodynamics applying 785 high resolution (~ 2 m) local models. Furthermore, there could be errors in the bathymetry 786 data from BSH and IOW, which are unavoidable. For the model forcing, water levels were 787 788 used from the large-scale model of Gräwe et al. (2015), which does not predict a 1:1 789 agreement with the measured water levels. Spatiotemporal wind fields from COSMO are reanalysis data, and they have magnitude and phase agreements > 0.9 and $<-10^{\circ}$ respectively 790 791 compared with the measured wind data (Figure A2). Moreover, assumptions and approximations of the numerical model itself can cause limitations of the predicted 792 793 hydrodynamics. With all these potential complications, our approach in predicting nearshore hydrodynamics provided however reasonable overall agreements with the measured data (R^2 : 794 795 0.87-0.90 for water levels and 0.75-0.86 for wave heights) enabling a reliable basis for the analysis of an accurate EI along the SH coast. 796

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5.3 Exposure Index (EI)

Our approach allows the extension of the POT method to dependent as well as cyclical data 799 (Dissanayake et al., 2021a,b). Usually the POT methodology is constructed for independent 800 data as any type of dependence leads to strong clustering of extremes, and so does also 801 cyclical behaviour of the data. A priori estimating and filtering possible cycles and 802 dependencies in the data allow the application of the standard POT method to identify 803 independent residuals. This allows finding thresholds in the residuals, which define quantiles 804 805 of extremes, which can then again be used to derive a valid threshold for the original data 806 avoiding the clustering of extremes (Scarrott and MacDonald, 2012).

Applying a priori estimation and filtering step might introduce an estimation error, which in
our situation may especially problematic, if the cyclical frequency is not estimated correctly.
However, Leschinski and Sibbertsen (2019) prove consistency of their method with the fastest
possible rate of convergence. Given the large amount of data available for the Baltic Sea the
estimation error is negligible in our situation.

- 812 The estimated EIs have high spatial resolution (i.e., 500 m apart) and show considerable
- 813 variability along the SH coast. There are low values in the bays and in the sheltered areas

along the coast, while high values are found along the exposed coastal stretches (see Figure 8, 814 Figure A6a-f and Table A1) indicating potential hotspots of erosion, which demand more 815 management intervention. However, it should be emphasized that there are no high values 816 along the entire exposed stretches as we set our hypothesis, in contrast to an analysis using 817 fetch lengths (Mason et al., 2018). Present analysis is based on the predicted water levels and 818 wave heights (~5 m depth) along the coast, which are driven by wind being the main driver of 819 820 hydrodynamics (Soomere, 2023), and vary depending on the nearshore morphological 821 features of this complex coast (Averes et al., 2021). Moreover, local water levels and wave 822 heights drive therein current pattern, and thus sediment transport and morphodynamics determining the state of the coast (Dissanayake et al., 2022). On the other hand, a definition of 823 824 the EI based on fetch lengths (e.g., Mason et al., 2018) does not necessarily capture the status of local coasts. In contrast, the present novel definition using high spatiotemporal nearshore 825 826 hydrodynamics indicates high resolution spatial characteristics of local coasts, and therefore could be highly variable along a coast even with a long fetch. This approach can be further 827 828 improved by repeating the analysis at the identified erosion hotspots using high spatial resolution model domains, in which the nearshore morphology is well represented, and so 829 830 does the nearshore hydrodynamics (e.g., Dissanayake and Winter, 2023). Furthermore, the developed 3-step method (RWY, prediction of hydrodynamics and definition of EI) can be 831 easily transferable for any coastal system, and to investigate the alongshore variability of the 832 833 general coastal state.

834

835 6. Conclusions

The Schleswig-Holstein Baltic Sea (SH) coast is a complex coastal system consisting of 836 different morphological features and coastline orientations enabling different exposures to 837 838 winds and waves. Though the dominant wind approach is from SW to NW, extreme events occur from N to E being exposed to long fetches causing strong local dynamics, which vary 839 840 depending on the nearshore morphology. Therefore, an exposure index (EI), which is derived based on the local hydrodynamics, can be used as a proxy to demonstrate the susceptibility of 841 this coast to marine forcing (e.g., identifying potential erosion hotspots). We employed a 3-842 step approach to define high resolution (500 m apart along the entire SH coast of ~400 km) 843 and more accurate EIs: defining a representative wind year (RWY), predicting high 844 spatiotemporal nearshore (~5 m depth) hydrodynamics by numerical modelling and 845 846 statistically deriving EI using predicted water levels and wave heights over RWY.

To investigate under the general characteristics of forcing, it is a pre-requisite to contemplate 847 a representative period to long-term data. In the Baltic Sea, wind is the main driver of marine 848 forcing. Therefore, the RWY was defined by analysing the measured wind data from 2000 to 849 2019 at 4 stations, which are distributed along the entire area of interest. This analysis focused 850 on the occurrence of wind speeds in 36 directional sectors, as the wind speed is important for 851 852 the sea state rather than fetch for the given direction. Based on the long-term wind statistics at the measuring stations, a wind year was defined from summer to summer of adjacent years, 853 854 which accommodates winter storms in a single year. The identified RWY (01.09.2016 – 855 31.08.2017) showed a good resemble to the entire wind climate of 20 years (e.g., rmsd: 0.56 m/s and Skill: 0.77). High spatiotemporal hydrodynamics for the SH coast were predicted 856 857 using a model nesting of 2 domains (highest resolution ~75 m) in Delft3D. The model setup was initially calibrated, and validated for two independent periods tuning the bed roughness 858 859 schemes. Predicted nearshore hydrodynamics over the RWY provided reasonable agreements with the measured data (R^2 : 0.87 – 0.90 for water levels and 0.75 – 0.86 for wave heights). In 860 861 a two-step procedure, we developed EIs based on a generalization of the classical POT model for cyclical and dependent data. Estimating and filtering the cycles and dependencies allow to 862 863 apply the standard POT methods to the residuals and to identify thresholds, first for the residuals and then for the original data, which avoid strong clustering of extremes. 864

