Appendix A: Available measurements of waves

Location and list of stations with measurements covering the year 2019.

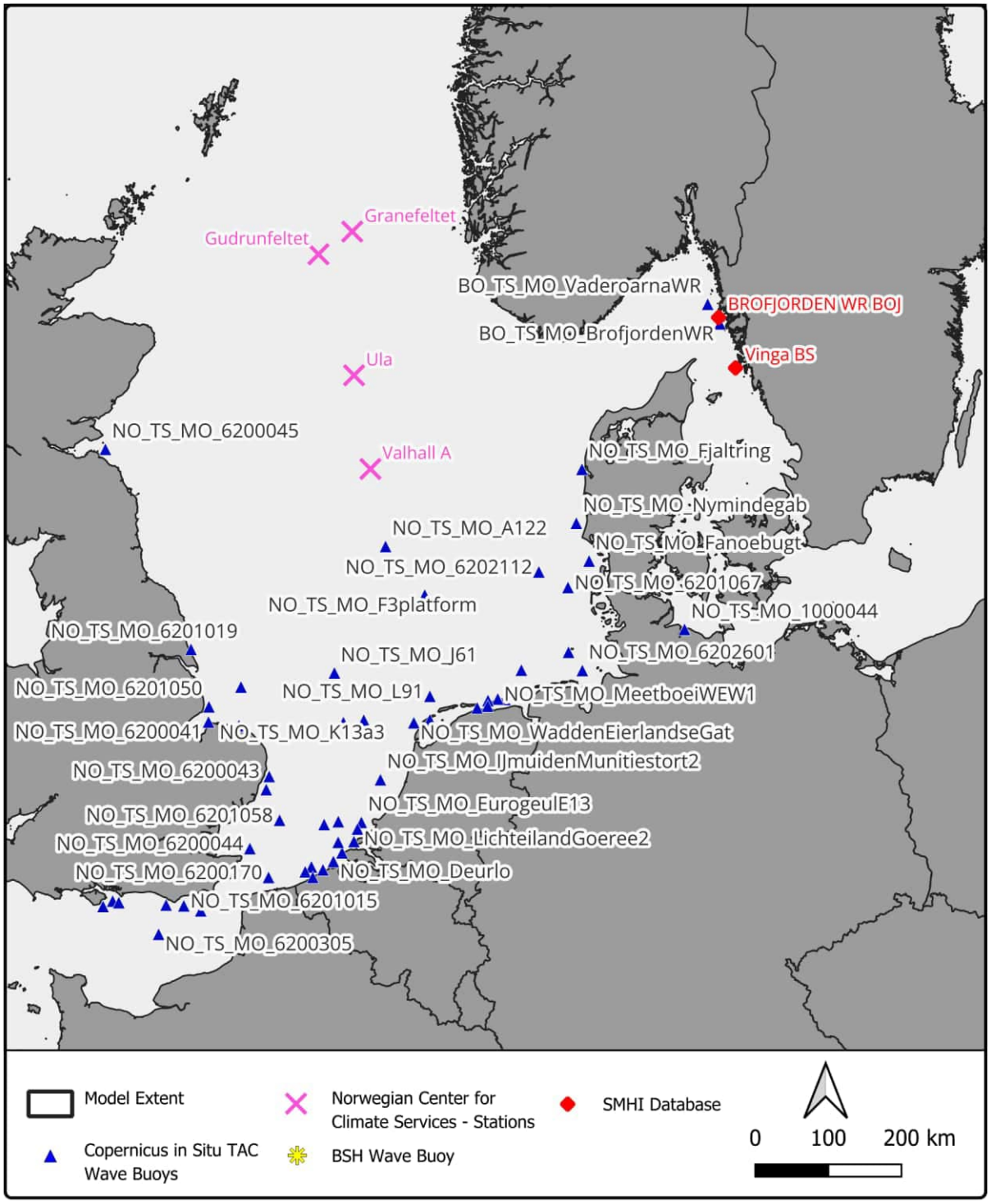
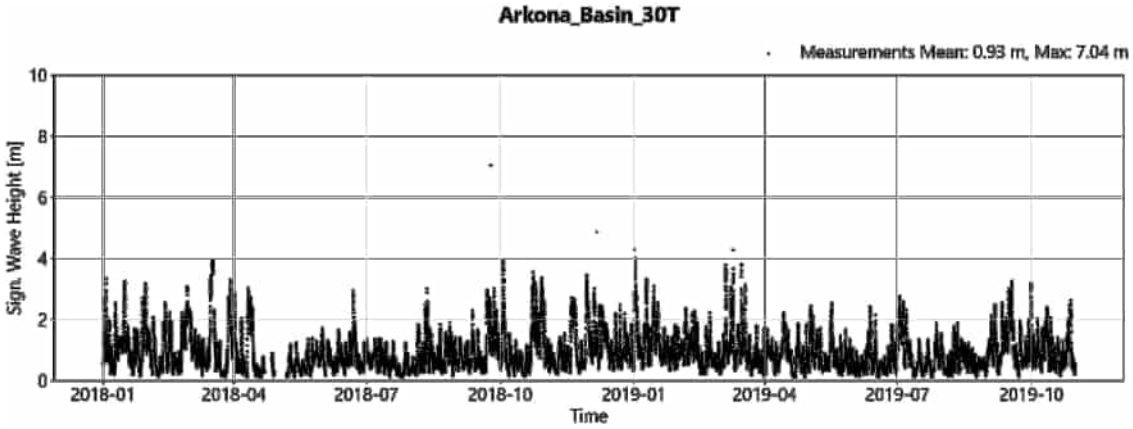


Figure 9.1: Location of the retrieved wave measurements for 2019.

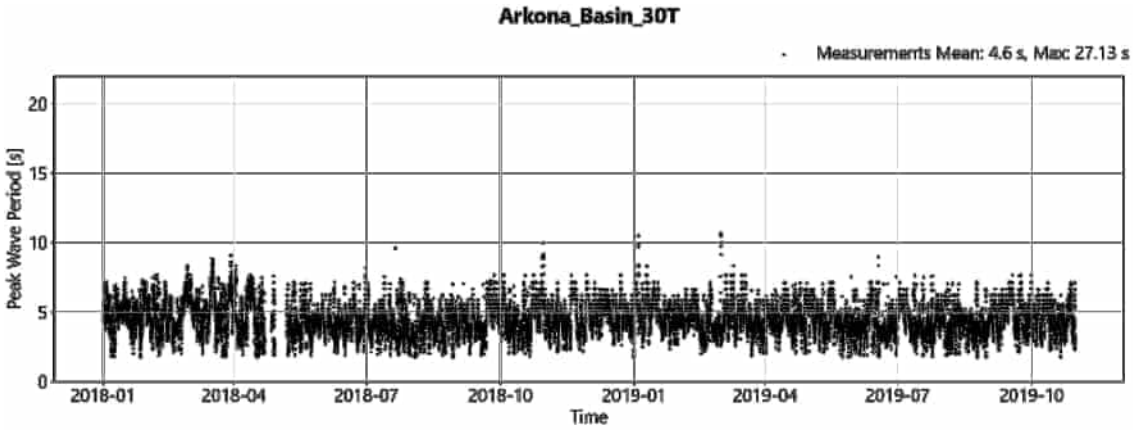
Station ID	Longitude [deg]	Latitude [deg]	Time	Coverage (%)
BO_TS_MO_BrofjordenWR	11.225	58.251	UTM0	100
BO_TS_MO_VaderoarnaWR	10.953	58.496	UTM0	86
NO_TS_MO_1000044	10.267	54.500	UTM0	97
NO_TS_MO_6200041	0.475	53.058	UTM0	100
NO_TS_MO_6200042	1.100	53.058	UTM0	100
NO_TS_MO_6200043	1.784	52.312	UTM0	100
NO_TS_MO_6200044	1.579	51.570	UTM0	93
NO_TS_MO_6200045	-2.504	56.188	UTM0	100
NO_TS_MO_6200170	2.000	51.240	UTM0	90
NO_TS_MO_6200288	0.754	50.746	UTM0	100
NO_TS_MO_6200289	1.054	53.532	UTM0	100
NO_TS_MO_6200305	0.000	50.400	UTM0	100
NO_TS_MO_6201010	-1.129	50.650	UTM0	100
NO_TS_MO_6201011	-0.959	50.732	UTM0	100
NO_TS_MO_6201012	-0.839	50.723	UTM0	100
NO_TS_MO_6201015	0.417	50.783	UTM0	100
NO_TS_MO_6201019	-0.067	53.917	UTM0	100
NO_TS_MO_6201050	0.447	53.245	UTM0	100
NO_TS_MO_6201058	2.109	51.953	UTM0	100
NO_TS_MO_6201059	1.817	52.476	UTM0	100
NO_TS_MO_6201067	7.783	55.017	UTM0	85
NO_TS_MO_6201068	6.839	53.985	UTM0	80
NO_TS_MO_6202112	7.150	55.200	UTM0	44
NO_TS_MO_6202600	7.818	54.219	UTM0	93
NO_TS_MO_6202601	8.114	53.996	UTM0	97
NO_TS_MO_A122	3.817	55.418	UTM0	100
NO_TS_MO_Akkaert	2.819	51.416	UTM0	100
NO_TS_MO_AWG	5.950	53.500	UTM0	100
NO_TS_MO_Deurlo	3.242	51.504	UTM0	100
NO_TS_MO_DomburgerRassen	3.399	51.620	UTM0	100
NO_TS_MO_EurogeulDWE	3.000	51.948	UTM0	100
NO_TS_MO_EurogeulE13	3.737	52.010	UTM0	100
NO_TS_MO_Europlatform3	3.276	51.999	UTM0	100
NO_TS_MO_F3platform	4.727	54.854	UTM0	96
NO_TS_MO_IJmuidenMunitiestort2	4.058	52.550	UTM0	100
NO_TS_MO_J61	2.950	53.817	UTM0	100
NO_TS_MO_K13a3	3.220	53.218	UTM0	100
NO_TS_MO_K141	3.633	53.267	UTM0	96
NO_TS_MO_Kwintebank	2.706	51.349	UTM0	100
NO_TS_MO_L91	4.961	53.614	UTM0	100
NO_TS_MO_LichteilandGoeree2	3.670	51.926	UTM0	96
NO_TS_MO_MeetboeiWEO1	6.518	53.617	UTM0	96
NO_TS_MO_MeetboeiWEW1	6.368	53.620	UTM0	96
NO_TS_MO_SchiermonnikoogNoord	6.167	53.596	UTM0	96

Station ID	Longitude [deg]	Latitude [deg]	Time	Coverage (%)
NO_TS_MO_SchiermonnikoogWestgat	6.165	53.529	UTM0	100
NO_TS_MO_Schouwenbank2	3.306	51.745	UTM0	100
NO_TS_MO_StortemelkBoei	4.989	53.323	UTM0	100
NO_TS_MO_WaddenEierlandseGat	4.662	53.277	UTM0	100
BROFJORDEN WR BOJ	11.5734	57.6234	UTM2	100
Vinga BS	11.2229	58.2513	UTM2	44
Arkona Basin	13.859	54.884	UTM1	N/A
Valhall A	3.393	56.278	UTM1	100
Ula	2.846	57.408	UTM1	100
Granefeltet	2.487	59.165	UTM1	100
Gudrunfeltet	1.744	58.845	UTM1	100

Appendix B: Time-series of significant wave heights



Arkona_Basin_30T_Hs: TS_plot_Arkona_Basin_30T_Arkona_Basin_30T



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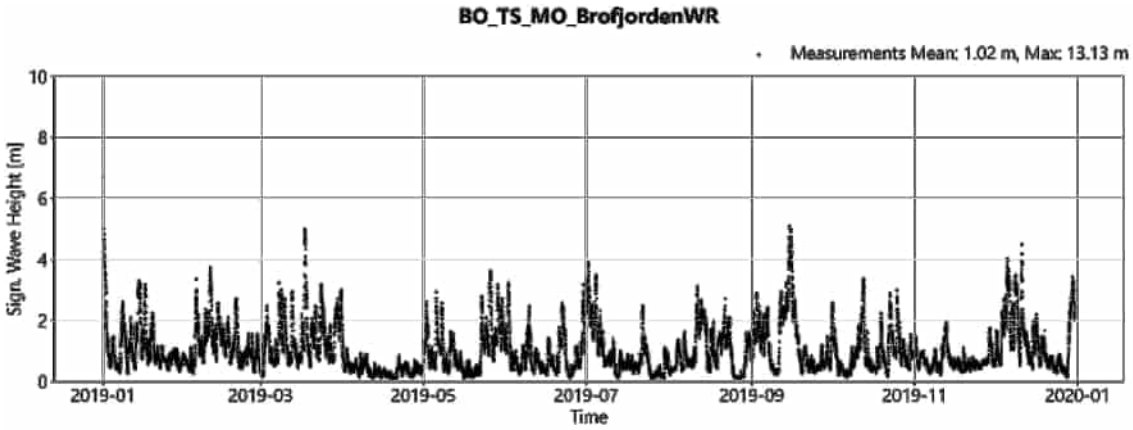

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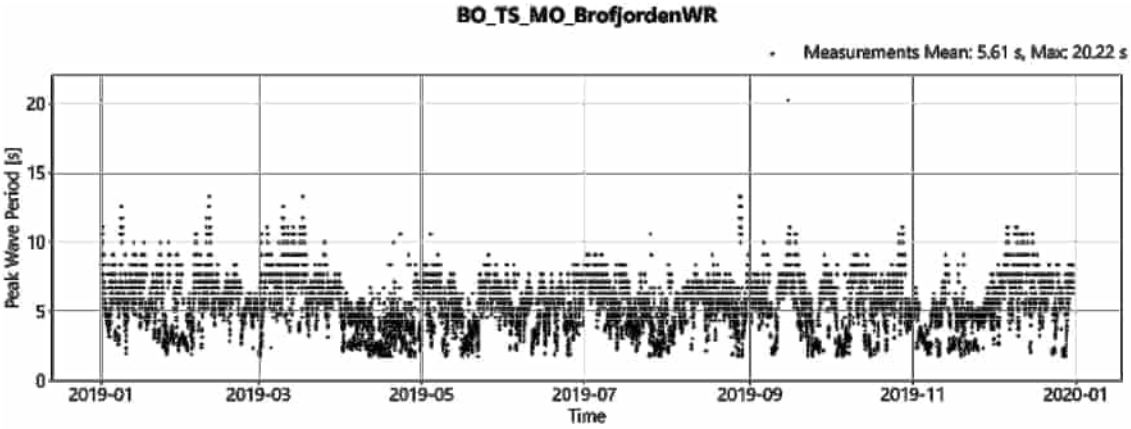
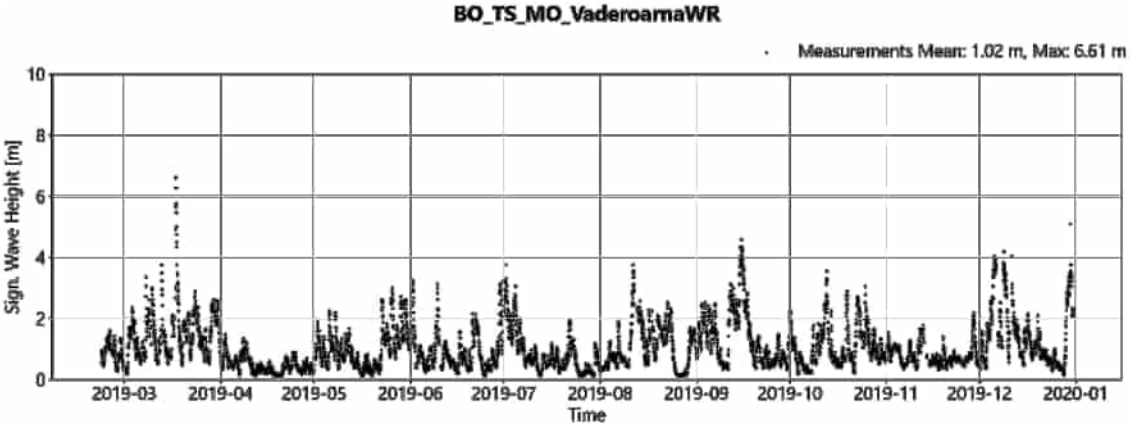
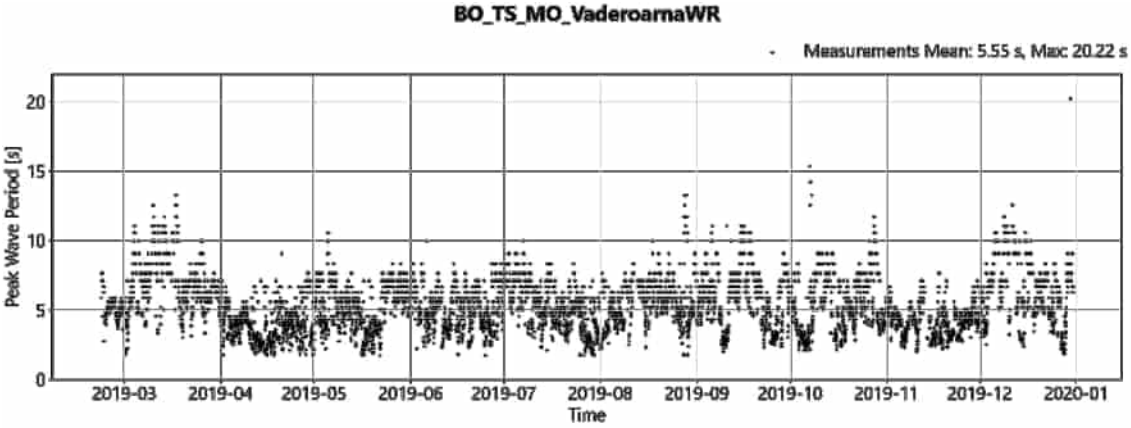


BO_TS_MO_BrofjordenWR_Tp: TS_plot_BO_TS_MO_BrofjordenWR_BO_TS_MO_BrofjordenWR



BO_TS_MO_VaderoarnaWR_Hs: TS_plot_BO_TS_MO_VaderoarnaWR_BO_TS_MO_VaderoarnaWR



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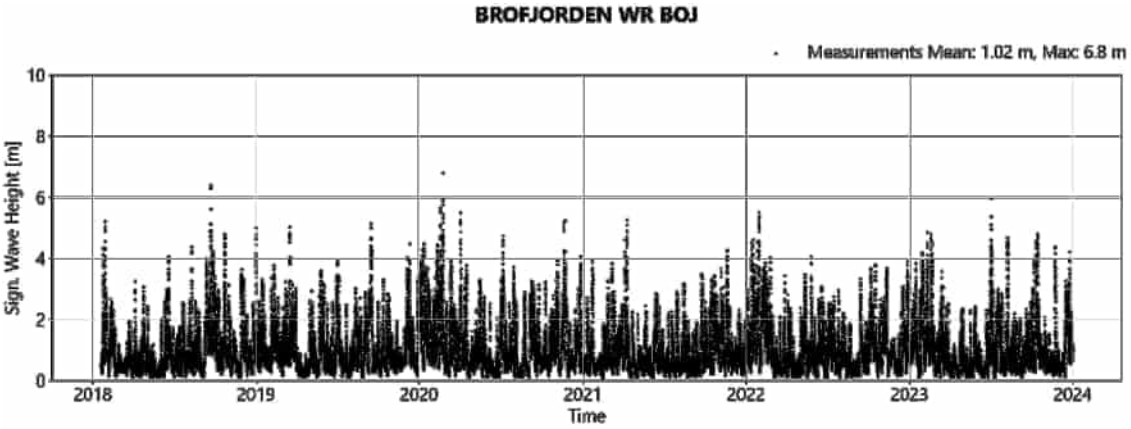
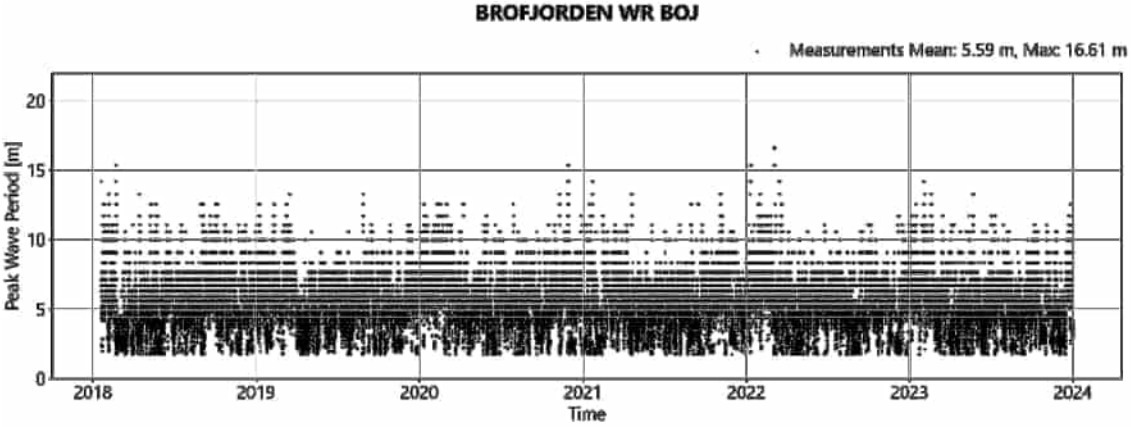


BROFJORDEN WR BOJ_Hs: TS_plot_BROFJORDEN WR BOJ_BROFJORDEN WR BOJ



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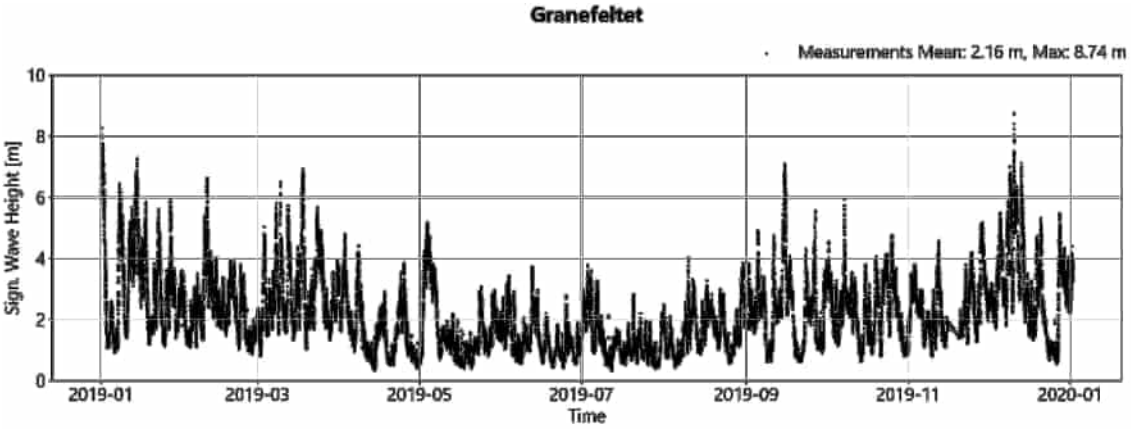
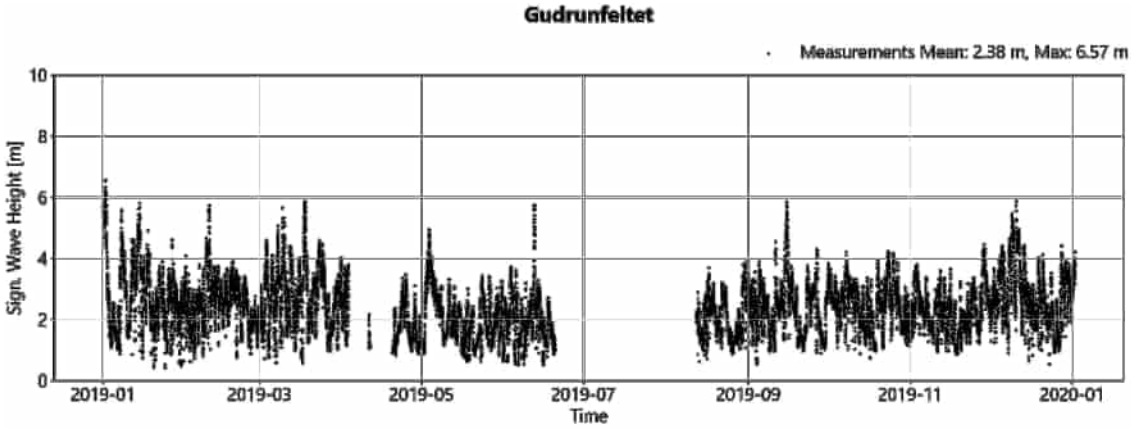
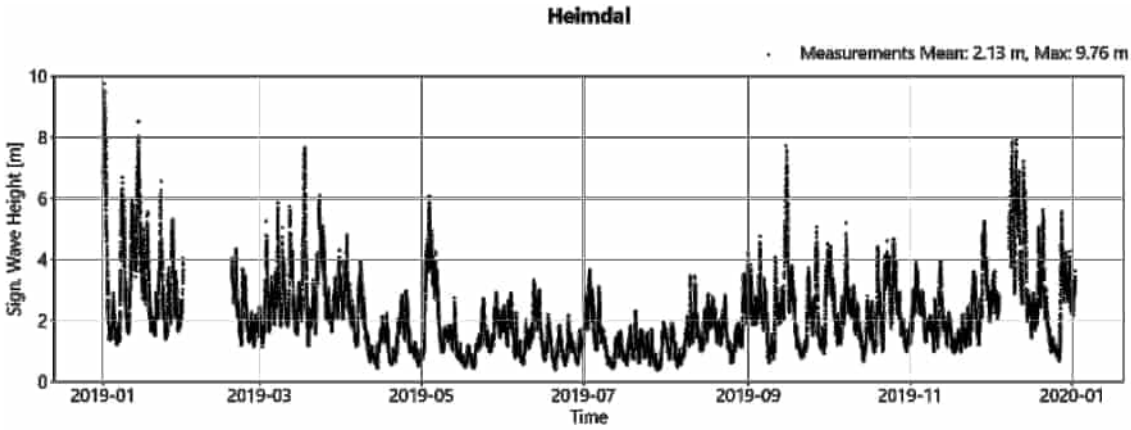


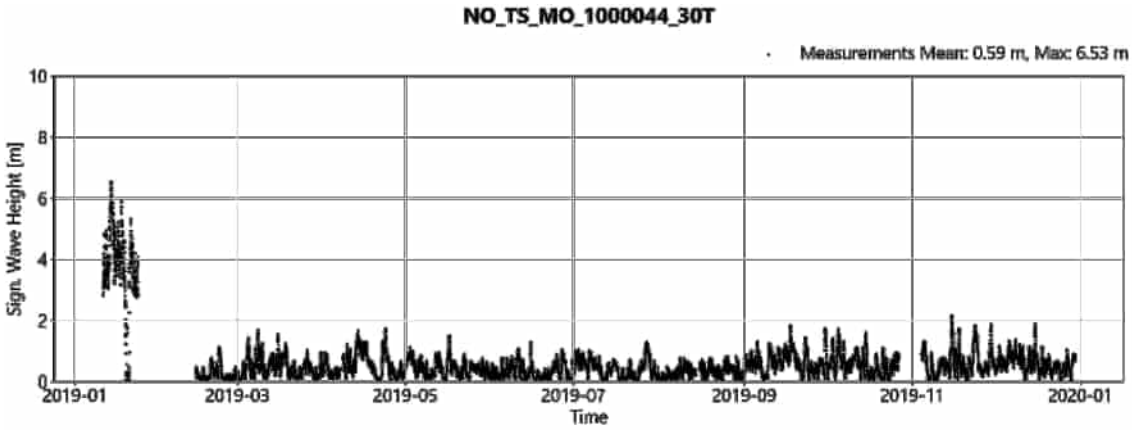
Granefeltet_Hs: TS_plot_Granefeltet_Granefeltet



Gudrunfeltet_Hs: TS_plot_Gudrunfeltet_Gudrunfeltet



Heimdal_Hs: TS_plot_Heimdal_Heimdal



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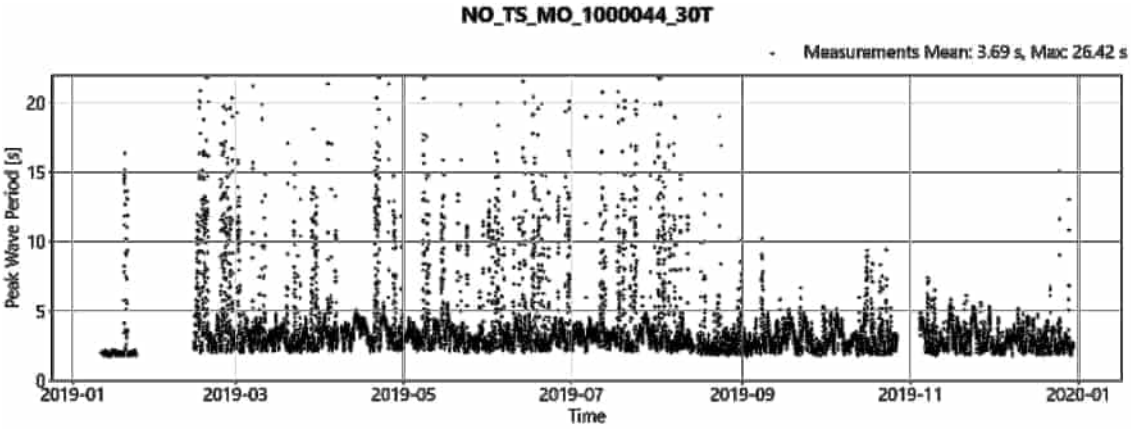

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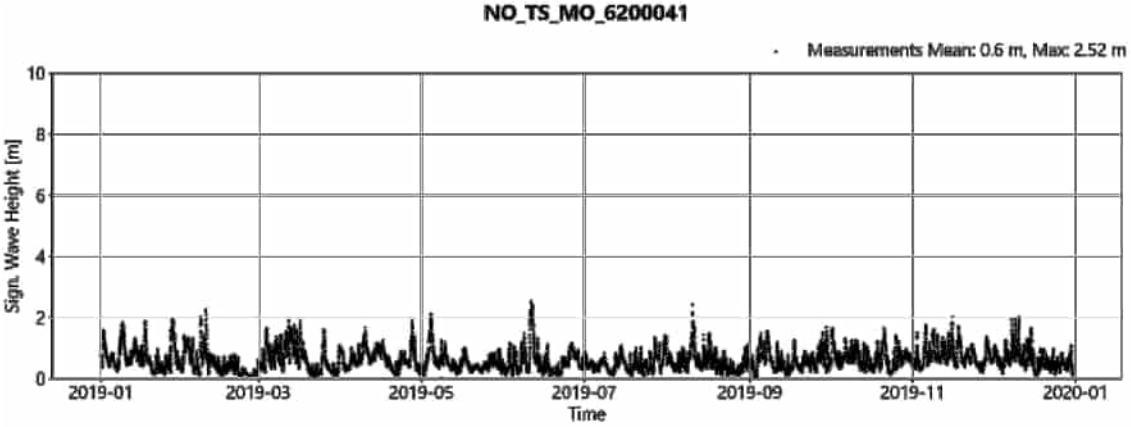

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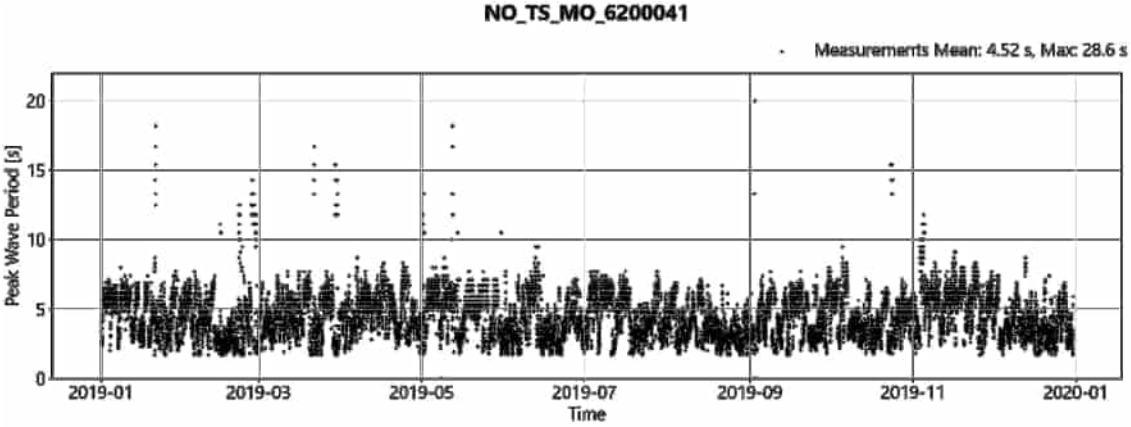

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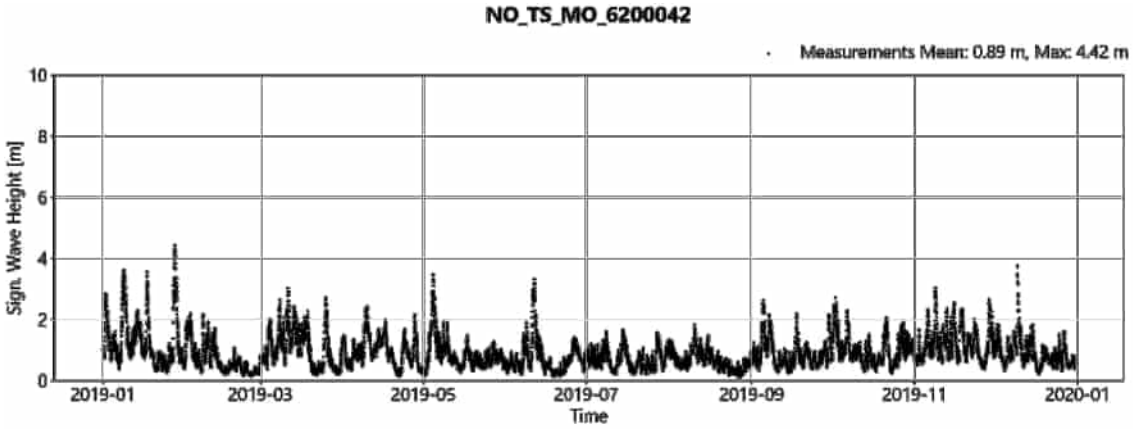

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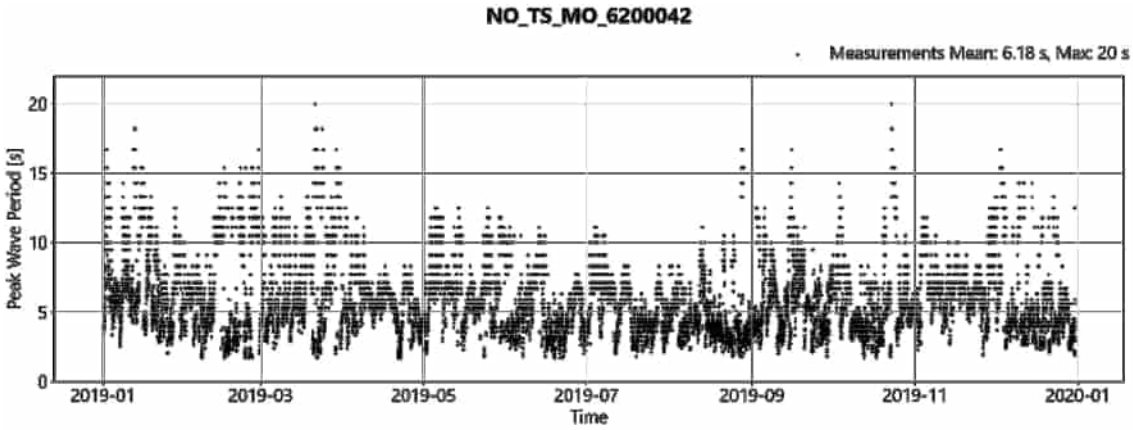

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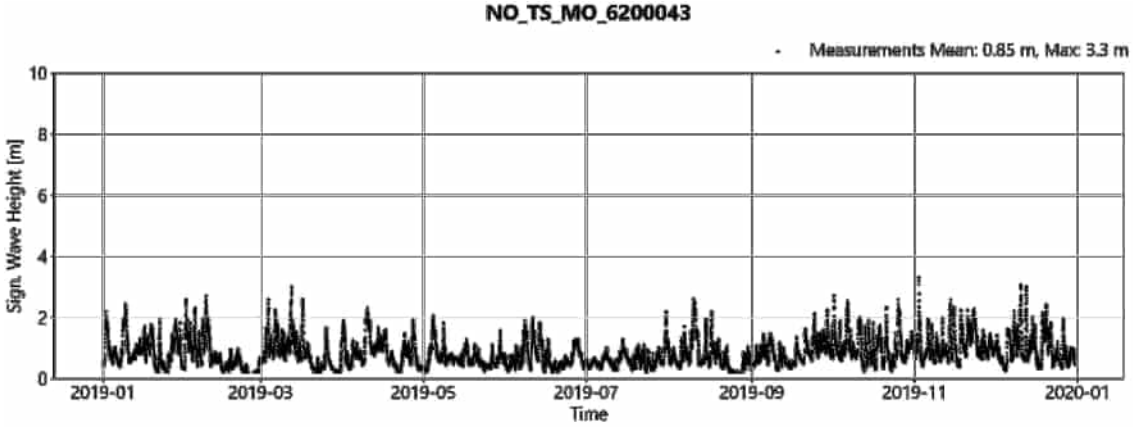

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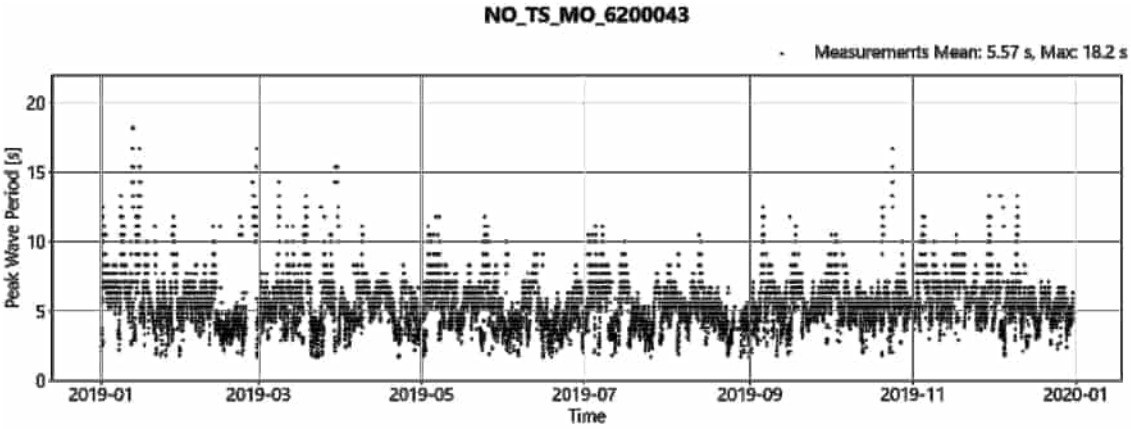

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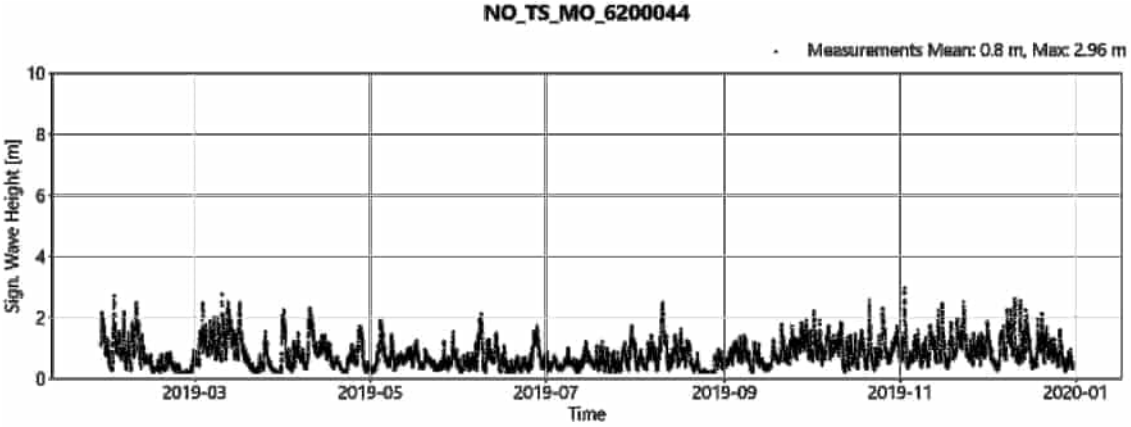

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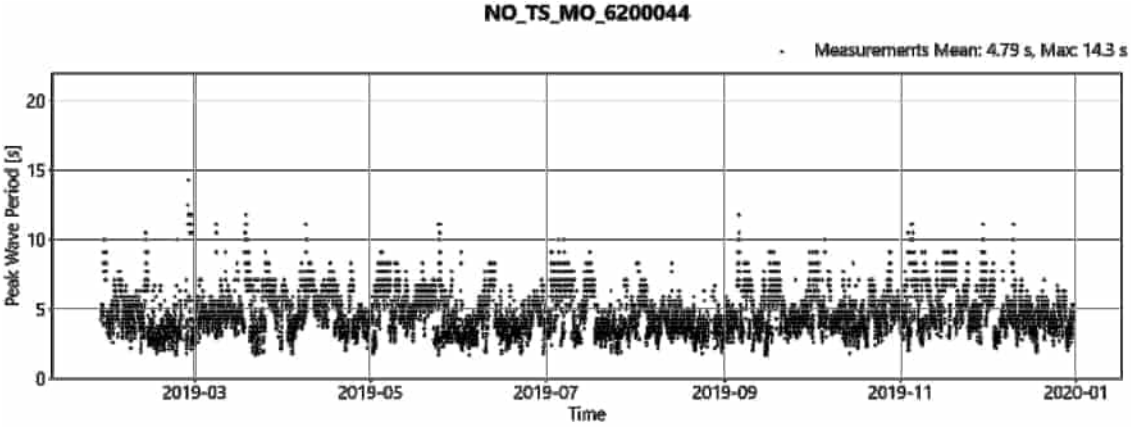

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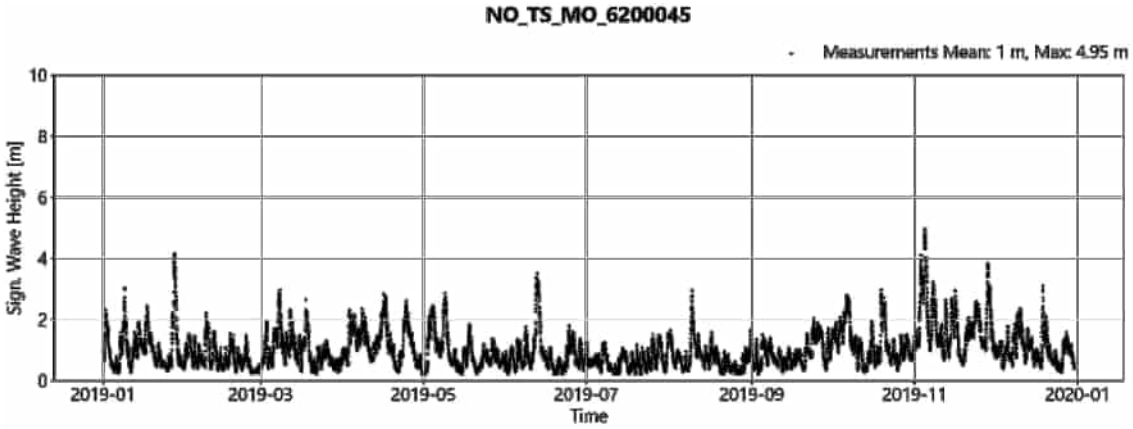

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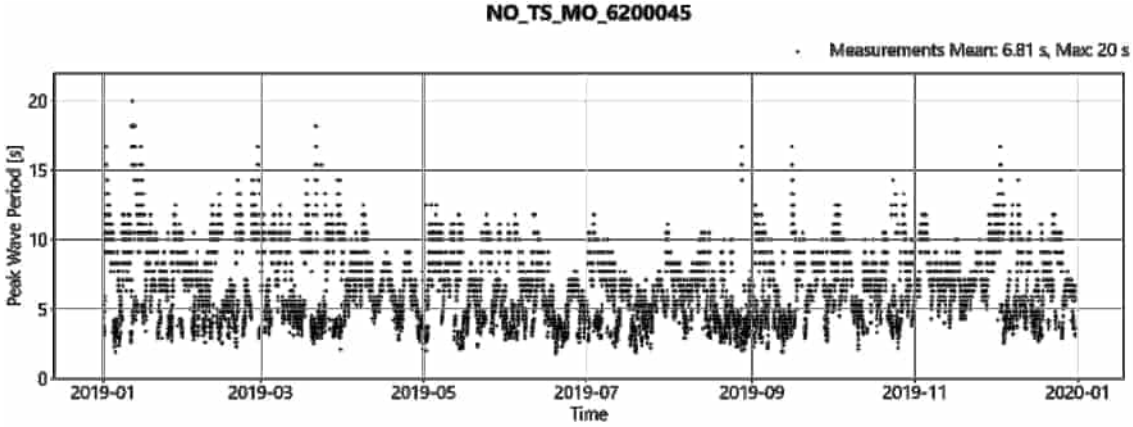

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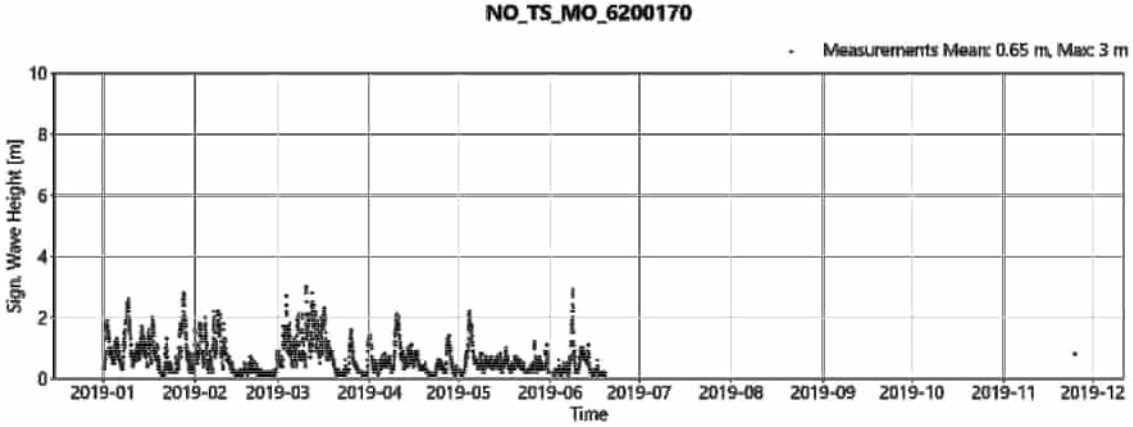

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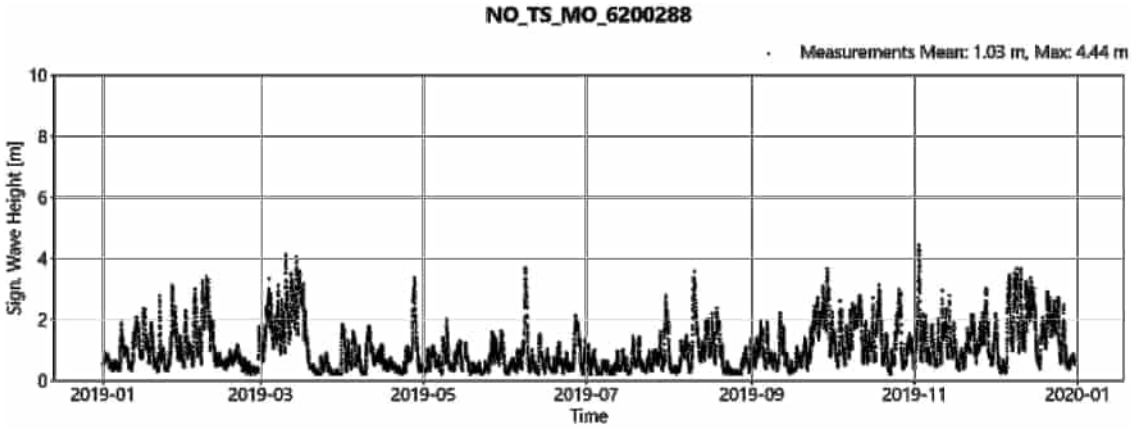

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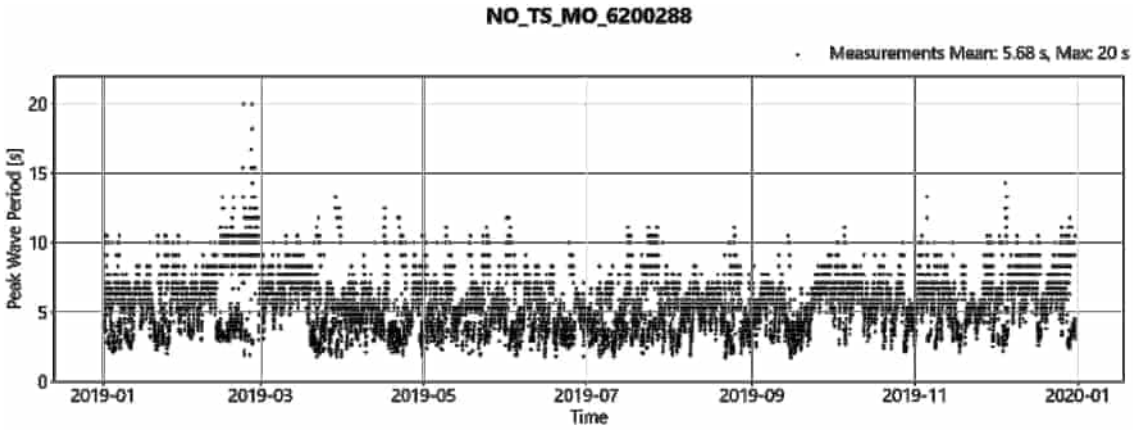

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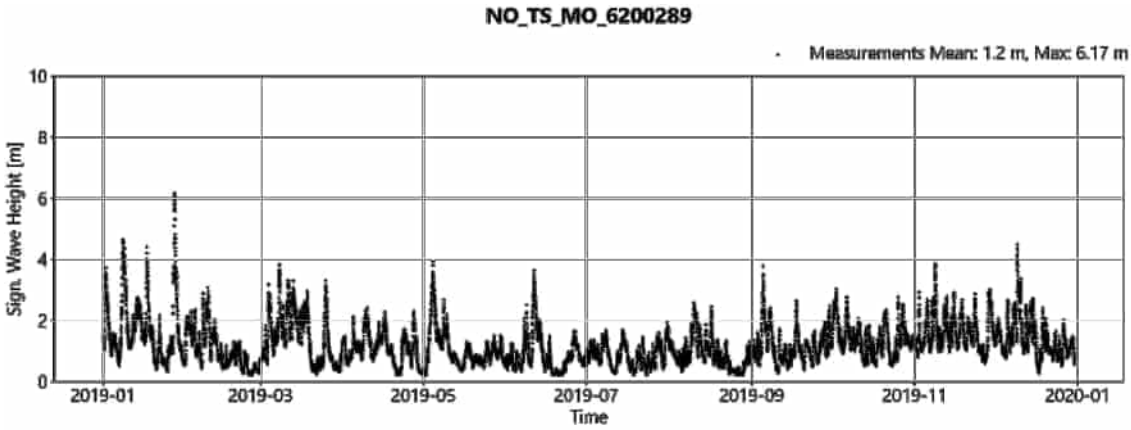

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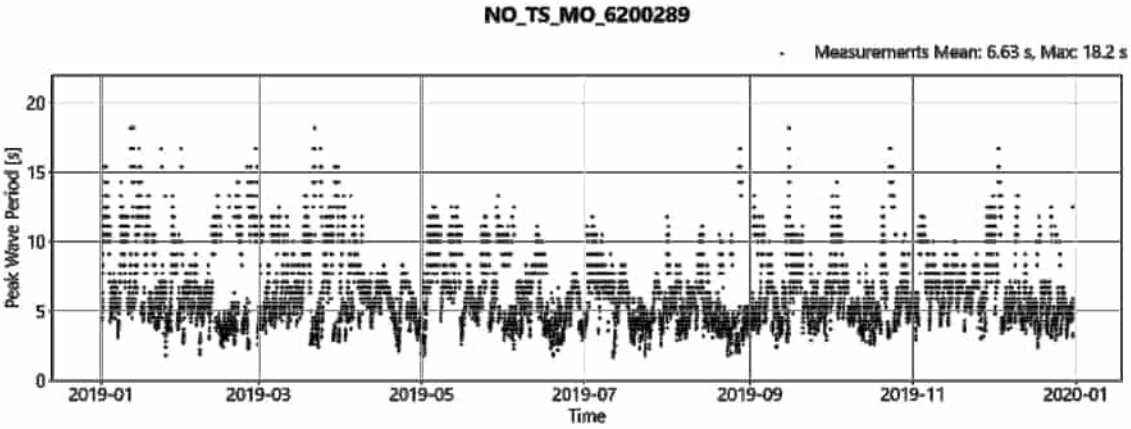

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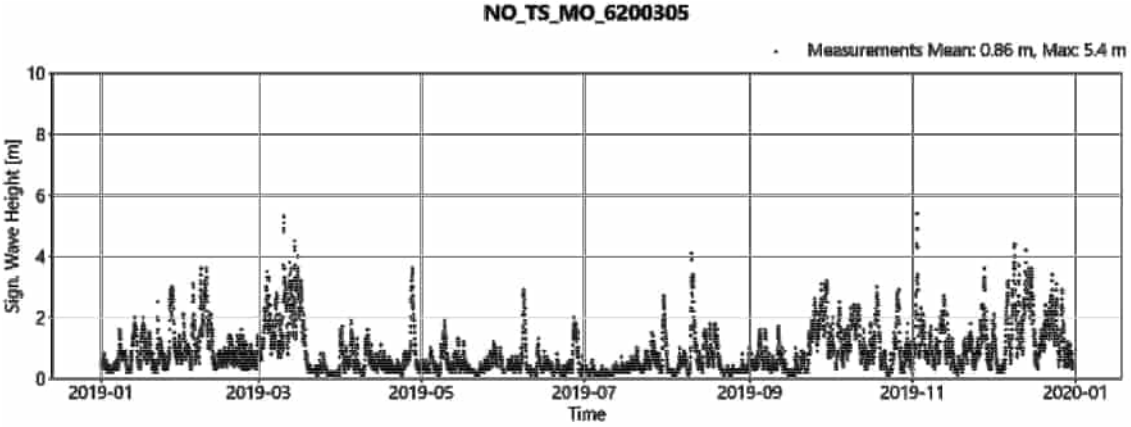

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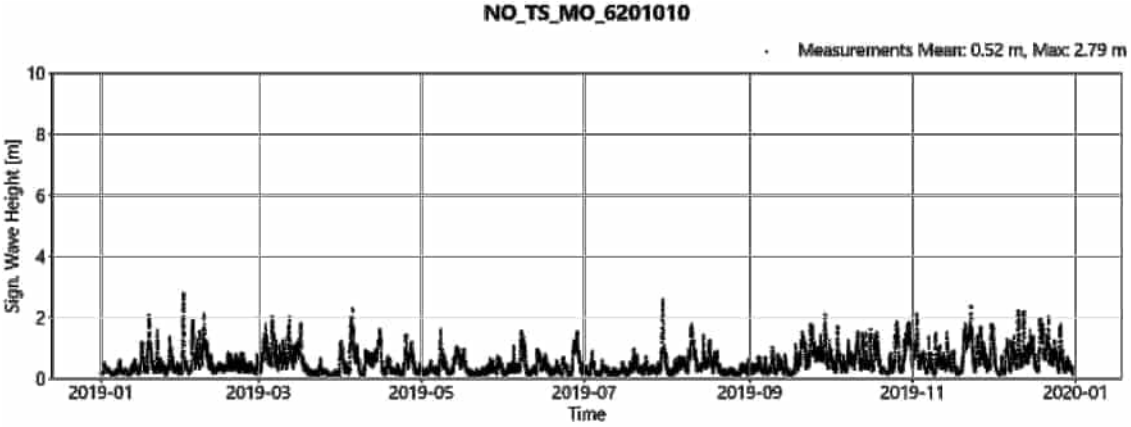

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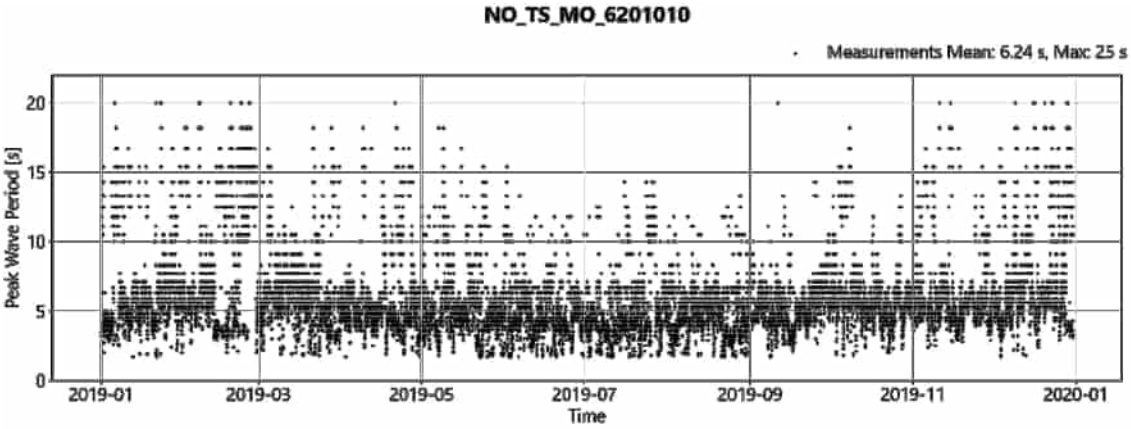

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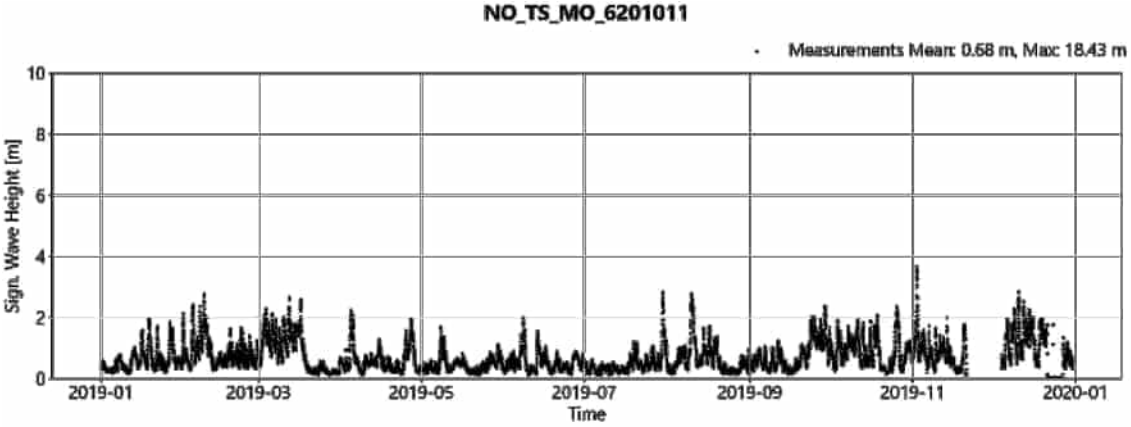

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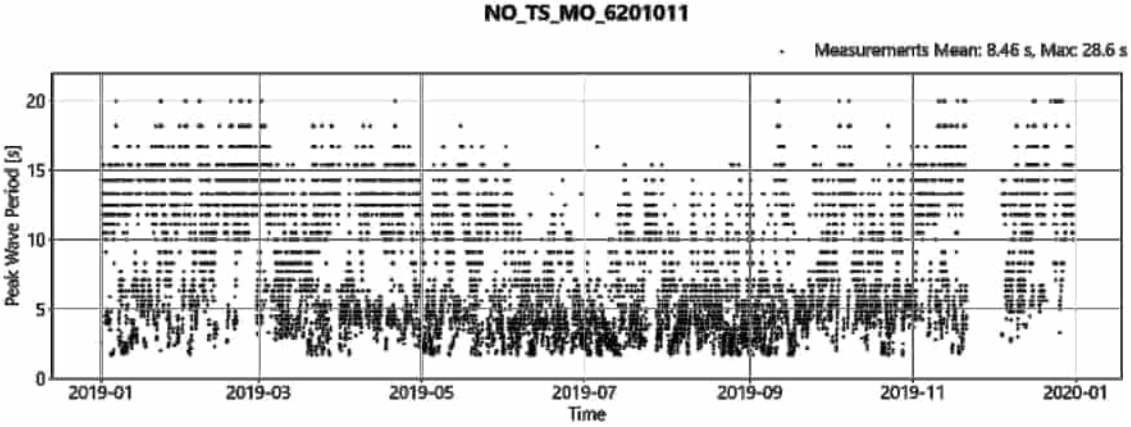

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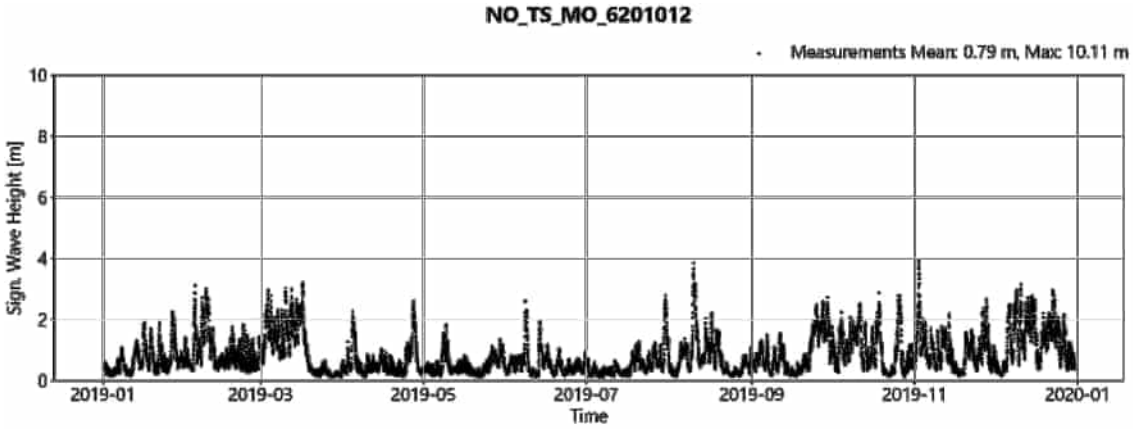

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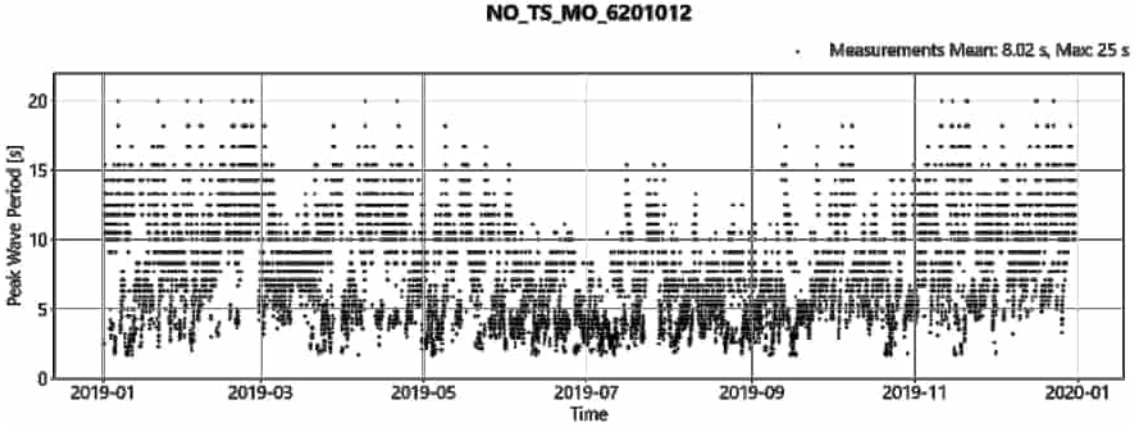

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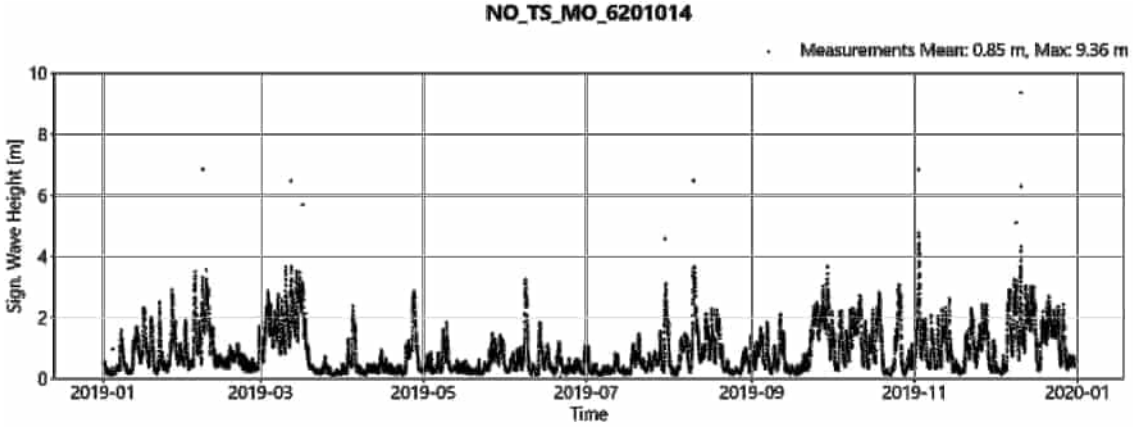

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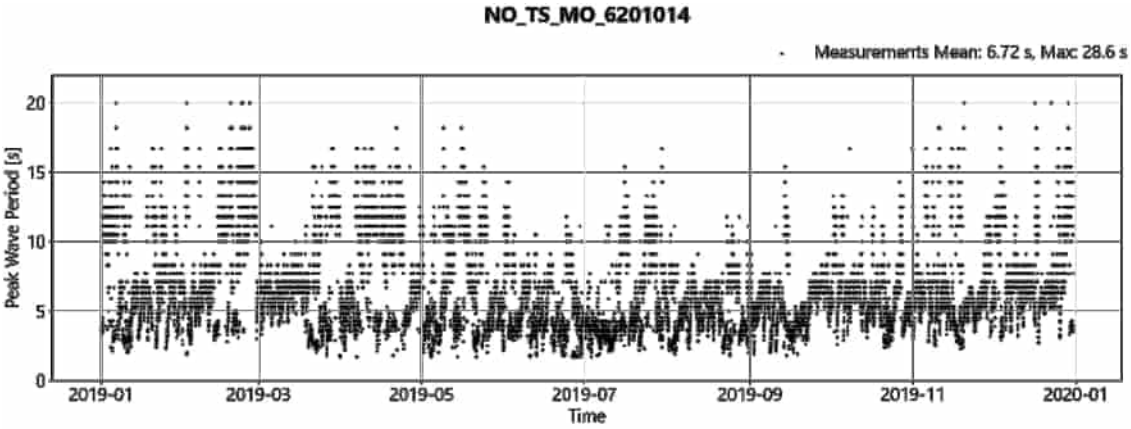

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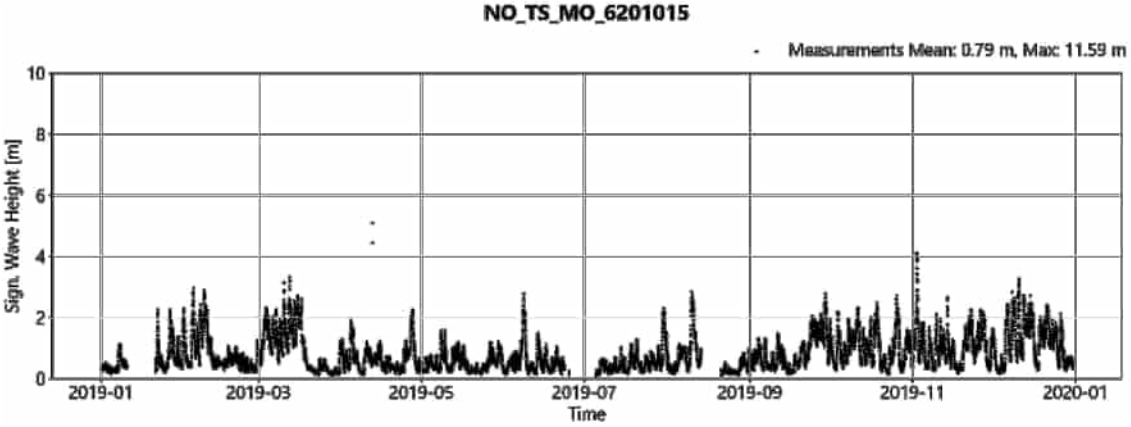

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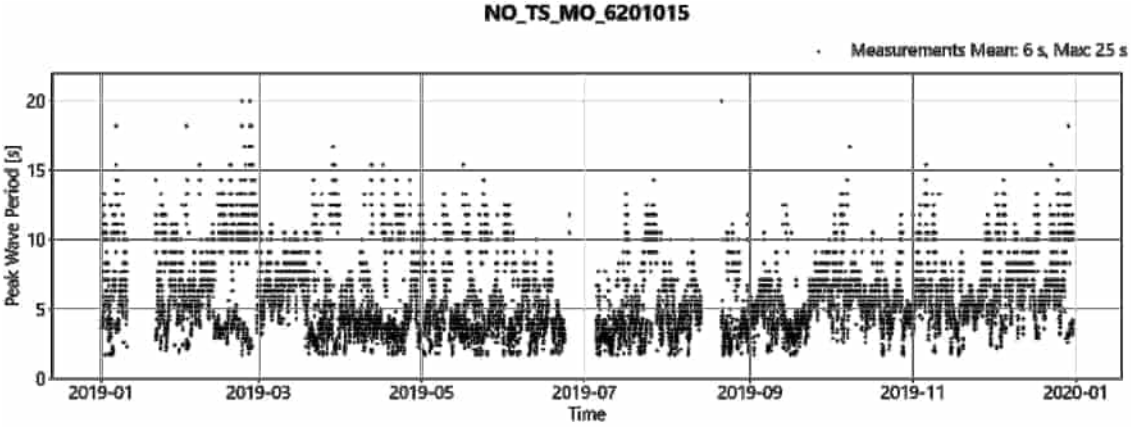

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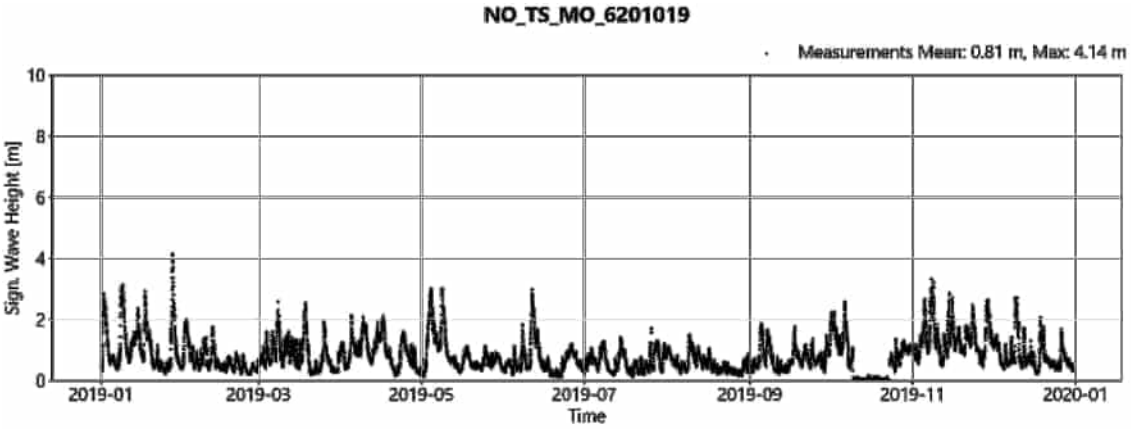

