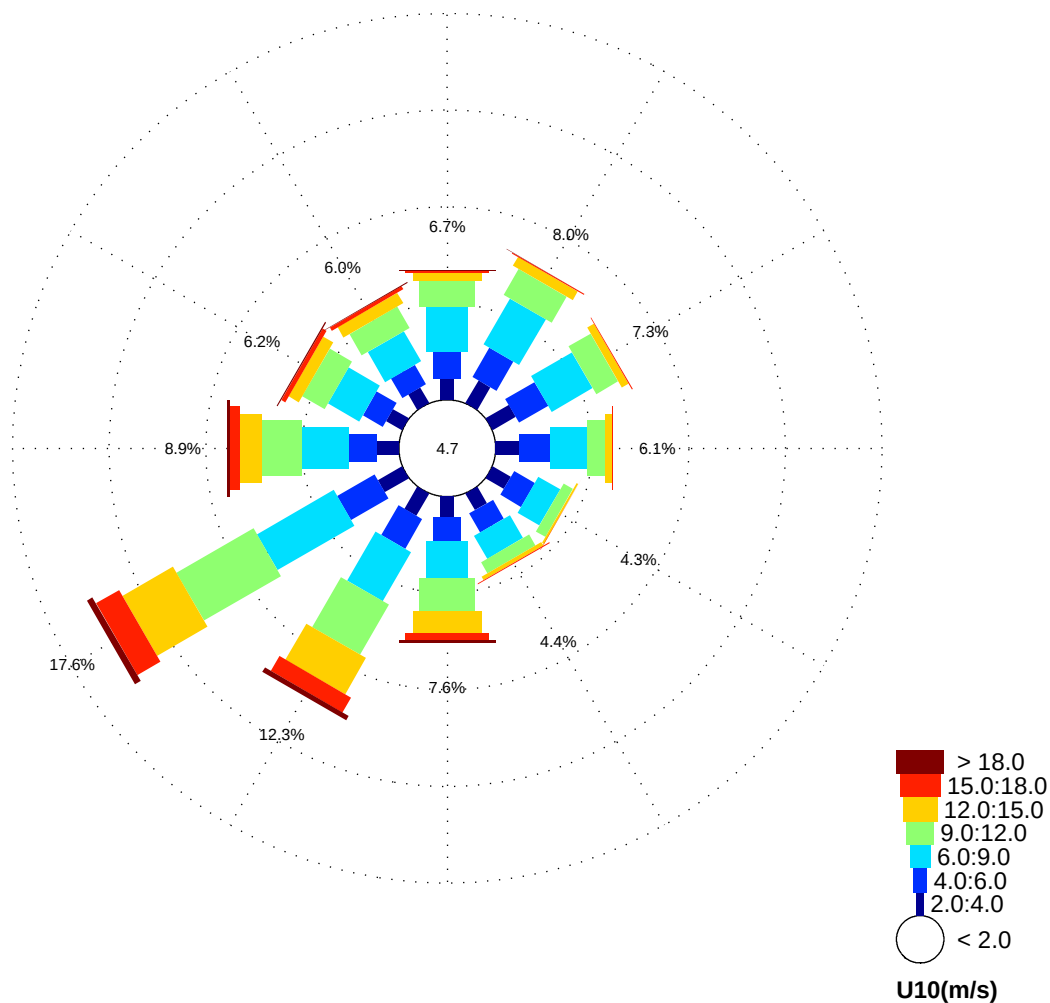


Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=7.8 m/s, max=31.7m/s)



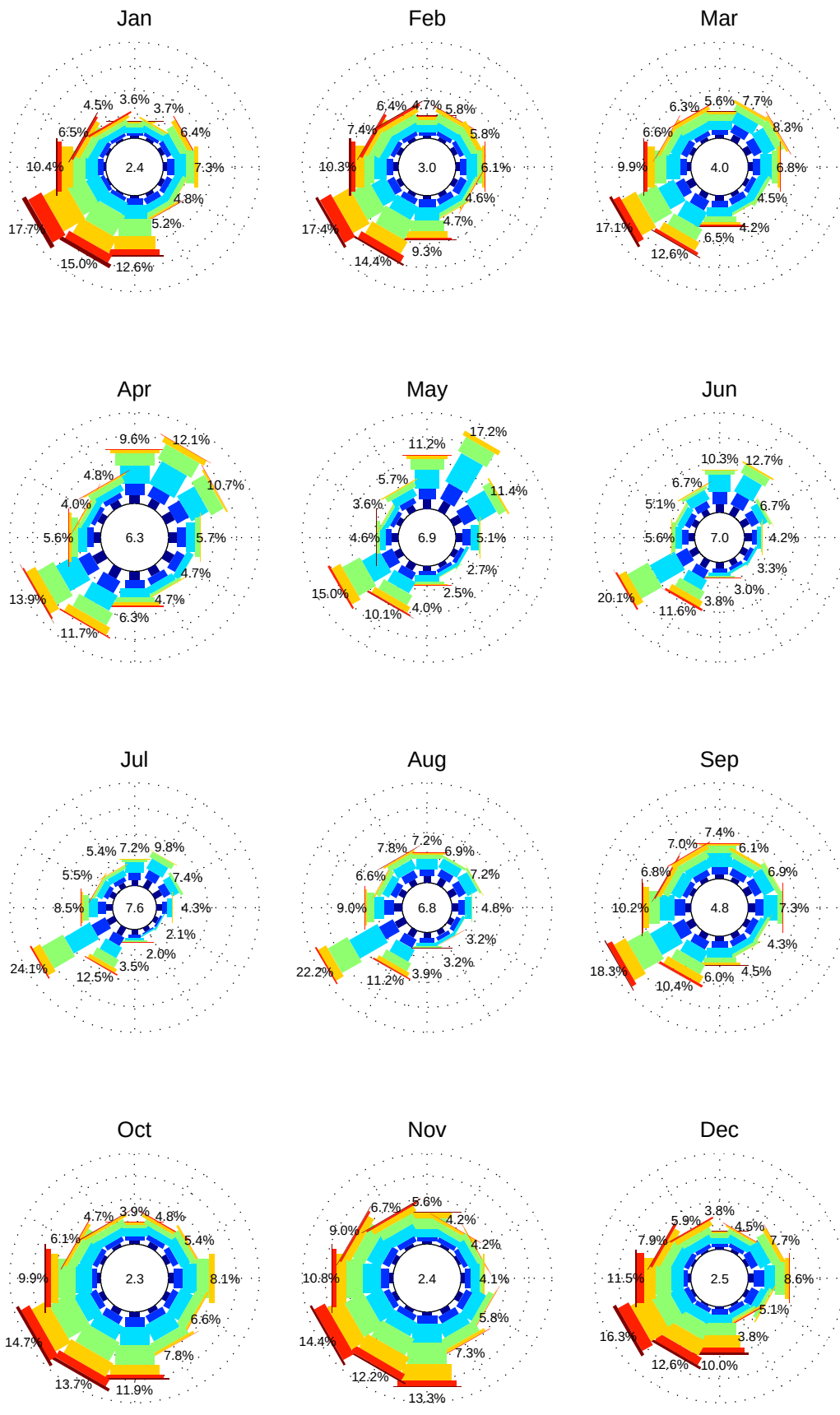
Annual wind rose at height of 10m
Nautical convention: coming from, clockwise from North

Height: 10m

All Year

Deltares

App. A.1.001



Monthly wind roses at height of 10m
Nautical convention: coming from, clockwise from North

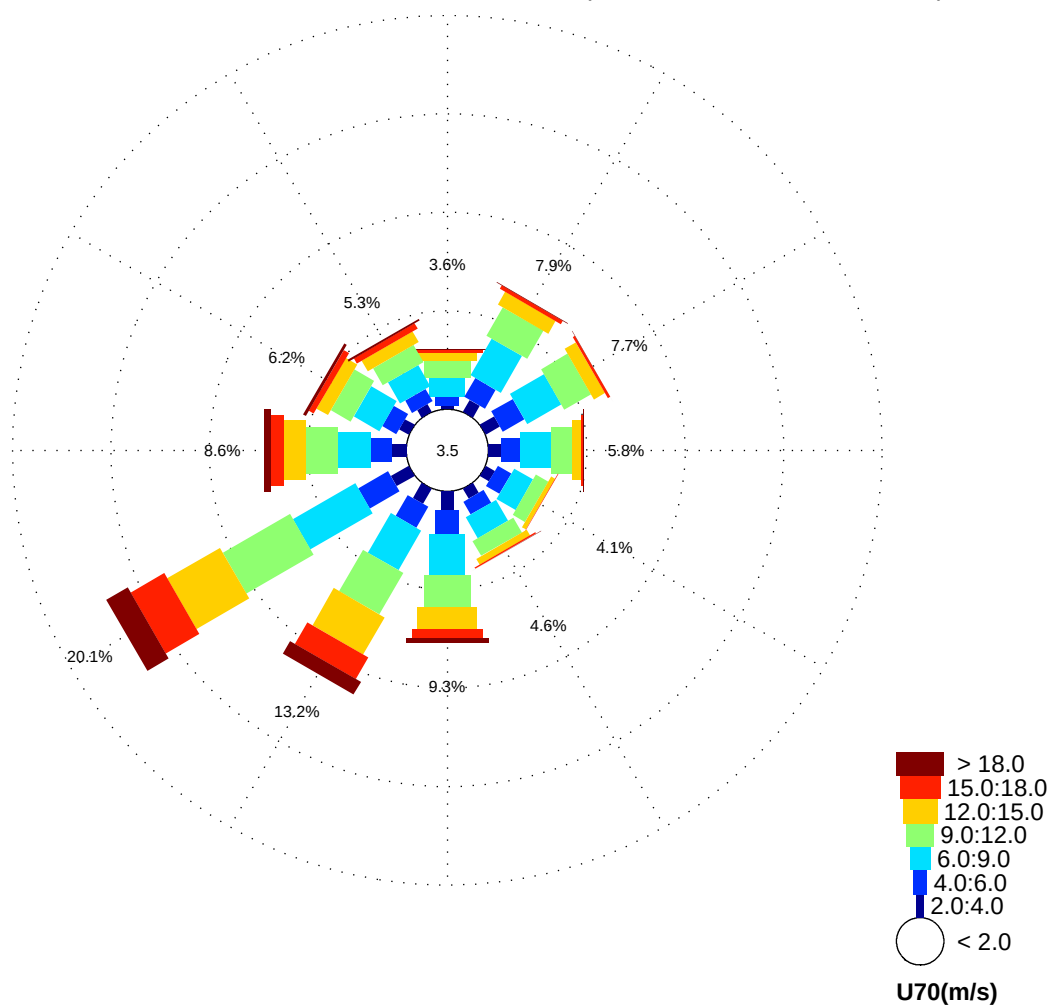
Height: 10m

Monthly

Deltares

App. A.1.002

Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=9.0 m/s, max=37.0m/s)



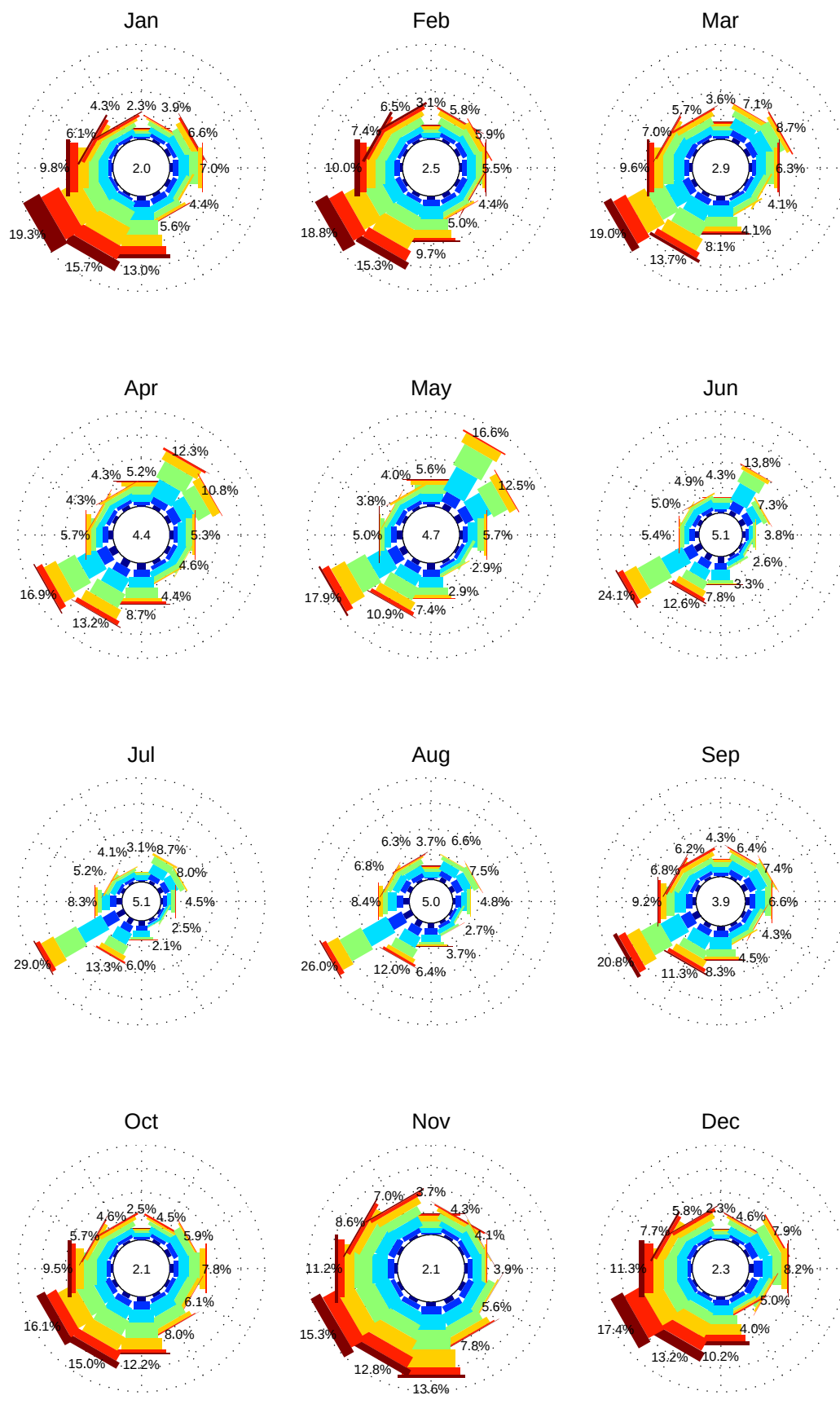
Annual wind rose at height of 70m
Nautical convention: coming from, clockwise from North

Height: 70m

All Year

Deltares

App. A.1.003



Monthly wind roses at height of 70m
Nautical convention: coming from, clockwise from North

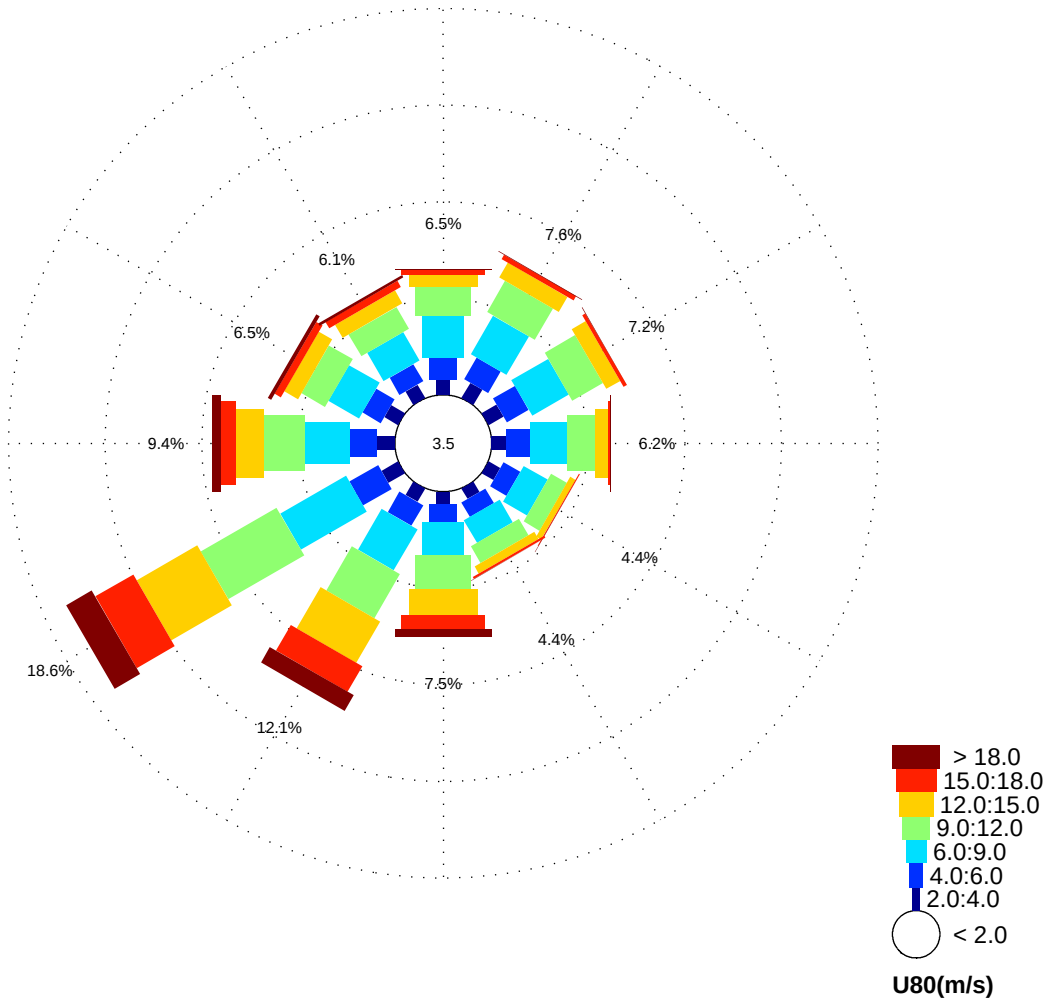
Height: 70m

Monthly

Deltares

App. A.1.004

Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=9.1 m/s, max=37.4m/s)



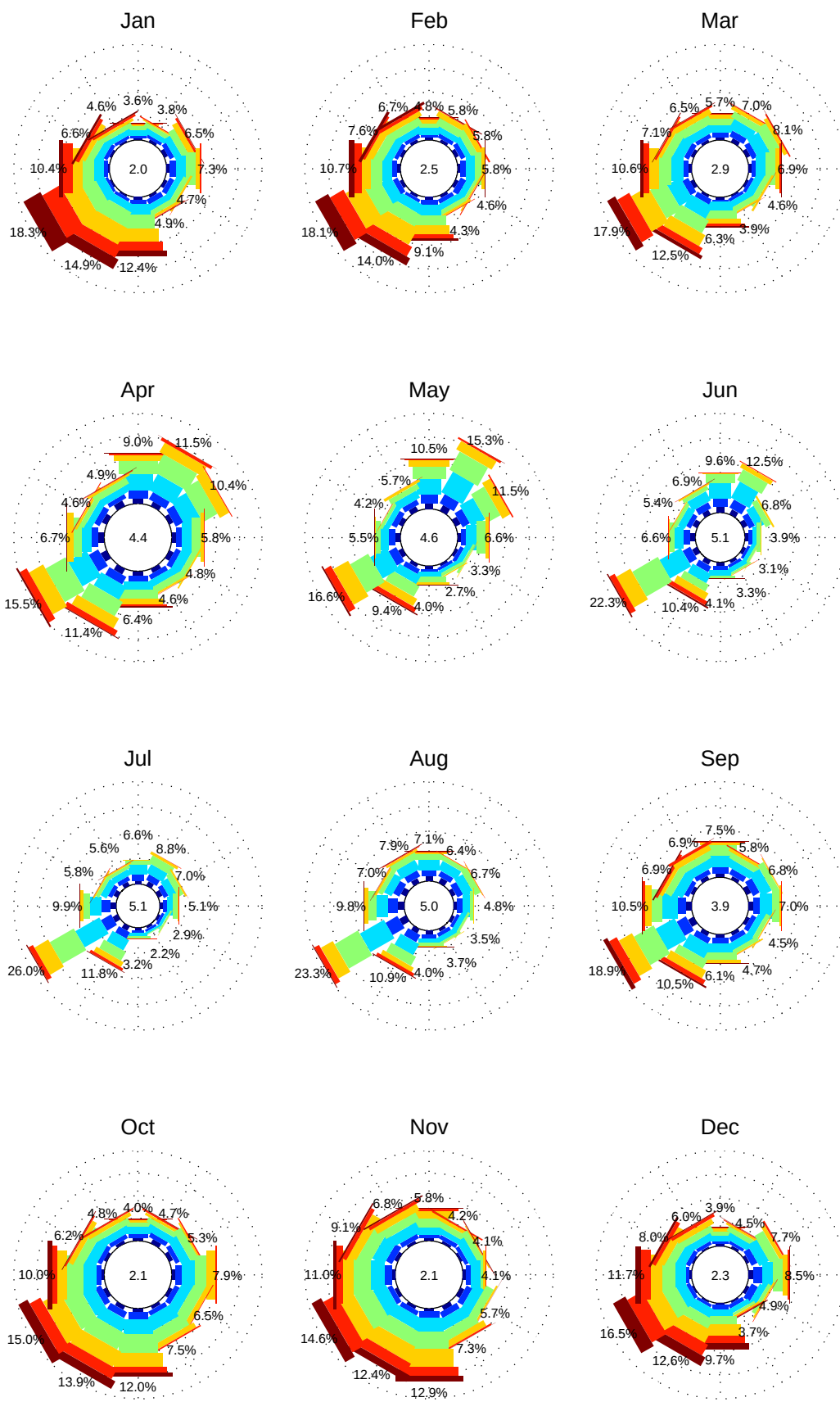
Annual wind rose at height of 80m
Nautical convention: coming from, clockwise from North

Height: 80m

All Year

Deltares

App. A.1.005



Monthly wind roses at height of 80m
Nautical convention: coming from, clockwise from North

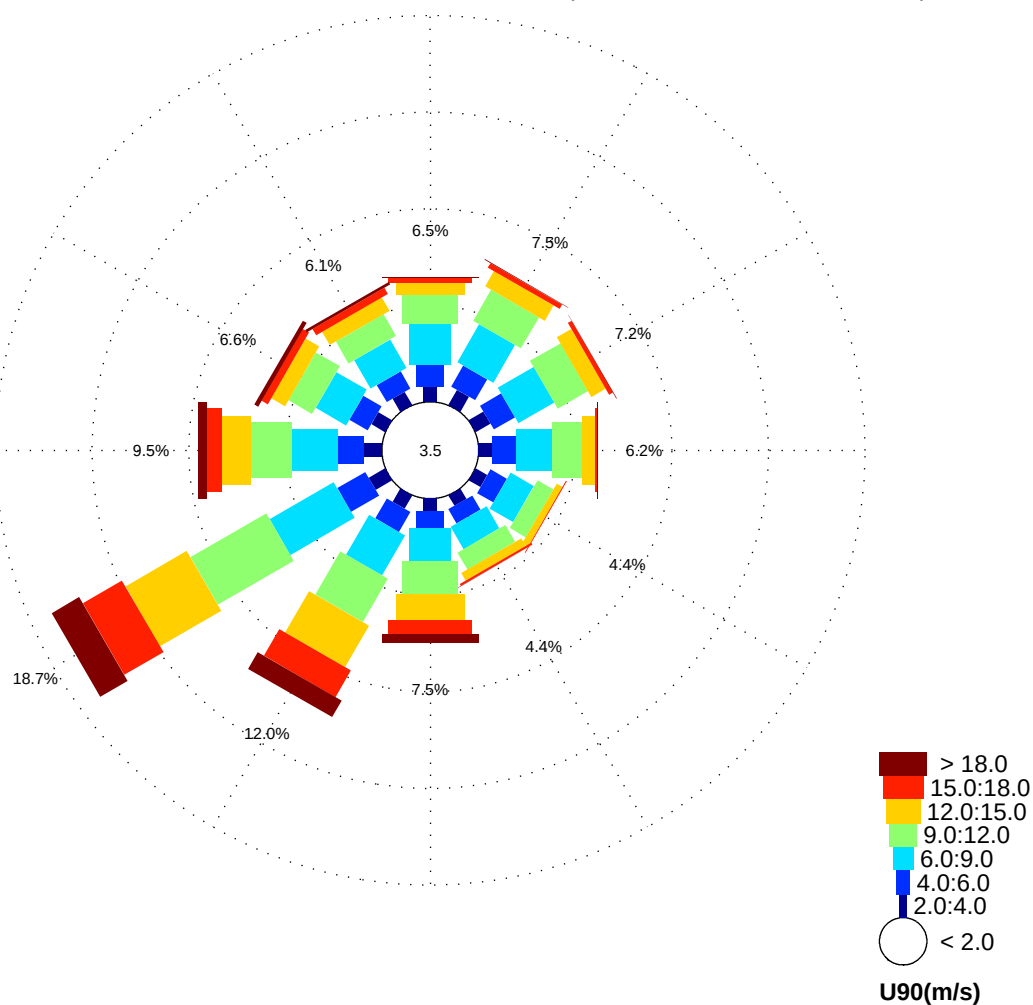
Height: 80m

Monthly

Deltares

App. A.1.006

Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=9.2 m/s, max=37.8m/s)



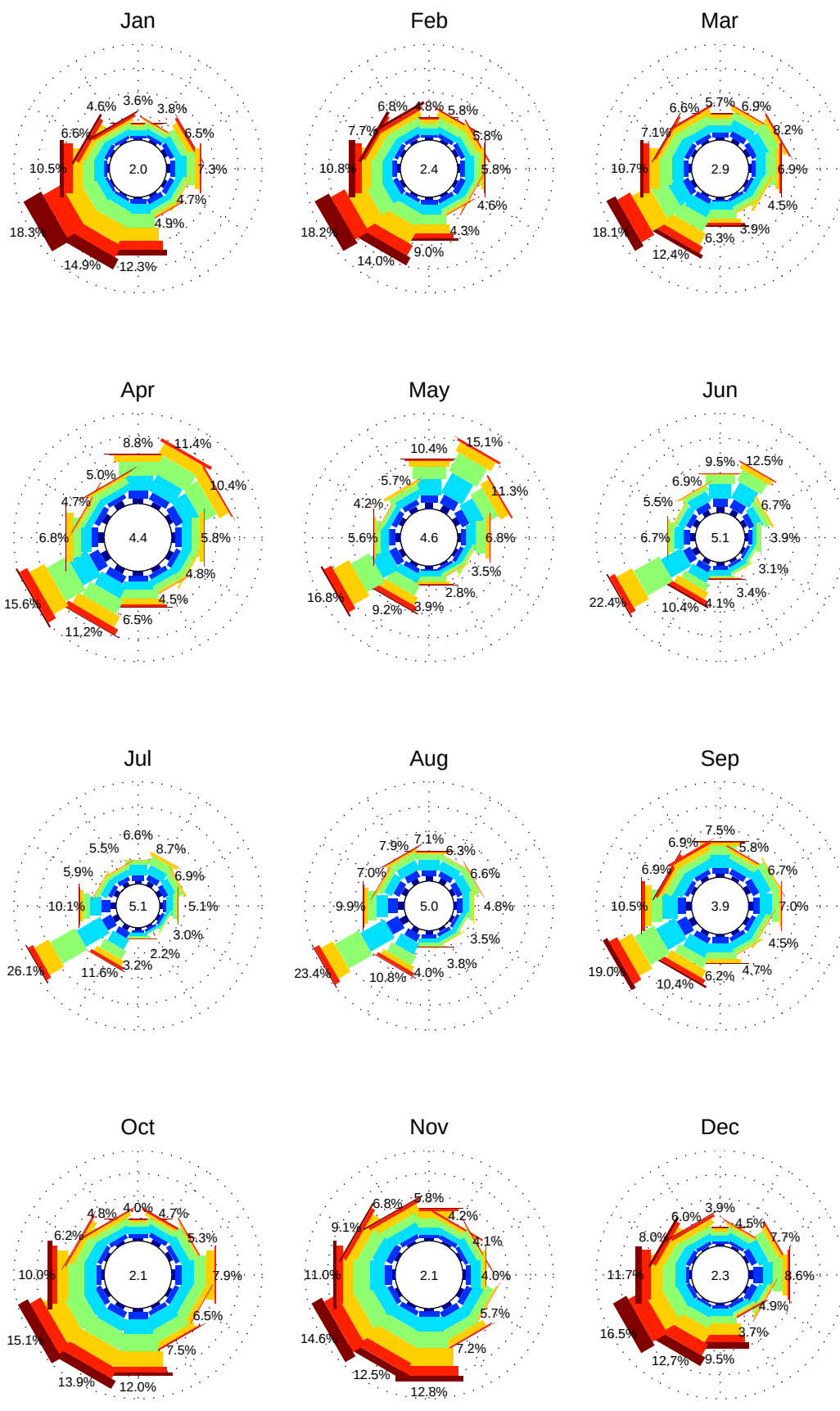
Annual wind rose at height of 90m
Nautical convention: coming from, clockwise from North

Height: 90m

All Year

Deltares

App. A.1.007



Monthly wind roses at height of 90m
Nautical convention: coming from, clockwise from North

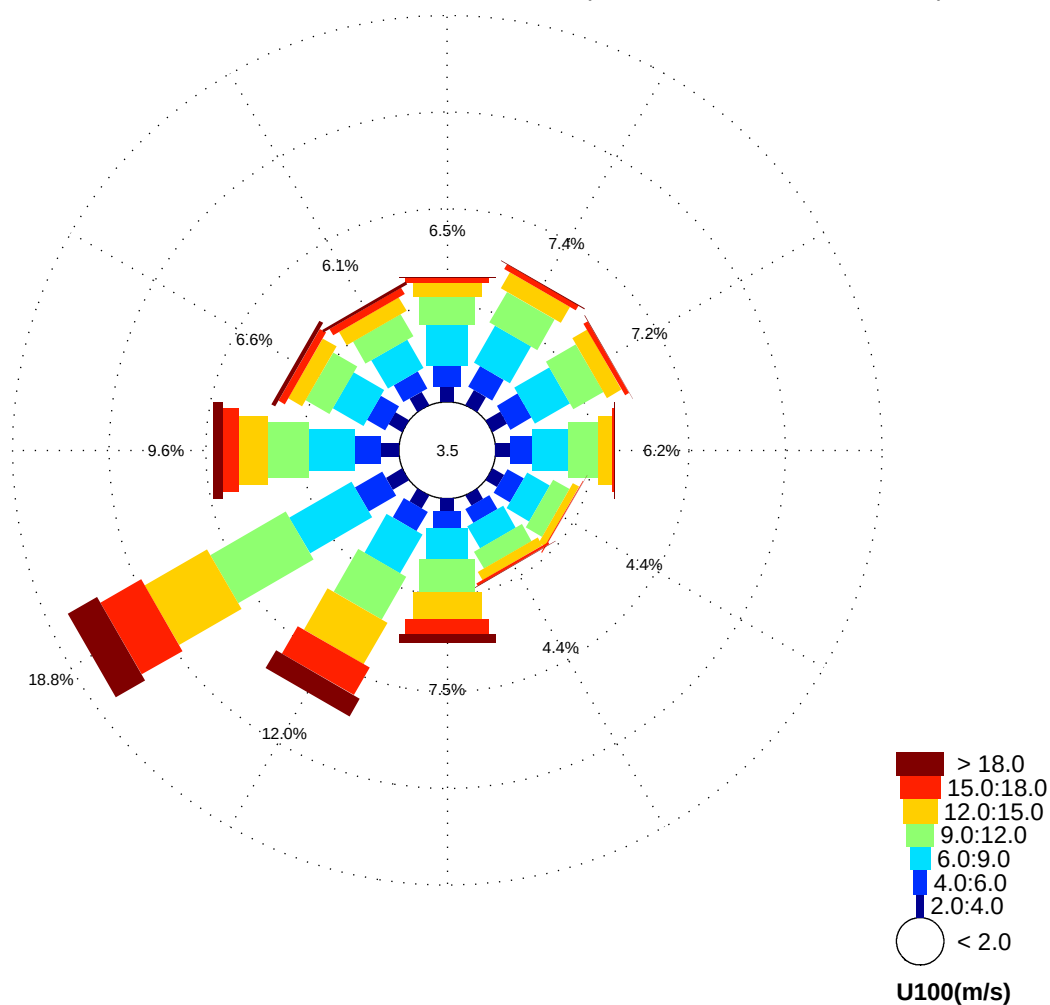
Height: 90m

Monthly

Deltares

App. A.1.008

Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=9.3 m/s, max=38.2m/s)