The exposed areas display high EIs (e.g., 1 at the east of Fehmarn, Figure A6-e), while 865 sheltered areas have low values (e.g., 0 at Eckernförde Bay, Figure 8). The expose of the coast 866 to strong dynamics are therefore manifested by EIs, which can be used to identify the 867 potential erosion hotspots requiring more management interventions. In contrast to the 868 previous definitions using fetch lengths, our approach showed high variability of the EI even 869 870 for the exposed coastal stretches. Local hydrodynamics depend on the nearshore morphology, and thus variable EI though exposing to long fetches. Therefore, the present definition of EI 871 872 provides a more accurate interpretation of the susceptibility of a coast to marine forcing. The credibility of this approach certainly increases by comparing the EIs with long-term 873 874 morphological changes along the SH coast, and repeating the analysis at the identified erosion hotspots using high spatial resolution model domains. The developed 3-step method can be 875 876 easily transferable for any coastal system to define an EI, and to investigate the alongshore variability of the coastal status, which might indicate the vulnerable coastal stretches. 877

879 Data availability statement

880 This study used different open source data and modelling tools, which are referred to the

respective sources in the text: Bathymetry data from Federal Maritime and Hydrography

- 882 Agency (BSH) (<u>https://www.geoseaportal.de</u>) and Baltic Sea Research Warnemünde (IOW)
- 883 (<u>https://www.io-warnemuende.de/topography-of-the-baltic-sea.html</u>), coastline from European
- 884 Environmental Agency (EEA) (<u>https://www.eea.europa.eu</u>),Wind data from the German
- 885 Weather Service (DWD) (<u>https://opendata.dwd.de</u>), and the Delft3D modelling tool from

886 Deltares (<u>delft3d - Revision 142633: / (deltares.nl</u>)).

887

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1034 Annex



Figure A1: Comparison of wind roses from measured data (Column I, a. Schönhagen, b. Fehmarn, c.
Warnemünde and d. Darss) and defined wind years, Weak (Column II), Representative (Column III)

- and Strong (Column IV). Black line indicates the orientation of the coastline at the measuring station.



Figure A2: Statistical comparison between measured wind data at 4 stations and those from spatial
 analysed COSMO wind data from DWD (<u>https://opendata.dwd.de</u>) showing the variation during the

1045 representative year, 01 September 2016 to 31 August 2017.

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Figure A3: Comparison of measured and simulated water levels at 6 stations (see Figure 2). Red line
indicates the best fit and the density of data points is shown by colours. Blue shadow area shows the

1051 20% of deviation from the perfect agreement between measured and predicted water levels.





Figure A4: Comparison of measured and simulated wave heights at 3 stations (see locations in Figure 2). (a) – (c): qualitative comparison, and (d) – (f): statistical comparison. Dash line indicates perfect agreement, and solid line shows the best fit between measured and predicted wave heights. Colour show the density of data points.



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Figure A5: Unit exponential QQ-plot (left) and ACF of GPD residuals (middle and right) of theGARMA-POT for the station 250 (see Figure 8).

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Figure A6-a Estimated EI within the selected zoom-out window: Schönhagen (see (a) in Figure 8).
The colours correspond to the value of the EI at the specific monitoring station. A value of 0

corresponds to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e., min-max scaling). Source of
background map: SDFE, Esri, HERE, Garmin, USGS, NGA.



Figure A6-b Estimated EI within the selected zoom-out window: Stohl (see (b) in Figure 8). The
colours correspond to the value of the EI at the specific monitoring station. A value of 0 corresponds
to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e., min-max scaling). Source of background map:

1076 SDFE, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA.





Figure A6-c Estimated EI within the selected zoom-out window: Schönberg (see (c) in Figure 8). The
colours correspond to the value of the EI at the specific monitoring station. A value of 0 corresponds
to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e., min-max scaling). Source of background map:
SDFE, Esri, HERE, Garmin, USGS, NGA.





1086 Figure A6-d Estimated EI within the selected zoom-out window: Heiligenhafen (see (d) in Figure 8).

1087 The colours correspond to the value of the EI at the specific monitoring station. A value of 0

1088 corresponds to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e., min-max scaling). Source of

1089 background map: SDFE, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA.

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Figure A6-e Estimated EI within the selected zoom-out window: Fehmarn (see (e) in Figure 8). The
colours correspond to the value of the EI at the specific monitoring station. A value of 0 corresponds
to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e., min-max scaling). Source of background map:
SDFE, Esri, HERE, Garmin, USGS, NGA.



Figure A6-f Estimated EI within the selected zoom-out window: Dahme (see (f) in Figure 8). Thecolours correspond to the value of the EI at the specific monitoring station. A value of 0 corresponds

to a threshold of 5.31 m and a value of 1 to 7.35 m (i.e., min-max scaling). Source of background map:
Esri, HERE, Garmin, USGS, NGA.

| ID | East (m)
 | North (m)
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 | 5.83
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6.01 | 0.25 | | 102
103
104 | 563541
563483
563588
 | 6066325
6065628
6065427
 | 6.82
6.74
6.80 | 0.74
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| 5
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7 | 528170
527882
528113
 | 6072308
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6072269
 | 5.89
5.77
5.90 | 0.28 | | 105
106 | 563721
563935
564191
 | 6065096
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- 1104 Table A1: Location ID, spatial coordinates East and North, defined threshold value and the EI along
- the SH coast. For clarity, different regions are marked, which are indicated in Figure 8.