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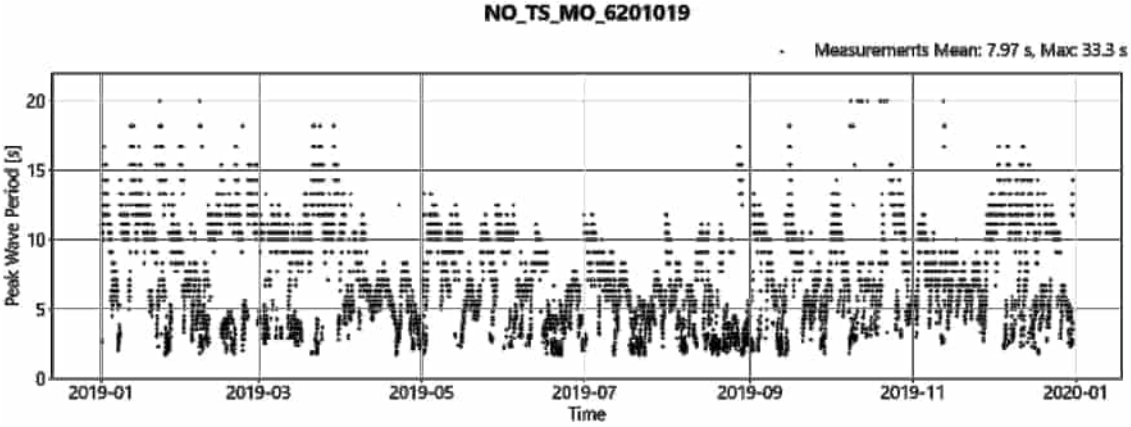

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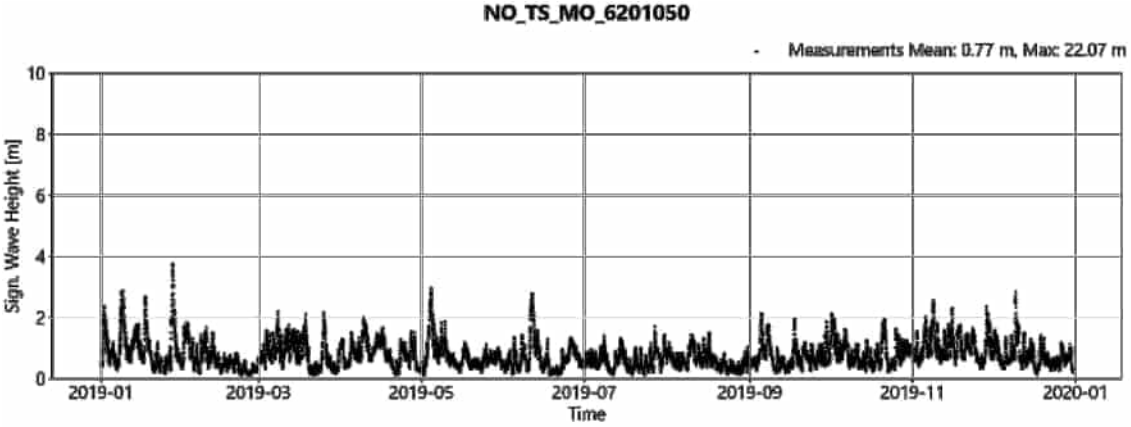

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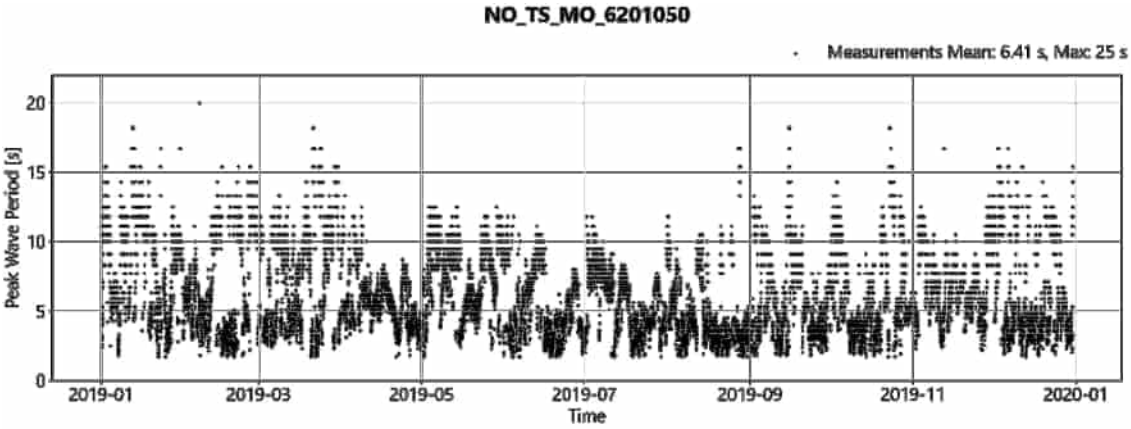

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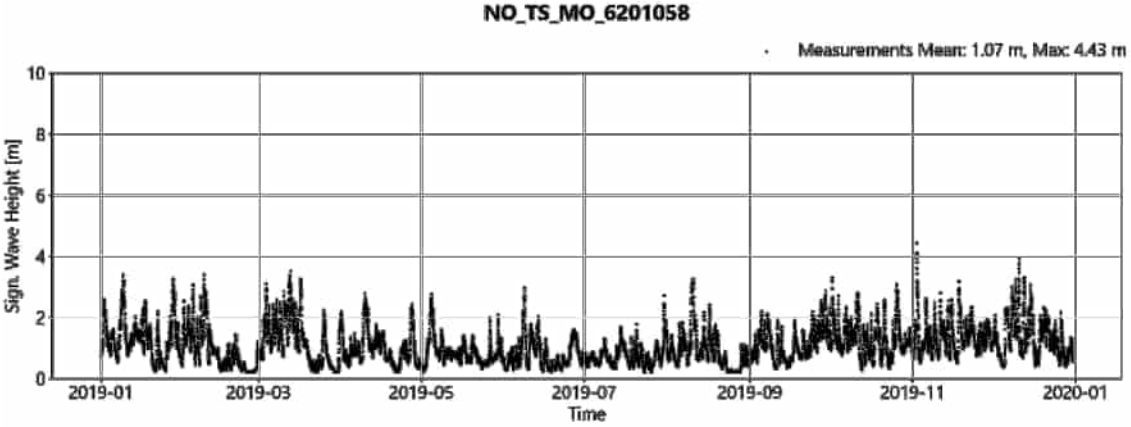

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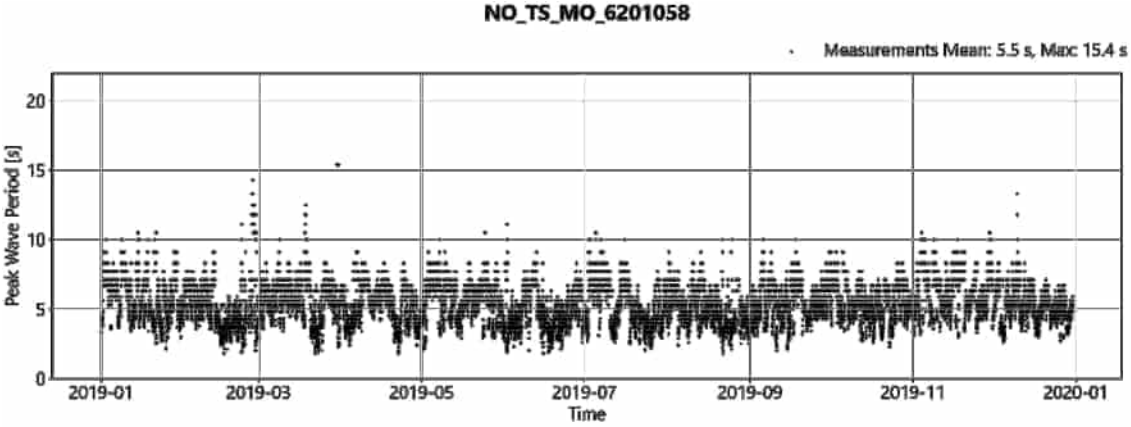

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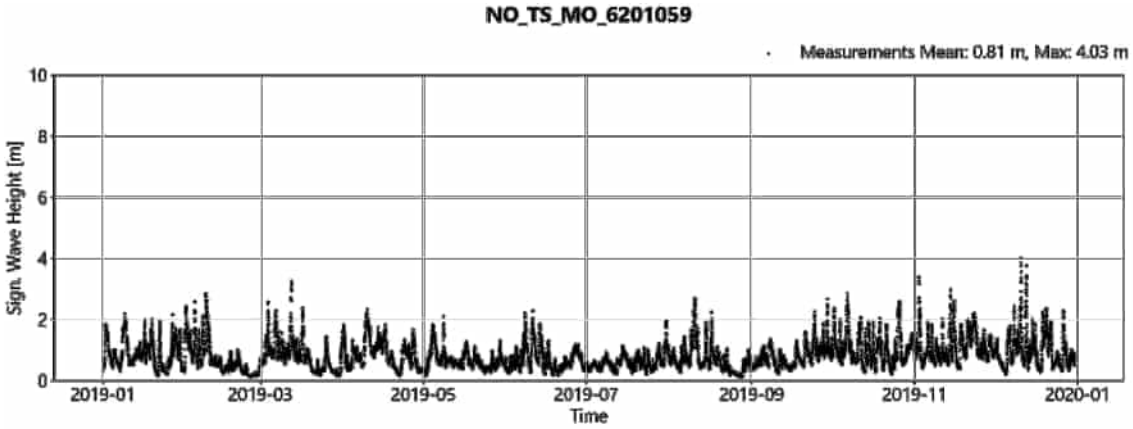

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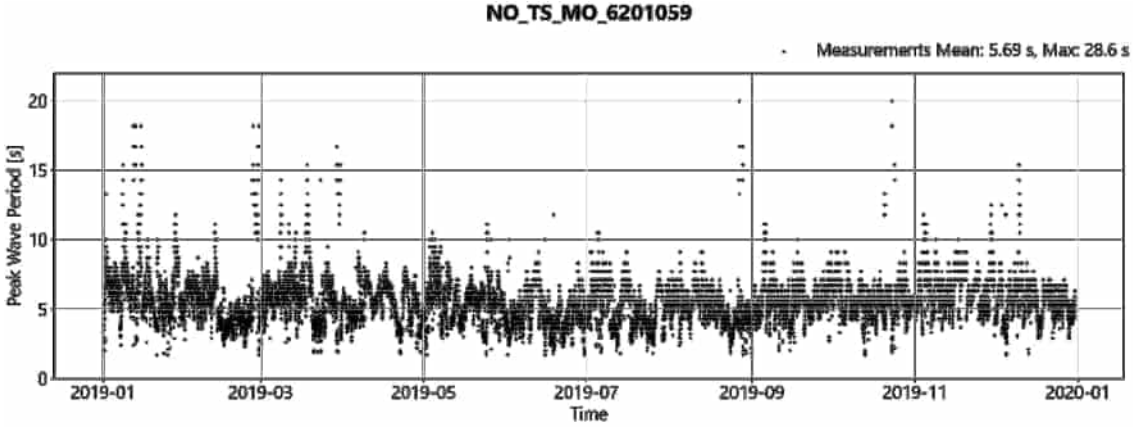

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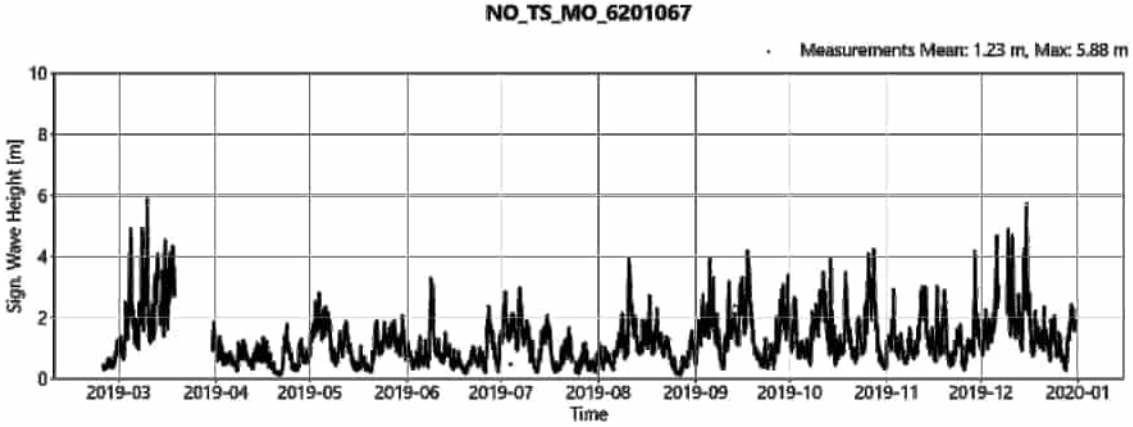

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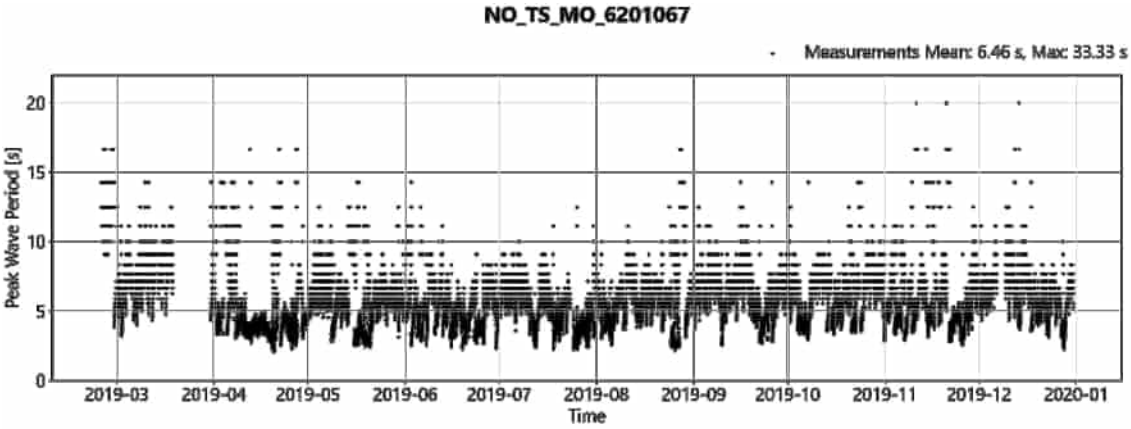

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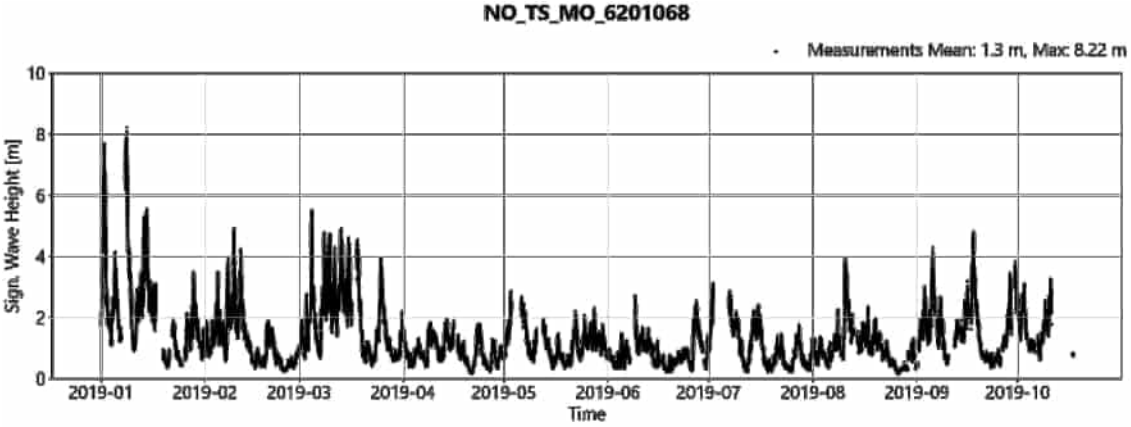

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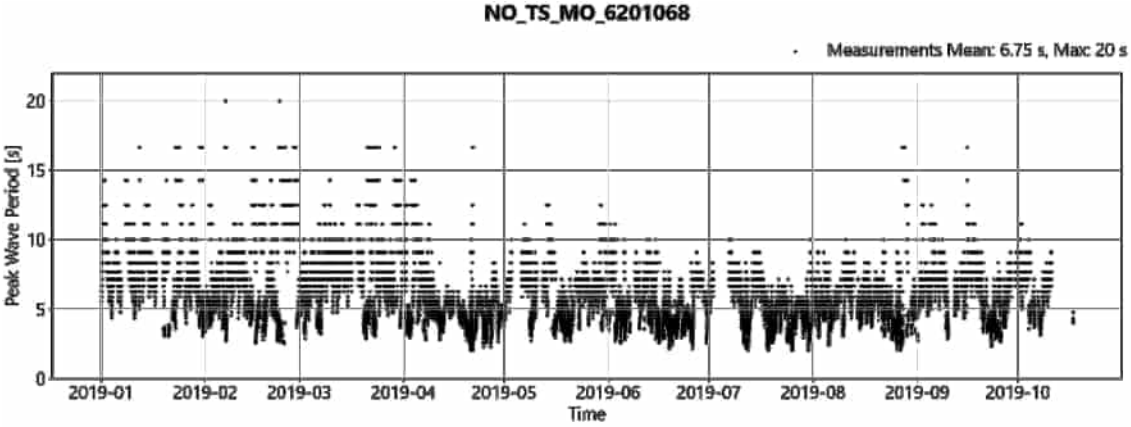

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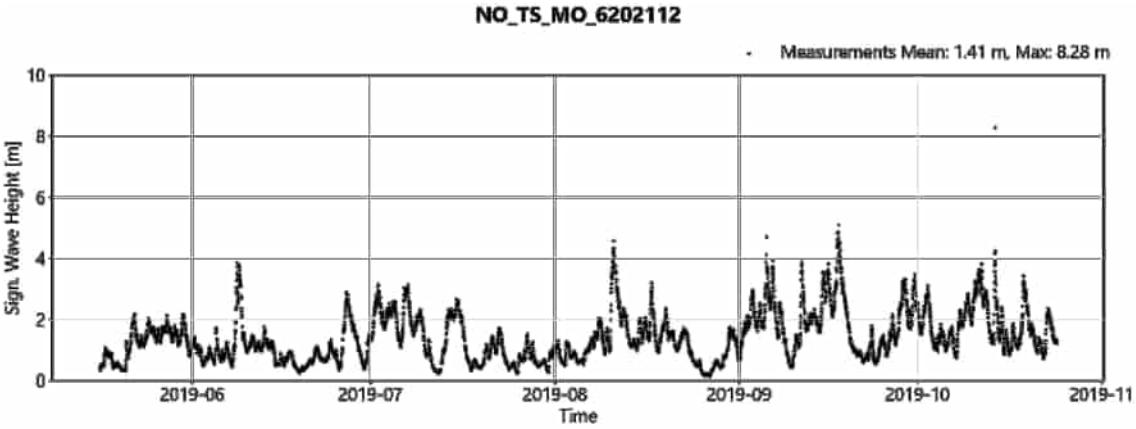

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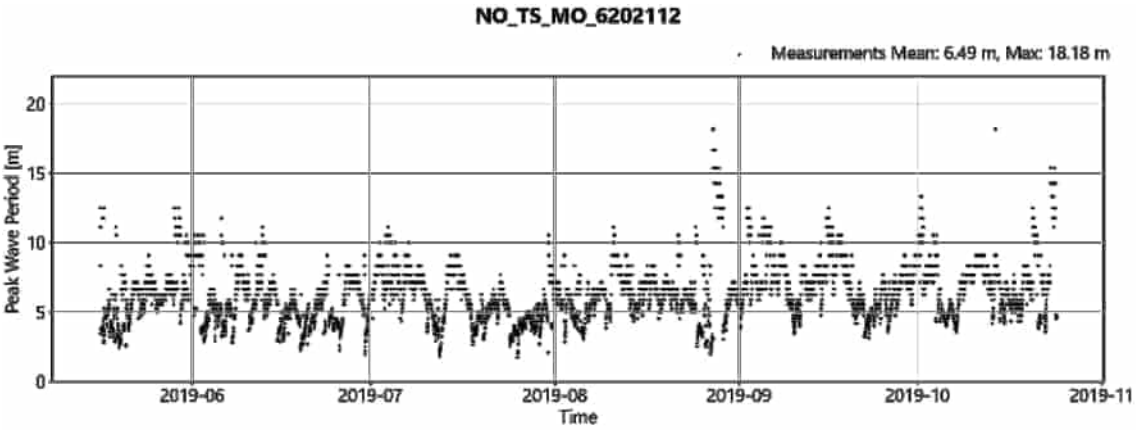

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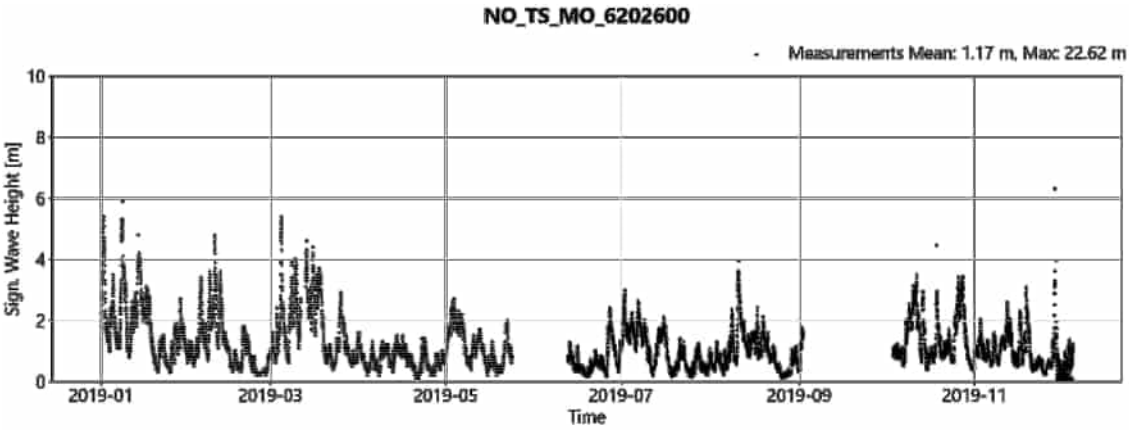

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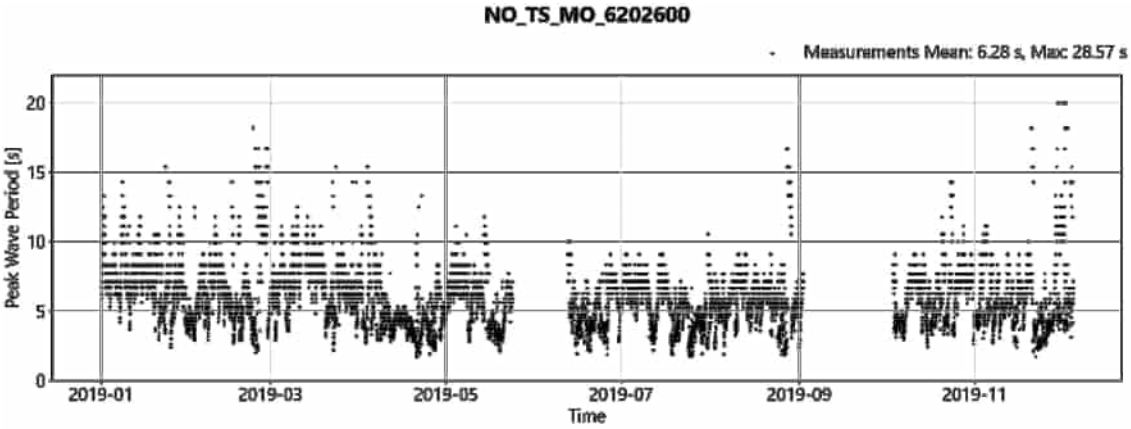

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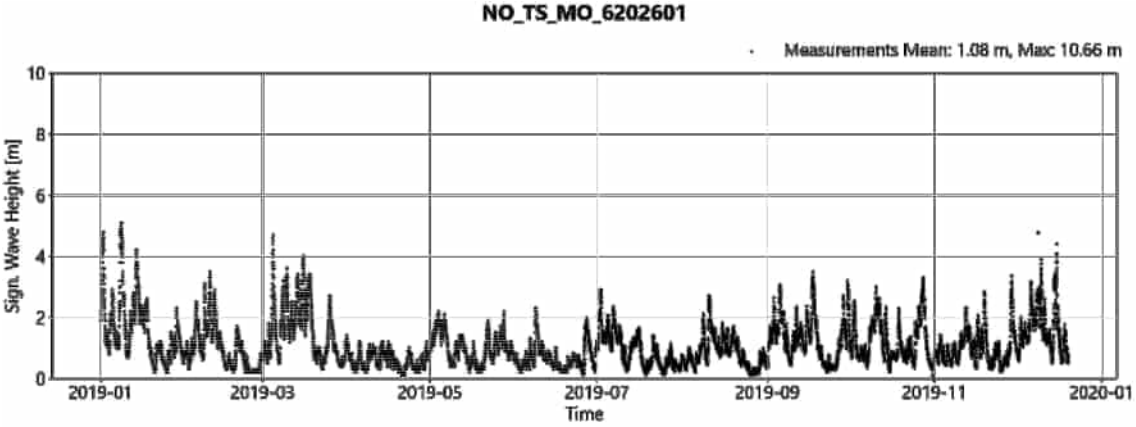

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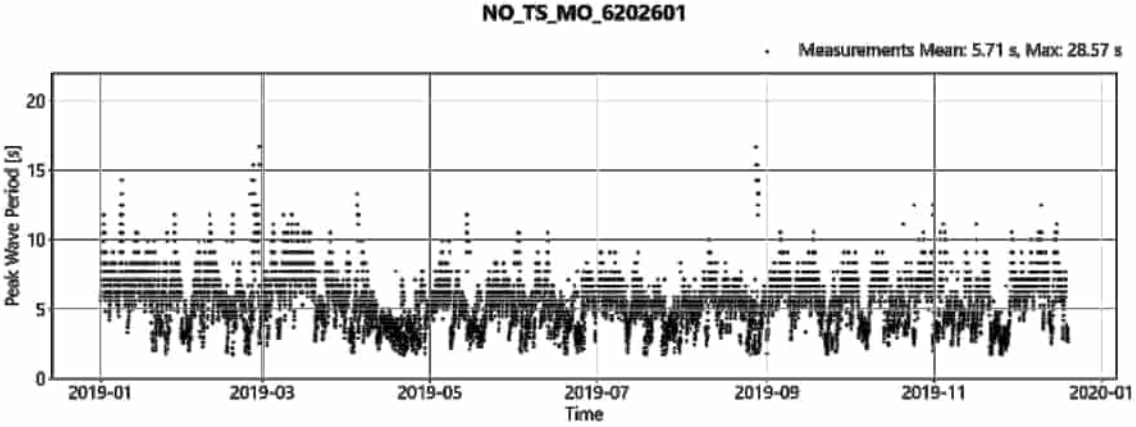

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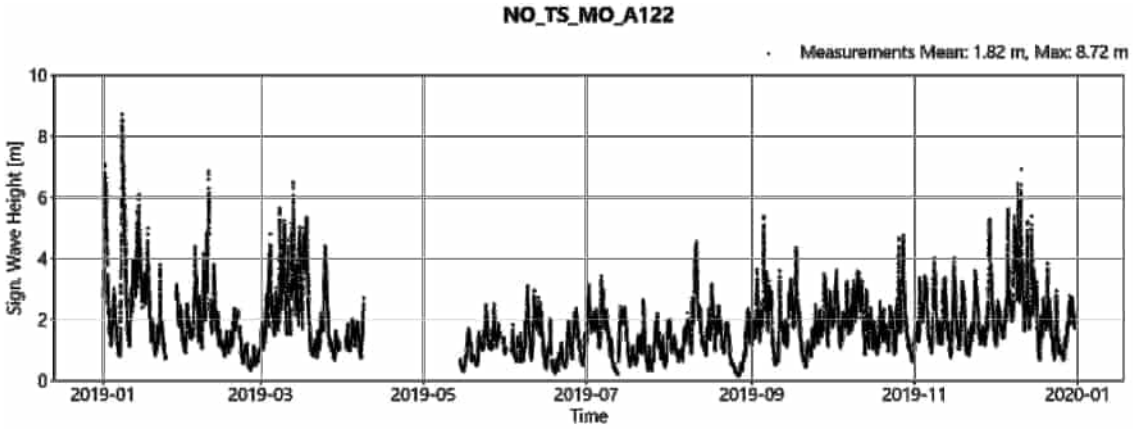

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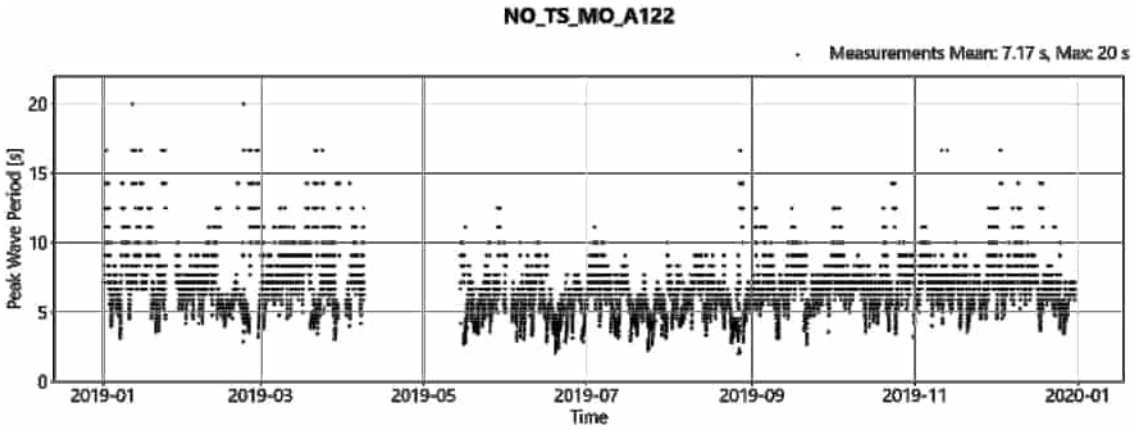

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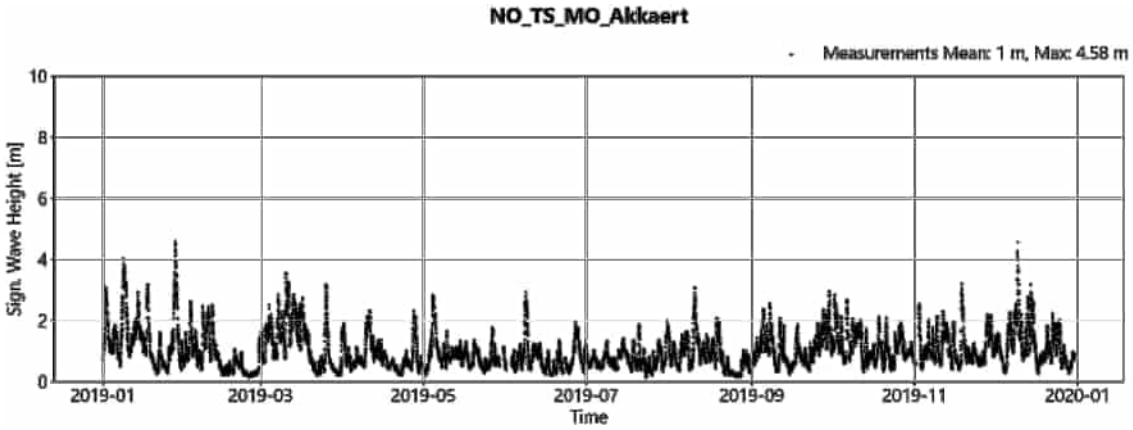

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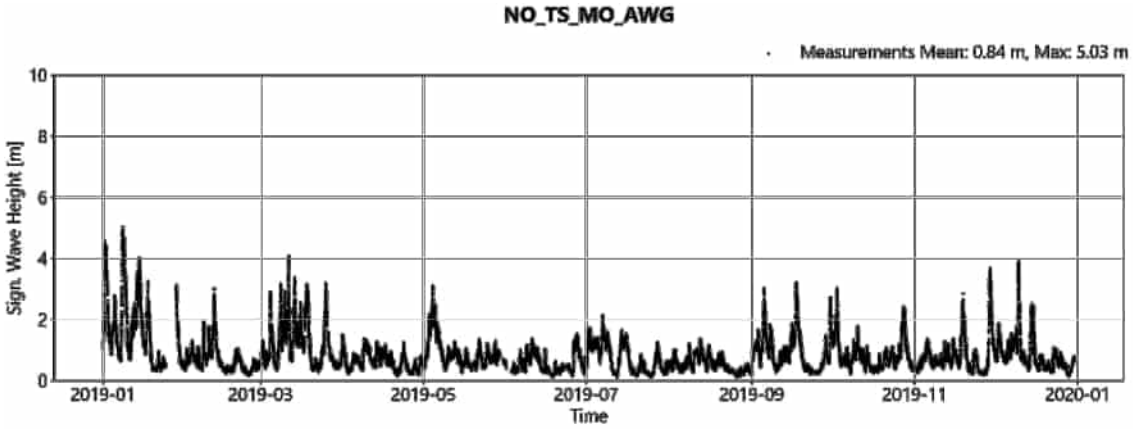

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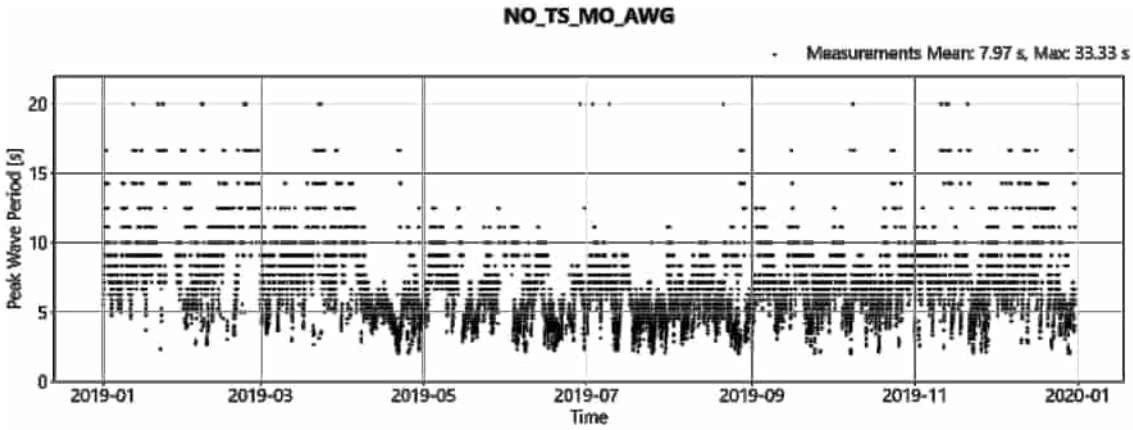

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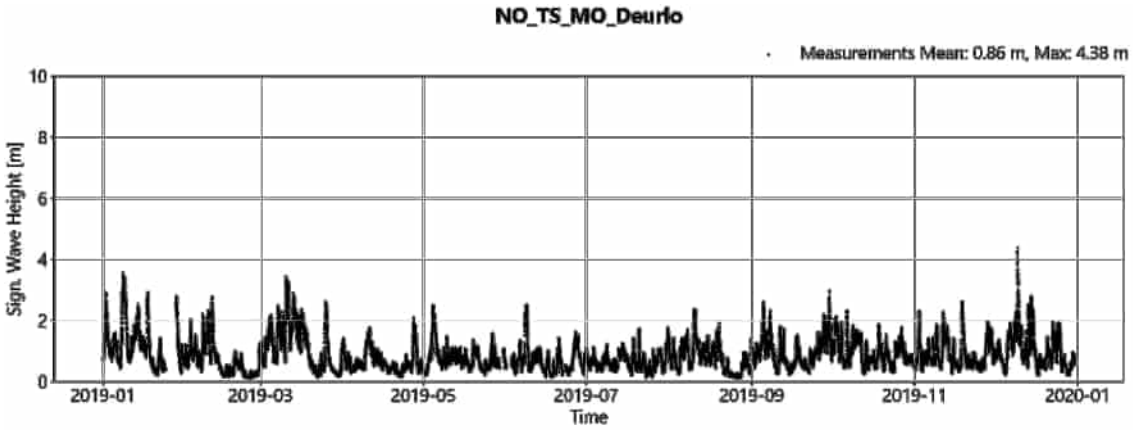

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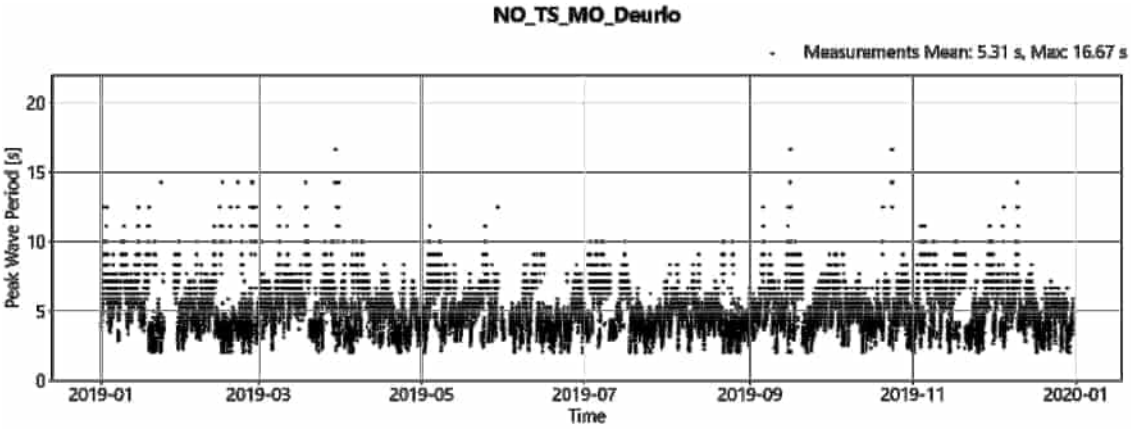

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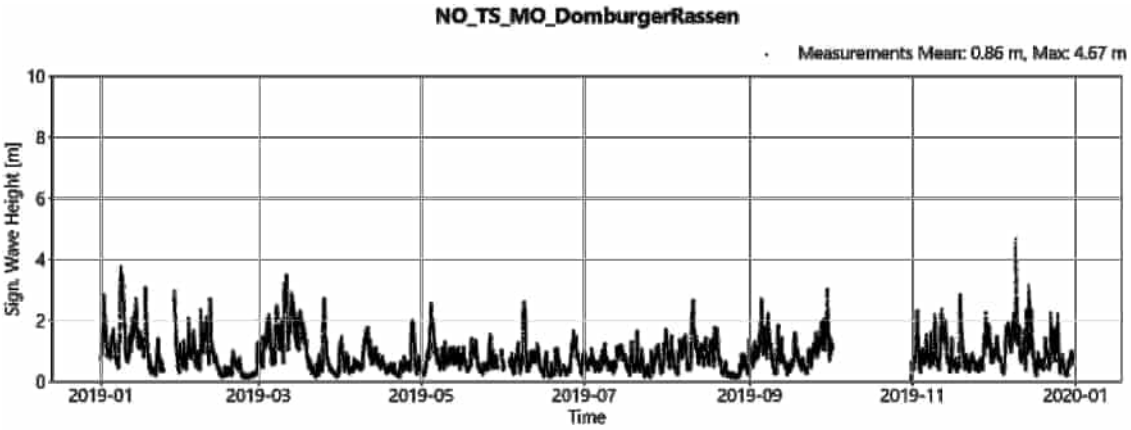

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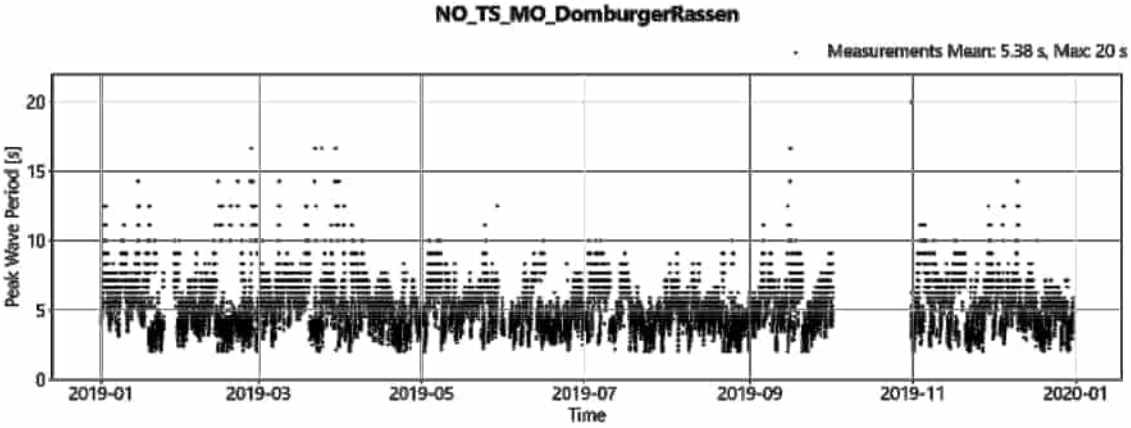

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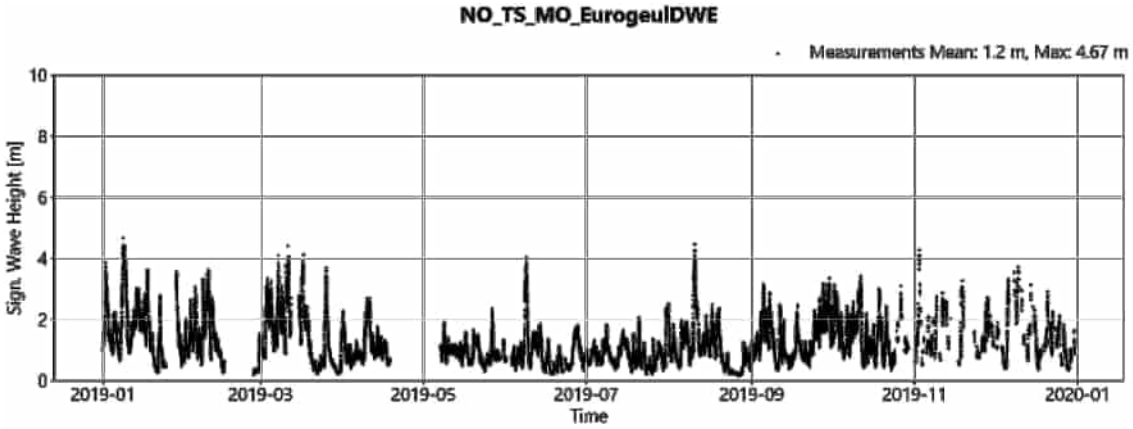

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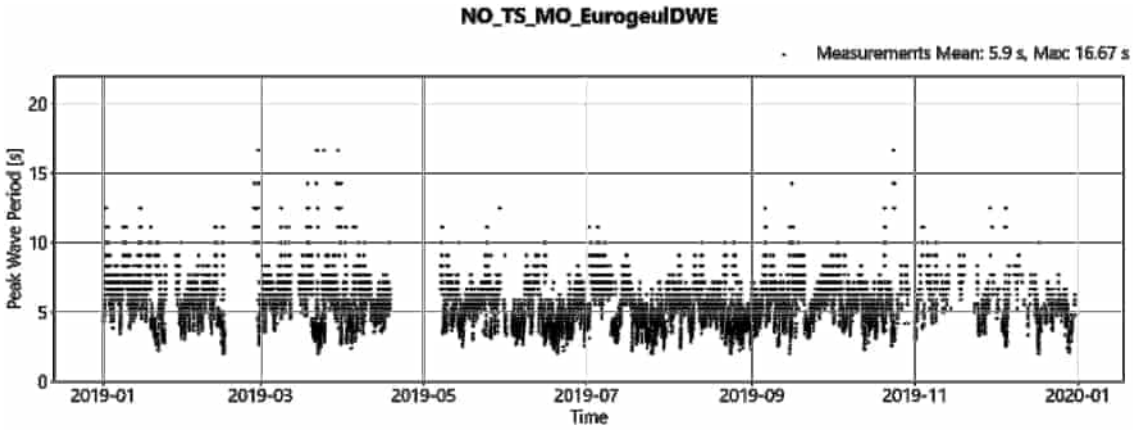

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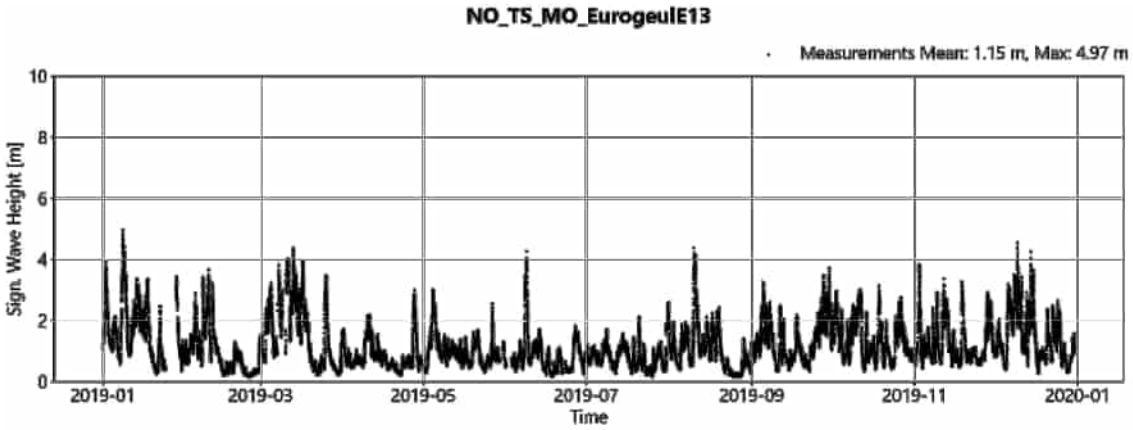

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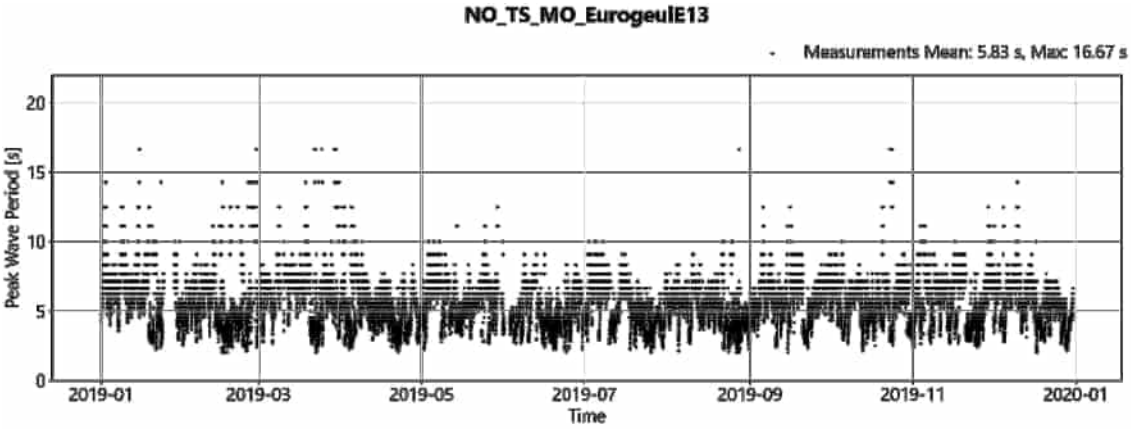

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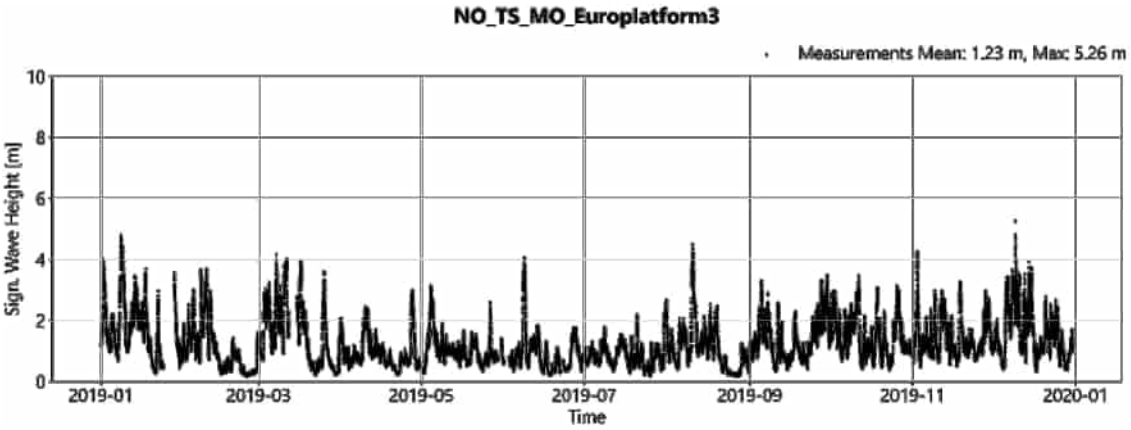

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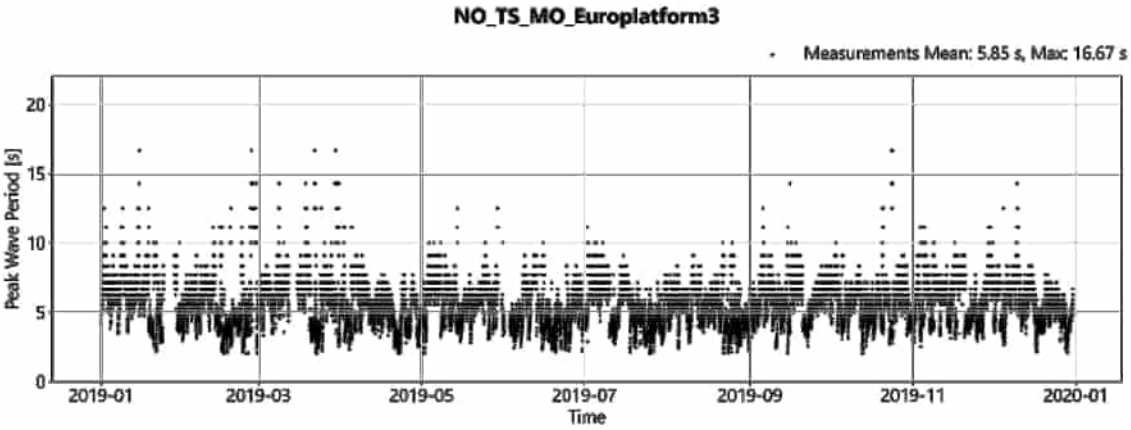

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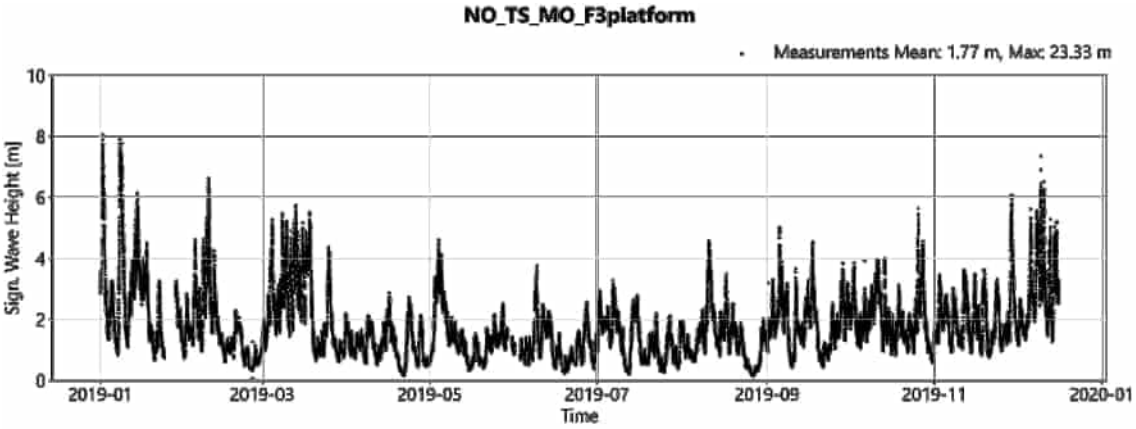

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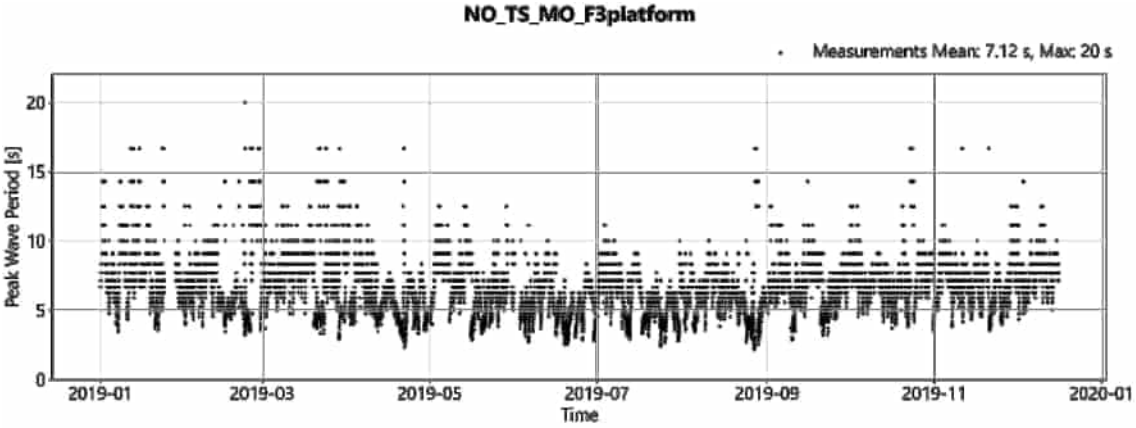

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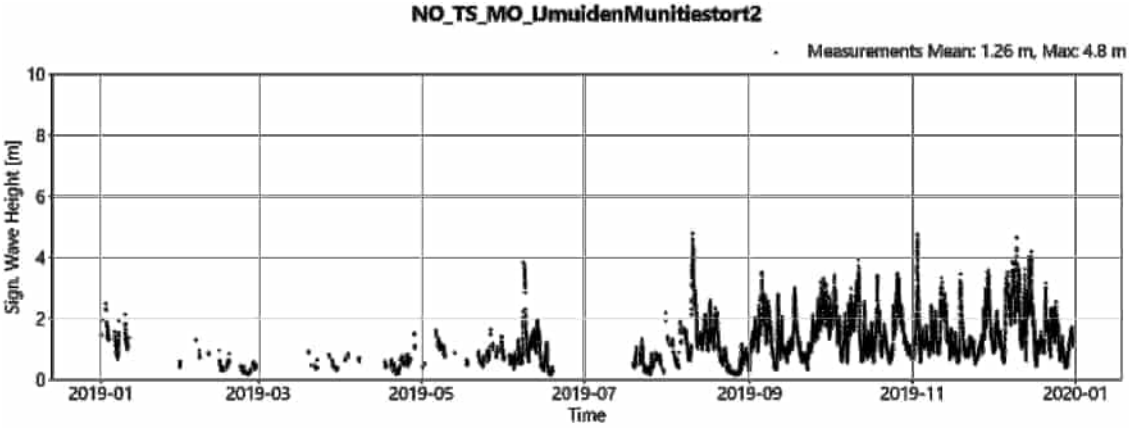

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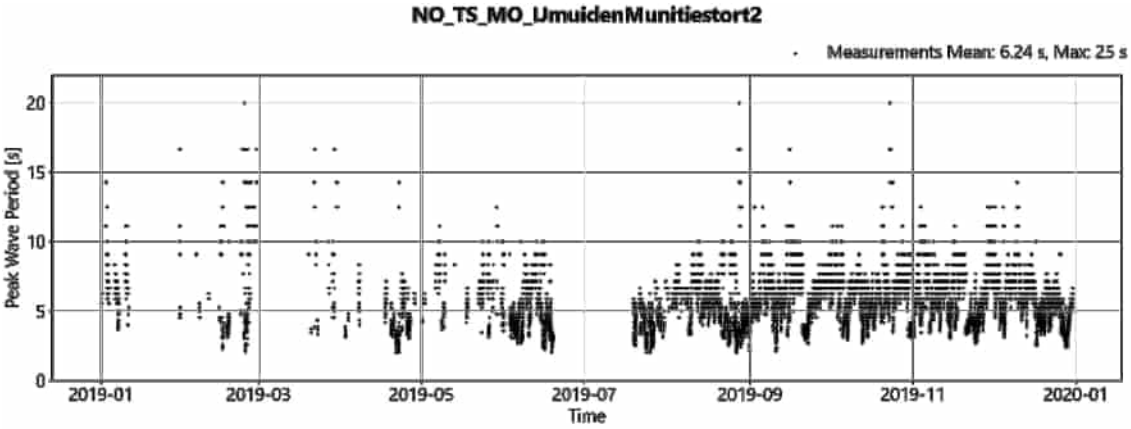

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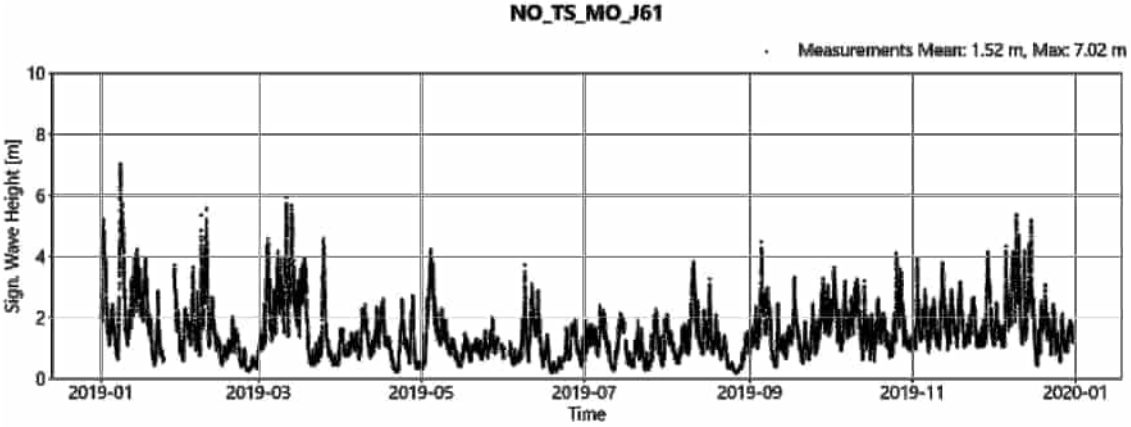

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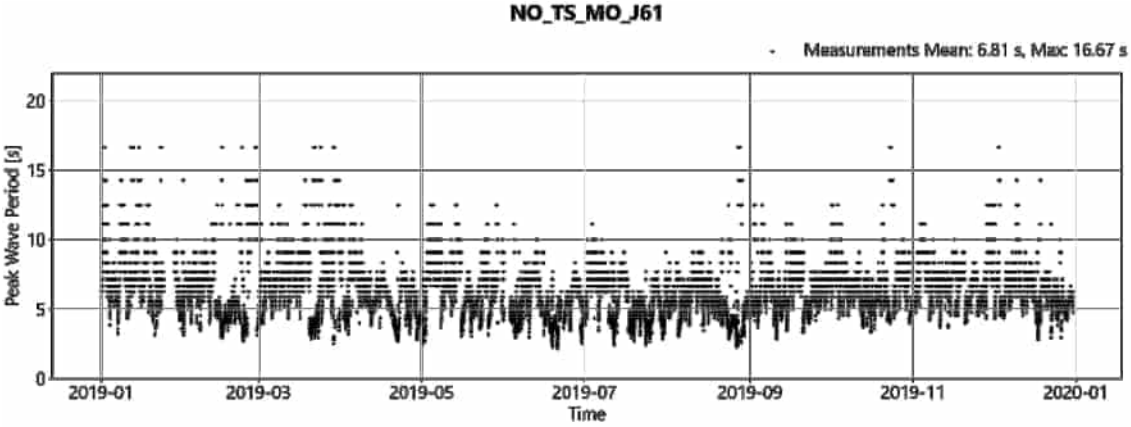

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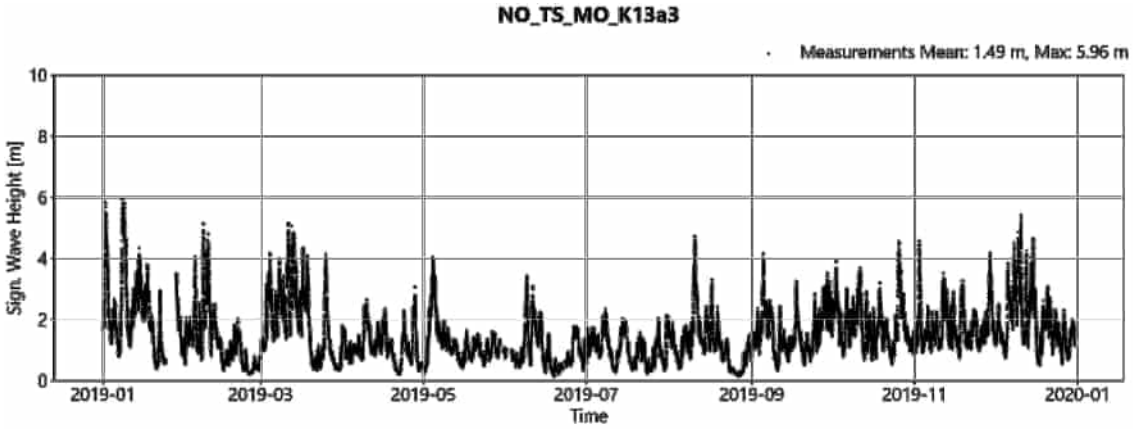

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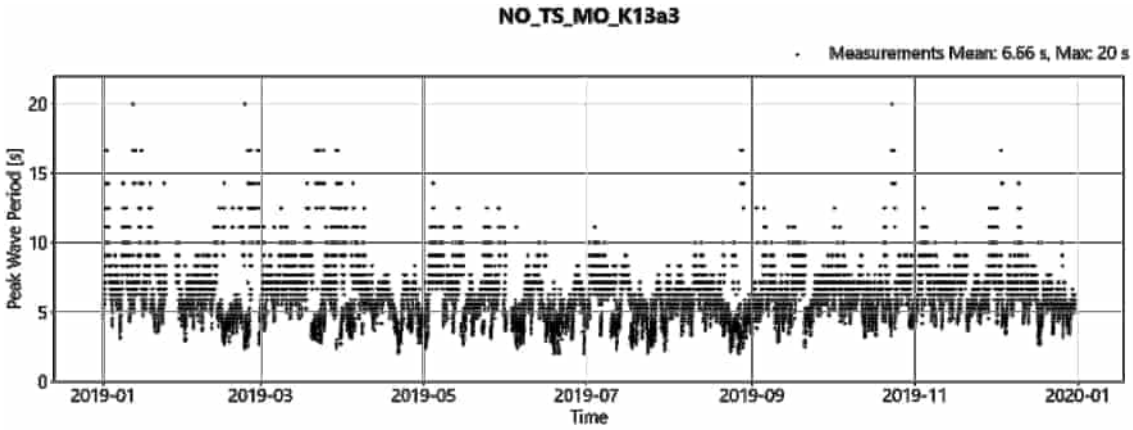

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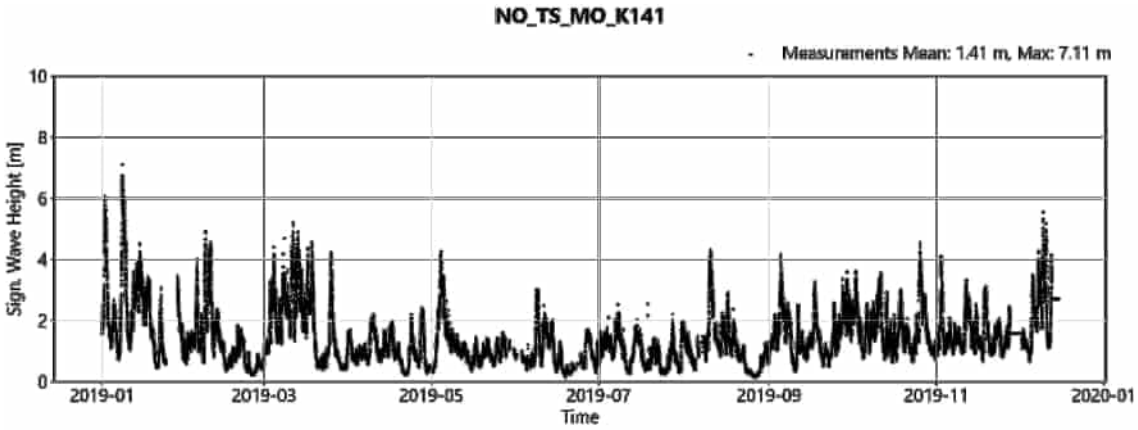

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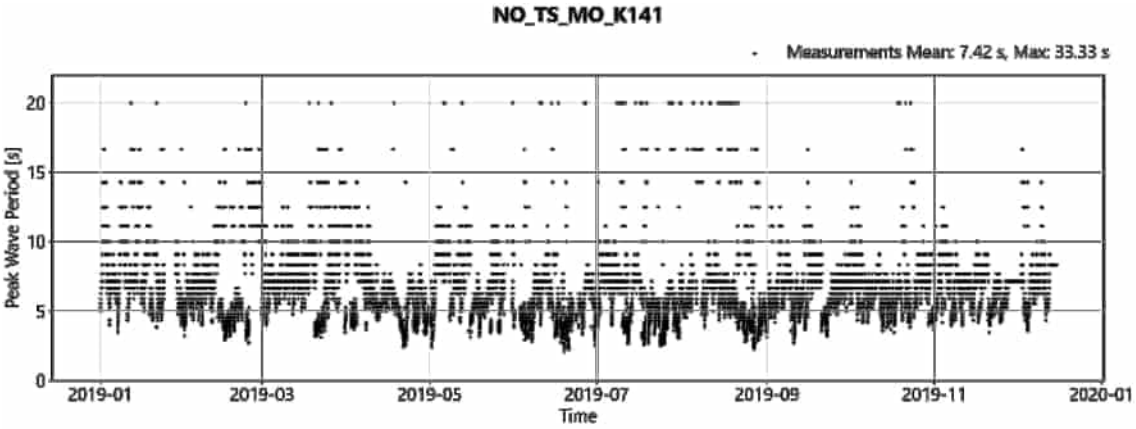

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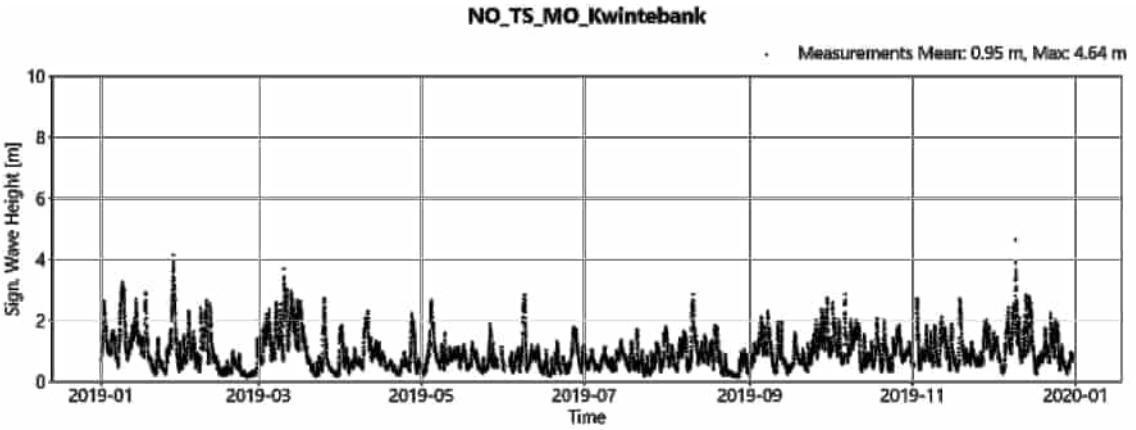

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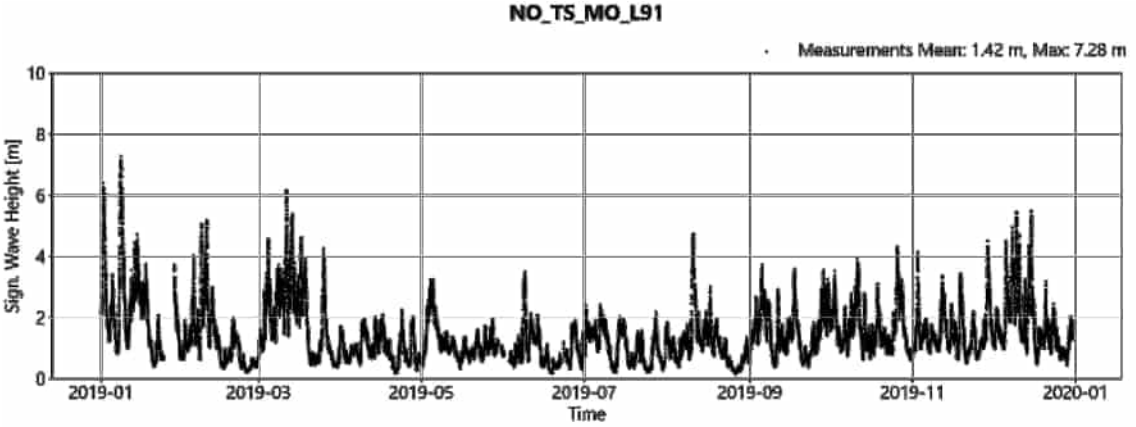

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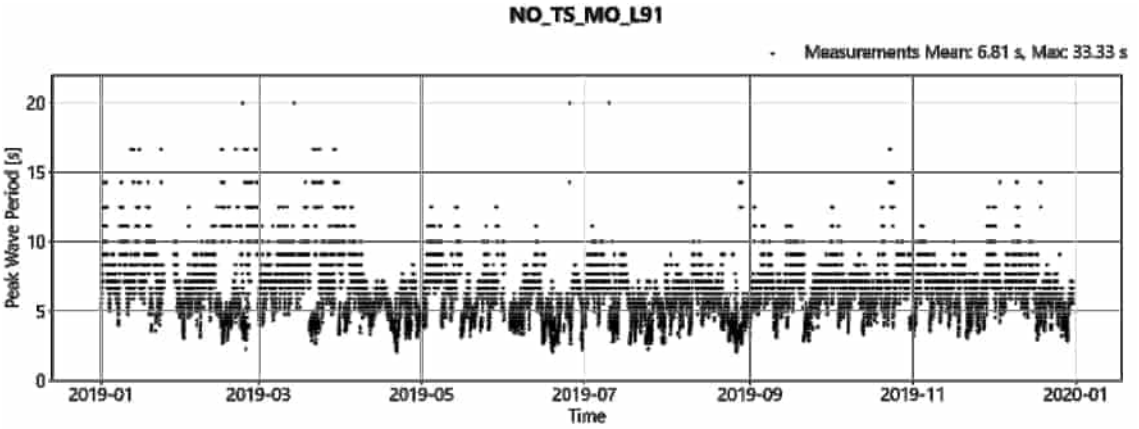

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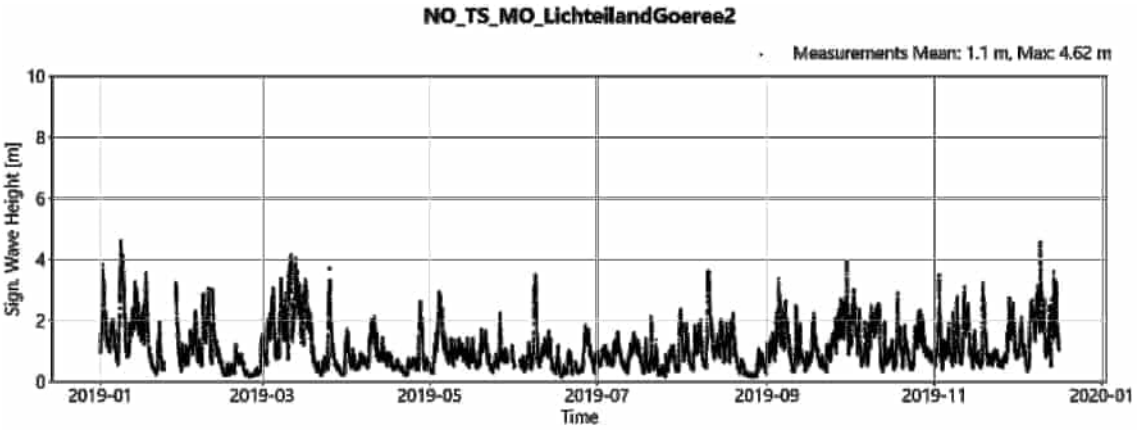