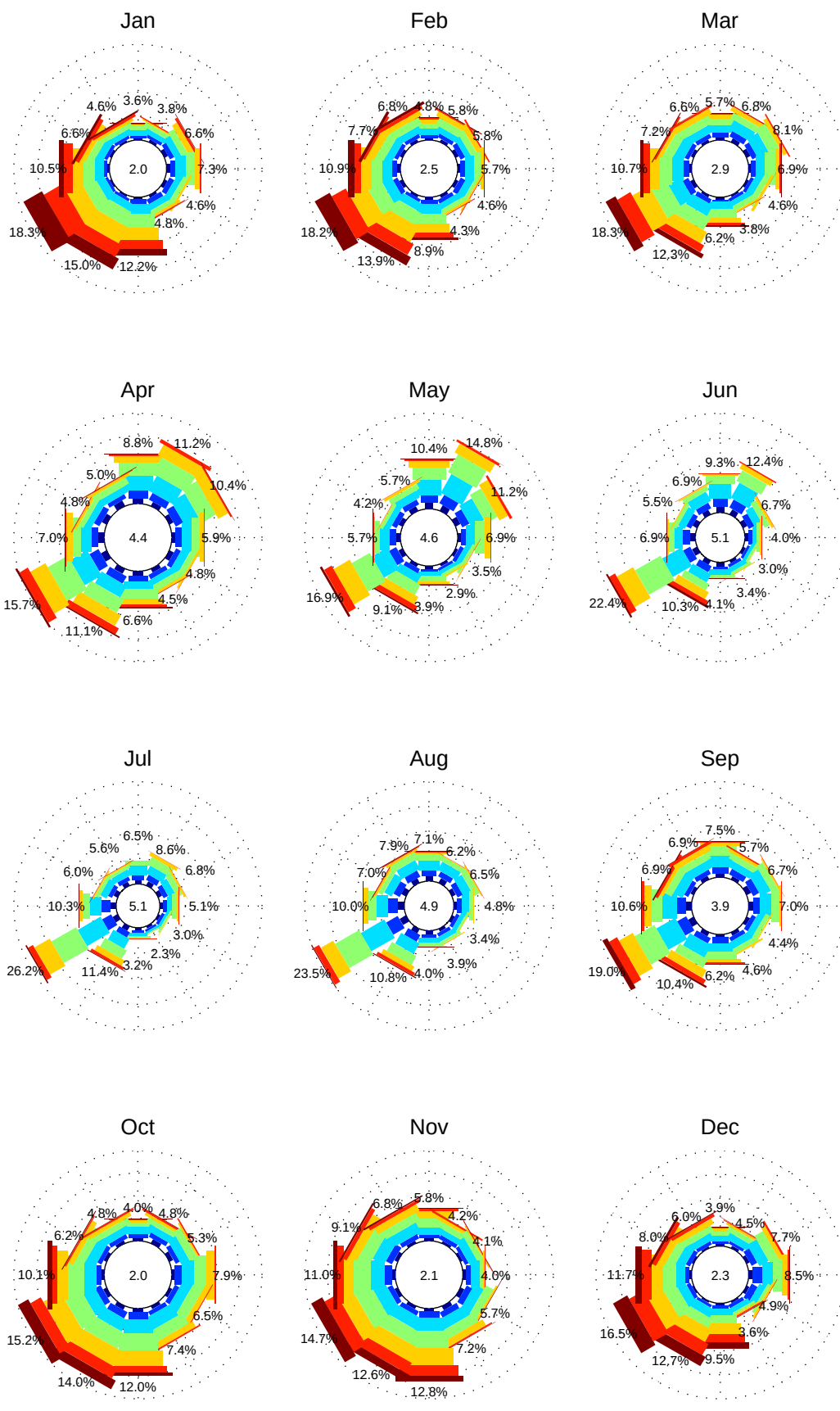
Annual wind rose at height of 100m
Nautical convention: coming from, clockwise from North

Height: 100m

All Year

Deltares

App. A.1.009



Monthly wind roses at height of 100m
Nautical convention: coming from, clockwise from North

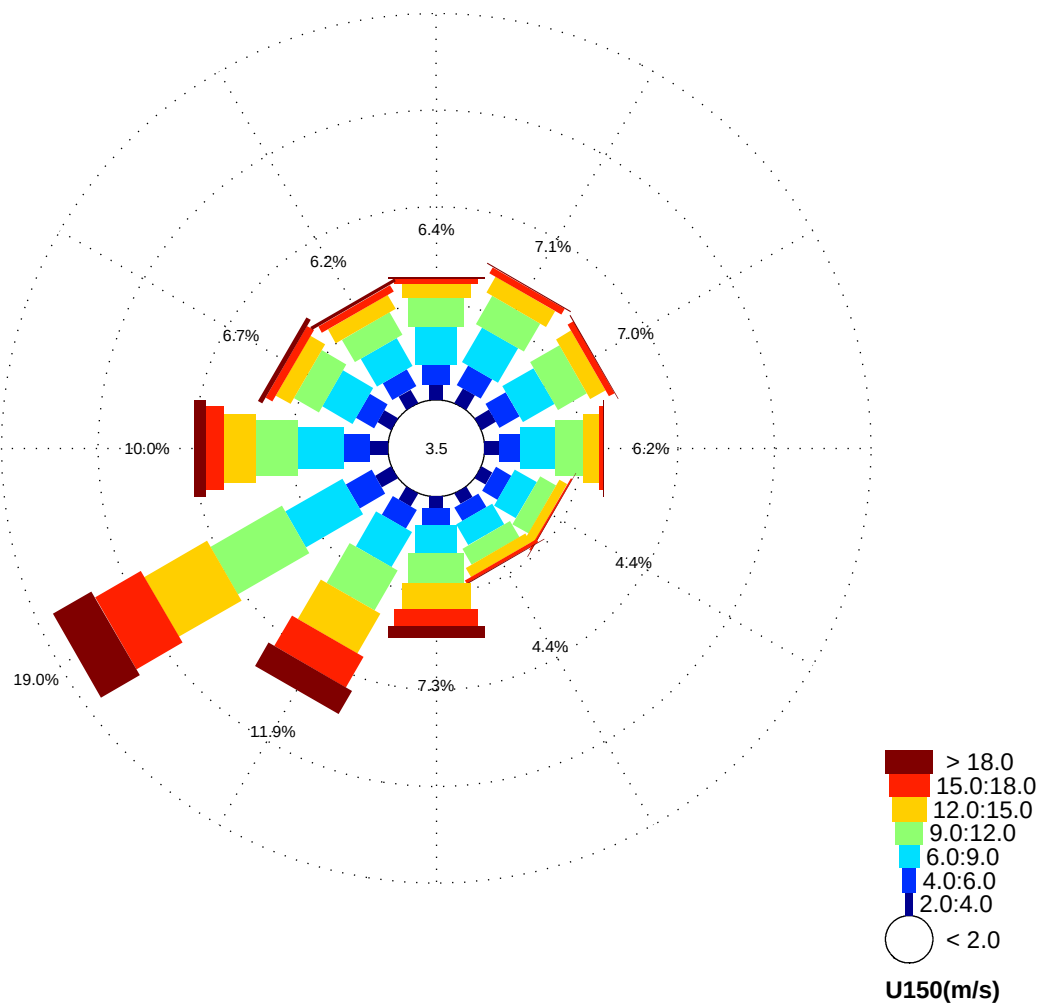
Height: 100m

Monthly

Deltares

App. A.1.010

Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=9.6 m/s, max=39.6m/s)



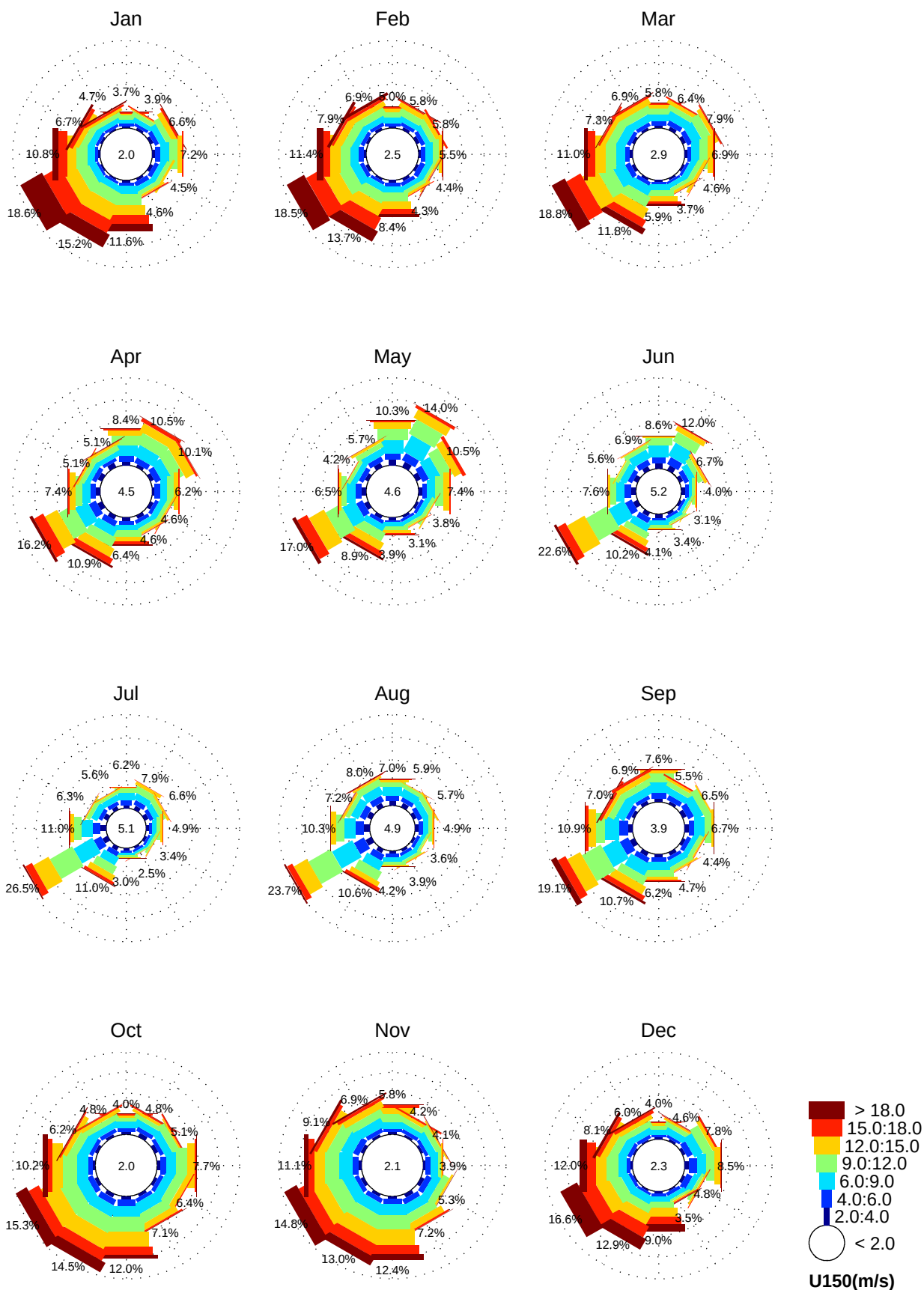
Annual wind rose at height of 150m
Nautical convention: coming from, clockwise from North

Height: 150m

All Year

Deltares

App. A.1.011



Monthly wind roses at height of 150m
Nautical convention: coming from, clockwise from North

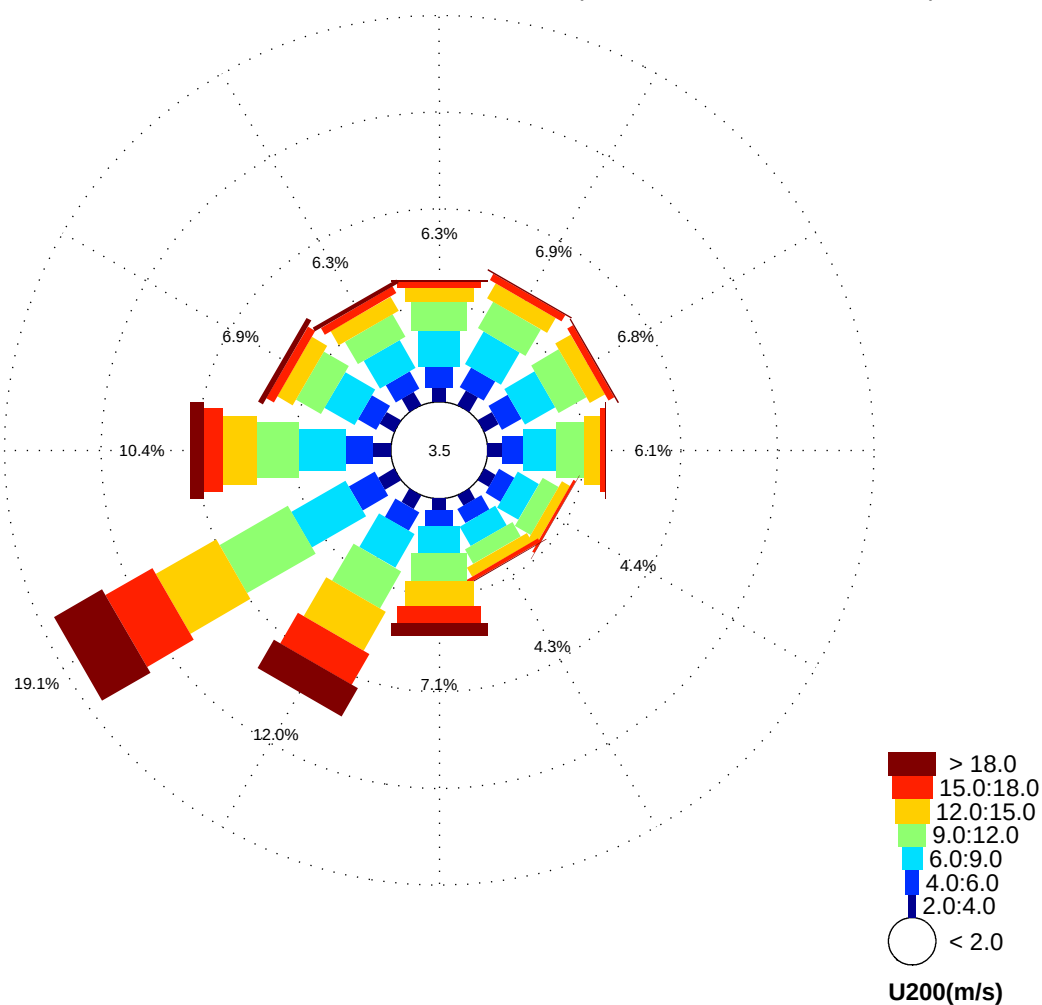
Height: 150m

Monthly

Deltares

App. A.1.012

Data from 01-Jan-1987 01:00:00 until 01-Jan-2014 (mean=9.7 m/s, max=40.7m/s)



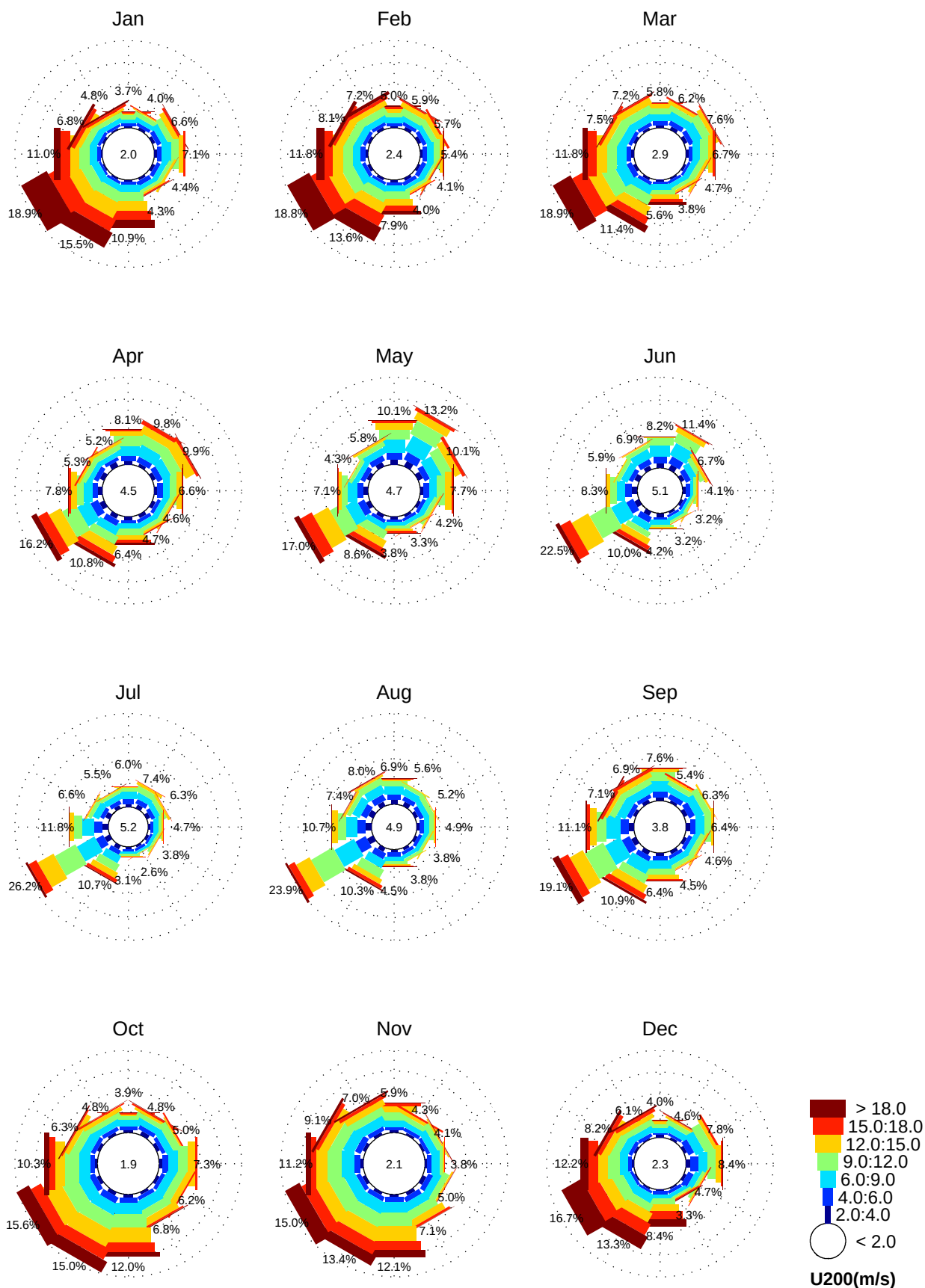
Annual wind rose at height of 200m
Nautical convention: coming from, clockwise from North

Height: 200m

All Year

Deltares

App. A.1.013



Monthly wind roses at height of 200m
Nautical convention: coming from, clockwise from North

Height: 200m

Monthly

Deltares

App. A.1.014

Dir10 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U10 (m/s)	>18.0	0.01	0.00	0.00			0.00	0.11	0.26	0.34	0.12	0.06	0.04	0.94
	15.0-18.0	0.08	0.05	0.04	0.02	0.01	0.04	0.40	0.89	1.37	0.47	0.23	0.19	3.80
	12.0-15.0	0.44	0.53	0.41	0.36	0.11	0.21	1.12	2.15	3.03	1.17	0.61	0.62	10.75
	9.0-12.0	1.30	1.55	1.31	0.96	0.57	0.67	1.70	2.99	4.60	2.05	1.34	1.27	20.29
	6.0-9.0	2.34	2.74	2.46	1.92	1.29	1.35	1.96	2.93	4.59	2.47	1.87	1.79	27.72
	4.0-6.0	1.43	1.75	1.74	1.60	1.25	1.14	1.23	1.77	2.24	1.43	1.19	1.15	17.91
	2.0-4.0	1.07	1.35	1.38	1.21	1.08	0.99	1.05	1.33	1.44	1.15	0.95	0.92	13.92
	0.0-2.0	0.37	0.39	0.40	0.42	0.39	0.36	0.40	0.43	0.44	0.39	0.34	0.34	4.67
	7.05	8.36	7.74	6.47	4.71	4.76	7.96	12.74	18.05	9.25	6.59	6.32	100.00	
All year													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		All Year			
Deltares											App. A.2.001			

Dir10 (° N)														
345-15 15-45 45-75 75-105 105-135 135-165 165-195 195-225 225-255 255-285 285-315 315-345														
U10 (m/s)	>18.0	0.02					0.01	0.26	0.86	0.95	0.23	0.17	0.06	2.57
	15.0-18.0	0.10	0.03	0.21			0.06	1.09	1.81	3.19	0.88	0.50	0.35	8.22
	12.0-15.0	0.31	0.36	0.94	0.77	0.08	0.43	2.93	3.58	5.22	2.46	1.01	0.62	18.71
	9.0-12.0	0.76	0.71	1.67	1.74	1.02	0.96	3.42	4.88	4.06	2.55	1.49	0.96	24.23
	6.0-9.0	1.28	1.26	1.69	2.54	1.56	1.61	3.10	2.63	3.02	2.56	1.75	1.33	24.32
	4.0-6.0	0.63	0.71	1.08	1.49	1.23	1.37	1.19	0.81	0.83	1.18	0.98	0.75	12.26
	2.0-4.0	0.48	0.60	0.85	0.81	0.89	0.74	0.65	0.39	0.41	0.50	0.57	0.44	7.33
	0.0-2.0	0.13	0.16	0.30	0.23	0.30	0.18	0.21	0.24	0.15	0.19	0.12	0.13	2.35
		3.71	3.83	6.74	7.58	5.08	5.36	12.86	15.21	17.82	10.56	6.59	4.65	100.00
Jan														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Jan			
Deltares											App. A.2.002			

Dir10 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U10 (m/s)	>18.0	0.04	0.04				0.14	0.37	0.61	0.46	0.11	0.17	1.94												
	15.0-18.0	0.16	0.11		0.10	0.08	0.01	0.32	1.53	2.61	0.98	0.63	0.50	7.04											
	12.0-15.0	0.77	0.76	0.99	0.40	0.26	0.23	1.39	2.92	3.95	1.69	0.86	0.98	15.20											
	9.0-12.0	0.98	1.72	1.43	1.21	0.55	0.82	2.27	4.24	4.28	2.17	2.23	1.62	23.53											
	6.0-9.0	1.50	1.59	1.41	2.12	1.10	1.44	2.72	3.16	3.36	2.62	1.67	1.60	24.30											
	4.0-6.0	0.72	0.91	1.02	1.45	1.59	1.33	1.59	1.34	1.69	1.32	0.99	0.90	14.85											
	2.0-4.0	0.52	0.68	0.93	0.85	1.05	0.88	0.81	0.79	0.96	1.10	0.90	0.68	10.16											
	0.0-2.0	0.27	0.24	0.24	0.23	0.29	0.22	0.20	0.22	0.29	0.24	0.24	0.29	2.99											
													4.97	6.06	6.01	6.37	4.93	4.94	9.45	14.59	17.74	10.57	7.63	6.74	100.00
Feb													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Feb														
Deltares											App. A.2.003														

Dir10 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U10 (m/s)	>18.0	0.00					0.10	0.18	0.52	0.10	0.06	0.00	0.98												
	15.0-18.0	0.15	0.04	0.10	0.07		0.00	0.25	0.71	1.39	0.63	0.14	0.17	3.67											
	12.0-15.0	0.45	0.58	0.56	0.59	0.05	0.06	0.59	1.92	3.48	1.62	0.57	0.81	11.27											
	9.0-12.0	1.34	1.33	1.61	1.33	0.75	0.46	1.06	2.66	4.38	2.48	1.43	1.91	20.74											
	6.0-9.0	1.72	2.52	2.81	2.37	1.78	1.38	2.02	3.62	3.69	2.83	2.08	1.74	28.57											
	4.0-6.0	1.10	1.86	1.85	1.48	1.13	1.44	1.41	2.26	2.04	1.37	1.45	0.99	18.37											
	2.0-4.0	0.80	1.40	1.34	0.97	0.82	0.80	1.02	1.24	1.61	0.86	0.86	0.71	12.43											
	0.0-2.0	0.35	0.35	0.37	0.29	0.35	0.29	0.28	0.35	0.42	0.39	0.23	0.28	3.97											
													5.91	8.09	8.65	7.11	4.87	4.45	6.74	12.94	17.52	10.28	6.83	6.60	100.00
Mar													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Mar														
Deltares											App. A.2.004														

Dir10 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
>18.0								0.01	0.04			0.05	
15.0-18.0	0.08	0.04	0.07			0.01	0.22	0.23	0.25	0.02	0.03	0.08	1.01
12.0-15.0	0.60	1.02	0.40	0.16	0.01	0.14	0.49	1.47	1.83	0.47	0.28	0.24	7.11
9.0-12.0	2.15	2.98	2.56	0.80	0.10	0.43	0.97	2.47	3.24	1.12	0.67	1.10	18.57
6.0-9.0	3.20	4.56	3.53	1.57	1.30	1.32	1.65	3.06	4.09	1.65	1.10	1.26	28.28
4.0-6.0	2.13	2.00	2.37	1.66	1.61	1.32	1.39	2.44	2.34	1.09	0.83	0.91	20.10
2.0-4.0	1.41	1.53	1.75	1.52	1.64	1.45	1.55	1.99	2.14	1.24	1.10	1.20	18.53
0.0-2.0	0.50	0.48	0.43	0.57	0.47	0.51	0.63	0.64	0.54	0.59	0.48	0.50	6.34
	10.08	12.61	11.11	6.28	5.12	5.17	6.91	12.31	14.46	6.18	4.48	5.29	100.00
Apr													Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Apr		
Deltares											App. A.2.005		

Dir10 (° N)												
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345
>18.0								0.07	0.07			0.14
15.0-18.0		0.01				0.01	0.01	0.51	0.43			0.02
12.0-15.0	0.10	0.40	0.11	0.01	0.01	0.02	0.07	1.59	1.93	0.11	0.08	0.31
9.0-12.0	1.02	2.26	0.64	0.17	0.05	0.12	0.33	2.28	5.70	0.81	0.65	0.66
6.0-9.0	4.26	4.60	1.85	0.98	0.64	0.58	0.88	2.69	6.78	1.71	1.61	2.54
4.0-6.0	2.91	3.19	2.12	1.30	1.06	0.83	0.86	2.27	3.11	1.39	1.40	1.74
2.0-4.0	2.03	2.28	1.96	1.77	1.54	1.43	1.59	2.18	2.03	1.56	1.32	1.45
0.0-2.0	0.58	0.61	0.59	0.63	0.64	0.55	0.58	0.63	0.58	0.56	0.49	0.56
	10.90	13.35	7.28	4.87	3.94	3.53	4.33	12.22	20.63	6.14	5.54	7.27
												100.00
Jun												Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Jun	
Deltares											App. A.2.007	

Dir10 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U10 (m/s)	>18.0					0.01	0.18	0.55	0.52	0.27	0.03	0.01	1.57	
	15.0-18.0	0.10	0.19	0.04		0.00	0.07	0.54	1.45	1.69	0.80	0.16	0.10	5.15
	12.0-15.0	0.33	0.53	0.37	1.01	0.40	0.51	1.80	2.73	3.08	1.43	0.56	0.51	13.26
	9.0-12.0	0.74	0.90	1.05	2.08	1.75	1.78	3.45	3.72	4.49	2.95	1.60	1.21	25.71
	6.0-9.0	1.31	1.31	1.91	2.51	2.47	3.24	3.31	2.78	2.80	2.90	2.18	1.38	28.11
	4.0-6.0	0.86	0.92	1.14	1.66	1.14	1.36	1.59	1.41	1.28	0.92	0.99	0.90	14.17
	2.0-4.0	0.57	0.94	0.89	0.87	0.87	0.81	0.99	1.02	0.88	0.64	0.63	0.60	9.69
	0.0-2.0	0.19	0.25	0.21	0.20	0.18	0.21	0.21	0.19	0.24	0.14	0.14	0.16	2.33
4.105.045.628.326.828.0012.0713.8514.9710.056.294.87100.00														
Oct													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Oct			
Deltares											App. A.2.011			

Dir10 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U10 (m/s)	>18.0	0.04		0.02				0.15	0.31	0.41	0.10	0.10	0.10	1.22
	15.0-18.0	0.10	0.06	0.06		0.06	0.10	1.05	1.26	2.12	0.76	0.41	0.35	6.32
	12.0-15.0	0.93	0.51	0.14	0.18	0.12	0.62	2.80	2.90	3.04	1.59	1.27	1.01	15.12
	9.0-12.0	1.88	1.16	0.92	0.59	1.04	1.93	3.87	3.32	3.77	3.01	2.41	1.67	25.56
	6.0-9.0	1.41	1.08	1.65	1.57	2.36	2.41	3.34	2.72	3.25	3.23	2.71	2.01	27.73
	4.0-6.0	0.85	0.87	0.90	1.04	1.31	1.35	1.38	1.09	1.09	1.39	1.34	1.01	13.62
	2.0-4.0	0.43	0.48	0.47	0.70	0.94	0.94	0.66	0.62	0.74	0.74	0.76	0.57	8.05
	0.0-2.0	0.17	0.17	0.15	0.14	0.15	0.24	0.23	0.22	0.22	0.29	0.22	0.19	2.39
	5.82	4.33	4.30	4.22	5.98	7.58	13.49	12.43	14.63	11.11	9.21	6.90	100.00	
Nov													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 10m		Nov			
Deltares											App. A.2.012			

Dir70 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U70 (m/s)	>18.0	0.03	0.03	0.02	0.01	0.01	0.02	0.26	0.88	1.51	0.41	0.18	0.12	3.47
	15.0-18.0	0.16	0.24	0.16	0.11	0.04	0.09	0.58	1.52	2.36	0.75	0.35	0.36	6.71
	12.0-15.0	0.49	0.88	0.77	0.55	0.25	0.41	1.32	2.61	3.71	1.36	0.79	0.75	13.88
	9.0-12.0	1.03	1.99	1.88	1.33	0.87	1.04	2.01	2.91	4.73	1.92	1.41	1.19	22.32
	6.0-9.0	1.21	2.58	2.40	1.85	1.34	1.46	2.48	2.78	4.39	2.04	1.80	1.49	25.82
	4.0-6.0	0.50	1.33	1.51	1.15	0.94	0.90	1.44	1.47	2.10	1.27	0.99	0.87	14.47
	2.0-4.0	0.22	0.84	1.01	0.79	0.64	0.71	1.16	1.07	1.26	0.89	0.68	0.54	9.82
	0.0-2.0	0.08	0.19	0.31	0.29	0.28	0.41	0.53	0.46	0.37	0.30	0.19	0.10	3.51
	3.72	8.07	8.05	6.08	4.37	5.03	9.79	13.71	20.43	8.92	6.39	5.42	100.00	
All year													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 70m		All Year			
Deltares											App. A.2.014			

Dir70 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U70 (m/s)	>18.0	0.09	0.12		0.04	0.05		0.26	1.65	3.00	1.06	0.62	0.48	7.38
	15.0-18.0	0.21	0.27	0.22	0.18	0.14	0.13	0.69	2.35	3.19	1.37	0.56	0.72	10.04
	12.0-15.0	0.65	1.14	1.16	0.44	0.28	0.43	1.68	4.25	4.16	1.87	1.43	1.04	18.53
	9.0-12.0	0.76	1.58	1.31	1.34	0.65	1.06	2.16	2.95	3.87	2.11	1.89	1.62	21.31
	6.0-9.0	0.90	1.21	1.27	1.88	1.33	1.44	2.74	2.47	2.81	1.94	1.60	1.32	20.90
	4.0-6.0	0.28	0.84	1.20	1.04	1.27	1.02	1.29	0.93	1.21	1.08	0.74	0.85	11.74
	2.0-4.0	0.16	0.66	0.77	0.59	0.69	0.92	0.83	0.72	0.57	0.63	0.52	0.52	7.57
	0.0-2.0	0.07	0.22	0.15	0.26	0.25	0.32	0.39	0.25	0.17	0.15	0.14	0.15	2.51

Dir70 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U70 (m/s)	>18.0	0.04	0.02	0.02	0.03			0.25	0.69	1.86	0.56	0.13	0.07	3.68
	15.0-18.0	0.17	0.17	0.28	0.31	0.01	0.00	0.43	1.33	2.95	1.03	0.37	0.39	7.45
	12.0-15.0	0.59	0.95	0.74	0.72	0.35	0.34	0.93	2.80	4.19	1.87	0.71	1.06	15.23
	9.0-12.0	0.97	1.32	2.39	1.73	1.19	1.19	2.02	3.44	3.95	2.37	1.83	1.55	23.95
	6.0-9.0	1.03	2.37	3.06	1.87	1.45	1.50	2.49	3.33	3.69	2.11	2.37	1.49	26.76
	4.0-6.0	0.61	1.34	1.37	0.90	0.73	0.62	1.06	1.40	1.60	1.07	1.08	0.72	12.50
	2.0-4.0	0.20	0.89	0.84	0.73	0.40	0.48	0.89	0.73	0.81	0.64	0.50	0.46	7.57
	0.0-2.0	0.07	0.22	0.30	0.26	0.14	0.33	0.45	0.37	0.21	0.16	0.17	0.15	2.85

Dir70 (° N)														
345-1515-4545-7575-105105-135135-165165-195195-225225-255255-285285-315315-345														
U70 (m/s)	>18.0		0.01					0.02	0.34	0.97	0.13	0.21	0.03	1.70
	15.0-18.0	0.12	0.22	0.06	0.05	0.04	0.01	0.15	0.94	1.91	0.52	0.48	0.58	5.09
	12.0-15.0	0.47	0.68	0.26	0.39	0.21	0.28	0.67	1.80	3.42	1.36	0.81	1.15	11.50
	9.0-12.0	1.41	1.42	1.42	1.26	0.90	0.95	1.86	2.15	5.00	1.94	1.51	1.25	21.08
	6.0-9.0	1.33	2.02	2.66	2.54	1.39	1.56	2.89	3.39	5.13	2.82	2.03	1.58	29.34
	4.0-6.0	0.65	1.33	1.76	1.32	1.08	1.00	1.56	1.66	2.69	1.53	0.95	0.95	16.46
	2.0-4.0	0.30	0.68	1.25	1.02	0.72	0.72	1.18	1.03	1.64	0.93	0.81	0.61	10.88
	0.0-2.0	0.04	0.19	0.26	0.42	0.30	0.39	0.66	0.48	0.43	0.42	0.21	0.15	3.95
4.336.547.686.994.644.918.9711.8021.189.667.016.30100.00														
Sep													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 70m		Sep			
Deltares											App. A.2.023			

Dir70 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U70 (m/s)	>18.0	0.04	0.06	0.00			0.03	0.31	1.48	1.95	0.75	0.09	0.06	4.78
	15.0-18.0	0.16	0.41	0.14	0.21	0.10	0.23	0.82	1.97	2.32	0.90	0.26	0.36	7.89
	12.0-15.0	0.35	0.49	0.31	1.36	0.76	0.97	2.34	3.24	3.74	1.74	0.83	0.71	16.84
	9.0-12.0	0.47	0.81	1.54	2.11	1.88	2.45	3.21	3.40	3.66	2.76	1.56	1.11	24.96
	6.0-9.0	0.89	1.30	1.83	2.22	1.81	2.79	2.88	2.61	2.48	2.06	1.93	1.19	23.98
	4.0-6.0	0.43	0.78	1.12	1.16	0.92	0.93	1.64	1.38	1.16	0.84	0.61	0.77	11.74
	2.0-4.0	0.18	0.65	0.91	0.72	0.61	0.61	0.97	0.92	0.75	0.50	0.47	0.45	7.74
	0.0-2.0	0.05	0.18	0.23	0.18	0.19	0.20	0.37	0.27	0.14	0.14	0.05	0.04	2.07
2.584.686.097.966.278.2212.5415.2616.229.695.804.68100.00														
OctTotal														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 70m		Oct			
Deltares											App. A.2.024			