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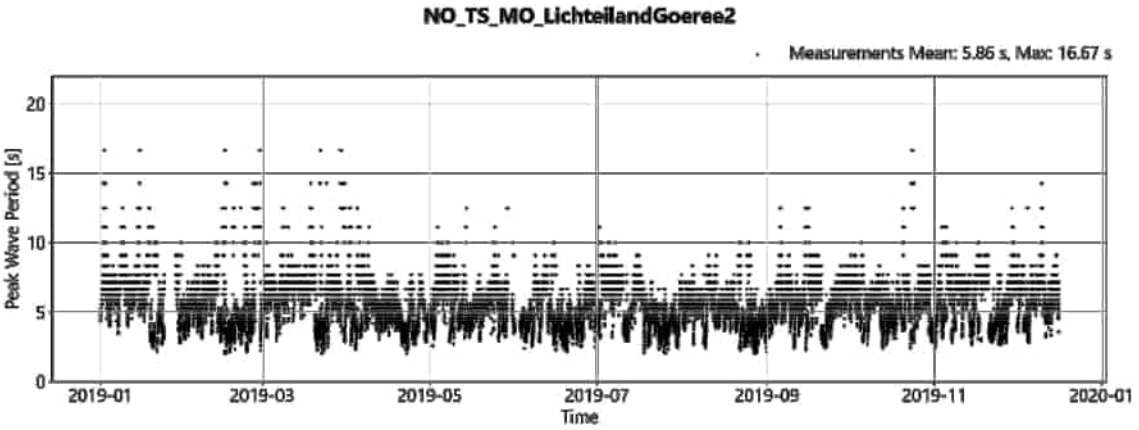

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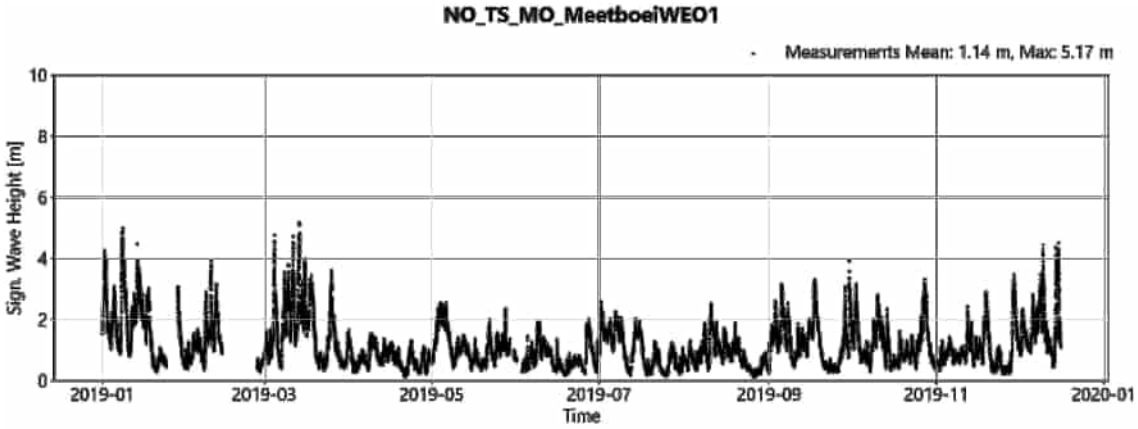

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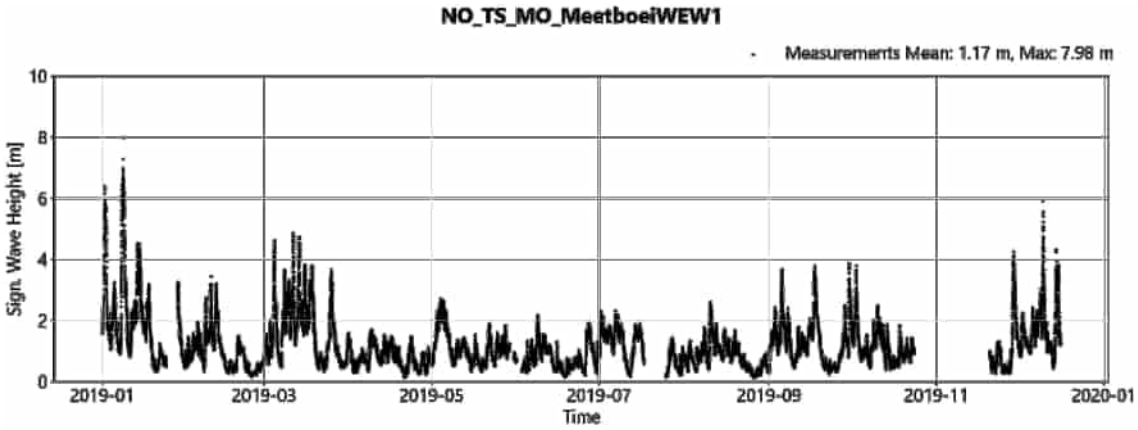

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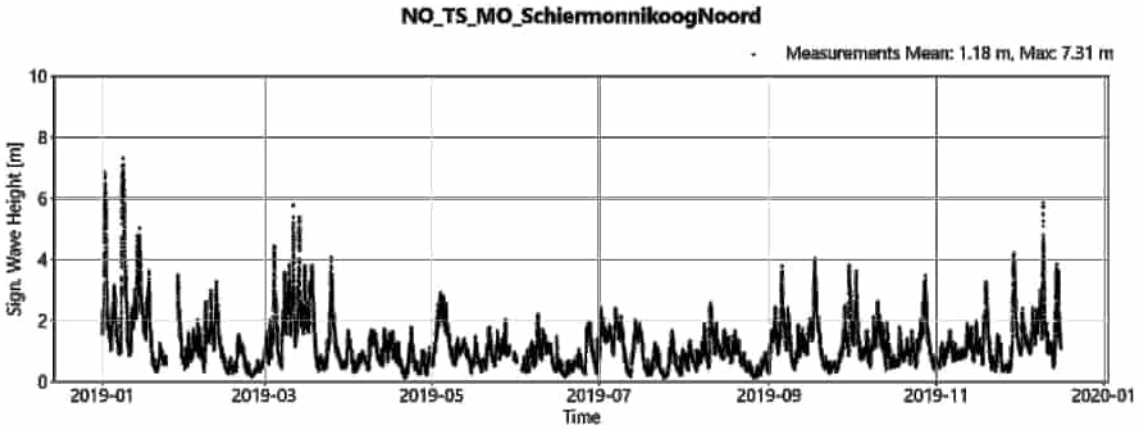

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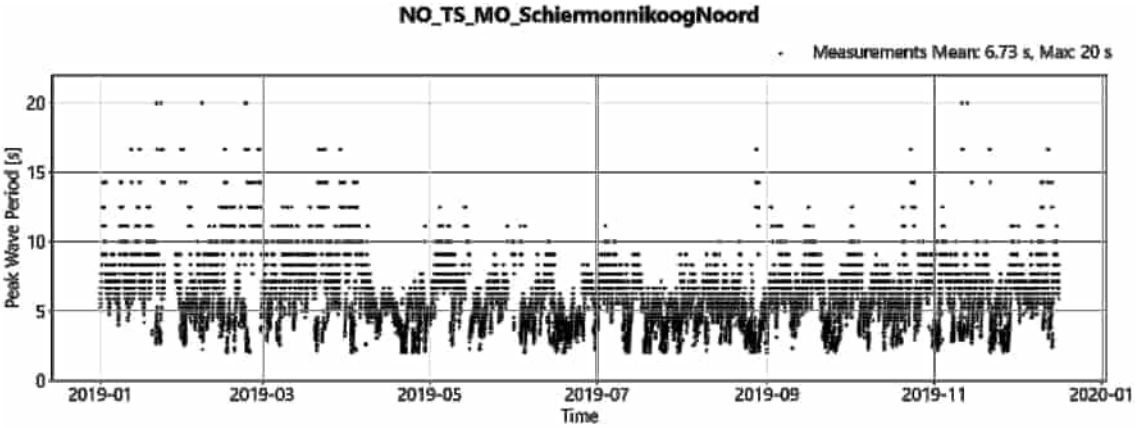

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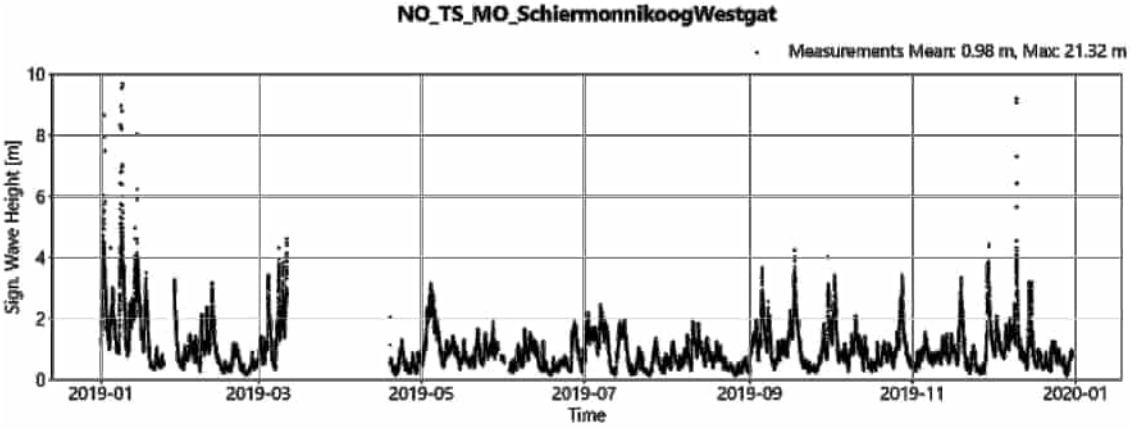

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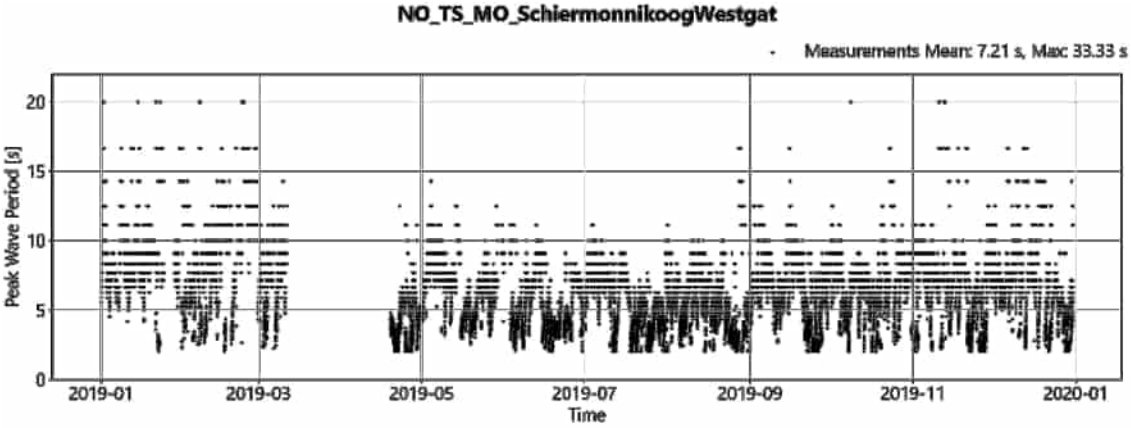

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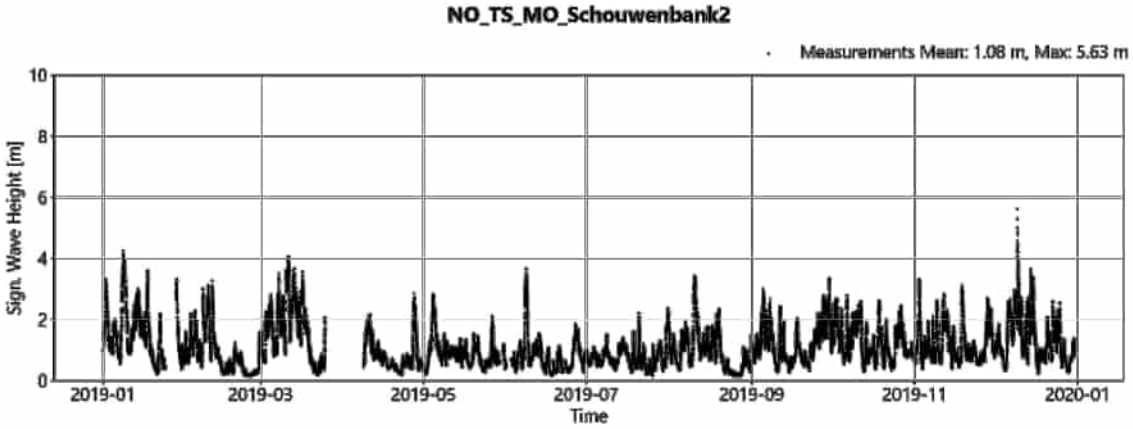

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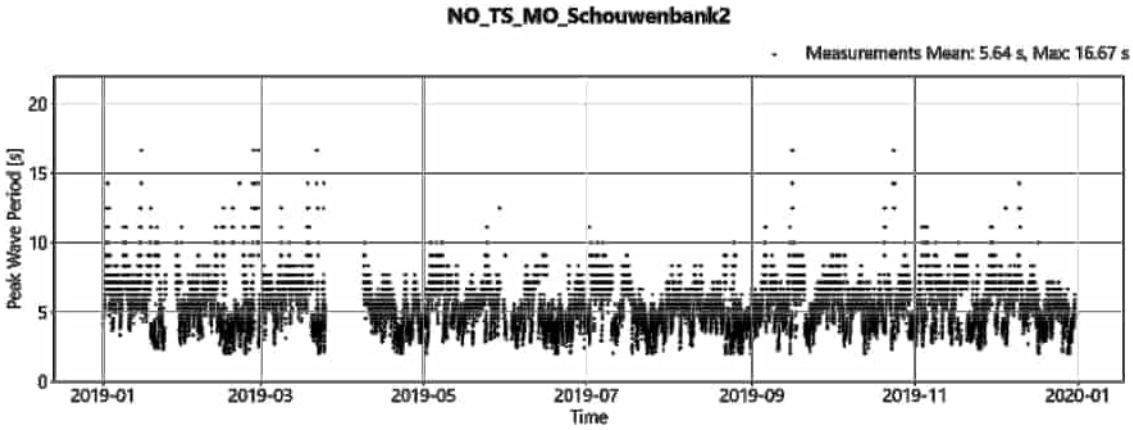

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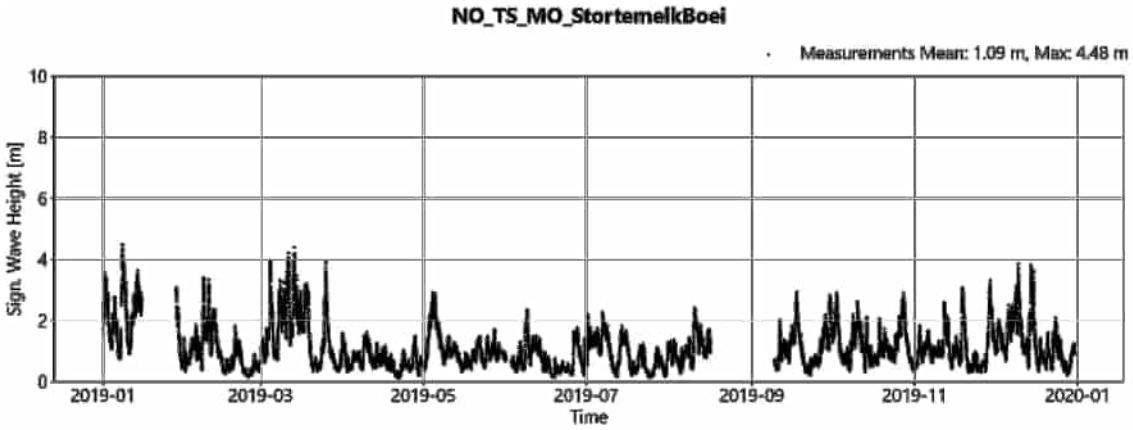

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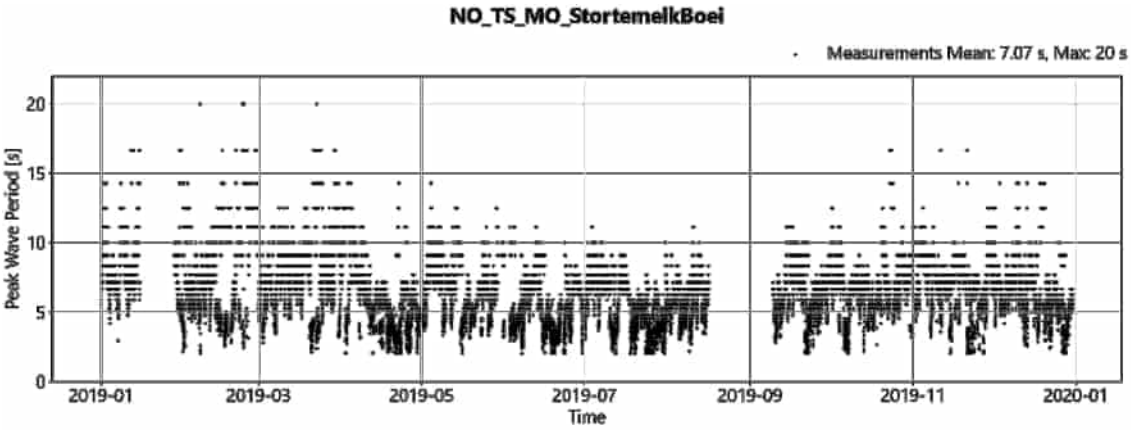

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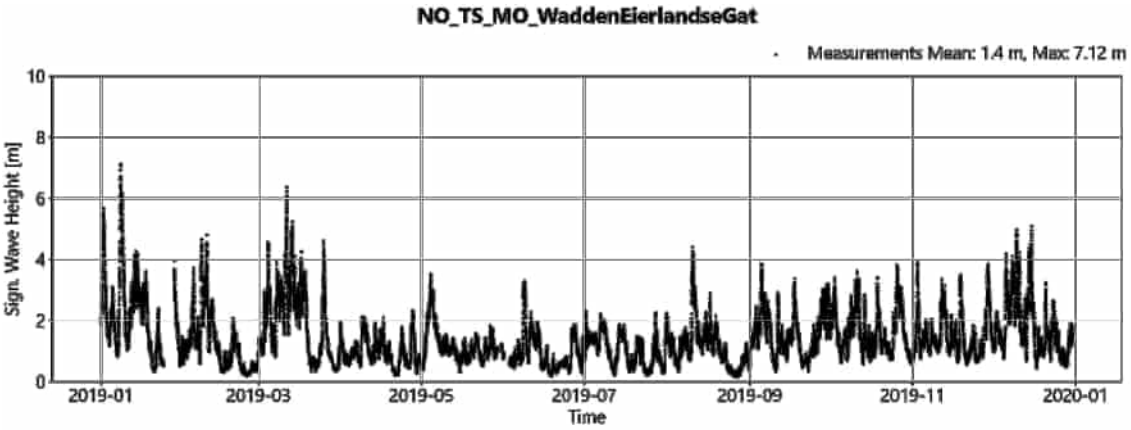

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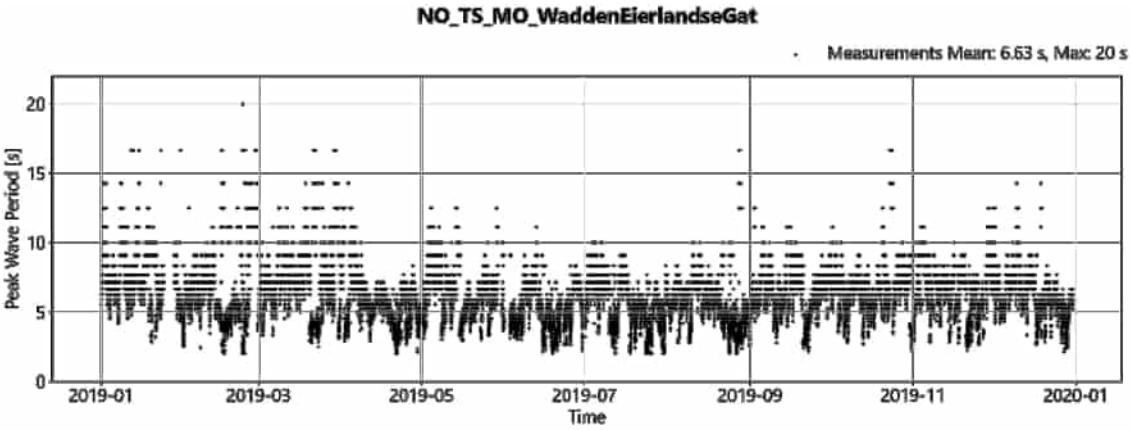

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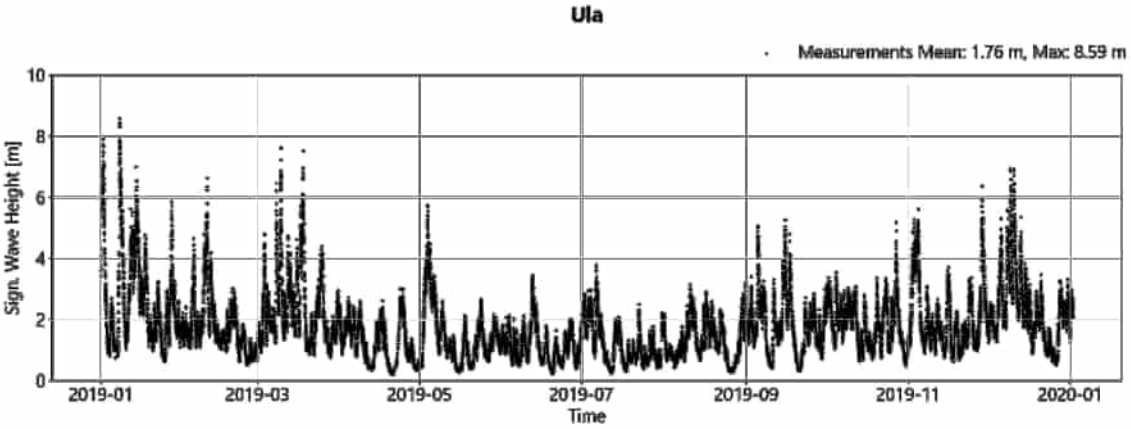
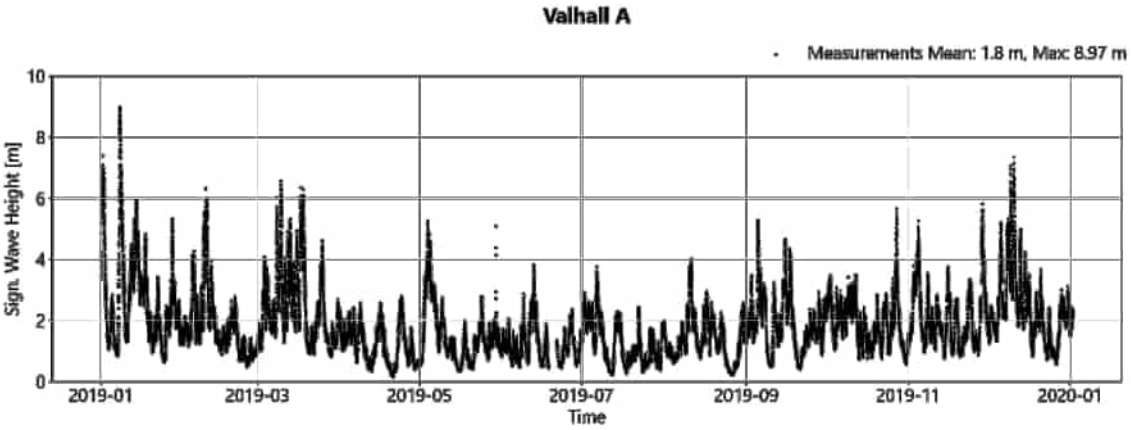
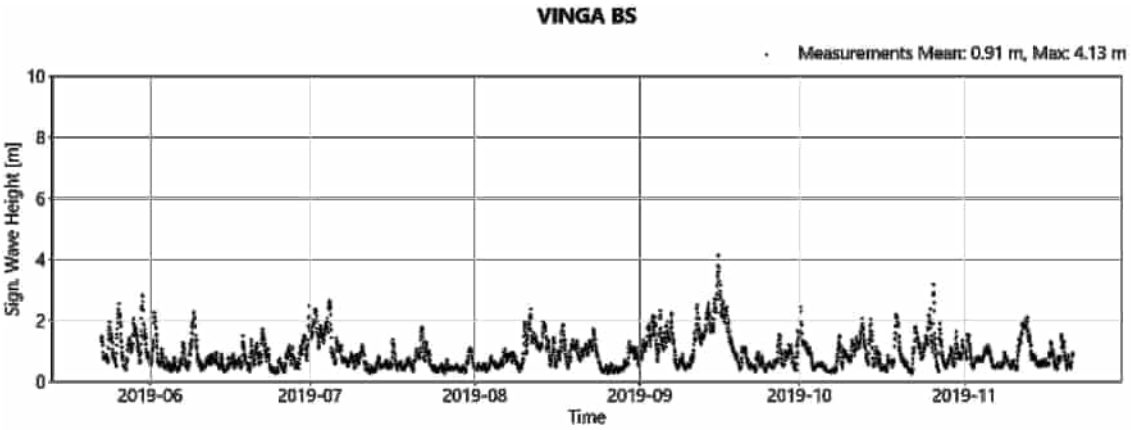


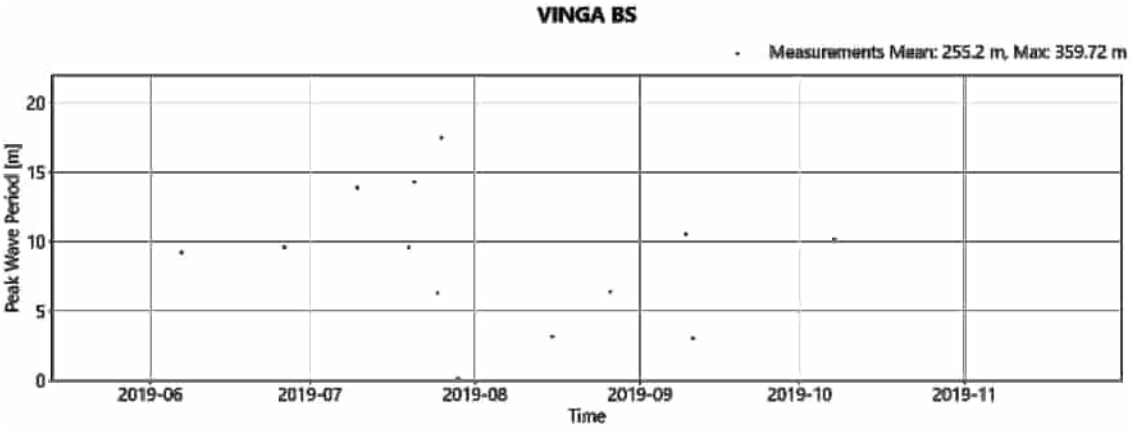
Ula_Hs: TS_plot_Ula_Ula



Valhall A_Hs: TS_plot_Valhall A_Valhall A

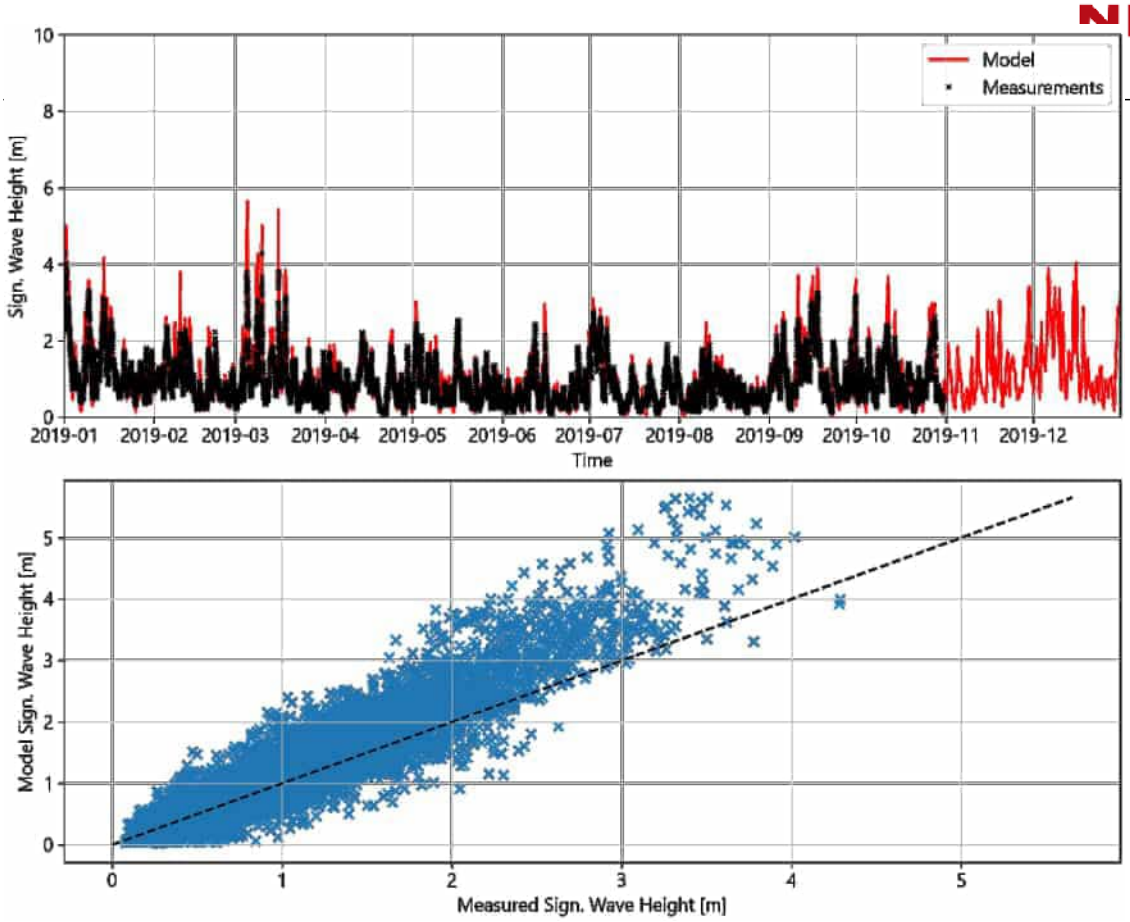


VINGA BS_Hs: TS_plot_VINGA BS_VINGA BS

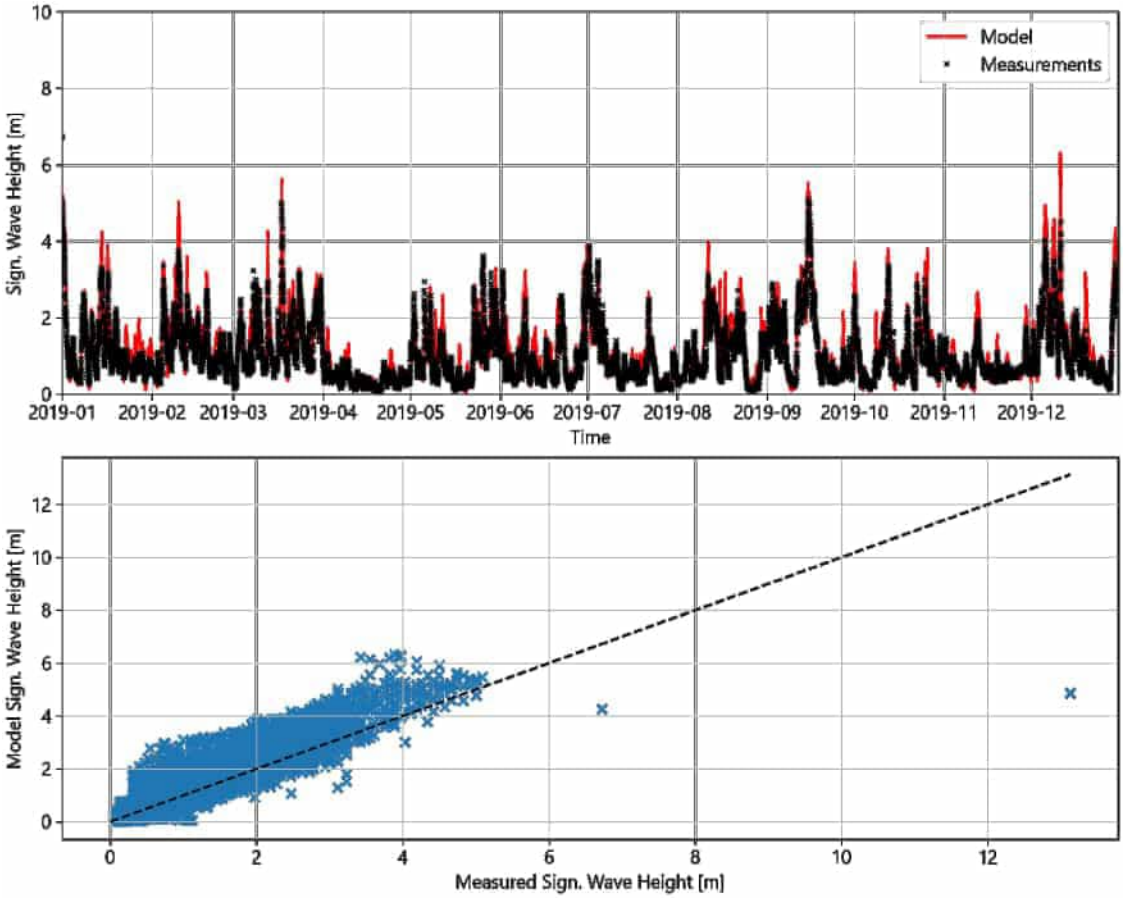


VINGA BS_Tp: TS_plot_VINGA BS_VINGA BS

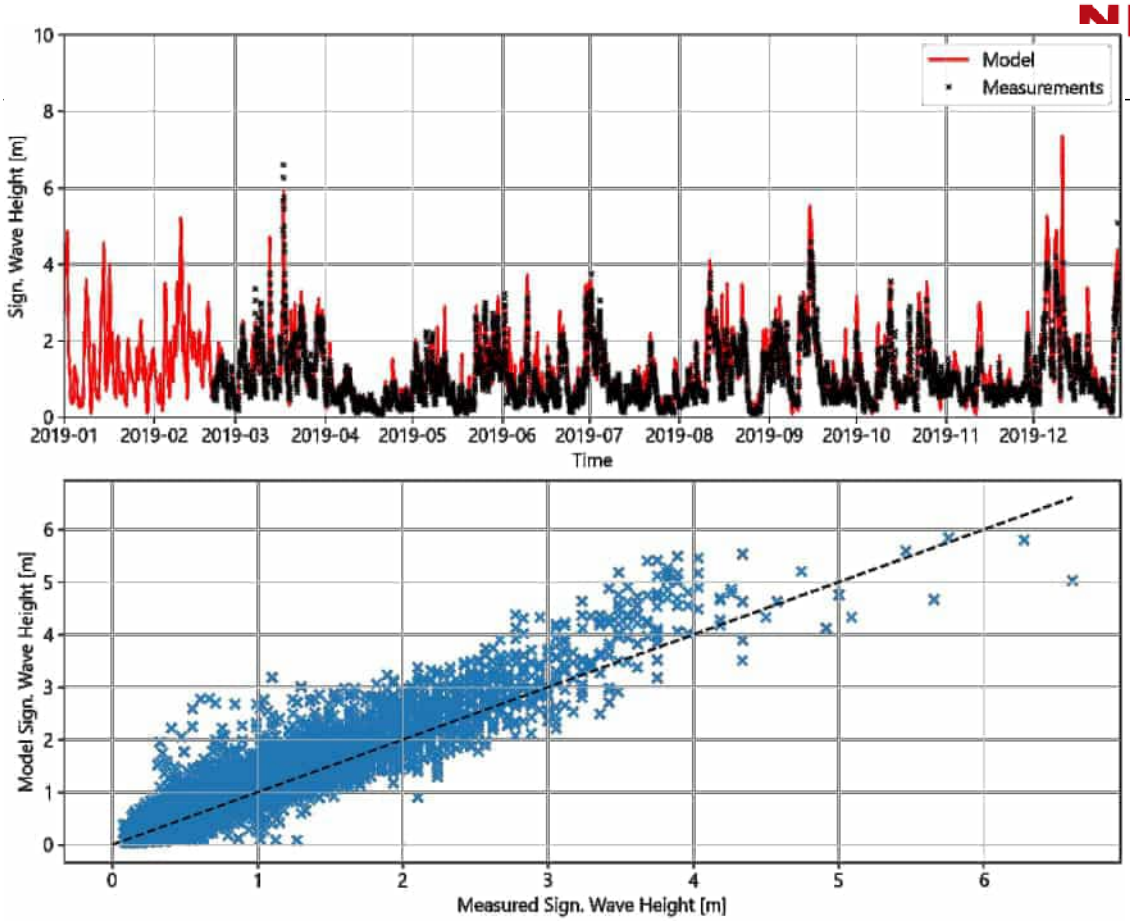
Appendix C: Calibration of significant wave height



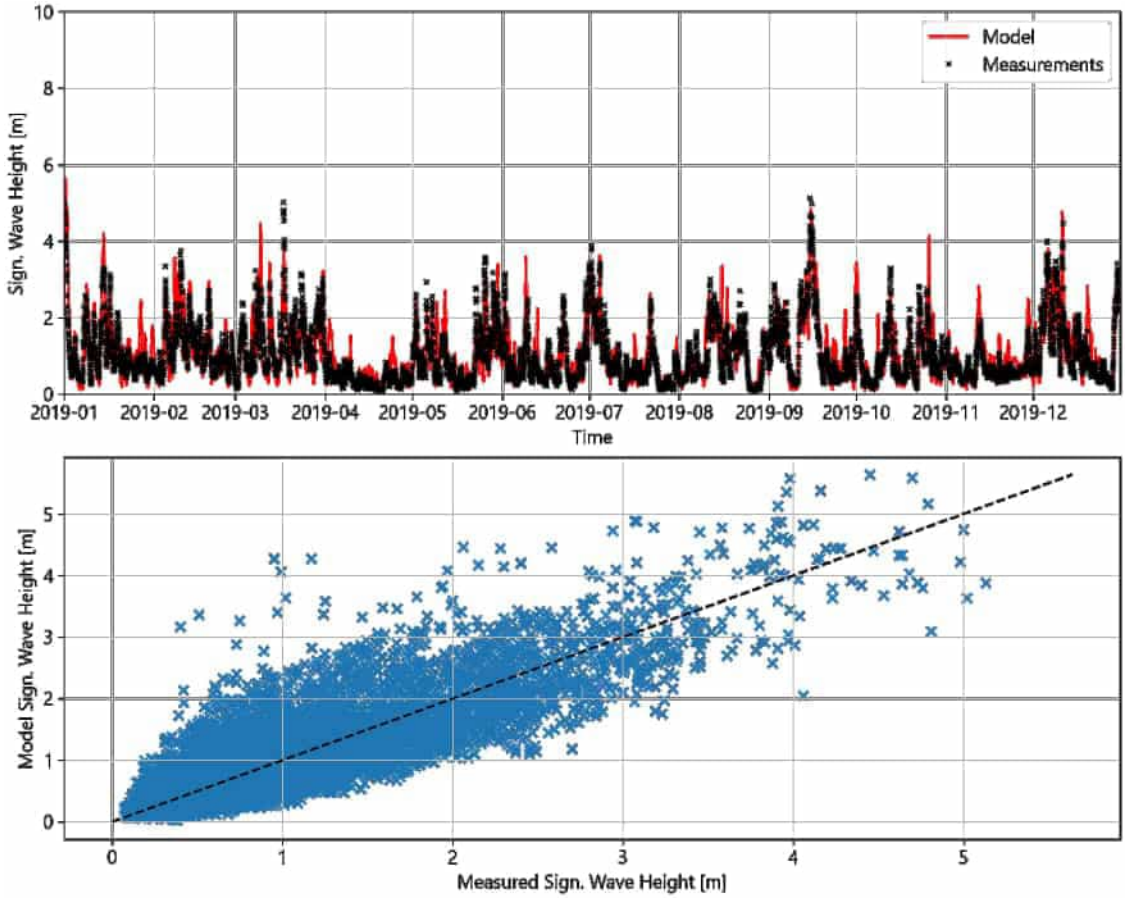
Arkona_Basin_30T: 2019



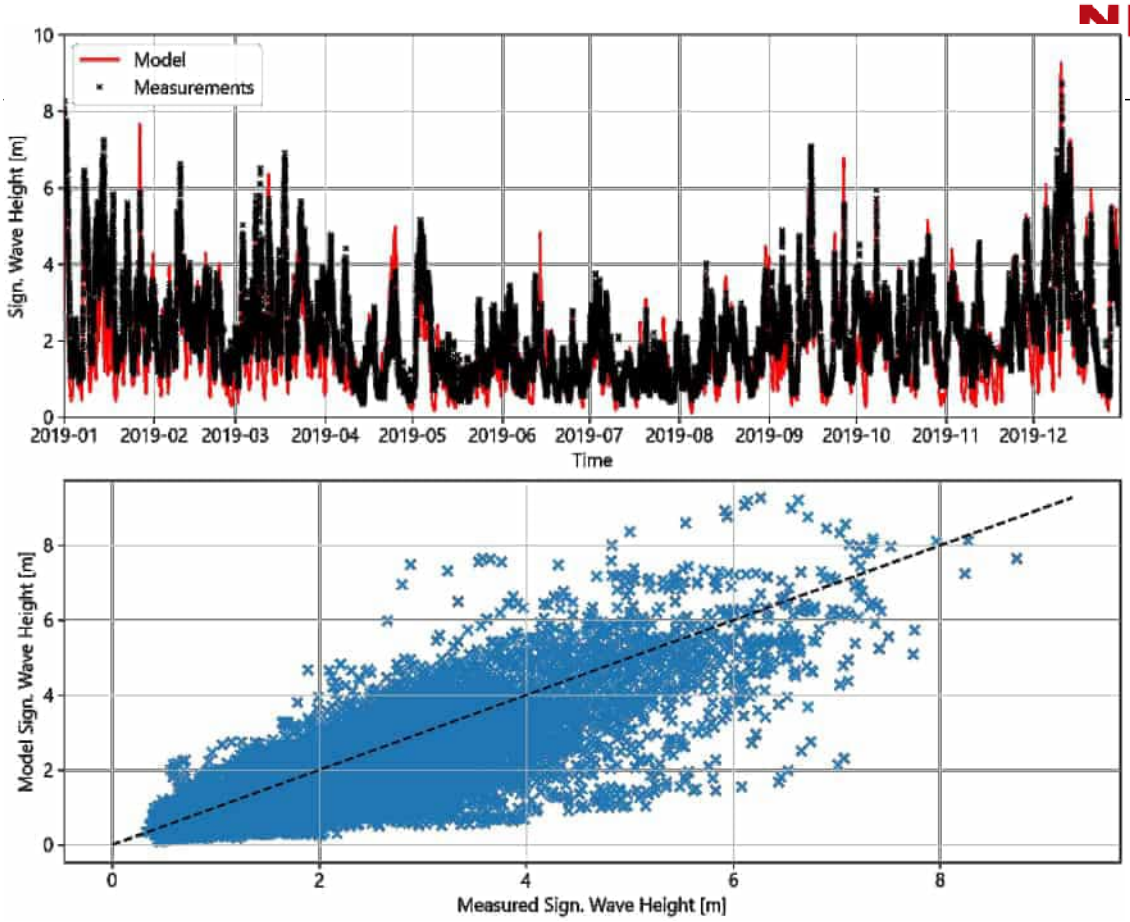
BO_TS_MO_BrofjordenWR: 2019



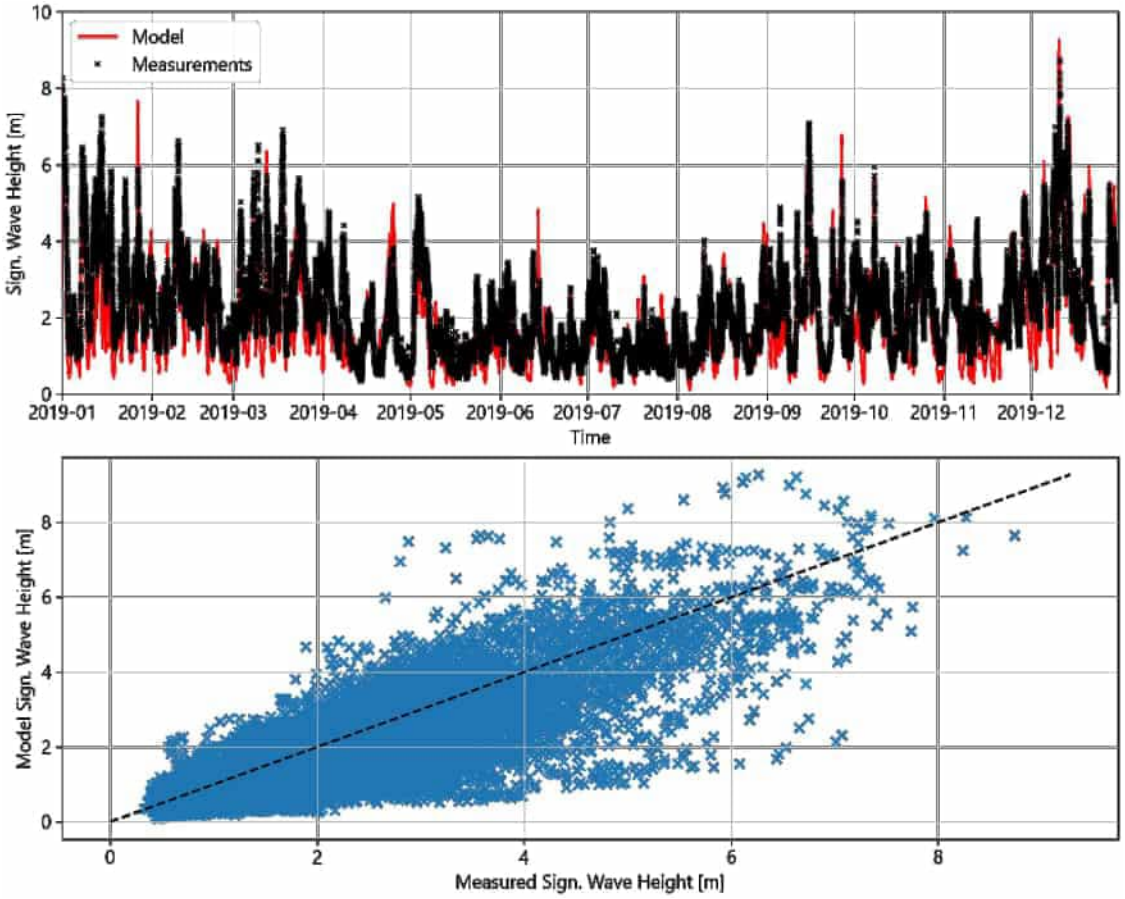
BO_TS_MO_VaderoarnaWR: 2019



BROFJORDEN WR BOJ: 2019



Granefeltet: 2019



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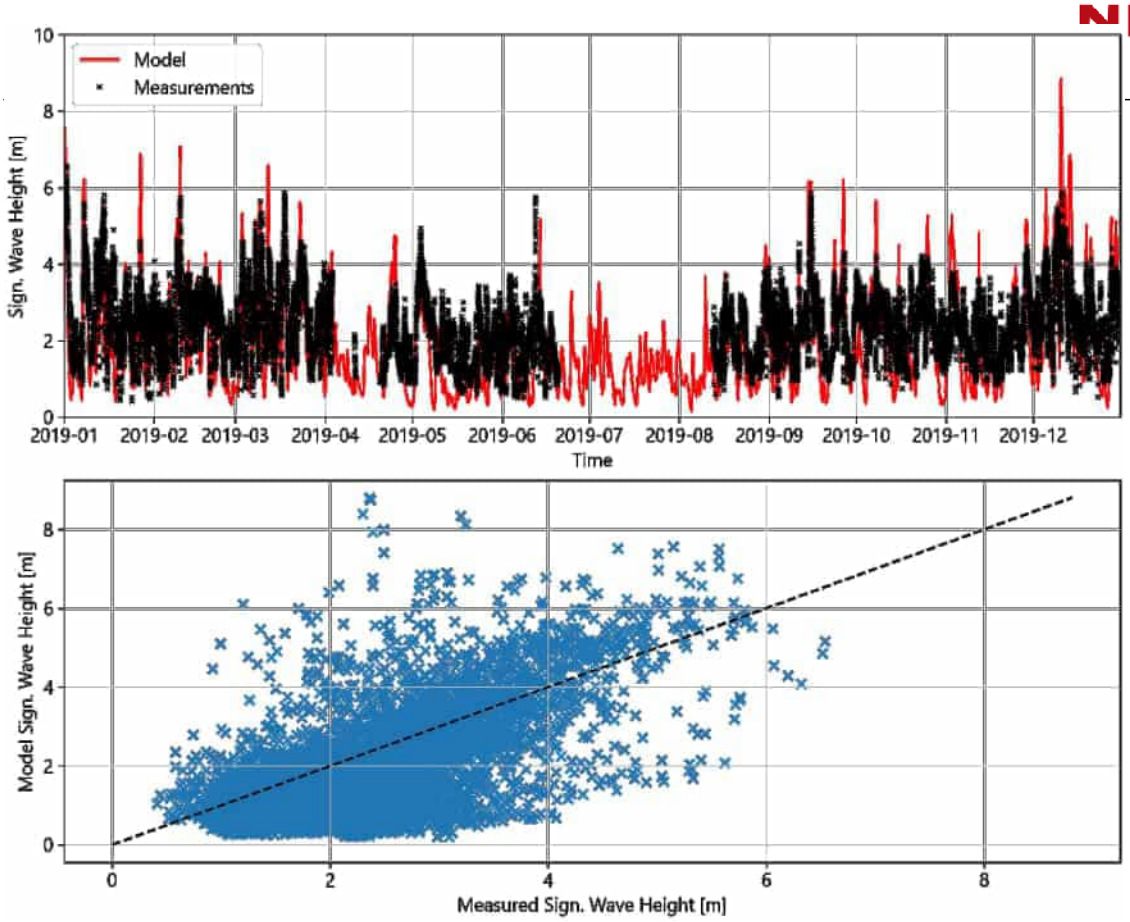

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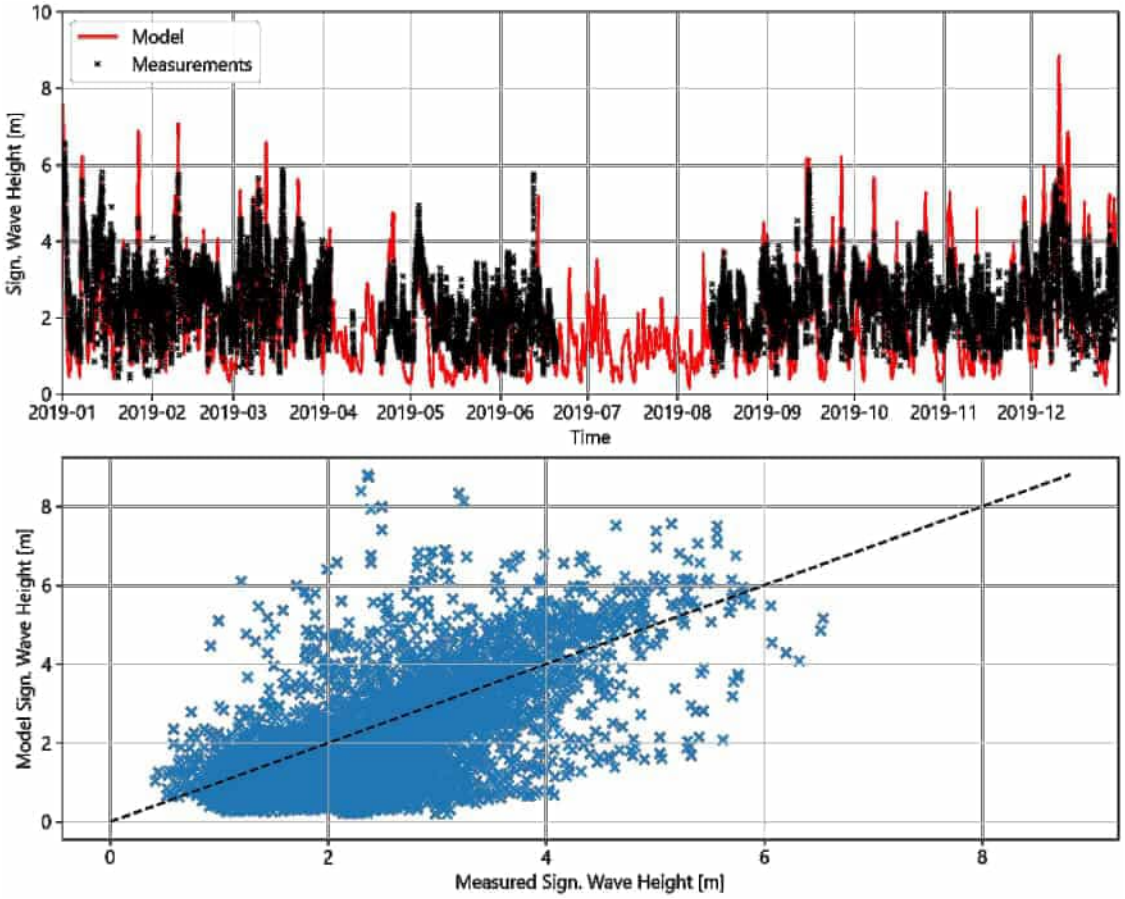
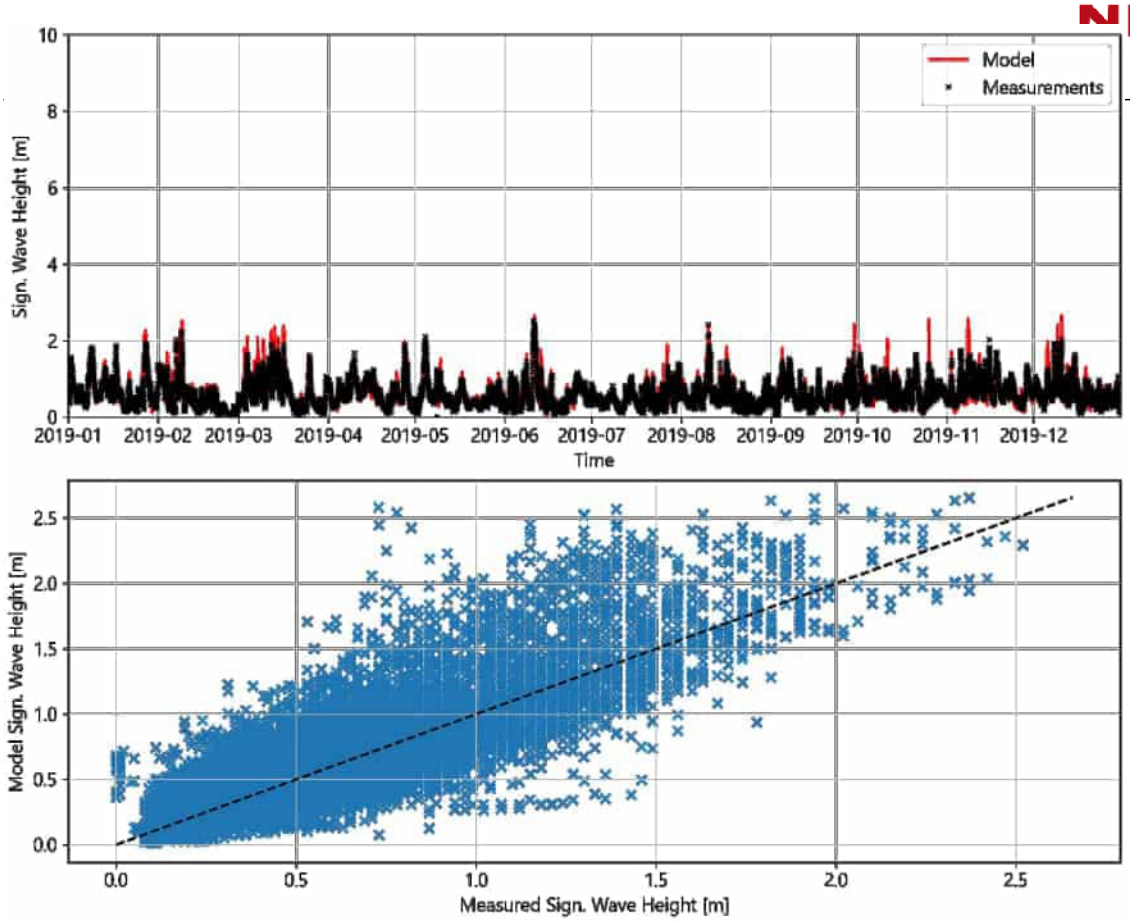


Gudrunfeltet: 2019



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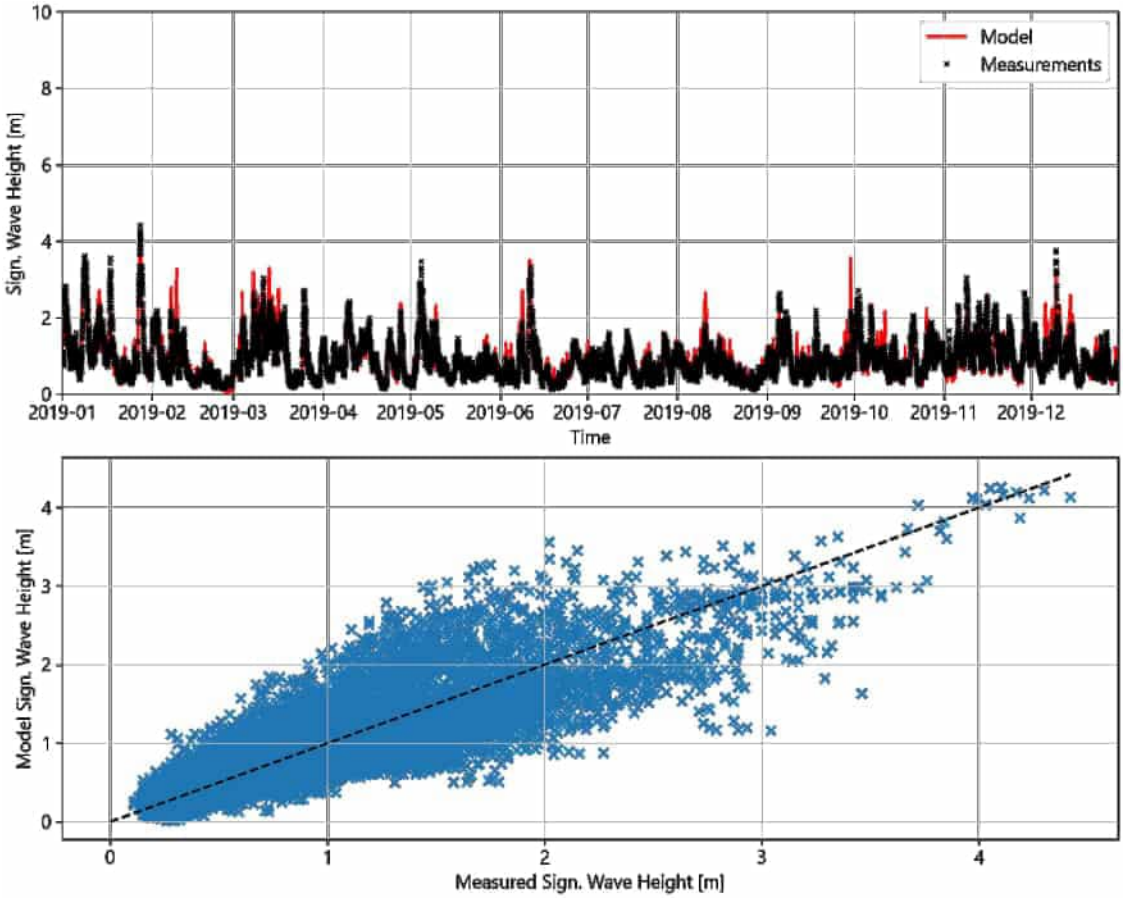

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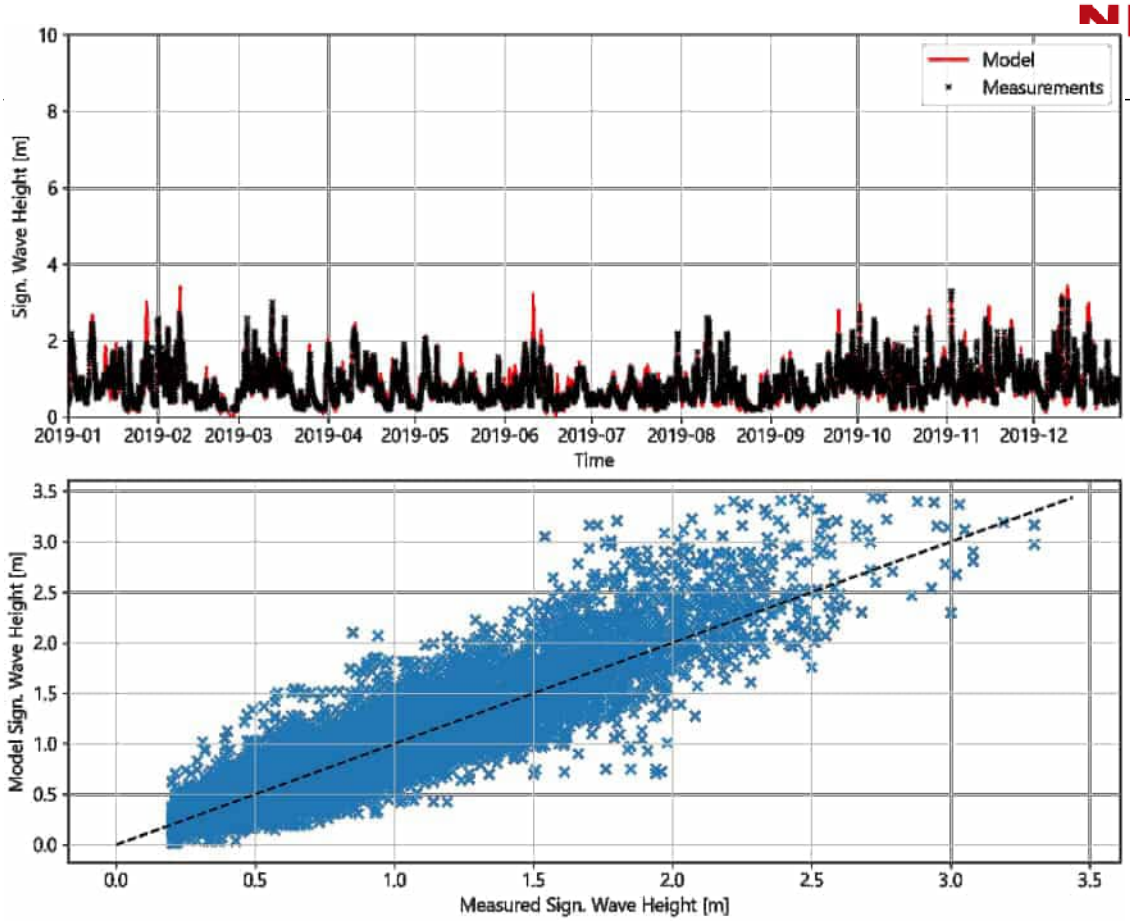

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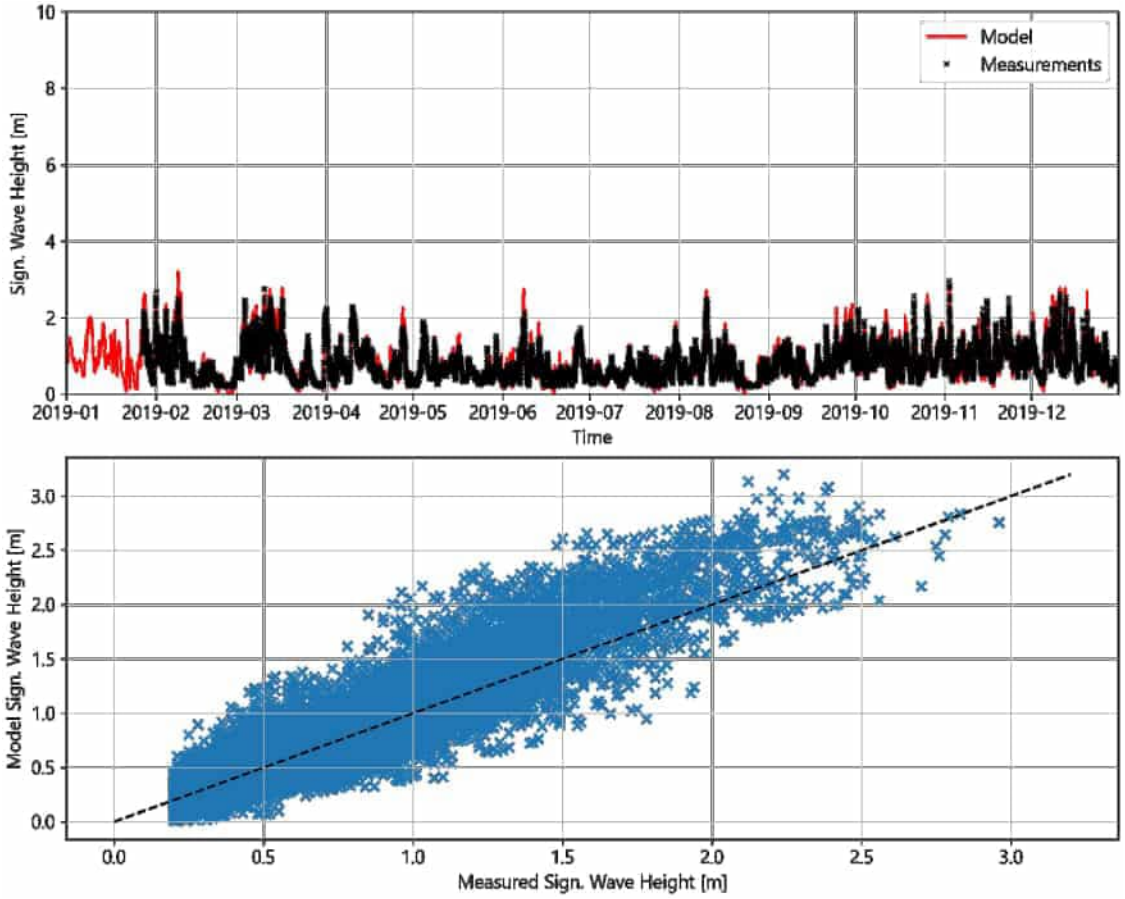

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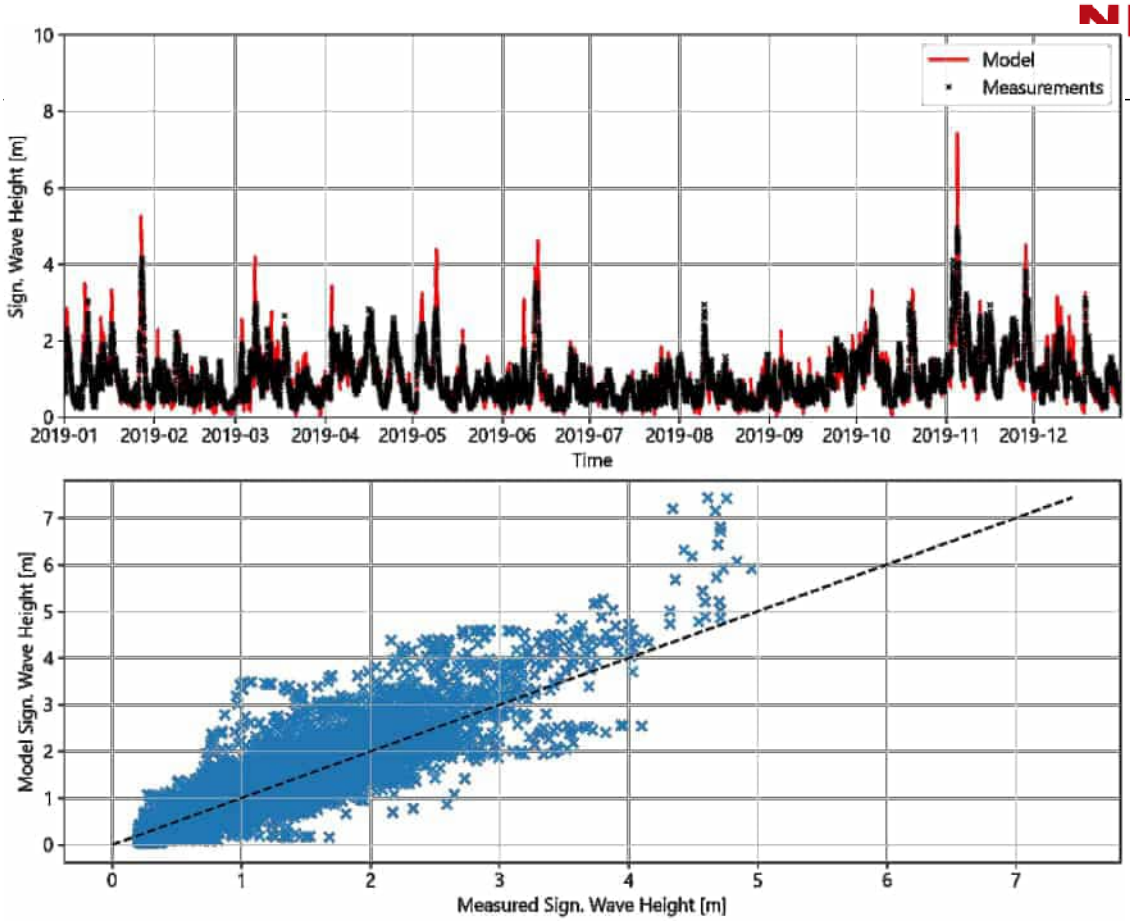

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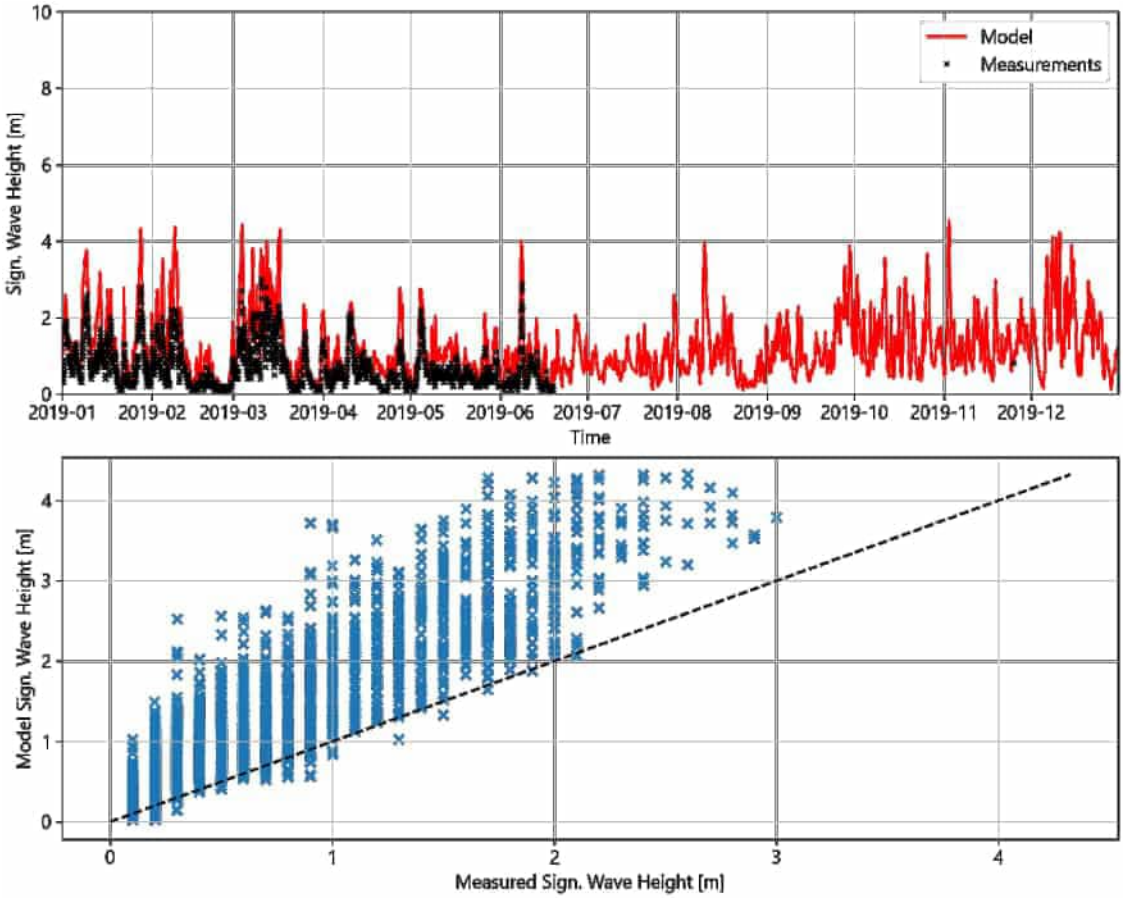

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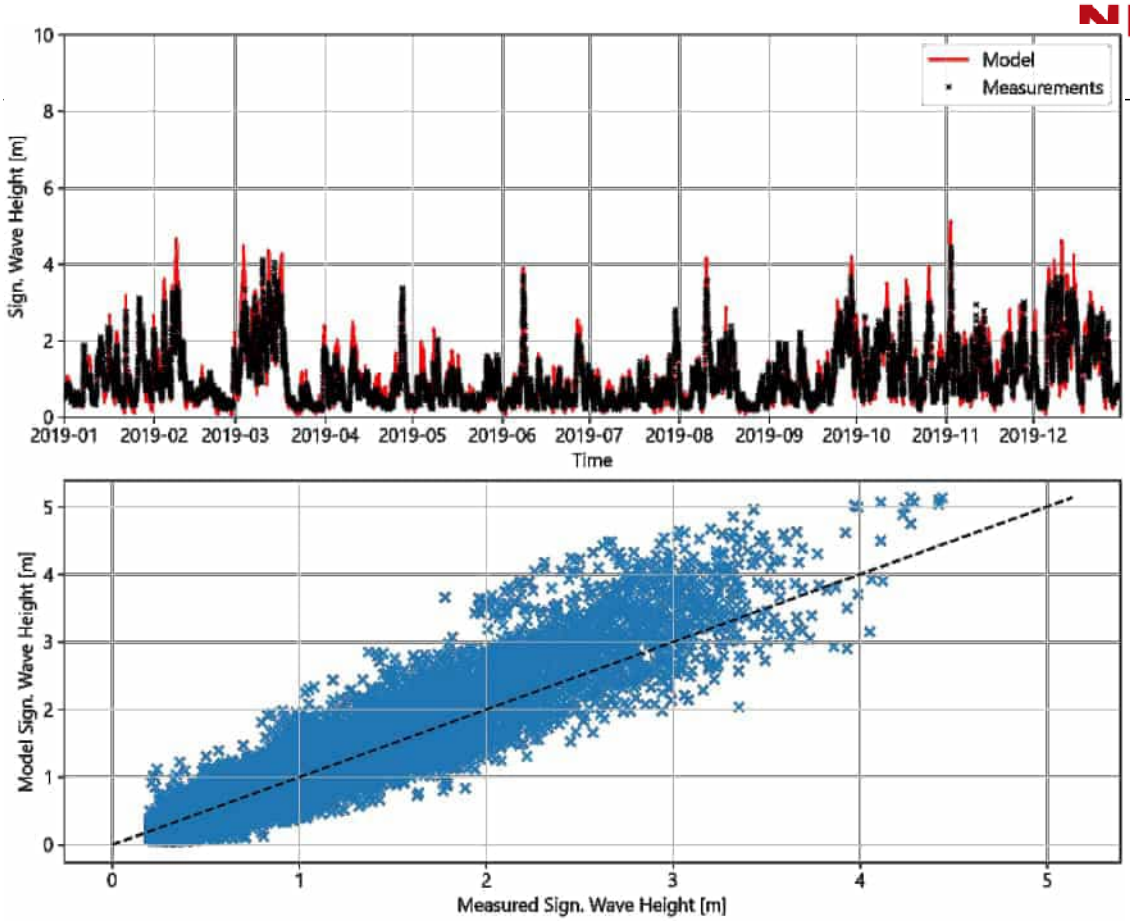

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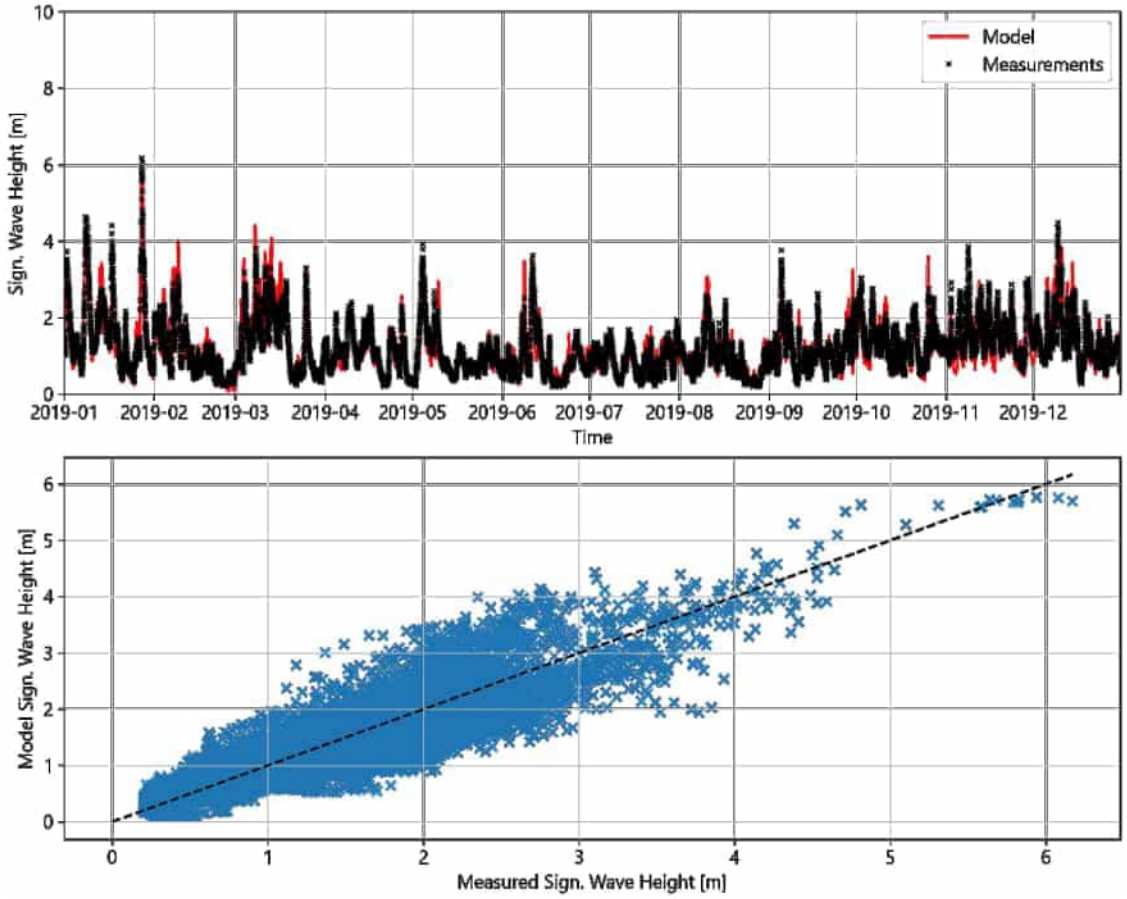

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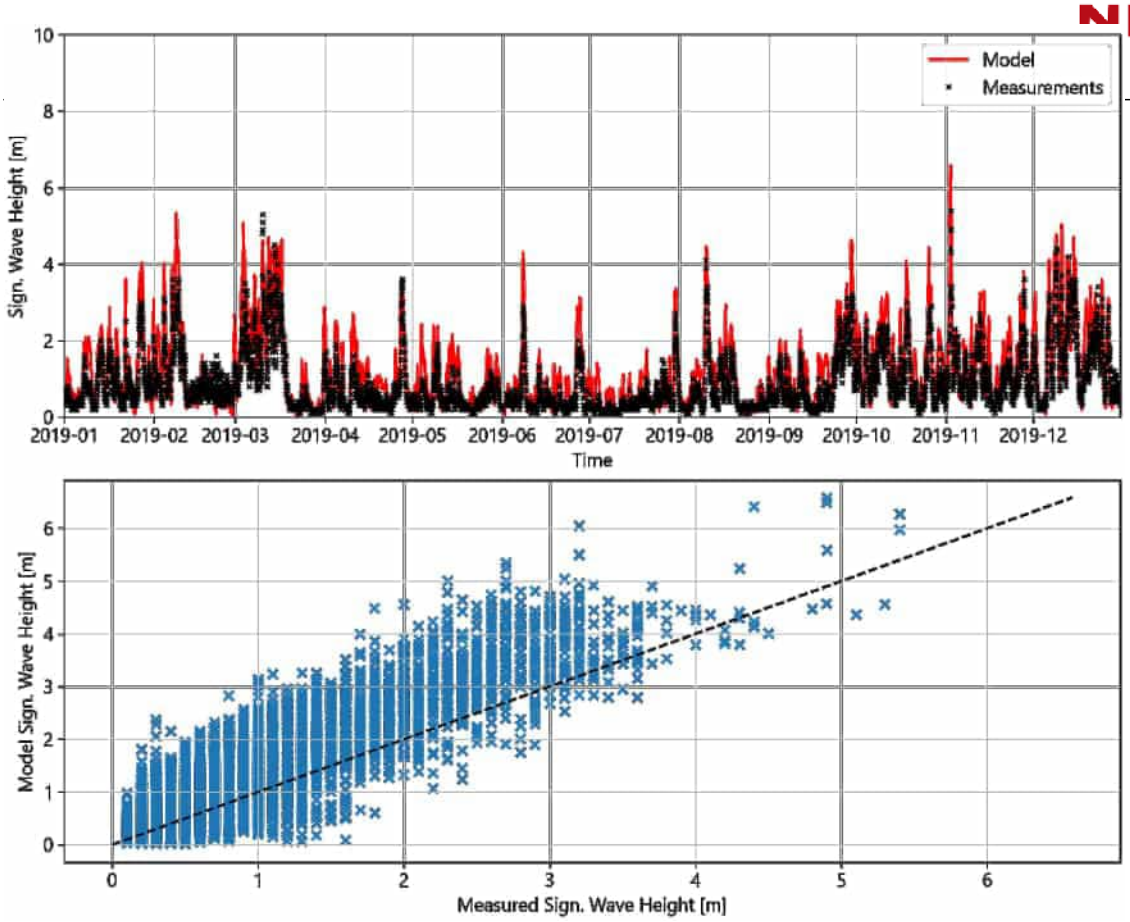

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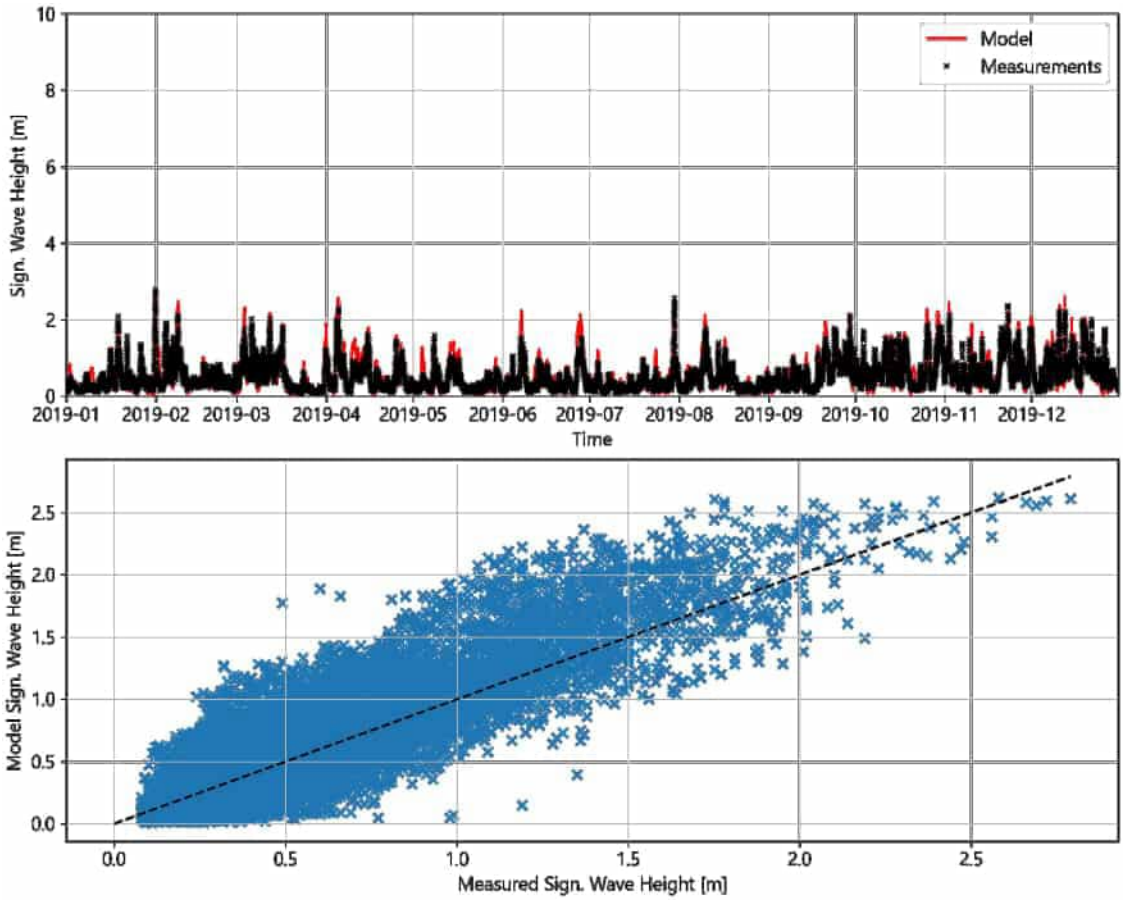

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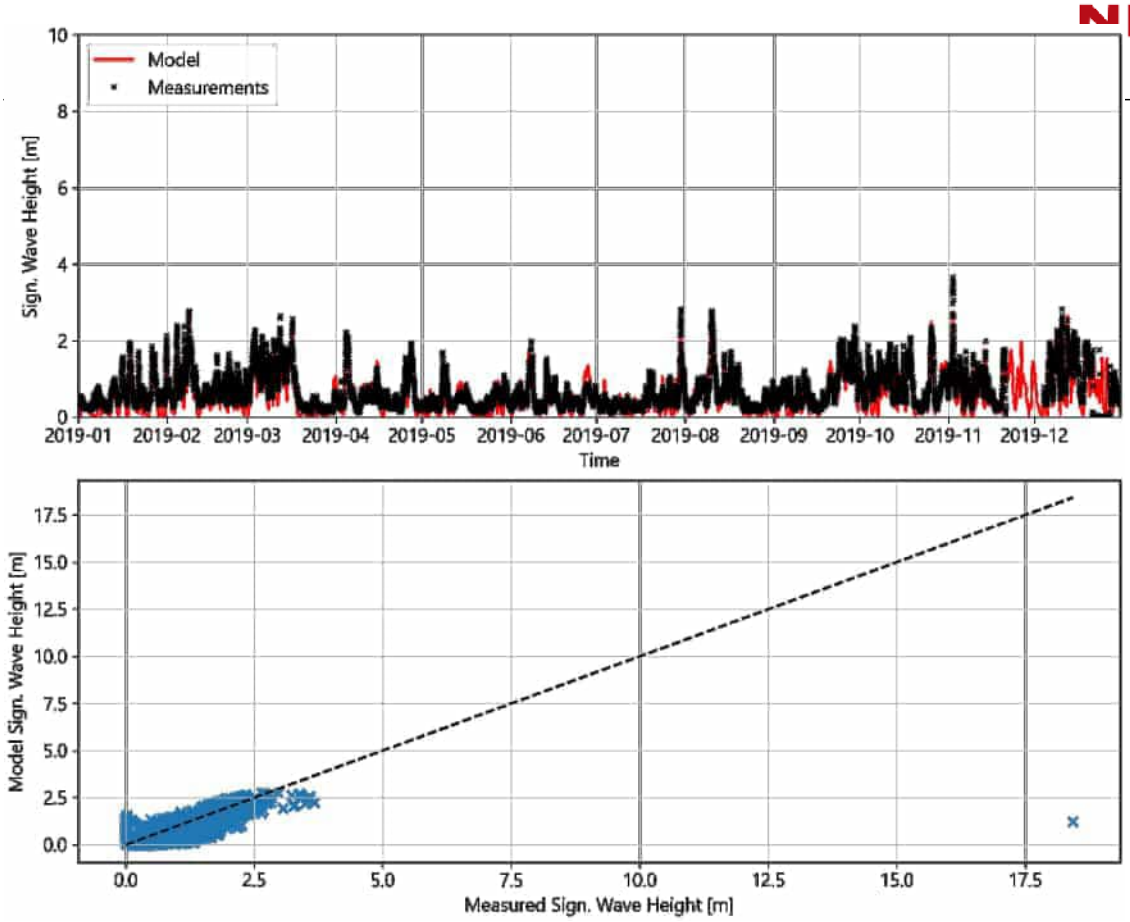

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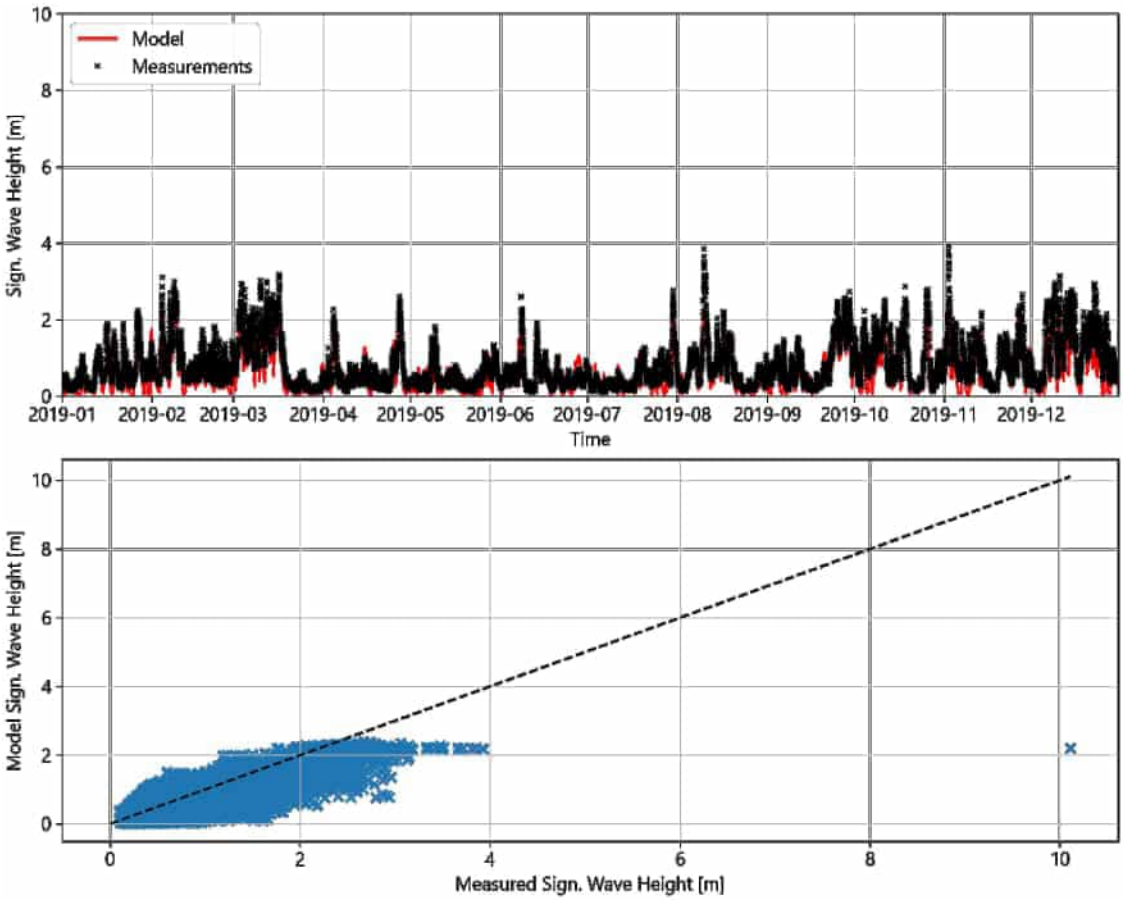

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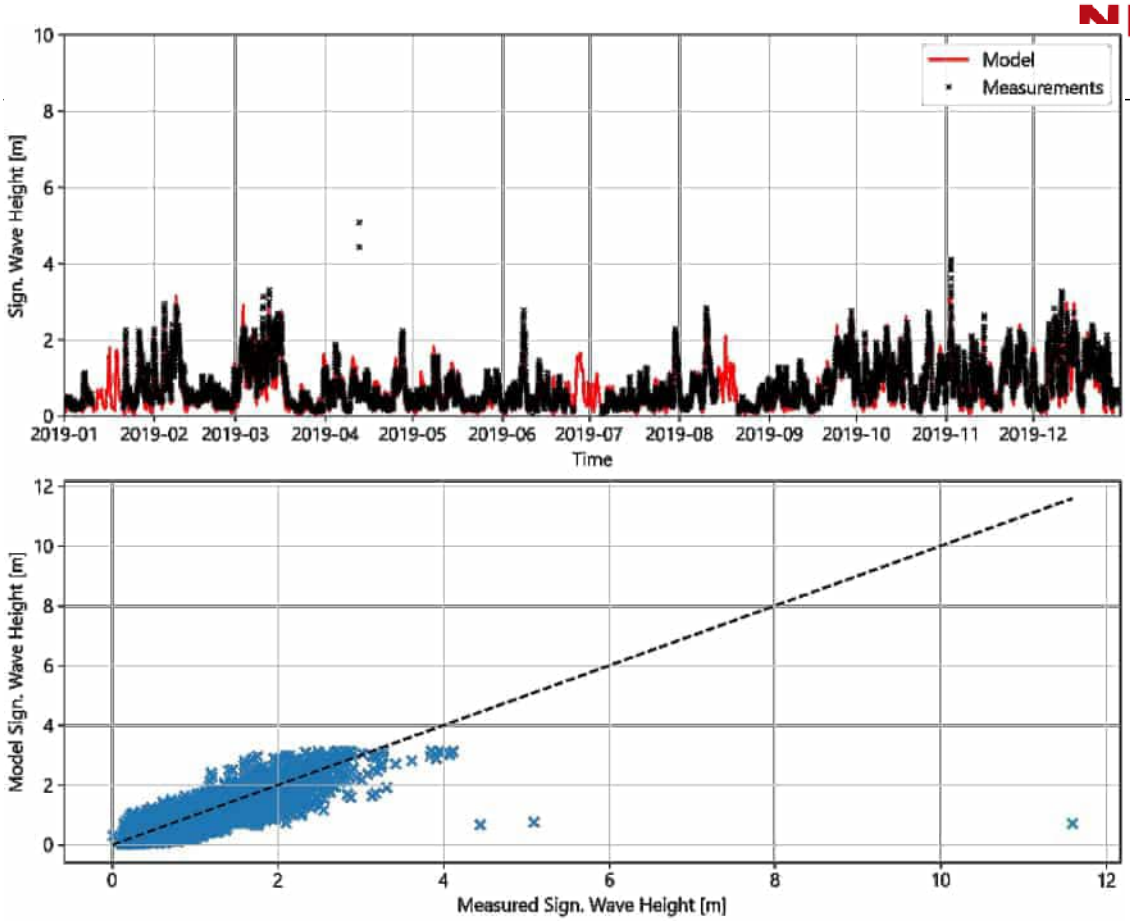

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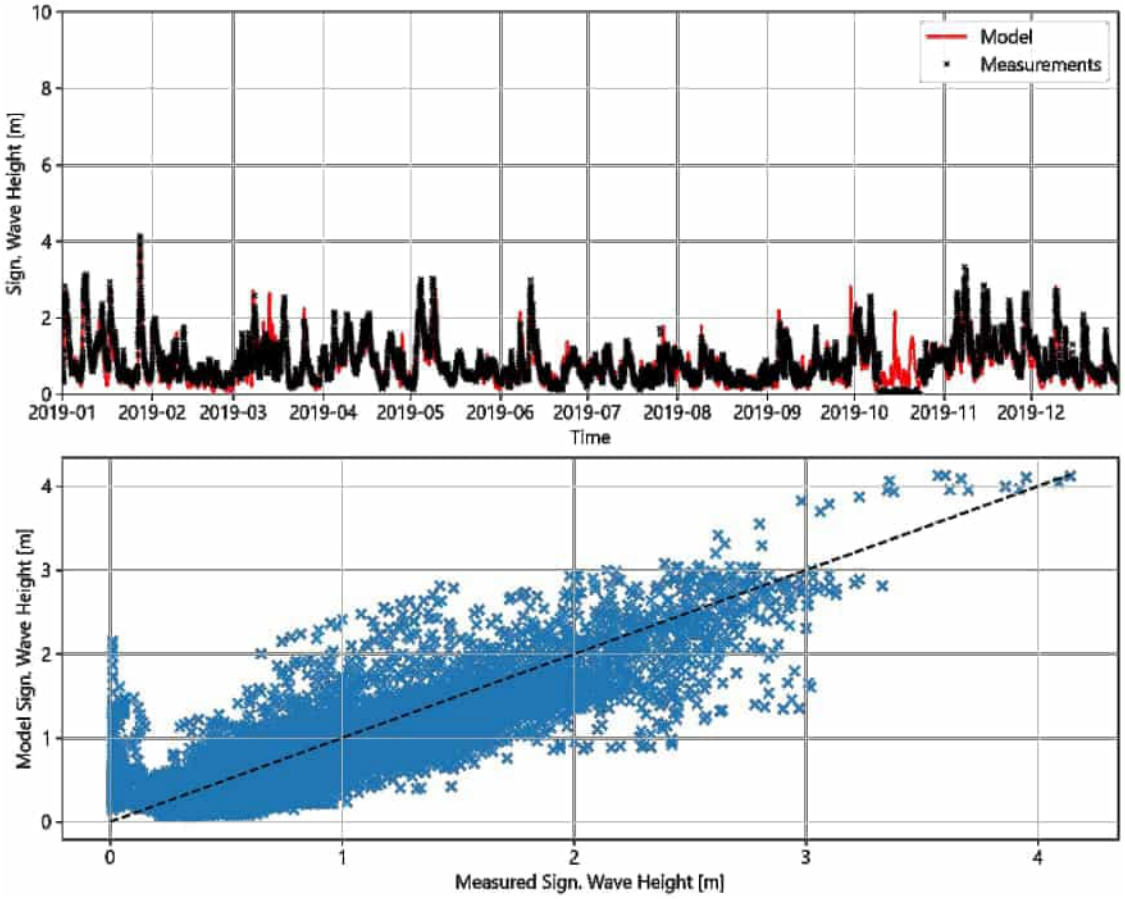

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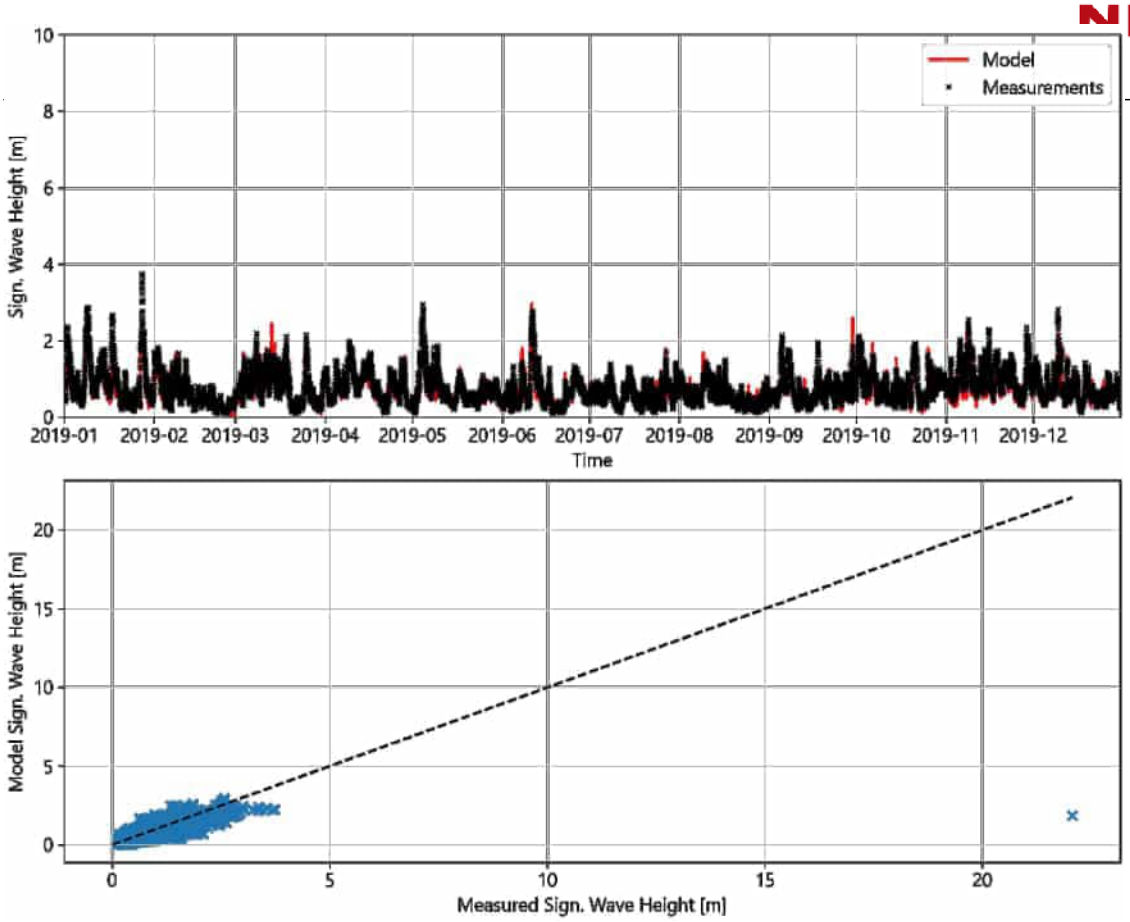

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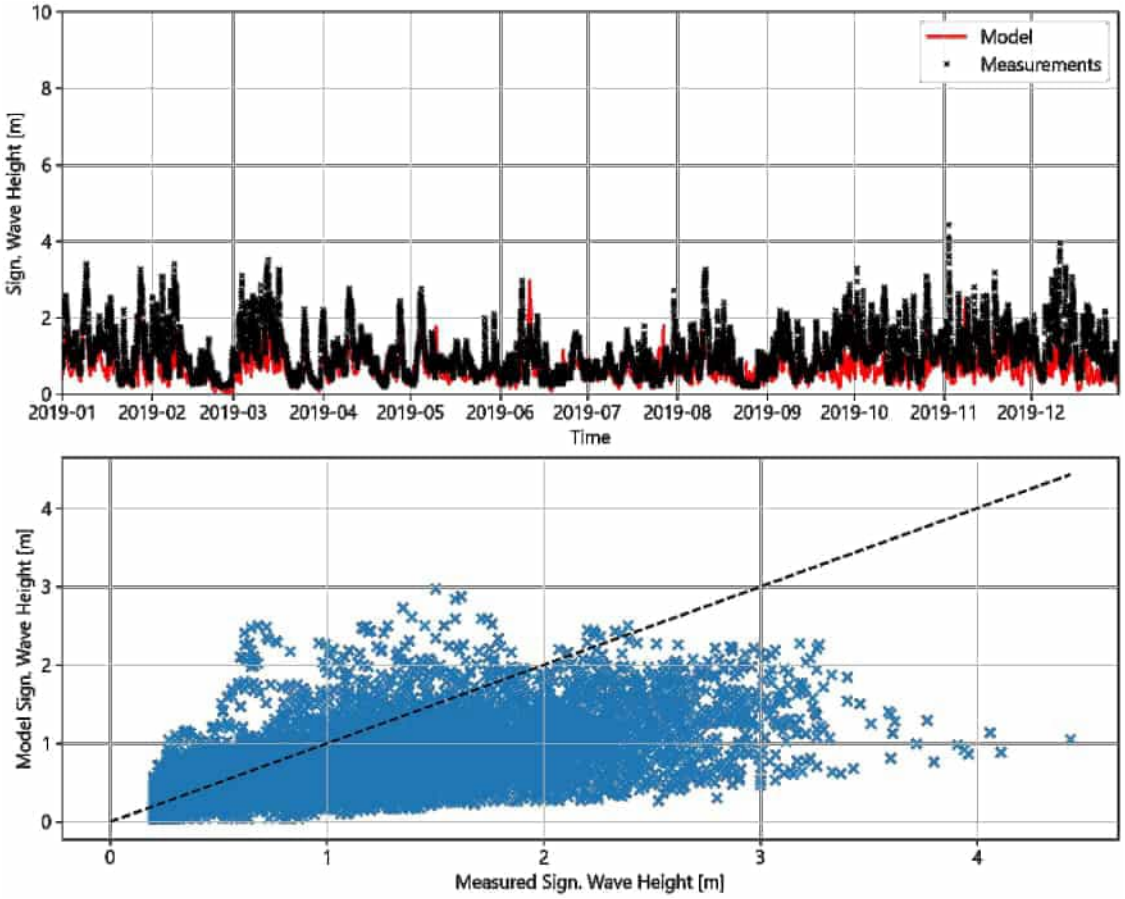

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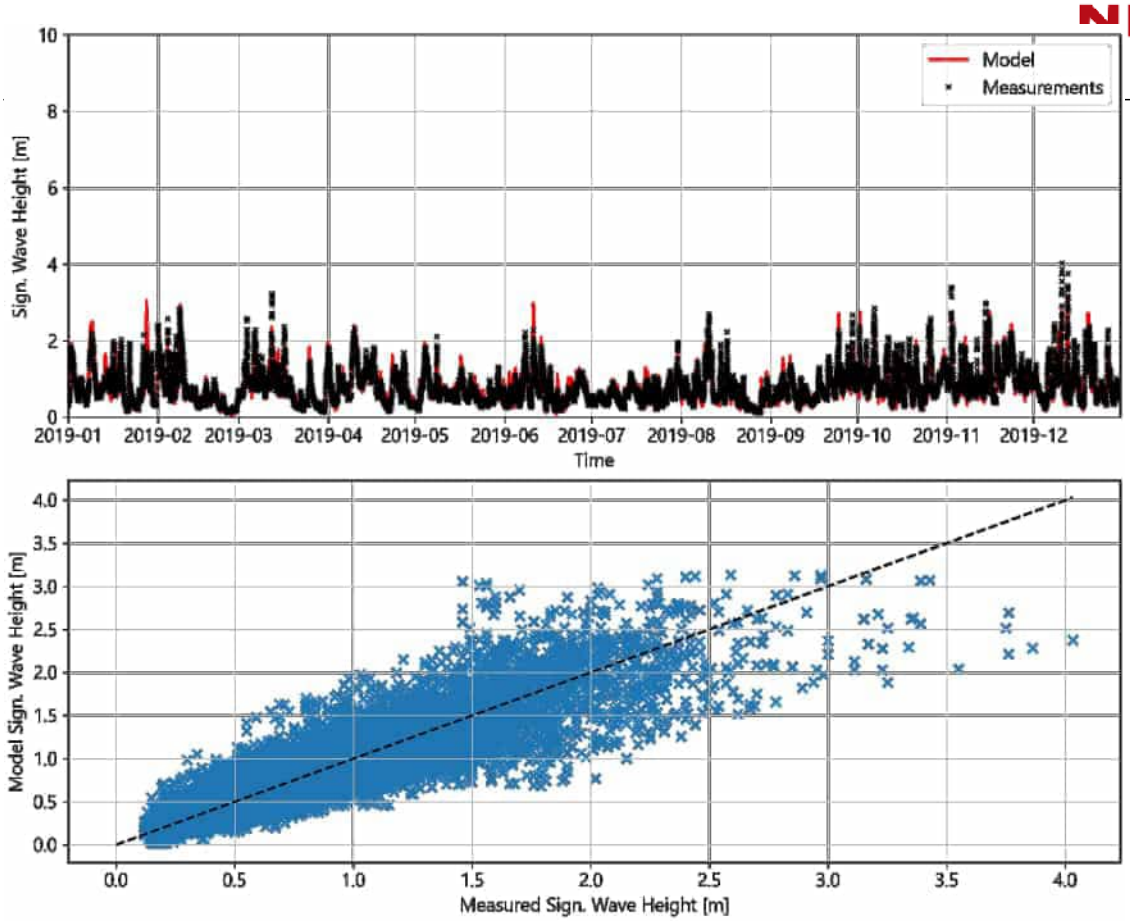

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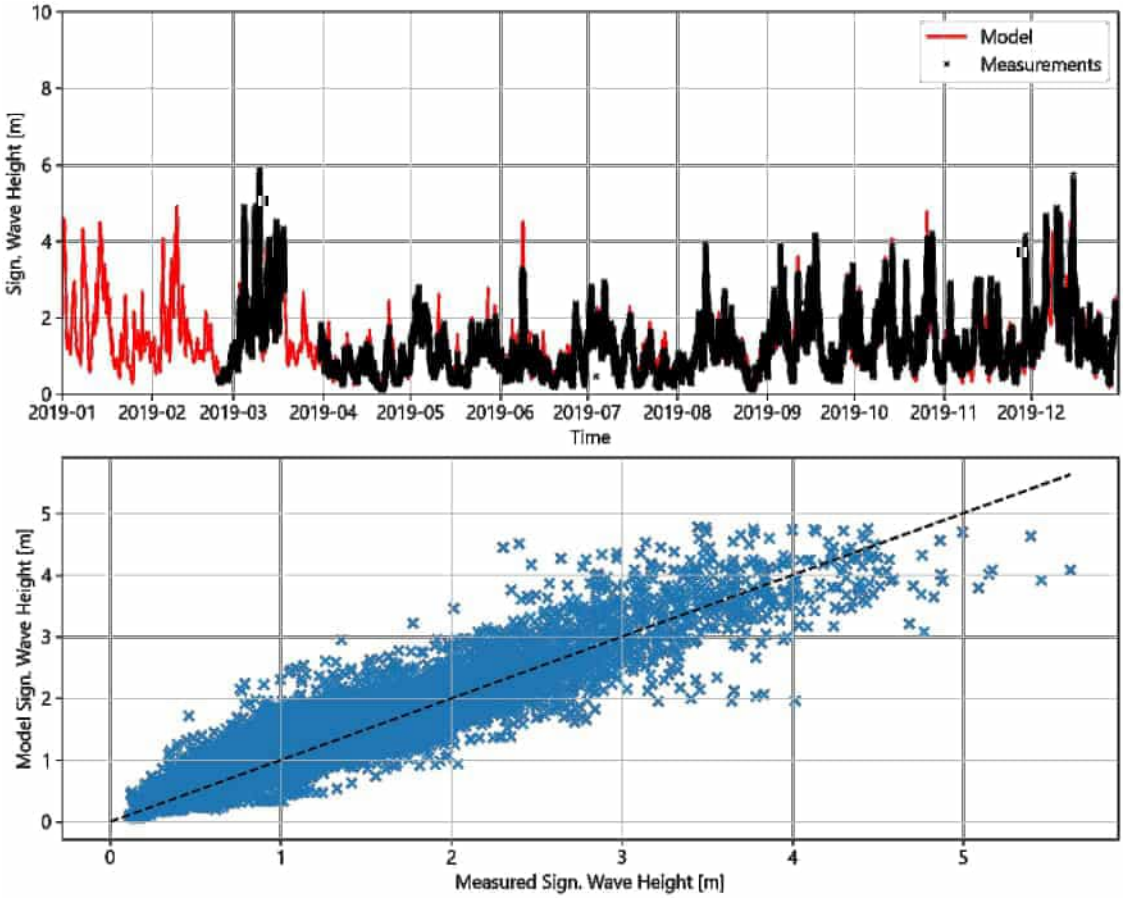

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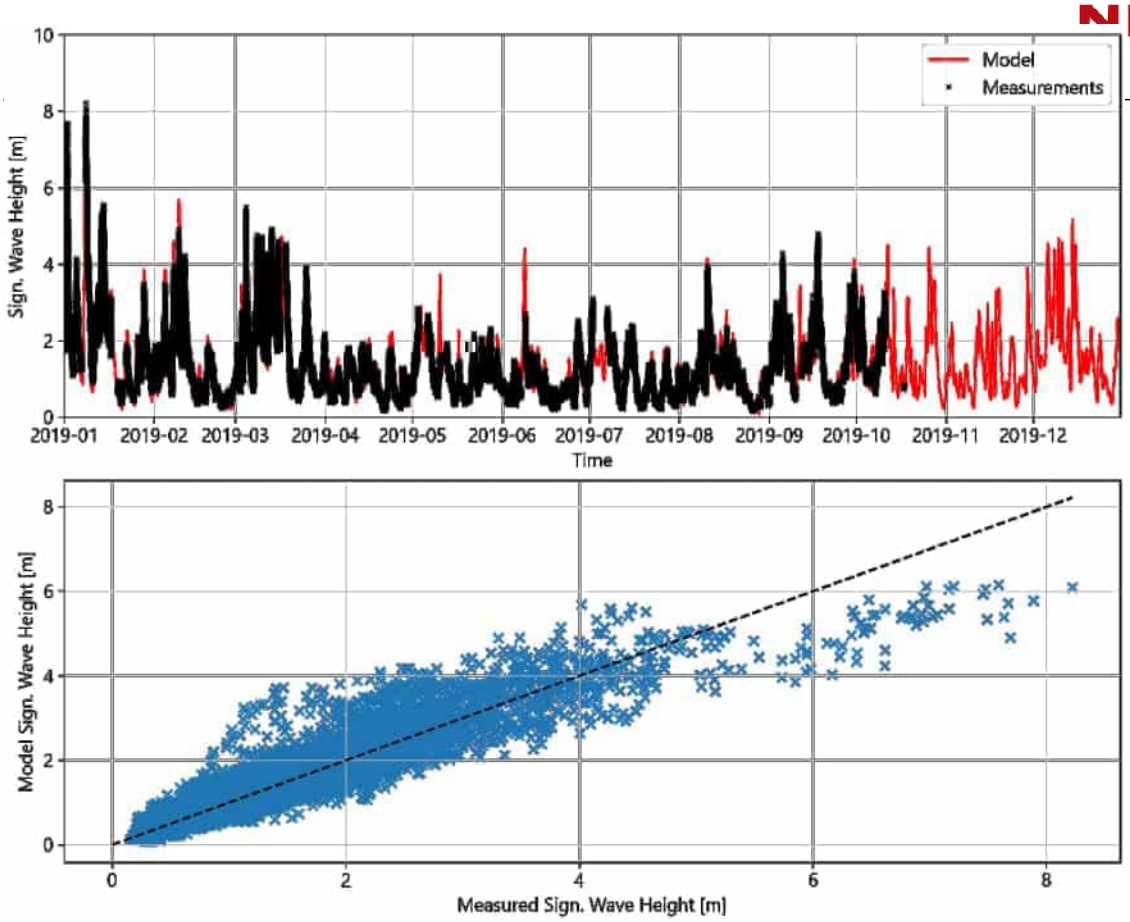

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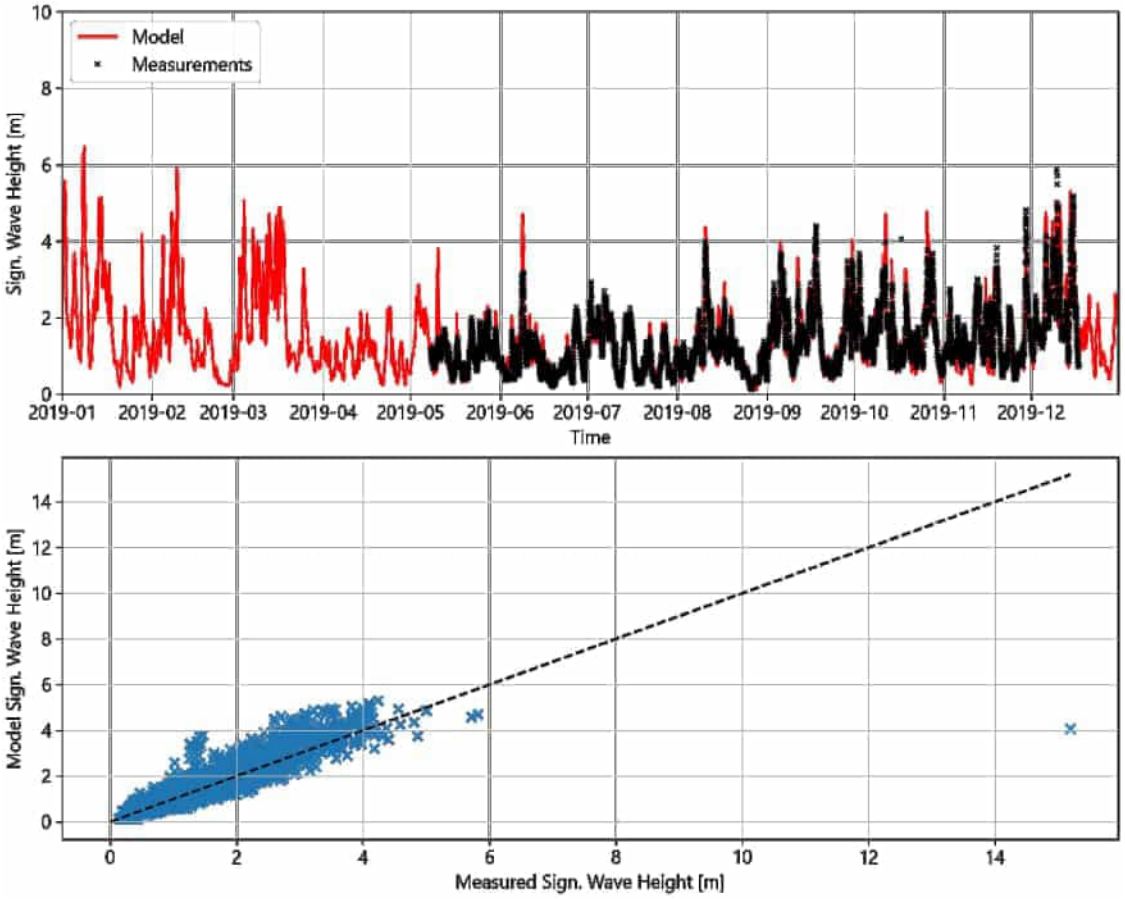

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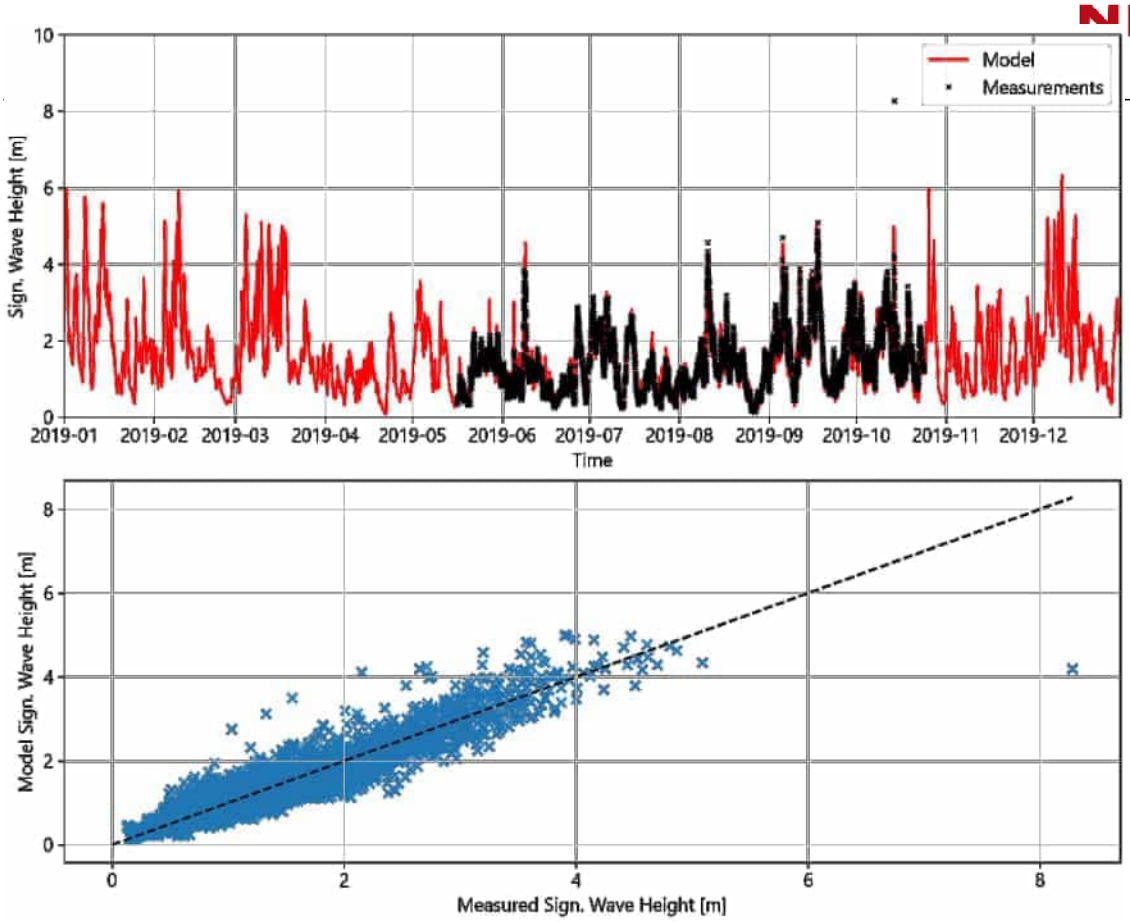

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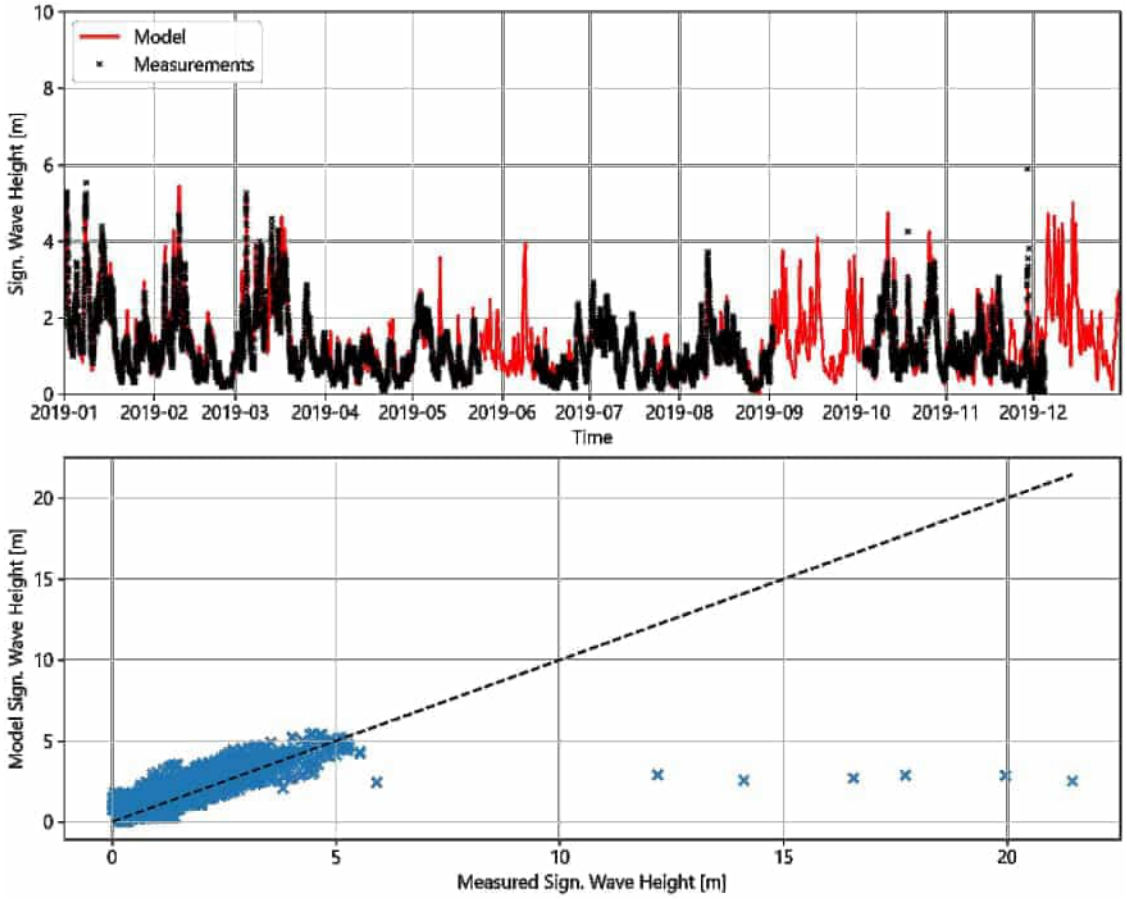

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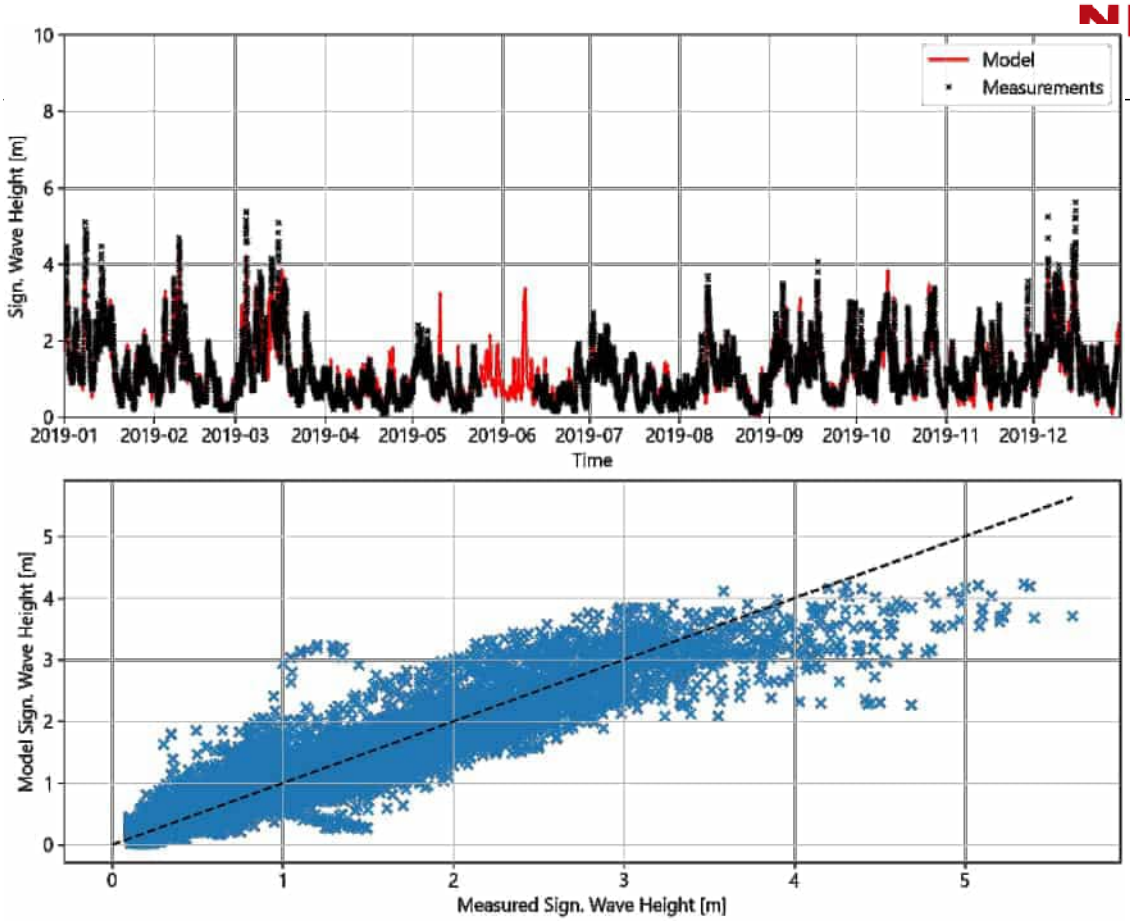

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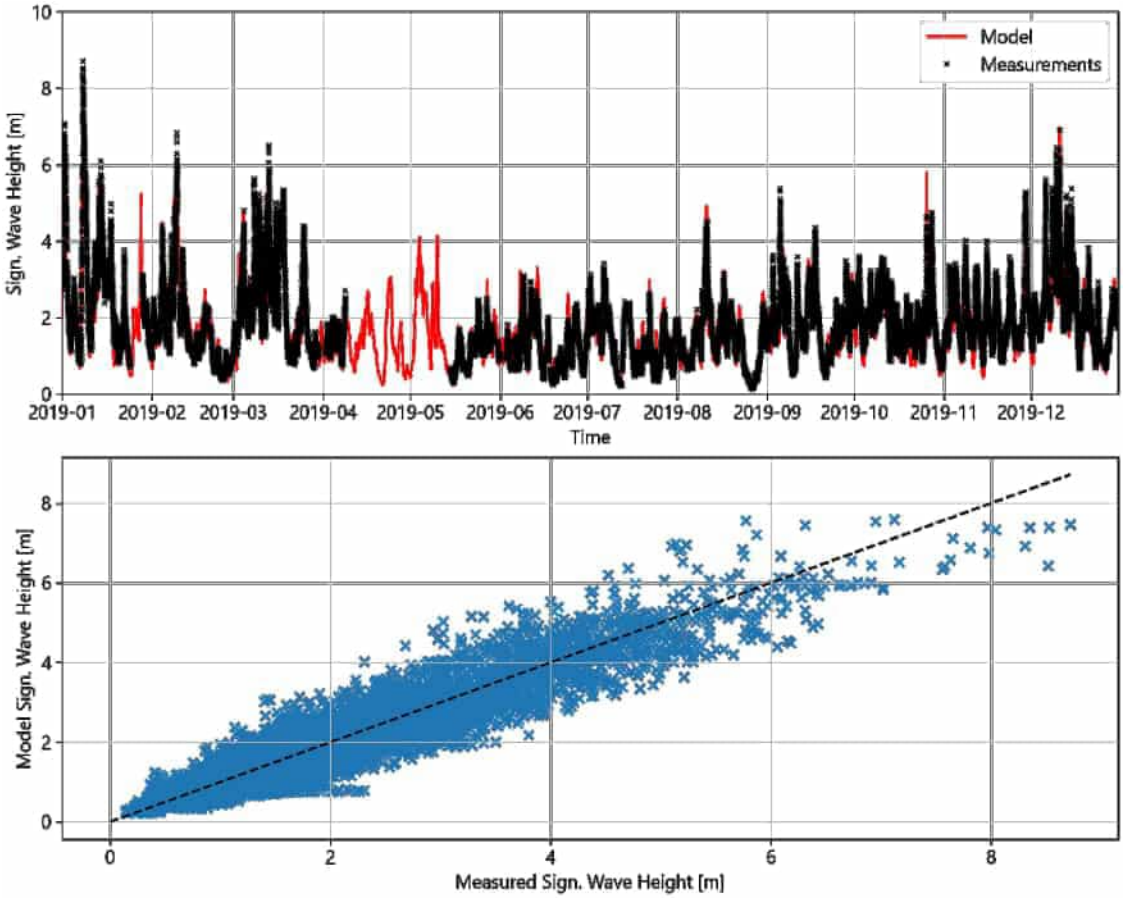

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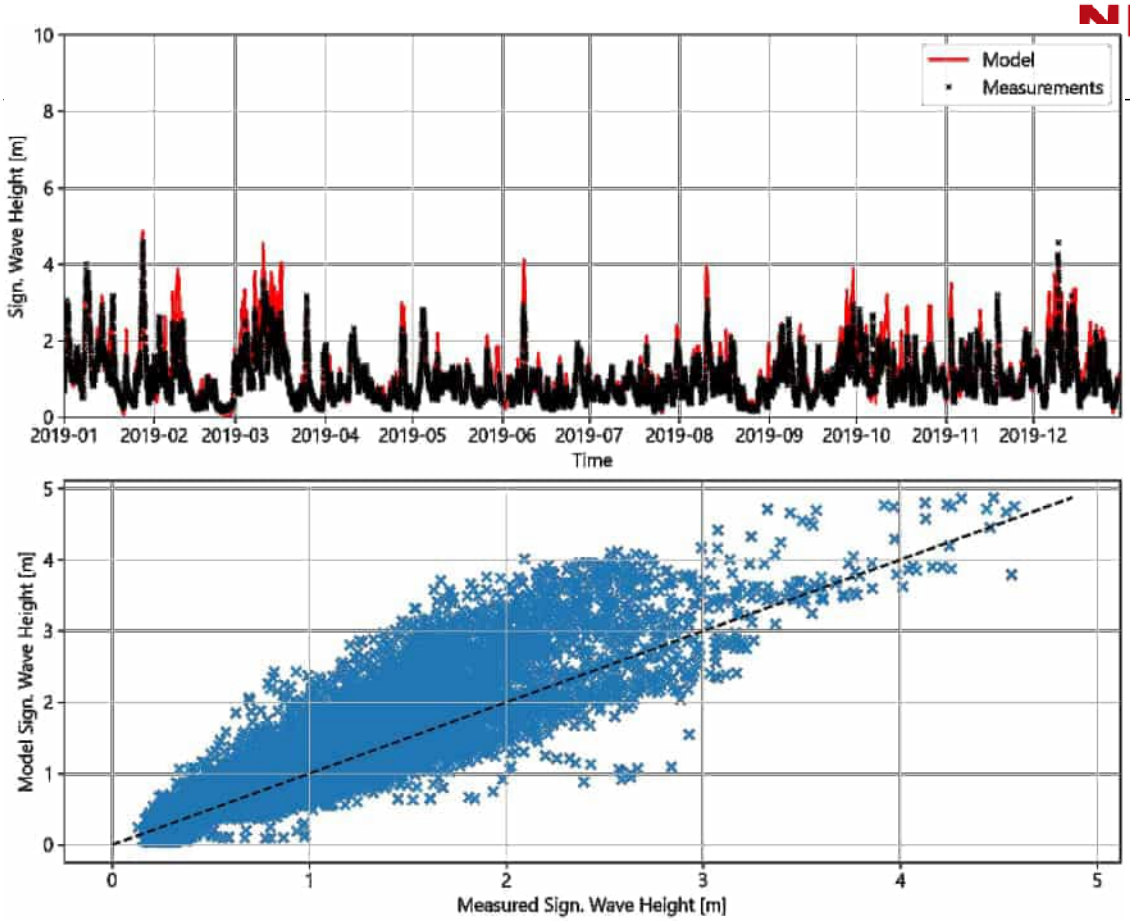

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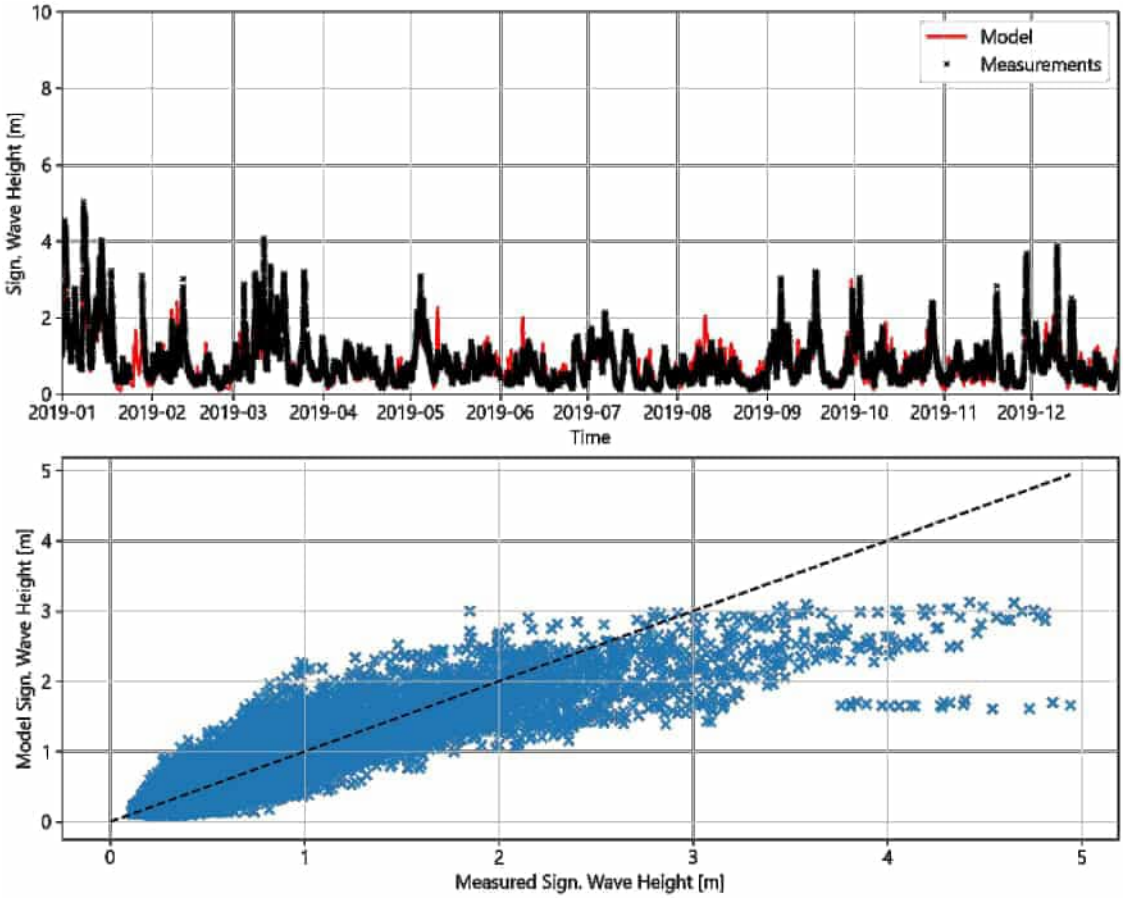

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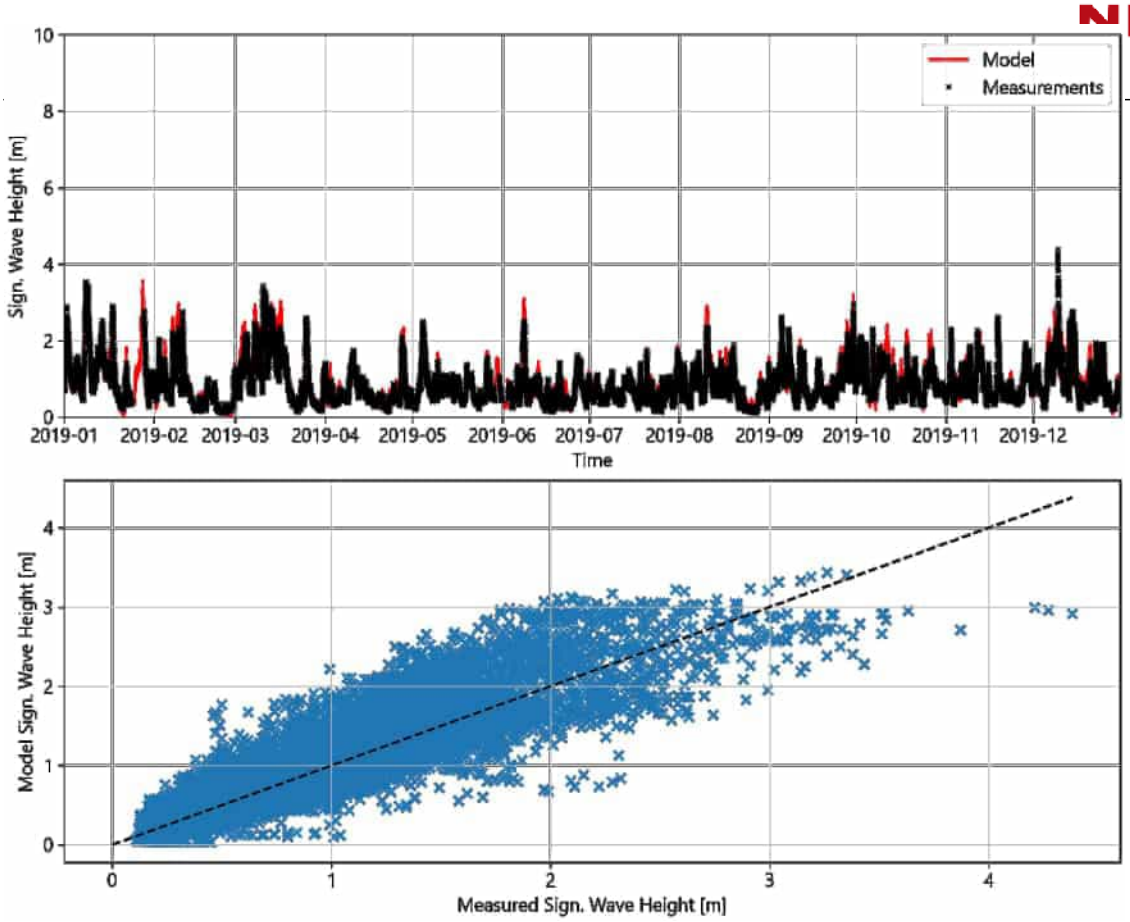

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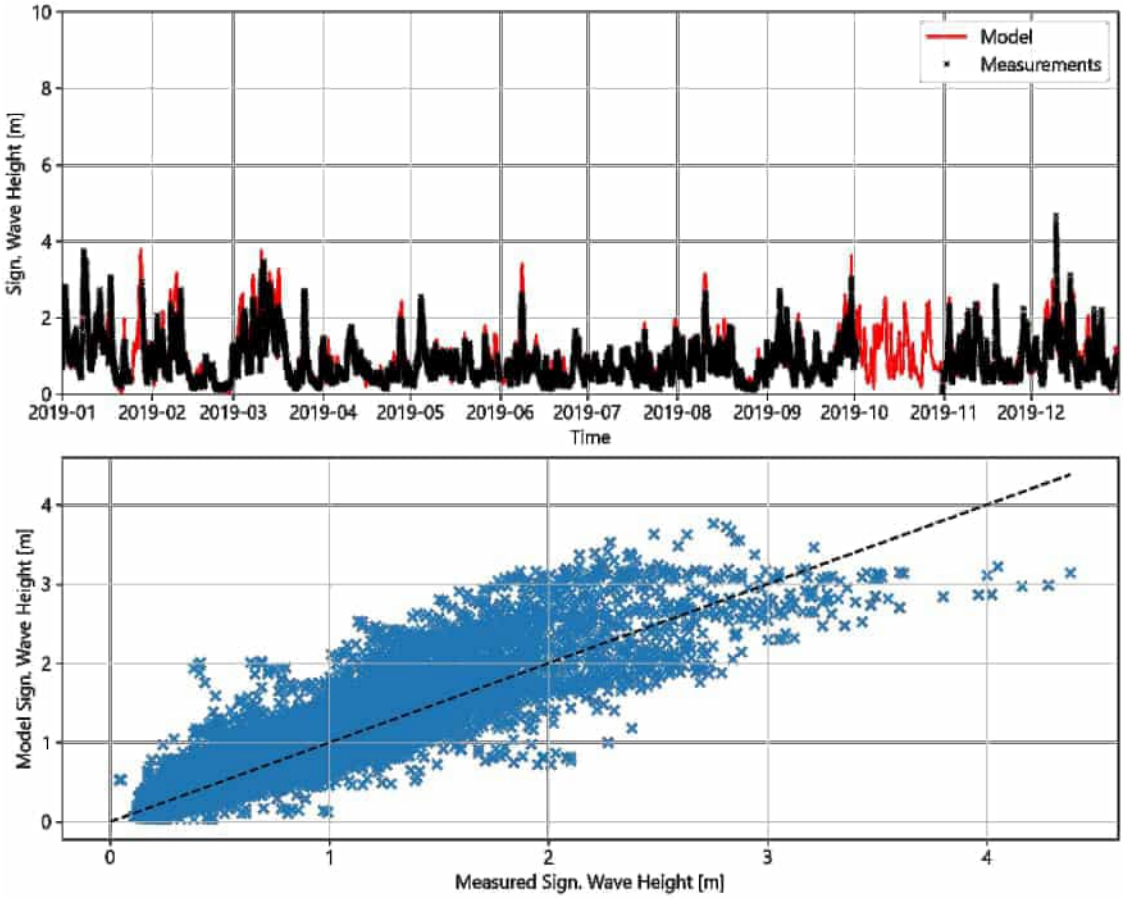