Dir80 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U80 (m/s)	>18.0	0.05	0.03	0.02	0.01	0.01	0.02	0.40	0.93	1.53	0.42	0.20	0.13	3.76
	15.0-18.0	0.21	0.25	0.20	0.12	0.04	0.11	0.73	1.52	2.28	0.78	0.37	0.36	6.97
	12.0-15.0	0.67	0.89	0.82	0.64	0.31	0.43	1.34	2.47	3.61	1.45	0.80	0.78	14.21
	9.0-12.0	1.49	1.87	1.83	1.49	0.95	0.99	1.74	2.64	4.54	2.11	1.42	1.30	22.36
	6.0-9.0	2.14	2.31	2.19	1.93	1.43	1.35	1.70	2.46	3.93	2.34	1.82	1.70	25.31
	4.0-6.0	1.13	1.29	1.30	1.21	0.99	0.87	0.93	1.23	1.72	1.39	1.11	1.03	14.20
	2.0-4.0	0.80	0.91	0.89	0.77	0.70	0.62	0.67	0.79	0.99	0.94	0.82	0.79	9.70
	0.0-2.0	0.28	0.32	0.29	0.30	0.28	0.26	0.28	0.29	0.31	0.31	0.29	0.27	3.49
		6.78	7.87	7.54	6.46	4.71	4.65	7.78	12.34	18.91	9.76	6.83	6.37	100.00
All year														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 80m		All Year		
Deltares												App. A.2.027		

Dir80 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U80 (m/s)	>18.0	0.09		0.10			0.04	1.12	2.30	4.05	0.76	0.46	0.29	9.22
	15.0-18.0	0.23	0.22	0.52	0.24	0.02	0.20	1.95	2.62	4.25	1.87	0.79	0.51	13.41
	12.0-15.0	0.33	0.30	1.17	0.99	0.44	0.60	2.65	3.97	3.94	2.23	1.05	0.59	18.26
	9.0-12.0	0.94	0.96	1.48	1.86	1.07	1.04	3.05	3.33	3.12	2.38	1.44	1.01	21.66
	6.0-9.0	1.02	1.07	1.50	2.27	1.31	1.34	2.13	1.63	1.96	1.95	1.59	1.13	18.90
	4.0-6.0	0.66	0.66	1.00	1.23	1.12	1.10	0.97	0.65	0.56	0.85	0.82	0.70	10.31
	2.0-4.0	0.33	0.59	0.78	0.69	0.73	0.58	0.51	0.36	0.40	0.41	0.48	0.36	6.24
	0.0-2.0	0.09	0.16	0.22	0.22	0.26	0.15	0.16	0.20	0.11	0.19	0.11	0.11	1.99
		3.70	3.97	6.77	7.51	4.95	5.05	12.53	15.07	18.38	10.63	6.75	4.69	100.00
Jan														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 80m		Jan		
Deltares												App. A.2.028		

Dir80 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U80 (m/s)	>18.0	0.06	0.02	0.03	0.04		0.00	0.31	0.81	1.95	0.60	0.16	0.07	4.07
	15.0-18.0	0.26	0.20	0.29	0.32	0.01	0.02	0.47	1.39	2.91	1.11	0.39	0.42	7.80
	12.0-15.0	0.78	0.92	0.80	0.83	0.48	0.37	0.96	2.63	4.06	2.08	0.75	1.14	15.78
	9.0-12.0	1.34	1.39	2.26	2.06	1.21	1.14	1.81	3.06	3.63	2.62	1.81	1.78	24.11
	6.0-9.0	1.63	2.27	2.72	2.06	1.62	1.28	1.77	2.89	3.22	2.52	2.22	1.68	25.89
	4.0-6.0	1.01	1.34	1.19	0.97	0.73	0.66	0.54	1.20	1.36	1.08	1.11	0.90	12.08
	2.0-4.0	0.57	0.90	0.85	0.59	0.50	0.41	0.46	0.51	0.79	0.63	0.65	0.56	7.41
	0.0-2.0	0.32	0.29	0.21	0.22	0.20	0.17	0.25	0.20	0.27	0.30	0.22	0.21	2.87
5.98 7.33 8.35 7.09 4.75 4.06 6.56 12.69 18.18 10.93 7.30 6.76 100.00														
Mar													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Mar			
Deltares											App. A.2.030			

Dir80 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U80 (m/s)	>18.0	0.04	0.01	0.02				0.16	0.15	0.28	0.01		0.04	0.70											
	15.0-18.0	0.25	0.53	0.18	0.06		0.09	0.43	1.07	1.33	0.16	0.15	0.15	4.41											
	12.0-15.0	1.05	1.92	1.91	0.64	0.27	0.35	0.88	1.95	2.90	1.09	0.41	0.44	13.82											
	9.0-12.0	2.40	3.51	2.99	1.50	1.01	1.18	1.66	2.91	4.08	1.37	0.89	1.19	24.68											
	6.0-9.0	2.84	3.26	3.00	1.76	1.71	1.27	1.49	2.67	3.81	1.74	1.19	1.18	25.92											
	4.0-6.0	1.40	1.41	1.53	1.14	0.98	0.91	0.93	1.54	1.95	1.29	1.08	0.81	14.96											
	2.0-4.0	0.97	0.86	0.80	0.72	0.86	0.78	0.87	1.08	1.16	1.01	0.92	1.09	11.12											
	0.0-2.0	0.39	0.39	0.32	0.35	0.30	0.35	0.35	0.39	0.32	0.40	0.42	0.40	4.39											
													9.34	11.90	10.75	6.16	5.14	4.93	6.77	11.75	15.83	7.06	5.07	5.30	100.00
Apr													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Apr														
Deltares											App. A.2.031														

Dir80 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U80 (m/s)	>18.0					0.01	0.01	0.42	0.34			0.01	0.79	
	15.0-18.0	0.02	0.24	0.03		0.01	0.01	0.04	1.06	1.37	0.05	0.02	0.08	2.92
	12.0-15.0	0.27	1.14	0.49	0.14	0.06	0.13	0.19	1.81	3.94	0.30	0.21	0.36	9.03
	9.0-12.0	2.13	2.96	1.43	0.92	0.63	0.52	0.61	1.86	7.17	1.25	0.88	1.02	21.38
	6.0-9.0	3.74	4.47	2.08	0.99	0.97	1.17	1.30	2.49	5.93	1.98	1.82	2.59	29.53
	4.0-6.0	1.97	2.29	1.52	0.95	0.70	0.79	0.93	1.60	2.10	1.66	1.24	1.61	17.38
	2.0-4.0	1.49	1.37	1.22	0.93	0.78	0.73	0.99	1.17	1.40	1.34	1.26	1.23	13.91
	0.0-2.0	0.34	0.45	0.44	0.39	0.45	0.45	0.47	0.42	0.46	0.40	0.40	0.39	5.06
	9.96	12.93	7.21	4.32	3.60	3.80	4.54	10.83	22.73	6.97	5.82	7.29	100.00	
Jun													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Jun			
Deltares											App. A.2.033			

Dir80 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U80 (m/s)	>18.0		0.01					0.14	0.30	0.00	0.01	0.02	0.50
	15.0-18.0		0.03	0.02	0.00		0.03	0.74	1.31	0.14	0.07	0.08	2.44
	12.0-15.0	0.21	0.80	0.50	0.28	0.04	0.02	0.23	1.56	4.40	0.81	0.37	9.62
	9.0-12.0	1.10	2.26	1.64	1.17	0.49	0.22	0.51	2.72	7.59	1.82	1.00	21.41
	6.0-9.0	2.79	2.69	2.18	1.68	0.86	0.57	0.96	3.26	7.61	3.19	1.88	29.45
	4.0-6.0	1.60	1.70	1.42	1.07	0.76	0.70	0.68	1.90	3.16	2.31	1.22	17.72
	2.0-4.0	0.95	1.33	1.24	0.94	0.71	0.65	0.76	1.45	1.59	1.66	1.29	13.77
	0.0-2.0	0.41	0.48	0.42	0.35	0.32	0.32	0.34	0.54	0.62	0.47	0.41	5.10
	7.05	9.28	7.44	5.50	3.18	2.49	3.51	12.32	26.58	10.40	6.26	5.98	100.00
Jul													Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Jul		
Deltares											App. A.2.034		

Dir80 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U80 (m/s)	>18.0	0.01	0.01			0.01	0.04	0.39	0.99	0.14	0.22	0.05	1.85
	15.0-18.0	0.15	0.24	0.05	0.08	0.04	0.04	0.22	1.01	1.81	0.59	0.50	5.30
	12.0-15.0	0.64	0.64	0.27	0.46	0.23	0.30	0.65	1.87	3.16	1.46	0.81	11.69
	9.0-12.0	2.01	1.28	1.44	1.41	0.98	0.92	1.39	1.99	4.76	2.10	1.53	21.24
	6.0-9.0	2.61	1.64	2.43	2.66	1.45	1.63	1.91	3.02	4.58	3.22	2.13	29.12
	4.0-6.0	1.24	1.30	1.53	1.34	1.01	1.02	1.25	1.31	2.26	1.80	1.01	16.12
	2.0-4.0	0.84	0.73	1.08	1.04	0.76	0.76	0.67	0.89	1.31	1.17	0.72	10.76
	0.0-2.0	0.26	0.26	0.29	0.40	0.34	0.29	0.36	0.29	0.37	0.40	0.40	3.93
	7.76	6.09	7.08	7.40	4.81	4.95	6.50	10.76	19.24	10.88	7.31	7.21	100.00
Sep												Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Sep		
Deltares											App. A.2.036		

Dir80 (° N)														
345-15 15-45 45-75 75-105 105-135 135-165 165-195 195-225 225-255 255-285 285-315 315-345														
U80 (m/s)	>18.0	0.10	0.03	0.07		0.04	0.05	0.87	1.24	1.97	0.51	0.31	0.22	5.41
	15.0-18.0	0.40	0.29	0.06	0.01	0.05	0.27	1.72	1.93	2.55	1.15	0.75	0.58	9.75
	12.0-15.0	1.21	0.65	0.23	0.35	0.32	1.13	3.12	2.94	2.80	1.89	1.55	1.23	17.44
	9.0-12.0	1.64	1.04	1.10	0.56	1.45	1.86	3.09	2.65	3.27	2.99	2.30	1.55	23.49
	6.0-9.0	1.29	1.00	1.53	1.62	1.92	2.04	2.52	2.26	2.48	2.58	2.33	1.87	23.44
	4.0-6.0	0.67	0.78	0.74	0.97	1.14	1.12	1.10	0.88	0.94	1.22	1.20	0.87	11.64
	2.0-4.0	0.44	0.43	0.40	0.56	0.75	0.78	0.51	0.53	0.62	0.61	0.65	0.49	6.76
	0.0-2.0	0.14	0.15	0.14	0.13	0.12	0.21	0.20	0.21	0.17	0.25	0.19	0.17	2.07
5.90 4.37 4.26 4.19 5.79 7.46 13.12 12.65 14.80 11.20 9.28 6.99 100.00														
Nov Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Nov			
Deltares											App. A.2.038			

Dir80 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U80 (m/s)	>18.0	0.04	0.09	0.00	0.03		0.11	1.20	2.04	3.02	1.12	0.47	0.20	8.34											
	15.0-18.0	0.20	0.19	0.37	0.28	0.11	0.28	1.67	2.56	3.53	1.90	0.81	0.68	12.59											
	12.0-15.0	0.57	0.47	0.93	1.16	0.44	0.40	2.43	2.95	3.70	2.49	1.55	1.16	18.25											
	9.0-12.0	0.87	1.05	2.04	1.95	0.73	0.57	1.64	2.16	2.98	2.78	1.83	1.34	19.93											
	6.0-9.0	1.15	1.50	2.27	2.17	1.51	1.10	1.45	1.94	2.07	2.05	1.92	1.51	20.65											
	4.0-6.0	0.59	0.68	1.44	2.03	1.49	0.84	0.85	0.63	0.86	0.82	0.95	0.76	11.94											
	2.0-4.0	0.48	0.54	0.63	0.93	0.66	0.36	0.42	0.34	0.36	0.50	0.41	0.35	5.98											
	0.0-2.0	0.12	0.21	0.35	0.30	0.23	0.19	0.15	0.15	0.20	0.16	0.14	0.08	2.31											
													4.03	4.74	8.04	8.84	5.18	3.85	9.82	12.77	16.72	11.82	8.09	6.09	100.00
Dec													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 80m		Dec														
Deltares											App. A.2.039														

Dir90 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U90 (m/s)	>18.0	0.14	0.12		0.05	0.05		0.45	1.87	3.35	1.19	0.66	0.56	8.43
	15.0-18.0	0.36	0.25	0.33	0.20	0.16	0.14	0.99	2.44	3.30	1.42	0.48	0.71	10.78
	12.0-15.0	0.87	1.14	1.14	0.57	0.33	0.43	1.73	3.78	4.04	2.05	1.50	1.10	18.68
	9.0-12.0	0.96	1.59	1.39	1.39	0.64	0.99	2.14	2.83	3.37	2.34	1.91	1.61	21.15
	6.0-9.0	1.38	1.27	1.17	1.88	1.49	1.27	2.14	1.85	2.32	1.95	1.62	1.38	19.72
	4.0-6.0	0.62	0.86	1.03	1.10	1.26	0.89	0.97	0.68	1.09	1.19	0.88	0.81	11.36
	2.0-4.0	0.50	0.62	0.76	0.58	0.68	0.60	0.60	0.52	0.69	0.65	0.63	0.62	7.44
	0.0-2.0	0.23	0.20	0.13	0.21	0.25	0.23	0.16	0.13	0.20	0.23	0.21	0.28	2.45
5.05 6.05 5.95 5.98 4.86 4.55 9.16 14.09 18.37 11.00 7.87 7.08 100.00														
Feb Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Feb			
Deltares											App. A.2.042			

Dir90 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U90 (m/s)	>18.0	0.04	0.01	0.02			0.01	0.18	0.17	0.30	0.01	0.01	0.04	0.78											
	15.0-18.0	0.28	0.57	0.26	0.07		0.09	0.50	1.12	1.53	0.19	0.15	0.16	4.92											
	12.0-15.0	1.08	2.01	1.97	0.70	0.34	0.39	0.94	2.16	3.01	1.15	0.44	0.45	14.63											
	9.0-12.0	2.41	3.40	2.95	1.52	1.06	1.19	1.63	2.76	4.08	1.36	0.89	1.20	24.46											
	6.0-9.0	2.71	3.14	2.93	1.75	1.61	1.23	1.47	2.53	3.62	1.83	1.20	1.21	25.23											
	4.0-6.0	1.38	1.38	1.50	1.06	0.95	0.87	0.94	1.45	1.90	1.26	1.05	0.82	14.58											
	2.0-4.0	0.94	0.83	0.82	0.68	0.87	0.76	0.88	1.02	1.17	1.02	0.94	1.09	11.02											
	0.0-2.0	0.43	0.36	0.31	0.34	0.27	0.39	0.38	0.38	0.34	0.40	0.39	0.42	4.38											
													9.26	11.71	10.75	6.13	5.09	4.93	6.90	11.58	15.96	7.22	5.06	5.40	100.00
Apr													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Apr														
Deltares											App. A.2.044														

Dir90 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U90 (m/s)	>18.0	0.05	0.01				0.00	0.31	0.39	0.05	0.01	0.00	0.84	
	15.0-18.0	0.28	0.49	0.36	0.05	0.00	0.02	0.14	1.02	1.65	0.03	0.05	0.07	4.18
	12.0-15.0	1.33	2.11	2.04	0.85	0.17	0.29	0.54	1.82	3.79	0.33	0.12	0.60	14.01
	9.0-12.0	2.56	4.32	2.91	2.02	0.64	0.64	1.08	2.48	4.38	0.97	0.72	1.19	23.90
	6.0-9.0	3.36	4.72	3.11	2.07	1.18	0.74	1.03	1.90	3.86	1.77	1.19	1.65	26.56
	4.0-6.0	1.64	2.08	1.72	1.05	0.87	0.63	0.51	1.05	1.77	1.43	1.16	1.19	15.10
	2.0-4.0	1.21	1.36	1.12	0.76	0.60	0.51	0.63	0.68	0.96	1.02	0.94	1.00	10.79
	0.0-2.0	0.53	0.49	0.39	0.37	0.27	0.36	0.33	0.35	0.35	0.38	0.39	0.41	4.62
	10.97	15.57	11.65	7.16	3.74	3.20	4.27	9.60	17.14	5.99	4.59	6.12	100.00	
May													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		May			
Deltares											App. A.2.045			

Dir90 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U90 (m/s)	>18.0	0.01				0.01	0.01	0.44	0.39			0.01	0.86	
	15.0-18.0	0.03	0.28	0.04		0.01	0.01	0.05	1.09	1.49	0.05	0.02	0.08	3.12
	12.0-15.0	0.29	1.26	0.58	0.18	0.11	0.14	0.24	1.90	4.21	0.35	0.22	0.37	9.85
	9.0-12.0	2.13	2.93	1.43	0.94	0.61	0.58	0.64	1.77	7.15	1.30	0.88	1.05	21.41
	6.0-9.0	3.62	4.35	2.01	0.98	0.93	1.17	1.31	2.41	5.71	2.02	1.82	2.59	28.90
	4.0-6.0	1.94	2.26	1.49	0.93	0.71	0.75	0.88	1.60	2.00	1.61	1.26	1.57	17.00
	2.0-4.0	1.45	1.39	1.15	0.93	0.74	0.74	0.95	1.18	1.41	1.36	1.27	1.22	13.79
	0.0-2.0	0.33	0.45	0.46	0.40	0.46	0.44	0.50	0.41	0.45	0.40	0.38	0.40	5.07
	9.79	12.92	7.16	4.34	3.55	3.82	4.58	10.81	22.81	7.09	5.83	7.29	100.00	
Jun													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Jun			
Deltares											App. A.2.046			

Dir90 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U90 (m/s)	>18.0		0.01					0.15	0.35	0.00	0.02	0.03	0.58	
	15.0-18.0		0.05	0.02	0.00		0.03	0.78	1.43	0.15	0.07	0.07	2.63	
	12.0-15.0	0.23	0.87	0.57	0.37	0.08	0.05	0.23	1.61	4.56	0.85	0.37	0.39	10.19
	9.0-12.0	1.12	2.26	1.64	1.20	0.50	0.26	0.52	2.69	7.78	1.91	1.03	0.90	21.80
	6.0-9.0	2.69	2.57	2.09	1.57	0.86	0.56	0.98	3.12	7.47	3.20	1.92	1.80	28.83
	4.0-6.0	1.60	1.64	1.38	1.04	0.79	0.68	0.66	1.83	2.94	2.28	1.21	1.18	17.23
	2.0-4.0	0.94	1.30	1.22	0.92	0.73	0.62	0.76	1.41	1.60	1.69	1.30	1.16	13.65
	0.0-2.0	0.40	0.49	0.43	0.36	0.32	0.31	0.35	0.48	0.64	0.44	0.44	0.41	5.08
6.979.187.385.463.292.483.5312.0826.7810.536.375.95100.00														
Jul Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Jul			
Deltares											App. A.2.047			

Dir90 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U90 (m/s)	>18.0	0.01	0.02			0.01	0.05	0.41	1.06	0.15	0.23	0.05	1.97
	15.0-18.0	0.16	0.27	0.05	0.10	0.04	0.04	0.22	1.02	1.84	0.61	0.52	5.46
	12.0-15.0	0.67	0.62	0.29	0.45	0.27	0.32	0.71	1.88	3.20	1.48	0.80	11.92
	9.0-12.0	1.99	1.26	1.48	1.51	0.98	0.98	1.42	2.01	4.76	2.08	1.51	21.40
	6.0-9.0	2.62	1.61	2.37	2.58	1.42	1.58	1.89	2.96	4.60	3.23	2.15	28.85
	4.0-6.0	1.23	1.26	1.49	1.32	0.99	0.96	1.21	1.26	2.22	1.81	1.00	15.78
	2.0-4.0	0.83	0.72	1.05	1.03	0.77	0.76	0.66	0.91	1.28	1.17	0.73	10.69
	0.0-2.0	0.26	0.28	0.28	0.39	0.35	0.27	0.36	0.29	0.36	0.41	0.38	3.92
	7.76	6.04	7.02	7.38	4.82	4.92	6.52	10.74	19.33	10.93	7.31	7.22	100.00
Sep												Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Sep		
Deltares											App. A.2.049		

Dir90 (° N)														
345-1515-4545-7575-105105-135135-165165-195195-225225-255255-285285-315315-345														
U90 (m/s)	>18.0	0.05	0.08	0.01			0.05	0.60	1.65	1.97	0.80	0.12	0.06	5.40
	15.0-18.0	0.25	0.35	0.23	0.27	0.15	0.25	1.13	1.96	2.18	0.94	0.29	0.31	8.31
	12.0-15.0	0.41	0.53	0.31	1.44	0.93	1.04	2.64	3.06	3.44	1.78	0.92	0.73	17.23
	9.0-12.0	0.61	0.88	1.44	2.25	2.00	2.26	3.13	3.09	3.38	2.92	1.59	1.09	24.63
	6.0-9.0	1.38	1.26	1.67	2.14	1.87	2.47	2.52	2.25	2.33	2.27	1.93	1.27	23.37
	4.0-6.0	0.72	0.85	0.86	1.20	0.93	0.82	1.32	1.20	1.13	0.78	0.80	0.80	11.41
	2.0-4.0	0.53	0.79	0.75	0.61	0.60	0.60	0.65	0.74	0.68	0.56	0.56	0.52	7.60
	0.0-2.0	0.20	0.22	0.20	0.14	0.18	0.18	0.18	0.17	0.17	0.13	0.13	0.14	2.05
4.164.965.498.046.677.6812.1714.1115.2910.186.344.91100.00														
OctTotal														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Oct			
Deltares											App. A.2.050			

Dir90 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U90 (m/s)	>18.0	0.10	0.03	0.07		0.04	0.06	0.92	1.32	2.11	0.59	0.33	0.26	5.83
	15.0-18.0	0.44	0.31	0.07	0.01	0.05	0.27	1.72	2.02	2.54	1.13	0.74	0.55	9.84
	12.0-15.0	1.20	0.63	0.23	0.36	0.34	1.16	3.16	2.88	2.75	1.91	1.56	1.26	17.44
	9.0-12.0	1.63	1.06	1.09	0.56	1.47	1.84	3.01	2.63	3.25	2.95	2.28	1.54	23.31
	6.0-9.0	1.29	0.98	1.53	1.60	1.90	2.01	2.48	2.22	2.44	2.58	2.30	1.86	23.19
	4.0-6.0	0.68	0.79	0.73	0.97	1.12	1.12	1.06	0.89	0.94	1.23	1.20	0.86	11.59
	2.0-4.0	0.43	0.41	0.42	0.53	0.77	0.76	0.50	0.53	0.61	0.61	0.64	0.49	6.70
	0.0-2.0	0.14	0.15	0.14	0.13	0.12	0.21	0.21	0.22	0.16	0.26	0.19	0.17	2.09
5.91 4.37 4.26 4.16 5.81 7.42 13.05 12.71 14.79 11.26 9.26 7.00 100.00														
Nov													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Nov			
Deltares											App. A.2.051			

Dir90 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U90 (m/s)	>18.0	0.04	0.09	0.00	0.03		0.13	1.28	2.09	3.23	1.17	0.51	0.24	8.83
	15.0-18.0	0.20	0.19	0.38	0.28	0.13	0.27	1.65	2.68	3.56	1.95	0.82	0.65	12.77
	12.0-15.0	0.59	0.48	0.95	1.18	0.44	0.40	2.35	2.91	3.60	2.50	1.55	1.17	18.12
	9.0-12.0	0.88	1.05	2.03	1.93	0.73	0.57	1.62	2.10	2.92	2.74	1.82	1.35	19.73
	6.0-9.0	1.14	1.51	2.27	2.19	1.49	1.09	1.40	1.94	1.99	2.05	1.92	1.48	20.47
	4.0-6.0	0.59	0.67	1.40	2.01	1.49	0.83	0.83	0.63	0.86	0.82	0.94	0.77	11.83
	2.0-4.0	0.48	0.55	0.64	0.93	0.63	0.36	0.40	0.35	0.35	0.49	0.40	0.35	5.94
	0.0-2.0	0.11	0.22	0.33	0.30	0.24	0.20	0.15	0.14	0.20	0.16	0.15	0.08	2.30
4.04 4.76 8.01 8.86 5.16 3.86 9.69 12.83 16.70 11.89 8.10 6.09 100.00														
Dec													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 90m		Dec			
Deltares											App. A.2.052			

Dir100 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U100 (m/s)	>18.0	0.06	0.04	0.03	0.01	0.01	0.03	0.45	1.07	1.76	0.48	0.23	0.15	4.31
	15.0-18.0	0.24	0.29	0.25	0.14	0.05	0.12	0.78	1.65	2.43	0.82	0.37	0.37	7.51
	12.0-15.0	0.69	0.95	0.88	0.72	0.38	0.48	1.36	2.47	3.73	1.51	0.83	0.80	14.80
	9.0-12.0	1.50	1.82	1.80	1.52	0.97	1.01	1.72	2.55	4.51	2.14	1.44	1.31	22.28
	6.0-9.0	2.08	2.20	2.08	1.87	1.36	1.30	1.62	2.31	3.72	2.35	1.83	1.70	24.42
	4.0-6.0	1.11	1.23	1.26	1.15	0.97	0.83	0.89	1.16	1.64	1.38	1.08	1.02	13.72
	2.0-4.0	0.78	0.89	0.87	0.75	0.68	0.61	0.65	0.77	0.96	0.93	0.81	0.79	9.49
	0.0-2.0	0.28	0.32	0.29	0.29	0.28	0.26	0.28	0.28	0.32	0.31	0.29	0.28	3.48
6.73 7.74 7.45 6.47 4.70 4.65 7.74 12.24 19.07 9.92 6.87 6.42 100.00														
All year Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 100m		All Year			
Deltares											App. A.2.053			

Dir100 (° N)														
345-15 15-45 45-75 75-105 105-135 135-165 165-195 195-225 225-255 255-285 285-315 315-345														
U100 (m/s)	>18.0	0.10	0.00	0.12			0.06	1.27	2.54	4.49	0.92	0.51	0.32	10.34
	15.0-18.0	0.24	0.24	0.54	0.30	0.03	0.21	2.00	2.77	4.35	1.95	0.79	0.52	13.94
	12.0-15.0	0.33	0.28	1.22	1.01	0.46	0.57	2.56	3.90	3.70	2.09	1.06	0.60	17.79
	9.0-12.0	0.96	0.99	1.42	1.82	1.05	1.04	2.95	3.17	2.98	2.48	1.45	1.01	21.32
	6.0-9.0	1.04	1.05	1.48	2.24	1.29	1.29	2.02	1.60	1.84	1.88	1.58	1.13	18.44
	4.0-6.0	0.64	0.68	0.98	1.22	1.09	1.08	0.91	0.62	0.56	0.82	0.76	0.69	10.05
	2.0-4.0	0.32	0.57	0.79	0.68	0.71	0.56	0.51	0.36	0.39	0.41	0.48	0.36	6.15
	0.0-2.0	0.09	0.17	0.21	0.22	0.26	0.14	0.17	0.18	0.12	0.17	0.12	0.10	1.97
		3.72	4.00	6.77	7.49	4.90	4.96	12.39	15.14	18.44	10.71	6.76	4.72	100.00
Jan														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 100m		Jan		
Deltares												App. A.2.054		

Dir100 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U100 (m/s)	>18.0	0.14	0.13		0.07	0.05		0.48	2.00	3.59	1.26	0.66	0.57	8.94
	15.0-18.0	0.38	0.27	0.36	0.20	0.17	0.15	1.06	2.65	3.37	1.40	0.49	0.72	11.23
	12.0-15.0	0.87	1.12	1.12	0.58	0.34	0.47	1.71	3.62	4.02	2.15	1.56	1.08	18.65
	9.0-12.0	0.96	1.59	1.38	1.38	0.67	0.99	2.08	2.81	3.23	2.32	1.89	1.62	20.91
	6.0-9.0	1.41	1.26	1.18	1.86	1.52	1.23	2.04	1.72	2.22	1.92	1.62	1.41	19.38
	4.0-6.0	0.57	0.85	1.03	1.04	1.20	0.87	0.93	0.66	1.06	1.21	0.86	0.82	11.11
	2.0-4.0	0.50	0.63	0.74	0.58	0.68	0.60	0.58	0.50	0.69	0.63	0.61	0.61	7.34
	0.0-2.0	0.23	0.20	0.13	0.22	0.23	0.24	0.16	0.13	0.21	0.21	0.22	0.28	2.45
		5.06	6.05	5.93	5.93	4.87	4.55	9.05	14.07	18.39	11.10	7.90	7.12	100.00
Feb														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 100m		Feb		
Deltares												App. A.2.055		

		Dir100 (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U100 (m/s)	>18.0	0.07	0.03	0.05	0.04		0.01	0.36	0.99	2.34	0.65	0.18	0.10	4.83	
	15.0-18.0	0.29	0.23	0.30	0.36	0.01	0.05	0.55	1.64	3.15	1.27	0.42	0.42	8.70	
	12.0-15.0	0.80	0.93	0.83	0.92	0.65	0.43	0.99	2.73	4.06	2.21	0.84	1.20	16.59	
	9.0-12.0	1.32	1.35	2.33	2.12	1.18	1.14	1.78	2.90	3.62	2.54	1.93	1.75	23.95	
	6.0-9.0	1.61	2.17	2.60	1.99	1.50	1.14	1.58	2.54	3.03	2.38	2.21	1.69	24.46	
	4.0-6.0	1.03	1.25	1.14	0.88	0.71	0.64	0.51	1.01	1.31	1.06	0.96	0.89	11.37	
	2.0-4.0	0.54	0.86	0.85	0.58	0.51	0.37	0.47	0.47	0.77	0.58	0.63	0.58	7.21	
	0.0-2.0	0.34	0.27	0.20	0.21	0.22	0.17	0.19	0.22	0.29	0.29	0.23	0.24	2.88	
		6.01	7.09	8.31	7.10	4.78	3.96	6.42	12.50	18.57	10.98	7.39	6.88	100.00	
Mar														Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 100m	Mar				
Deltares											App. A.2.056				

Dir100 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U100 (m/s)	>18.0	0.04	0.03	0.03			0.01	0.22	0.21	0.35	0.01	0.01	0.06	0.95											
	15.0-18.0	0.30	0.61	0.32	0.11	0.01	0.11	0.52	1.26	1.71	0.26	0.17	0.14	5.52											
	12.0-15.0	1.09	2.13	1.99	0.78	0.39	0.48	0.94	2.17	3.09	1.17	0.45	0.47	15.15											
	9.0-12.0	2.42	3.27	2.94	1.45	1.09	1.19	1.74	2.64	4.10	1.36	0.93	1.21	24.34											
	6.0-9.0	2.63	3.00	2.80	1.79	1.49	1.12	1.40	2.39	3.48	1.88	1.20	1.22	24.41											
	4.0-6.0	1.38	1.37	1.48	1.08	0.94	0.84	0.94	1.45	1.82	1.26	1.11	0.79	14.44											
	2.0-4.0	0.92	0.80	0.81	0.66	0.87	0.73	0.86	0.99	1.13	1.01	0.94	1.10	10.82											
	0.0-2.0	0.40	0.37	0.32	0.33	0.27	0.34	0.39	0.37	0.35	0.39	0.40	0.45	4.37											
													9.19	11.57	10.69	6.20	5.06	4.81	7.00	11.48	16.03	7.34	5.20	5.44	100.00
Apr													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 100m		Apr														
Deltares											App. A.2.057														

		Dir100 (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U100 (m/s)	>18.0	0.05	0.02					0.01	0.34	0.47	0.05	0.01	0.01	0.98
	15.0-18.0	0.28	0.54	0.54	0.08	0.01	0.04	0.15	1.06	1.81	0.03	0.05	0.07	4.67
	12.0-15.0	1.37	2.13	2.09	1.01	0.19	0.31	0.59	1.80	3.95	0.37	0.12	0.61	14.53
	9.0-12.0	2.59	4.23	2.70	2.06	0.72	0.62	1.09	2.44	4.30	1.00	0.73	1.19	23.68
	6.0-9.0	3.29	4.57	3.05	1.95	1.19	0.77	0.95	1.81	3.71	1.85	1.22	1.63	25.99
	4.0-6.0	1.63	1.99	1.68	1.04	0.84	0.64	0.51	0.99	1.74	1.41	1.16	1.17	14.80
	2.0-4.0	1.19	1.32	1.13	0.76	0.59	0.53	0.62	0.70	0.96	1.02	0.90	1.05	10.75
	0.0-2.0	0.50	0.49	0.40	0.36	0.29	0.32	0.34	0.32	0.35	0.40	0.38	0.43	4.59
		10.92	15.31	11.58	7.25	3.83	3.23	4.27	9.44	17.29	6.13	4.58	6.16	100.00
May														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 100m		May			
Deltares											App. A.2.058			

Dir100 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U100 (m/s)	>18.0	0.01				0.01	0.02	0.50	0.43	0.01		0.01	0.98	
	15.0-18.0	0.03	0.32	0.06	0.01	0.01	0.01	0.06	1.10	1.66	0.06	0.02	0.08	3.40
	12.0-15.0	0.30	1.34	0.64	0.21	0.11	0.16	0.27	1.91	4.53	0.38	0.23	0.37	10.47
	9.0-12.0	2.16	2.88	1.44	0.96	0.65	0.61	0.65	1.73	7.12	1.31	0.91	1.11	21.50
	6.0-9.0	3.50	4.26	1.91	0.97	0.84	1.21	1.30	2.31	5.34	2.15	1.83	2.57	28.18
	4.0-6.0	1.89	2.22	1.50	0.93	0.66	0.77	0.82	1.66	1.98	1.61	1.23	1.54	16.82
	2.0-4.0	1.46	1.39	1.12	0.94	0.72	0.67	0.97	1.11	1.38	1.35	1.24	1.20	13.55
	0.0-2.0	0.33	0.47	0.45	0.38	0.47	0.46	0.47	0.38	0.47	0.45	0.35	0.41	5.10
	9.67	12.90	7.11	4.39	3.46	3.90	4.54	10.70	22.92	7.31	5.81	7.29	100.00	
Jun													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 100m		Jun			
Deltares											App. A.2.059			

Dir100 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U100 (m/s)	>18.0		0.01					0.17	0.38	0.00	0.02	0.04	0.63	
	15.0-18.0		0.06	0.07	0.01		0.03	0.81	1.56	0.18	0.08	0.07	2.89	
	12.0-15.0	0.26	0.97	0.54	0.44	0.11	0.08	0.27	1.67	4.76	0.86	0.37	0.40	10.75
	9.0-12.0	1.14	2.23	1.63	1.20	0.56	0.28	0.52	2.68	7.86	1.97	1.05	0.89	22.02
	6.0-9.0	2.62	2.44	2.01	1.55	0.81	0.56	0.96	3.04	7.24	3.28	1.93	1.83	28.27
	4.0-6.0	1.55	1.57	1.37	0.99	0.81	0.69	0.66	1.71	2.82	2.29	1.23	1.18	16.87
	2.0-4.0	0.91	1.28	1.19	0.94	0.71	0.64	0.73	1.36	1.58	1.67	1.30	1.16	13.47
	0.0-2.0	0.38	0.50	0.43	0.37	0.31	0.33	0.33	0.49	0.63	0.49	0.42	0.42	5.11
	6.85	9.06	7.26	5.51	3.31	2.58	3.50	11.94	26.84	10.75	6.40	6.00	100.00	
Jul													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 100m		Jul			
Deltares											App. A.2.060			

Dir100 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U100 (m/s)	>18.0	0.01	0.02			0.01	0.05	0.43	1.11	0.16	0.24	0.05	2.07
	15.0-18.0	0.17	0.30	0.05	0.10	0.04	0.05	0.22	1.04	1.87	0.60	0.55	5.60
	12.0-15.0	0.68	0.62	0.31	0.46	0.30	0.36	0.72	1.89	3.32	1.51	0.79	12.18
	9.0-12.0	2.01	1.26	1.55	1.56	0.99	1.01	1.49	1.99	4.75	2.11	1.51	21.66
	6.0-9.0	2.58	1.58	2.30	2.55	1.40	1.58	1.85	2.92	4.53	3.23	2.14	28.48
	4.0-6.0	1.22	1.26	1.46	1.30	0.97	0.89	1.22	1.23	2.18	1.82	0.99	15.52
	2.0-4.0	0.82	0.71	1.03	1.00	0.75	0.75	0.65	0.91	1.27	1.20	0.73	10.60
	0.0-2.0	0.25	0.28	0.30	0.39	0.34	0.27	0.34	0.31	0.35	0.38	0.38	3.89

Dir100 (° N)														
345-15 15-45 45-75 75-105 105-135 135-165 165-195 195-225 225-255 255-285 285-315 315-345														
U100 (m/s)	>18.0	0.05	0.10	0.01			0.06	0.60	1.77	2.09	0.83	0.14	0.06	5.73
	15.0-18.0	0.26	0.34	0.24	0.28	0.18	0.25	1.22	1.99	2.14	0.93	0.27	0.32	8.42
	12.0-15.0	0.40	0.53	0.33	1.45	0.97	1.12	2.68	3.02	3.49	1.83	0.94	0.73	17.48
	9.0-12.0	0.62	0.89	1.45	2.25	1.95	2.22	3.08	3.04	3.32	2.94	1.59	1.08	24.40
	6.0-9.0	1.37	1.24	1.62	2.14	1.86	2.43	2.48	2.24	2.33	2.22	1.91	1.27	23.10
	4.0-6.0	0.72	0.86	0.85	1.17	0.92	0.78	1.26	1.22	1.13	0.78	0.81	0.80	11.30
	2.0-4.0	0.53	0.80	0.75	0.62	0.58	0.58	0.65	0.73	0.67	0.55	0.56	0.52	7.55
	0.0-2.0	0.20	0.20	0.19	0.12	0.20	0.16	0.18	0.18	0.17	0.13	0.13	0.14	2.02
4.17 4.95 5.45 8.02 6.67 7.61 12.16 14.19 15.32 10.21 6.34 4.91 100.00														
Oct Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 100m		Oct			
Deltares											App. A.2.063			

		Dir100 (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U100 (m/s)	>18.0	0.11	0.03	0.07		0.05	0.06	0.97	1.41	2.24	0.64	0.35	0.27	6.21	
	15.0-18.0	0.45	0.31	0.06	0.01	0.04	0.29	1.75	2.06	2.51	1.14	0.75	0.57	9.94	
	12.0-15.0	1.20	0.64	0.26	0.39	0.38	1.22	3.10	2.84	2.78	1.91	1.56	1.27	17.55	
	9.0-12.0	1.63	1.07	1.08	0.54	1.49	1.80	3.00	2.60	3.22	2.91	2.31	1.51	23.16	
	6.0-9.0	1.27	0.98	1.52	1.59	1.83	1.95	2.46	2.21	2.38	2.56	2.27	1.87	22.91	
	4.0-6.0	0.68	0.79	0.72	0.95	1.13	1.08	1.05	0.87	0.94	1.22	1.20	0.85	11.48	
	2.0-4.0	0.45	0.40	0.43	0.52	0.75	0.75	0.49	0.55	0.61	0.61	0.62	0.49	6.66	
	0.0-2.0	0.14	0.15	0.13	0.14	0.13	0.21	0.21	0.21	0.15	0.26	0.19	0.17	2.09	
		5.93	4.37	4.26	4.14	5.80	7.37	13.05	12.76	14.82	11.26	9.25	7.00	100.00	
Nov														Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 100m		Nov			
Deltares												App. A.2.064			

		Dir100 (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U100 (m/s)	>18.0	0.05	0.10	0.00	0.04	0.00	0.13	1.32	2.23	3.41	1.29	0.54	0.24	9.37	
	15.0-18.0	0.20	0.20	0.40	0.28	0.13	0.30	1.69	2.67	3.56	1.95	0.80	0.67	12.87	
	12.0-15.0	0.59	0.49	0.93	1.22	0.45	0.38	2.28	2.89	3.58	2.48	1.56	1.17	18.03	
	9.0-12.0	0.89	1.04	2.05	1.89	0.73	0.57	1.59	2.03	2.85	2.72	1.82	1.34	19.51	
	6.0-9.0	1.14	1.51	2.27	2.19	1.48	1.09	1.38	1.94	1.91	2.01	1.91	1.48	20.29	
	4.0-6.0	0.59	0.65	1.40	1.99	1.49	0.80	0.84	0.61	0.85	0.83	0.93	0.77	11.74	
	2.0-4.0	0.49	0.54	0.65	0.92	0.63	0.36	0.40	0.35	0.34	0.46	0.41	0.36	5.91	
	0.0-2.0	0.10	0.22	0.34	0.28	0.24	0.19	0.16	0.14	0.19	0.17	0.15	0.08	2.28	
		4.05	4.76	8.04	8.81	5.16	3.82	9.65	12.85	16.70	11.92	8.11	6.12	100.00	
Dec													Total		
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 100m		Dec			
Deltares												App. A.2.065			

Dir150 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U150 (m/s)	>18.0	0.07	0.06	0.04	0.02	0.01	0.04	0.55	1.39	2.31	0.60	0.26	0.19	5.54
	15.0-18.0	0.26	0.35	0.33	0.21	0.09	0.17	0.85	1.81	2.74	0.91	0.41	0.39	8.52
	12.0-15.0	0.72	0.95	0.91	0.82	0.47	0.54	1.37	2.38	3.74	1.65	0.88	0.83	15.25
	9.0-12.0	1.49	1.68	1.74	1.47	0.96	0.96	1.58	2.38	4.27	2.20	1.47	1.33	21.52
	6.0-9.0	1.97	2.06	1.88	1.78	1.30	1.24	1.45	2.10	3.41	2.35	1.81	1.67	23.00
	4.0-6.0	1.07	1.17	1.20	1.12	0.94	0.82	0.85	1.11	1.54	1.36	1.07	1.01	13.27
	2.0-4.0	0.76	0.87	0.86	0.75	0.65	0.62	0.62	0.77	0.96	0.95	0.82	0.79	9.41
	0.0-2.0	0.28	0.30	0.29	0.29	0.28	0.25	0.29	0.28	0.30	0.33	0.30	0.29	3.49
		6.63	7.44	7.25	6.45	4.69	4.63	7.56	12.22	19.27	10.34	7.02	6.49	100.00
All year														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		All Year			
Deltares											App. A.2.066			

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.12	0.01	0.17			0.06	1.58	3.26	5.73	1.20	0.59	0.37	13.11
	15.0-18.0	0.23	0.26	0.53	0.38	0.03	0.28	2.05	2.95	4.19	2.01	0.85	0.53	14.29
	12.0-15.0	0.37	0.28	1.21	1.03	0.54	0.50	2.34	3.72	3.31	2.18	1.12	0.62	17.22
	9.0-12.0	1.00	1.05	1.39	1.78	0.99	0.97	2.58	2.82	2.67	2.49	1.45	1.03	20.22
	6.0-9.0	0.99	1.06	1.51	2.21	1.27	1.14	1.81	1.44	1.74	1.72	1.48	1.14	17.49
	4.0-6.0	0.65	0.69	1.01	1.14	1.00	1.11	0.83	0.60	0.55	0.77	0.72	0.65	9.72
	2.0-4.0	0.29	0.56	0.74	0.64	0.69	0.56	0.44	0.39	0.38	0.41	0.47	0.38	5.96
	0.0-2.0	0.12	0.18	0.16	0.26	0.23	0.15	0.16	0.20	0.11	0.17	0.13	0.09	1.99
3.784.106.737.444.754.7611.8015.3918.7010.956.804.80100.00														
JanTotal														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Jan			
Deltares											App. A.2.067			

		Dir150 (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.17	0.14		0.08	0.09	0.01	0.62	2.70	4.58	1.52	0.73	0.67	11.29	
	15.0-18.0	0.44	0.35	0.45	0.18	0.16	0.19	1.18	3.08	3.77	1.56	0.56	0.67	12.60	
	12.0-15.0	0.84	1.11	1.07	0.63	0.40	0.57	1.65	2.85	3.48	2.49	1.66	1.20	17.94	
	9.0-12.0	1.04	1.60	1.37	1.35	0.66	0.87	2.03	2.45	2.97	2.15	1.96	1.65	20.09	
	6.0-9.0	1.45	1.19	1.16	1.80	1.34	1.10	1.49	1.48	2.03	1.92	1.53	1.34	17.82	
	4.0-6.0	0.58	0.82	0.98	0.93	1.15	0.89	0.86	0.69	0.95	1.11	0.88	0.79	10.64	
	2.0-4.0	0.49	0.64	0.75	0.56	0.57	0.64	0.55	0.48	0.68	0.64	0.56	0.61	7.17	
	0.0-2.0	0.21	0.22	0.13	0.19	0.26	0.21	0.19	0.13	0.22	0.25	0.20	0.26	2.45	
		5.22	6.07	5.91	5.71	4.63	4.49	8.55	13.85	18.68	11.63	8.07	7.19	100.00	
Feb														Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Feb				
Deltares											App. A.2.068				

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.09	0.04	0.07	0.06	0.00	0.00	0.48	1.46	3.38	0.86	0.21	0.15	6.82
	15.0-18.0	0.31	0.31	0.34	0.40	0.09	0.08	0.59	1.80	3.73	1.55	0.47	0.47	10.16
	12.0-15.0	0.87	0.87	0.98	1.04	0.71	0.66	1.09	2.54	3.65	2.51	1.02	1.34	17.28
	9.0-12.0	1.37	1.24	2.17	2.05	1.23	0.89	1.46	2.51	3.34	2.32	1.99	1.77	22.35
	6.0-9.0	1.58	1.96	2.31	1.90	1.42	1.09	1.33	2.14	2.83	2.14	2.09	1.75	22.52
	4.0-6.0	1.04	1.18	1.19	0.81	0.66	0.58	0.55	0.89	1.21	1.05	0.93	0.87	10.96
	2.0-4.0	0.52	0.81	0.80	0.61	0.47	0.44	0.40	0.50	0.71	0.62	0.60	0.55	7.03
	0.0-2.0	0.32	0.25	0.21	0.19	0.19	0.16	0.19	0.20	0.22	0.37	0.27	0.30	2.89

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.05	0.08	0.09			0.03	0.30	0.46	0.74	0.03	0.01	0.07	1.84
	15.0-18.0	0.39	0.85	0.51	0.23	0.19	0.18	0.59	1.46	2.35	0.50	0.22	0.15	7.62
	12.0-15.0	1.05	2.07	2.20	0.98	0.44	0.47	1.13	2.17	3.25	1.26	0.50	0.55	16.08
	9.0-12.0	2.36	2.73	2.73	1.51	0.91	1.09	1.40	2.33	3.69	1.56	1.07	1.28	22.66
	6.0-9.0	2.37	2.84	2.30	1.65	1.43	1.11	1.27	2.09	3.22	1.85	1.14	1.13	22.40
	4.0-6.0	1.32	1.28	1.42	1.19	0.86	0.88	0.94	1.42	1.78	1.30	1.08	0.79	14.27
	2.0-4.0	0.83	0.68	0.88	0.58	0.81	0.81	0.79	0.97	1.16	0.93	1.03	1.14	10.62
	0.0-2.0	0.39	0.37	0.34	0.33	0.33	0.34	0.42	0.32	0.39	0.36	0.47	0.45	4.51
	8.76	10.90	10.48	6.48	4.97	4.91	6.84	11.20	16.58	7.79	5.53	5.55	100.00	
Apr													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Apr			
Deltares											App. A.2.070			

Dir150 (° N)														
345-15 15-45 45-75 75-105 105-135 135-165 165-195 195-225 225-255 255-285 285-315 315-345														
U150 (m/s)	>18.0	0.11	0.05	0.02			0.01	0.05	0.53	0.81	0.06	0.03	0.01	1.70
	15.0-18.0	0.34	0.70	0.78	0.36	0.04	0.11	0.24	1.15	2.60	0.09	0.06	0.08	6.57
	12.0-15.0	1.51	2.11	1.74	1.32	0.30	0.30	0.72	1.93	3.90	0.57	0.14	0.61	15.17
	9.0-12.0	2.49	3.68	2.62	1.95	0.86	0.68	0.92	2.19	3.91	1.21	0.77	1.21	22.49
	6.0-9.0	3.10	4.25	2.62	1.83	1.17	0.87	0.87	1.46	3.20	2.05	1.30	1.56	24.28
	4.0-6.0	1.51	1.84	1.62	1.12	0.80	0.66	0.48	0.84	1.63	1.35	1.10	1.21	14.16
	2.0-4.0	1.20	1.33	1.11	0.84	0.59	0.51	0.66	0.78	0.97	1.12	0.82	1.06	10.98
	0.0-2.0	0.48	0.40	0.44	0.32	0.32	0.36	0.34	0.30	0.37	0.39	0.45	0.47	4.64
10.76 14.36 10.96 7.74 4.08 3.50 4.28 9.18 17.40 6.84 4.68 6.21 100.00														
May Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		May			
Deltares											App. A.2.071			

Dir150 (° N)														
U150 (m/s)	>18.0	0.01	0.09	0.01			0.01	0.02	0.63	0.71	0.01		0.01	1.48
	15.0-18.0	0.03	0.32	0.26	0.04	0.02	0.03	0.11	1.18	2.35	0.09	0.02	0.13	4.57
	12.0-15.0	0.34	1.41	0.81	0.34	0.28	0.24	0.33	1.78	5.27	0.60	0.29	0.36	12.06
	9.0-12.0	2.05	2.80	1.41	0.79	0.60	0.63	0.68	1.75	6.39	1.57	1.01	1.14	20.83
	6.0-9.0	3.08	3.89	1.75	0.92	0.81	1.10	1.22	2.11	4.60	2.21	1.83	2.55	26.06
	4.0-6.0	1.76	2.05	1.41	0.97	0.69	0.73	0.79	1.59	1.93	1.68	1.23	1.51	16.35
	2.0-4.0	1.37	1.46	1.03	0.97	0.66	0.66	1.00	1.15	1.31	1.41	1.23	1.22	13.47
	0.0-2.0	0.33	0.48	0.47	0.37	0.42	0.44	0.51	0.40	0.45	0.49	0.37	0.46	5.18
		8.97	12.51	7.16	4.39	3.47	3.83	4.66	10.60	23.00	8.06	5.98	7.39	100.00
Jun													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Jun			
Deltares											App. A.2.072			

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0		0.00	0.02				0.00	0.23	0.49	0.02	0.02	0.04	0.84
	15.0-18.0	0.02	0.13	0.12	0.07	0.01	0.01	0.08	0.90	2.22	0.20	0.09	0.08	3.95
	12.0-15.0	0.34	1.01	0.69	0.55	0.30	0.14	0.28	1.85	5.28	1.03	0.39	0.42	12.28
	9.0-12.0	1.10	1.92	1.47	1.08	0.70	0.26	0.52	2.56	7.72	2.27	1.15	0.91	21.66
	6.0-9.0	2.39	2.05	1.84	1.40	0.91	0.63	0.84	2.69	6.51	3.41	2.00	1.78	26.44
	4.0-6.0	1.46	1.48	1.24	0.96	0.77	0.76	0.58	1.50	2.51	2.32	1.26	1.23	16.07
	2.0-4.0	0.91	1.28	1.23	0.83	0.75	0.68	0.73	1.25	1.75	1.76	1.43	1.11	13.70
	0.0-2.0	0.42	0.43	0.41	0.43	0.35	0.22	0.41	0.49	0.48	0.52	0.47	0.42	5.06
	6.64	8.31	7.03	5.32	3.80	2.70	3.44	11.46	26.94	11.53	6.82	6.00	100.00	
Jul													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Jul			
Deltares											App. A.2.073			

Dir150 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U150 (m/s)	>18.0	0.05	0.01			0.00	0.06	0.30	0.47	0.01	0.08	0.16	1.16
	15.0-18.0	0.23	0.05	0.05	0.01	0.03	0.06	0.11	0.86	1.61	0.15	0.16	3.60
	12.0-15.0	0.45	0.22	0.35	0.33	0.29	0.28	0.38	1.36	3.93	1.25	0.59	9.99
	9.0-12.0	1.36	1.07	1.33	0.96	0.58	0.75	0.81	2.60	6.69	2.16	1.14	21.12
	6.0-9.0	2.31	2.12	1.74	1.57	1.09	1.24	1.02	2.53	6.18	2.96	2.19	27.36
	4.0-6.0	1.37	1.22	1.27	1.14	0.90	0.87	1.04	1.78	3.03	2.17	1.70	18.18
	2.0-4.0	1.19	1.26	0.95	0.92	0.67	0.71	0.81	1.15	1.78	1.64	1.32	13.69
	0.0-2.0	0.39	0.49	0.38	0.40	0.39	0.28	0.45	0.44	0.46	0.39	0.47	4.90
	7.36	6.44	6.08	5.34	3.96	4.20	4.68	11.03	24.13	10.74	7.65	8.39	100.00
Aug												Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Aug		
Deltares											App. A.2.074		

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.01	0.02		0.01		0.01	0.07	0.54	1.36	0.20	0.25	0.09	2.55
	15.0-18.0	0.21	0.38	0.05	0.10	0.07	0.10	0.25	1.16	1.95	0.66	0.58	0.64	6.15
	12.0-15.0	0.71	0.60	0.37	0.51	0.41	0.38	0.80	1.94	3.42	1.53	0.82	1.21	12.68
	9.0-12.0	2.02	1.16	1.64	1.53	0.98	1.08	1.47	1.97	4.89	2.19	1.47	1.44	21.82
	6.0-9.0	2.57	1.53	2.03	2.38	1.28	1.51	1.86	2.96	4.14	3.28	2.17	1.80	27.51
	4.0-6.0	1.23	1.21	1.45	1.20	1.00	0.79	1.15	1.23	2.13	1.83	1.00	0.92	15.15
	2.0-4.0	0.81	0.61	0.96	1.00	0.68	0.80	0.63	0.94	1.16	1.17	0.73	0.80	10.28
	0.0-2.0	0.28	0.27	0.30	0.37	0.33	0.24	0.33	0.32	0.39	0.37	0.37	0.30	3.86
	7.83	5.78	6.81	7.09	4.75	4.90	6.55	11.05	19.44	11.22	7.38	7.19	100.00	
Sep													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Sep			
Deltares											App. A.2.075			

Dir150 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U150 (m/s)	>18.0	0.07	0.12	0.01	0.00	0.00	0.10	0.70	2.10	2.43	0.94	0.17	0.07	6.72
	15.0-18.0	0.25	0.33	0.29	0.36	0.23	0.32	1.52	2.13	2.22	0.95	0.28	0.31	9.20
	12.0-15.0	0.42	0.57	0.33	1.39	1.08	1.20	2.85	3.13	3.40	1.94	0.94	0.77	18.03
	9.0-12.0	0.61	0.84	1.47	2.18	1.87	2.01	2.92	3.00	3.16	2.85	1.59	1.07	23.57
	6.0-9.0	1.41	1.24	1.52	1.99	1.79	2.14	2.20	2.23	2.33	2.18	1.88	1.24	22.13
	4.0-6.0	0.67	0.86	0.78	1.11	0.83	0.79	1.20	1.21	1.13	0.79	0.80	0.80	10.97
	2.0-4.0	0.54	0.82	0.71	0.63	0.56	0.55	0.62	0.74	0.64	0.55	0.56	0.51	7.43
	0.0-2.0	0.19	0.17	0.17	0.13	0.17	0.18	0.19	0.17	0.17	0.13	0.13	0.13	1.96
		4.17	4.95	5.30	7.79	6.54	7.29	12.20	14.70	15.48	10.32	6.35	4.90	100.00
Oct													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 150m		Oct		
Deltares												App. A.2.076		

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.12	0.03	0.07		0.06	0.08	1.13	1.72	2.78	0.80	0.43	0.33	7.54
	15.0-18.0	0.52	0.34	0.08	0.03	0.06	0.35	1.84	2.30	2.42	1.10	0.73	0.62	10.40
	12.0-15.0	1.19	0.68	0.27	0.39	0.42	1.34	2.93	2.76	2.74	2.05	1.63	1.24	17.63
	9.0-12.0	1.57	1.02	1.09	0.55	1.34	1.80	2.75	2.52	3.06	2.85	2.26	1.49	22.30
	6.0-9.0	1.31	1.00	1.50	1.56	1.63	1.86	2.25	2.20	2.27	2.49	2.23	1.85	22.15
	4.0-6.0	0.67	0.75	0.67	0.87	1.14	1.06	1.03	0.91	0.89	1.19	1.20	0.86	11.24
	2.0-4.0	0.45	0.42	0.44	0.49	0.72	0.73	0.45	0.57	0.63	0.60	0.64	0.49	6.63
	0.0-2.0	0.13	0.11	0.15	0.15	0.14	0.22	0.21	0.22	0.16	0.28	0.15	0.19	2.11
	5.97	4.36	4.26	4.03	5.49	7.44	12.60	13.19	14.95	11.36	9.26	7.07	100.00	
Nov													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Nov			
Deltares											App. A.2.077			

Dir150 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U150 (m/s)	>18.0	0.06	0.11	0.02	0.05	0.00	0.17	1.60	2.75	4.37	1.63	0.60	0.31	11.68
	15.0-18.0	0.20	0.21	0.45	0.32	0.17	0.31	1.67	2.85	3.55	2.01	0.85	0.73	13.34
	12.0-15.0	0.63	0.51	0.91	1.22	0.41	0.38	1.92	2.54	3.20	2.41	1.55	1.10	16.79
	9.0-12.0	0.89	1.05	2.12	1.87	0.73	0.51	1.43	1.90	2.68	2.69	1.85	1.32	19.03
	6.0-9.0	1.14	1.51	2.20	2.13	1.41	1.05	1.23	1.86	1.76	1.96	1.88	1.47	19.60
	4.0-6.0	0.56	0.65	1.39	1.94	1.45	0.78	0.79	0.60	0.72	0.80	0.93	0.77	11.38
	2.0-4.0	0.50	0.52	0.67	0.96	0.60	0.34	0.40	0.36	0.30	0.51	0.42	0.34	5.90
	0.0-2.0	0.12	0.24	0.34	0.29	0.23	0.17	0.14	0.16	0.17	0.19	0.14	0.08	2.28
4.10 4.80 8.09 8.78 5.01 3.72 9.18 13.02 16.75 12.21 8.22 6.12 100.00														
Dec														
Total														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 150m		Dec			
Deltares											App. A.2.078			

		Dir200 (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.09	0.08	0.06	0.02	0.02	0.05	0.65	1.69	2.89	0.71	0.29	0.21	6.75	
	15.0-18.0	0.29	0.37	0.35	0.26	0.13	0.21	0.88	1.84	2.80	1.02	0.44	0.40	8.98	
	12.0-15.0	0.73	0.89	0.91	0.82	0.49	0.55	1.33	2.31	3.60	1.73	0.93	0.84	15.14	
	9.0-12.0	1.46	1.58	1.65	1.43	0.95	0.86	1.44	2.21	4.08	2.22	1.48	1.33	20.72	
	6.0-9.0	1.91	1.94	1.81	1.71	1.26	1.16	1.37	2.01	3.23	2.40	1.80	1.66	22.26	
	4.0-6.0	1.05	1.16	1.16	1.11	0.91	0.84	0.82	1.10	1.54	1.38	1.09	1.02	13.18	
	2.0-4.0	0.75	0.87	0.84	0.75	0.67	0.61	0.63	0.80	0.96	0.95	0.85	0.78	9.47	
	0.0-2.0	0.28	0.29	0.27	0.30	0.26	0.26	0.27	0.29	0.31	0.33	0.31	0.31	3.49	
		6.56	7.18	7.06	6.41	4.70	4.53	7.38	12.26	19.40	10.75	7.20	6.57	100.00	
All year														Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		All Year				
Deltares											App. A.2.079				

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.14	0.02	0.19			0.08	1.77	3.97	6.74	1.49	0.66	0.40	15.47
	15.0-18.0	0.24	0.25	0.57	0.46	0.04	0.32	2.01	2.90	4.01	2.11	0.89	0.57	14.34
	12.0-15.0	0.38	0.30	1.20	0.97	0.57	0.49	2.28	3.67	3.11	2.16	1.15	0.63	16.92
	9.0-12.0	0.99	1.07	1.41	1.74	0.88	0.73	2.08	2.46	2.50	2.45	1.50	1.04	18.85
	6.0-9.0	0.99	1.06	1.46	2.23	1.23	1.01	1.60	1.43	1.68	1.70	1.42	1.13	16.94
	4.0-6.0	0.64	0.72	1.05	1.07	0.97	1.07	0.75	0.62	0.57	0.72	0.73	0.65	9.54
	2.0-4.0	0.29	0.59	0.72	0.62	0.67	0.55	0.44	0.42	0.34	0.41	0.50	0.35	5.90
	0.0-2.0	0.14	0.15	0.19	0.26	0.24	0.14	0.16	0.20	0.14	0.14	0.13	0.13	2.04
	3.81	4.16	6.79	7.34	4.60	4.39	11.11	15.66	19.09	11.18	6.97	4.89	100.00	
Jan													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Jan			
Deltares											App. A.2.080			

Dir200 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U200 (m/s)	>18.0	0.19	0.14		0.08	0.09	0.01	0.84	3.43	5.76	1.77	0.78	0.75	13.84
	15.0-18.0	0.51	0.40	0.50	0.19	0.18	0.23	1.06	2.86	3.58	1.84	0.66	0.72	12.72
	12.0-15.0	0.80	1.09	1.04	0.62	0.39	0.58	1.61	2.48	3.18	2.49	1.69	1.20	17.17
	9.0-12.0	1.06	1.62	1.36	1.39	0.57	0.71	1.75	2.24	2.77	2.07	1.89	1.73	19.17
	6.0-9.0	1.45	1.15	1.18	1.68	1.33	0.92	1.28	1.38	1.96	1.86	1.62	1.34	17.14
	4.0-6.0	0.60	0.80	0.93	0.91	1.03	0.91	0.76	0.72	0.93	1.09	0.84	0.81	10.32
	2.0-4.0	0.43	0.69	0.73	0.55	0.54	0.64	0.60	0.54	0.67	0.63	0.59	0.64	7.25
	0.0-2.0	0.20	0.21	0.14	0.18	0.19	0.25	0.18	0.14	0.21	0.20	0.19	0.31	2.39
		5.25	6.09	5.87	5.60	4.32	4.24	8.08	13.79	19.05	11.95	8.26	7.50	100.00
Feb														Total
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Feb			
Deltares											App. A.2.081			

Dir200 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U200 (m/s)	>18.0	0.11	0.06	0.11	0.06	0.01	0.01	0.58	1.69	4.64	1.17	0.24	0.18	8.88											
	15.0-18.0	0.31	0.31	0.33	0.46	0.14	0.21	0.54	1.77	3.46	1.98	0.55	0.49	10.56											
	12.0-15.0	0.93	0.85	1.01	1.09	0.70	0.60	1.06	2.32	3.09	2.57	1.22	1.49	16.94											
	9.0-12.0	1.38	1.24	1.98	1.90	1.31	0.82	1.20	2.33	3.13	2.09	2.06	1.81	21.26											
	6.0-9.0	1.53	1.86	2.20	1.68	1.36	1.06	1.26	1.95	2.69	2.23	1.90	1.78	21.50											
	4.0-6.0	1.05	1.13	1.14	0.87	0.62	0.66	0.54	0.83	1.24	1.04	0.88	0.87	10.86											
	2.0-4.0	0.52	0.79	0.83	0.65	0.53	0.42	0.38	0.51	0.67	0.69	0.60	0.54	7.12											
	0.0-2.0	0.34	0.26	0.19	0.21	0.17	0.14	0.21	0.17	0.20	0.41	0.25	0.32	2.88											
													6.18	6.49	7.79	6.92	4.85	3.92	5.77	11.59	19.13	12.17	7.71	7.49	100.00
Mar													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Mar														
Deltares											App. A.2.082														

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.08	0.12	0.17	0.03	0.03	0.05	0.42	0.75	1.32	0.07	0.03	0.07	3.14
	15.0-18.0	0.42	0.87	0.57	0.33	0.19	0.22	0.62	1.53	2.35	0.64	0.31	0.16	8.22
	12.0-15.0	1.05	1.82	2.39	1.06	0.46	0.49	1.06	2.21	3.04	1.19	0.59	0.59	15.95
	9.0-12.0	2.38	2.27	2.49	1.54	0.92	0.98	1.38	1.98	3.47	1.64	1.10	1.29	21.43
	6.0-9.0	2.18	2.70	2.08	1.62	1.36	1.18	1.24	1.95	3.06	1.99	1.15	1.13	21.64
	4.0-6.0	1.23	1.33	1.37	1.32	0.86	0.89	0.87	1.39	1.83	1.32	1.12	0.78	14.31
	2.0-4.0	0.80	0.70	0.85	0.67	0.82	0.83	0.78	1.02	1.18	0.98	1.04	1.16	10.86
	0.0-2.0	0.34	0.38	0.28	0.37	0.30	0.33	0.37	0.43	0.34	0.40	0.46	0.46	4.45
	8.47	10.19	10.21	6.94	4.94	4.98	6.75	11.26	16.59	8.23	5.80	5.64	100.00	
Apr													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Apr			
Deltares											App. A.2.083			

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.13	0.10	0.08	0.01	0.01	0.01	0.09	0.72	1.20	0.10	0.03	0.02	2.53
	15.0-18.0	0.42	0.73	0.77	0.54	0.12	0.09	0.37	1.18	2.90	0.18	0.06	0.07	7.44
	12.0-15.0	1.52	1.83	1.53	1.34	0.37	0.31	0.63	1.86	3.88	0.76	0.20	0.60	14.84
	9.0-12.0	2.39	3.41	2.41	1.94	0.98	0.70	0.81	1.95	3.59	1.23	0.83	1.15	21.39
	6.0-9.0	2.95	3.95	2.70	1.79	1.24	0.92	0.82	1.29	2.83	2.31	1.26	1.58	23.66
	4.0-6.0	1.56	1.84	1.39	1.22	0.83	0.71	0.52	0.82	1.62	1.37	1.14	1.26	14.27
	2.0-4.0	1.14	1.35	1.17	0.86	0.66	0.57	0.60	0.79	1.03	1.11	0.81	1.08	11.17
	0.0-2.0	0.45	0.38	0.37	0.39	0.31	0.32	0.33	0.34	0.40	0.45	0.51	0.44	4.71
	10.57	13.59	10.42	8.09	4.53	3.64	4.18	8.96	17.44	7.53	4.85	6.20	100.00	
May													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		May			
Deltares											App. A.2.084			

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.01	0.09	0.06			0.01	0.03	0.80	1.06	0.01		0.02	2.08
	15.0-18.0	0.04	0.35	0.34	0.04	0.06	0.02	0.13	1.12	2.88	0.14	0.02	0.15	5.29
	12.0-15.0	0.39	1.36	0.76	0.39	0.30	0.24	0.35	1.75	5.05	0.93	0.33	0.38	12.21
	9.0-12.0	1.86	2.54	1.30	0.81	0.64	0.66	0.70	1.49	6.01	1.77	1.06	1.15	19.99
	6.0-9.0	2.95	3.53	1.76	0.97	0.77	1.01	1.20	2.03	4.17	2.32	1.86	2.55	25.11
	4.0-6.0	1.69	2.09	1.44	0.96	0.74	0.69	0.84	1.62	2.02	1.75	1.26	1.52	16.62
	2.0-4.0	1.31	1.46	1.07	0.94	0.70	0.62	0.96	1.23	1.33	1.42	1.36	1.19	13.58
	0.0-2.0	0.46	0.39	0.38	0.37	0.41	0.43	0.43	0.45	0.42	0.49	0.41	0.49	5.11
	8.68	11.81	7.11	4.48	3.61	3.67	4.66	10.49	22.93	8.83	6.30	7.44	100.00	
Jun													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Jun			
Deltares											App. A.2.085			