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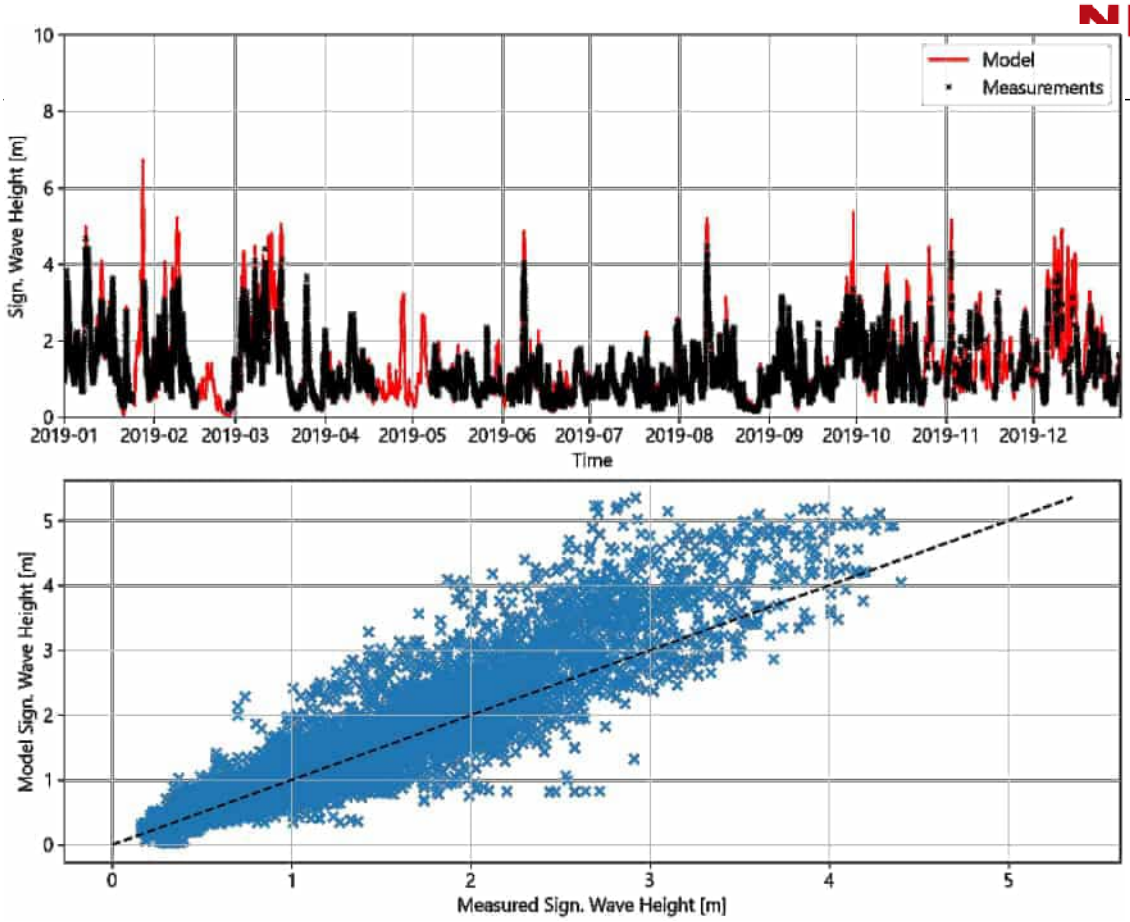
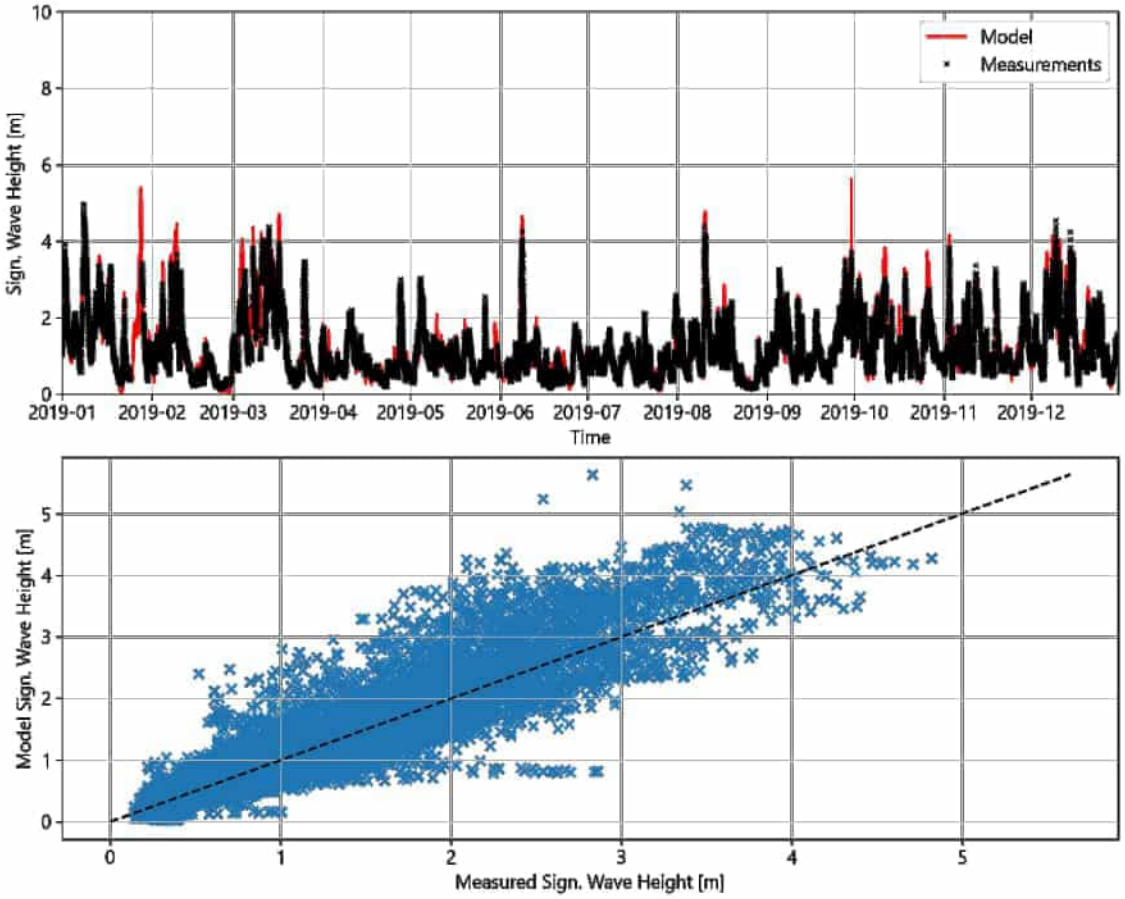
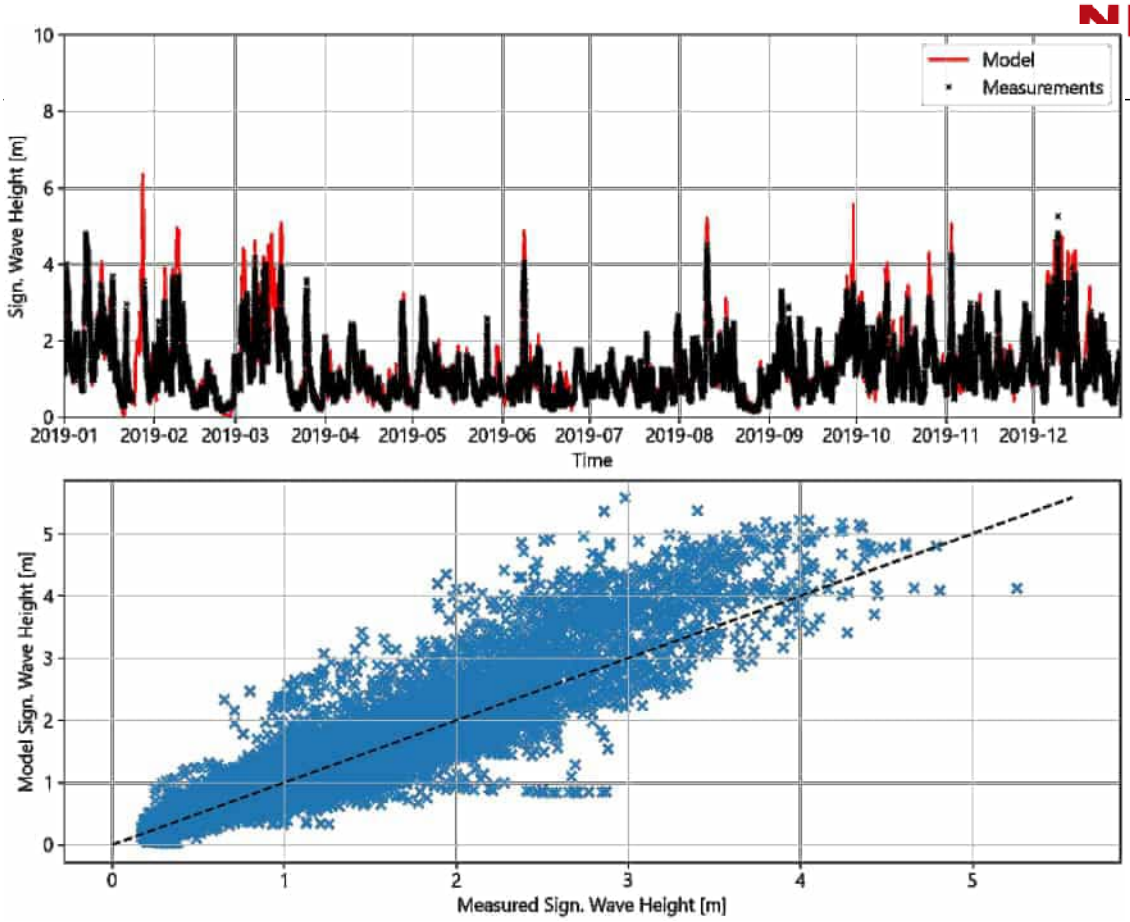