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0		0.01	0.02					0.34	0.70	0.03	0.03	0.04	1.18
	15.0-18.0	0.02	0.18	0.12	0.16	0.07	0.01	0.12	1.02	2.61	0.24	0.12	0.09	4.79
	12.0-15.0	0.29	0.86	0.80	0.49	0.38	0.12	0.28	1.78	5.39	1.26	0.41	0.42	12.48
	9.0-12.0	1.09	1.85	1.31	1.00	0.75	0.27	0.52	2.45	7.18	2.42	1.23	0.93	21.00
	6.0-9.0	2.23	1.80	1.65	1.38	0.98	0.72	0.82	2.39	6.12	3.63	2.02	1.71	25.44
	4.0-6.0	1.36	1.44	1.23	0.94	0.77	0.84	0.58	1.41	2.45	2.44	1.31	1.29	16.06
	2.0-4.0	0.99	1.27	1.14	0.75	0.81	0.65	0.79	1.29	1.76	1.82	1.52	1.03	13.82
	0.0-2.0	0.39	0.44	0.43	0.48	0.37	0.27	0.39	0.42	0.51	0.57	0.47	0.48	5.22
	6.37	7.85	6.73	5.20	4.13	2.88	3.50	11.11	26.73	12.42	7.11	5.99	100.00	
Jul													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Jul			
Deltares											App. A.2.086			

Dir200 (° N)													
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U200 (m/s)	>18.0	0.08	0.02			0.00	0.06	0.38	0.64	0.01	0.09	0.17	1.46
	15.0-18.0	0.26	0.05	0.06	0.05	0.06	0.16	0.89	1.81	0.18	0.19	0.26	4.04
	12.0-15.0	0.45	0.23	0.29	0.41	0.34	0.24	0.41	1.32	4.06	1.44	0.60	10.36
	9.0-12.0	1.36	0.97	1.29	0.99	0.61	0.73	0.83	2.53	6.69	2.32	1.13	21.12
	6.0-9.0	2.23	1.91	1.51	1.45	1.14	1.08	1.14	2.31	5.90	2.96	2.22	26.27
	4.0-6.0	1.33	1.20	1.16	1.10	0.94	0.93	1.09	1.74	3.02	2.22	1.73	18.18
	2.0-4.0	1.20	1.23	0.91	0.89	0.73	0.72	0.81	1.16	1.81	1.52	1.45	13.68
	0.0-2.0	0.41	0.49	0.40	0.39	0.34	0.31	0.41	0.45	0.49	0.37	0.50	4.89
	7.33	6.10	5.63	5.28	4.15	4.07	4.92	10.80	24.42	11.04	7.91	8.36	100.00
Aug												Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Aug		
Deltares											App. A.2.087		

Dir200 (° N)																									
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345													
U200 (m/s)	>18.0	0.02	0.03		0.01	0.01	0.01	0.09	0.61	1.55	0.22	0.28	0.14	2.94											
	15.0-18.0	0.23	0.40	0.06	0.11	0.13	0.11	0.30	1.28	2.04	0.73	0.59	0.62	6.60											
	12.0-15.0	0.72	0.60	0.42	0.52	0.42	0.44	0.91	1.95	3.47	1.55	0.81	1.23	13.03											
	9.0-12.0	2.01	1.14	1.54	1.45	1.16	0.94	1.48	2.05	4.87	2.22	1.46	1.39	21.70											
	6.0-9.0	2.55	1.50	1.99	2.16	1.22	1.42	1.84	2.84	3.98	3.33	2.19	1.76	26.80											
	4.0-6.0	1.22	1.18	1.39	1.12	0.94	0.81	1.12	1.24	2.04	1.84	1.06	0.95	14.90											
	2.0-4.0	0.81	0.59	0.88	0.99	0.70	0.77	0.67	0.97	1.12	1.18	0.74	0.79	10.21											
	0.0-2.0	0.25	0.24	0.29	0.37	0.29	0.32	0.25	0.38	0.37	0.39	0.38	0.30	3.82											
													7.81	5.66	6.58	6.73	4.87	4.81	6.64	11.32	19.43	11.45	7.51	7.19	100.00
Sep													Total												
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Sep														
Deltares											App. A.2.088														

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.08	0.14	0.03		0.00	0.13	0.82	2.38	2.74	1.01	0.18	0.08	7.62
	15.0-18.0	0.26	0.34	0.28	0.39	0.31	0.38	1.78	2.33	2.21	1.01	0.27	0.31	9.86
	12.0-15.0	0.40	0.56	0.34	1.33	1.18	1.41	2.87	3.32	3.39	1.95	0.99	0.82	18.55
	9.0-12.0	0.62	0.85	1.49	2.02	1.62	1.62	2.77	2.78	3.11	2.84	1.54	1.06	22.31
	6.0-9.0	1.37	1.22	1.45	1.92	1.74	1.99	2.08	2.19	2.38	2.14	1.89	1.23	21.61
	4.0-6.0	0.67	0.85	0.76	1.01	0.78	0.78	1.06	1.29	1.14	0.79	0.83	0.77	10.71
	2.0-4.0	0.53	0.82	0.65	0.69	0.56	0.51	0.64	0.71	0.66	0.57	0.57	0.53	7.43
	0.0-2.0	0.16	0.18	0.16	0.13	0.17	0.19	0.18	0.15	0.19	0.11	0.13	0.14	1.91
	4.09	4.96	5.16	7.48	6.37	7.02	12.21	15.14	15.81	10.42	6.39	4.94	100.00	
Oct													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Oct			
Deltares											App. A.2.089			

Dir200 (° N)														
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
U200 (m/s)	>18.0	0.13	0.04	0.07		0.06	0.10	1.34	2.02	3.18	0.92	0.49	0.38	8.72
	15.0-18.0	0.54	0.36	0.09	0.03	0.08	0.48	1.77	2.37	2.35	1.10	0.73	0.61	10.49
	12.0-15.0	1.22	0.70	0.25	0.37	0.37	1.35	2.83	2.74	2.70	2.11	1.64	1.21	17.51
	9.0-12.0	1.55	1.00	1.10	0.55	1.22	1.75	2.58	2.51	3.02	2.85	2.25	1.52	21.91
	6.0-9.0	1.30	1.03	1.48	1.52	1.43	1.71	2.13	2.31	2.20	2.39	2.23	1.86	21.58
	4.0-6.0	0.66	0.72	0.68	0.88	1.05	1.03	0.98	0.93	0.90	1.19	1.21	0.84	11.07
	2.0-4.0	0.46	0.42	0.44	0.44	0.75	0.67	0.48	0.56	0.64	0.60	0.60	0.53	6.59
	0.0-2.0	0.10	0.10	0.14	0.17	0.14	0.20	0.21	0.23	0.20	0.28	0.14	0.21	2.12
	5.97	4.37	4.25	3.96	5.10	7.29	12.32	13.66	15.18	11.44	9.28	7.17	100.00	
Nov													Total	
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North									Height: 200m		Nov			
Deltares											App. A.2.090			

Dir200 (° N)														
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
U200 (m/s)	>18.0	0.06	0.13	0.02	0.05	0.00	0.18	1.71	3.28	5.23	1.79	0.66	0.35	13.47
	15.0-18.0	0.22	0.21	0.48	0.35	0.21	0.35	1.67	2.85	3.40	2.13	0.91	0.80	13.58
	12.0-15.0	0.67	0.53	0.88	1.21	0.38	0.29	1.65	2.35	2.85	2.35	1.63	1.04	15.82
	9.0-12.0	0.88	1.06	2.14	1.81	0.74	0.45	1.26	1.79	2.57	2.67	1.79	1.32	18.48
	6.0-9.0	1.14	1.49	2.20	2.13	1.31	0.96	1.00	2.02	1.71	1.96	1.83	1.48	19.22
	4.0-6.0	0.54	0.66	1.40	1.87	1.42	0.75	0.75	0.61	0.65	0.79	0.96	0.79	11.18
	2.0-4.0	0.53	0.53	0.69	0.98	0.60	0.35	0.37	0.37	0.29	0.50	0.45	0.31	5.99
	0.0-2.0	0.12	0.28	0.31	0.29	0.20	0.16	0.14	0.13	0.20	0.19	0.16	0.08	2.27
		4.17	4.89	8.12	8.70	4.87	3.50	8.54	13.39	16.90	12.38	8.38	6.16	100.00
Dec														
Joint Occurrence table of hourly wind speed vs. wind direction Nautical convention: coming from, clockwise from North										Height: 200m		Dec		
Deltares												App. A.2.091		

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.23	0.14	0.02	0.01	0.01	0.00	0.01	0.02	0.08	0.19	0.59	3.91	6.20
	285-315	0.42	0.10	0.03	0.01	0.01	0.01	0.01	0.04	0.17	0.72	2.66	2.61	6.79
	255-285	0.37	0.09	0.03	0.02	0.01	0.01	0.02	0.12	1.05	3.71	2.53	1.36	9.34
	225-255	0.41	0.11	0.06	0.02	0.02	0.02	0.06	0.86	10.08	3.60	1.61	1.20	18.07
	195-225	0.39	0.09	0.07	0.05	0.06	0.07	0.41	5.23	3.79	0.87	0.64	0.86	12.51
	165-195	0.38	0.10	0.12	0.08	0.15	0.40	2.75	2.36	0.61	0.34	0.32	0.46	8.06
	135-165	0.50	0.18	0.20	0.19	0.46	1.26	0.91	0.34	0.20	0.16	0.18	0.32	4.89
	105-135	0.61	0.34	0.42	0.88	1.27	0.38	0.14	0.12	0.12	0.10	0.09	0.27	4.75
	75-105	0.89	0.90	1.68	2.06	0.21	0.07	0.05	0.05	0.11	0.08	0.11	0.32	6.53
	45-75	1.53	2.53	2.93	0.22	0.03	0.02	0.01	0.02	0.06	0.07	0.10	0.35	7.85
	15-45	3.22	3.86	0.36	0.01	0.01	0.01	0.01	0.01	0.05	0.06	0.11	0.47	8.18
	345-15	4.60	0.51	0.04	0.00	0.00	0.01	0.01	0.02	0.05	0.09	0.14	1.35	6.82
		14.56	8.95	5.95	3.55	2.25	2.26	4.38	9.17	16.37	10.00	9.07	13.48	100.00
All year														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

All Year

Deltares

App. B.1.001

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.28	0.66	0.13	0.02	0.04	0.04	0.04	0.06	0.29	0.41	0.48	2.21	6.66	
	285-315	1.64	0.53	0.15	0.04	0.06	0.04	0.04	0.13	0.34	0.48	0.90	2.62	6.97	
	255-285	1.89	0.54	0.19	0.09	0.05	0.05	0.13	0.24	0.51	0.92	1.21	2.66	8.49	
	225-255	1.87	0.47	0.32	0.13	0.09	0.09	0.09	0.41	0.79	0.96	1.61	2.74	9.58	
	195-225	1.88	0.40	0.27	0.22	0.17	0.15	0.21	0.46	1.30	0.81	1.09	2.41	9.36	
	165-195	1.75	0.33	0.53	0.23	0.24	0.31	0.23	0.44	0.92	0.84	0.90	1.71	8.42	
	135-165	1.78	0.49	0.57	0.38	0.23	0.44	0.32	0.33	0.59	0.51	0.61	1.48	7.73	
	105-135	2.33	0.64	0.65	0.28	0.22	0.30	0.19	0.29	0.59	0.44	0.34	1.45	7.74	
	75-105	3.21	1.16	0.86	0.23	0.18	0.11	0.09	0.18	0.54	0.43	0.53	1.63	9.15	
	45-75	3.52	1.45	0.98	0.18	0.12	0.09	0.02	0.08	0.33	0.37	0.47	1.59	9.21	
	15-45	3.72	1.51	0.55	0.05	0.04	0.06	0.05	0.05	0.20	0.31	0.50	1.79	8.83	
	345-15	3.36	1.09	0.19	0.01	0.03	0.04	0.05	0.09	0.24	0.35	0.50	1.90	7.85	
		29.23	9.28	5.40	1.85	1.47	1.71	1.48	2.76	6.64	6.84	9.15	24.20	100.00	
1 m/s <=U ₁₀ <3 m/s														Total	
Joint Occurrence table of wind direction vs. wave direction Nautical convention: coming from, clockwise from North										Height: 10m					
										1 m/s <=U ₁₀ <3 m/s					
Deltares												App. B.1.002			

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.79	0.27	0.04	0.01	0.01	0.01	0.00	0.01	0.14	0.31	0.73	2.80	6.14
	285-315	0.98	0.19	0.06	0.02	0.02	0.01	0.00	0.06	0.24	0.65	1.52	3.08	6.83
	255-285	0.74	0.18	0.07	0.05	0.03	0.02	0.02	0.17	0.64	1.38	2.08	2.90	8.28
	225-255	0.88	0.26	0.08	0.03	0.06	0.05	0.13	0.57	2.06	1.92	2.38	2.92	11.34
	195-225	0.90	0.18	0.14	0.09	0.14	0.13	0.37	1.05	1.90	1.17	1.34	2.16	9.58
	165-195	0.81	0.23	0.23	0.21	0.37	0.56	0.73	1.18	0.76	0.49	0.54	0.96	7.07
	135-165	1.22	0.32	0.43	0.46	0.61	0.88	0.67	0.53	0.35	0.35	0.41	0.56	6.78
	105-135	1.52	0.81	1.02	1.17	0.87	0.57	0.34	0.31	0.23	0.24	0.22	0.47	7.76
	75-105	2.09	1.90	1.79	0.97	0.34	0.20	0.14	0.13	0.23	0.14	0.23	0.66	8.83
	45-75	3.79	2.97	1.59	0.39	0.09	0.06	0.02	0.02	0.08	0.10	0.24	0.80	10.16
	15-45	4.57	2.84	0.61	0.02	0.02	0.02	0.01	0.02	0.11	0.10	0.21	1.22	9.75
	345-15	3.90	1.07	0.09	0.01	0.01	0.01	0.02	0.01	0.05	0.20	0.22	1.89	7.49
		23.19	11.21	6.16	3.43	2.57	2.50	2.45	4.07	6.80	7.05	10.13	20.43	100.00
		3 m/s <=U ₁₀ <5 m/s												Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

3 m/s <=U₁₀<5 m/s

Deltares

App. B.1.003

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.55	0.11	0.00	0.01	0.00		0.01	0.02	0.05	0.23	0.75	3.79	6.53
	285-315	0.32	0.02	0.01	0.00	0.00	0.01	0.00	0.05	0.20	0.76	2.41	3.15	6.93
	255-285	0.14	0.02	0.00	0.02	0.01	0.01	0.02	0.11	0.81	2.08	3.10	2.07	8.38
	225-255	0.24	0.07	0.02	0.00	0.01	0.01	0.09	0.63	4.30	3.73	2.76	1.62	13.48
	195-225	0.18	0.06	0.04	0.03	0.09	0.13	0.65	2.39	2.96	1.39	1.01	1.08	10.02
	165-195	0.20	0.09	0.10	0.09	0.21	0.73	1.68	1.81	0.77	0.44	0.39	0.34	6.85
	135-165	0.43	0.25	0.23	0.26	0.78	1.42	1.07	0.64	0.27	0.17	0.15	0.26	5.92
	105-135	0.47	0.58	0.64	1.60	1.77	0.51	0.21	0.13	0.07	0.05	0.07	0.12	6.21
	75-105	0.88	1.67	2.85	2.38	0.37	0.11	0.06	0.03	0.05	0.03	0.03	0.19	8.65
	45-75	2.10	3.64	2.99	0.35	0.03	0.01			0.02	0.02	0.05	0.17	9.39
	15-45	4.98	3.64	0.50	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.06	0.29	9.55
	345-15	5.49	0.61	0.01	0.00	0.00			0.01	0.03	0.07	0.13	1.74	8.09
		16.99	10.76	7.39	4.74	3.29	2.94	3.80	5.84	9.53	9.01	10.90	14.83	100.00
5 m/s <=U ₁₀ <7 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

5 m/s <=U₁₀<7 m/s

Deltares

App. B.1.004

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.12	0.03		0.00					0.03	0.15	0.65	4.18	6.17
	285-315	0.08	0.01	0.00		0.00		0.00	0.02	0.17	0.75	3.03	2.96	7.03
	255-285	0.07	0.01	0.00				0.01	0.12	1.31	3.55	3.49	0.89	9.45
	225-255	0.04	0.03	0.00	0.01	0.00	0.00	0.05	0.76	8.78	5.47	1.92	0.60	17.66
	195-225	0.02	0.02	0.03	0.01	0.03	0.02	0.48	4.12	3.81	1.12	0.49	0.22	10.36
	165-195	0.07	0.04	0.03	0.02	0.11	0.48	2.86	2.31	0.70	0.30	0.23	0.22	7.37
	135-165	0.10	0.10	0.10	0.13	0.63	1.72	1.22	0.32	0.11	0.09	0.05	0.08	4.66
	105-135	0.08	0.15	0.29	1.14	2.09	0.39	0.09	0.06	0.03	0.01	0.01	0.04	4.37
	75-105	0.17	0.76	2.16	2.95	0.22	0.02	0.00	0.01	0.02		0.01	0.03	6.34
	45-75	0.65	3.51	4.65	0.26	0.01			0.01		0.00	0.01	0.03	9.12
	15-45	3.72	5.43	0.27	0.01					0.01	0.01	0.02	0.11	9.57
	345-15	6.25	0.36	0.00			0.00		0.01	0.01	0.02	0.08	1.18	7.90
		12.36	10.43	7.53	4.53	3.09	2.64	4.71	7.72	14.99	11.46	9.99	10.54	100.00
7 m/s <=U ₁₀ <9 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

7 m/s <=U₁₀<9 m/s

Deltares

App. B.1.005

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.84	0.00						0.00	0.04	0.10	0.52	4.71	6.22
	285-315	0.02							0.01	0.10	0.77	3.52	2.48	6.91
	255-285			0.00				0.00	0.07	1.30	5.30	2.89	0.33	9.90
	225-255	0.00	0.02	0.01			0.01	0.03	1.18	14.40	5.18	0.99	0.10	21.92
	195-225	0.00	0.01			0.00	0.02	0.48	6.97	5.03	0.58	0.10	0.03	13.23
	165-195	0.01		0.01	0.02	0.03	0.23	4.18	2.95	0.47	0.18	0.10	0.03	8.21
	135-165	0.02	0.02	0.03	0.03	0.44	1.70	1.26	0.23	0.03	0.03	0.01	0.02	3.83
	105-135	0.00	0.03	0.09	0.69	1.72	0.38	0.05	0.01		0.00		0.01	2.99
	75-105	0.00	0.16	1.72	2.91	0.11		0.01						4.91
	45-75	0.13	2.58	4.60	0.11	0.01	0.00					0.00	0.01	7.44
	15-45	2.26	5.22	0.21								0.00	0.04	7.73
	345-15	5.31	0.14							0.01	0.03	0.07	1.16	6.72
		8.60	8.19	6.67	3.77	2.31	2.33	6.01	11.42	21.39	12.18	8.20	8.92	100.00
		9 m/s <=U ₁₀ <11 m/s												Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

9 m/s <=U₁₀<11 m/s

Deltares

App. B.1.006

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.38									0.07	0.40	5.19	6.04
	285-315	0.01							0.01	0.08	0.92	3.62	1.98	6.61
	255-285								0.09	1.53	6.68	2.26	0.02	10.58
	225-255	0.01	0.01					0.02	1.34	19.02	4.50	0.35	0.02	25.26
	195-225							0.32	11.30	5.97	0.33	0.04	0.01	17.98
	165-195				0.01	0.01	0.12	5.46	3.88	0.29	0.04	0.03		9.83
	135-165		0.01	0.02	0.01	0.10	1.65	0.86	0.07	0.01		0.01		2.72
	105-135		0.01	0.01	0.41	1.05	0.19	0.03	0.01					1.70
	75-105			0.83	3.07	0.07	0.01							3.98
	45-75	0.05	1.48	2.92	0.05									4.50
	15-45	0.91	5.16	0.15						0.01	0.01		0.01	6.24
	345-15	3.79	0.14							0.01		0.02	0.61	4.56
		5.14	6.80	3.94	3.55	1.23	1.96	6.69	16.70	26.90	12.54	6.72	7.83	100.00
11 m/s <=U ₁₀ <13 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

11 m/s $\leq U_{10} < 13$ m/s

Deltares

App. B.1.007

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.32									0.04	0.31	4.96	5.62
	285-315									0.05	0.60	3.39	1.46	5.51
	255-285								0.05	1.23	7.83	1.72	0.01	10.82
	225-255								1.36	25.44	3.25	0.05		30.10
	195-225							0.17	14.12	6.19	0.09	0.01	0.01	20.59
	165-195						0.05	5.50	4.58	0.28	0.03			10.44
	135-165					0.01	0.79	0.71	0.03					1.53
	105-135				0.13	0.46	0.21							0.79
	75-105			0.59	2.02	0.08								2.69
	45-75		0.73	2.77	0.04									3.54
	15-45	0.60	3.60	0.11									0.02	4.32
	345-15	3.31	0.05								0.02	0.01	0.65	4.04
		4.23	4.38	3.47	2.18	0.55	1.05	6.38	20.13	33.19	11.85	5.48	7.10	100.00
13 m/s <=U ₁₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

13 m/s $\leq U_{10} < 15$ m/s

Deltares

App. B.1.008

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.23									0.02	0.45	5.04	5.74	
	285-315									0.02	0.79	4.32	1.00	6.14	
	255-285								0.04	1.70	8.91	2.12	0.02	12.79	
	225-255								1.72	31.78	1.70	0.02		35.22	
	195-225							0.09	15.22	6.99	0.02			22.32	
	165-195							5.68	4.82	0.04				10.54	
	135-165						0.62	0.81	0.02					1.45	
	105-135				0.17	0.13	0.21							0.51	
	75-105				0.60									0.60	
	45-75	0.02	0.06	0.60										0.68	
	15-45	0.26	1.44	0.09										1.79	
	345-15	1.53	0.09									0.02	0.57	2.21	
		2.04	1.59	0.70	0.77	0.13	0.83	6.59	21.81	40.53	11.44	6.93	6.63	100.00	
		15 m/s <=U ₁₀ <17 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

15 m/s ≤ U₁₀ < 17 m/s

Deltares

App. B.1.009

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.20										0.20	3.61	4.00
	285-315							0.05	0.05	0.68	4.83	1.27	6.88	
	255-285								1.51	6.98	1.22		9.71	
	225-255							1.61	37.09	0.78			39.48	
	195-225						0.05	16.35	8.88				25.28	
	165-195						5.42	5.66					11.08	
	135-165					0.29	0.29	0.05					0.63	
	105-135				0.15								0.15	
	75-105				0.34								0.34	
	45-75													
	15-45		0.73										0.73	
	345-15	1.02											0.68	1.71
		1.22	0.73		0.49		0.29	5.76	23.72	47.54	8.44	6.25	5.56	100.00
17 m/s $\leq U_{10}$ < 19 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

17 m/s $\leq U_{10}$ < 19 m/s

Deltares

App. B.1.010

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345												0.56	3.16	3.72
285-315											1.12	5.58	1.12	7.81
255-285										1.12	7.62	2.04		10.78
225-255								0.93	40.89	0.56				42.38
195-225								17.47	8.18					25.65
165-195							2.79	5.58						8.36
135-165							0.19							0.19
105-135														
75-105														
45-75														
15-45		0.19												0.19
345-15	0.37												0.56	0.93
		0.37	0.19					2.97	23.98	50.19	9.29	8.18	4.83	100.00
19 m/s $\leq U_{10} < 21$ m/s		Total												

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

19 m/s $\leq U_{10} < 21$ m/s

Deltares

App. B.1.011

		MWD (° N)																		
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345							
Wind direction (° N)	315-345												1.27	1.27						
	285-315										1.91	3.18	0.64	5.73						
	255-285									2.55	11.46			14.01						
	225-255								1.27	36.94	0.64			38.85						
	195-225								19.75	9.55				29.30						
	165-195							3.18	7.64					10.83						
	135-165																			
	105-135																			
	75-105																			
	45-75																			
	15-45																			
	345-15																			
														3.18	28.66	49.04	14.01	3.18	1.91	100.00
21 m/s <=U ₁₀ <23 m/s														Total						

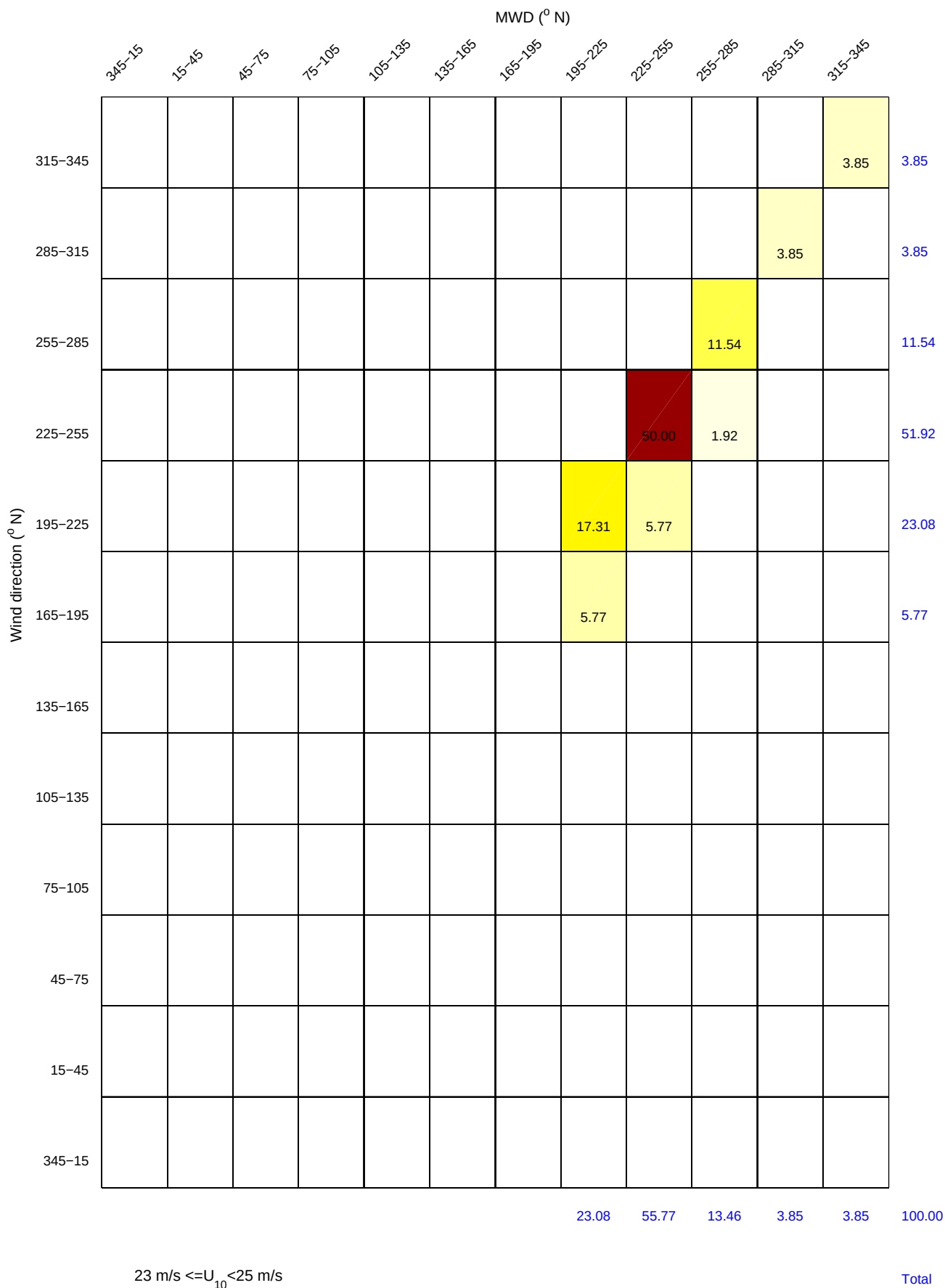
Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

21 m/s $\leq U_{10} < 23$ m/s

Deltares

App. B.1.012



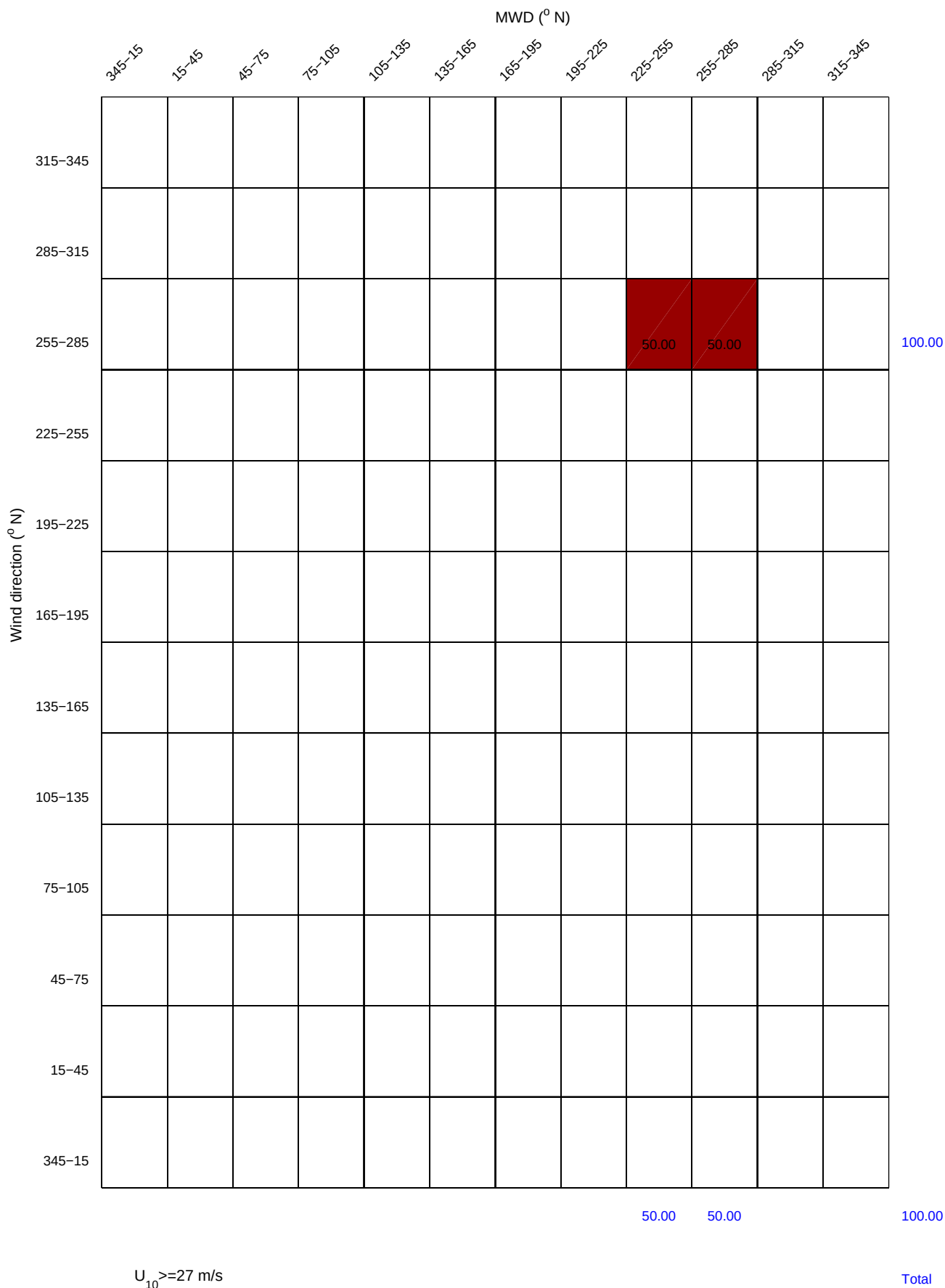
Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

23 m/s $\leq U_{10} < 25$ m/s

Deltares

App. B.1.013



Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 10m

$U_{10} \geq 27$ m/s

Deltares

App. B.1.015

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.94	0.10	0.01	0.00	0.01	0.00	0.01	0.02	0.07	0.17	0.57	3.46	5.37
	285-315	0.37	0.11	0.03	0.01	0.02	0.01	0.01	0.04	0.20	0.72	2.61	2.46	6.58
	255-285	0.39	0.10	0.04	0.02	0.01	0.02	0.03	0.15	1.07	3.48	2.38	1.38	9.07
	225-255	0.54	0.15	0.08	0.04	0.04	0.05	0.12	1.23	10.67	4.03	1.93	1.50	20.39
	195-225	0.61	0.16	0.13	0.09	0.12	0.19	0.79	5.58	3.40	0.82	0.61	1.01	13.50
	165-195	1.81	0.29	0.17	0.13	0.22	0.43	2.52	1.77	0.55	0.36	0.37	1.14	9.75
	135-165	0.58	0.28	0.24	0.24	0.59	1.24	0.77	0.29	0.20	0.17	0.18	0.40	5.19
	105-135	0.62	0.36	0.47	0.99	1.09	0.24	0.10	0.05	0.09	0.08	0.08	0.28	4.45
	75-105	0.95	0.93	1.67	1.85	0.12	0.05	0.02	0.02	0.05	0.05	0.10	0.29	6.10
	45-75	1.79	2.78	2.83	0.16	0.03	0.01	0.01	0.01	0.03	0.04	0.10	0.39	8.16
	15-45	3.45	3.47	0.26	0.01	0.01	0.01	0.00	0.01	0.03	0.04	0.07	0.48	7.84
	345-15	2.52	0.22	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.07	0.68	3.60
		14.56	8.95	5.95	3.55	2.25	2.26	4.38	9.17	16.37	10.00	9.07	13.48	100.00
All year														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

All Year

Deltares

App. B.1.016

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.16	0.53	0.05	0.01	0.02	0.03	0.03	0.07	0.26	0.29	0.35	1.19	3.98
	285-315	1.28	0.58	0.17	0.04	0.08	0.01	0.03	0.19	0.43	0.56	0.74	1.83	5.93
	255-285	1.97	0.52	0.23	0.05	0.04	0.09	0.13	0.31	0.69	0.95	1.25	2.56	8.80
	225-255	2.62	0.68	0.33	0.19	0.14	0.18	0.06	0.38	1.22	1.10	1.56	3.48	11.94
	195-225	3.28	0.69	0.52	0.24	0.23	0.24	0.23	0.34	0.99	0.75	1.20	3.42	12.13
	165-195	4.23	1.21	0.59	0.30	0.26	0.15	0.21	0.38	0.84	0.94	1.40	3.08	13.58
	135-165	2.46	0.85	0.65	0.27	0.17	0.31	0.16	0.23	0.64	0.64	0.86	1.95	9.19
	105-135	2.70	0.62	0.59	0.18	0.08	0.12	0.09	0.08	0.32	0.33	0.31	1.72	7.13
	75-105	3.90	0.70	0.86	0.12	0.19	0.05	0.03	0.09	0.30	0.26	0.48	1.61	8.58
	45-75	4.47	1.39	0.87	0.14	0.08	0.04	0.03	0.05	0.11	0.26	0.48	2.14	10.06
	15-45	3.05	1.12	0.38	0.05	0.02	0.04	0.03	0.05	0.10	0.25	0.41	1.38	6.88
	345-15	0.76	0.30	0.04			0.02	0.03	0.03	0.08	0.13	0.10	0.33	1.80
		31.87	9.18	5.29	1.59	1.31	1.28	1.05	2.20	5.96	6.47	9.13	24.67	100.00
1 m/s <=U ₇₀ <3 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

1 m/s <=U₇₀<3 m/s

Deltares

App. B.1.017

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	1.62	0.26	0.05	0.01	0.02	0.00	0.01	0.05	0.17	0.34	0.88	2.41	5.83	
	285-315	1.26	0.40	0.09	0.05	0.05	0.01	0.04	0.07	0.34	0.63	1.47	2.88	7.29	
	255-285	1.29	0.29	0.12	0.07	0.05	0.07	0.10	0.20	0.71	1.24	1.82	3.59	9.54	
	225-255	1.67	0.35	0.22	0.11	0.12	0.11	0.20	0.61	1.60	1.92	2.61	3.83	13.34	
	195-225	1.69	0.38	0.33	0.22	0.24	0.26	0.40	0.63	1.47	0.88	1.06	2.81	10.35	
	165-195	2.70	0.71	0.38	0.30	0.39	0.45	0.58	0.61	0.69	0.71	0.66	2.37	10.56	
	135-165	1.39	0.58	0.52	0.36	0.43	0.67	0.36	0.34	0.28	0.36	0.49	0.84	6.61	
	105-135	1.76	0.74	0.89	0.67	0.57	0.35	0.18	0.12	0.23	0.22	0.23	0.66	6.61	
	75-105	2.60	1.65	1.27	0.50	0.12	0.16	0.08	0.06	0.13	0.12	0.25	0.82	7.77	
	45-75	4.59	2.31	1.32	0.17	0.05	0.03	0.01	0.02	0.09	0.10	0.31	1.23	10.22	
	15-45	4.97	1.52	0.34	0.03	0.01	0.02	0.00	0.01	0.11	0.13	0.24	1.70	9.09	
	345-15	1.28	0.34	0.03	0.00		0.02	0.01	0.01	0.06	0.15	0.17	0.72	2.80	
		26.79	9.54	5.57	2.49	2.05	2.16	1.98	2.72	5.86	6.78	10.19	23.88	100.00	
3 m/s <=U ₇₀ <5 m/s														Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

3 m/s <=U₇₀<5 m/s

Deltares

App. B.1.018

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	1.36	0.16	0.02	0.00	0.01	0.01	0.01	0.03	0.10	0.30	0.80	3.16	5.96	
	285-315	0.49	0.05	0.02	0.01	0.01	0.01	0.00	0.05	0.25	0.71	2.20	3.26	7.07	
	255-285	0.31	0.08	0.05	0.03	0.02	0.02	0.02	0.20	0.76	1.55	2.50	2.64	8.20	
	225-255	0.55	0.20	0.11	0.07	0.05	0.09	0.17	0.84	3.52	3.20	3.42	3.06	15.29	
	195-225	0.63	0.22	0.18	0.14	0.23	0.37	0.64	1.90	2.15	1.17	1.18	1.62	10.42	
	165-195	2.09	0.38	0.29	0.19	0.32	0.59	0.92	1.02	0.63	0.29	0.51	1.71	8.94	
	135-165	0.85	0.50	0.34	0.48	0.76	1.15	0.66	0.41	0.38	0.25	0.19	0.51	6.47	
	105-135	0.84	0.76	0.85	1.47	1.07	0.36	0.21	0.10	0.13	0.09	0.11	0.26	6.25	
	75-105	1.48	1.99	2.24	1.39	0.18	0.10	0.04	0.03	0.04	0.04	0.09	0.30	7.92	
	45-75	3.52	3.92	1.74	0.24	0.06	0.02	0.01	0.01	0.02	0.05	0.11	0.37	10.08	
	15-45	5.45	2.65	0.36	0.02	0.01	0.02	0.01	0.00	0.03	0.06	0.05	0.73	9.39	
	345-15	2.54	0.41	0.03	0.01	0.00	0.00		0.01	0.01	0.06	0.12	0.82	4.01	
		20.11	11.32	6.23	4.07	2.72	2.76	2.68	4.60	8.03	7.77	11.27	18.43	100.00	
5 m/s <=U ₇₀ <7 m/s														Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

5 m/s <=U₇₀<7 m/s

Deltares

App. B.1.019

	MWD (° N)												
	345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345	1.07	0.02		0.01	0.00			0.01	0.03	0.17	0.69	3.51	5.51
285-315	0.14	0.05	0.02		0.01	0.01		0.04	0.22	0.78	2.88	3.06	7.21
255-285	0.08	0.04	0.01	0.02	0.01		0.03	0.13	1.11	2.66	2.93	1.22	8.22
225-255	0.19	0.08	0.05	0.01	0.05	0.03	0.18	0.88	6.20	5.43	3.12	1.34	17.55
195-225	0.18	0.11	0.09	0.07	0.14	0.24	0.81	3.12	3.12	1.36	0.78	0.65	10.65
165-195	2.15	0.19	0.13	0.14	0.37	0.75	1.94	1.65	0.60	0.43	0.37	1.08	9.82
135-165	0.25	0.25	0.27	0.34	0.92	1.24	1.04	0.46	0.17	0.13	0.10	0.16	5.34
105-135	0.27	0.42	0.63	1.78	1.49	0.28	0.12	0.07	0.05	0.03	0.05	0.09	5.28
75-105	0.44	1.39	2.35	2.36	0.24	0.05	0.01	0.02	0.04	0.02	0.04	0.07	7.01
45-75	1.49	4.31	3.42	0.25	0.03	0.00			0.01		0.02	0.09	9.62
15-45	5.20	3.61	0.25	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.22	9.35
345-15	3.18	0.23	0.01						0.01	0.03	0.06	0.92	4.45
	14.66	10.68	7.22	4.97	3.25	2.61	4.14	6.39	11.57	11.04	11.05	12.41	100.00
	7 m/s <=U ₇₀ <9 m/s												Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

7 m/s <=U₇₀<9 m/s

Deltares

App. B.1.020

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.69	0.01	0.00	0.00				0.00	0.04	0.13	0.58	3.77	5.23
	285-315	0.05	0.01	0.00				0.00	0.02	0.14	0.79	3.09	2.70	6.82
	255-285	0.04	0.00		0.01		0.01	0.00	0.15	1.19	3.62	2.94	0.60	8.57
	225-255	0.07	0.03	0.00	0.00	0.01	0.02	0.12	1.13	10.82	5.81	1.63	0.28	19.93
	195-225	0.04	0.06	0.03	0.03	0.05	0.14	0.98	5.16	3.92	0.88	0.33	0.12	11.74
	165-195	1.37	0.07	0.04	0.05	0.15	0.43	3.04	2.30	0.65	0.35	0.16	0.51	9.11
	135-165	0.07	0.08	0.15	0.17	0.90	1.95	1.17	0.39	0.13	0.07	0.03	0.08	5.18
	105-135	0.06	0.18	0.39	1.19	1.91	0.23	0.06	0.01	0.02	0.02	0.01	0.03	4.11
	75-105	0.05	0.65	2.69	3.03	0.09	0.01	0.00	0.00	0.01	0.01	0.01	0.02	6.58
	45-75	0.36	3.55	4.89	0.18	0.01				0.00		0.00	0.02	9.02
	15-45	3.43	5.24	0.22	0.01	0.00			0.00			0.01	0.06	8.97
	345-15	3.77	0.14		0.00					0.02	0.02	0.03	0.76	4.74
		10.00	10.02	8.42	4.67	3.13	2.79	5.39	9.17	16.93	11.70	8.83	8.95	100.00
9 m/s <=U ₇₀ <11 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

9 m/s <=U₇₀<11 m/s

Deltares

App. B.1.021

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.68							0.00	0.01	0.08	0.40	4.36	5.53
	285-315	0.00							0.01	0.11	0.76	3.26	1.95	6.09
	255-285						0.00		0.08	1.30	5.44	2.57	0.13	9.53
	225-255		0.02	0.01			0.01	0.09	1.70	16.37	5.43	0.93	0.05	24.62
	195-225	0.00	0.00	0.00		0.02	0.08	1.12	8.21	5.11	0.48	0.07	0.03	15.14
	165-195	0.90	0.03	0.01	0.05	0.10	0.32	4.43	2.65	0.47	0.10	0.06	0.40	9.52
	135-165	0.00	0.03	0.03	0.13	0.68	1.89	1.11	0.18	0.02	0.01	0.01	0.05	4.16
	105-135	0.00	0.01	0.10	0.89	1.56	0.18	0.04	0.00	0.00	0.00		0.00	2.80
	75-105	0.01	0.08	1.38	2.76	0.05	0.00		0.01					4.30
	45-75	0.06	2.61	4.32	0.10	0.00						0.01		7.09
	15-45	1.59	5.44	0.22									0.00	7.25
	345-15	3.11	0.09							0.01	0.01	0.02	0.73	3.97
		6.37	8.31	6.08	3.93	2.42	2.49	6.79	12.85	23.41	12.31	7.32	7.71	100.00
11 m/s <=U ₇₀ <13 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

11 m/s $\leq U_{70} < 13$ m/s

Deltares

App. B.1.022

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.34									0.03	0.26	4.69	5.32
	285-315								0.02	0.07	0.76	3.23	1.63	5.71
	255-285							0.01	0.07	1.40	6.25	2.14	0.01	9.88
	225-255		0.01	0.01				0.01	2.20	20.33	4.73	0.34	0.01	27.64
	195-225						0.03	1.21	13.12	5.50	0.29	0.03	0.01	20.19
	165-195	0.72	0.01			0.03	0.25	5.07	3.14	0.20	0.05	0.02	0.15	9.63
	135-165	0.01		0.01	0.01	0.19	1.61	0.69	0.03		0.01		0.02	2.58
	105-135			0.03	0.39	0.74	0.15	0.02		0.01				1.34
	75-105		0.01	0.77	2.87	0.03	0.01							3.69
	45-75	0.04	1.36	3.43	0.05	0.01								4.88
	15-45	0.83	5.16	0.13							0.01			6.12
	345-15	2.60	0.06									0.02	0.33	3.01
		4.54	6.61	4.38	3.33	0.99	2.04	7.02	18.58	27.51	12.12	6.04	6.85	100.00
13 m/s <=U ₇₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

13 m/s $\leq U_{70} < 15$ m/s

Deltares

App. B.1.023

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.47									0.02	0.28	4.69	5.46
	285-315									0.06	0.48	3.28	1.38	5.20
	255-285								0.07	1.18	7.82	1.83	0.01	10.90
	225-255							0.01	2.41	28.16	3.49	0.06		34.13
	195-225							1.01	15.64	5.50	0.04			22.19
	165-195	0.43					0.10	5.01	2.82	0.17	0.02		0.09	8.63
	135-165				0.01	0.08	0.79	0.55						1.43
	105-135				0.15	0.35	0.09							0.59
	75-105			0.43	1.37	0.01								1.81
	45-75	0.01	0.34	2.37	0.04									2.76
	15-45	0.45	3.40	0.22									0.01	4.09
	345-15	2.19	0.11										0.50	2.80
		3.56	3.85	3.02	1.57	0.44	0.98	6.59	20.94	35.06	11.88	5.44	6.67	100.00
15 m/s <=U ₇₀ <17 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

15 m/s $\leq U_{70}$ < 17 m/s

Deltares

App. B.1.024

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.24										0.32	4.71	5.28	
	285-315										0.87	3.82	0.87	5.56	
	255-285								0.02	1.52	8.14	2.29	0.02	12.00	
	225-255							0.02	2.82	34.40	2.48			39.72	
	195-225							0.83	17.53	4.85				23.21	
	165-195	0.35						5.36	2.44	0.02	0.02			8.18	
	135-165	0.04					0.67	0.53					0.02	1.26	
	105-135				0.16	0.16	0.14							0.47	
	75-105				0.57									0.57	
	45-75			0.59										0.59	
	15-45	0.16	1.42	0.12										1.71	
	345-15	1.00	0.08									0.02	0.35	1.44	
		1.79	1.50	0.71	0.73	0.16	0.81	6.74	22.81	40.80	11.52	6.46	5.97	100.00	
		17 m/s <=U ₇₀ <19 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

17 m/s <=U₇₀<19 m/s

Deltares

App. B.1.025

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.12										0.16	3.53	3.82	
	285-315							0.04	0.08	0.29	4.27	0.95	5.63		
	255-285							0.04	2.06	6.74	1.32		10.15		
	225-255							3.08	40.16	1.27			44.51		
	195-225						0.58	18.50	6.17				25.24		
	165-195	0.37				0.04	4.77	2.71				0.08	7.97		
	135-165					0.25	0.33						0.58		
	105-135				0.12	0.08							0.21		
	75-105				0.29								0.29		
	45-75														
	15-45		0.62										0.62		
	345-15	0.53	0.04										0.41	0.99	
		1.03	0.66		0.41		0.37	5.67	24.37	48.46	8.30	5.75	4.97	100.00	
		19 m/s <=U ₇₀ <21 m/s												Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

19 m/s ≤ U₇₀ < 21 m/s

Deltares

App. B.1.026

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345												0.22	2.23	2.46
285-315											0.78	3.24	0.89	4.92
255-285										1.34	5.92	1.68		8.94
225-255									2.35	44.69	0.78			47.82
195-225								0.34	20.89	6.59				27.82
165-195								4.36	1.90					6.26
135-165							0.22							0.22
105-135														
75-105														
45-75														
15-45		0.56												0.56
345-15	0.78												0.22	1.01
		0.78	0.56				0.22	4.69	25.14	52.63	7.49	5.14	3.35	100.00
21 m/s $\leq U_{70}$ < 23 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

21 m/s $\leq U_{70}$ < 23 m/s

Deltares

App. B.1.027

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												1.55	1.55
	285-315										1.55	4.66	1.86	8.07
	255-285									3.73	9.01	0.93		13.66
	225-255								1.86	43.79	0.31			45.96
	195-225								20.81	4.35				25.16
	165-195							4.04	1.55					5.59
	135-165													
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
								4.04	24.22	51.86	10.87	5.59	3.42	100.00
23 m/s $\leq U_{70} < 25$ m/s														Total

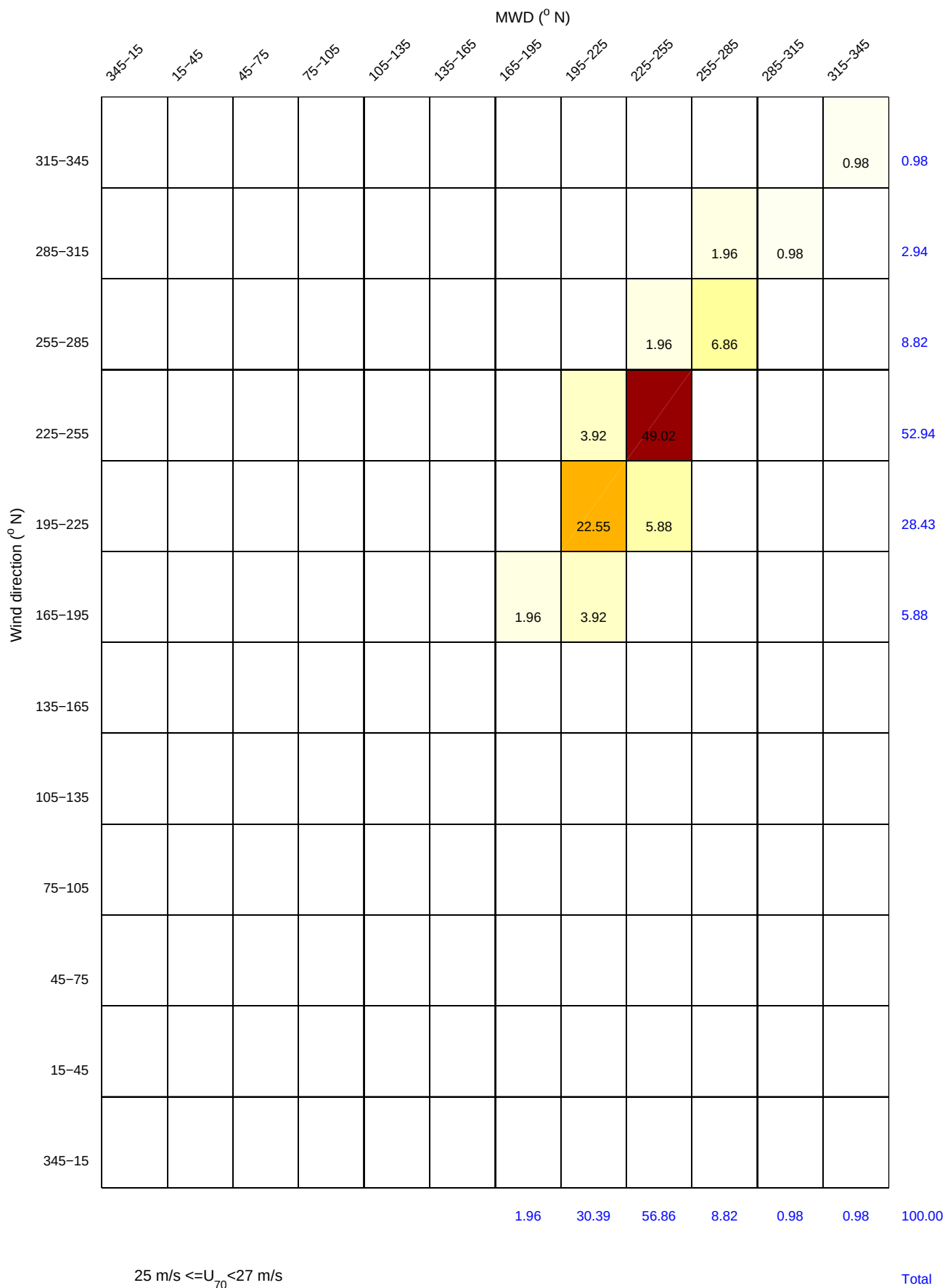
Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

23 m/s $\leq U_{70} < 25$ m/s

Deltares

App. B.1.028



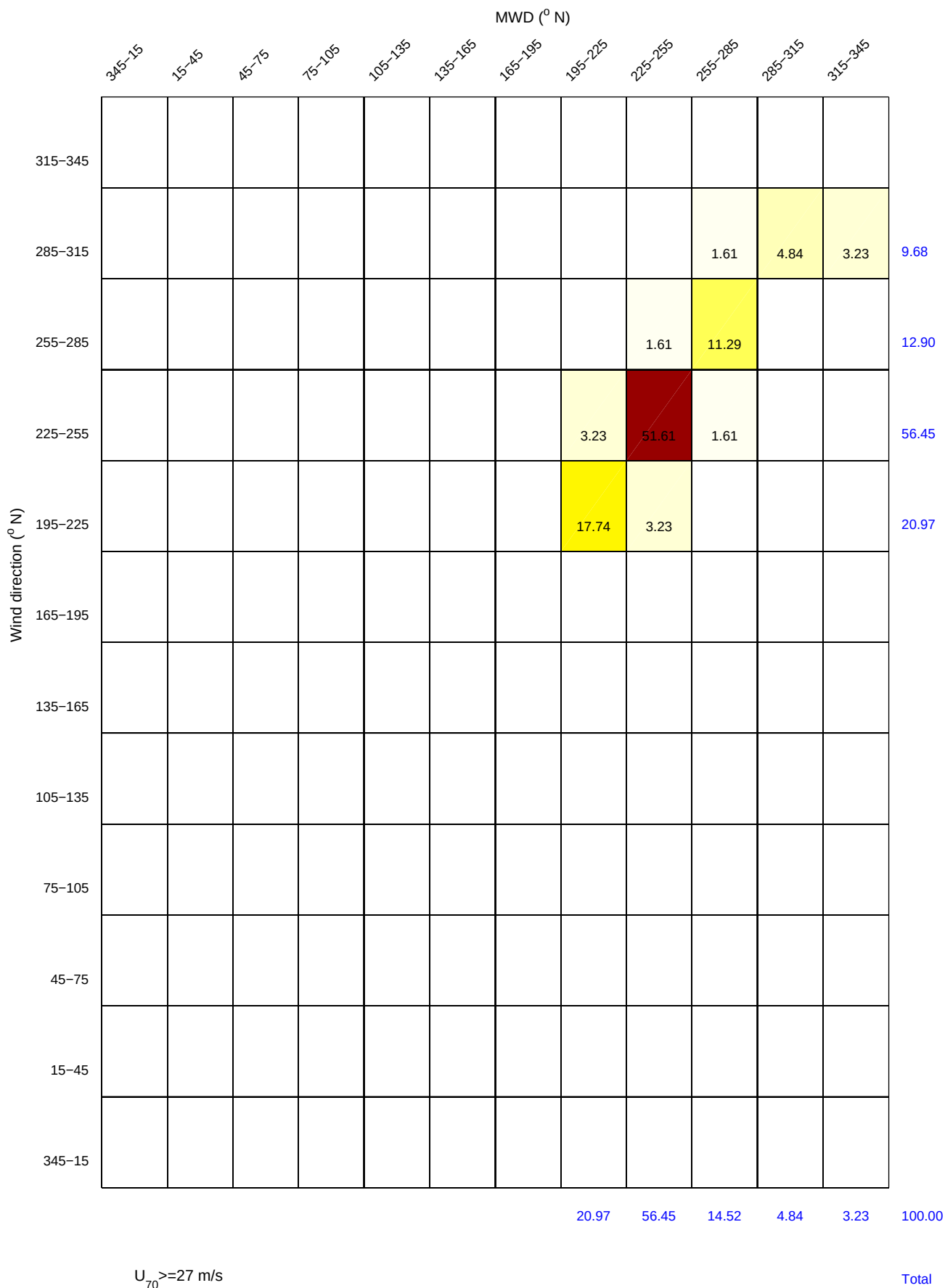
Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

25 m/s $\leq U_{70} < 27$ m/s

Deltares

App. B.1.029



Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 70m

$U_{70} \geq 27$ m/s

Deltares

App. B.1.030

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.19	0.11	0.02	0.01	0.01	0.00	0.01	0.02	0.08	0.21	0.62	3.99	6.26
	285-315	0.43	0.11	0.03	0.02	0.01	0.01	0.01	0.05	0.20	0.79	2.76	2.60	7.03
	255-285	0.43	0.09	0.04	0.02	0.02	0.02	0.02	0.15	1.19	3.84	2.57	1.42	9.83
	225-255	0.45	0.13	0.06	0.03	0.02	0.03	0.09	1.01	10.59	3.61	1.62	1.24	18.88
	195-225	0.39	0.10	0.09	0.05	0.08	0.10	0.49	5.41	3.32	0.76	0.55	0.82	12.15
	165-195	0.43	0.12	0.13	0.11	0.18	0.46	2.84	2.13	0.52	0.30	0.30	0.39	7.90
	135-165	0.49	0.22	0.23	0.23	0.54	1.25	0.77	0.29	0.16	0.15	0.15	0.31	4.80
	105-135	0.65	0.41	0.49	1.02	1.22	0.31	0.10	0.06	0.10	0.09	0.07	0.26	4.79
	75-105	0.88	1.03	1.92	1.93	0.14	0.05	0.02	0.02	0.06	0.05	0.10	0.28	6.47
	45-75	1.53	2.77	2.69	0.14	0.02	0.01	0.00	0.01	0.04	0.05	0.10	0.32	7.68
	15-45	3.28	3.47	0.21	0.01	0.01	0.01	0.00	0.01	0.05	0.06	0.09	0.47	7.67
	345-15	4.42	0.39	0.03	0.00	0.00	0.01	0.01	0.01	0.05	0.09	0.15	1.38	6.53
		14.56	8.95	5.95	3.55	2.25	2.26	4.38	9.17	16.37	10.00	9.07	13.48	100.00
All year														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

All Year

Deltares

App. B.1.031

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.58	0.62	0.09	0.02	0.02	0.03	0.06	0.10	0.35	0.52	0.70	2.45	7.54	
	285-315	1.97	0.72	0.17	0.08	0.05	0.01	0.08	0.14	0.49	0.59	0.99	2.74	8.01	
	255-285	2.28	0.53	0.21	0.07	0.08	0.04	0.06	0.34	0.62	0.90	1.44	2.71	9.28	
	225-255	2.11	0.49	0.30	0.10	0.05	0.06	0.05	0.29	1.01	0.91	1.44	2.76	9.58	
	195-225	1.93	0.45	0.35	0.21	0.18	0.13	0.18	0.32	0.86	0.69	0.93	2.10	8.32	
	165-195	2.04	0.52	0.56	0.24	0.26	0.26	0.21	0.32	0.56	0.50	0.69	1.54	7.70	
	135-165	1.94	0.54	0.62	0.22	0.18	0.27	0.16	0.21	0.48	0.40	0.48	1.45	6.95	
	105-135	2.65	0.79	0.71	0.25	0.23	0.21	0.11	0.17	0.41	0.52	0.30	1.51	7.85	
	75-105	3.23	0.90	0.98	0.20	0.17	0.04	0.02	0.08	0.35	0.27	0.57	1.61	8.43	
	45-75	3.79	1.38	0.65	0.18	0.08	0.08	0.03	0.06	0.25	0.31	0.41	1.82	9.02	
	15-45	3.98	1.39	0.48	0.06	0.03	0.05	0.03	0.08	0.23	0.37	0.50	1.92	9.12	
	345-15	3.46	1.06	0.17		0.03	0.02	0.04	0.05	0.25	0.38	0.64	2.10	8.20	
		31.98	9.39	5.29	1.61	1.34	1.20	1.02	2.16	5.84	6.36	9.10	24.70	100.00	
		1 m/s <=U ₈₀ <3 m/s													Total
Joint Occurrence table of wind direction vs. wave direction Nautical convention: coming from, clockwise from North										Height: 80m					
										1 m/s <=U ₈₀ <3 m/s					
Deltares												App. B.1.032			

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.18	0.29	0.06	0.01	0.02	0.01	0.02	0.03	0.18	0.37	0.87	3.44	7.48	
	285-315	1.38	0.39	0.09	0.06	0.04	0.02	0.05	0.15	0.33	0.80	1.68	3.70	8.68	
	255-285	1.37	0.24	0.09	0.08	0.06	0.06	0.06	0.22	0.79	1.44	2.19	3.54	10.13	
	225-255	1.33	0.36	0.15	0.10	0.08	0.07	0.16	0.48	1.48	1.44	1.98	3.07	10.71	
	195-225	1.19	0.20	0.27	0.12	0.16	0.16	0.31	0.62	1.41	0.93	0.93	2.20	8.50	
	165-195	1.15	0.31	0.29	0.31	0.38	0.52	0.71	0.63	0.64	0.60	0.63	0.88	7.05	
	135-165	1.33	0.43	0.55	0.41	0.51	0.68	0.32	0.33	0.24	0.32	0.44	0.74	6.31	
	105-135	1.85	0.97	0.97	0.72	0.59	0.43	0.16	0.08	0.25	0.24	0.21	0.69	7.16	
	75-105	2.46	1.80	1.51	0.48	0.11	0.17	0.07	0.06	0.13	0.12	0.24	0.75	7.91	
	45-75	3.81	2.34	1.19	0.16	0.05	0.02	0.01	0.02	0.11	0.12	0.32	0.90	9.06	
	15-45	4.87	1.54	0.39	0.02	0.01	0.00	0.01	0.02	0.14	0.14	0.26	1.65	9.05	
	345-15	3.94	0.75	0.07	0.01		0.02	0.03	0.03	0.14	0.28	0.35	2.33	7.94	
		26.88	9.61	5.63	2.48	2.03	2.18	1.92	2.66	5.84	6.80	10.10	23.88	100.00	
		3 m/s <=U ₈₀ <5 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

3 m/s <=U₈₀<5 m/s

Deltares

App. B.1.033

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	1.68	0.12	0.03	0.00	0.00	0.01	0.01	0.03	0.10	0.30	0.84	3.89	7.01	
	285-315	0.50	0.05	0.04	0.01	0.01	0.01	0.01	0.04	0.24	0.85	2.39	3.48	7.62	
	255-285	0.33	0.10	0.07	0.03	0.03	0.02	0.03	0.25	0.94	1.80	2.95	2.93	9.48	
	225-255	0.54	0.16	0.08	0.04	0.03	0.07	0.14	0.71	3.33	2.72	2.87	2.48	13.15	
	195-225	0.48	0.15	0.11	0.08	0.15	0.21	0.57	1.76	1.94	1.06	1.08	1.65	9.25	
	165-195	0.49	0.14	0.16	0.18	0.26	0.80	1.03	1.06	0.69	0.31	0.46	0.56	6.13	
	135-165	0.77	0.42	0.34	0.48	0.80	1.12	0.62	0.45	0.29	0.25	0.20	0.44	6.18	
	105-135	0.93	0.85	0.95	1.55	1.14	0.39	0.21	0.11	0.16	0.08	0.09	0.25	6.71	
	75-105	1.56	2.27	2.43	1.46	0.19	0.10	0.05	0.03	0.04	0.04	0.09	0.30	8.57	
	45-75	3.09	3.62	1.63	0.21	0.04	0.01	0.01	0.00	0.02	0.05	0.12	0.34	9.14	
	15-45	5.13	2.74	0.31	0.01	0.01	0.03		0.01	0.04	0.05	0.07	0.52	8.92	
	345-15	4.94	0.65	0.05	0.01	0.01	0.00	0.01	0.01	0.03	0.08	0.16	1.89	7.84	
		20.43	11.29	6.18	4.07	2.66	2.77	2.69	4.46	7.82	7.58	11.33	18.73	100.00	
5 m/s <=U ₈₀ <7 m/s														Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

5 m/s <=U₈₀<7 m/s

Deltares

App. B.1.034

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.21	0.05	0.00	0.00	0.00			0.01	0.04	0.20	0.69	4.15	6.36
	285-315	0.11	0.02	0.01	0.00	0.01	0.01		0.05	0.25	0.80	2.97	3.05	7.29
	255-285	0.12	0.04	0.02	0.02	0.01	0.01	0.02	0.14	1.27	3.22	3.39	1.30	9.56
	225-255	0.18	0.07	0.03	0.01	0.01	0.03	0.11	0.85	6.07	4.95	2.76	1.27	16.35
	195-225	0.09	0.06	0.06	0.03	0.10	0.15	0.67	2.90	2.87	1.24	0.78	0.62	9.57
	165-195	0.21	0.06	0.11	0.08	0.28	0.76	2.10	1.77	0.58	0.41	0.35	0.32	7.04
	135-165	0.22	0.25	0.25	0.28	0.95	1.32	0.94	0.38	0.14	0.13	0.10	0.14	5.11
	105-135	0.31	0.43	0.64	1.87	1.62	0.28	0.13	0.08	0.05	0.03	0.04	0.12	5.61
	75-105	0.43	1.51	2.77	2.32	0.22	0.02	0.01	0.02	0.04	0.02	0.02	0.06	7.46
	45-75	1.38	4.21	3.14	0.24	0.01	0.01			0.01	0.00	0.03	0.10	9.13
	15-45	4.74	3.63	0.12	0.01	0.00	0.00	0.00	0.01	0.02	0.01	0.03	0.14	8.72
	345-15	5.86	0.31	0.01		0.00	0.00		0.01	0.01	0.03	0.09	1.47	7.81
		14.88	10.66	7.16	4.87	3.23	2.59	3.99	6.22	11.34	11.06	11.26	12.75	100.00
7 m/s <=U ₈₀ <9 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

7 m/s <=U₈₀<9 m/s

Deltares

App. B.1.035

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.77	0.01	0.00	0.01				0.00	0.04	0.14	0.62	4.14	5.75
	285-315	0.05	0.00	0.00				0.00	0.02	0.14	0.79	3.18	2.67	6.87
	255-285	0.05	0.00		0.00	0.00	0.00	0.01	0.11	1.33	4.04	3.09	0.58	9.23
	225-255	0.06	0.02	0.01	0.01	0.00	0.02	0.11	1.08	10.72	5.40	1.40	0.28	19.11
	195-225	0.03	0.05	0.01	0.01	0.03	0.05	0.63	5.01	3.58	0.83	0.28	0.12	10.65
	165-195	0.03	0.04	0.04	0.03	0.12	0.40	3.39	2.38	0.64	0.31	0.18	0.11	7.67
	135-165	0.08	0.08	0.14	0.14	0.71	1.92	1.08	0.38	0.15	0.09	0.04	0.06	4.87
	105-135	0.09	0.16	0.35	1.21	2.16	0.36	0.07	0.03	0.02	0.02	0.01	0.03	4.49
	75-105	0.07	0.72	3.05	3.21	0.14	0.00	0.01	0.00	0.01	0.01	0.01	0.02	7.27
	45-75	0.37	3.73	4.63	0.14	0.01			0.00			0.00	0.02	8.91
	15-45	3.02	4.97	0.14		0.01			0.00	0.01	0.00	0.01	0.07	8.23
	345-15	5.58	0.23							0.01	0.04	0.08	1.04	6.98
		10.21	10.00	8.38	4.77	3.18	2.76	5.32	9.02	16.66	11.67	8.89	9.14	100.00
9 m/s <=U ₈₀ <11 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