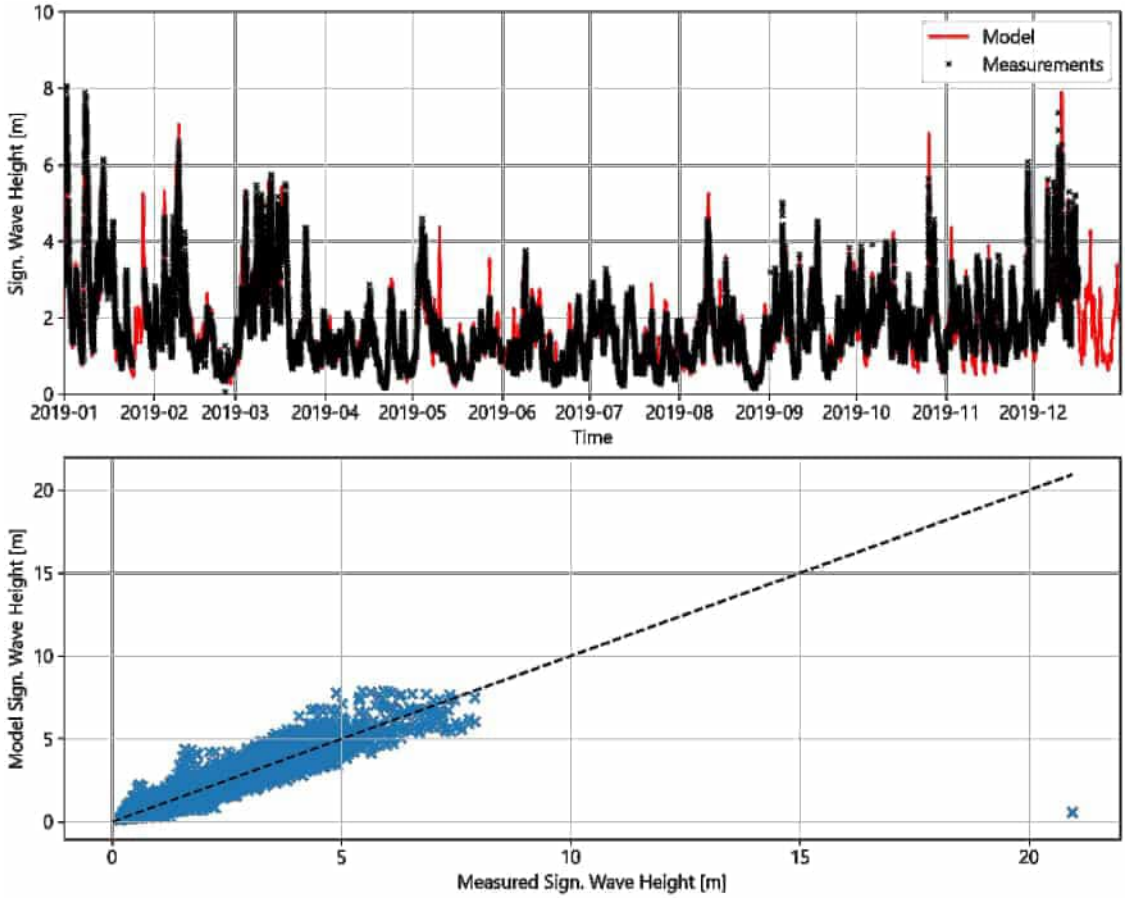
NO_TS_MO_EurogeulDWE: 2019



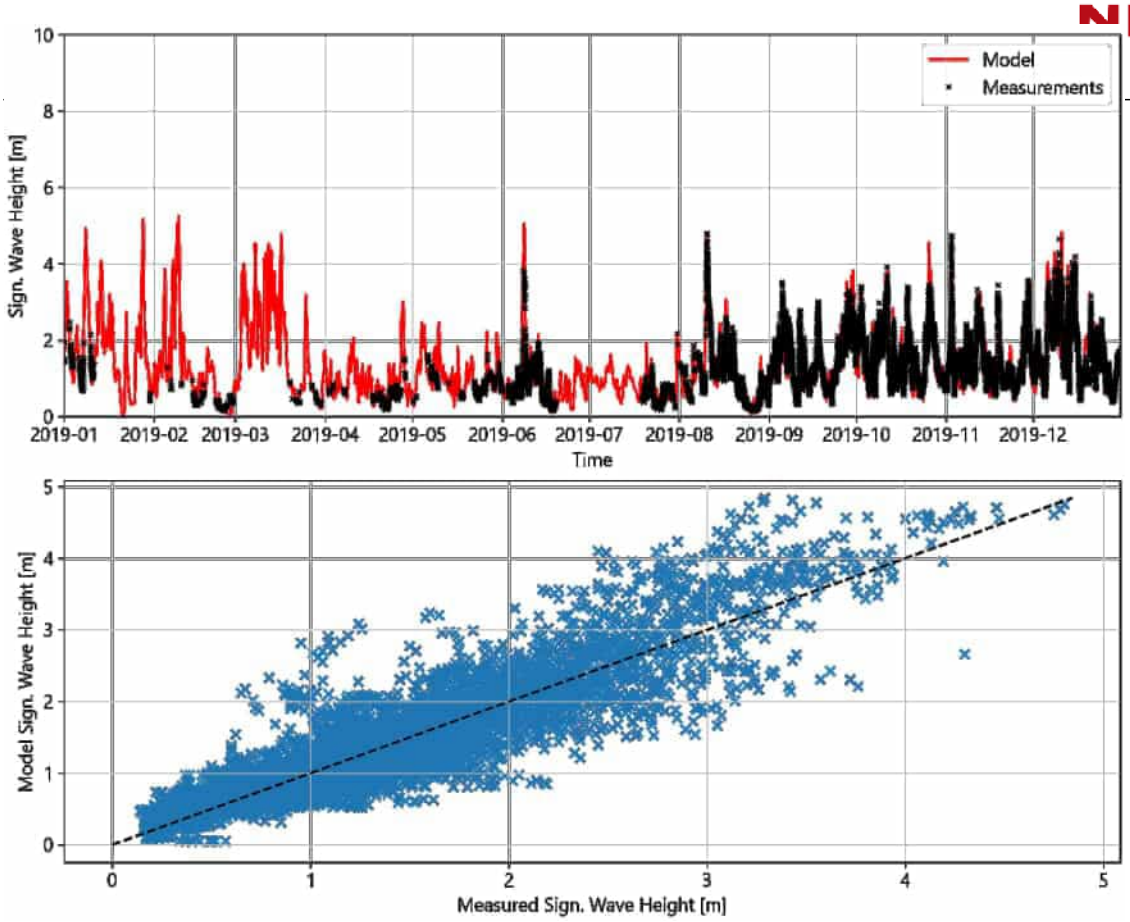
NO_TS_MO_EurogeulE13: 2019



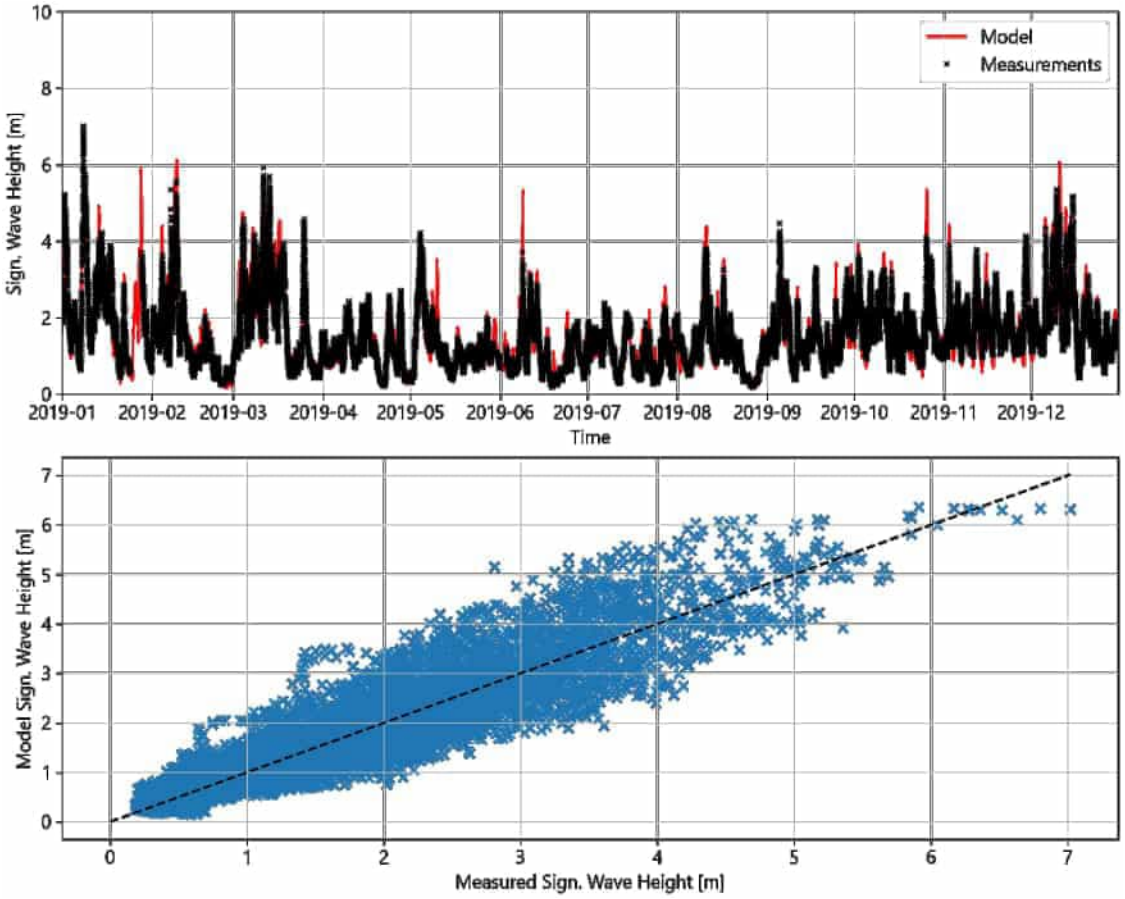
NO_TS_MO_Europlatform3: 2019



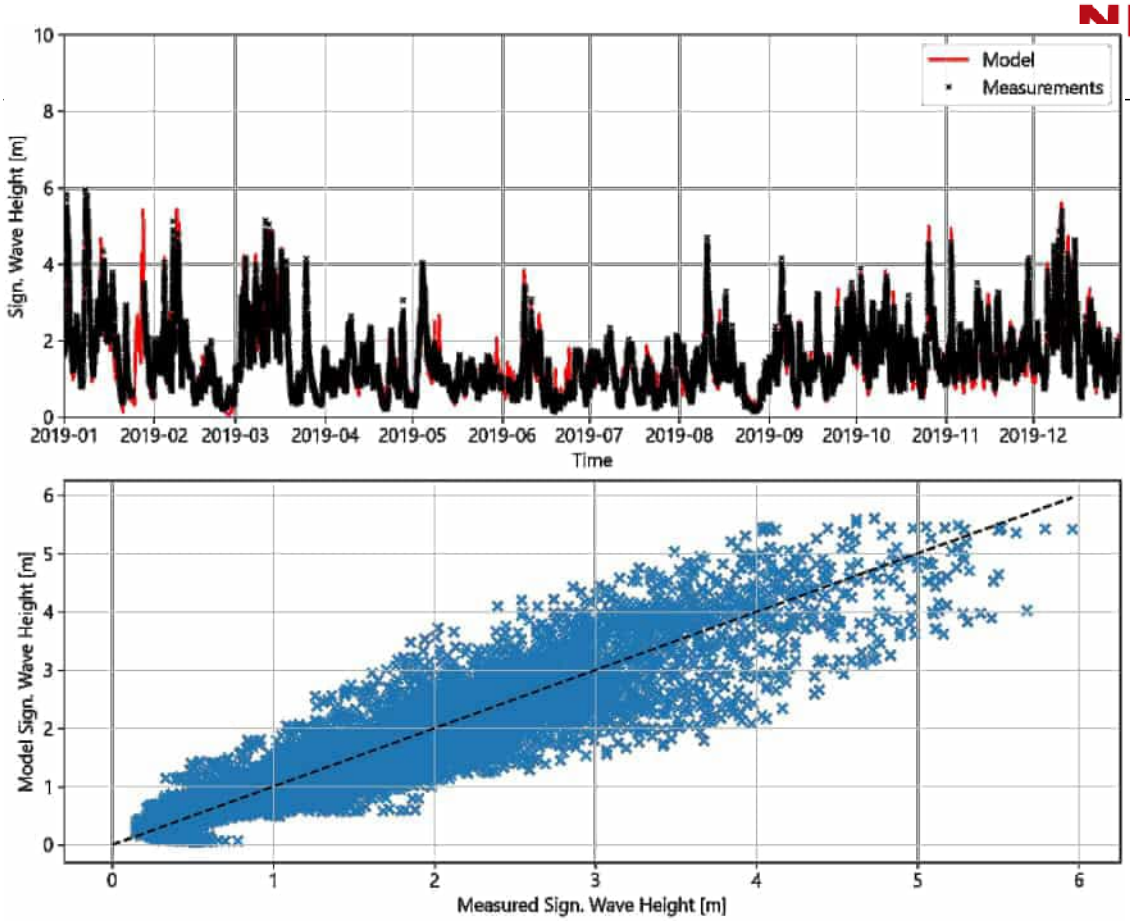
NO_TS_MO_F3platform: 2019



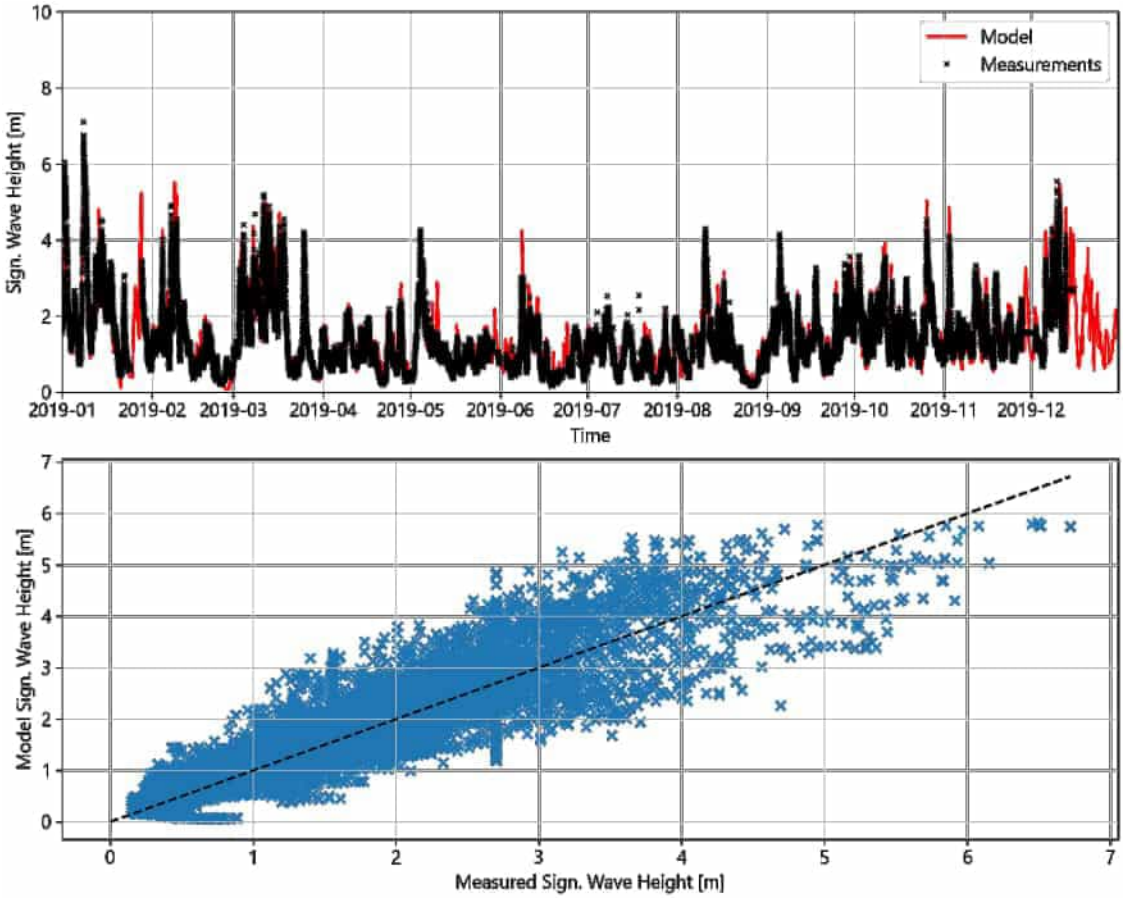
NO_TS_MO_IJmuidenMunitiestort2: 2019



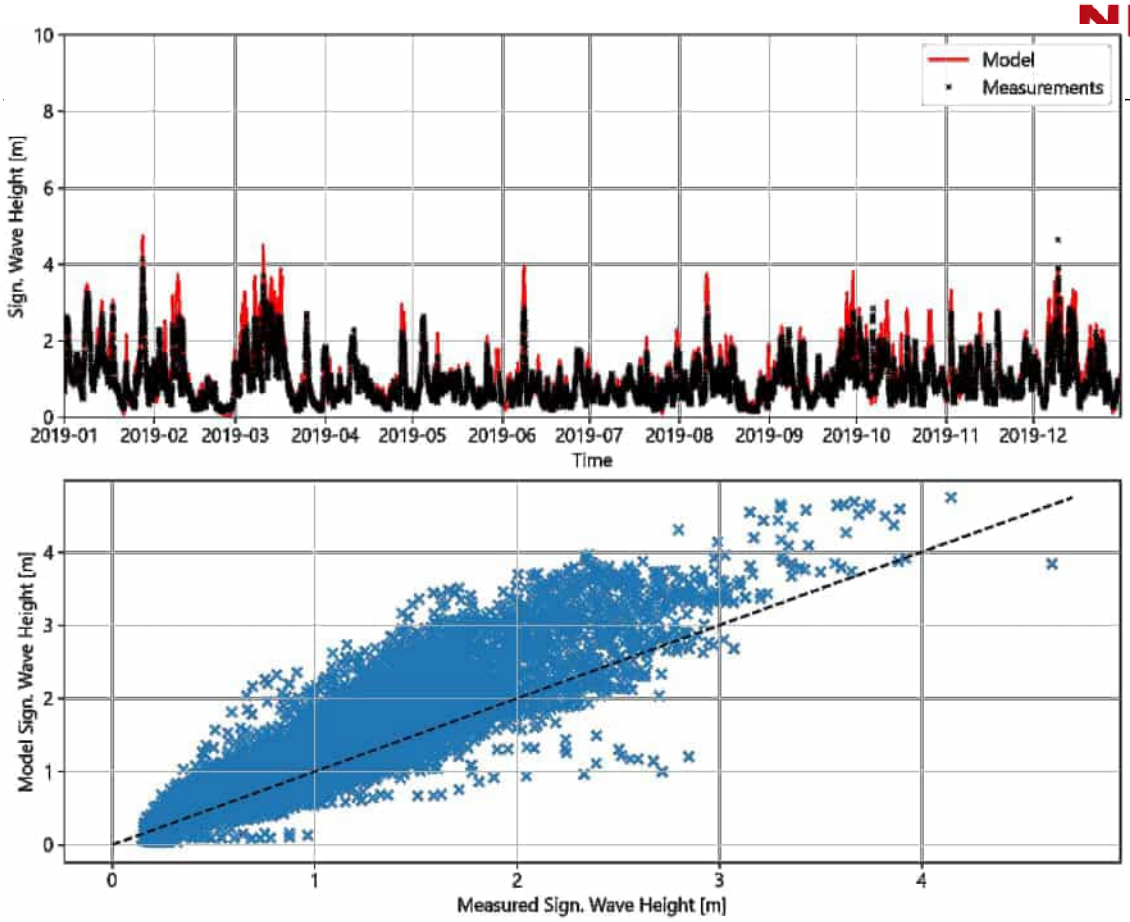
NO_TS_MO_J61: 2019



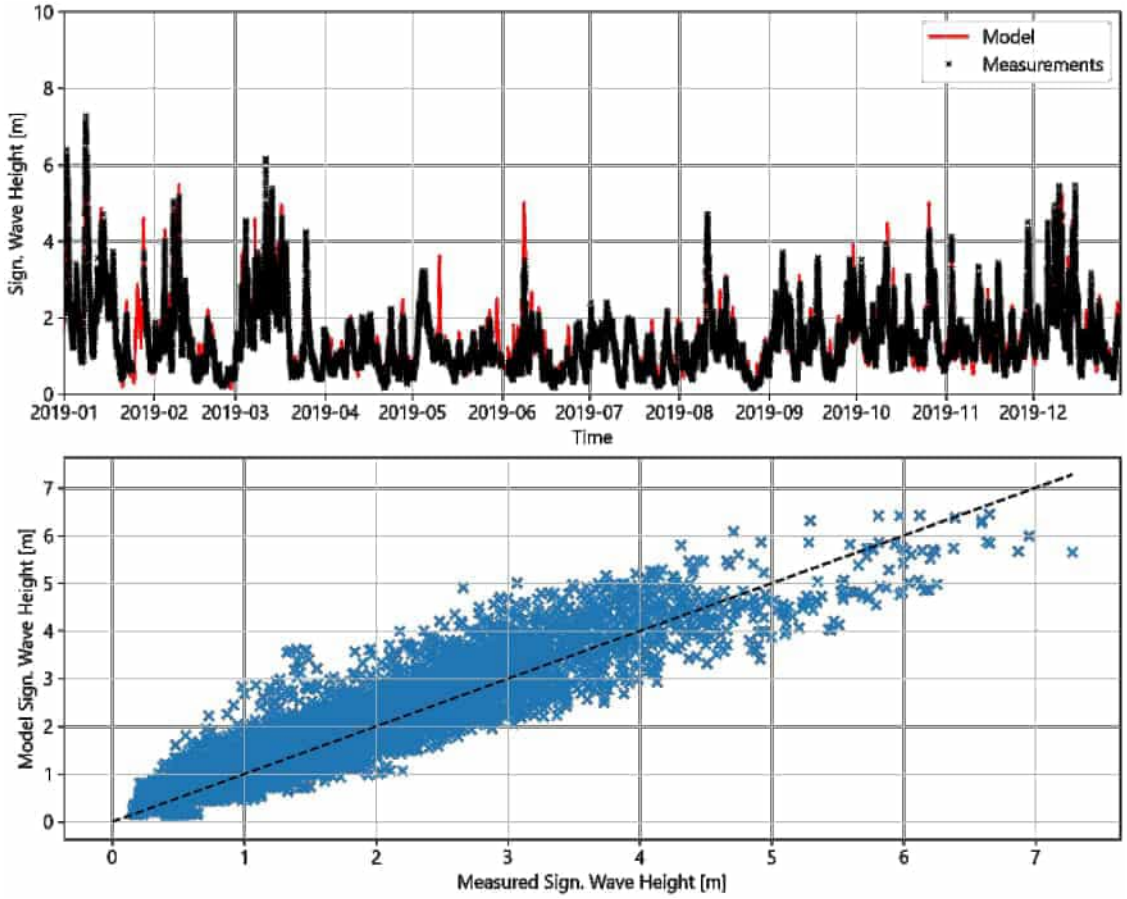
NO_TS_MO_K13a3: 2019



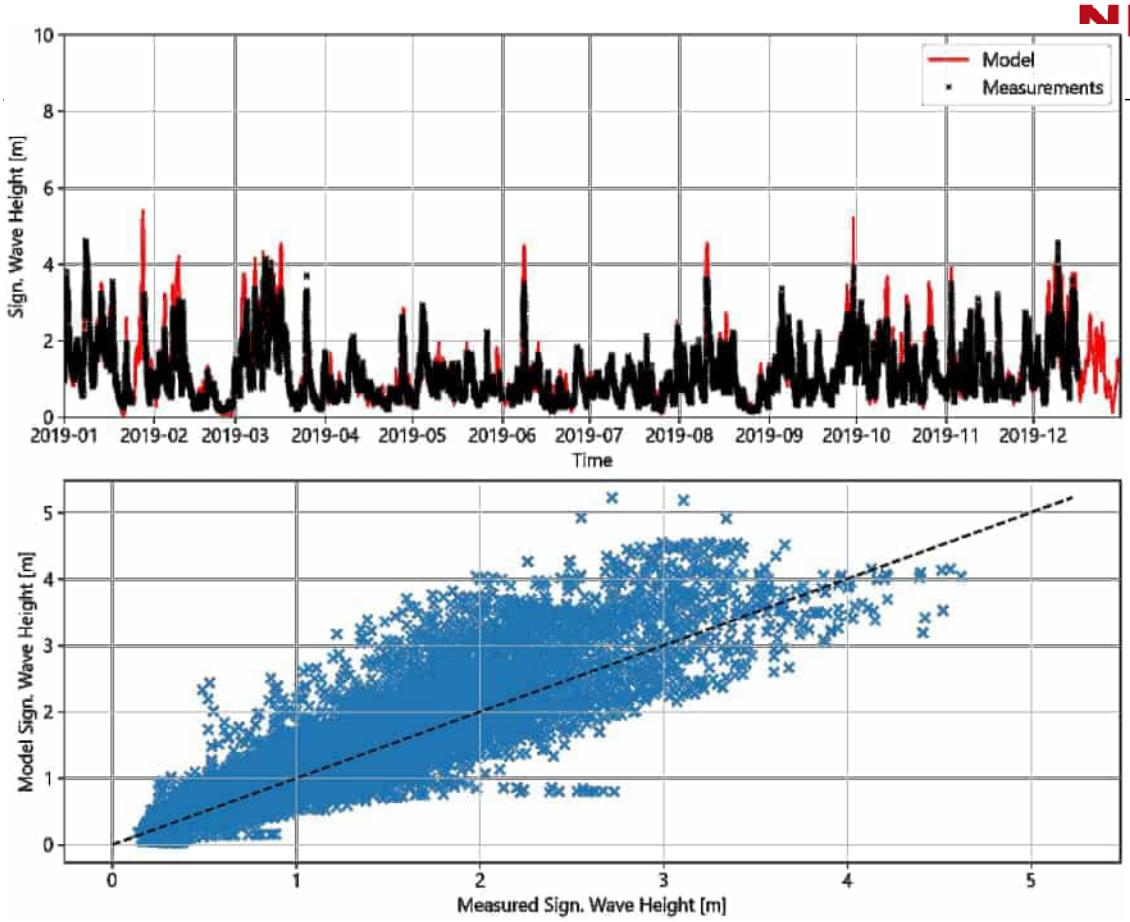
NO_TS_MO_K141: 2019



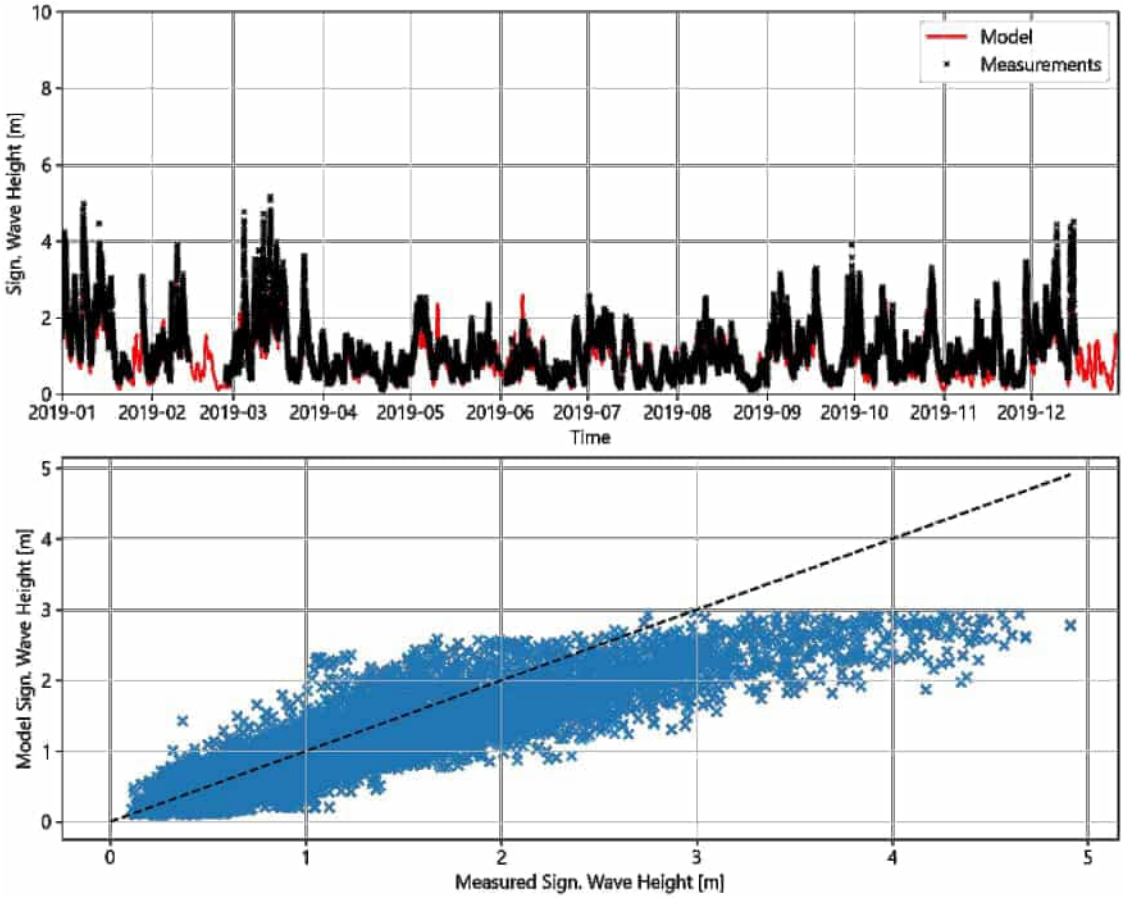
NO_TS_MO_Kwintebank: 2019



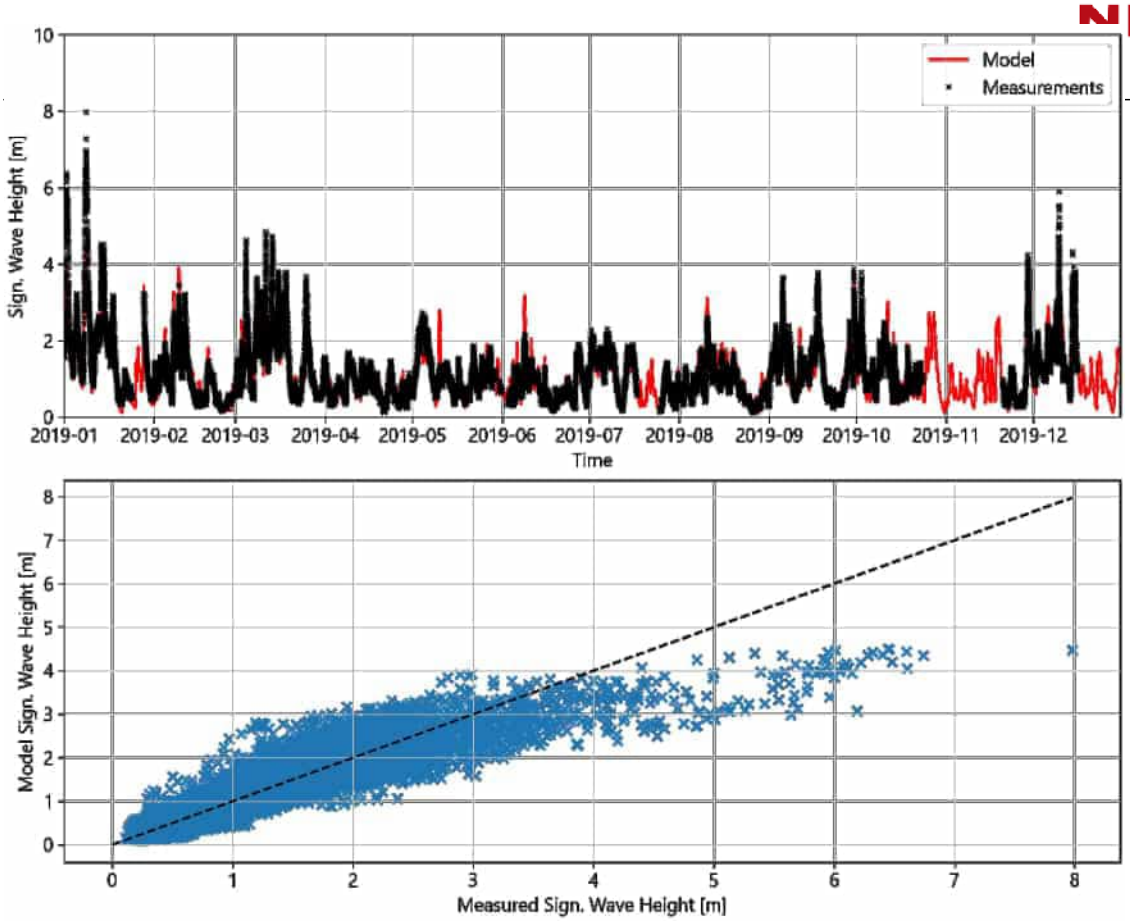
NO_TS_MO_L91: 2019



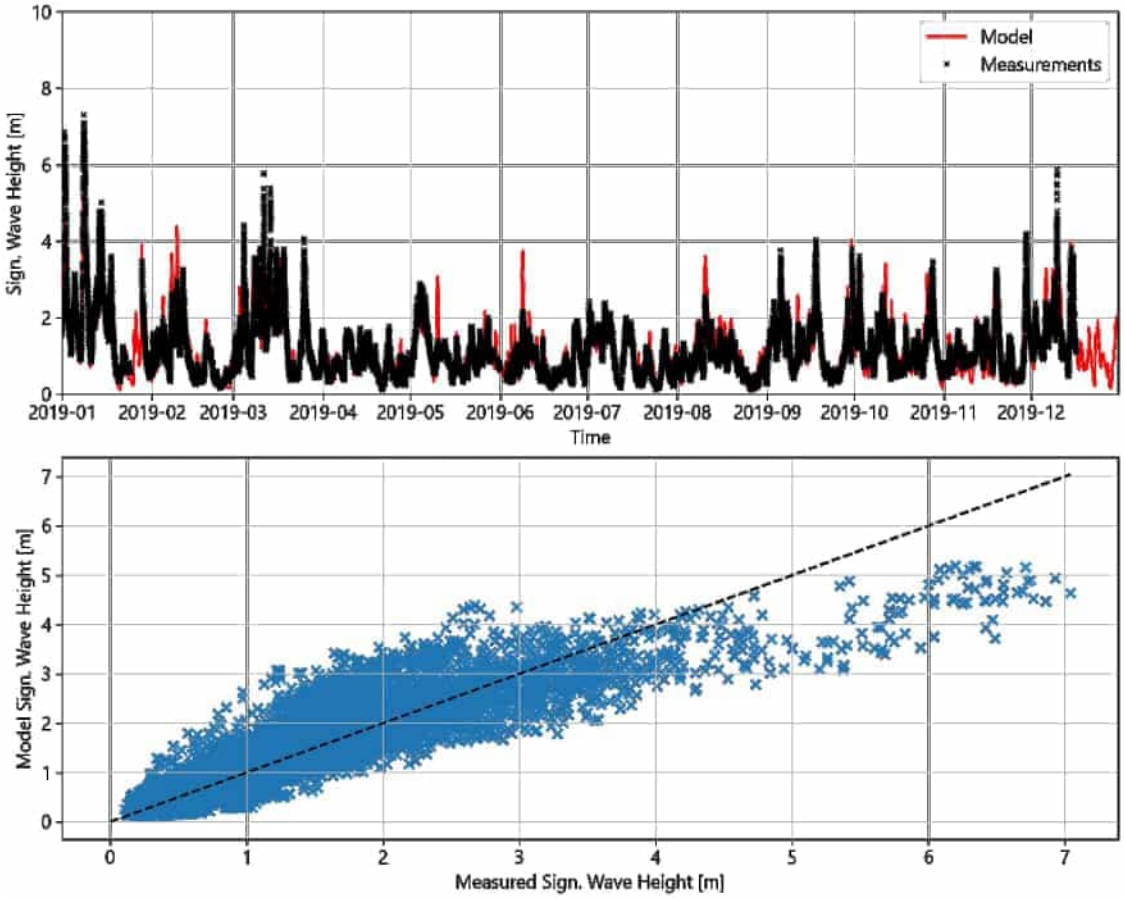
NO_TS_MO_LichteilandGoeree2: 2019



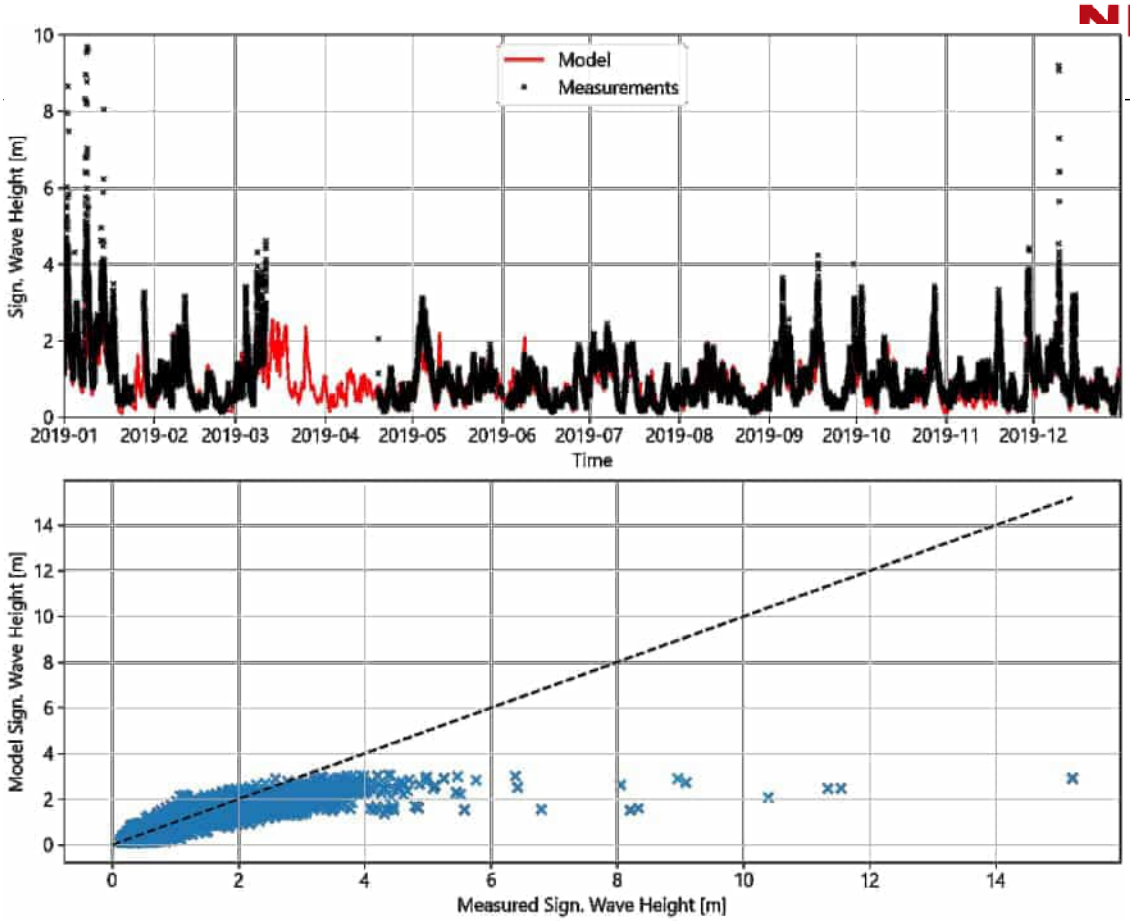
NO_TS_MO_MeetboeiWEO1: 2019



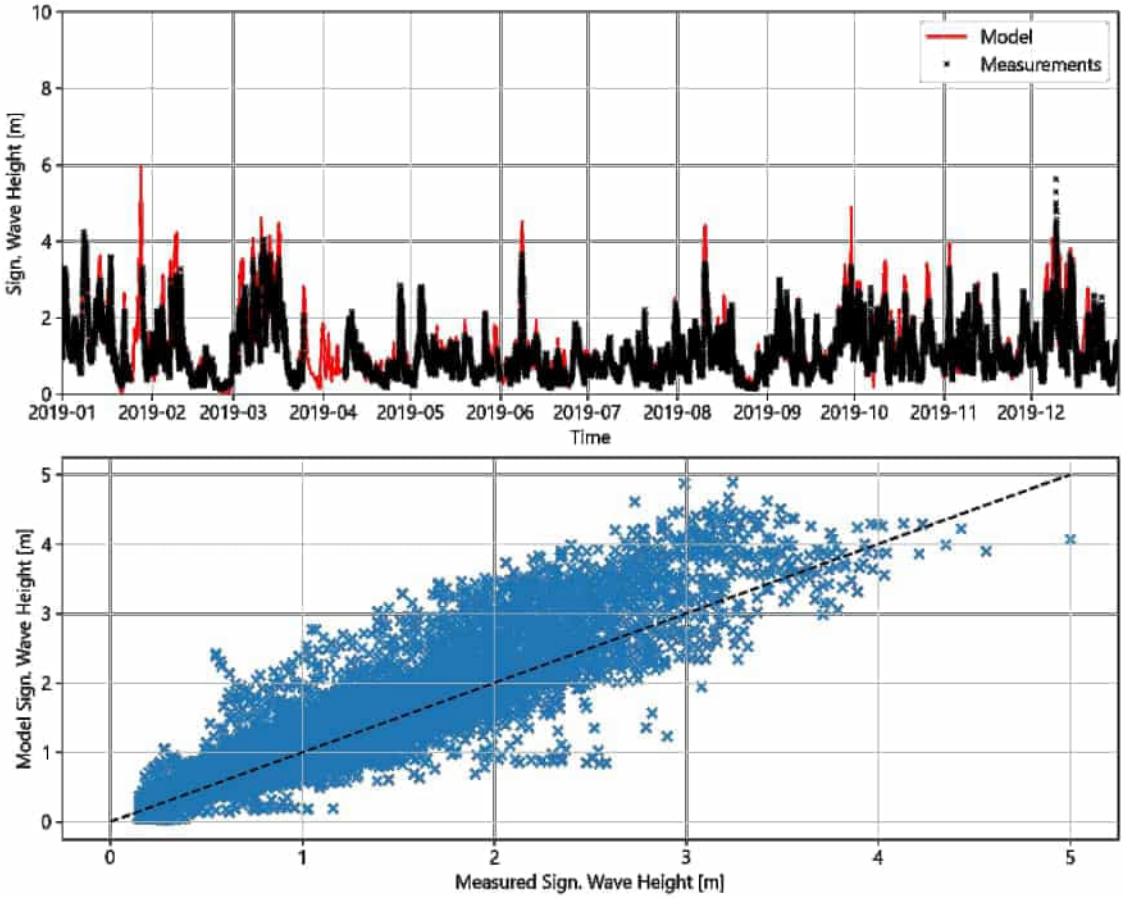
NO_TS_MO_MeetboeiWEW1: 2019



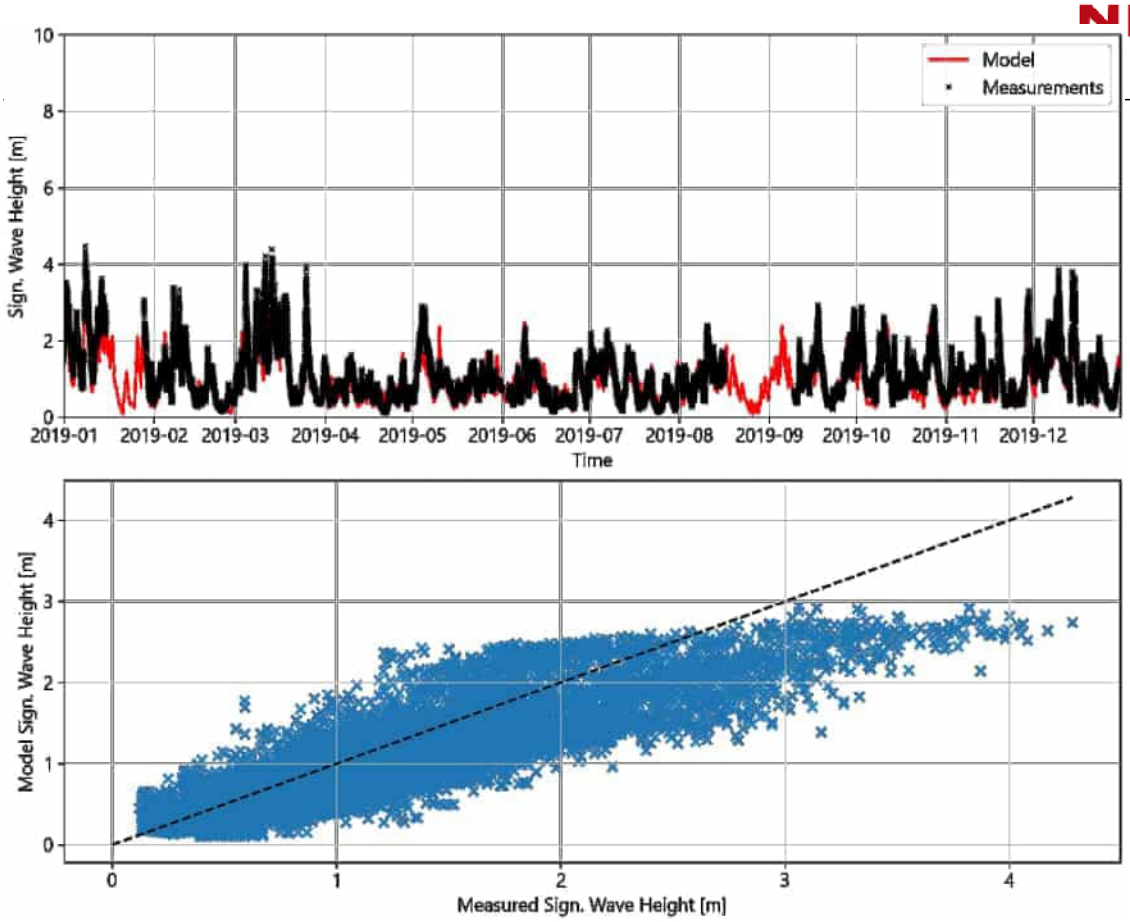
NO_TS_MO_SchiermonnikoogNoord: 2019



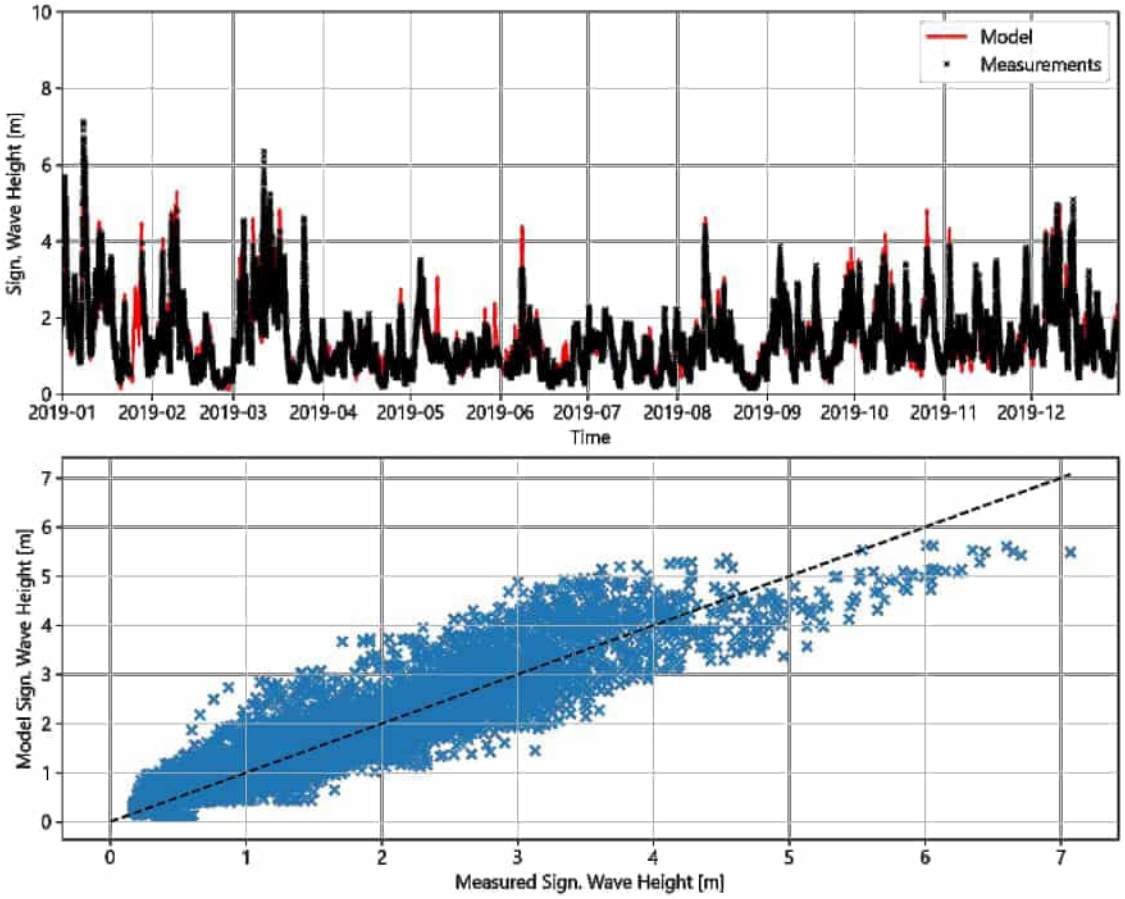
NO_TS_MO_SchiermonnikoogWestgat: 2019



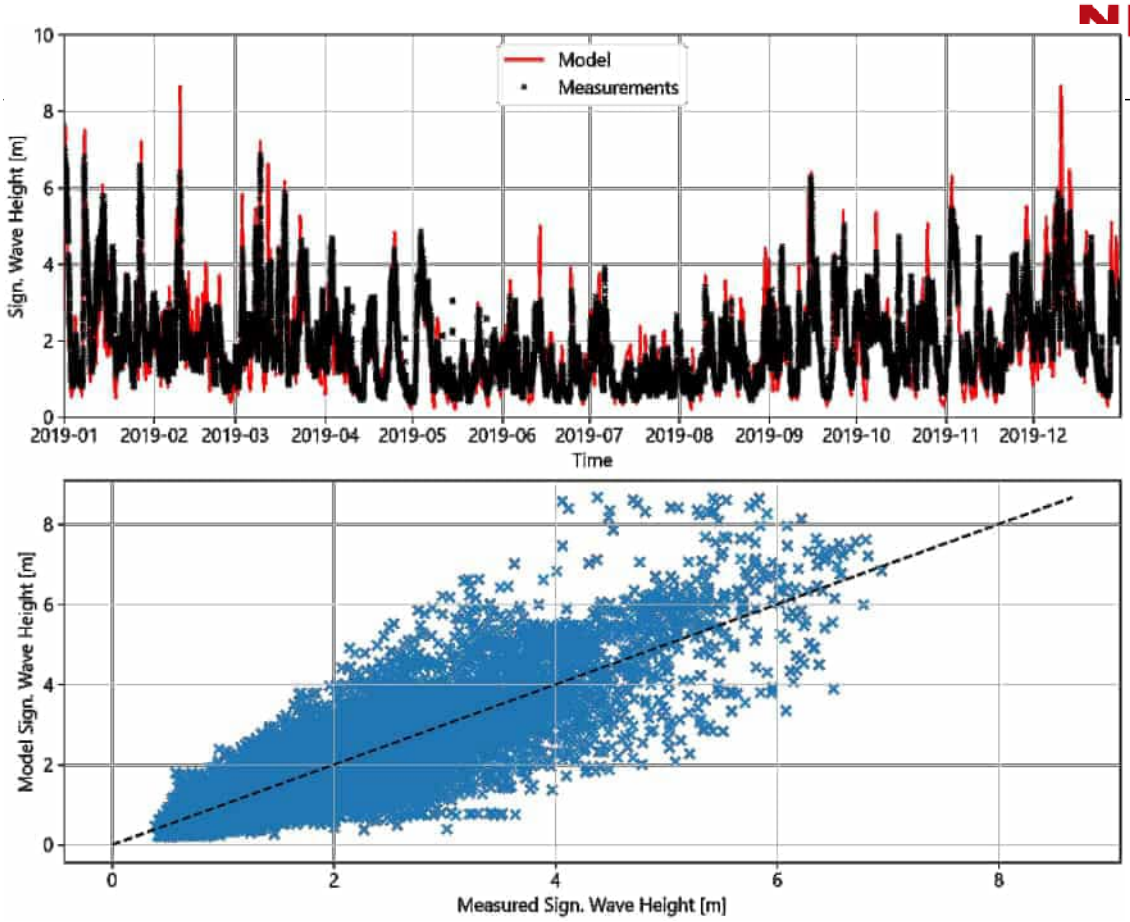
NO_TS_MO_Schouwenbank2: 2019



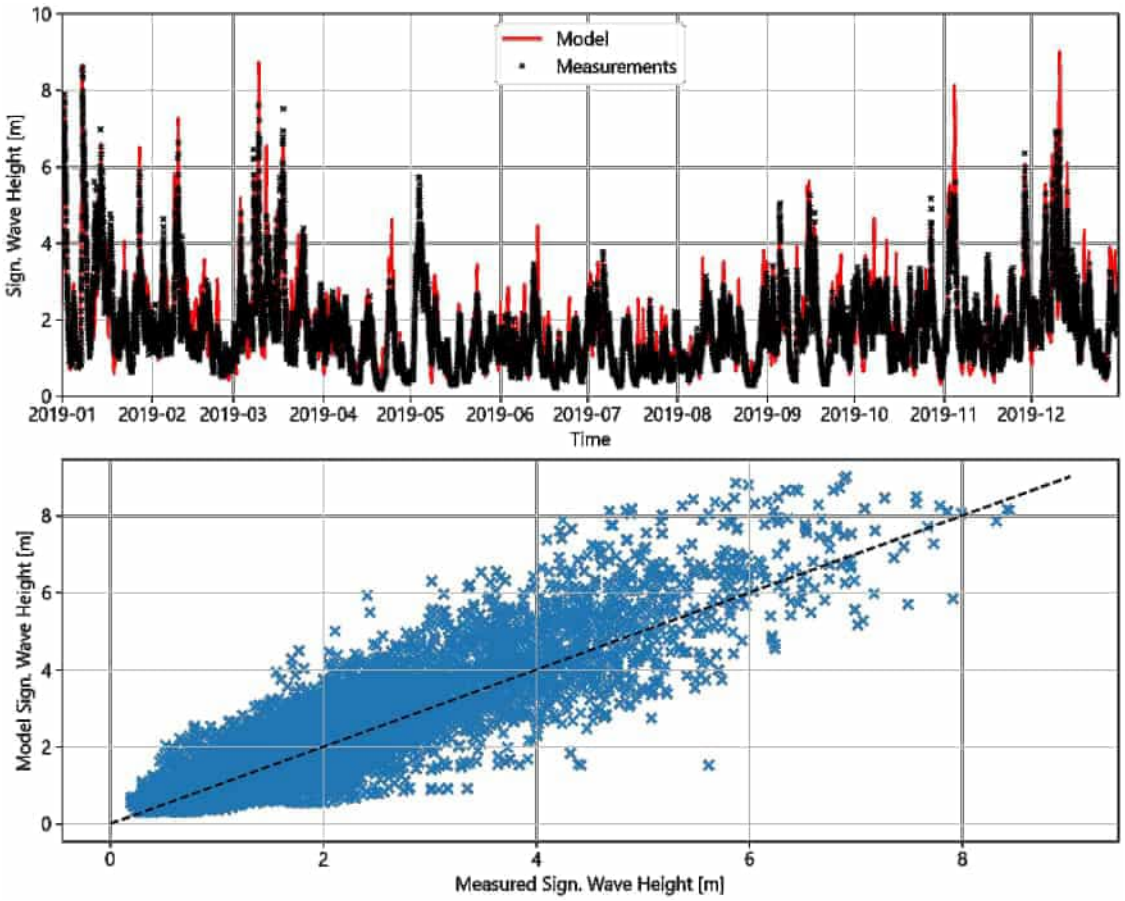
NO_TS_MO_StortemelkBoei: 2019



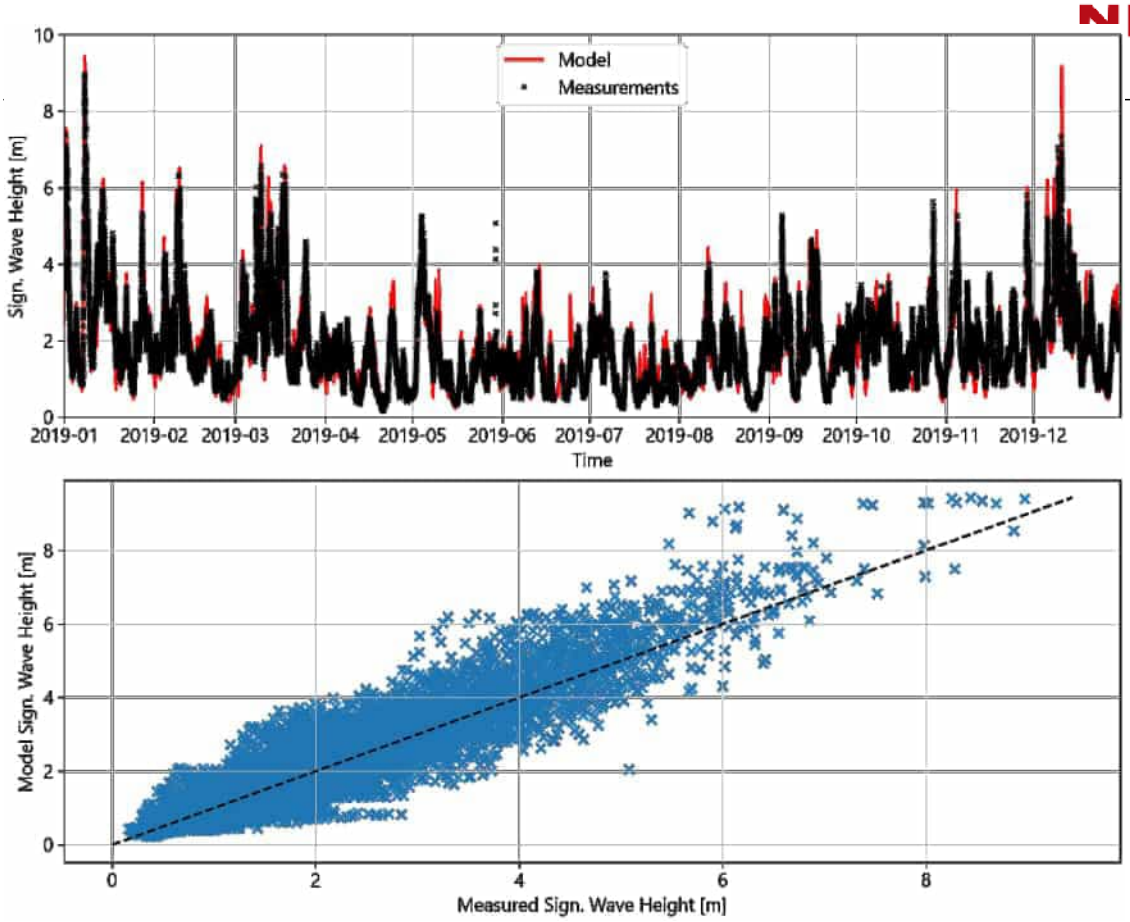
NO_TS_MO_WaddenEierlandseGat: 2019



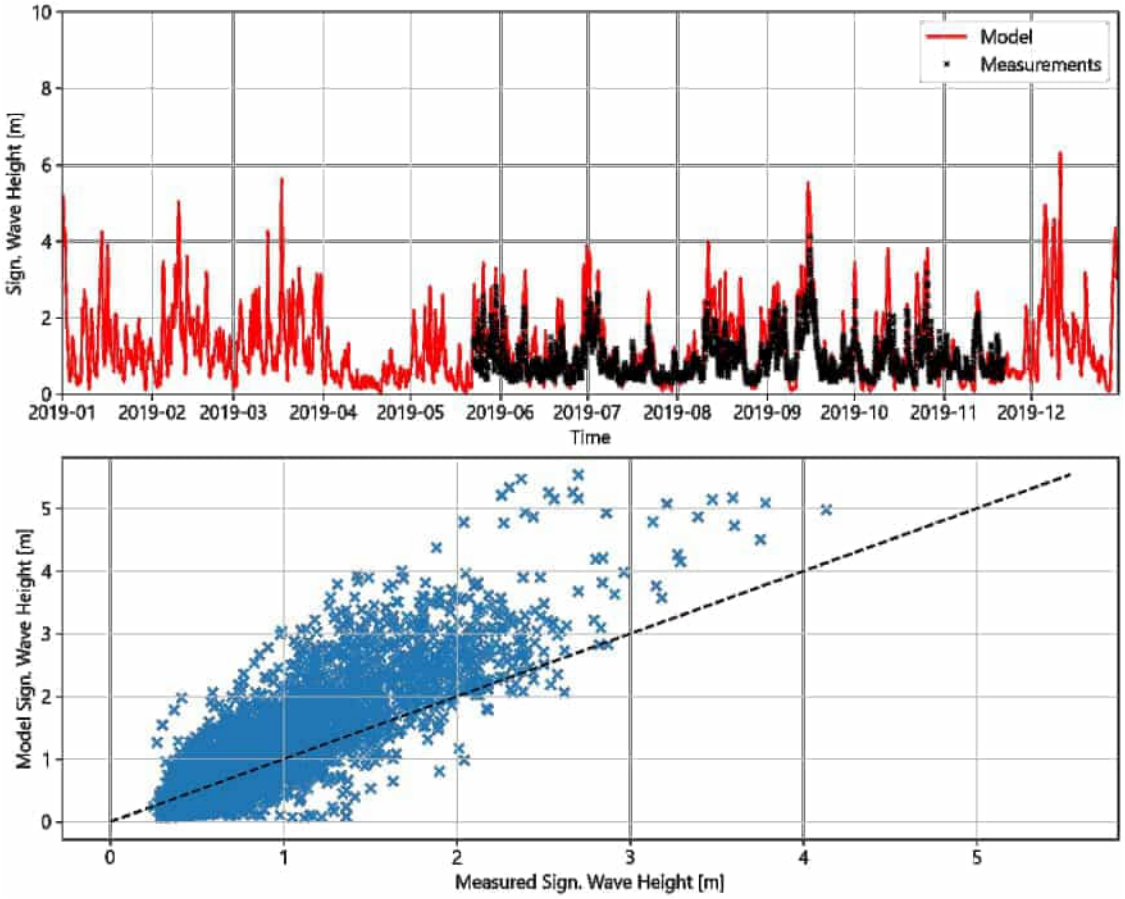
Sleipner A: 2019



Ula: 2019

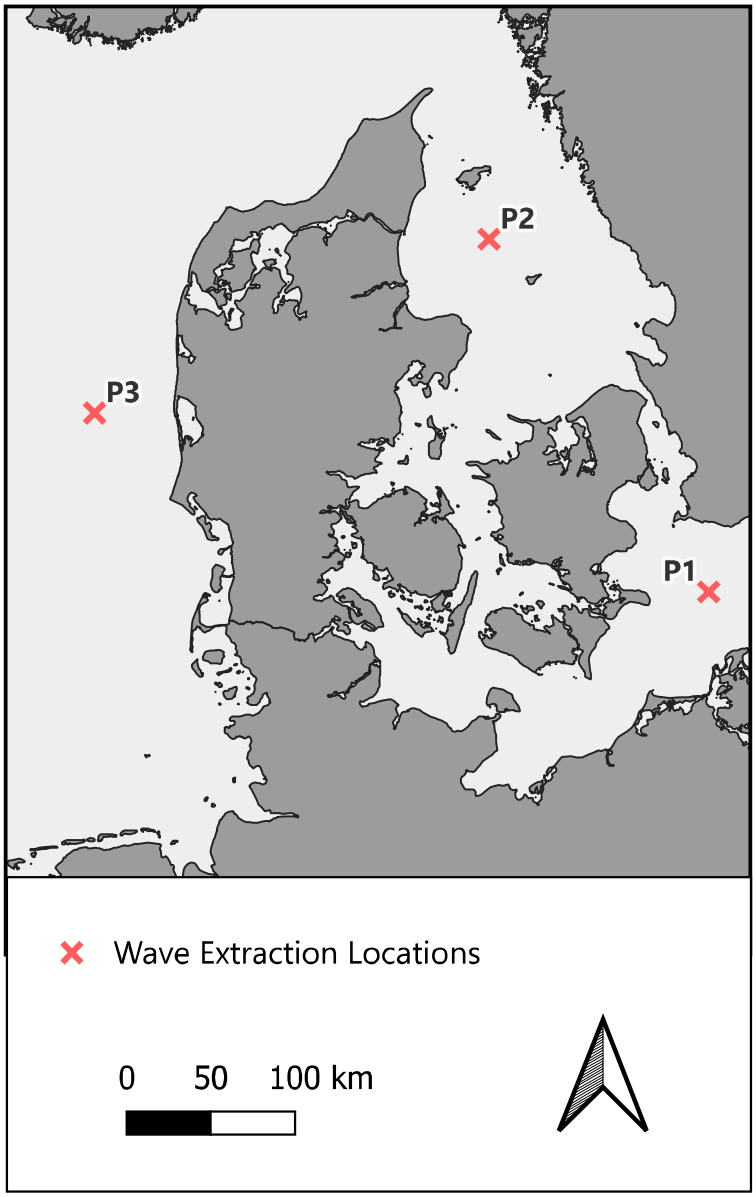


Valhall A: 2019

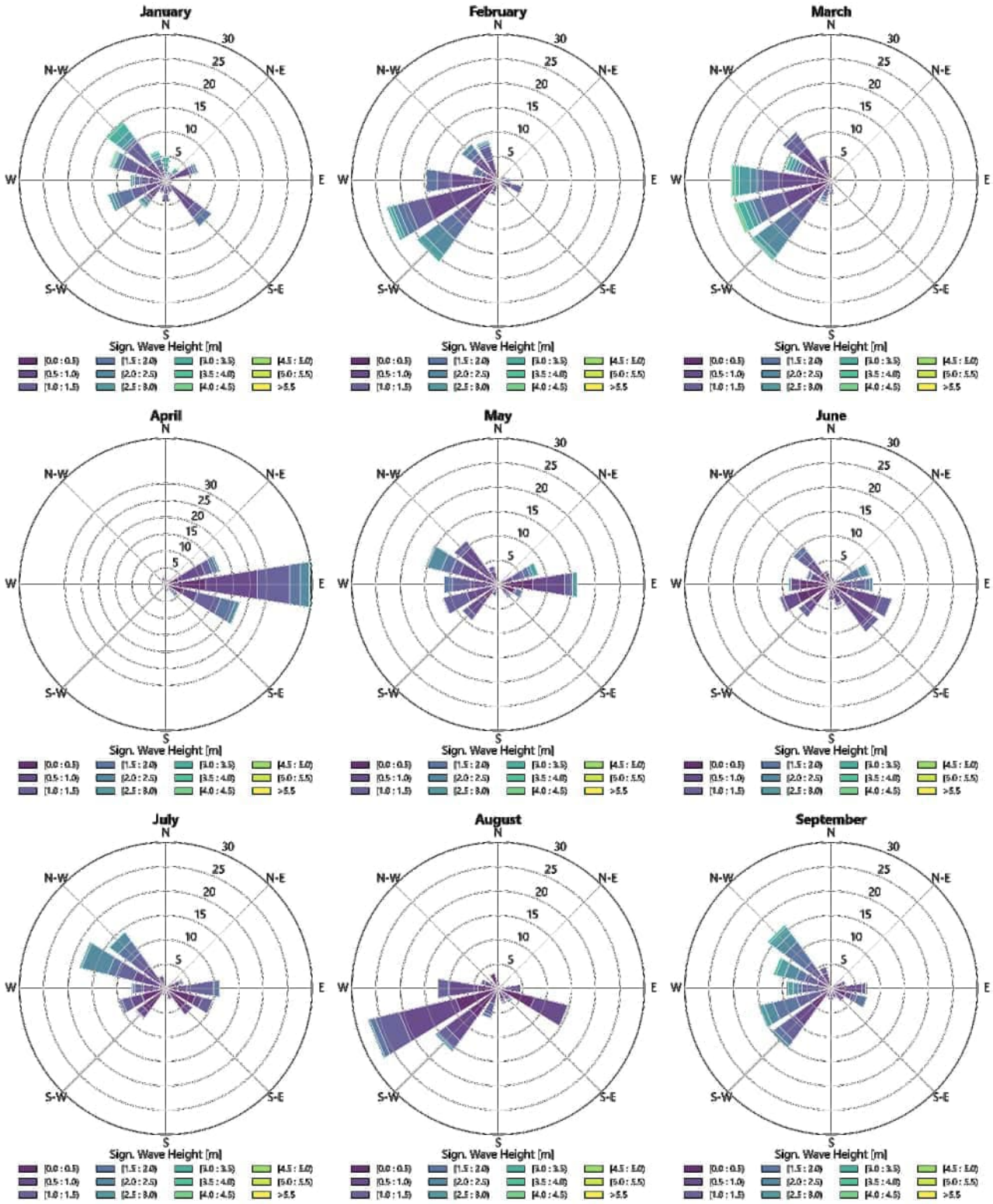


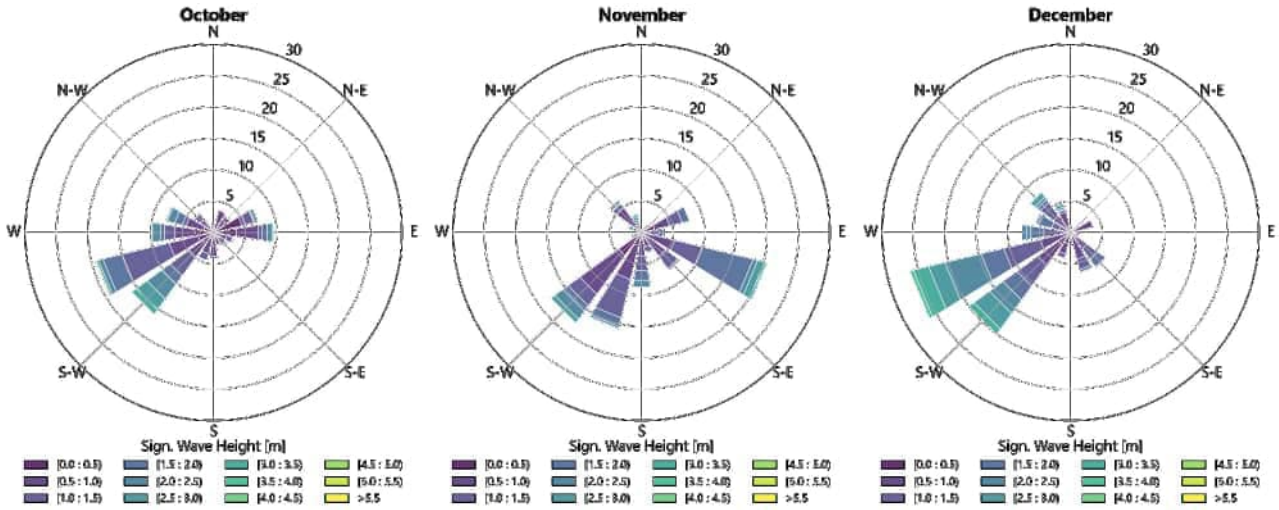
Vinga BS: 2019

Appendix D: Wave Roses at Selected Locations

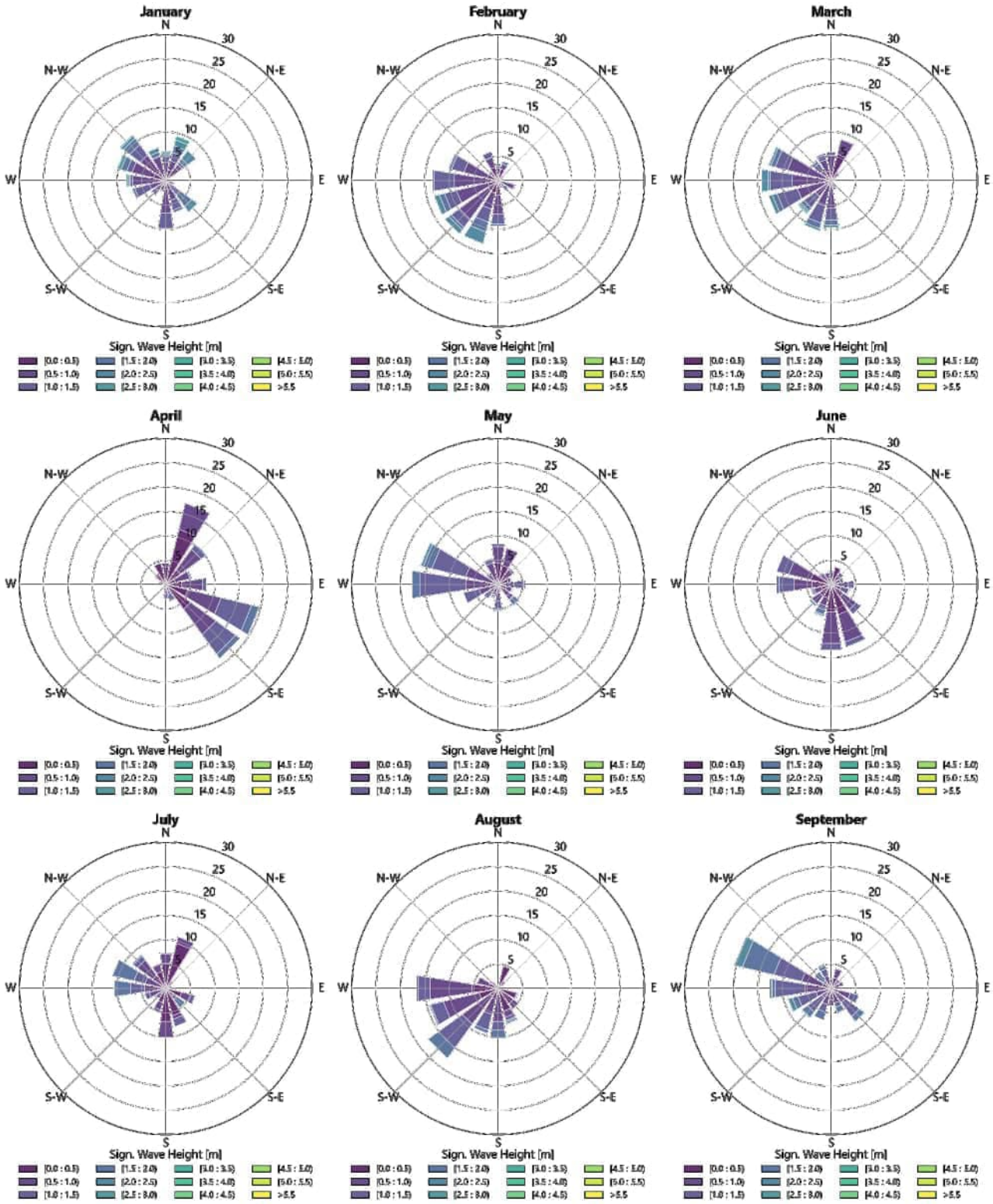

P2
P3
P1
Wave Extraction Locations
0 50 100 km

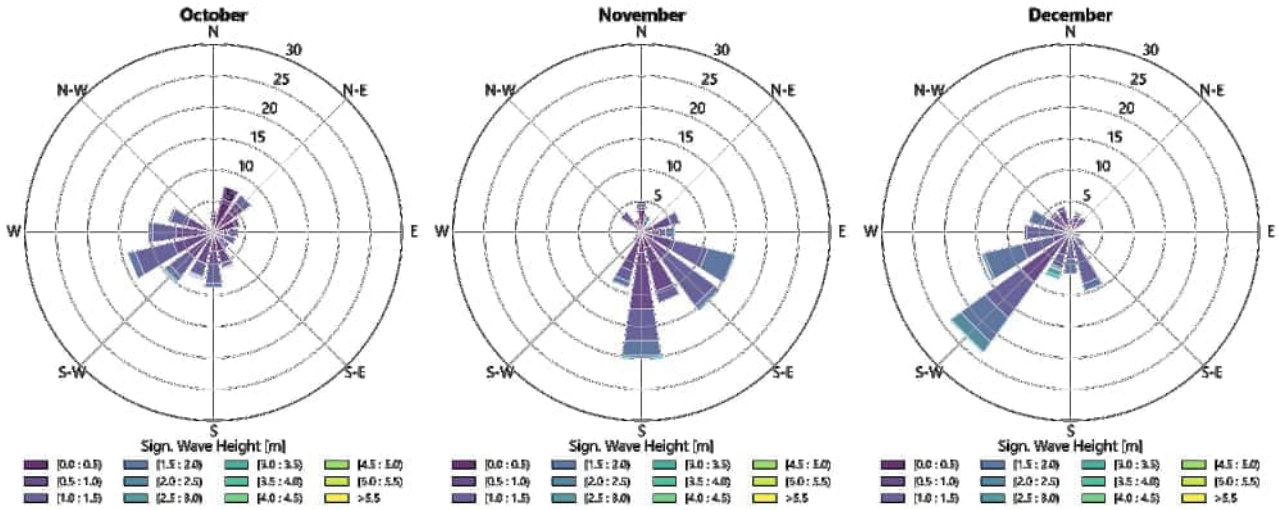
Point 1 - Baltic Sea



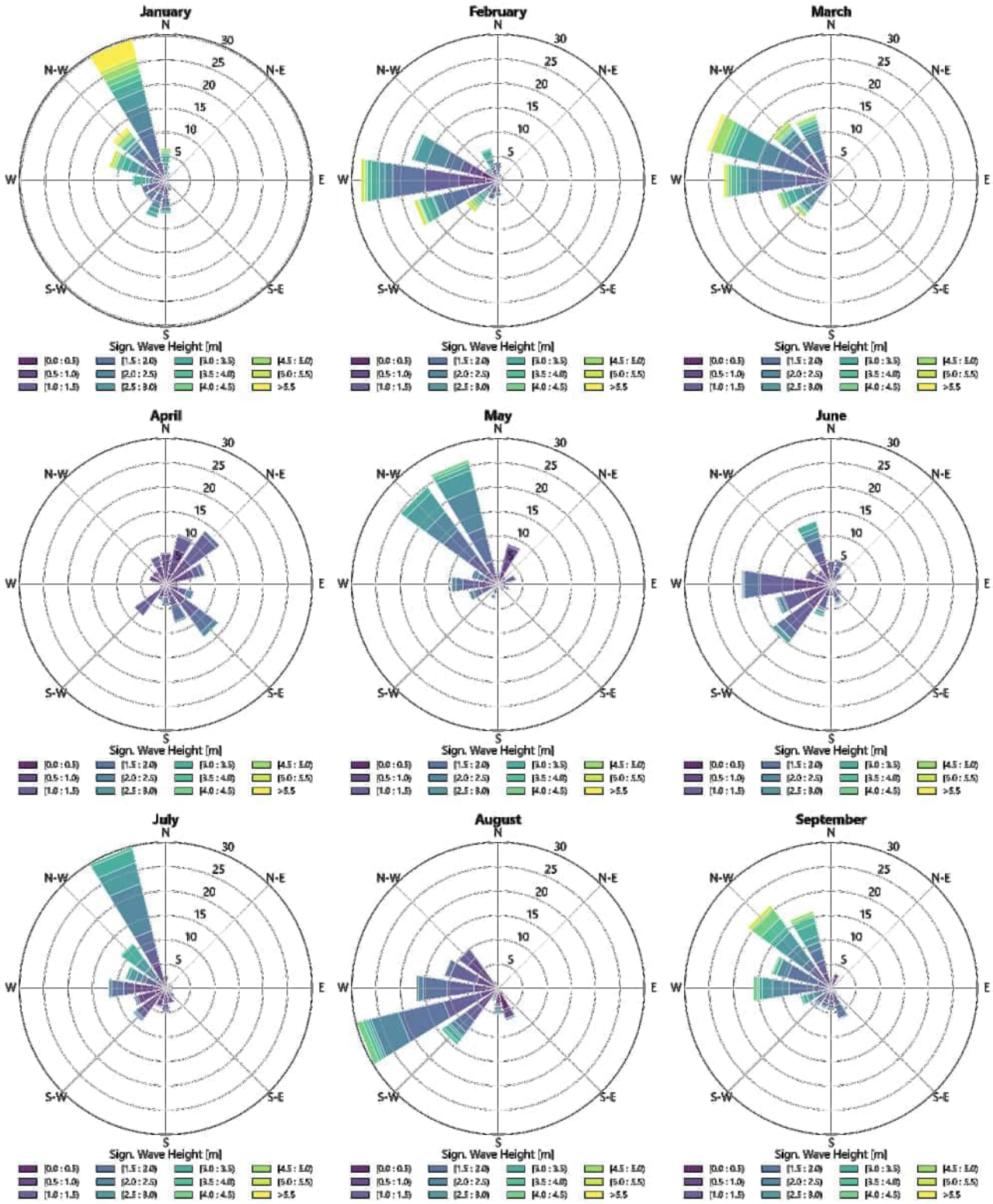

October
November
December
N
N-E
E
S-E
S
S-W
W
N-W
5
10
15
20
25
30
Sign. Wave Height [m]
[0.0 : 0.5)
[0.5 : 1.0)
[1.0 : 1.5)
[1.5 : 2.0)
[2.0 : 2.5)
[2.5 : 3.0)
[3.0 : 3.5)
[3.5 : 4.0)
[4.0 : 4.5)
[4.5 : 5.0)
[5.0 : 5.5)
>5.5

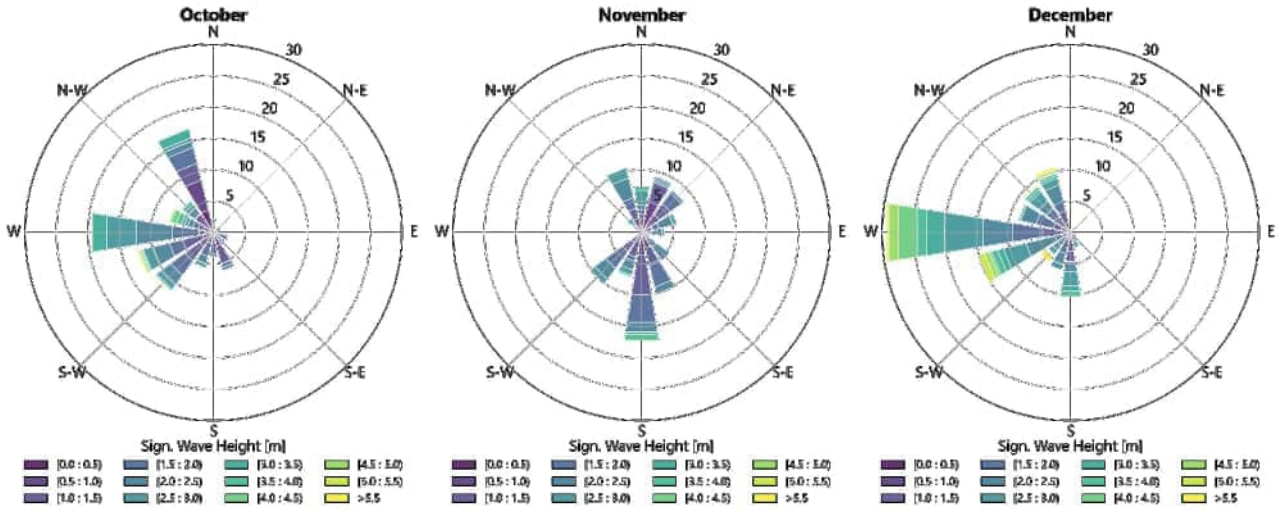
Point 2 - Kattegat




October
November
December
N
N-E
E
S-E
S
S-W
W
N-W
5
10
15
20
25
30
Sign. Wave Height [m]
[0.0 : 0.5)
[0.5 : 1.0)
[1.0 : 1.5)
[1.5 : 2.0)
[2.0 : 2.5)
[2.5 : 3.0)
[3.0 : 3.5)
[3.5 : 4.0)
[4.0 : 4.5)
[4.5 : 5.0)
[5.0 : 5.5)
>5.5

Point 3 - North Sea

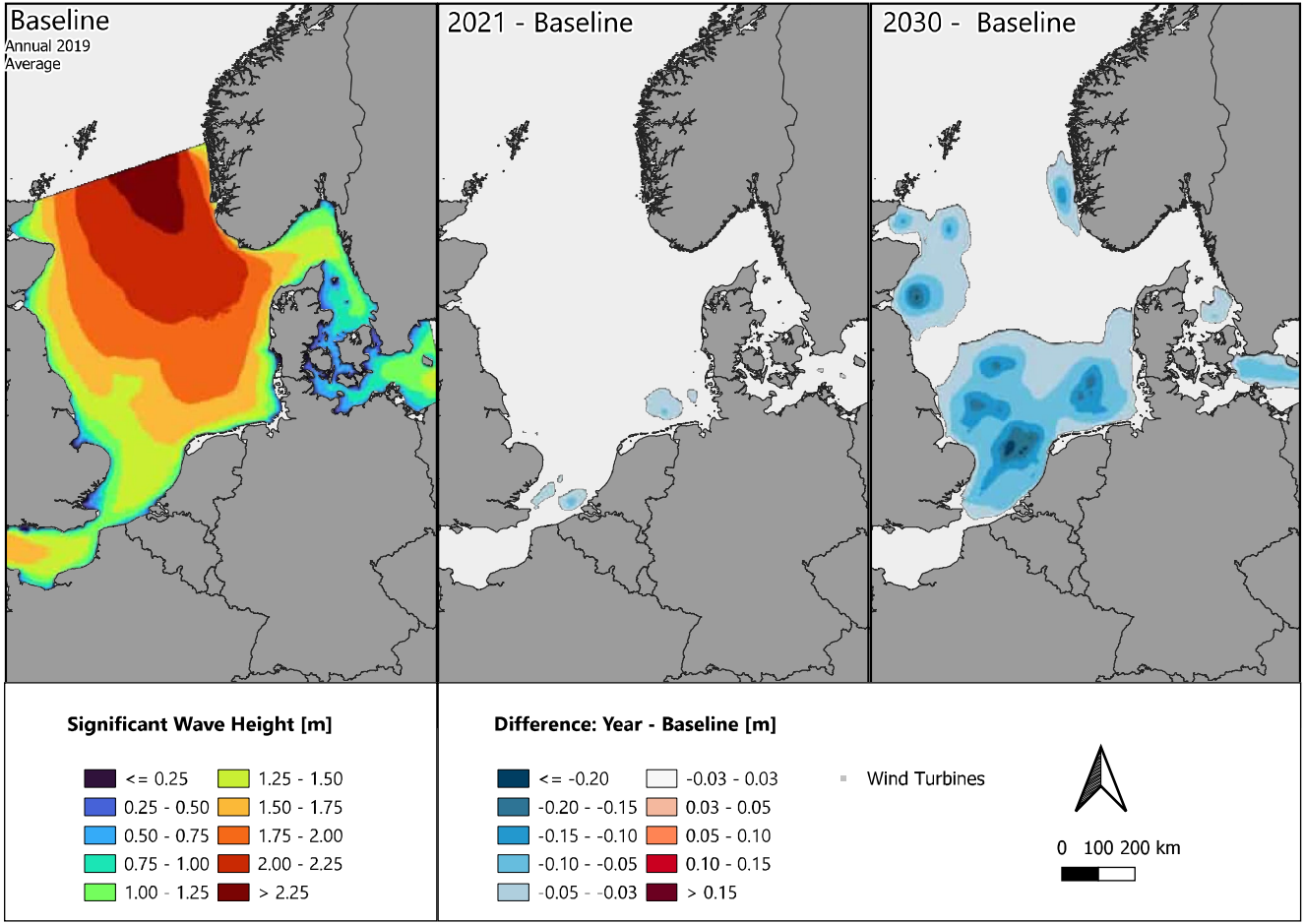


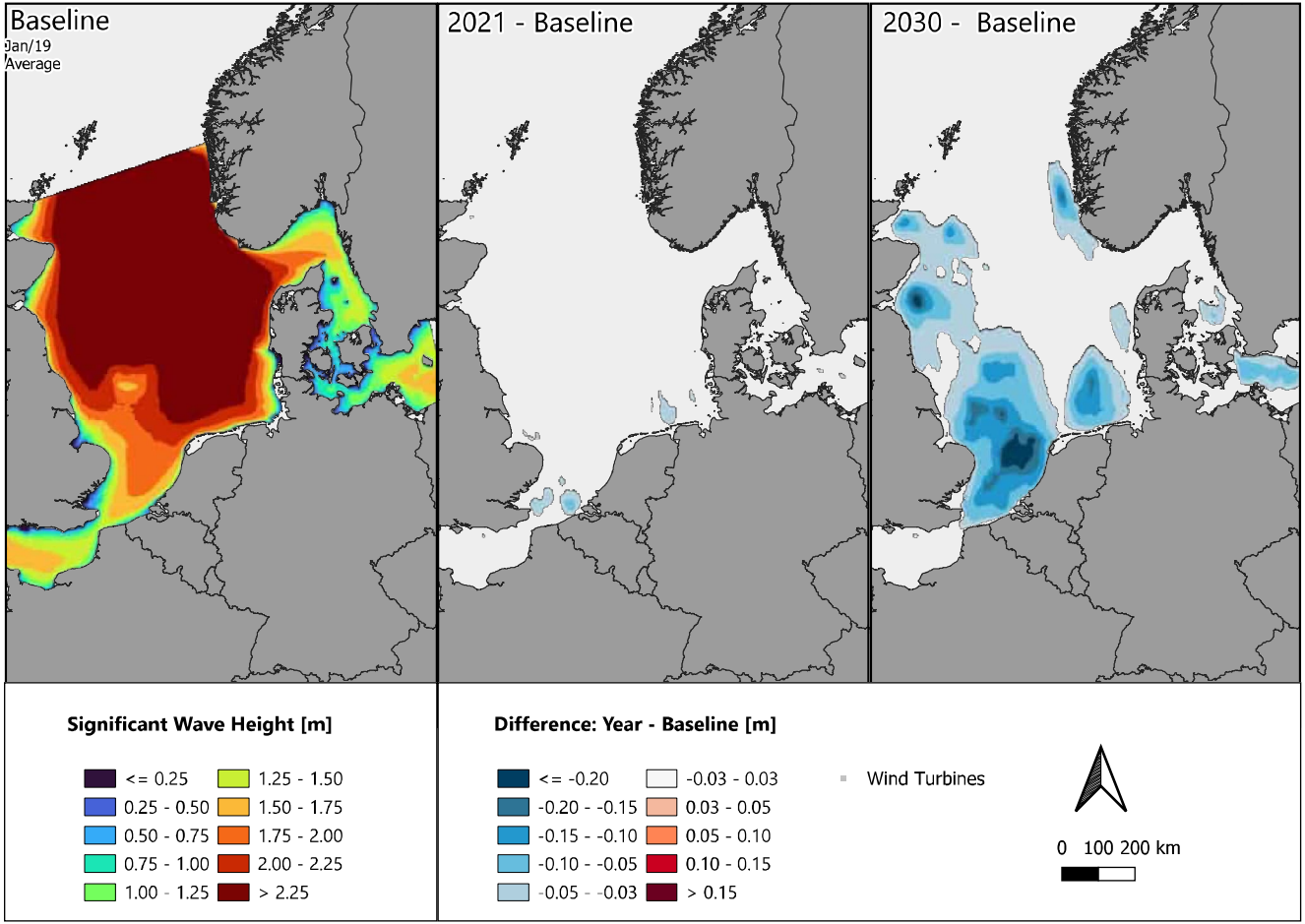

October
November
December
N
N-E
E
S-E
S
S-W
W
N-W
5
10
15
20
25
30
Sign. Wave Height [m]
[0.0 : 0.5)
[0.5 : 1.0)
[1.0 : 1.5)
[1.5 : 2.0)
[2.0 : 2.5)
[2.5 : 3.0)
[3.0 : 3.5)
[3.5 : 4.0)
[4.0 : 4.5)
[4.5 : 5.0)
[5.0 : 5.5)
>5.5

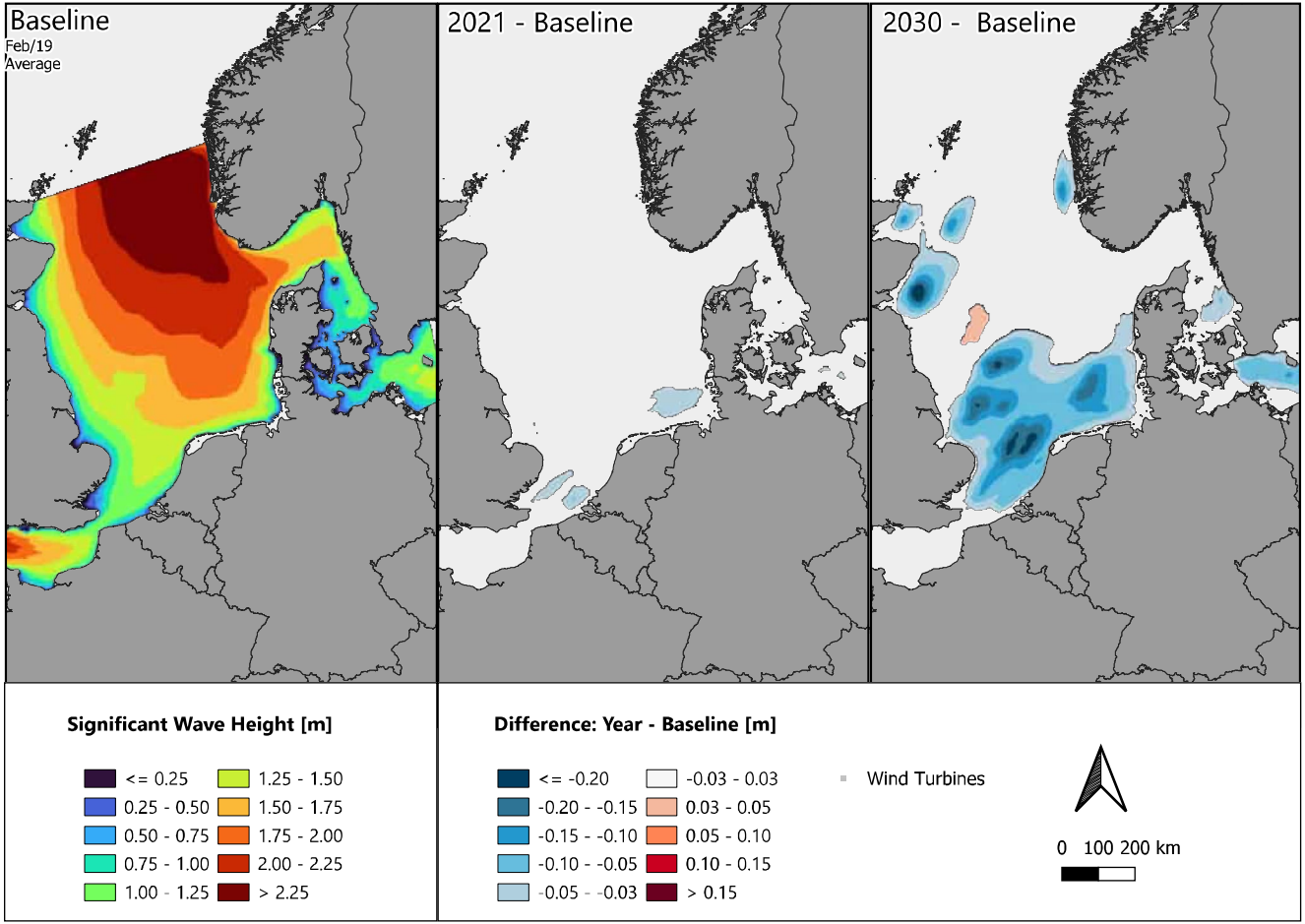
Appendix E: Wind Farms Spatial Impact on Significant Wave Heights

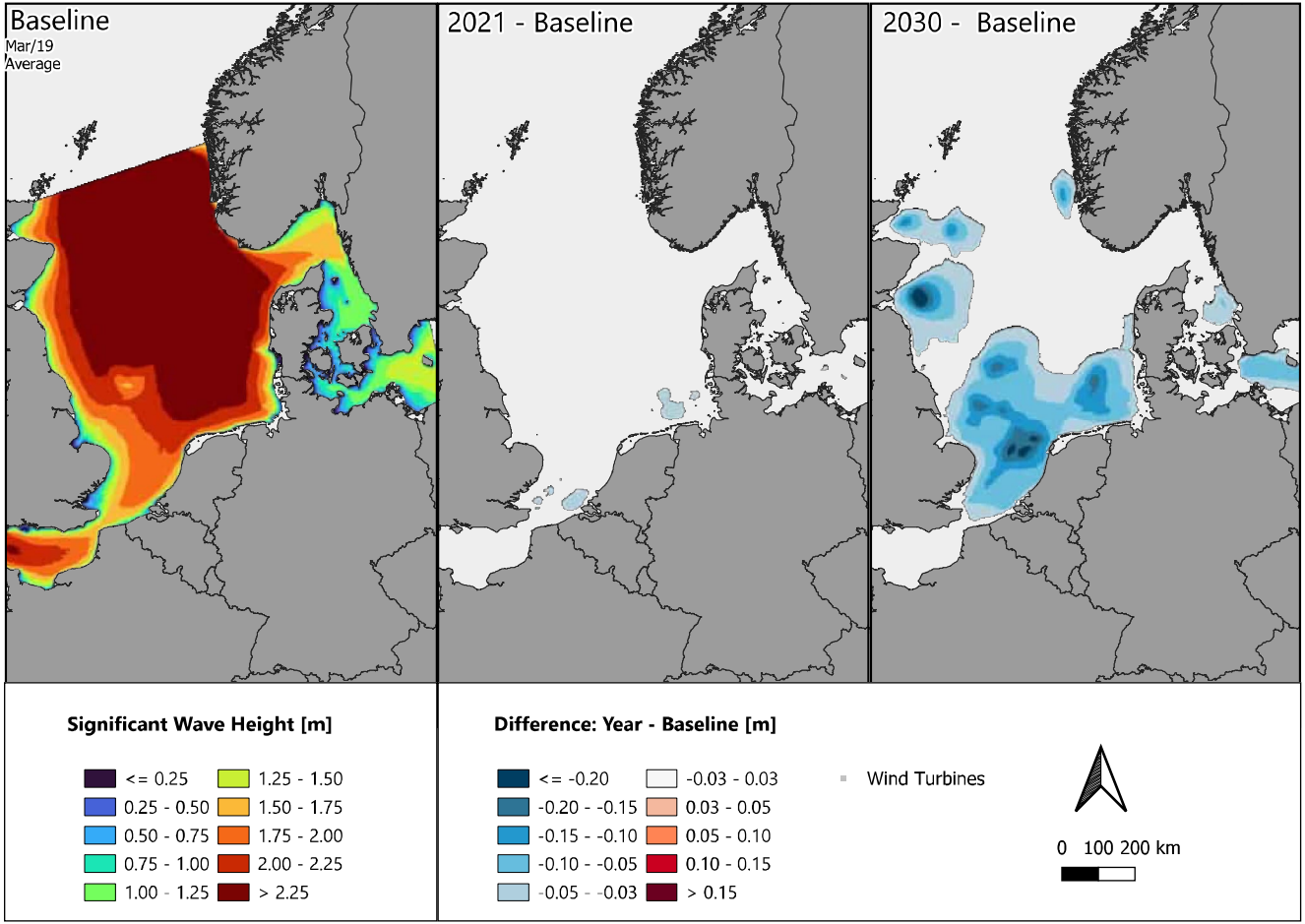
All the figures in Appendix present:

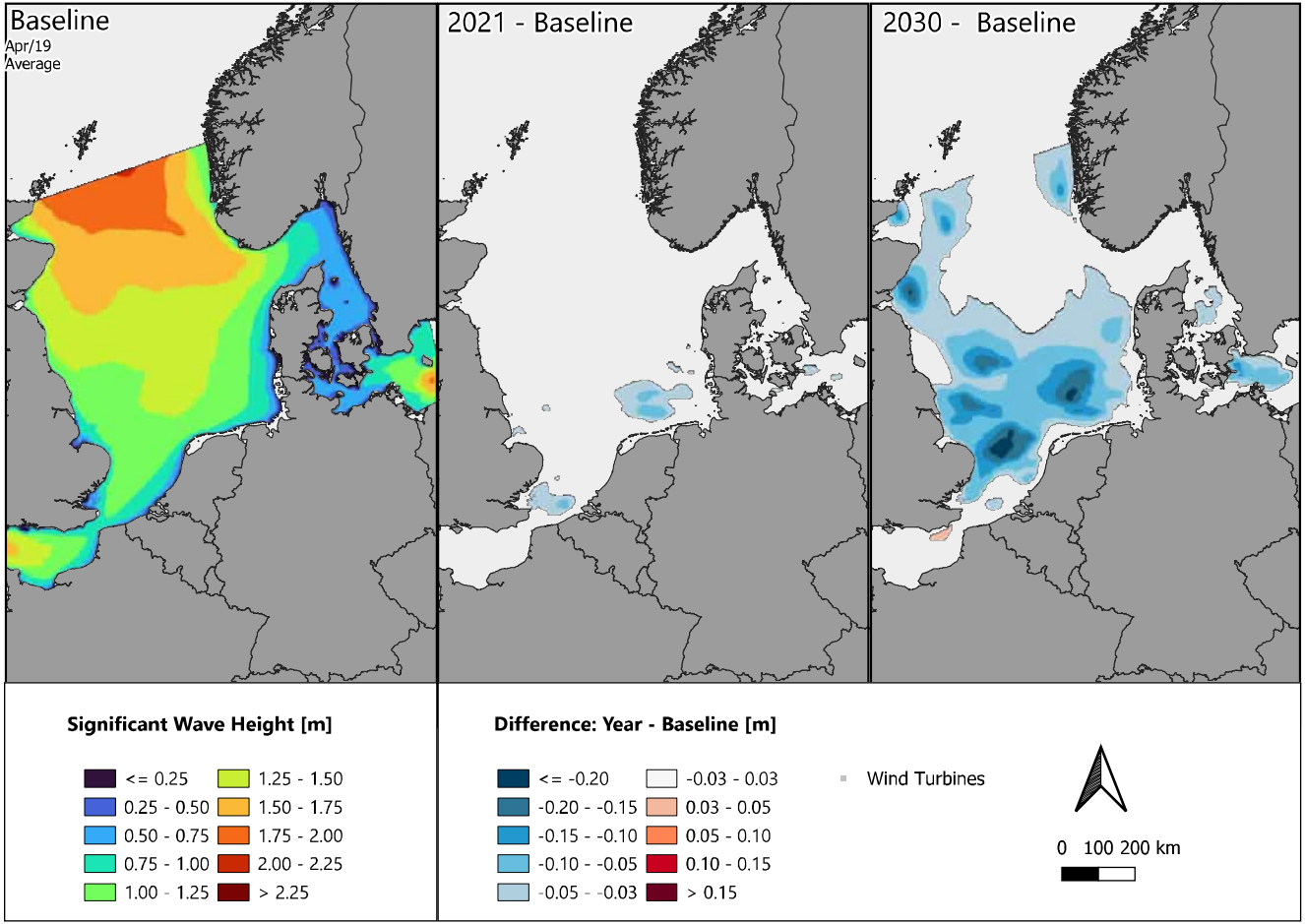
- Averaged (monthly or yearly) Significant Wave Height, H_{m0}, simulated without wind farms within the domain namely Baseline scenario (left figure),
- Difference between the averaged H_{m0} simulated with the Current scenario and the Baseline scenario (center figure)
- Difference between the averaged H_{m0} simulated with the Future scenario and the Baseline scenario.