9 m/s <=U₈₀<11 m/s

Deltares

App. B.1.036

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.62							0.00	0.01	0.09	0.44	4.50	5.67
	285-315	0.00							0.00	0.11	0.88	3.37	1.83	6.20
	255-285			0.00					0.08	1.46	5.89	2.60	0.11	10.14
	225-255	0.00	0.02	0.00			0.01	0.05	1.32	16.18	4.97	0.80	0.07	23.42
	195-225		0.00	0.00	0.01		0.03	0.62	7.91	4.65	0.45	0.07	0.01	13.76
	165-195	0.01	0.00	0.01	0.03	0.04	0.34	4.89	3.08	0.43	0.13	0.04	0.01	9.01
	135-165	0.00	0.02	0.03	0.08	0.52	1.87	1.29	0.23	0.02	0.02	0.01	0.02	4.13
	105-135	0.00	0.03	0.07	0.90	1.86	0.29	0.03	0.02	0.01	0.00			3.23
	75-105	0.01	0.13	1.78	2.93	0.09	0.01	0.01	0.00			0.00	0.00	4.97
	45-75	0.07	2.73	4.12	0.05							0.01		6.98
	15-45	1.55	5.35	0.16								0.00	0.02	7.10
	345-15	4.21	0.12							0.01	0.02	0.04	1.00	5.39
		6.49	8.40	6.19	4.00	2.51	2.56	6.88	12.66	22.88	12.45	7.38	7.59	100.00
11 m/s <=U ₈₀ <13 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

11 m/s $\leq U_{80} < 13$ m/s

Deltares

App. B.1.037

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.30									0.05	0.36	4.80	5.51	
	285-315								0.01	0.06	0.82	3.35	1.47	5.71	
	255-285								0.08	1.58	6.61	2.00	0.01	10.27	
	225-255		0.01	0.01				0.02	1.70	20.01	4.24	0.28	0.03	26.30	
	195-225							0.49	12.48	5.42	0.28	0.03	0.01	18.71	
	165-195					0.03	0.15	5.62	3.66	0.23	0.04	0.05	0.01	9.78	
	135-165		0.01	0.01	0.01	0.07	1.72	0.77	0.06	0.01	0.01	0.01	0.03	2.69	
	105-135			0.02	0.36	0.93	0.30	0.05						1.67	
	75-105		0.01	1.01	3.01	0.11	0.01							4.14	
	45-75	0.03	1.63	3.56	0.04									5.26	
	15-45	0.86	5.06	0.11						0.01	0.01			6.05	
	345-15	3.33	0.09								0.01	0.01	0.49	3.93	
		4.52	6.80	4.72	3.42	1.13	2.18	6.95	17.99	27.32	12.06	6.09	6.84	100.00	
		13 m/s <=U ₈₀ <15 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

13 m/s $\leq U_{80} < 15$ m/s

Deltares

App. B.1.038

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.31								0.01	0.02	0.30	4.56	5.19
	285-315									0.05	0.60	3.27	1.34	5.26
	255-285								0.06	1.30	7.88	1.63	0.01	10.88
	225-255								1.78	26.79	3.22	0.05		31.84
	195-225							0.21	14.90	6.02	0.06			21.20
	165-195						0.03	5.72	4.35	0.30	0.03			10.43
	135-165					0.01	0.85	0.73	0.03					1.63
	105-135				0.13	0.42	0.15							0.69
	75-105			0.49	1.44	0.05								1.98
	45-75	0.01	0.56	2.56	0.04									3.18
	15-45	0.45	3.54	0.10									0.02	4.11
	345-15	2.89	0.05									0.01	0.65	3.61
		3.66	4.16	3.15	1.61	0.48	1.03	6.66	21.13	34.47	11.81	5.26	6.58	100.00
15 m/s $\leq U_{80} < 17$ m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

15 m/s $\leq U_{80} < 17$ m/s

Deltares

App. B.1.039

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.15									0.02	0.39	4.74	5.30
	285-315										0.89	3.96	0.77	5.62
	255-285								0.02	1.64	8.66	2.03	0.02	12.37
	225-255								1.68	32.64	2.11	0.02		36.45
	195-225							0.17	16.18	6.07	0.02		0.02	22.46
	165-195							5.80	4.81	0.06				10.67
	135-165						0.62	0.77	0.02					1.41
	105-135				0.15	0.17	0.17							0.50
	75-105				0.56									0.56
	45-75	0.02	0.04	0.66										0.72
	15-45	0.27	1.57	0.12										1.95
	345-15	1.39	0.08									0.02	0.50	1.99
		1.84	1.68	0.77	0.72	0.17	0.79	6.75	22.71	40.41	11.69	6.42	6.05	100.00
17 m/s <=U ₈₀ <19 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

17 m/s ≤ U₈₀ < 19 m/s

Deltares

App. B.1.040

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345	0.19											0.35	3.11	3.65
285-315								0.04	0.08	0.50	4.34	0.92	5.88	
255-285								0.04	2.00	6.38	1.08		9.49	
225-255								2.42	39.34	1.38			43.14	
195-225							0.04	17.25	7.03				24.32	
165-195							5.49	4.73					10.22	
135-165						0.27	0.38	0.04					0.69	
105-135					0.12	0.12							0.23	
75-105					0.35								0.35	
45-75														
15-45		0.69											0.69	
345-15	0.85												0.50	1.34
		1.04	0.69		0.46		0.38	5.92	24.51	48.44	8.26	5.76	4.53	100.00
19 m/s $\leq U_{80} < 21$ m/s		Total												

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

19 m/s $\leq U_{80} < 21$ m/s

Deltares

App. B.1.041

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345												0.29	2.22	2.51
285-315											0.77	3.67	0.77	5.22
255-285										0.87	6.57	1.35		8.79
225-255								1.06	42.32	0.58				43.96
195-225								18.84	8.60					27.44
165-195							4.44	5.41						9.86
135-165						0.19	0.10							0.29
105-135														
75-105														
45-75														
15-45		0.48												0.48
345-15	0.68												0.77	1.45
		0.68	0.48				0.19	4.54	25.31	51.79	7.92	5.31	3.77	100.00
21 m/s $\leq U_{80} < 23$ m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

21 m/s $\leq U_{80} < 23$ m/s

Deltares

App. B.1.042

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												2.50	2.50
	285-315										1.39	4.72	0.83	6.94
	255-285									2.50	7.22	0.56		10.28
	225-255								0.56	43.61	0.56			44.72
	195-225								18.33	7.78				26.11
	165-195							3.33	5.83					9.17
	135-165							0.28						0.28
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
								3.61	24.72	53.89	9.17	5.28	3.33	100.00
23 m/s $\leq U_{80} < 25$ m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

23 m/s $\leq U_{80} < 25$ m/s

Deltares

App. B.1.043

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												0.84	0.84
	285-315										1.68	1.68		3.36
	255-285									0.84	7.56			8.40
	225-255							2.52	44.54					47.06
	195-225							20.17	10.92					31.09
	165-195						2.52	6.72						9.24
	135-165													
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
								2.52	29.41	56.30	9.24	1.68	0.84	100.00
25 m/s $\leq U_{80} < 27$ m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

25 m/s $\leq U_{80} < 27$ m/s

Deltares

App. B.1.044

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315		
	315-345												2.78	2.78
	285-315											4.17		4.17
	255-285								2.78	12.50				15.28
	225-255							1.39	47.22	1.39				50.00
	195-225							15.28	6.94					22.22
	165-195							5.56						5.56
	135-165													
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
									22.22	56.94	13.89	4.17	2.78	100.00
U ₈₀ >= 27 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 80m

U₈₀ >= 27 m/s

Deltares

App. B.1.045

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.18	0.11	0.02	0.01	0.01	0.01	0.01	0.02	0.08	0.21	0.63	4.00	6.29
	285-315	0.43	0.11	0.03	0.02	0.01	0.01	0.01	0.05	0.20	0.80	2.76	2.61	7.05
	255-285	0.43	0.10	0.04	0.02	0.02	0.02	0.02	0.15	1.21	3.87	2.58	1.43	9.90
	225-255	0.46	0.12	0.06	0.03	0.02	0.04	0.09	1.03	10.65	3.60	1.62	1.24	18.96
	195-225	0.40	0.10	0.10	0.05	0.08	0.10	0.51	5.44	3.26	0.74	0.54	0.80	12.12
	165-195	0.43	0.12	0.12	0.11	0.19	0.47	2.84	2.10	0.51	0.29	0.29	0.39	7.86
	135-165	0.49	0.23	0.24	0.24	0.57	1.26	0.75	0.27	0.16	0.15	0.15	0.32	4.83
	105-135	0.65	0.43	0.51	1.03	1.19	0.30	0.10	0.06	0.10	0.09	0.07	0.26	4.79
	75-105	0.88	1.04	1.96	1.90	0.13	0.04	0.02	0.02	0.06	0.05	0.09	0.27	6.46
	45-75	1.52	2.79	2.64	0.14	0.02	0.01	0.00	0.01	0.04	0.05	0.09	0.32	7.63
	15-45	3.29	3.41	0.20	0.01	0.01	0.01	0.00	0.01	0.05	0.06	0.09	0.47	7.60
	345-15	4.40	0.38	0.03	0.00	0.00	0.01	0.01	0.01	0.05	0.09	0.15	1.38	6.51
		14.56	8.95	5.95	3.55	2.25	2.26	4.38	9.17	16.37	10.00	9.07	13.48	100.00
All year														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

All Year

Deltares

App. B.1.046

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.62	0.65	0.10	0.02	0.02	0.04	0.06	0.09	0.34	0.48	0.66	2.47	7.56	
	285-315	1.98	0.71	0.18	0.09	0.05	0.01	0.08	0.15	0.48	0.61	1.02	2.73	8.08	
	255-285	2.32	0.59	0.22	0.07	0.07	0.03	0.06	0.33	0.65	0.88	1.45	2.72	9.40	
	225-255	2.13	0.48	0.28	0.11	0.05	0.08	0.04	0.28	0.98	0.90	1.38	2.72	9.43	
	195-225	1.96	0.45	0.37	0.21	0.18	0.13	0.19	0.31	0.85	0.70	0.95	2.07	8.37	
	165-195	2.01	0.55	0.53	0.23	0.26	0.27	0.20	0.31	0.54	0.50	0.65	1.61	7.65	
	135-165	1.96	0.54	0.61	0.22	0.18	0.26	0.15	0.22	0.49	0.44	0.53	1.45	7.05	
	105-135	2.62	0.82	0.74	0.23	0.23	0.21	0.11	0.15	0.42	0.49	0.29	1.48	7.79	
	75-105	3.21	0.89	0.96	0.20	0.16	0.03	0.02	0.09	0.35	0.25	0.54	1.67	8.36	
	45-75	3.73	1.42	0.65	0.19	0.09	0.08	0.02	0.05	0.25	0.28	0.43	1.81	8.97	
	15-45	3.95	1.39	0.47	0.07	0.03	0.04	0.04	0.09	0.23	0.38	0.49	1.89	9.08	
	345-15	3.44	1.04	0.18		0.03	0.02	0.05	0.05	0.29	0.40	0.66	2.09	8.25	
		31.94	9.53	5.29	1.62	1.33	1.20	1.02	2.14	5.85	6.32	9.05	24.71	100.00	
		1 m/s <=U ₉₀ <3 m/s												Total	
Joint Occurrence table of wind direction vs. wave direction Nautical convention: coming from, clockwise from North										Height: 90m					
										1 m/s <=U ₉₀ <3 m/s					
Deltares												App. B.1.047			

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.22	0.29	0.06	0.01	0.02	0.00	0.01	0.03	0.19	0.39	0.92	3.45	7.60	
	285-315	1.36	0.38	0.08	0.05	0.04	0.03	0.05	0.14	0.32	0.81	1.69	3.71	8.67	
	255-285	1.40	0.25	0.09	0.07	0.07	0.05	0.05	0.21	0.80	1.41	2.22	3.55	10.17	
	225-255	1.37	0.36	0.15	0.10	0.09	0.07	0.16	0.48	1.44	1.43	1.98	3.07	10.70	
	195-225	1.20	0.22	0.28	0.12	0.16	0.18	0.30	0.61	1.36	0.89	0.91	2.17	8.40	
	165-195	1.16	0.29	0.29	0.31	0.38	0.53	0.71	0.64	0.63	0.57	0.62	0.85	6.97	
	135-165	1.34	0.45	0.55	0.42	0.53	0.67	0.32	0.29	0.24	0.31	0.42	0.77	6.31	
	105-135	1.91	1.02	1.04	0.70	0.57	0.44	0.16	0.09	0.22	0.25	0.21	0.68	7.29	
	75-105	2.45	1.82	1.51	0.50	0.11	0.15	0.07	0.06	0.11	0.12	0.23	0.73	7.86	
	45-75	3.79	2.37	1.19	0.15	0.05	0.03	0.01	0.02	0.10	0.12	0.31	0.89	9.03	
	15-45	4.92	1.56	0.37	0.02	0.01	0.00	0.01	0.02	0.12	0.15	0.26	1.64	9.08	
	345-15	3.96	0.71	0.06	0.01		0.02	0.02	0.03	0.13	0.29	0.35	2.33	7.91	
		27.08	9.72	5.65	2.46	2.03	2.19	1.87	2.61	5.68	6.74	10.11	23.85	100.00	
3 m/s <=U ₉₀ <5 m/s														Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

3 m/s <=U₉₀<5 m/s

Deltares

App. B.1.048

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	1.68	0.13	0.03	0.00	0.00	0.01	0.01	0.03	0.11	0.30	0.82	3.90	7.03	
	285-315	0.51	0.06	0.04	0.01	0.01	0.01	0.01	0.06	0.25	0.88	2.39	3.57	7.79	
	255-285	0.33	0.11	0.07	0.04	0.03	0.02	0.03	0.25	0.95	1.80	2.97	2.98	9.59	
	225-255	0.55	0.15	0.08	0.03	0.03	0.07	0.14	0.71	3.26	2.63	2.88	2.52	13.06	
	195-225	0.50	0.13	0.12	0.08	0.15	0.21	0.57	1.74	1.86	0.99	1.03	1.62	9.01	
	165-195	0.52	0.16	0.16	0.19	0.28	0.80	1.02	0.99	0.69	0.30	0.46	0.56	6.13	
	135-165	0.77	0.46	0.36	0.49	0.80	1.12	0.61	0.41	0.29	0.25	0.21	0.46	6.23	
	105-135	0.97	0.90	0.93	1.56	1.11	0.37	0.18	0.10	0.18	0.07	0.09	0.25	6.71	
	75-105	1.62	2.26	2.41	1.47	0.17	0.10	0.05	0.03	0.04	0.04	0.09	0.30	8.58	
	45-75	3.10	3.61	1.58	0.20	0.04	0.01	0.00	0.00	0.02	0.05	0.12	0.35	9.09	
	15-45	5.16	2.65	0.32	0.01	0.01	0.03		0.01	0.04	0.05	0.07	0.55	8.89	
	345-15	4.94	0.65	0.05	0.01	0.01	0.00	0.01	0.01	0.02	0.08	0.17	1.94	7.89	
		20.66	11.26	6.15	4.09	2.65	2.74	2.66	4.35	7.71	7.43	11.30	18.99	100.00	
5 m/s <=U ₉₀ <7 m/s														Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

5 m/s <=U₉₀<7 m/s

Deltares

App. B.1.049

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.21	0.05	0.01	0.00	0.00			0.01	0.04	0.21	0.72	4.27	6.52
	285-315	0.13	0.03	0.01	0.01	0.01	0.01		0.05	0.25	0.84	2.99	3.11	7.43
	255-285	0.12	0.03	0.02	0.02	0.01	0.01	0.02	0.16	1.27	3.24	3.43	1.40	9.74
	225-255	0.22	0.08	0.02	0.02	0.02	0.04	0.11	0.84	5.99	4.86	2.77	1.29	16.26
	195-225	0.11	0.07	0.07	0.05	0.10	0.16	0.72	2.86	2.71	1.25	0.78	0.64	9.51
	165-195	0.22	0.07	0.11	0.09	0.30	0.75	1.99	1.75	0.57	0.39	0.36	0.32	6.92
	135-165	0.25	0.26	0.27	0.32	0.96	1.29	0.90	0.35	0.12	0.14	0.10	0.15	5.11
	105-135	0.30	0.43	0.67	1.87	1.58	0.28	0.13	0.09	0.05	0.03	0.03	0.11	5.58
	75-105	0.44	1.54	2.74	2.22	0.23	0.03	0.01	0.01	0.04	0.02	0.03	0.06	7.37
	45-75	1.44	4.24	3.02	0.24	0.01	0.01			0.00	0.00	0.03	0.10	9.09
	15-45	4.75	3.51	0.12	0.01	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.16	8.63
	345-15	5.87	0.31	0.01		0.00	0.00		0.01	0.01	0.03	0.10	1.50	7.85
		15.04	10.62	7.08	4.85	3.23	2.56	3.89	6.12	11.09	11.04	11.38	13.10	100.00
7 m/s <=U ₉₀ <9 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

7 m/s <=U₉₀<9 m/s

Deltares

App. B.1.050

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.79	0.01	0.00	0.01				0.00	0.04	0.15	0.65	4.10	5.77
	285-315	0.05	0.00	0.00				0.00	0.03	0.15	0.80	3.12	2.67	6.83
	255-285	0.06	0.01		0.00	0.00	0.00	0.01	0.11	1.36	4.02	3.11	0.59	9.29
	225-255	0.06	0.03	0.01	0.01	0.01	0.01	0.11	1.16	10.47	5.53	1.44	0.34	19.16
	195-225	0.04	0.05	0.01	0.01	0.04	0.06	0.66	4.90	3.54	0.83	0.32	0.13	10.59
	165-195	0.04	0.03	0.05	0.04	0.15	0.44	3.37	2.32	0.60	0.33	0.17	0.12	7.64
	135-165	0.08	0.09	0.14	0.19	0.79	1.90	1.02	0.35	0.15	0.10	0.05	0.07	4.94
	105-135	0.12	0.20	0.38	1.21	2.02	0.32	0.09	0.03	0.02	0.02	0.01	0.03	4.44
	75-105	0.08	0.81	3.19	3.15	0.12	0.00	0.00		0.01	0.01	0.01	0.02	7.41
	45-75	0.40	3.77	4.50	0.14	0.01			0.01			0.00	0.02	8.84
	15-45	3.12	4.75	0.11		0.01				0.01	0.00	0.01	0.08	8.08
	345-15	5.61	0.21							0.02	0.04	0.08	1.06	7.02
		10.45	9.96	8.38	4.75	3.14	2.75	5.27	8.90	16.38	11.83	8.97	9.21	100.00
9 m/s <=U ₉₀ <11 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

9 m/s <=U₉₀<11 m/s

Deltares

App. B.1.051

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.62							0.00	0.01	0.08	0.44	4.50	5.66
	285-315	0.00							0.00	0.12	0.84	3.43	1.80	6.21
	255-285			0.00				0.00	0.07	1.49	5.86	2.60	0.13	10.16
	225-255	0.01	0.02	0.00			0.02	0.07	1.33	15.87	4.95	0.87	0.08	23.22
	195-225		0.00	0.01	0.01		0.04	0.67	7.80	4.58	0.45	0.07	0.02	13.64
	165-195	0.01	0.01	0.02	0.03	0.04	0.35	4.80	2.93	0.44	0.13	0.06	0.02	8.84
	135-165	0.01	0.02	0.04	0.08	0.60	1.88	1.20	0.26	0.03	0.03	0.01	0.02	4.18
	105-135	0.01	0.04	0.10	1.05	1.88	0.26	0.03	0.02	0.01	0.01			3.41
	75-105	0.02	0.15	1.97	2.91	0.08	0.01		0.01			0.00	0.00	5.16
	45-75	0.07	2.84	3.99	0.05							0.01		6.97
	15-45	1.67	5.32	0.13								0.00	0.02	7.15
	345-15	4.22	0.12							0.01	0.02	0.04	0.99	5.39
		6.64	8.53	6.27	4.13	2.60	2.56	6.78	12.42	22.56	12.37	7.54	7.59	100.00
11 m/s <=U ₉₀ <13 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

11 m/s $\leq U_{90} < 13$ m/s

Deltares

App. B.1.052

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.27									0.06	0.33	4.82	5.49
	285-315							0.01	0.07	0.85	3.34	1.47	5.74	
	255-285							0.08	1.63	6.51	2.06	0.01	10.30	
	225-255		0.01	0.01			0.02	1.69	19.86	4.23	0.32	0.03	26.15	
	195-225						0.51	12.04	5.20	0.30	0.04	0.02	18.10	
	165-195				0.03	0.17	5.72	3.52	0.24	0.04	0.04		9.76	
	135-165		0.01	0.02	0.03	0.12	1.85	0.87	0.05	0.01	0.01	0.01	0.03	2.99
	105-135			0.04	0.42	1.03	0.32	0.05						1.86
	75-105		0.03	1.16	2.97	0.10	0.01							4.26
	45-75	0.03	1.76	3.63	0.04									5.45
	15-45	0.86	5.07	0.12						0.01	0.01			6.06
	345-15	3.25	0.08								0.01	0.01	0.48	3.83
		4.41	6.95	4.97	3.45	1.27	2.35	7.18	17.39	27.01	12.01	6.15	6.85	100.00
13 m/s <=U ₉₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

13 m/s $\leq U_{90} < 15$ m/s

Deltares

App. B.1.053

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.29									0.03	0.35	4.42	5.09	
	285-315									0.05	0.63	3.16	1.31	5.15	
	255-285								0.06	1.22	7.82	1.63	0.01	10.74	
	225-255							0.01	1.90	26.39	3.34	0.05		31.70	
	195-225							0.25	14.93	5.98	0.08			21.24	
	165-195						0.05	5.62	4.35	0.28	0.04			10.35	
	135-165					0.02	0.85	0.69	0.04				0.01	1.61	
	105-135				0.12	0.43	0.17							0.72	
	75-105			0.51	1.51	0.06								2.07	
	45-75	0.01	0.70	2.71	0.04									3.47	
	15-45	0.51	3.59	0.09									0.01	4.20	
	345-15	2.94	0.05									0.01	0.66	3.66	
		3.75	4.34	3.31	1.67	0.52	1.06	6.57	21.29	33.92	11.95	5.20	6.42	100.00	
		15 m/s <=U ₉₀ <17 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

15 m/s <=U₉₀<17 m/s

Deltares

App. B.1.054

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.20								0.02	0.02	0.37	4.70	5.31	
	285-315										0.83	3.79	0.80	5.42	
	255-285								0.02	1.66	8.58	1.94	0.02	12.22	
	225-255								1.61	32.77	2.07	0.02		36.46	
	195-225							0.17	16.18	5.92			0.02	22.28	
	165-195							5.88	4.68	0.07				10.63	
	135-165						0.67	0.76	0.02					1.44	
	105-135				0.15	0.18	0.17							0.50	
	75-105				0.59									0.59	
	45-75	0.02	0.06	0.70										0.78	
	15-45	0.28	1.87	0.11									0.02	2.27	
	345-15	1.48	0.07									0.02	0.52	2.09	
		1.98	2.00	0.81	0.74	0.18	0.83	6.80	22.50	40.44	11.50	6.14	6.07	100.00	
		17 m/s <=U ₉₀ <19 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

17 m/s $\leq U_{90} < 19$ m/s

Deltares

App. B.1.055

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345	0.18											0.36	3.02	3.55
285-315										0.07	0.57	4.27	0.79	5.71
255-285									0.04	1.87	6.93	1.15		9.98
225-255									2.62	39.25	1.51			43.38
195-225								0.07	17.38	6.75				24.20
165-195								5.31	4.67					9.98
135-165						0.29	0.39	0.04						0.72
105-135					0.14	0.11								0.25
75-105					0.32									0.32
45-75				0.04										0.04
15-45			0.65											0.65
345-15	0.75												0.47	1.22
		0.93	0.65	0.04	0.47		0.39	5.78	24.74	47.94	9.01	5.78	4.27	100.00
19 m/s $\leq U_{90} < 21$ m/s		Total												

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

19 m/s $\leq U_{90} < 21$ m/s

Deltares

App. B.1.056

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
315-345												0.26	2.31	2.57
285-315								0.09			0.60	3.68	0.94	5.30
255-285										1.11	6.07	1.28		8.47
225-255								1.11	40.63	0.77				42.51
195-225								19.93	8.47					28.40
165-195							5.22	5.22						10.44
135-165						0.17	0.09							0.26
105-135														
75-105														
45-75														
15-45		0.51												0.51
345-15	0.77												0.77	1.54
		0.77	0.51				0.17	5.30	26.35	50.21	7.44	5.22	4.02	100.00
21 m/s <=U ₉₀ <23 m/s		Total												

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

21 m/s <=U₉₀<23 m/s

Deltares

App. B.1.057

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												2.27	2.27
	285-315										1.52	4.80	0.76	7.07
	255-285									2.78	6.57	0.51		9.85
	225-255							0.76	46.46	0.51				47.73
	195-225							15.91	8.08					23.99
	165-195						3.28	5.56						8.84
	135-165						0.25							0.25
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
								3.54	22.22	57.32	8.59	5.30	3.03	100.00
23 m/s <=U ₉₀ <25 m/s														Total

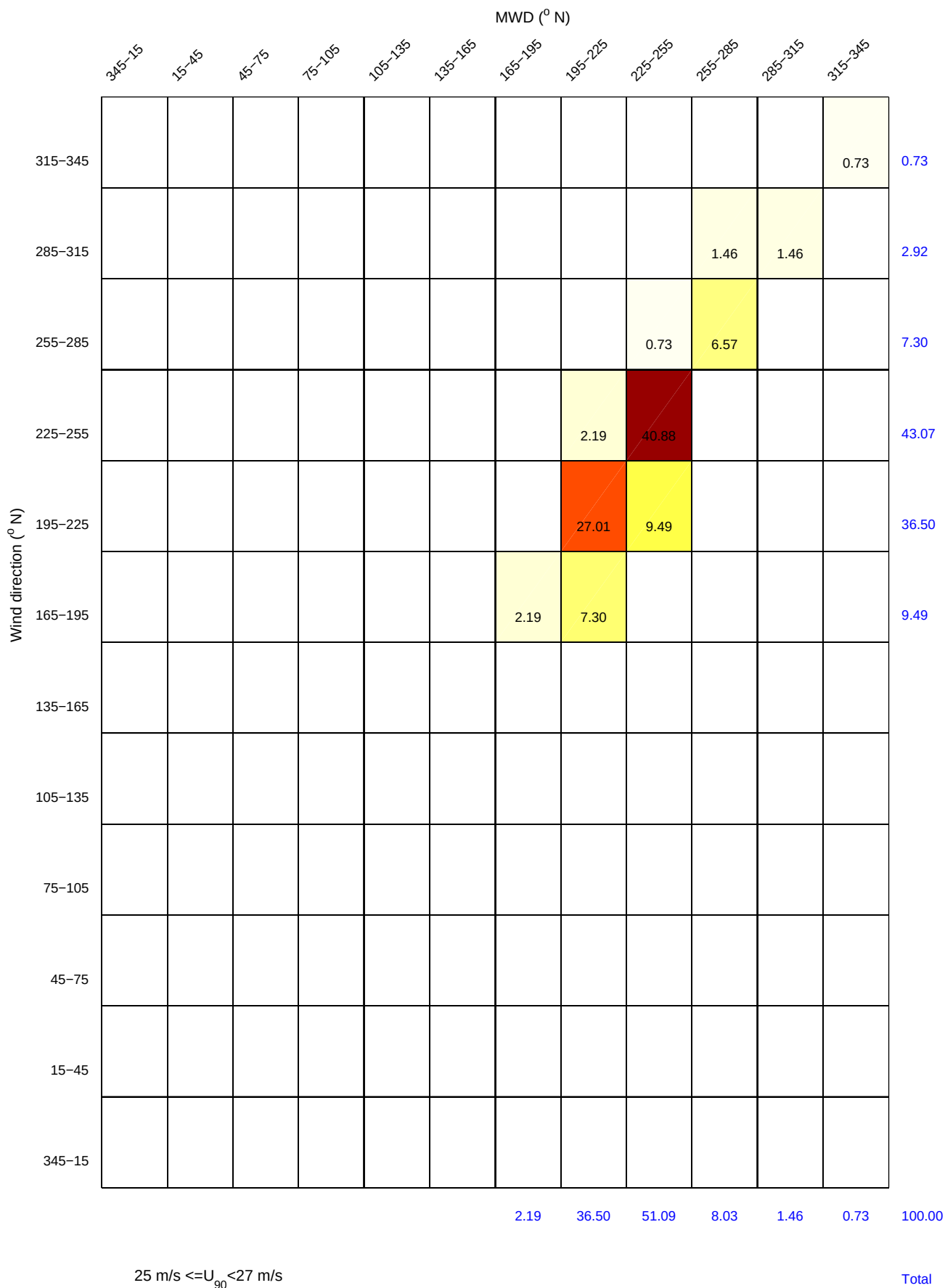
Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

23 m/s <=U₉₀<25 m/s

Deltares

App. B.1.058



Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

25 m/s $\leq U_{90} < 27$ m/s

Deltares

App. B.1.059

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												2.38	2.38
	285-315											3.57		3.57
	255-285								2.38	11.90				14.29
	225-255							1.19	51.19	1.19				53.57
	195-225							13.10	8.33					21.43
	165-195							4.76						4.76
	135-165													
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
									19.05	61.90	13.10	3.57	2.38	100.00
U ₉₀ >= 27 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 90m

U₉₀ >= 27 m/s

Deltares

App. B.1.060

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.19	0.11	0.03	0.01	0.01	0.00	0.01	0.02	0.08	0.21	0.64	4.01	6.31
	285-315	0.43	0.12	0.03	0.02	0.01	0.01	0.01	0.05	0.21	0.81	2.77	2.60	7.08
	255-285	0.44	0.10	0.04	0.02	0.02	0.02	0.03	0.16	1.23	3.90	2.59	1.43	9.97
	225-255	0.47	0.13	0.06	0.03	0.02	0.04	0.09	1.05	10.70	3.58	1.60	1.24	19.03
	195-225	0.40	0.10	0.10	0.05	0.08	0.11	0.53	5.47	3.20	0.73	0.53	0.78	12.08
	165-195	0.43	0.12	0.12	0.11	0.19	0.48	2.84	2.07	0.50	0.29	0.29	0.39	7.85
	135-165	0.49	0.23	0.25	0.25	0.59	1.25	0.74	0.25	0.16	0.15	0.15	0.32	4.84
	105-135	0.65	0.44	0.52	1.04	1.18	0.29	0.09	0.06	0.10	0.08	0.07	0.25	4.77
	75-105	0.88	1.06	1.98	1.88	0.12	0.04	0.02	0.02	0.05	0.05	0.09	0.27	6.46
	45-75	1.53	2.81	2.60	0.13	0.02	0.01	0.00	0.01	0.03	0.04	0.09	0.32	7.60
	15-45	3.28	3.36	0.19	0.01	0.01	0.01	0.00	0.01	0.05	0.06	0.09	0.47	7.53
	345-15	4.37	0.37	0.03	0.00	0.00	0.01	0.01	0.01	0.05	0.09	0.16	1.39	6.48
		14.56	8.95	5.95	3.55	2.25	2.26	4.38	9.17	16.37	10.00	9.07	13.48	100.00
All year														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

All Year

Deltares

App. B.1.061

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.71	0.63	0.12	0.02	0.03	0.03	0.06	0.09	0.35	0.46	0.65	2.52	7.66	
	285-315	2.02	0.71	0.18	0.09	0.03	0.03	0.08	0.16	0.45	0.61	1.04	2.71	8.12	
	255-285	2.28	0.60	0.24	0.07	0.06	0.05	0.03	0.33	0.68	0.88	1.46	2.71	9.39	
	225-255	2.13	0.47	0.27	0.11	0.06	0.09	0.04	0.27	0.98	0.95	1.36	2.80	9.54	
	195-225	1.96	0.50	0.41	0.21	0.18	0.12	0.19	0.31	0.84	0.64	0.88	1.99	8.23	
	165-195	2.01	0.53	0.53	0.26	0.26	0.30	0.20	0.37	0.53	0.50	0.67	1.63	7.77	
	135-165	1.96	0.56	0.62	0.20	0.18	0.25	0.15	0.19	0.51	0.50	0.51	1.42	7.05	
	105-135	2.63	0.79	0.74	0.25	0.23	0.18	0.09	0.15	0.37	0.45	0.33	1.46	7.65	
	75-105	3.17	0.92	1.01	0.19	0.16	0.04	0.03	0.09	0.36	0.25	0.52	1.67	8.41	
	45-75	3.74	1.50	0.61	0.18	0.09	0.08		0.04	0.22	0.30	0.41	1.79	8.96	
	15-45	3.95	1.35	0.43	0.08	0.03	0.04	0.04	0.10	0.25	0.40	0.52	1.87	9.06	
	345-15	3.37	1.04	0.18		0.03	0.03	0.06	0.05	0.26	0.39	0.68	2.10	8.17	
		31.92	9.60	5.34	1.64	1.34	1.24	0.97	2.15	5.80	6.32	9.03	24.64	100.00	
1 m/s <=U ₁₀₀ <3 m/s														Total	
Joint Occurrence table of wind direction vs. wave direction Nautical convention: coming from, clockwise from North										Height: 100m					
										1 m/s <=U ₁₀₀ <3 m/s					
Deltares												App. B.1.062			