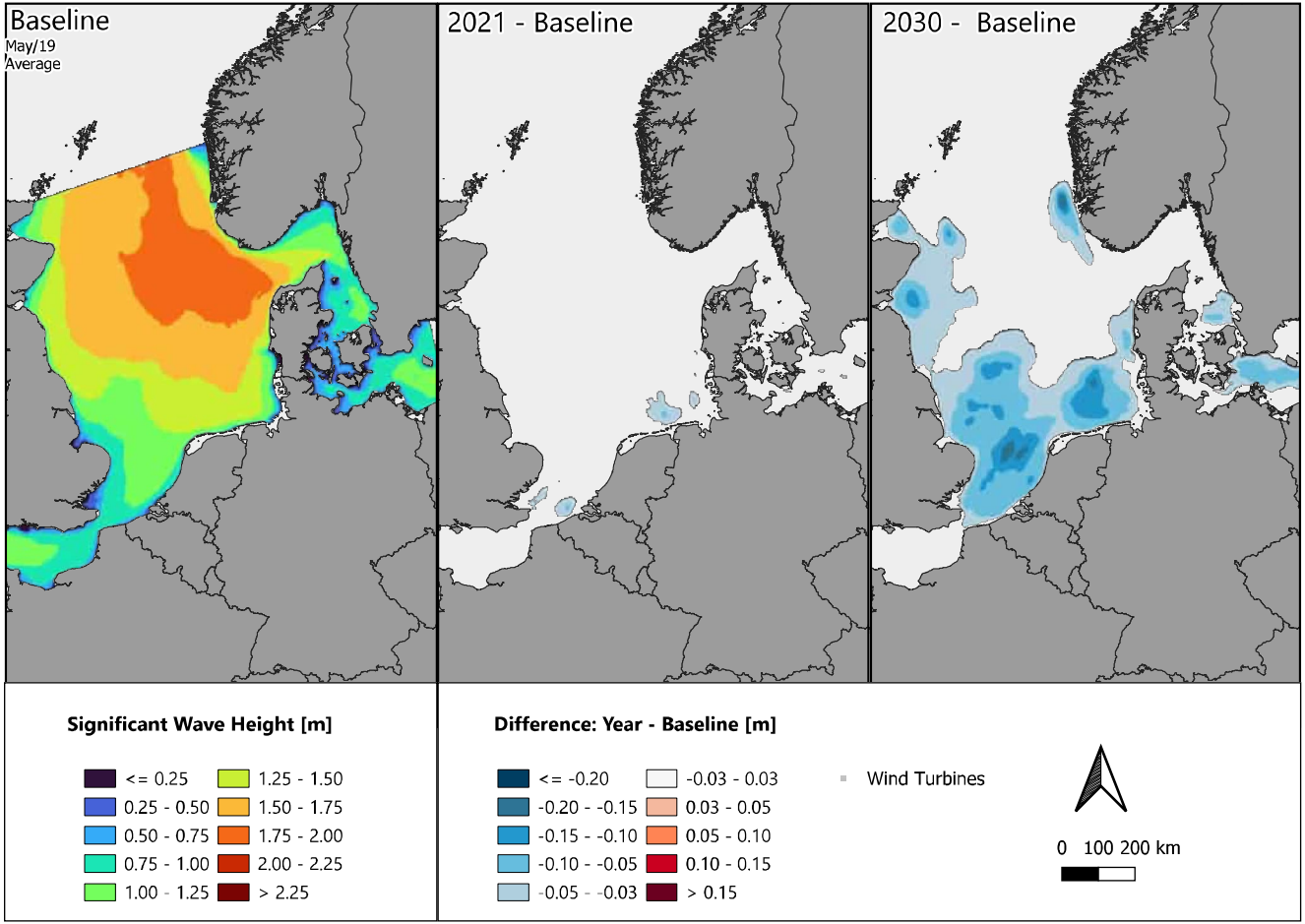

Baseline
Annual 2019
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

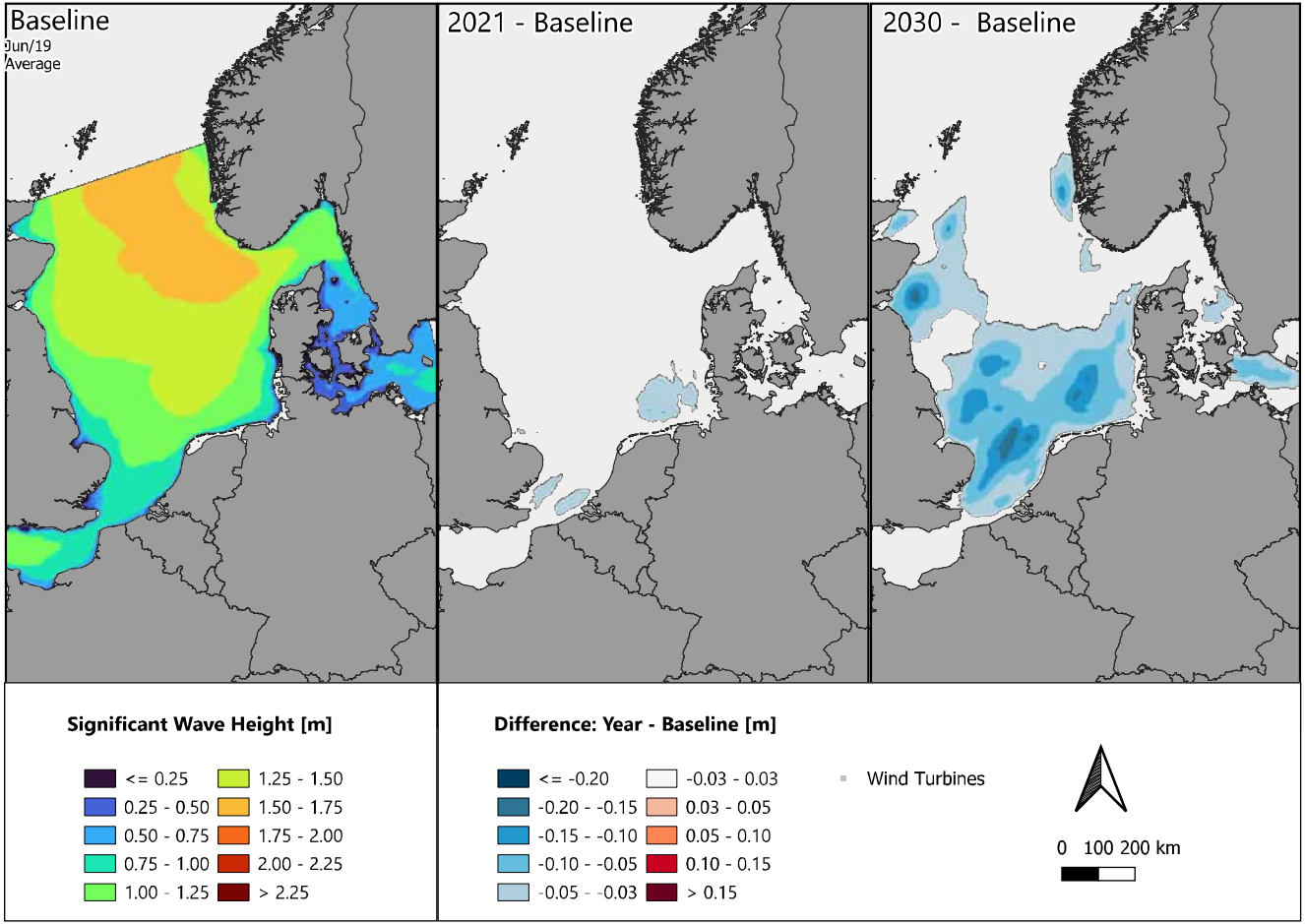

Baseline
Jan/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

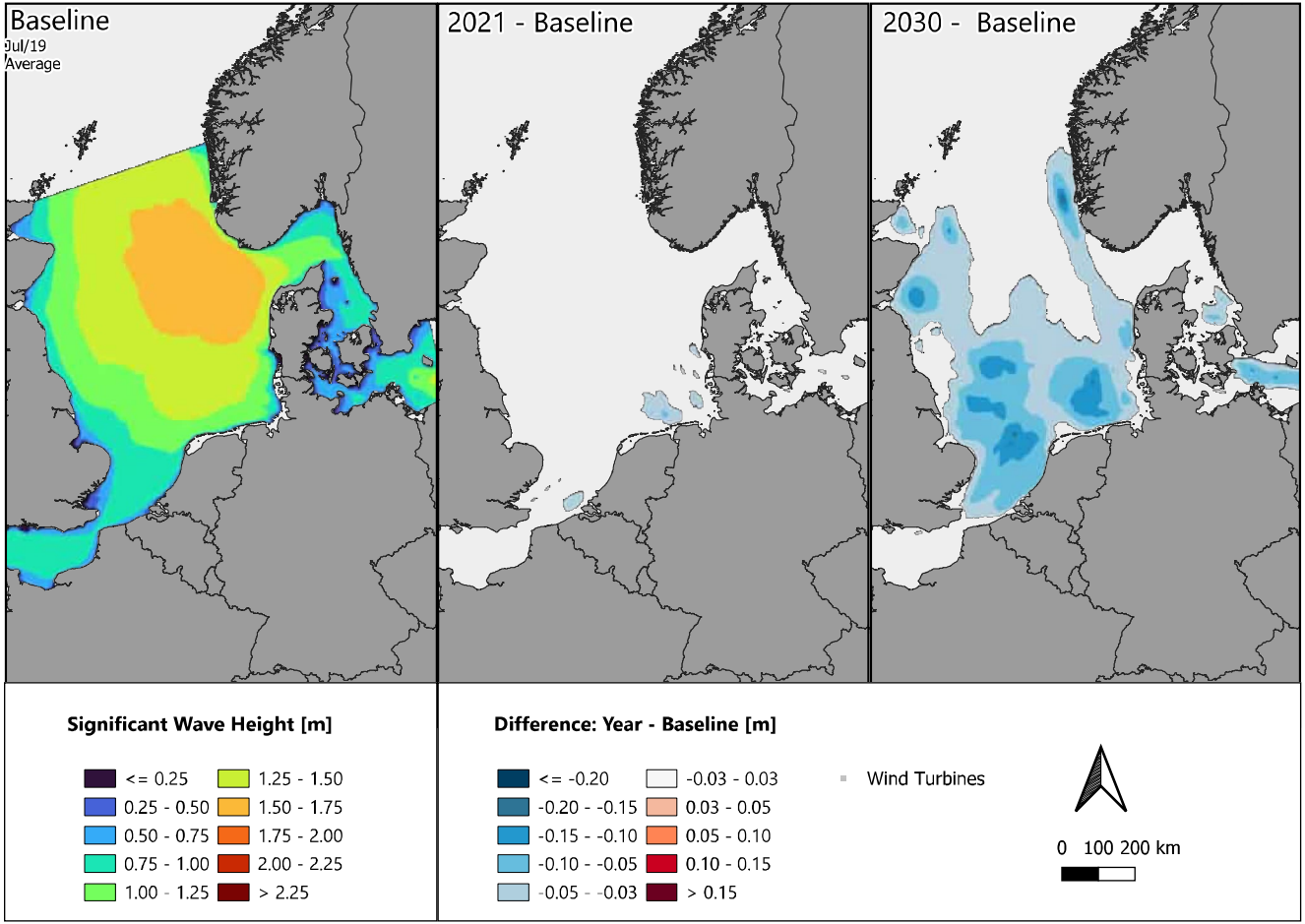

Baseline
Feb/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

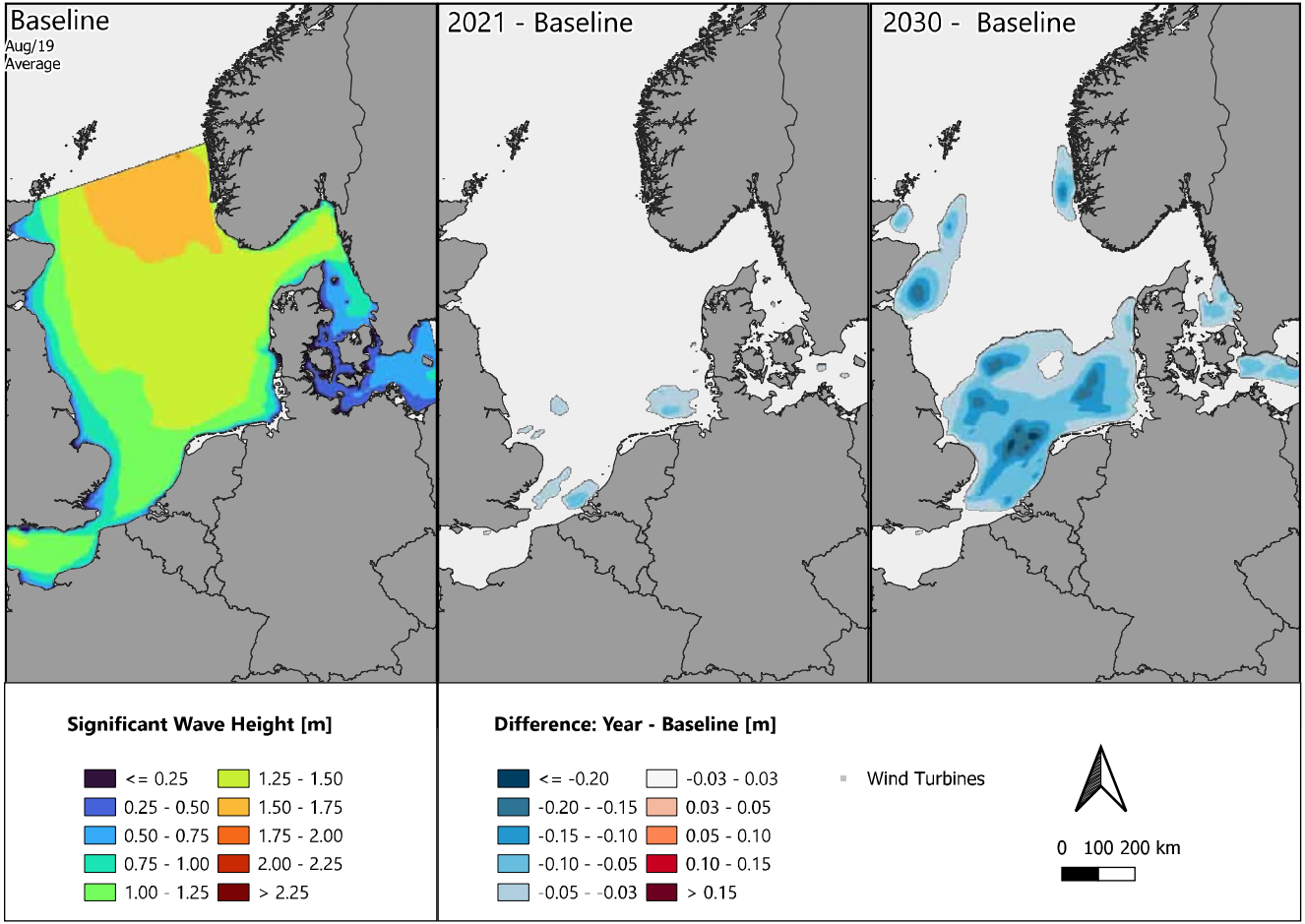

Baseline
Mar/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

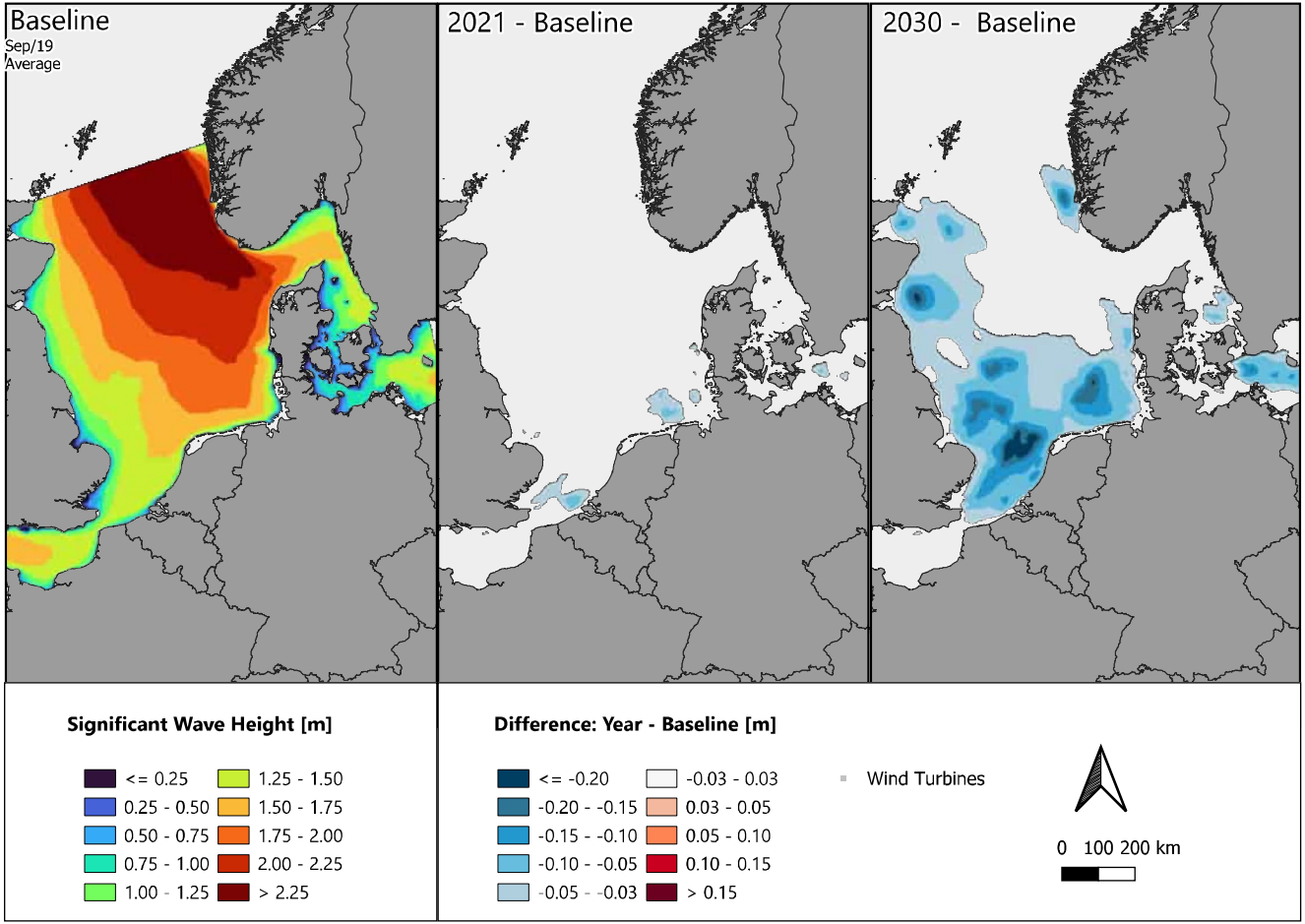

Baseline
Apr/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

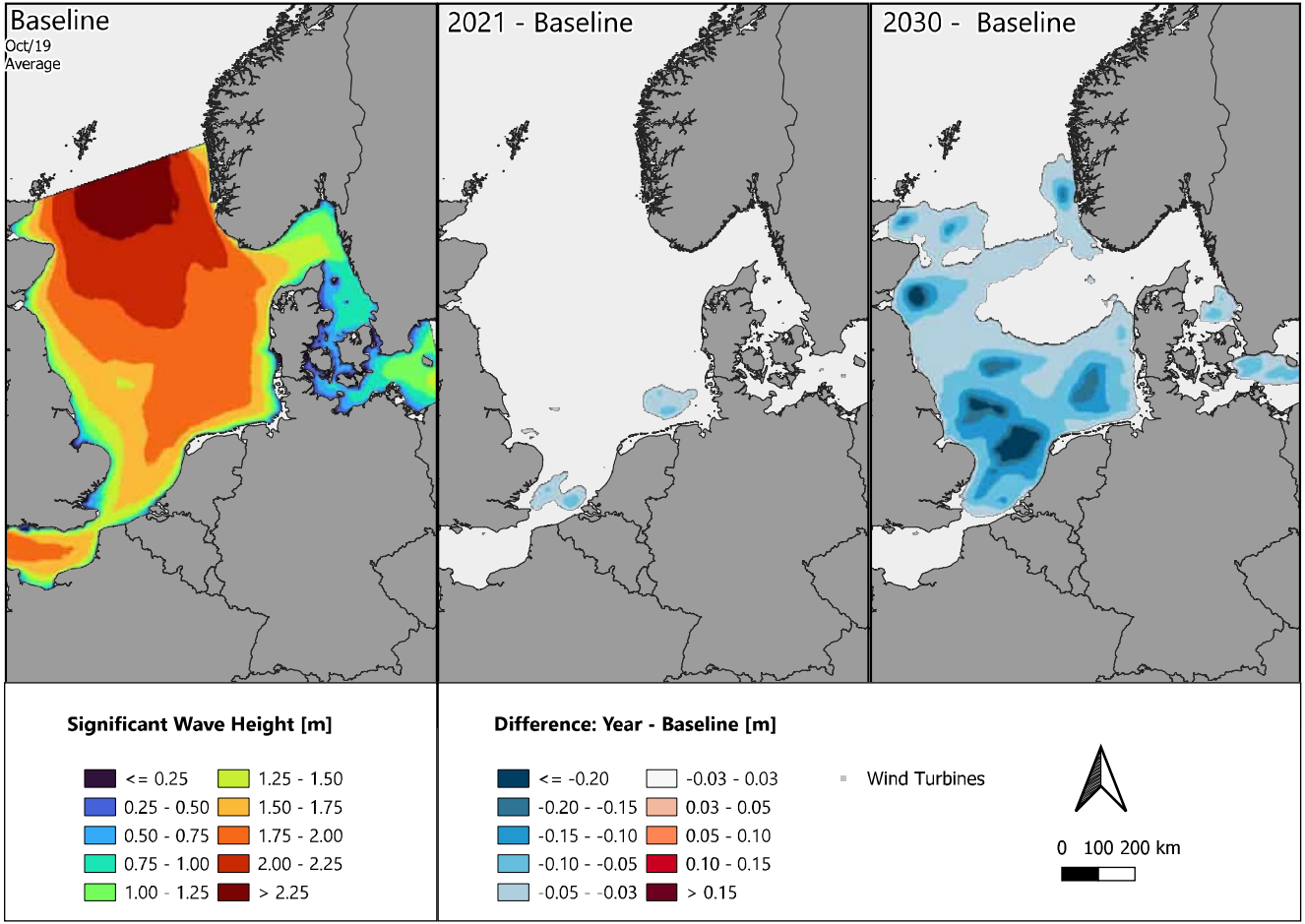

Baseline
May/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

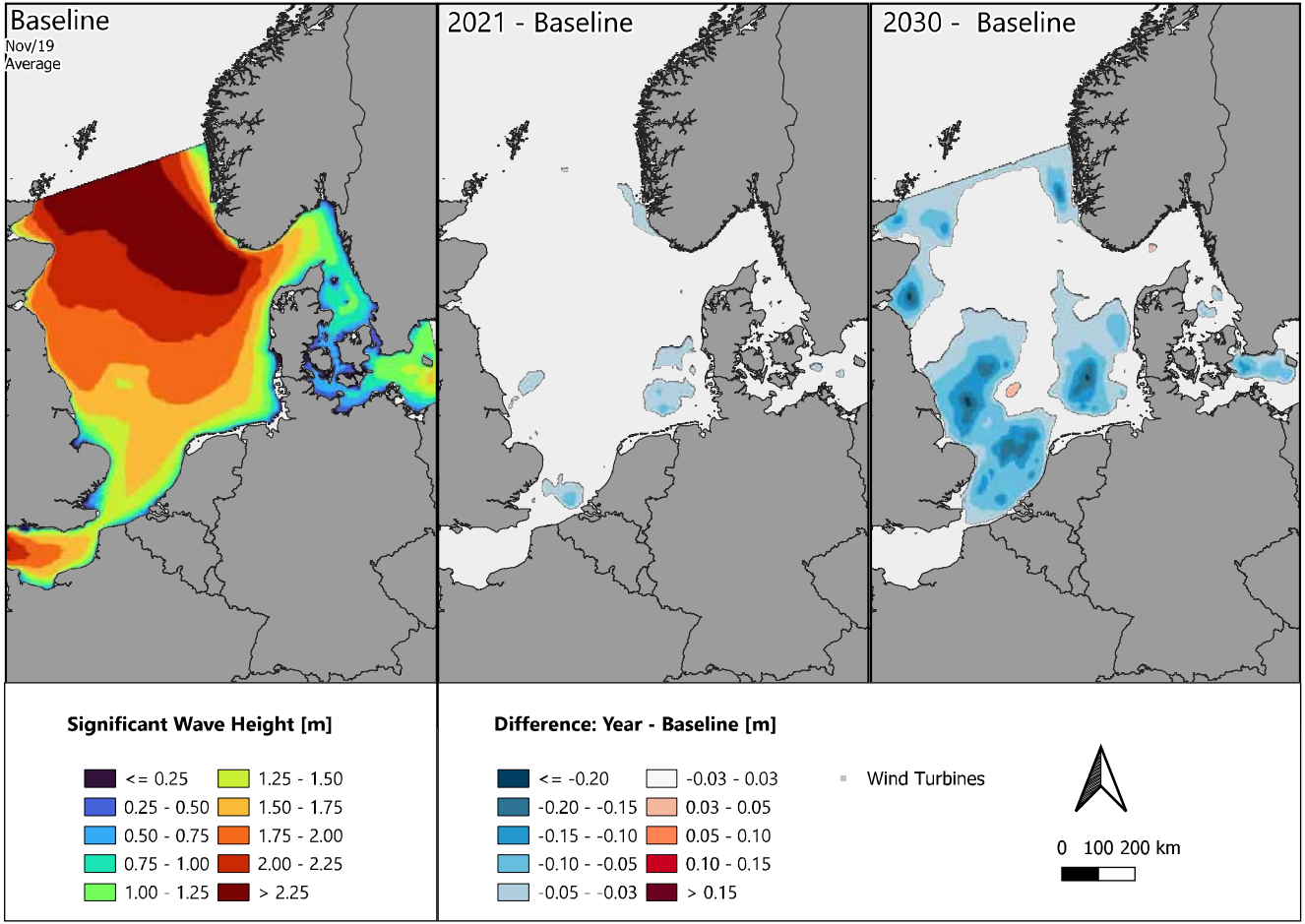

Baseline
Jun/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

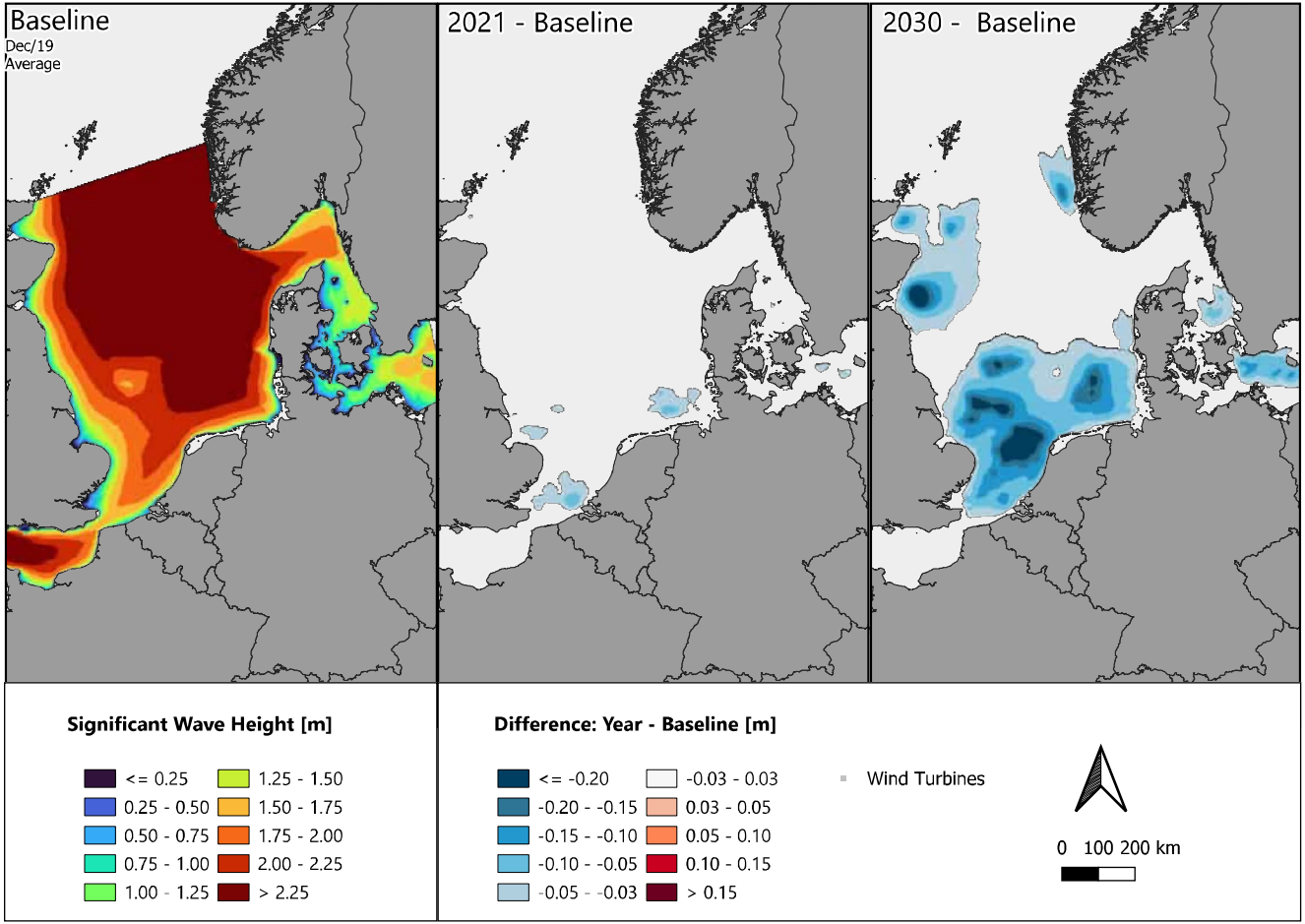

Baseline
Jul/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

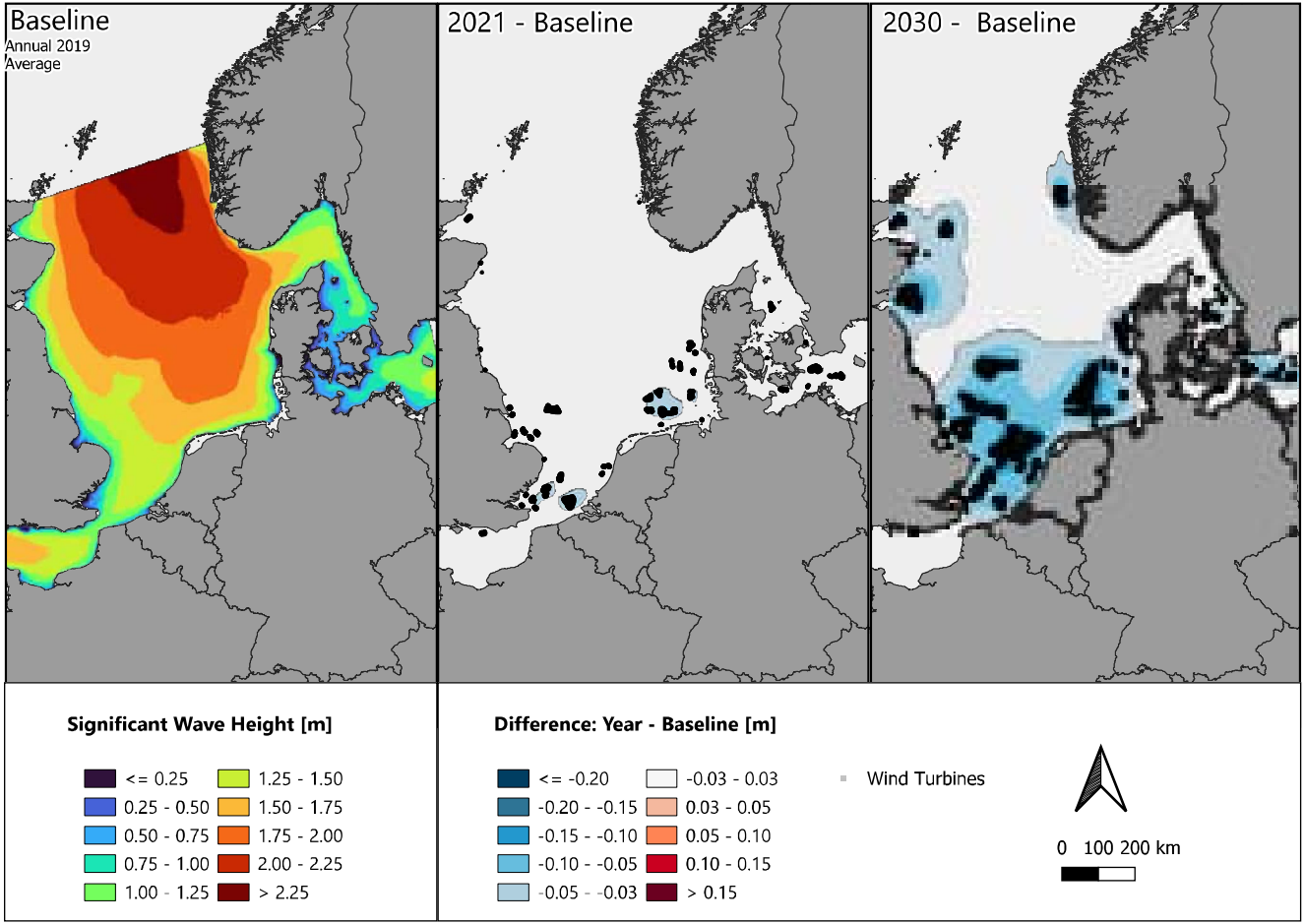

Baseline
Aug/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

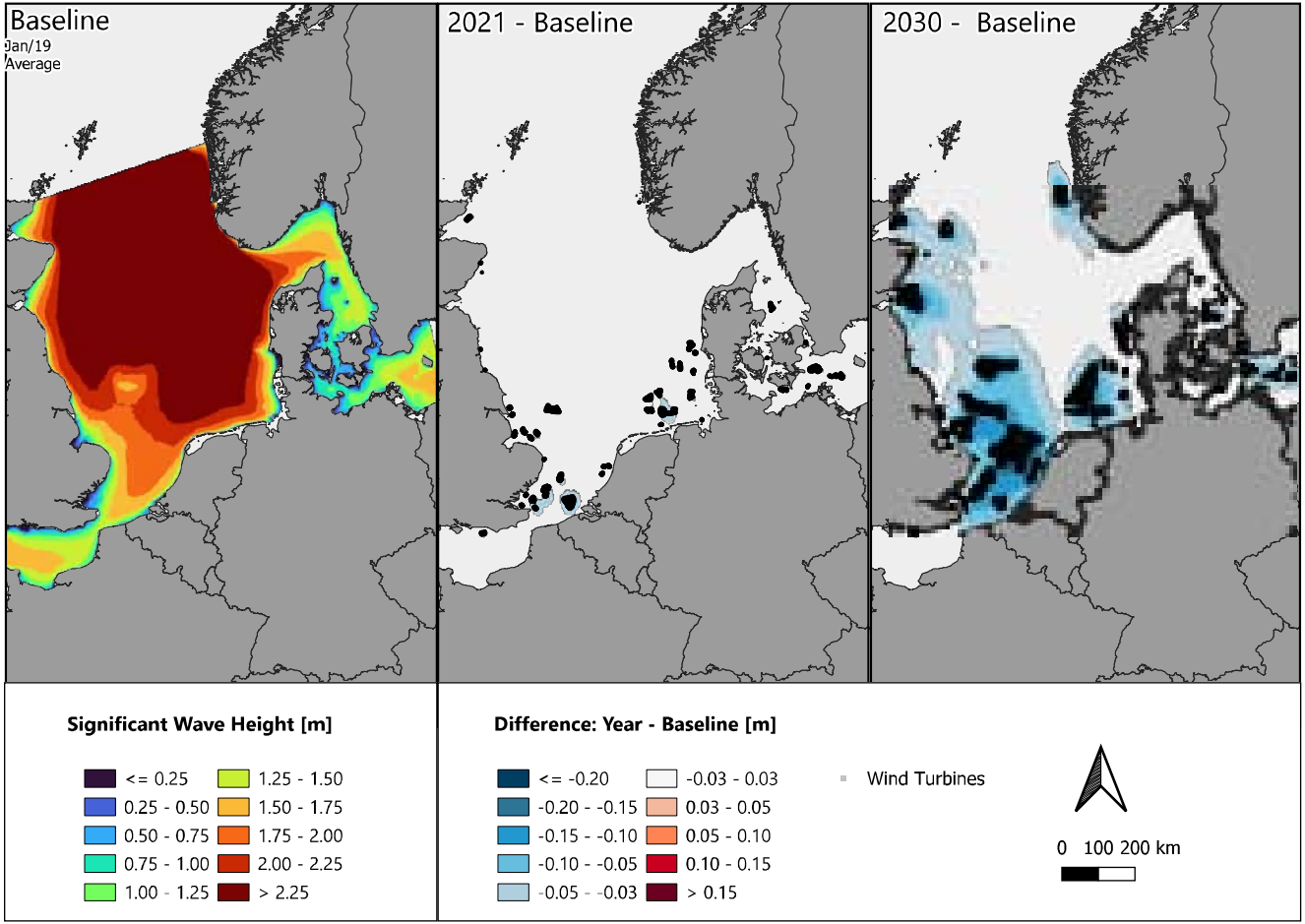

Baseline
Sep/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

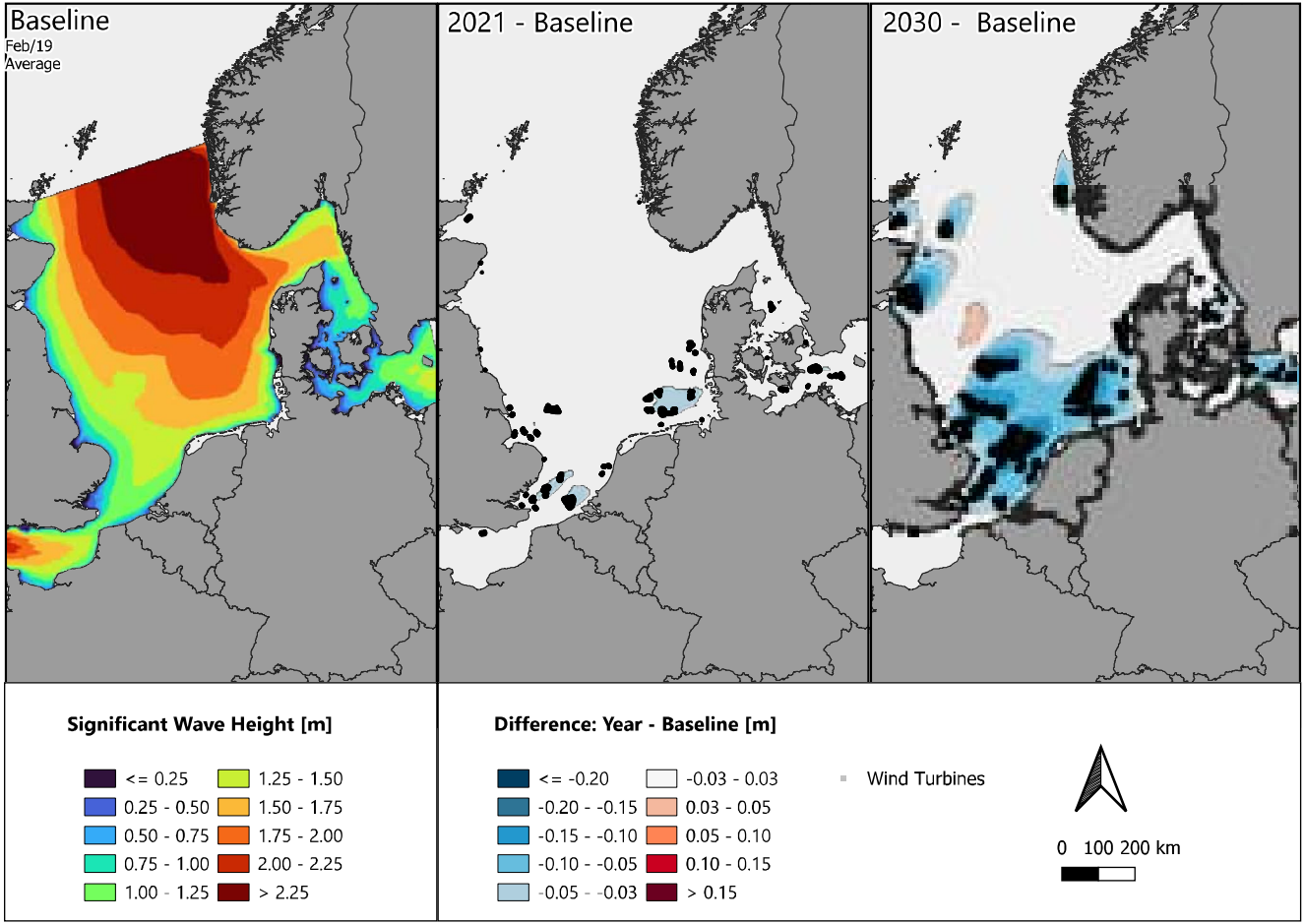

Baseline
Oct/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

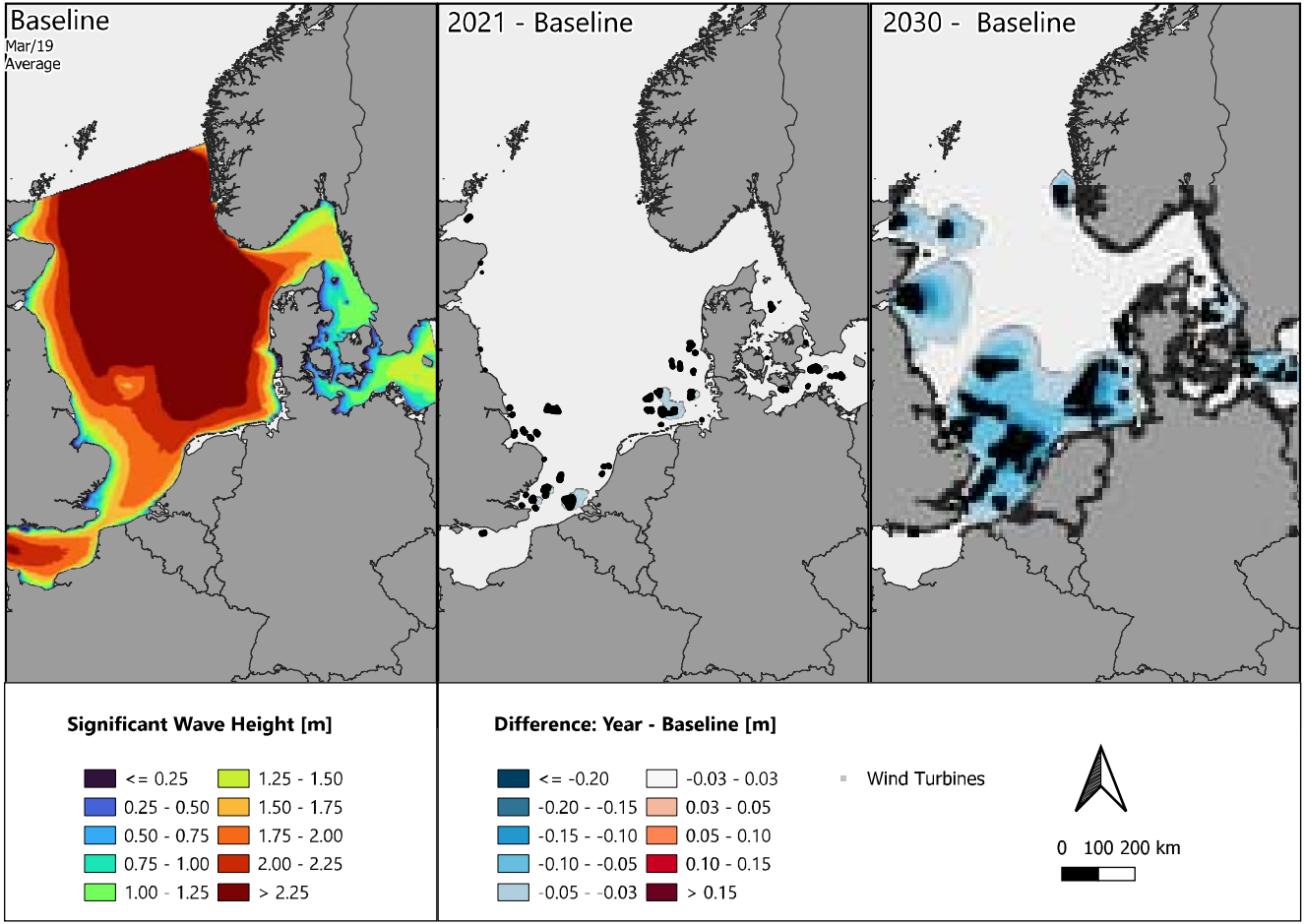

Baseline
Nov/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

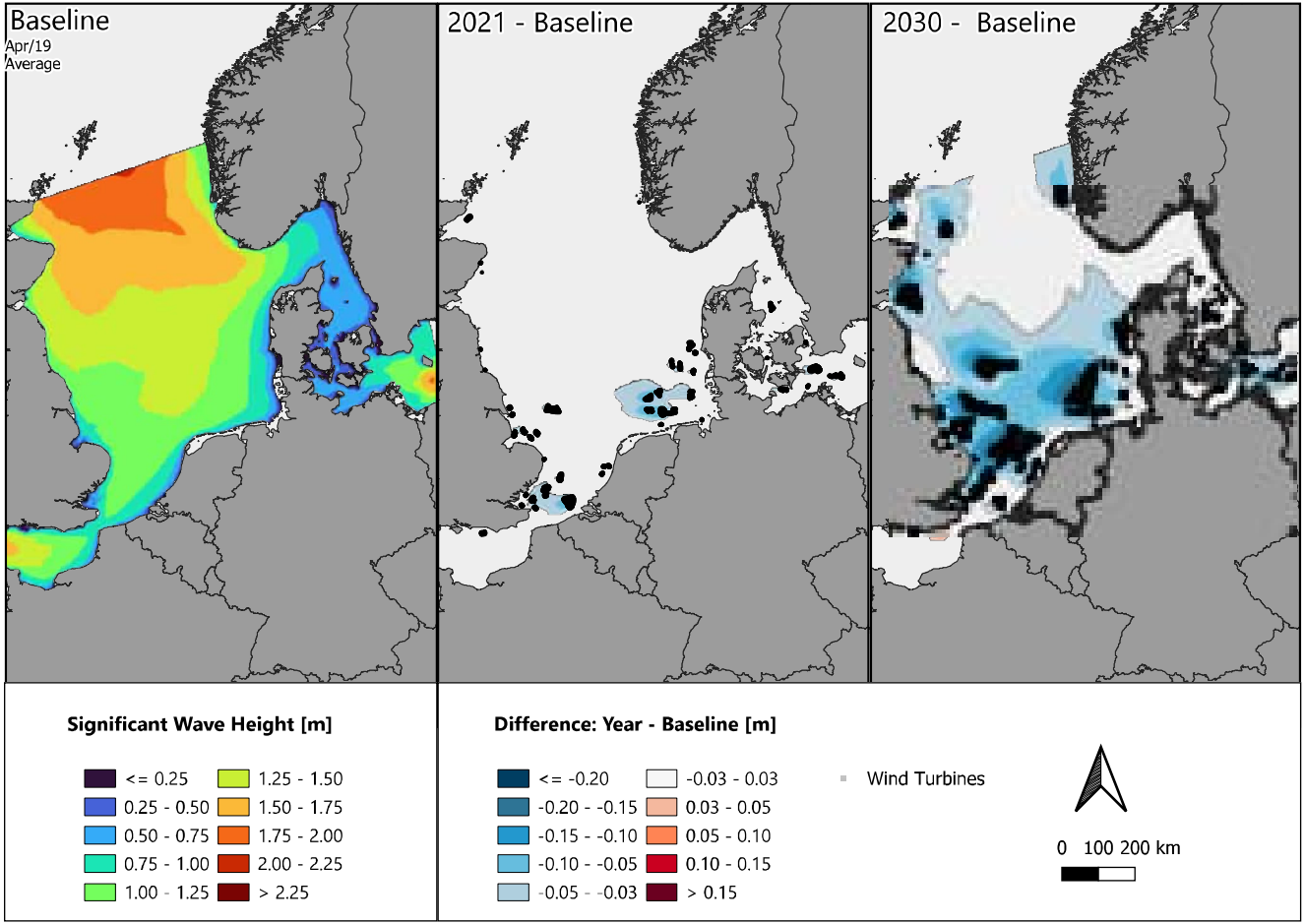

Baseline
Dec/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

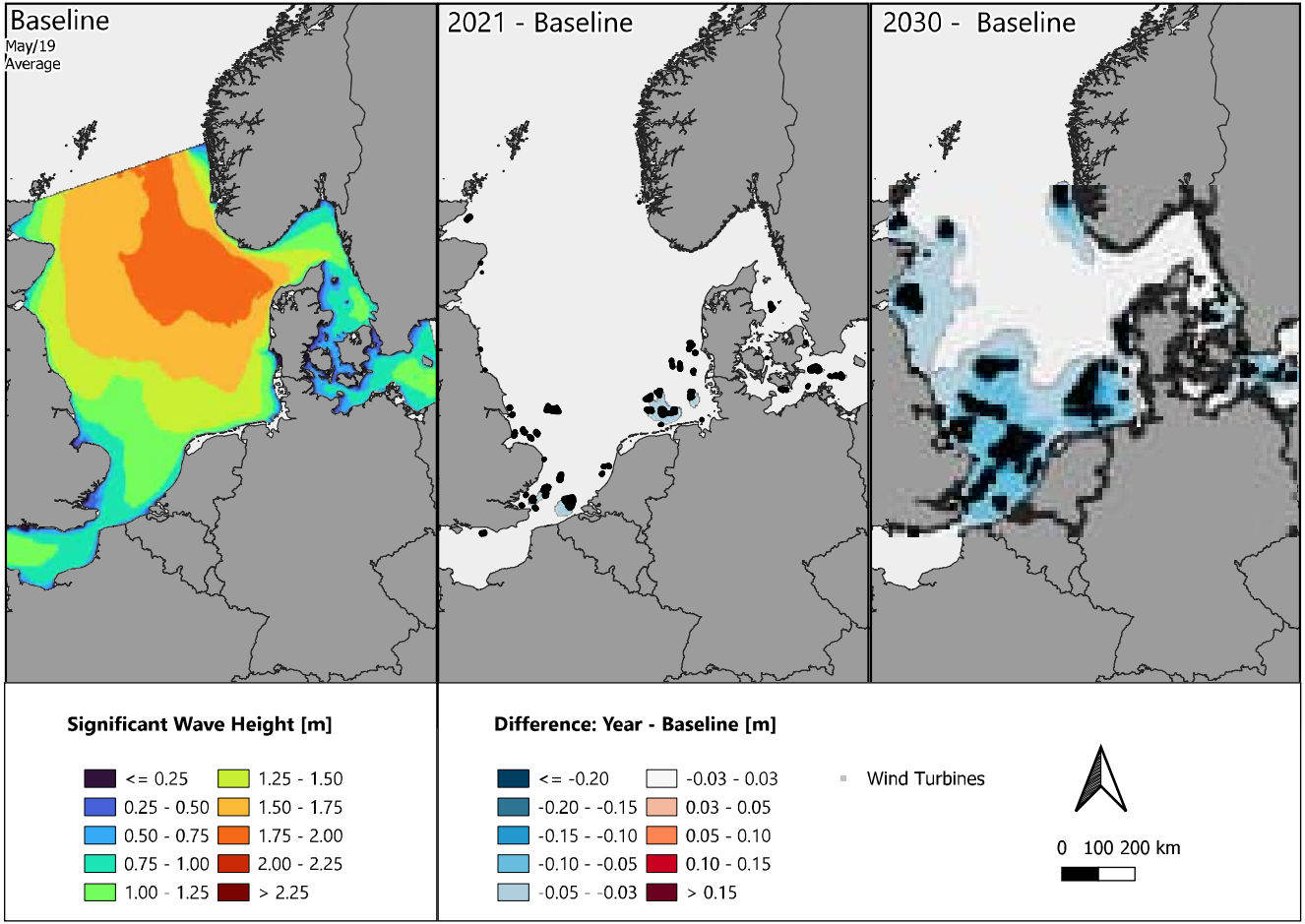

Baseline
Annual 2019
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

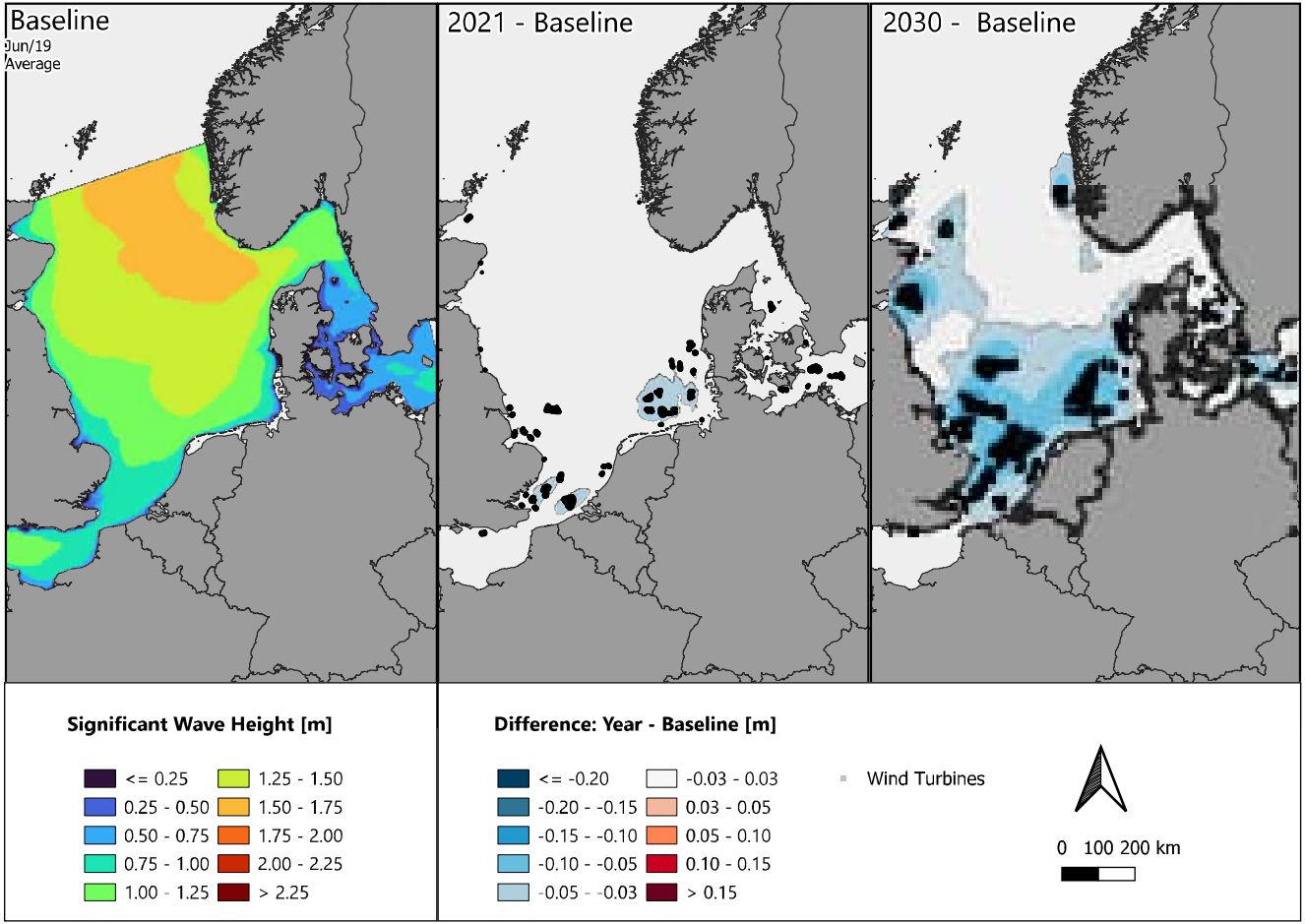

Baseline
Jan/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

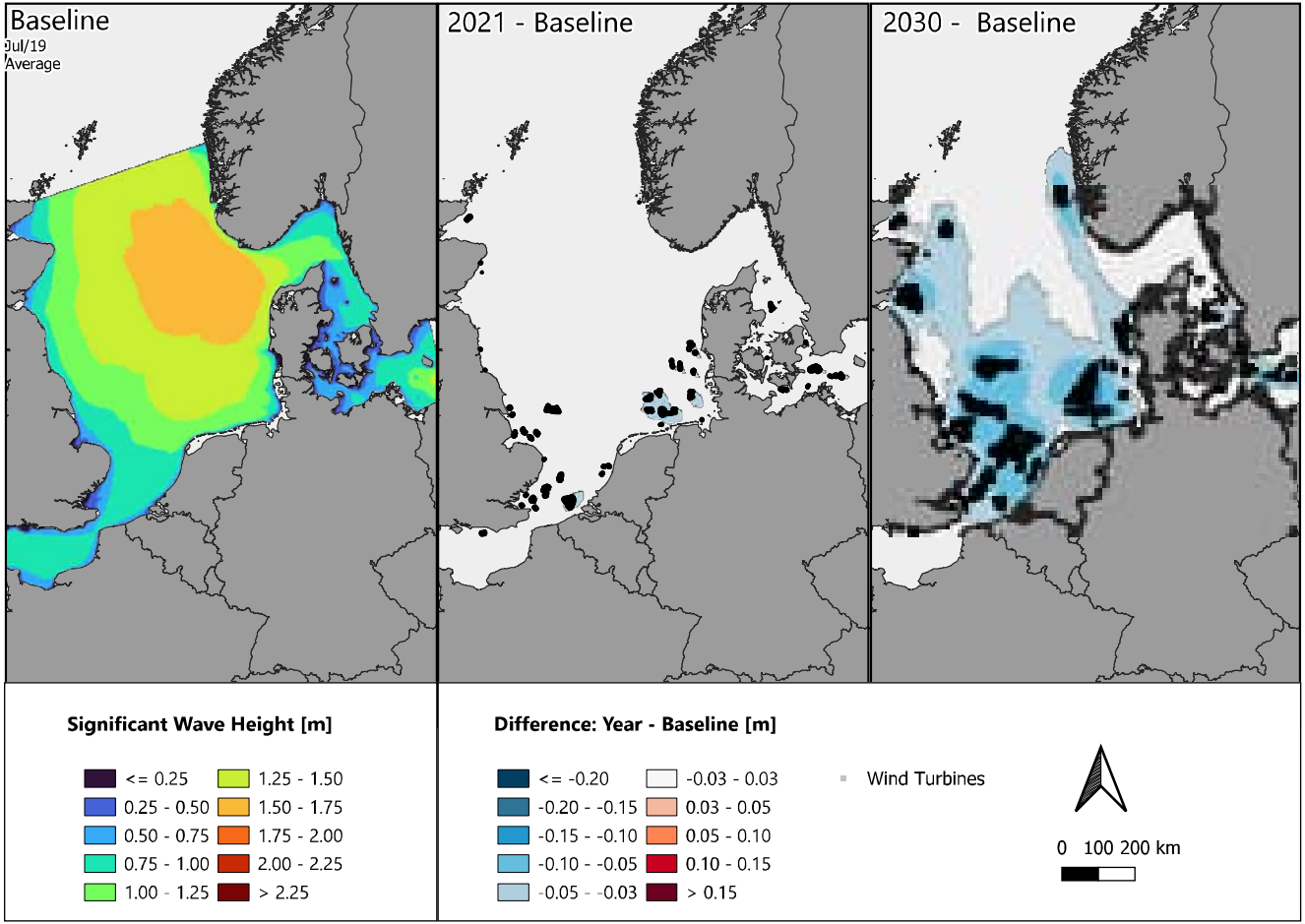

Baseline
Feb/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

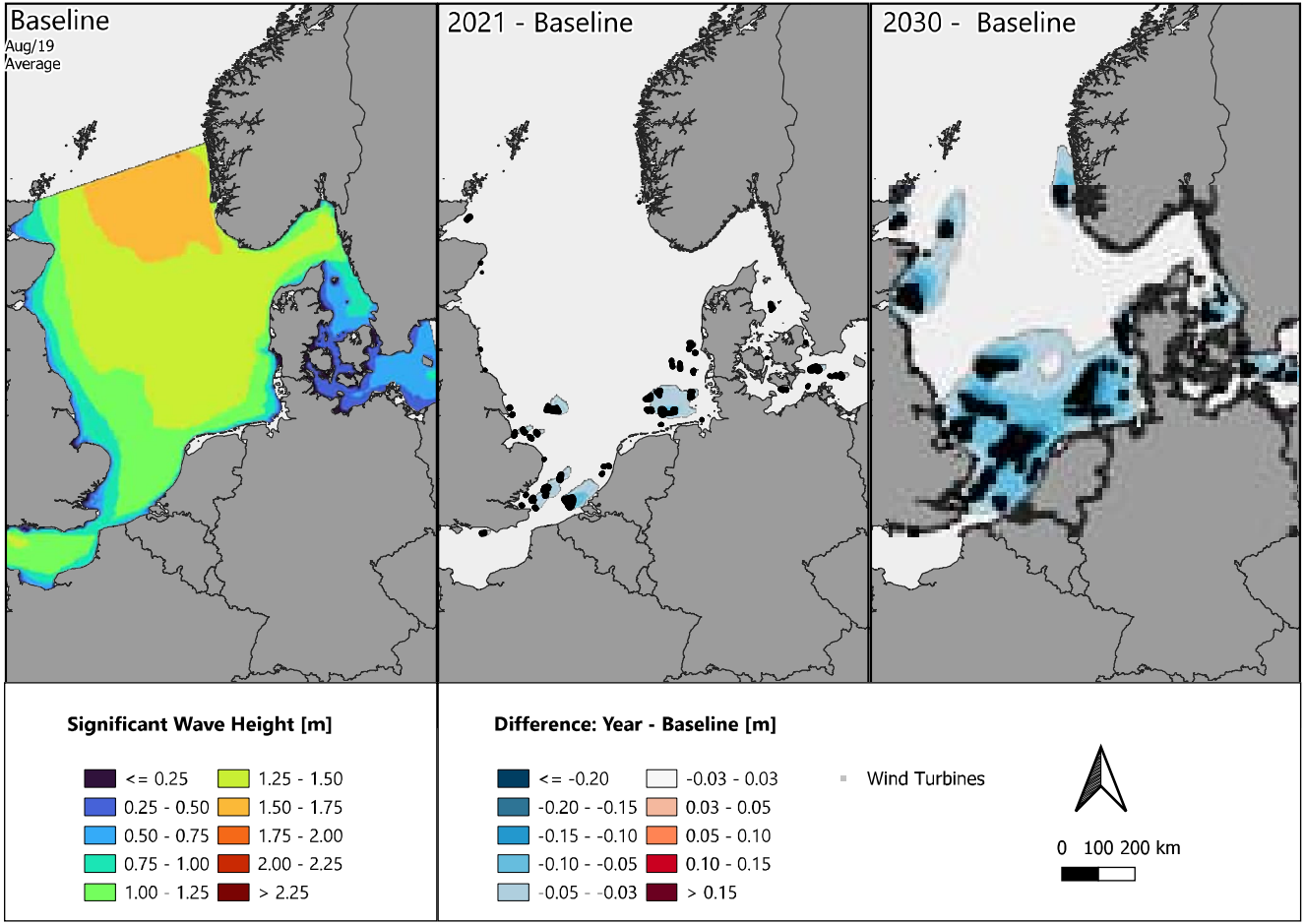

Baseline
Mar/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

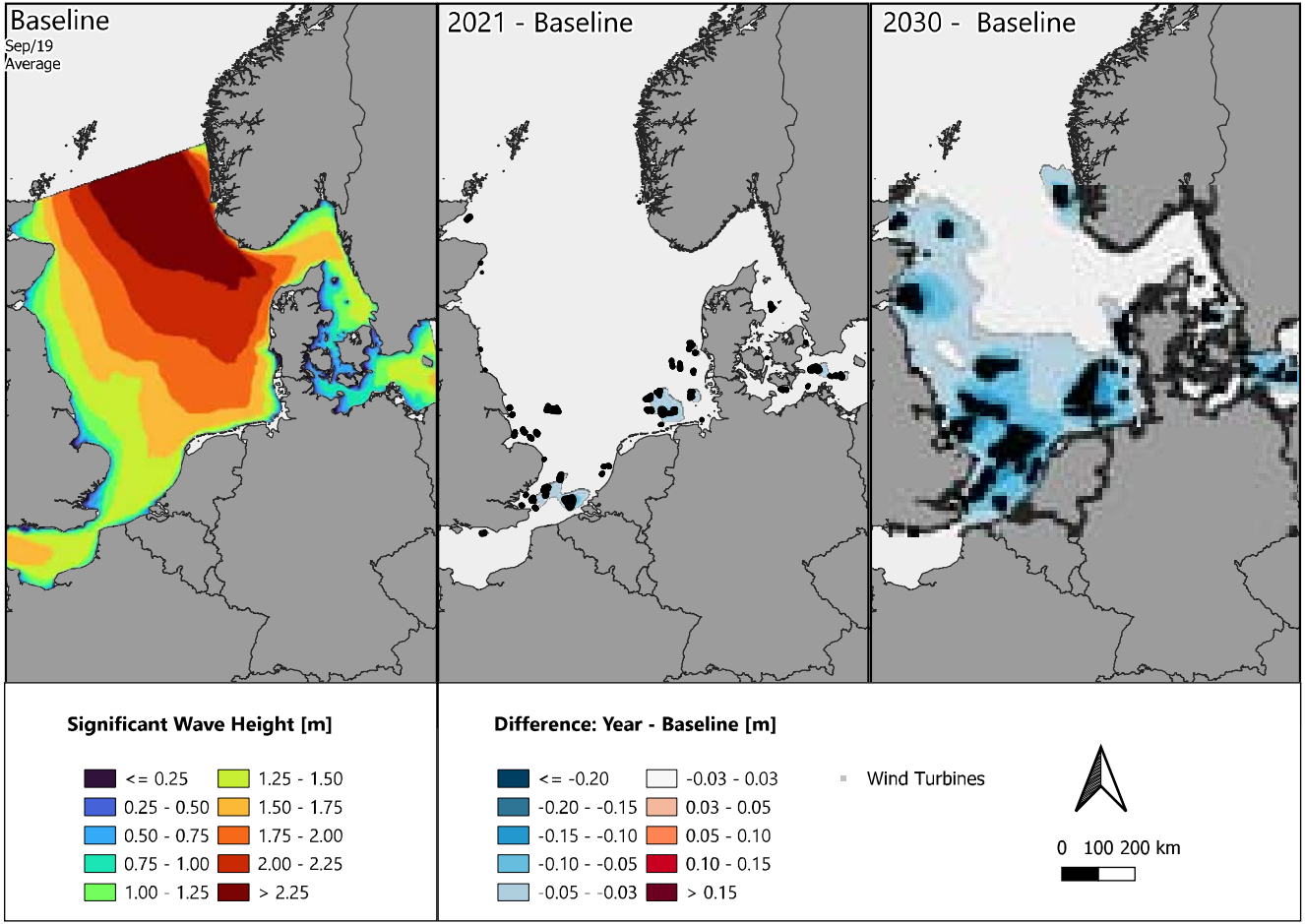

Baseline
Apr/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

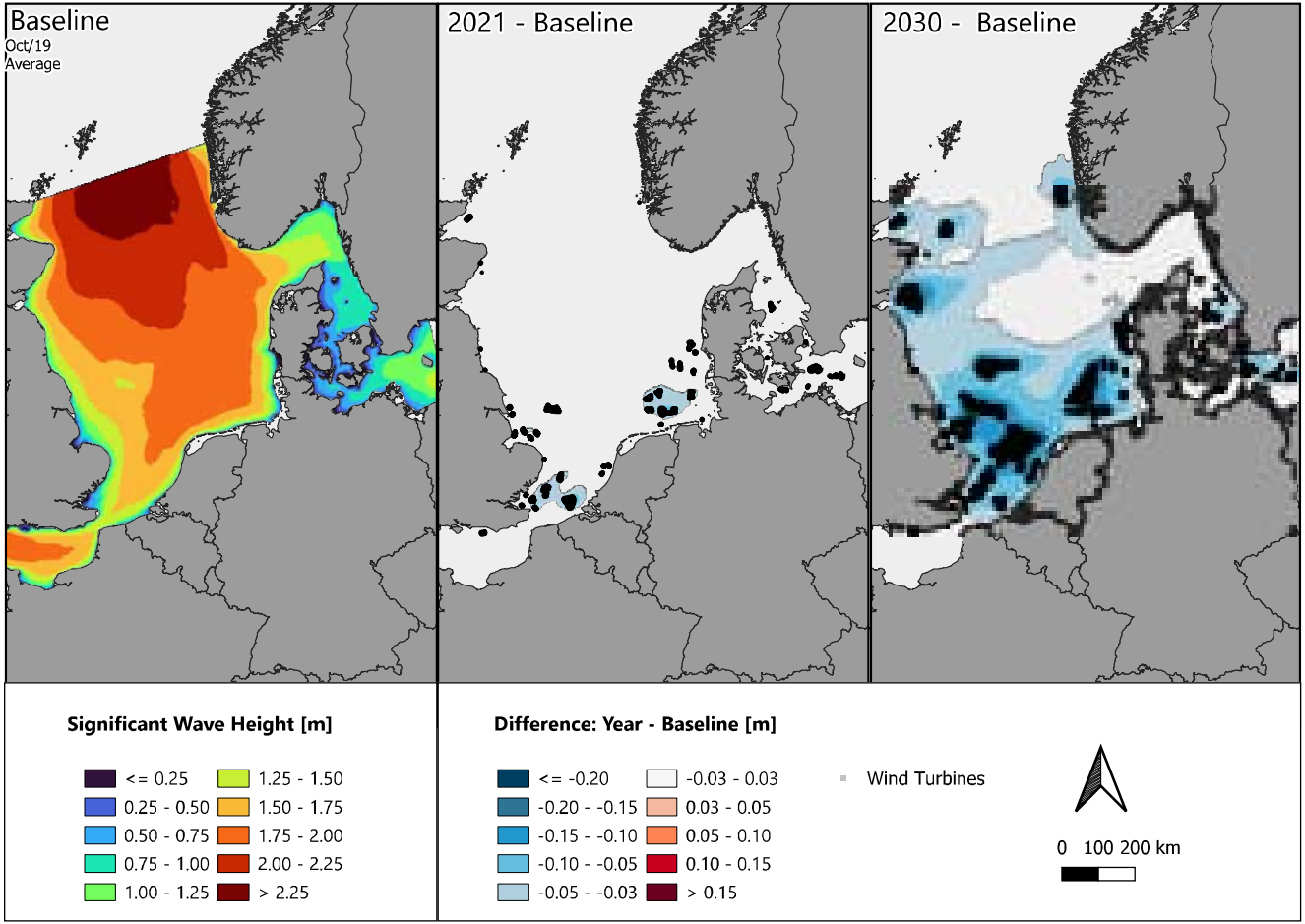

Baseline
May/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

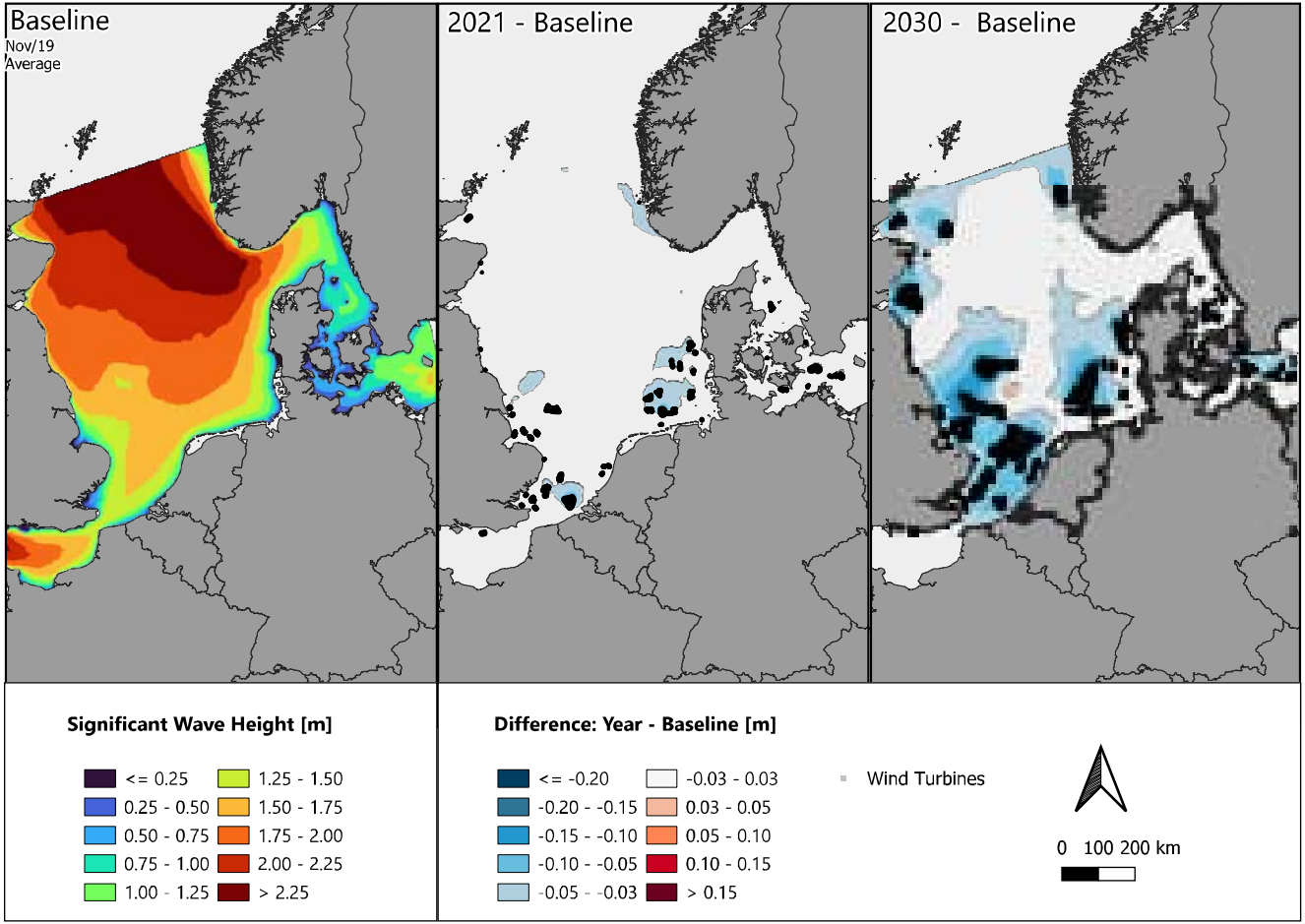

Baseline
Jun/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

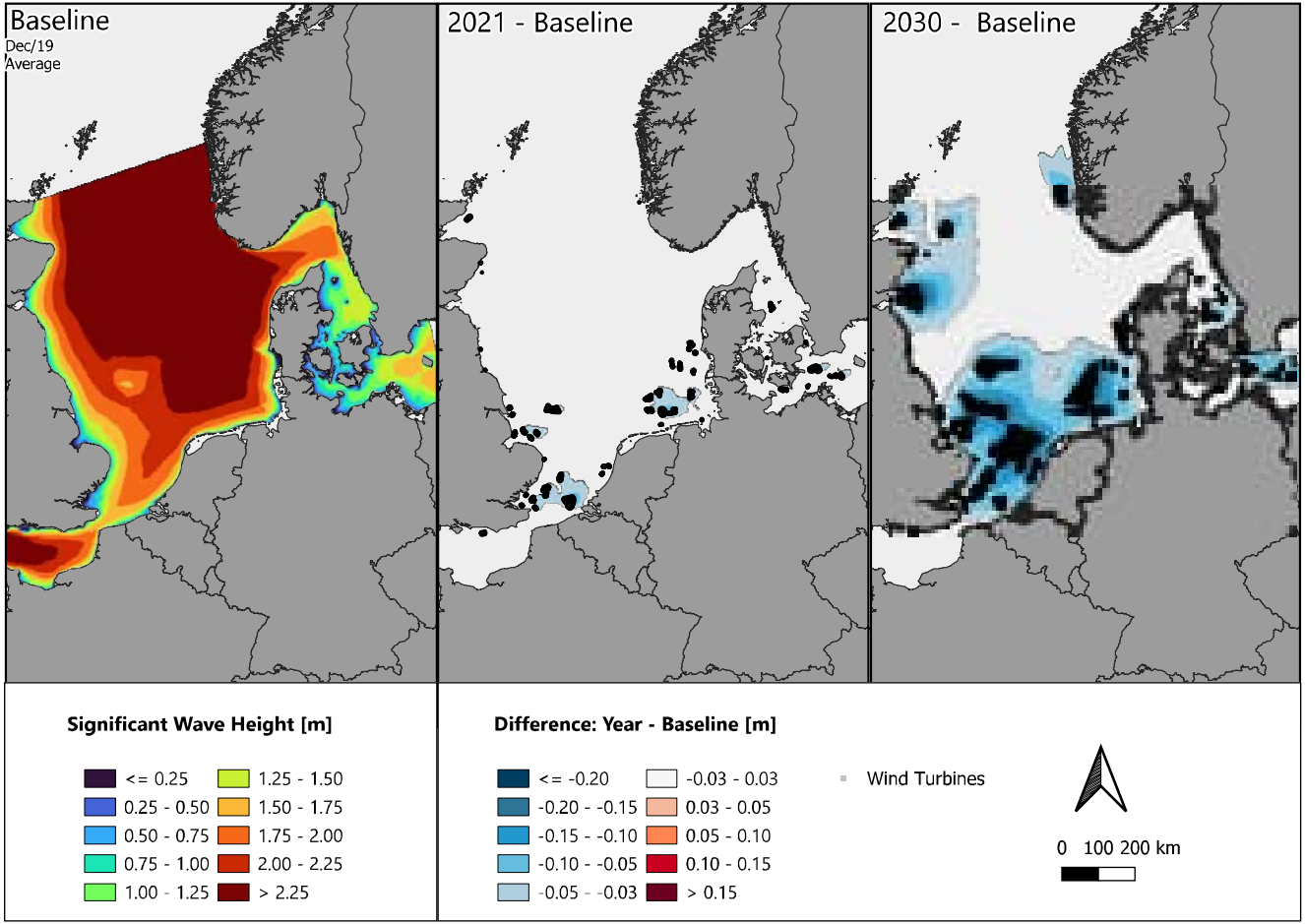

Baseline
Jul/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km


Baseline
Aug/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

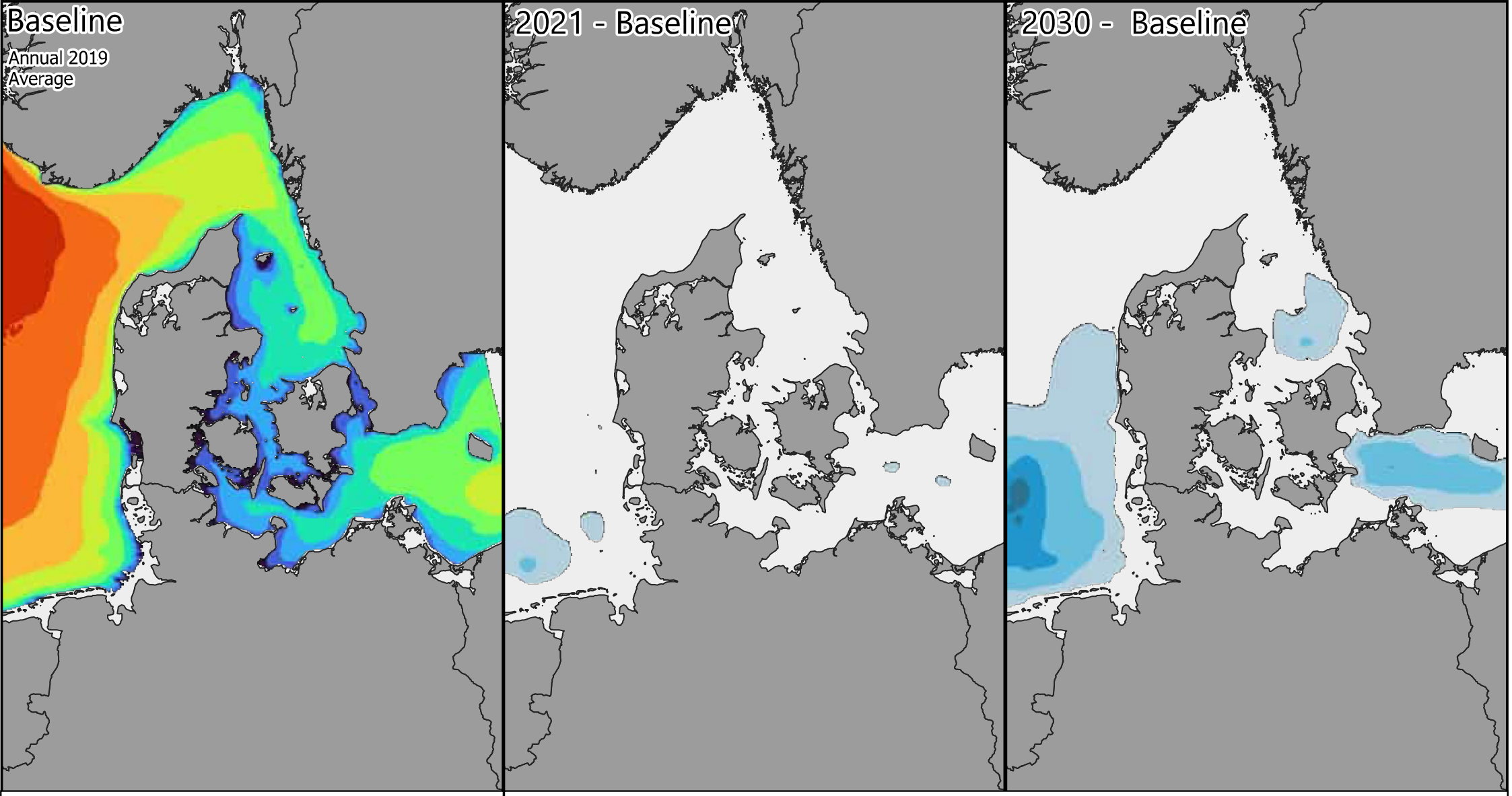

Baseline
Sep/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km


Baseline
Oct/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km


Baseline
Nov/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km


Baseline
Dec/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0 100 200 km

Appendix F: Wind Farms Impact on Spatial Significant on Significant Wave Heights, Danish Waters



Significant Wave Height [m]

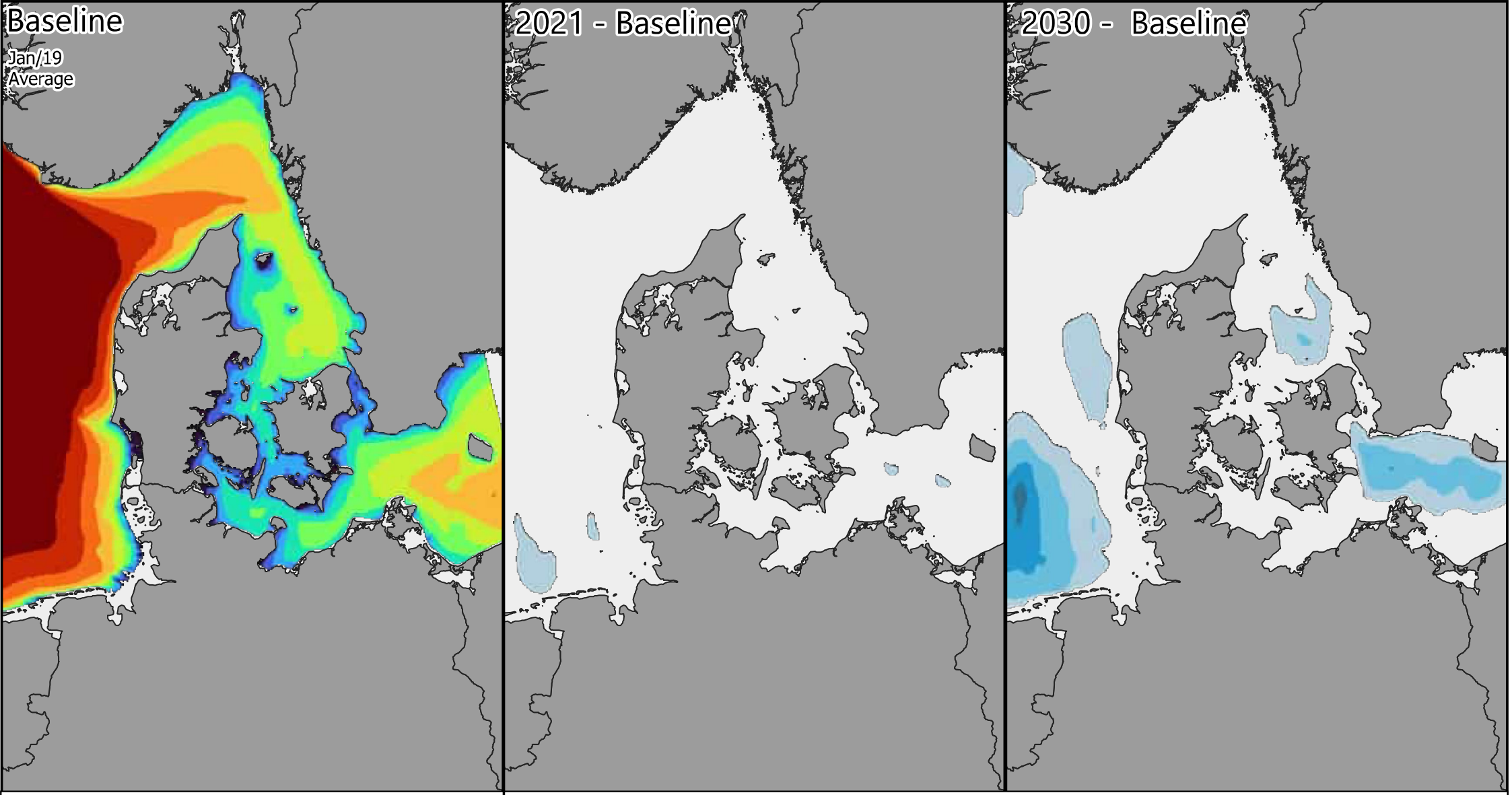
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

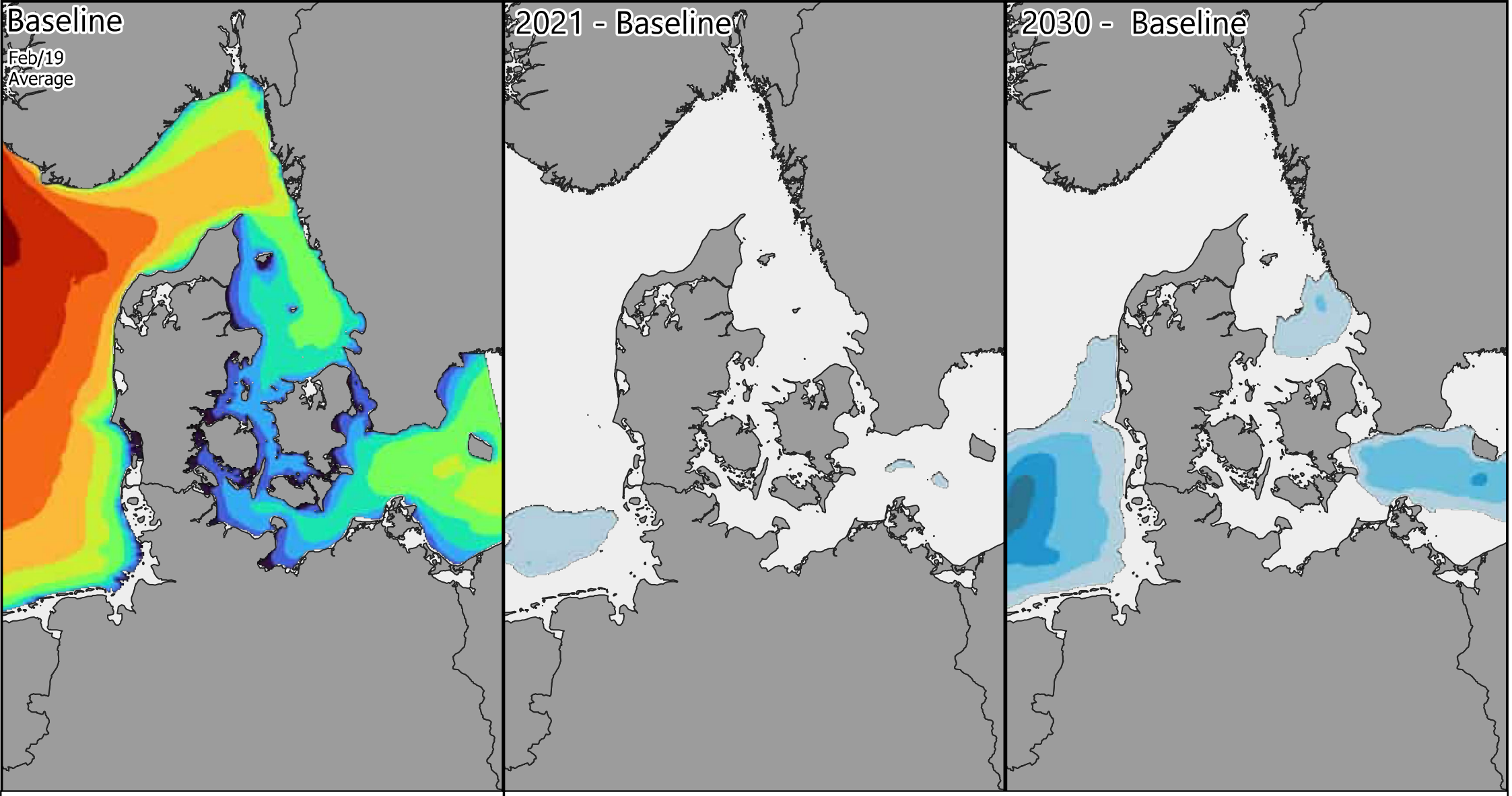
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

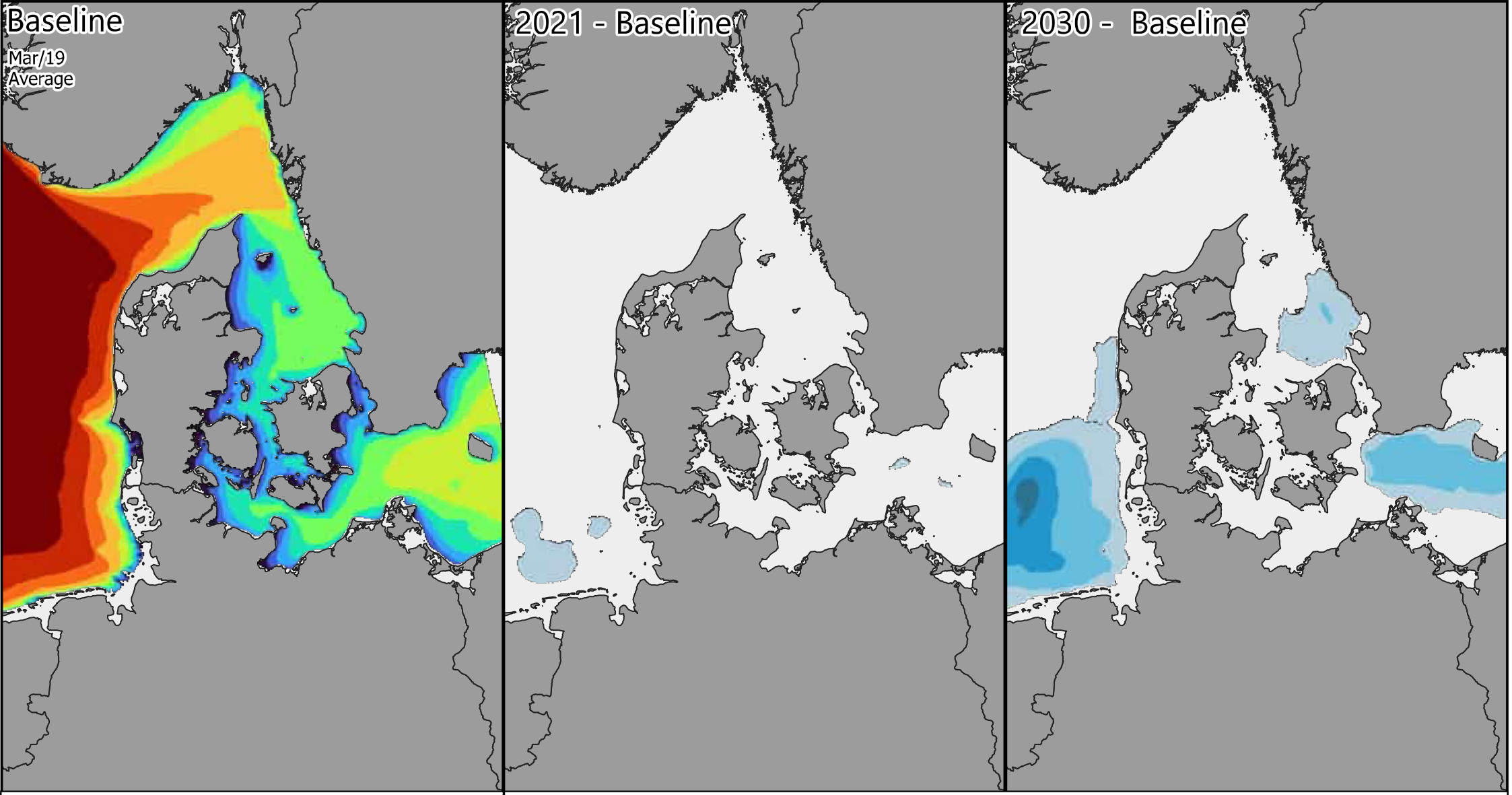
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

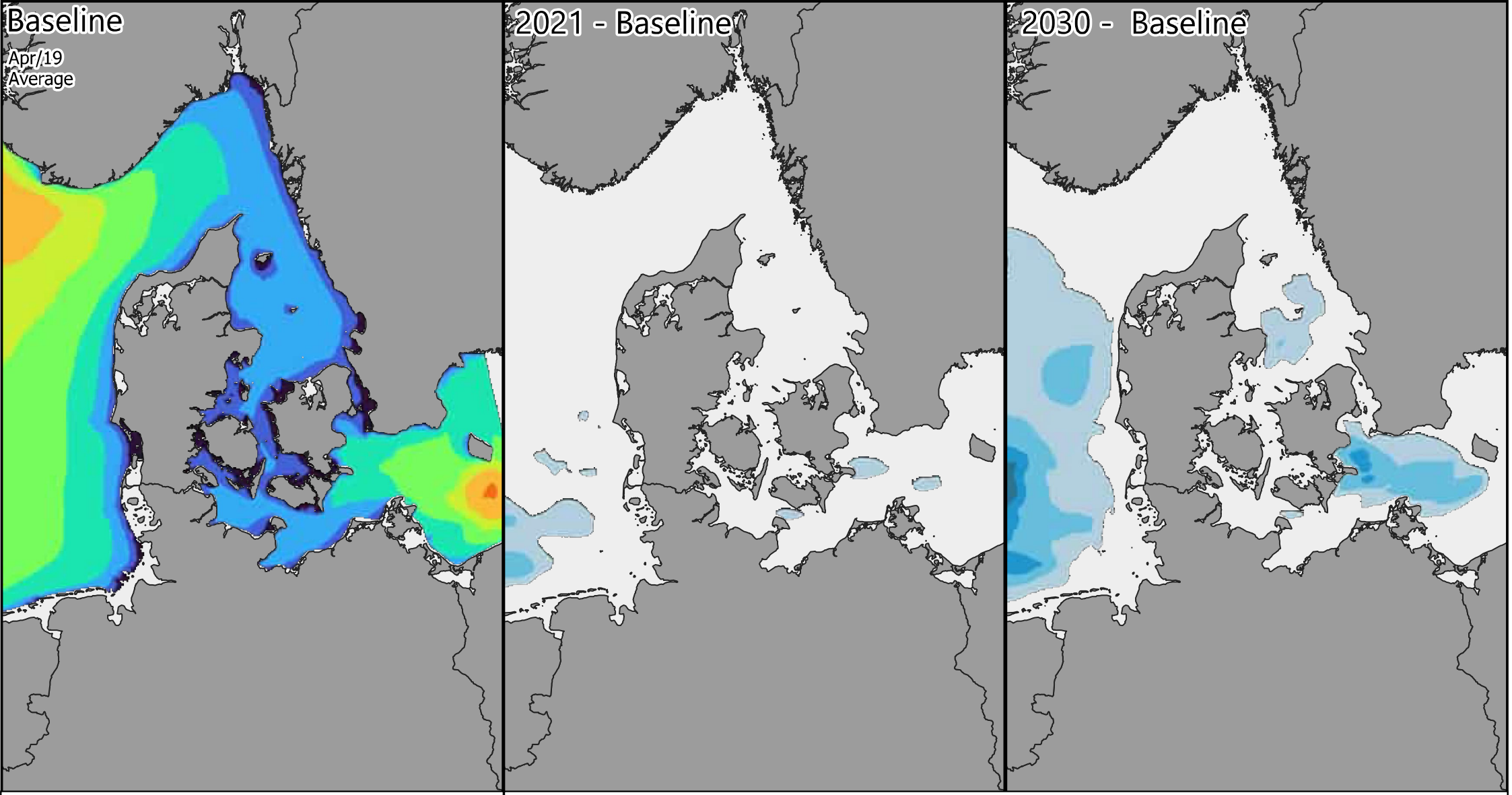
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

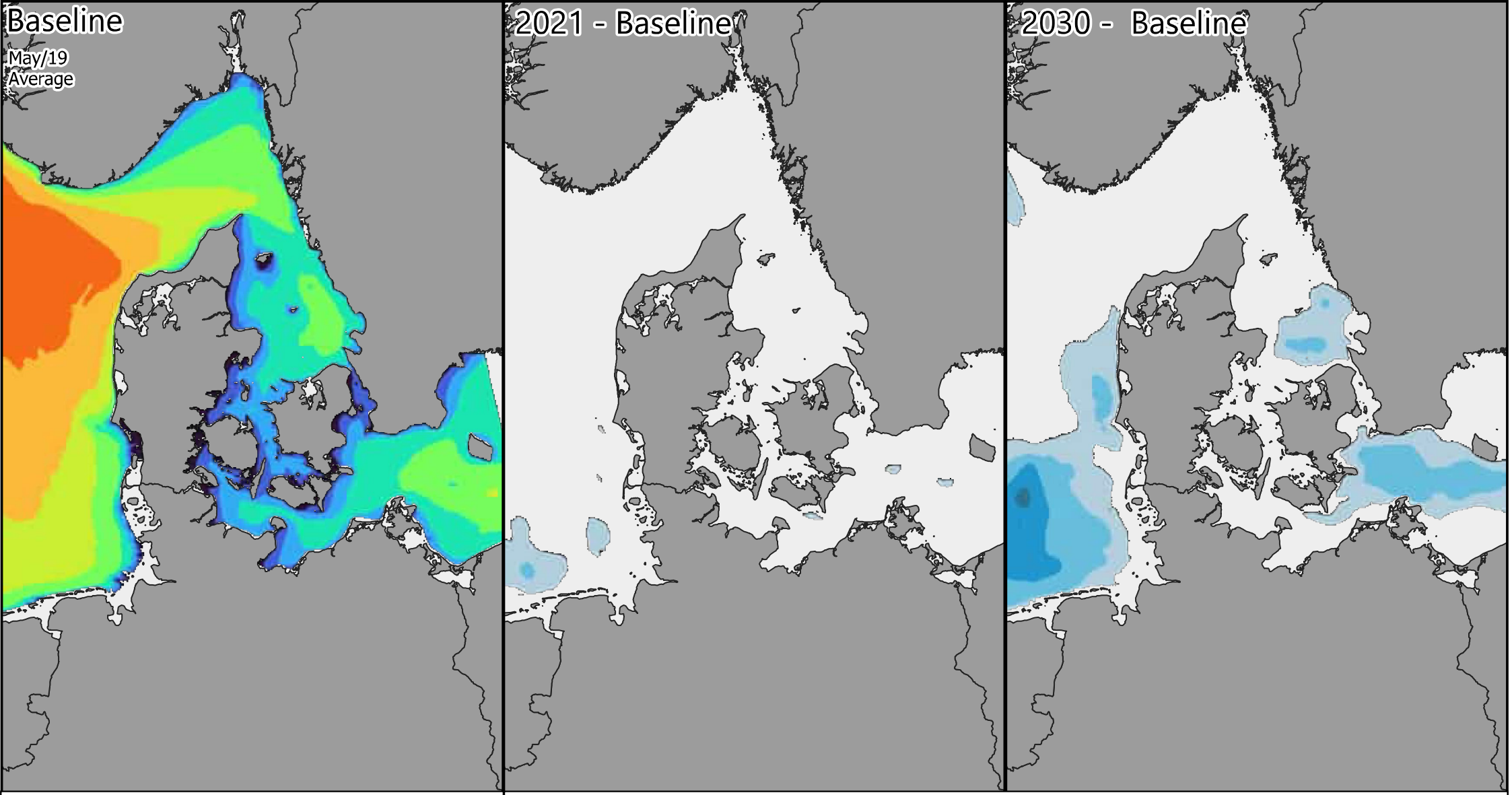
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

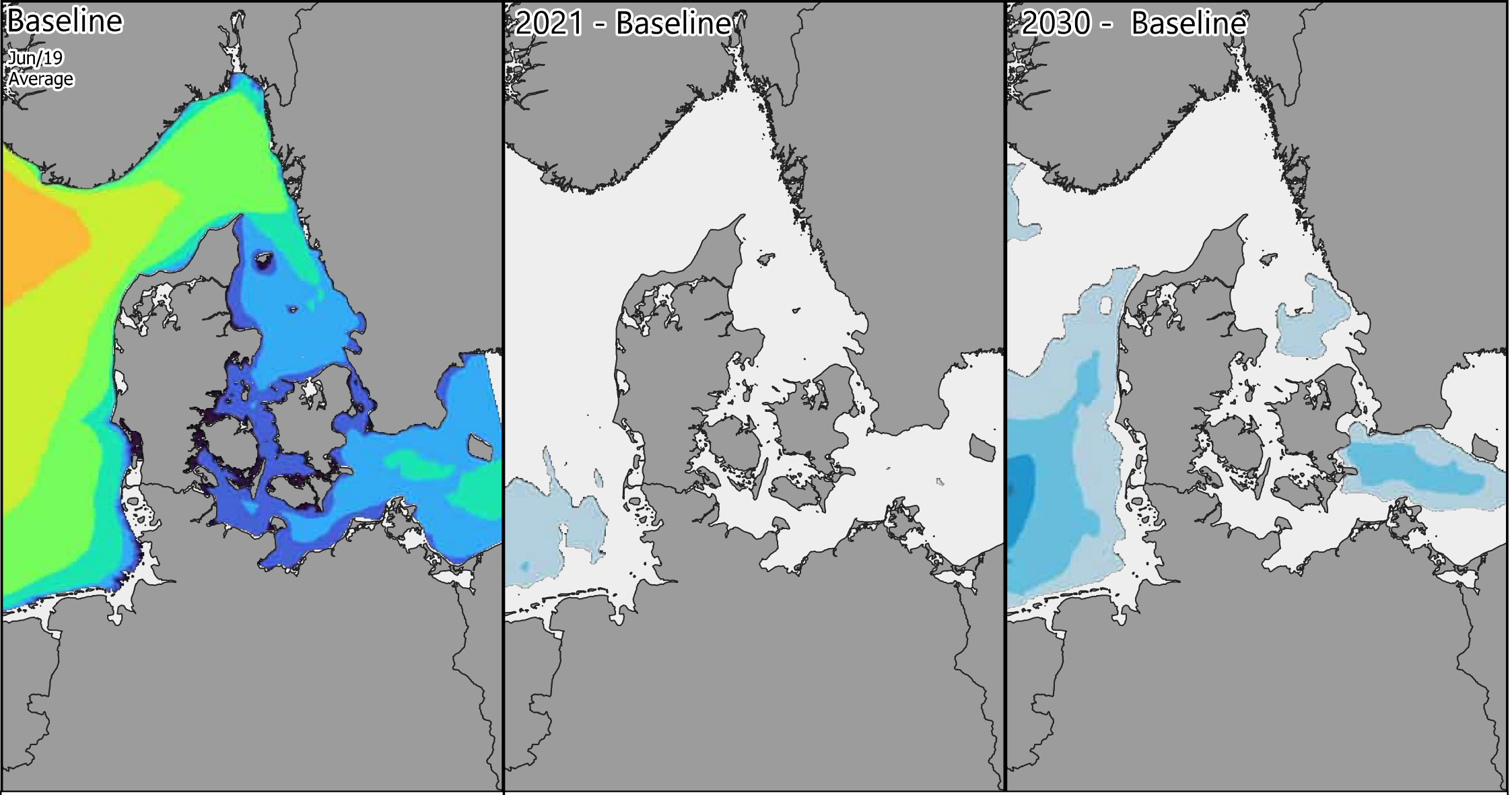
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

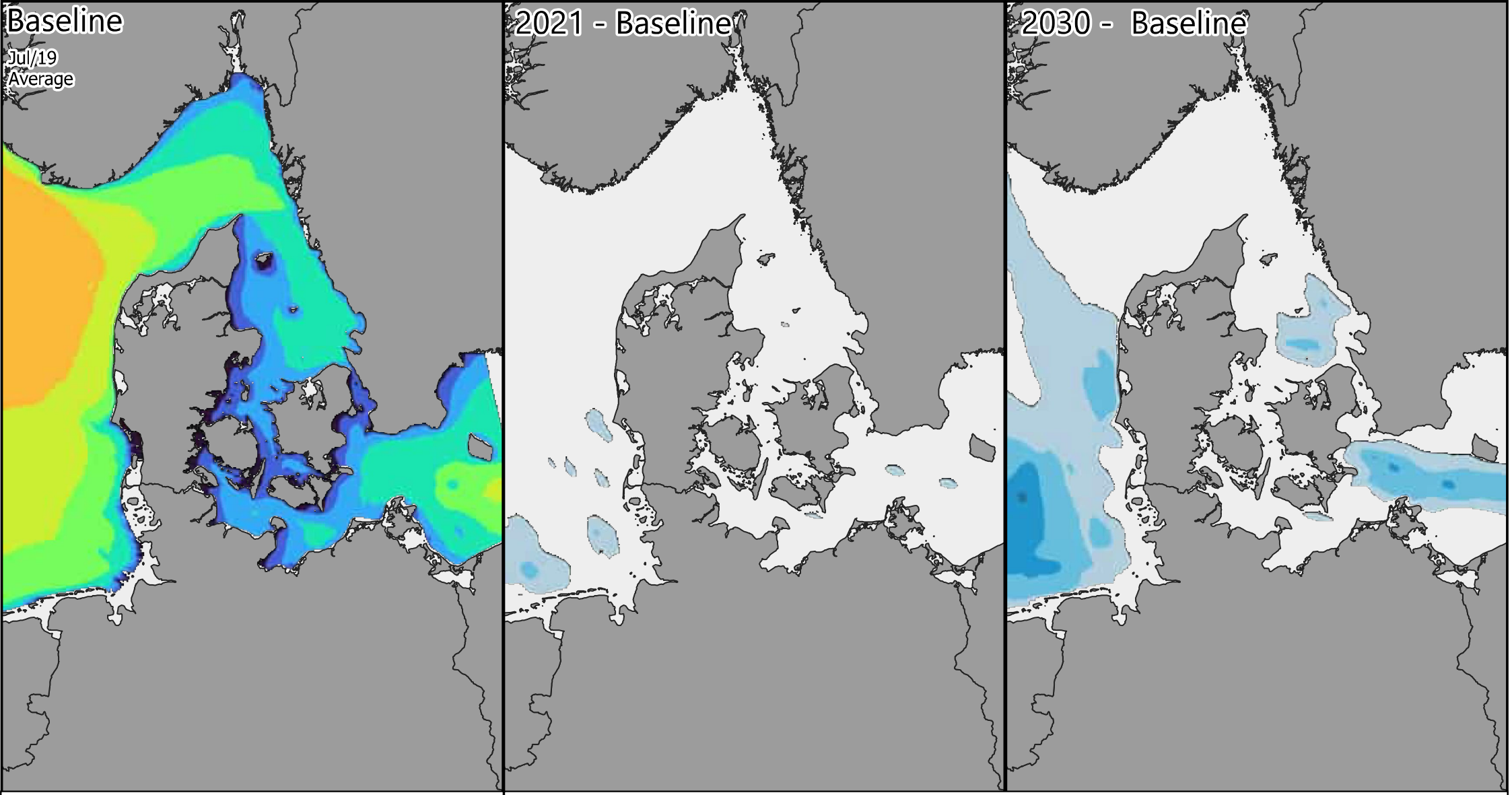
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

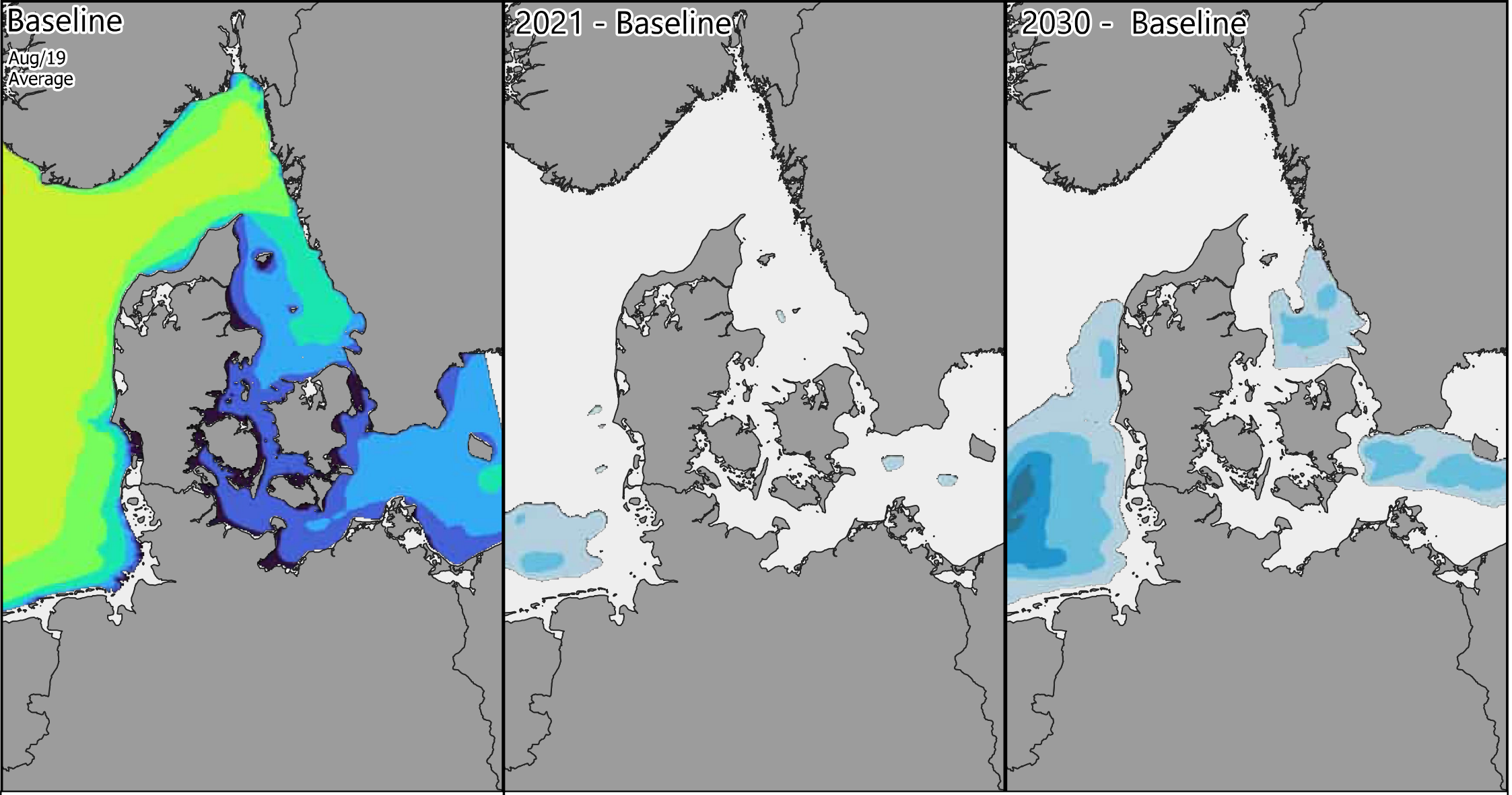
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

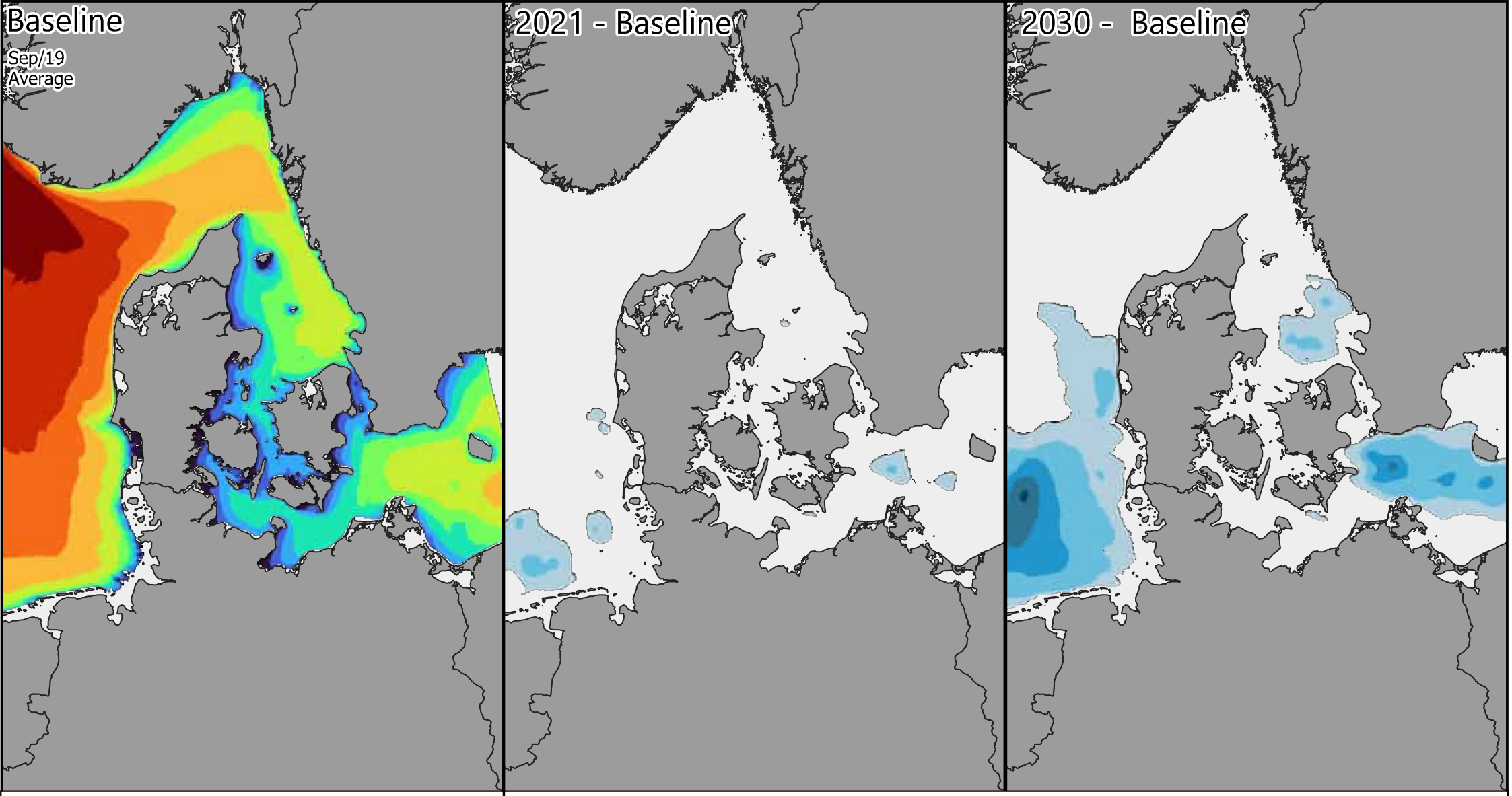
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

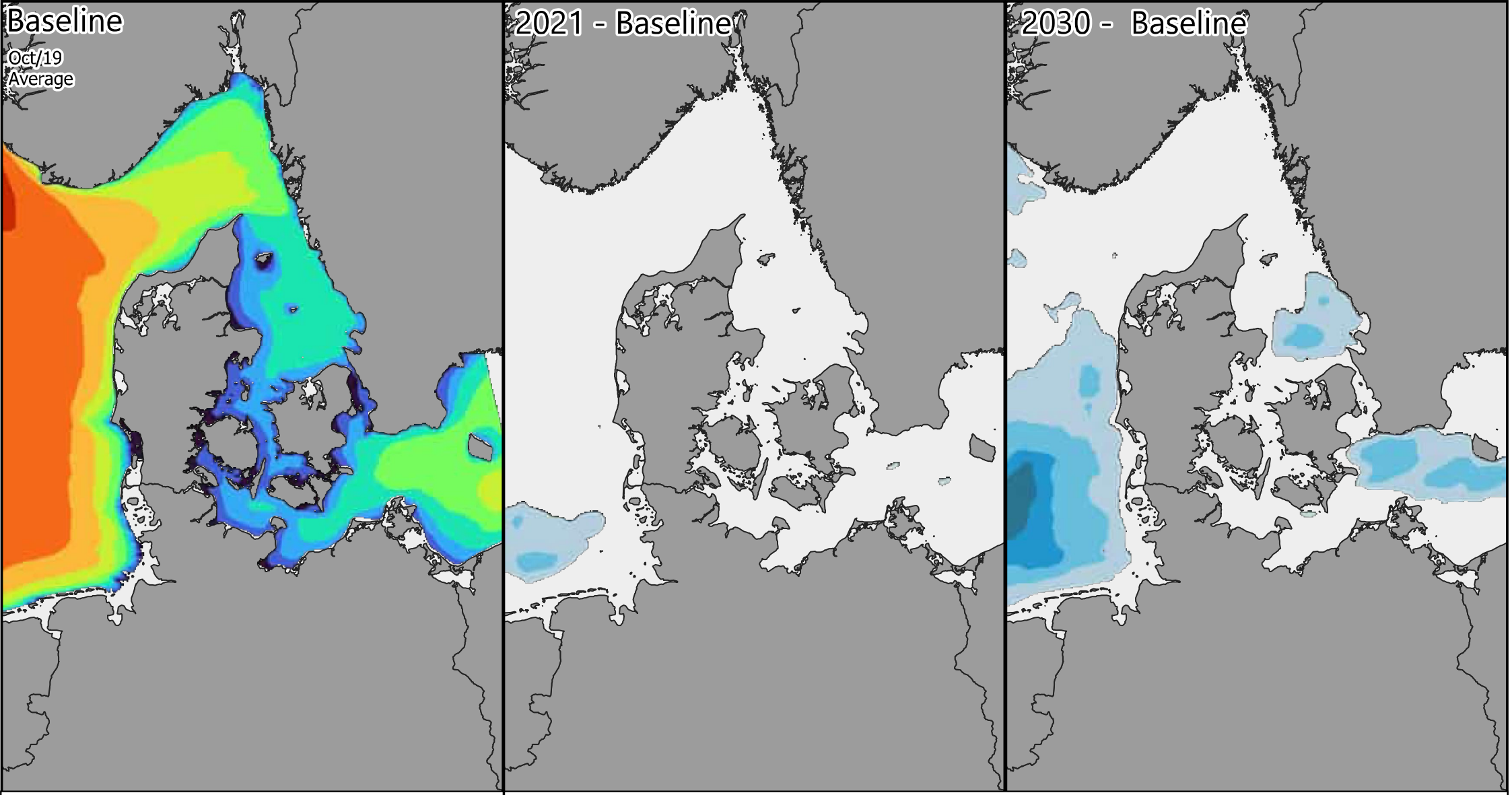
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

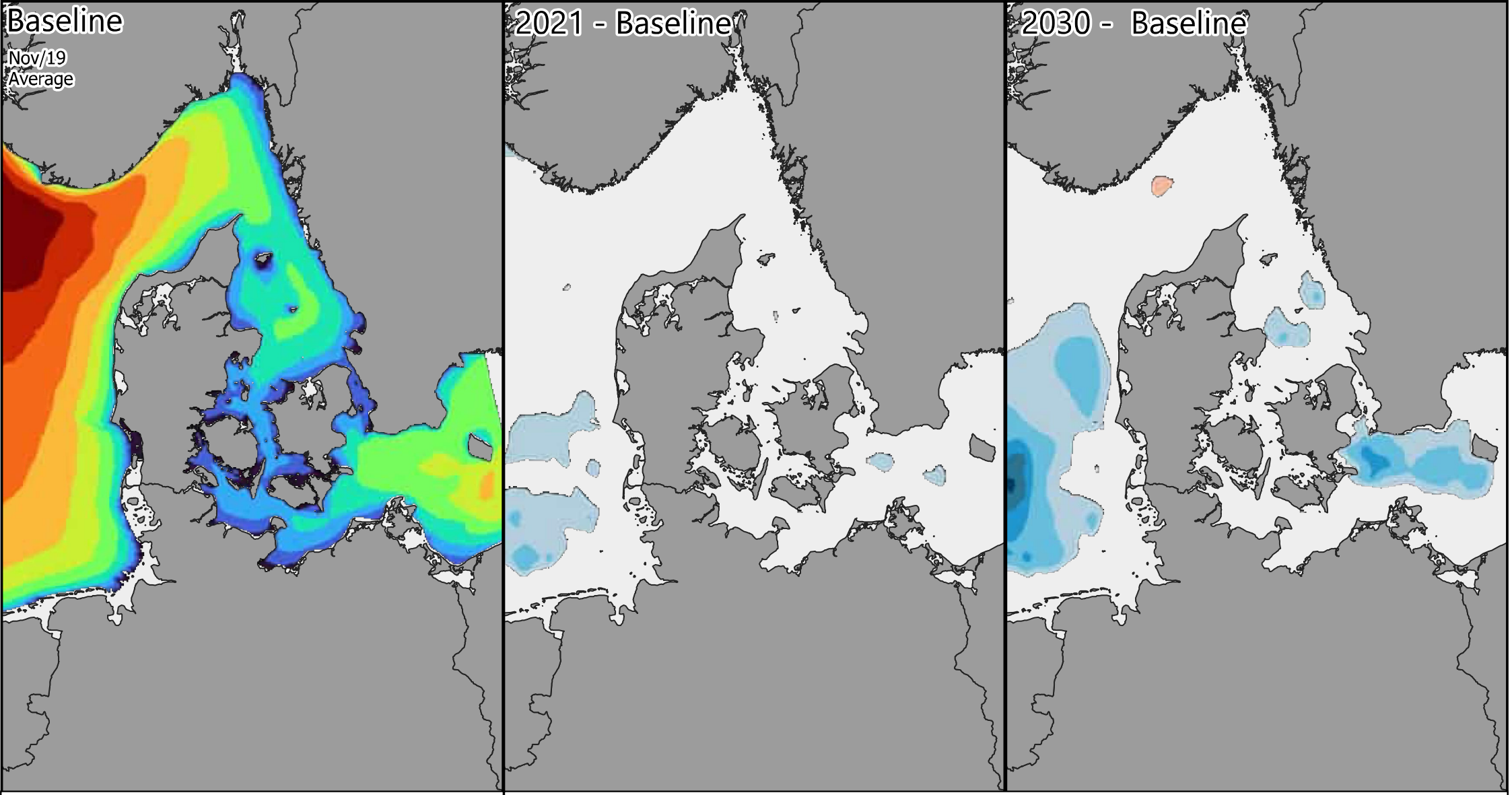
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

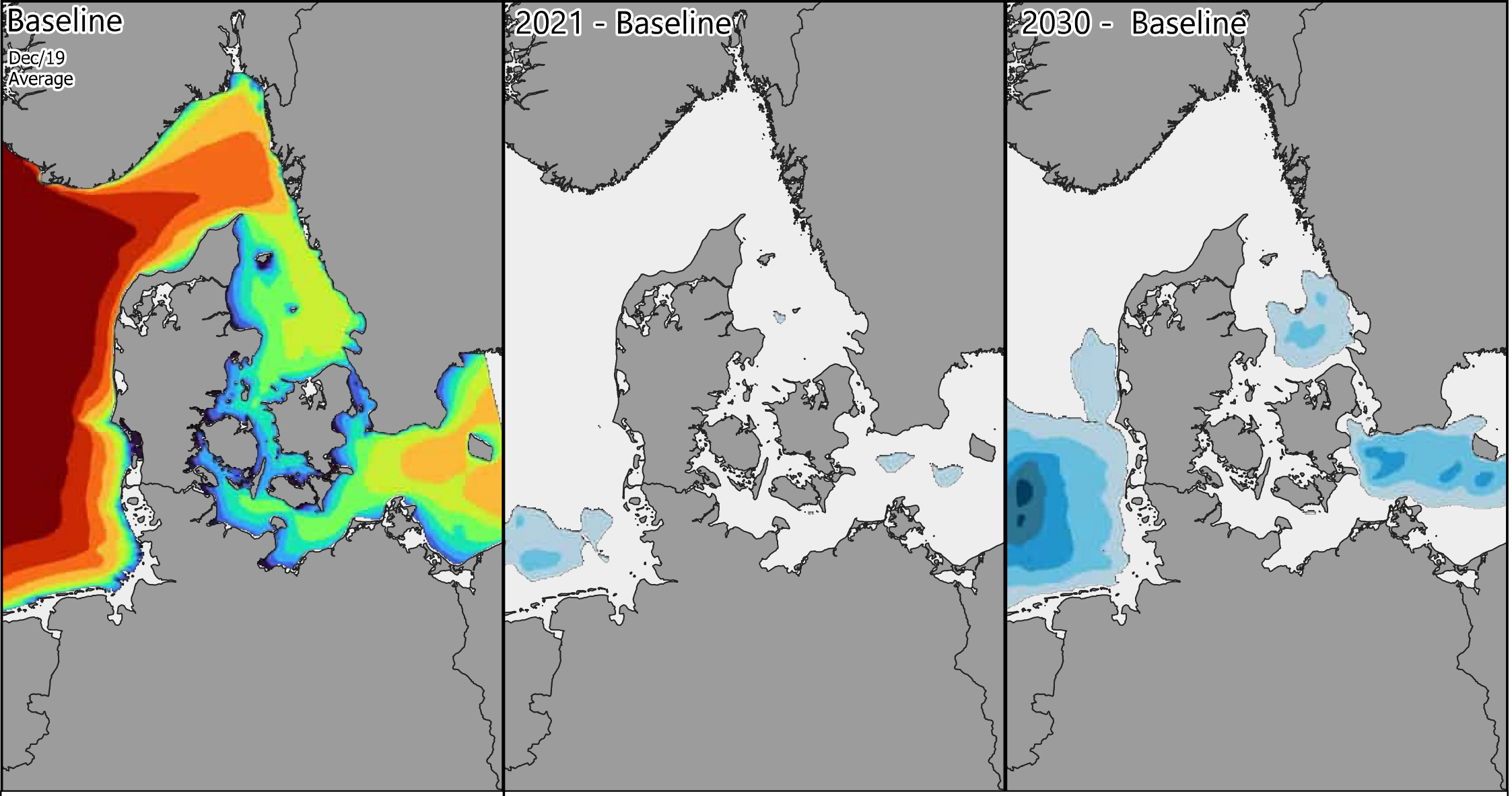
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

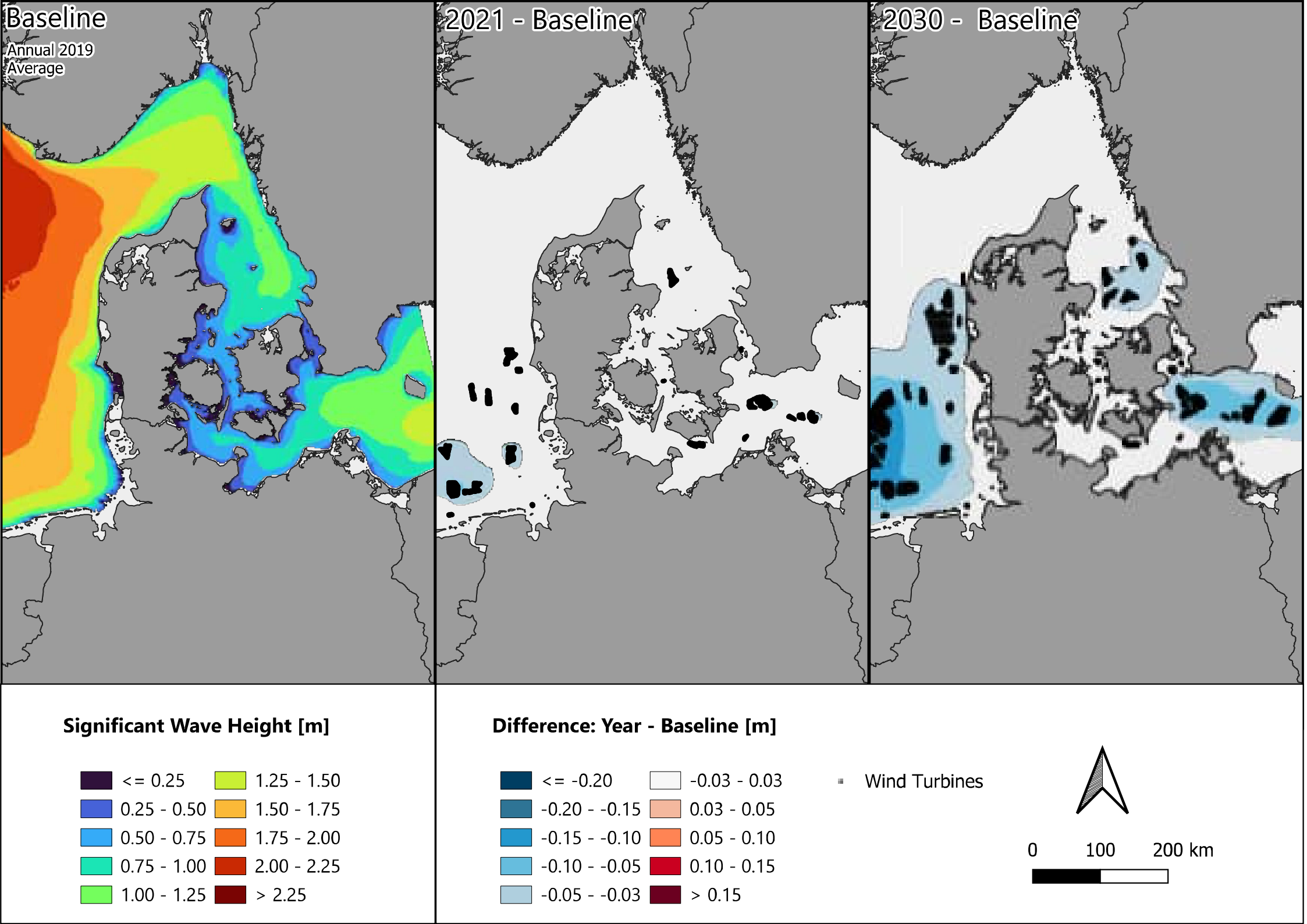
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

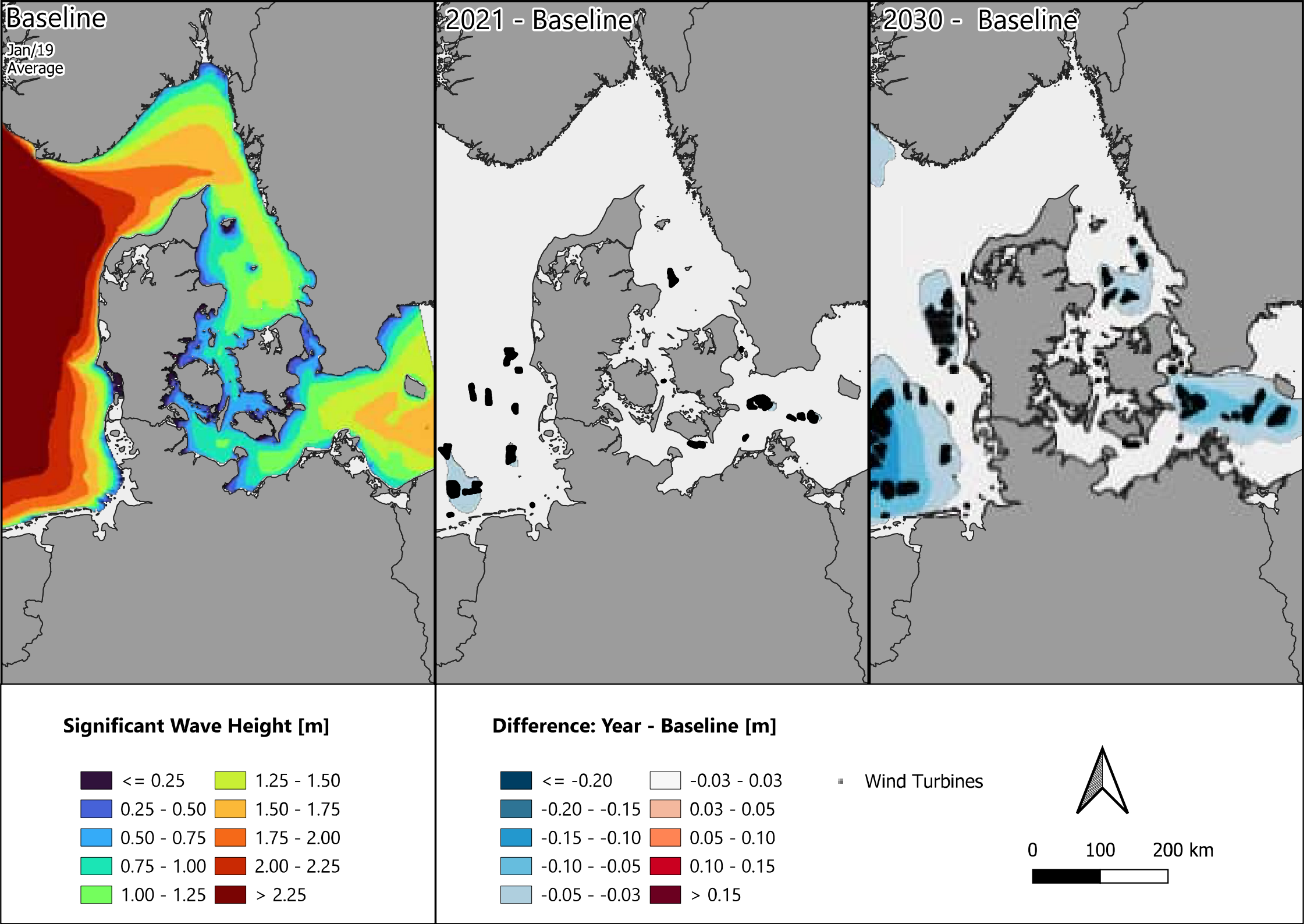
Difference: Year - Baseline [m]

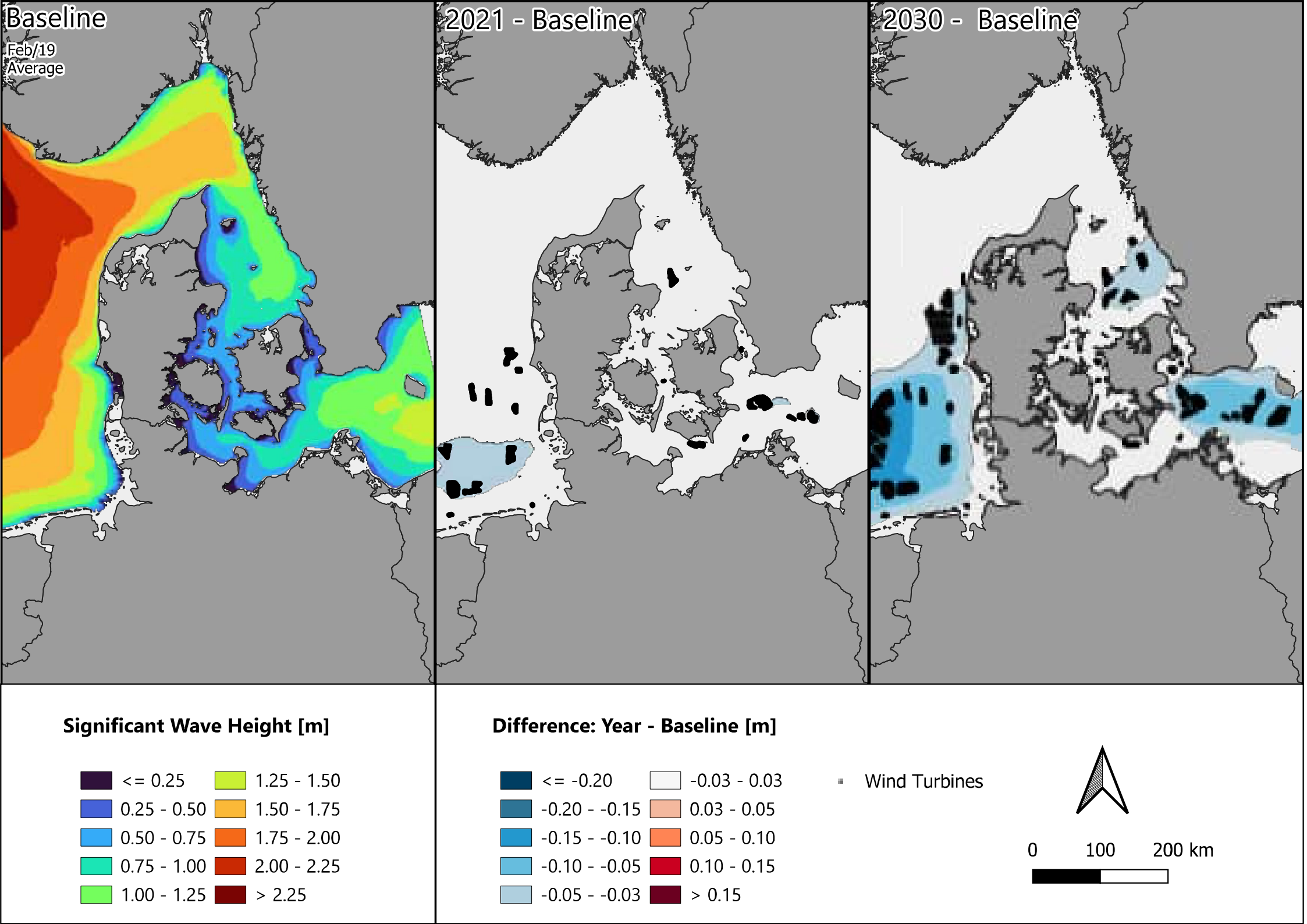
- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

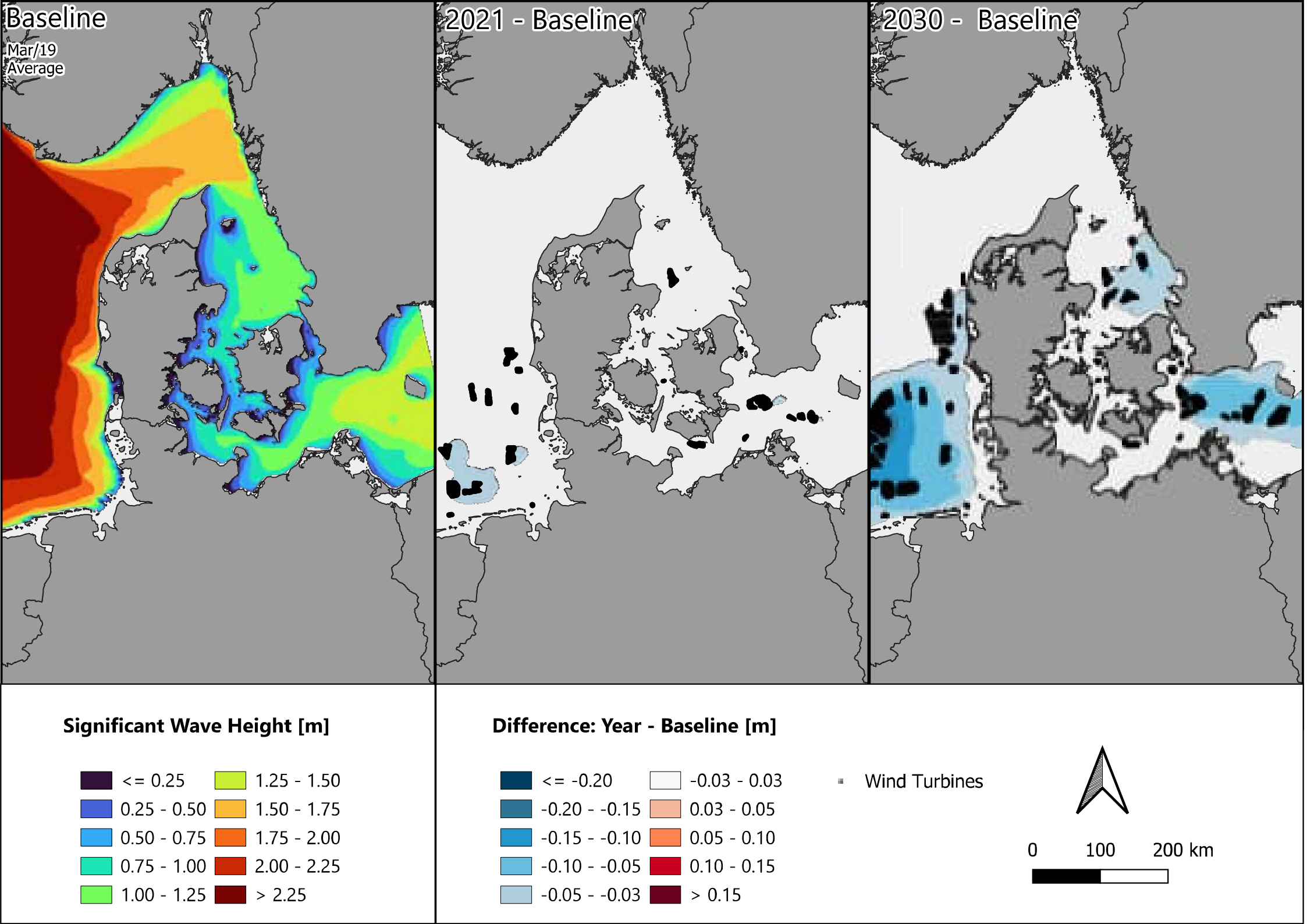
Wind Turbines

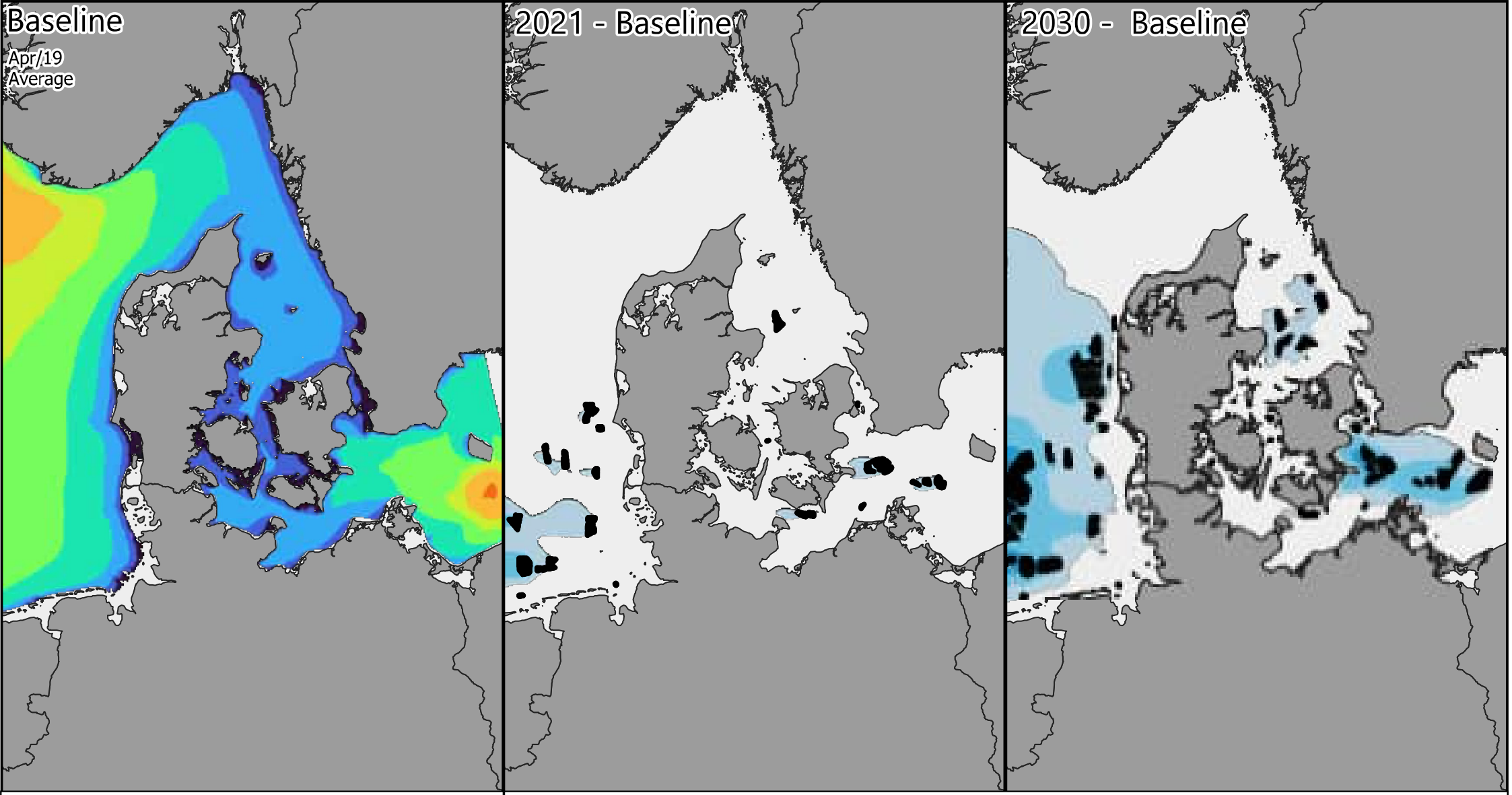
0 100 200 km


Baseline
Annual 2019
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0
100
200 km


Baseline
Jan/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0
100
200 km


Baseline
Feb/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0
100
200 km


Baseline
Mar/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0
100
200 km



Significant Wave Height [m]

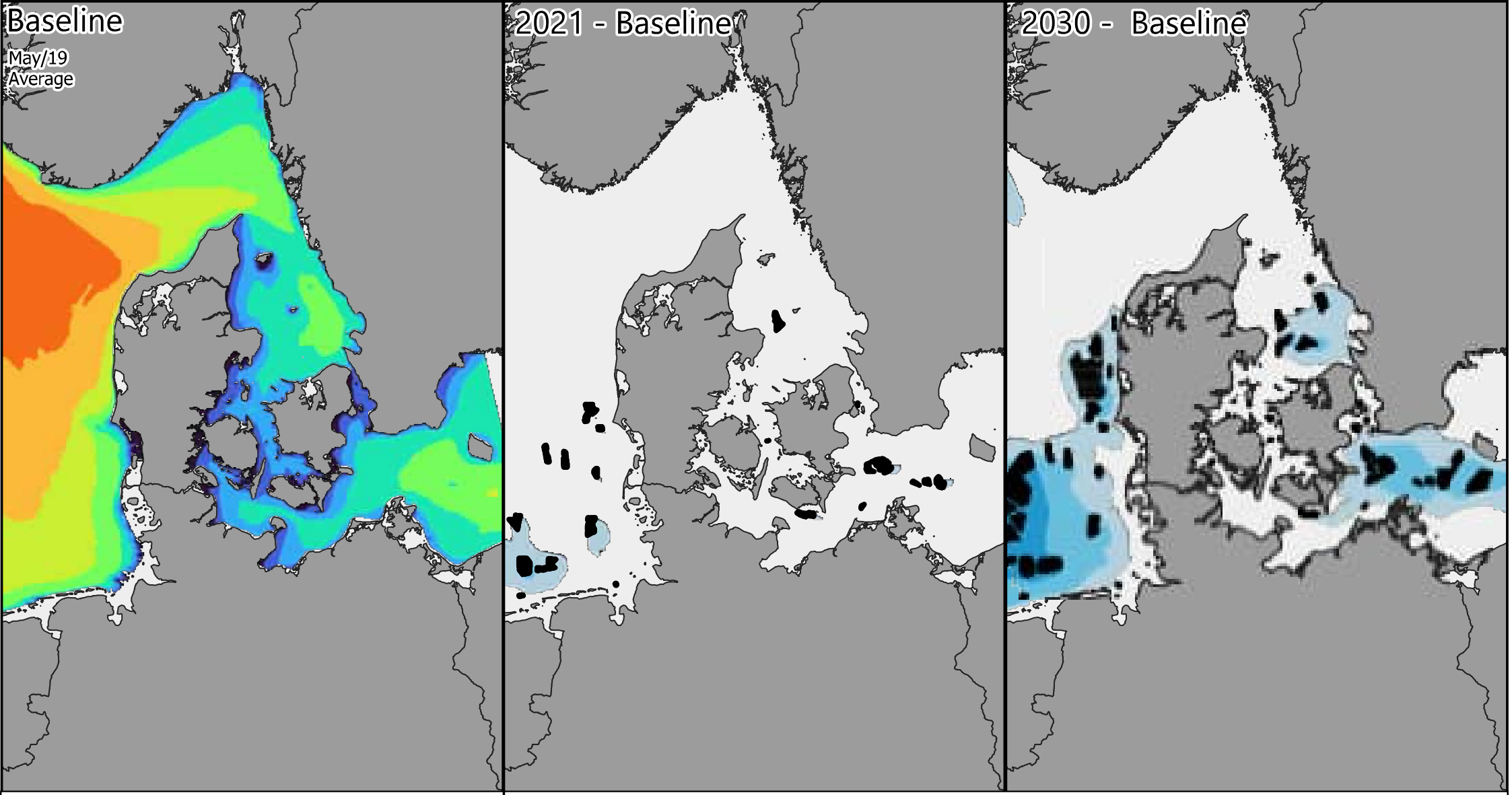
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

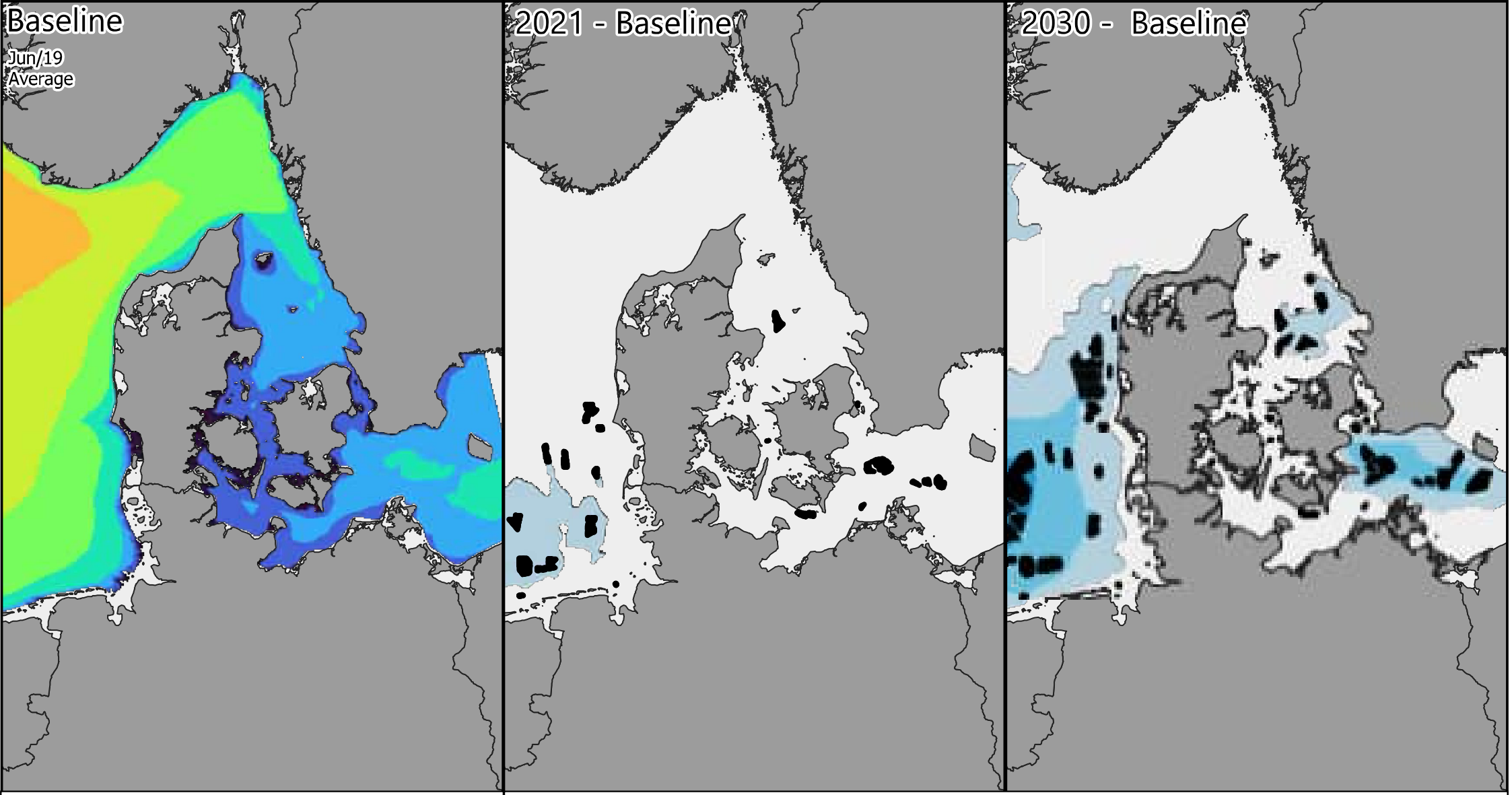
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

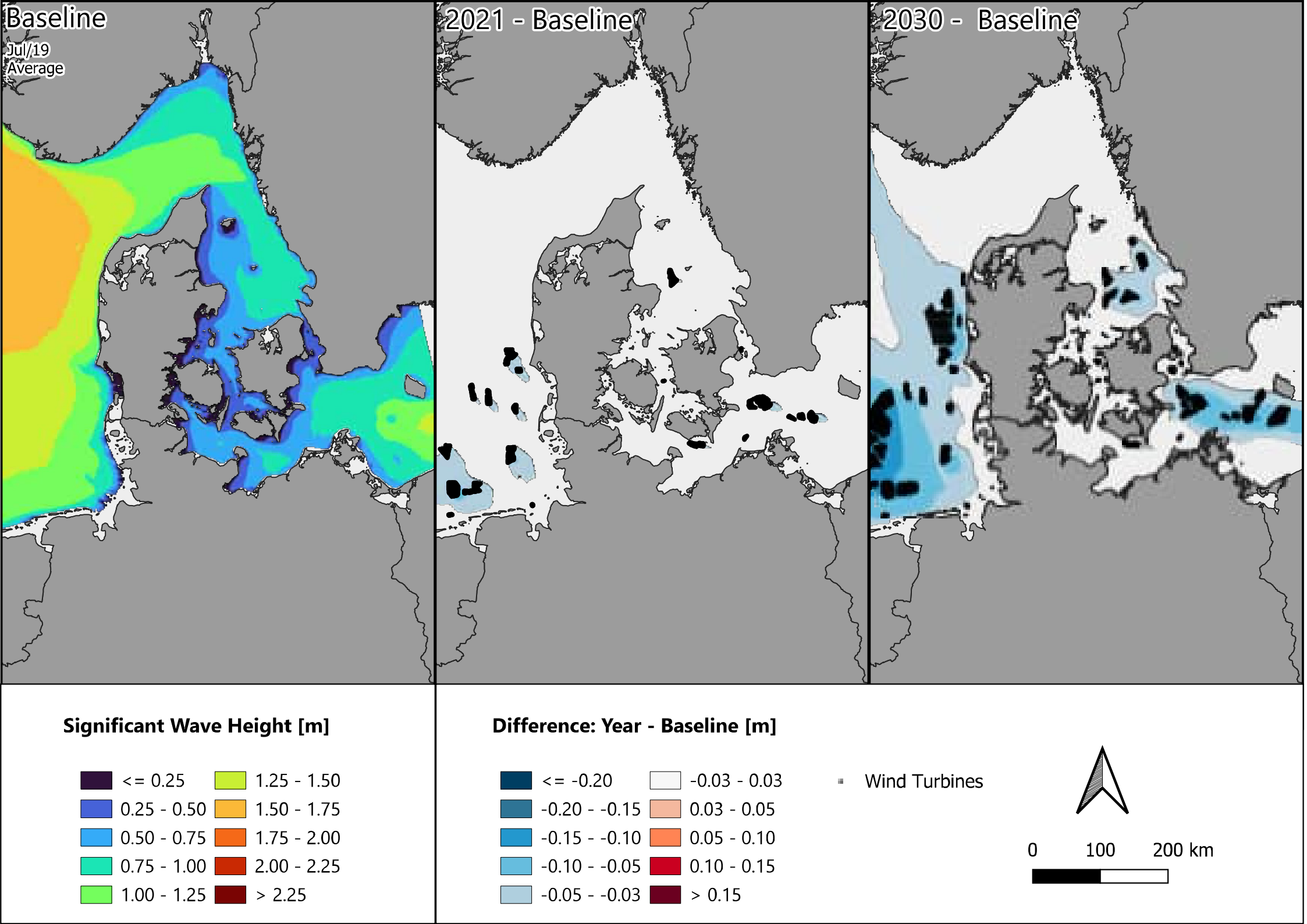
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

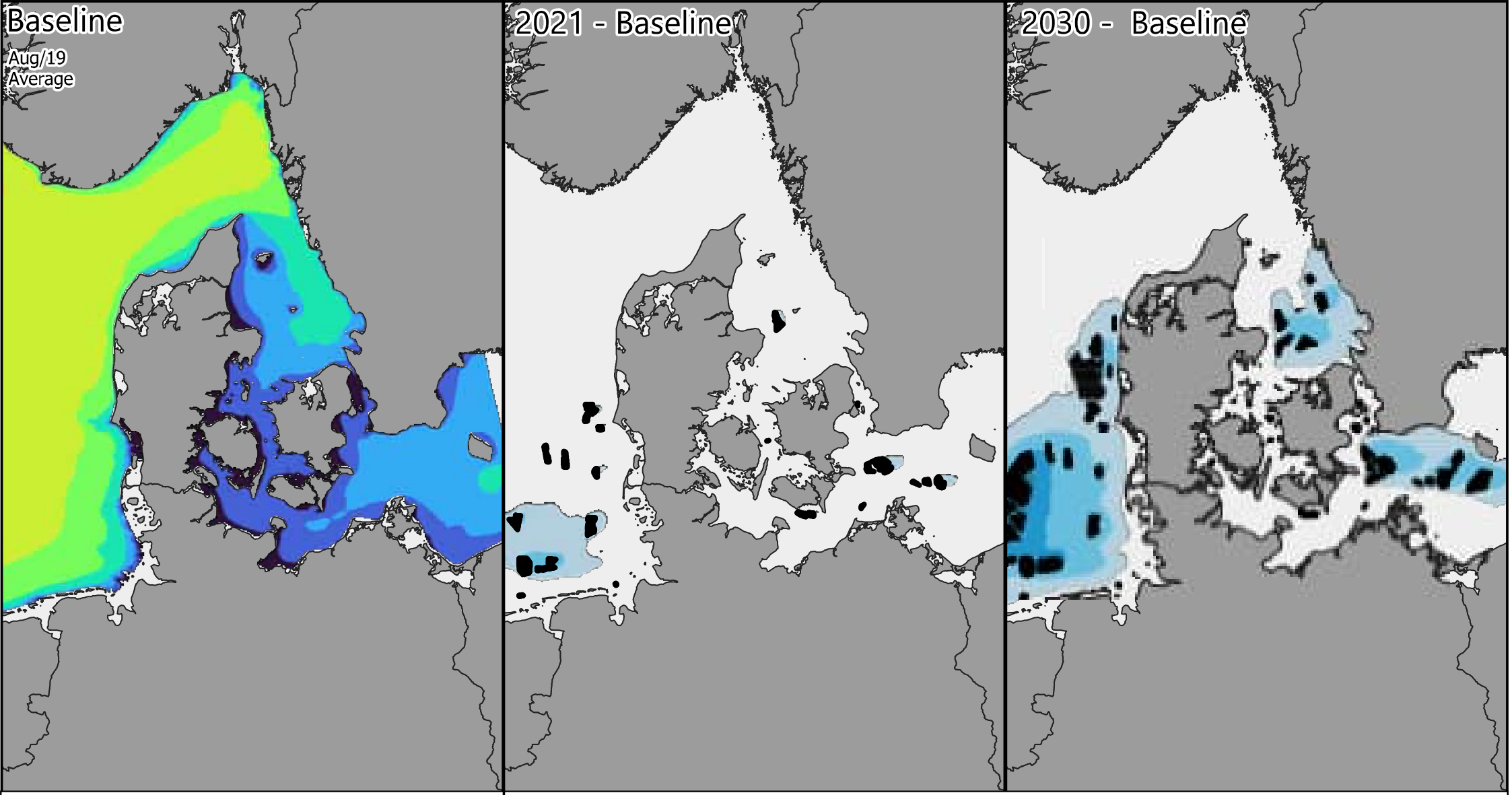
Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km


Baseline
Jul/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0
100
200 km



Significant Wave Height [m]

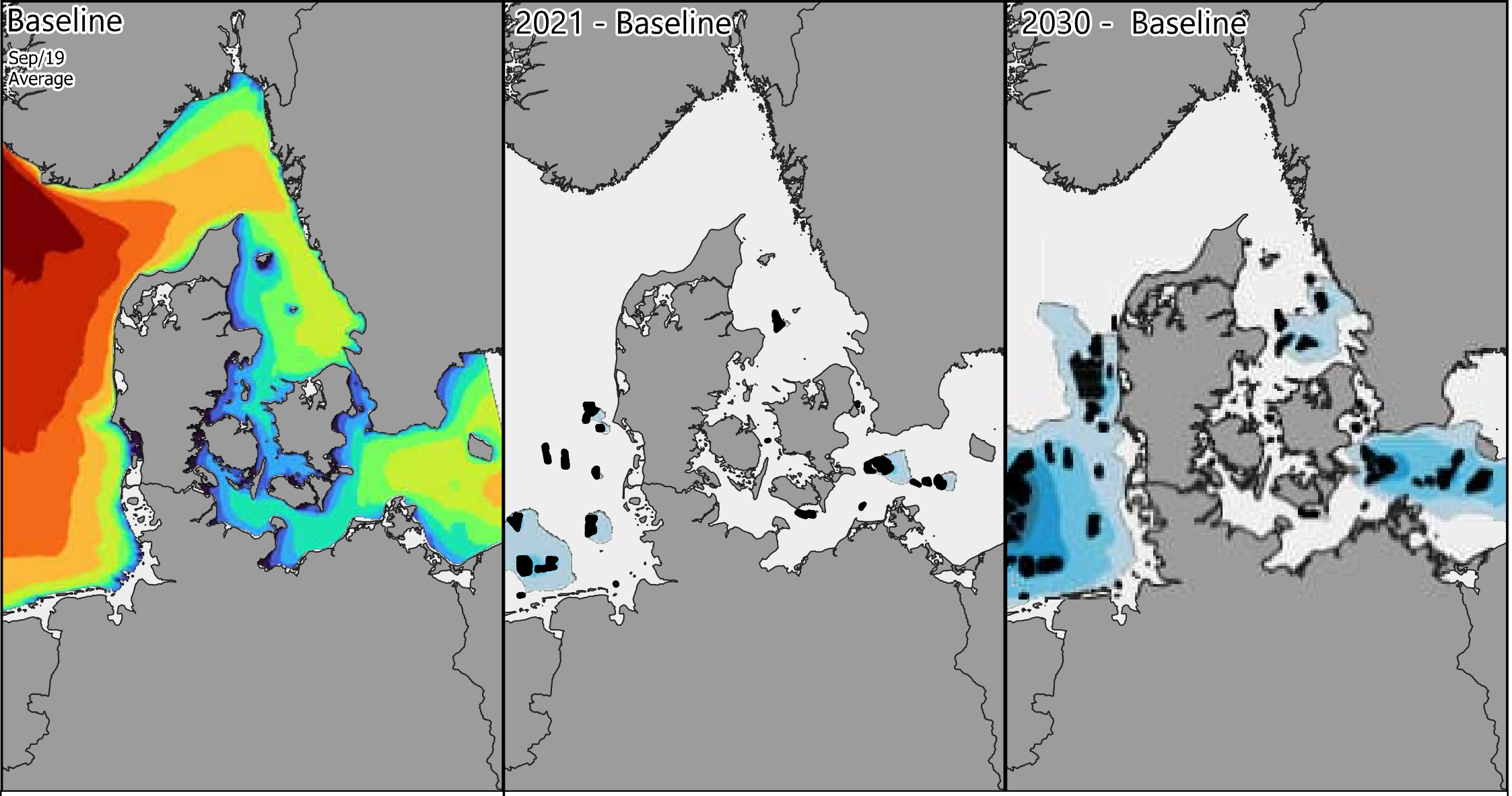
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

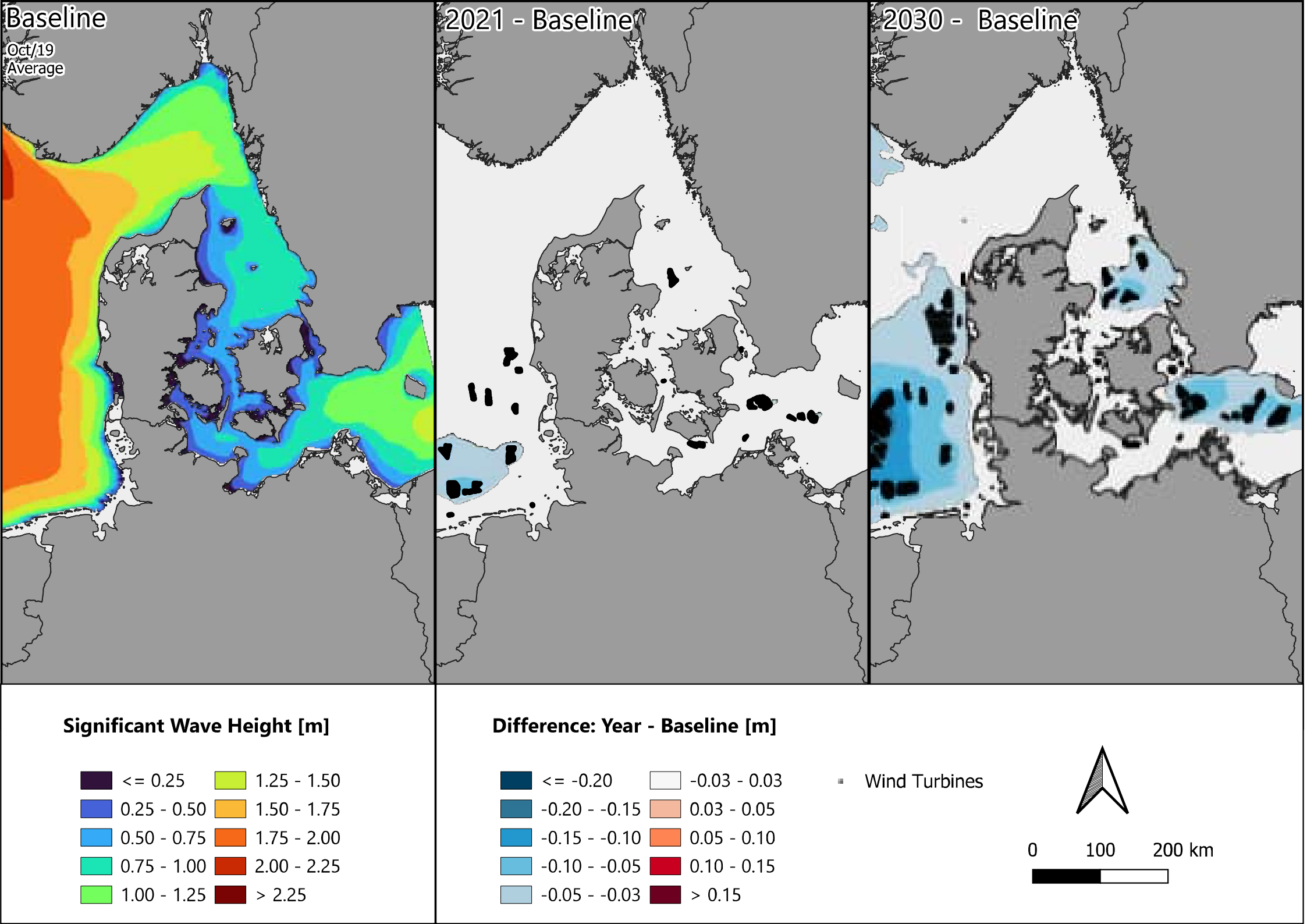
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

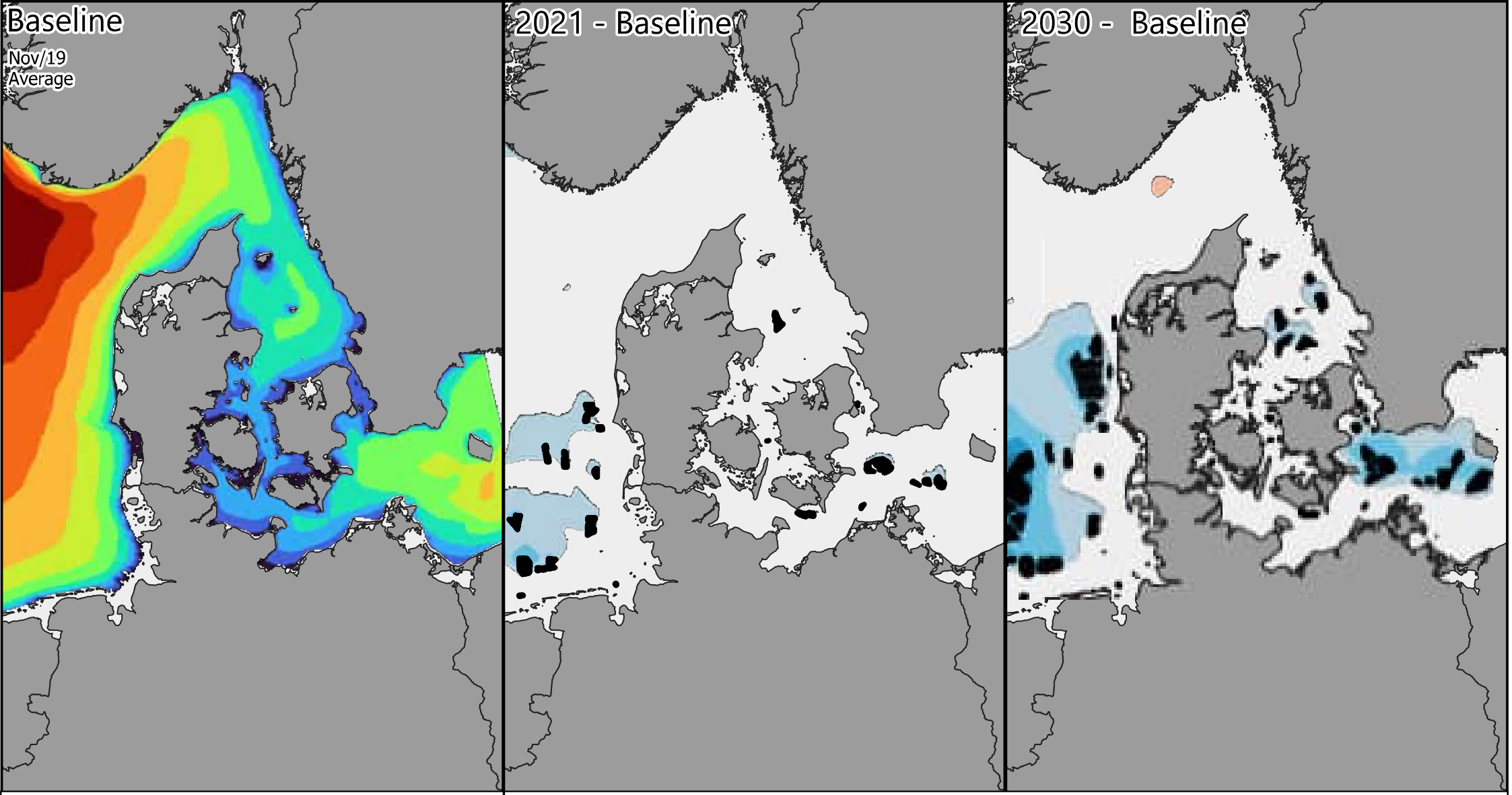
Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km


Baseline
Oct/19
Average
2021 - Baseline
2030 - Baseline
Significant Wave Height [m]
<= 0.25
0.25 - 0.50
0.50 - 0.75
0.75 - 1.00
1.00 - 1.25
1.25 - 1.50
1.50 - 1.75
1.75 - 2.00
2.00 - 2.25
> 2.25
Difference: Year - Baseline [m]
<= -0.20
-0.20 - -0.15
-0.15 - -0.10
-0.10 - -0.05
-0.05 - -0.03
-0.03 - 0.03
0.03 - 0.05
0.05 - 0.10
0.10 - 0.15
> 0.15
Wind Turbines
0
100
200 km



Significant Wave Height [m]

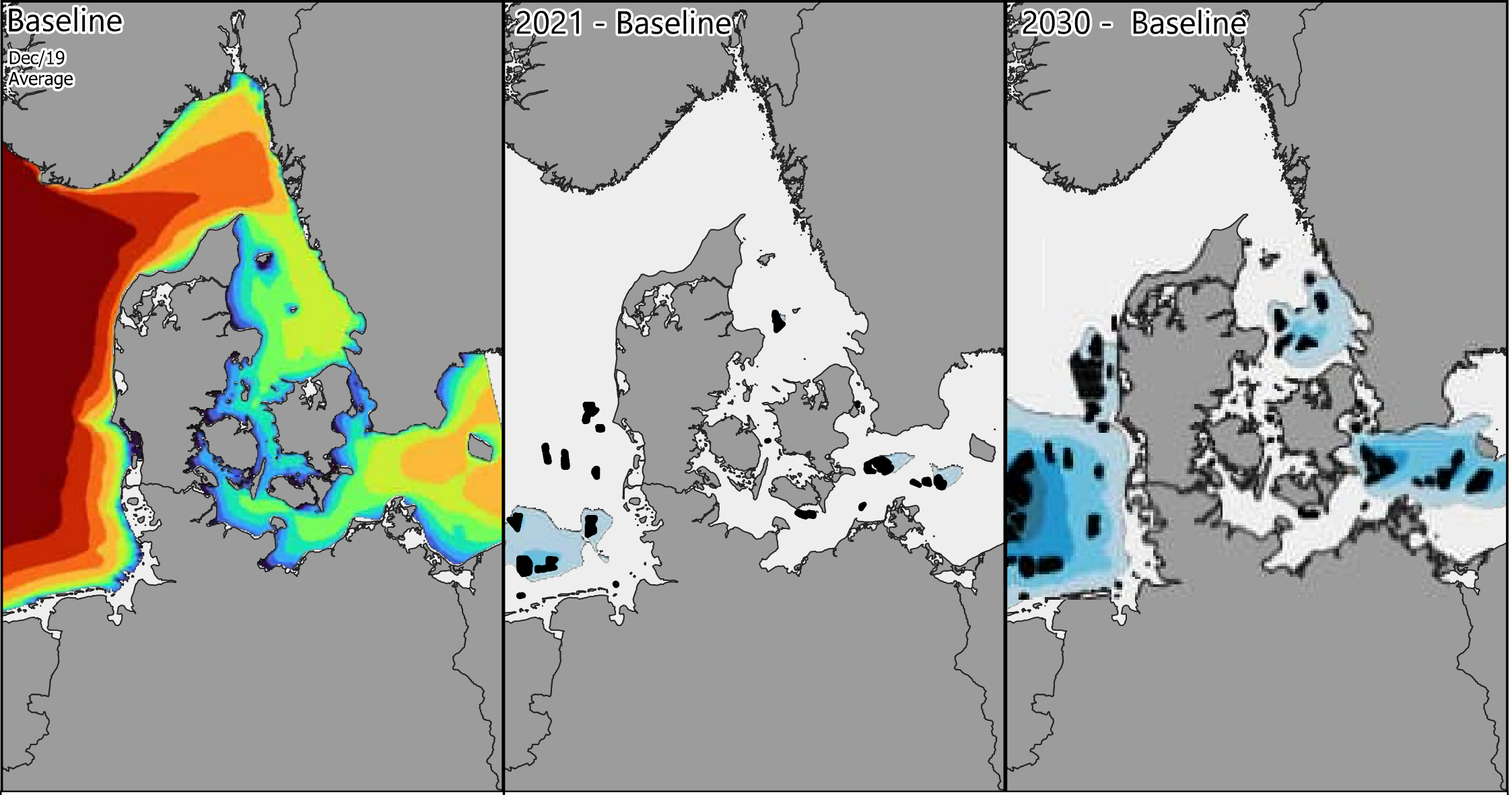
- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km



Significant Wave Height [m]

- <= 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- > 2.25

Difference: Year - Baseline [m]

- <= -0.20
- -0.20 - -0.15
- -0.15 - -0.10
- -0.10 - -0.05
- -0.05 - -0.03
- -0.03 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- > 0.15

Wind Turbines

0 100 200 km