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.22	0.28	0.07	0.02	0.02	0.00	0.01	0.02	0.20	0.39	0.92	3.48	7.63	
	285-315	1.36	0.40	0.07	0.05	0.05	0.03	0.05	0.14	0.32	0.81	1.66	3.70	8.66	
	255-285	1.47	0.27	0.08	0.07	0.07	0.05	0.07	0.21	0.79	1.43	2.24	3.57	10.33	
	225-255	1.42	0.36	0.16	0.11	0.09	0.06	0.15	0.47	1.45	1.43	1.96	3.01	10.66	
	195-225	1.18	0.24	0.25	0.13	0.14	0.18	0.30	0.62	1.32	0.88	0.92	2.19	8.36	
	165-195	1.17	0.30	0.27	0.29	0.39	0.53	0.70	0.63	0.62	0.56	0.62	0.85	6.95	
	135-165	1.30	0.43	0.56	0.43	0.53	0.66	0.32	0.26	0.22	0.28	0.41	0.79	6.19	
	105-135	1.86	1.07	1.06	0.71	0.54	0.44	0.15	0.08	0.24	0.25	0.21	0.64	7.27	
	75-105	2.46	1.88	1.48	0.49	0.12	0.14	0.06	0.06	0.10	0.12	0.24	0.71	7.84	
	45-75	3.89	2.37	1.19	0.15	0.04	0.02	0.01	0.02	0.10	0.11	0.31	0.89	9.12	
	15-45	4.94	1.58	0.36	0.01	0.01	0.01	0.01	0.02	0.13	0.14	0.25	1.66	9.11	
	345-15	3.93	0.70	0.06	0.00		0.02	0.02	0.03	0.13	0.30	0.36	2.34	7.89	
		27.19	9.89	5.62	2.47	2.00	2.16	1.87	2.57	5.62	6.70	10.10	23.82	100.00	
		3 m/s <=U ₁₀₀ <5 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

3 m/s <=U₁₀₀<5 m/s

Deltares

App. B.1.063

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	1.71	0.14	0.04	0.00	0.00	0.00	0.01	0.03	0.11	0.32	0.85	3.95	7.15	
	285-315	0.53	0.05	0.03	0.01	0.01	0.01	0.01	0.06	0.27	0.88	2.42	3.58	7.86	
	255-285	0.31	0.12	0.08	0.04	0.03	0.01	0.04	0.25	0.95	1.80	3.02	3.02	9.67	
	225-255	0.55	0.15	0.09	0.03	0.03	0.08	0.15	0.74	3.18	2.52	2.78	2.55	12.86	
	195-225	0.52	0.12	0.14	0.08	0.17	0.21	0.57	1.69	1.82	0.98	1.01	1.60	8.91	
	165-195	0.55	0.17	0.17	0.20	0.27	0.83	1.02	0.95	0.70	0.30	0.45	0.57	6.17	
	135-165	0.82	0.49	0.36	0.47	0.80	1.09	0.57	0.37	0.28	0.26	0.23	0.47	6.21	
	105-135	1.02	0.91	0.95	1.56	1.11	0.35	0.17	0.10	0.17	0.07	0.09	0.26	6.76	
	75-105	1.67	2.31	2.42	1.46	0.16	0.10	0.05	0.03	0.03	0.04	0.08	0.30	8.64	
	45-75	3.15	3.60	1.53	0.20	0.05	0.01	0.00		0.02	0.05	0.12	0.38	9.10	
	15-45	5.12	2.52	0.31	0.01	0.01	0.02	0.00	0.01	0.04	0.05	0.06	0.56	8.72	
	345-15	4.90	0.65	0.05	0.01	0.01	0.01	0.02	0.01	0.02	0.08	0.18	2.00	7.93	
		20.84	11.22	6.16	4.09	2.64	2.74	2.61	4.25	7.60	7.35	11.27	19.23	100.00	
5 m/s <=U ₁₀₀ <7 m/s														Total	

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

5 m/s <=U₁₀₀<7 m/s

Deltares

App. B.1.064

		MWD (° N)											Wind direction (° N)	
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.24	0.05	0.01	0.00	0.00			0.01	0.05	0.22	0.73	4.34	6.66
	285-315	0.13	0.03	0.01	0.01	0.01	0.01		0.05	0.26	0.87	3.03	3.17	7.58
	255-285	0.13	0.03	0.02	0.02	0.02	0.01	0.02	0.17	1.29	3.32	3.50	1.47	10.00
	225-255	0.24	0.09	0.03	0.02	0.02	0.05	0.11	0.85	5.84	4.72	2.78	1.36	16.12
	195-225	0.13	0.07	0.09	0.05	0.11	0.17	0.76	2.78	2.55	1.23	0.77	0.65	9.35
	165-195	0.24	0.07	0.10	0.10	0.30	0.74	1.94	1.69	0.57	0.38	0.36	0.33	6.82
	135-165	0.25	0.27	0.30	0.37	0.98	1.28	0.90	0.36	0.11	0.13	0.10	0.16	5.21
	105-135	0.28	0.46	0.66	1.86	1.52	0.28	0.13	0.07	0.06	0.03	0.03	0.11	5.49
	75-105	0.47	1.56	2.73	2.18	0.22	0.02	0.01	0.01	0.04	0.01	0.03	0.06	7.35
	45-75	1.50	4.22	2.89	0.23	0.01	0.01			0.01	0.00	0.03	0.09	8.99
	15-45	4.79	3.43	0.13	0.01	0.00	0.00		0.01	0.01	0.02	0.03	0.15	8.58
	345-15	5.88	0.30	0.01			0.00		0.01	0.01	0.03	0.09	1.52	7.85
		15.29	10.58	6.98	4.84	3.19	2.56	3.87	6.00	10.81	10.96	11.49	13.42	100.00
7 m/s <=U ₁₀₀ <9 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

7 m/s <=U₁₀₀<9 m/s

Deltares

App. B.1.065

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.79	0.01		0.01				0.00	0.04	0.16	0.63	4.10	5.75
	285-315	0.05	0.00	0.00				0.00	0.03	0.15	0.82	3.12	2.70	6.88
	255-285	0.07	0.01		0.00	0.00	0.00	0.02	0.12	1.36	4.03	3.07	0.60	9.29
	225-255	0.07	0.04	0.01	0.01	0.01	0.01	0.12	1.14	10.37	5.63	1.55	0.37	19.31
	195-225	0.04	0.04	0.02	0.02	0.03	0.06	0.69	4.79	3.50	0.84	0.36	0.14	10.52
	165-195	0.04	0.05	0.06	0.04	0.17	0.49	3.24	2.24	0.57	0.36	0.17	0.12	7.54
	135-165	0.09	0.12	0.16	0.22	0.83	1.85	0.98	0.33	0.17	0.10	0.06	0.07	4.96
	105-135	0.12	0.22	0.45	1.23	1.97	0.29	0.09	0.03	0.02	0.02	0.00	0.04	4.48
	75-105	0.10	0.84	3.15	3.14	0.12	0.01	0.00		0.01	0.01	0.01	0.02	7.42
	45-75	0.42	3.80	4.38	0.14	0.01			0.01			0.00	0.02	8.77
	15-45	3.20	4.57	0.10		0.00				0.01	0.00	0.01	0.09	7.99
	345-15	5.65	0.21	0.00		0.00				0.02	0.04	0.09	1.08	7.08
		10.63	9.90	8.34	4.81	3.15	2.71	5.14	8.69	16.22	12.01	9.08	9.34	100.00
9 m/s <=U ₁₀₀ <11 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

9 m/s <=U₁₀₀<11 m/s

Deltares

App. B.1.066

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.61							0.00	0.01	0.08	0.49	4.50	5.71
	285-315	0.00							0.00	0.12	0.87	3.48	1.79	6.28
	255-285	0.00		0.00				0.00	0.08	1.53	5.74	2.63	0.13	10.13
	225-255	0.02	0.02	0.00			0.02	0.07	1.36	15.50	4.87	0.90	0.09	22.86
	195-225	0.00	0.00	0.01	0.01	0.00	0.05	0.69	7.65	4.47	0.48	0.07	0.02	13.48
	165-195	0.01	0.01	0.02	0.04	0.05	0.35	4.78	2.83	0.45	0.13	0.06	0.03	8.77
	135-165	0.01	0.02	0.06	0.11	0.68	1.93	1.15	0.26	0.04	0.03	0.01	0.03	4.34
	105-135	0.04	0.06	0.13	1.14	1.88	0.25	0.03	0.02	0.01	0.01			3.57
	75-105	0.02	0.21	2.19	2.81	0.07	0.01		0.00			0.00	0.00	5.32
	45-75	0.07	2.92	3.88	0.04							0.01		6.92
	15-45	1.79	5.24	0.11								0.00	0.02	7.16
	345-15	4.24	0.12							0.00	0.02	0.04	1.03	5.45
		6.83	8.60	6.41	4.15	2.68	2.62	6.73	12.21	22.15	12.24	7.71	7.66	100.00
11 m/s <=U ₁₀₀ <13 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

11 m/s ≤ U₁₀₀ < 13 m/s

Deltares

App. B.1.067

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.26									0.05	0.35	4.73	5.39
	285-315							0.01	0.09	0.83	3.35	1.51	5.80	
	255-285							0.08	1.64	6.44	2.11	0.02	10.29	
	225-255		0.01					0.03	1.68	19.62	4.38	0.32	0.03	26.06
	195-225							0.56	11.61	4.95	0.30	0.04	0.02	17.49
	165-195	0.01				0.04	0.20	5.80	3.43	0.26	0.04	0.04		9.81
	135-165		0.01	0.04	0.05	0.14	1.81	0.95	0.06	0.01	0.01	0.01	0.03	3.11
	105-135			0.03	0.47	1.17	0.30	0.04	0.01					2.02
	75-105		0.04	1.34	2.95	0.08	0.01							4.42
	45-75	0.04	1.91	3.70	0.04									5.68
	15-45	0.86	5.12	0.09						0.01	0.01			6.09
	345-15	3.26	0.08							0.01		0.01	0.47	3.84
		4.44	7.17	5.20	3.51	1.43	2.32	7.38	16.88	26.58	12.06	6.23	6.81	100.00
13 m/s <=U ₁₀₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

13 m/s $\leq U_{100}$ < 15 m/s

Deltares

App. B.1.068

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.29									0.03	0.35	4.27	4.93
	285-315									0.05	0.67	3.09	1.26	5.07
	255-285								0.06	1.26	7.84	1.65	0.01	10.82
	225-255			0.01				0.01	1.97	26.11	3.30	0.06		31.46
	195-225							0.28	15.09	5.83	0.07			21.27
	165-195						0.09	5.46	4.29	0.23	0.05			10.11
	135-165					0.04	1.02	0.68	0.04				0.01	1.79
	105-135				0.15	0.44	0.21	0.01						0.80
	75-105			0.52	1.55	0.06								2.12
	45-75		0.83	2.88	0.04									3.75
	15-45	0.54	3.60	0.11									0.02	4.27
	345-15	2.91	0.02								0.02	0.01	0.63	3.60
		3.74	4.45	3.52	1.73	0.53	1.32	6.44	21.45	33.48	11.98	5.16	6.20	100.00
15 m/s ≤ U ₁₀₀ < 17 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

15 m/s ≤ U₁₀₀ < 17 m/s

Deltares

App. B.1.069

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.18								0.02	0.04	0.36	4.74	5.33
	285-315										0.77	3.53	0.78	5.08
	255-285								0.02	1.57	8.43	1.91	0.02	11.94
	225-255								1.71	32.09	2.23	0.04		36.06
	195-225							0.18	16.68	5.88			0.02	22.75
	165-195							5.86	4.60	0.20				10.65
	135-165						0.71	0.73	0.02					1.46
	105-135				0.14	0.20	0.12							0.46
	75-105				0.61									0.61
	45-75	0.02	0.07	0.78										0.87
	15-45	0.29	2.24	0.11									0.02	2.65
	345-15	1.50	0.12									0.02	0.50	2.14
		1.98	2.44	0.89	0.75	0.20	0.84	6.77	23.02	39.75	11.46	5.84	6.08	100.00
17 m/s $\leq U_{100}$ < 19 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

17 m/s $\leq U_{100}$ < 19 m/s

Deltares

App. B.1.070

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.20										0.34	2.85	3.39	
	285-315									0.03	0.60	4.36	0.81	5.80	
	255-285								0.03	1.91	6.88	1.21		10.03	
	225-255								2.58	39.38	1.54			43.51	
	195-225							0.10	16.87	6.57				23.55	
	165-195							5.50	4.76					10.27	
	135-165						0.27	0.47	0.03					0.77	
	105-135				0.13		0.17							0.30	
	75-105				0.37									0.37	
	45-75			0.07										0.07	
	15-45		0.64											0.64	
	345-15	0.87											0.44	1.31	
		1.07	0.64	0.07	0.50		0.44	6.07	24.29	47.90	9.02	5.90	4.09	100.00	
		19 m/s <=U ₁₀₀ <21 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

19 m/s ≤ U₁₀₀ < 21 m/s

Deltares

App. B.1.071

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345											0.31	2.68	2.99	
	285-315								0.08	0.08	0.47	3.54	0.79	4.96	
	255-285									1.34	6.45	1.10		8.89	
	225-255								1.26	41.46	0.87			43.59	
	195-225								19.20	7.79				26.99	
	165-195							5.43	5.04					10.46	
	135-165						0.16	0.08						0.24	
	105-135														
	75-105														
	45-75														
	15-45		0.47											0.47	
	345-15	0.63											0.79	1.42	
		0.63	0.47				0.16	5.51	25.57	50.67	7.79	4.96	4.25	100.00	
21 m/s <=U ₁₀₀ <23 m/s															Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

21 m/s ≤ U₁₀₀ < 23 m/s

Deltares

App. B.1.072

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												2.27	2.27
	285-315										1.59	4.54	0.68	6.80
	255-285									2.27	5.44	0.91		8.62
	225-255							0.91	44.90	0.68				46.49
	195-225							17.23	10.43					27.66
	165-195							2.72	4.99					7.71
	135-165							0.23						0.23
	105-135													
	75-105													
	45-75													
	15-45													
	345-15	0.23												0.23
		0.23						2.95	23.13	57.60	7.71	5.44	2.95	100.00
		23 m/s $\leq U_{100} < 25$ m/s												Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

23 m/s $\leq U_{100} < 25$ m/s

Deltares

App. B.1.073

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												0.61	0.61
	285-315										1.23	1.23	0.61	3.07
	255-285									1.23	7.36			8.59
	225-255							1.84	42.94					44.79
	195-225							25.15	7.98					33.13
	165-195						2.45	7.36						9.82
	135-165													
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
								2.45	34.36	52.15	8.59	1.23	1.23	100.00
25 m/s ≤ U ₁₀₀ < 27 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

25 m/s ≤ U₁₀₀ < 27 m/s

Deltares

App. B.1.074

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345												2.04	2.04	
	285-315											3.06		3.06	
	255-285									2.04	11.22			13.27	
	225-255								1.02	48.98	1.02			51.02	
	195-225								16.33	9.18				25.51	
	165-195								5.10					5.10	
	135-165														
	105-135														
	75-105														
	45-75														
	15-45														
	345-15														
									22.45	60.20	12.24	3.06	2.04	100.00	
U ₁₀₀ >= 27 m/s Total															

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 100m

U₁₀₀ >= 27 m/s

Deltares

App. B.1.075

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.17	0.12	0.03	0.01	0.00	0.00	0.01	0.02	0.08	0.23	0.67	4.06	6.40
	285-315	0.47	0.11	0.03	0.02	0.01	0.01	0.01	0.06	0.23	0.85	2.84	2.60	7.24
	255-285	0.46	0.12	0.05	0.02	0.02	0.02	0.03	0.16	1.38	4.05	2.62	1.46	10.38
	225-255	0.48	0.13	0.06	0.04	0.03	0.04	0.11	1.17	10.90	3.45	1.54	1.23	19.19
	195-225	0.43	0.11	0.11	0.06	0.09	0.13	0.63	5.65	2.93	0.69	0.50	0.75	12.08
	165-195	0.43	0.14	0.15	0.13	0.23	0.56	2.85	1.81	0.45	0.28	0.28	0.38	7.69
	135-165	0.52	0.26	0.27	0.30	0.65	1.20	0.65	0.22	0.16	0.15	0.15	0.32	4.84
	105-135	0.65	0.49	0.61	1.08	1.08	0.24	0.08	0.05	0.09	0.07	0.06	0.24	4.74
	75-105	0.87	1.16	2.07	1.77	0.10	0.03	0.01	0.02	0.04	0.04	0.09	0.26	6.44
	45-75	1.53	2.87	2.38	0.12	0.02	0.01	0.00	0.01	0.03	0.04	0.08	0.30	7.39
	15-45	3.30	3.11	0.17	0.01	0.00	0.01	0.00	0.01	0.03	0.06	0.08	0.46	7.24
	345-15	4.25	0.33	0.03	0.00	0.00	0.01	0.01	0.01	0.05	0.10	0.17	1.41	6.36
		14.56	8.95	5.95	3.55	2.25	2.26	4.38	9.17	16.37	10.00	9.07	13.48	100.00
All year														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

All Year

Deltares

App. B.1.076

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	2.82	0.69	0.15		0.01	0.02	0.06	0.08	0.31	0.51	0.72	2.56	7.92
	285-315	2.30	0.70	0.19	0.09	0.06	0.04	0.06	0.18	0.47	0.57	1.07	2.61	8.35
	255-285	2.43	0.74	0.24	0.08	0.03	0.08	0.06	0.26	0.65	0.92	1.50	2.85	9.84
	225-255	2.23	0.50	0.28	0.14	0.09	0.11	0.06	0.32	1.00	0.91	1.29	2.56	9.49
	195-225	2.03	0.57	0.45	0.17	0.19	0.16	0.20	0.36	0.77	0.64	0.88	1.86	8.29
	165-195	2.03	0.54	0.55	0.28	0.27	0.34	0.18	0.36	0.55	0.54	0.60	1.75	7.98
	135-165	1.98	0.57	0.67	0.24	0.19	0.23	0.16	0.19	0.59	0.51	0.50	1.37	7.20
	105-135	2.60	0.82	0.74	0.17	0.13	0.18	0.07	0.16	0.31	0.33	0.23	1.39	7.13
	75-105	2.95	1.21	0.93	0.23	0.14	0.03	0.02	0.05	0.29	0.24	0.55	1.64	8.26
	45-75	3.60	1.58	0.68	0.14	0.08	0.08	0.02	0.03	0.23	0.26	0.42	1.68	8.79
	15-45	3.91	1.41	0.39	0.09	0.02	0.02	0.03	0.10	0.15	0.37	0.54	1.78	8.81
	345-15	3.29	0.96	0.13	0.02	0.03	0.02	0.04	0.04	0.26	0.39	0.73	2.04	7.94
		32.16	10.30	5.40	1.64	1.23	1.30	0.96	2.15	5.57	6.19	9.02	24.08	100.00
1 m/s <=U ₁₅₀ <3 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

1 m/s <=U₁₅₀<3 m/s

Deltares

App. B.1.077

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	2.29	0.30	0.06	0.02	0.01	0.01	0.02	0.01	0.20	0.42	0.86	3.55	7.75	
	285-315	1.44	0.39	0.07	0.03	0.04	0.01	0.06	0.13	0.37	0.83	1.72	3.81	8.90	
	255-285	1.57	0.33	0.09	0.08	0.07	0.05	0.10	0.22	0.79	1.40	2.27	3.57	10.54	
	225-255	1.42	0.37	0.17	0.13	0.08	0.05	0.12	0.44	1.40	1.36	1.86	2.99	10.39	
	195-225	1.35	0.23	0.30	0.16	0.18	0.19	0.34	0.65	1.27	0.86	0.92	2.11	8.56	
	165-195	1.16	0.33	0.30	0.27	0.39	0.50	0.59	0.58	0.56	0.53	0.60	0.83	6.63	
	135-165	1.42	0.52	0.56	0.44	0.55	0.65	0.30	0.24	0.24	0.30	0.39	0.81	6.40	
	105-135	1.97	1.16	1.14	0.65	0.52	0.41	0.13	0.06	0.19	0.19	0.15	0.55	7.12	
	75-105	2.42	1.96	1.55	0.49	0.11	0.11	0.04	0.08	0.08	0.13	0.21	0.70	7.89	
	45-75	4.19	2.37	1.07	0.16	0.04	0.03	0.01	0.02	0.07	0.10	0.28	0.85	9.18	
	15-45	4.85	1.64	0.36	0.01	0.00	0.02	0.00	0.02	0.11	0.14	0.20	1.63	9.00	
	345-15	3.79	0.64	0.07		0.00	0.02	0.01	0.03	0.10	0.31	0.36	2.29	7.65	
		27.86	10.24	5.74	2.45	2.00	2.07	1.73	2.48	5.38	6.55	9.82	23.69	100.00	
		3 m/s <=U ₁₅₀ <5 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

3 m/s <=U₁₅₀<5 m/s

Deltares

App. B.1.078

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.69	0.12	0.04	0.00	0.00	0.00	0.01	0.03	0.13	0.35	0.93	4.03	7.33
	285-315	0.59	0.06	0.03	0.03	0.01	0.01	0.01	0.07	0.28	0.89	2.44	3.66	8.09
	255-285	0.36	0.11	0.08	0.05	0.04	0.02	0.04	0.25	1.03	1.85	3.23	3.12	10.19
	225-255	0.61	0.16	0.09	0.04	0.05	0.09	0.16	0.71	2.97	2.30	2.60	2.54	12.34
	195-225	0.54	0.14	0.12	0.09	0.17	0.25	0.60	1.55	1.71	0.92	0.95	1.53	8.57
	165-195	0.60	0.22	0.22	0.22	0.34	0.90	1.03	0.81	0.62	0.30	0.45	0.59	6.29
	135-165	0.90	0.56	0.44	0.55	0.80	1.04	0.53	0.28	0.27	0.23	0.23	0.49	6.30
	105-135	1.02	1.03	1.02	1.53	0.98	0.28	0.13	0.09	0.16	0.07	0.12	0.28	6.72
	75-105	1.78	2.44	2.37	1.42	0.13	0.05	0.03	0.02	0.02	0.03	0.08	0.29	8.66
	45-75	3.24	3.61	1.42	0.17	0.04	0.01			0.02	0.04	0.10	0.40	9.05
	15-45	5.15	2.30	0.31	0.01	0.02	0.01	0.01	0.01	0.05	0.05	0.05	0.60	8.57
	345-15	4.79	0.59	0.04	0.01	0.01	0.01	0.00	0.01	0.04	0.10	0.21	2.10	7.90
		21.27	11.34	6.18	4.12	2.59	2.68	2.55	3.83	7.29	7.13	11.39	19.63	100.00
5 m/s <=U ₁₅₀ <7 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

5 m/s <=U₁₅₀<7 m/s

Deltares

App. B.1.079

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	1.24	0.05	0.01	0.00	0.00			0.02	0.05	0.27	0.81	4.55	7.02
	285-315	0.16	0.04	0.01	0.01	0.01	0.01		0.06	0.30	0.95	3.17	3.33	8.04
	255-285	0.14	0.03	0.03	0.01	0.01	0.01	0.02	0.19	1.50	3.49	3.52	1.65	10.58
	225-255	0.29	0.10	0.03	0.02	0.04	0.06	0.16	0.89	5.38	4.28	2.80	1.53	15.57
	195-225	0.16	0.07	0.09	0.06	0.14	0.24	0.85	2.73	2.16	1.10	0.72	0.71	9.02
	165-195	0.27	0.09	0.16	0.14	0.33	0.89	1.64	1.33	0.53	0.34	0.33	0.31	6.36
	135-165	0.31	0.30	0.35	0.51	1.05	1.06	0.77	0.33	0.14	0.15	0.10	0.18	5.26
	105-135	0.32	0.58	0.83	1.91	1.43	0.26	0.11	0.06	0.07	0.02	0.03	0.11	5.73
	75-105	0.54	1.77	2.78	1.99	0.19	0.02	0.02		0.01	0.01	0.03	0.06	7.43
	45-75	1.41	4.07	2.65	0.22	0.01	0.00			0.01	0.00	0.01	0.09	8.48
	15-45	4.93	3.23	0.12	0.01		0.00		0.00	0.01	0.01	0.04	0.16	8.51
	345-15	5.85	0.31	0.01		0.00			0.00	0.01	0.04	0.12	1.65	8.00
		15.61	10.64	7.08	4.87	3.21	2.56	3.58	5.61	10.18	10.68	11.67	14.30	100.00
7 m/s <=U ₁₅₀ <9 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

7 m/s <=U₁₅₀<9 m/s

Deltares

App. B.1.080

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.83	0.02		0.01					0.04	0.22	0.70	4.37	6.19
	285-315	0.06	0.01	0.00				0.00	0.04	0.20	0.91	3.32	2.78	7.33
	255-285	0.08	0.01	0.00	0.00	0.00	0.00	0.03	0.13	1.54	4.19	3.26	0.69	9.93
	225-255	0.07	0.04	0.01	0.01	0.01	0.02	0.14	1.30	9.59	5.71	1.70	0.47	19.06
	195-225	0.06	0.06	0.05	0.04	0.04	0.11	0.79	4.47	3.16	0.90	0.35	0.19	10.22
	165-195	0.05	0.07	0.08	0.09	0.28	0.65	3.04	1.84	0.51	0.39	0.24	0.11	7.37
	135-165	0.09	0.15	0.16	0.28	0.92	1.47	0.79	0.27	0.13	0.09	0.08	0.07	4.49
	105-135	0.13	0.27	0.57	1.38	1.71	0.23	0.08	0.02	0.02	0.02	0.00	0.06	4.48
	75-105	0.11	1.10	3.19	2.88	0.09	0.01			0.01	0.00	0.01	0.01	7.41
	45-75	0.50	4.00	3.95	0.11	0.02			0.00			0.00	0.02	8.61
	15-45	3.46	3.98	0.09					0.00	0.01	0.00	0.01	0.09	7.65
	345-15	5.72	0.16	0.00					0.00	0.02	0.03	0.09	1.23	7.26
		11.15	9.86	8.12	4.80	3.08	2.49	4.87	8.08	15.21	12.47	9.78	10.09	100.00
9 m/s <=U ₁₅₀ <11 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

9 m/s <=U₁₅₀<11 m/s

Deltares

App. B.1.081

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.61							0.01	0.03	0.08	0.52	4.44	5.68
	285-315	0.00							0.01	0.15	0.92	3.71	1.88	6.68
	255-285	0.00						0.00	0.12	1.75	5.69	2.61	0.17	10.34
	225-255	0.05	0.02	0.01		0.00	0.01	0.10	1.57	14.48	4.70	0.85	0.16	21.96
	195-225	0.01	0.00	0.02	0.02	0.02	0.07	0.89	7.69	3.90	0.51	0.12	0.06	13.32
	165-195	0.01	0.04	0.06	0.05	0.12	0.51	4.65	2.35	0.41	0.14	0.07	0.05	8.47
	135-165	0.05	0.06	0.10	0.21	0.95	2.01	0.98	0.26	0.08	0.05		0.04	4.80
	105-135	0.04	0.09	0.39	1.32	1.75	0.18	0.02	0.02	0.00	0.02		0.01	3.84
	75-105	0.05	0.37	2.55	2.69	0.05	0.01		0.00			0.00		5.74
	45-75	0.11	3.27	3.40	0.05							0.00		6.84
	15-45	2.08	4.57	0.08								0.00	0.02	6.75
	345-15	4.32	0.11							0.01	0.03	0.05	1.07	5.58
		7.34	8.54	6.61	4.35	2.90	2.79	6.64	12.03	20.82	12.13	7.94	7.91	100.00
11 m/s <=U ₁₅₀ <13 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

11 m/s ≤ U₁₅₀ < 13 m/s

Deltares

App. B.1.082

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.26									0.07	0.44	4.76	5.53
	285-315								0.02	0.10	0.93	3.33	1.47	5.85
	255-285								0.08	2.03	6.56	2.28	0.03	10.99
	225-255	0.01	0.03				0.02	0.06	1.72	18.74	4.44	0.46	0.05	25.53
	195-225	0.01			0.01		0.02	0.75	10.42	4.35	0.28	0.04	0.01	15.89
	165-195	0.01	0.01	0.01	0.02	0.07	0.31	5.67	2.78	0.27	0.07	0.03	0.01	9.24
	135-165	0.01	0.01	0.05	0.05	0.40	2.06	0.83	0.09	0.01		0.01	0.02	3.53
	105-135		0.02	0.12	0.85	1.24	0.20	0.04	0.01	0.01				2.49
	75-105	0.01	0.10	2.03	2.87	0.05	0.01							5.06
	45-75	0.05	2.44	3.41	0.04									5.95
	15-45	1.17	4.77	0.06						0.01			0.01	6.01
	345-15	3.30	0.07							0.01		0.02	0.54	3.94
		4.81	7.45	5.68	3.84	1.75	2.63	7.34	15.12	25.52	12.34	6.62	6.89	100.00
13 m/s <=U ₁₅₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

13 m/s ≤ U₁₅₀ < 15 m/s

Deltares

App. B.1.083

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.23									0.03	0.30	3.99	4.55
	285-315									0.05	0.63	3.01	1.14	4.83
	255-285								0.07	1.42	7.62	1.59	0.01	10.71
	225-255			0.01				0.01	2.18	25.09	3.32	0.16		30.77
	195-225							0.72	14.55	5.12	0.13	0.04	0.02	20.58
	165-195					0.02	0.20	5.90	3.88	0.19	0.03			10.22
	135-165			0.01	0.04	0.08	1.38	0.68	0.04		0.01		0.04	2.26
	105-135			0.03	0.29	0.76	0.25	0.01						1.33
	75-105		0.04	0.92	1.71	0.04								2.70
	45-75	0.01	1.24	2.98	0.04									4.26
	15-45	0.61	3.72	0.04							0.01		0.02	4.40
	345-15	2.73	0.02								0.02	0.01	0.63	3.40
		3.57	5.00	3.99	2.07	0.89	1.83	7.32	20.72	31.88	11.78	5.10	5.83	100.00
15 m/s ≤ U ₁₅₀ < 17 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

15 m/s ≤ U₁₅₀ < 17 m/s

Deltares

App. B.1.084

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345	0.16								0.01	0.03	0.41	4.59	5.21
	285-315									0.01	0.74	2.91	0.83	4.50
	255-285								0.01	1.54	8.18	1.70	0.01	11.45
	225-255								2.17	32.09	2.62	0.04		36.92
	195-225							0.25	16.80	5.58	0.04			22.68
	165-195						0.03	5.65	3.80	0.16				9.64
	135-165						0.77	0.65	0.01					1.43
	105-135				0.13	0.25	0.13	0.01						0.53
	75-105			0.04	0.53	0.01								0.59
	45-75	0.01	0.28	1.39										1.69
	15-45	0.25	2.69	0.10									0.01	3.06
	345-15	1.70	0.13									0.01	0.44	2.29
		2.13	3.11	1.54	0.67	0.27	0.93	6.57	22.81	39.39	11.61	5.09	5.89	100.00
		17 m/s <=U ₁₅₀ <19 m/s												Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

17 m/s $\leq U_{150}$ < 19 m/s

Deltares

App. B.1.085

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345	0.16										0.30	2.48	2.94	
	285-315									0.03	0.74	4.28	0.71	5.75	
	255-285								0.03	1.88	7.22	1.31		10.44	
	225-255								2.45	37.94	2.18			42.57	
	195-225							0.11	18.32	4.96			0.03	23.41	
	165-195							5.75	4.55	0.03				10.33	
	135-165						0.38	0.57	0.03					0.98	
	105-135				0.22	0.05	0.14							0.41	
	75-105				0.41									0.41	
	45-75		0.11	0.22										0.33	
	15-45	0.05	1.09											1.14	
	345-15	0.95											0.33	1.28	
		1.17	1.20	0.22	0.63	0.05	0.52	6.43	25.37	44.84	10.14	5.89	3.54	100.00	
		19 m/s <=U ₁₅₀ <21 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

19 m/s ≤ U₁₅₀ < 21 m/s

Deltares

App. B.1.086

		MWD (° N)													
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345		
Wind direction (° N)	315-345											0.28	2.64	2.92	
	285-315							0.06	0.06	0.51	3.04	0.62	4.27		
	255-285								1.57	5.51	1.18	8.27			
	225-255							1.91	42.41	1.07	45.39				
	195-225							19.91	6.75	26.66					
	165-195						5.74	4.61	10.35						
	135-165					0.17	0.11	0.28							
	105-135														
	75-105														
	45-75														
	15-45		0.51									0.51			
	345-15	0.62											0.73	1.35	
		0.62	0.51				0.17	5.85	26.49	50.79	7.09	4.50	3.99	100.00	
		21 m/s <=U ₁₅₀ <23 m/s													Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

21 m/s $\leq U_{150} < 23$ m/s

Deltares

App. B.1.087

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												1.44	1.44
	285-315										1.15	4.31	0.14	5.60
	255-285									1.58	5.46	0.43		7.47
	225-255								1.29	50.14	0.43			51.87
	195-225								19.25	7.76				27.01
	165-195							2.44	3.88					6.32
	135-165													
	105-135													
	75-105													
	45-75													
	15-45													
	345-15	0.14											0.14	0.29
		0.14						2.44	24.43	59.48	7.04	4.74	1.72	100.00
23 m/s $\leq U_{150}$ < 25 m/s														Total

Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

23 m/s $\leq U_{150}$ < 25 m/s

Deltares

App. B.1.088

		MWD (° N)												
		345-15	15-45	45-75	75-105	105-135	135-165	165-195	195-225	225-255	255-285	285-315	315-345	
Wind direction (° N)	315-345												0.75	0.75
	285-315										0.38	0.75	1.13	2.26
	255-285									3.02	6.79	0.38		10.19
	225-255							1.51	48.68	0.38				50.57
	195-225							20.75	7.17					27.92
	165-195						3.77	4.15						7.92
	135-165						0.38							0.38
	105-135													
	75-105													
	45-75													
	15-45													
	345-15													
								4.15	26.42	58.87	7.55	1.13	1.89	100.00
25 m/s $\leq U_{150} < 27$ m/s														Total

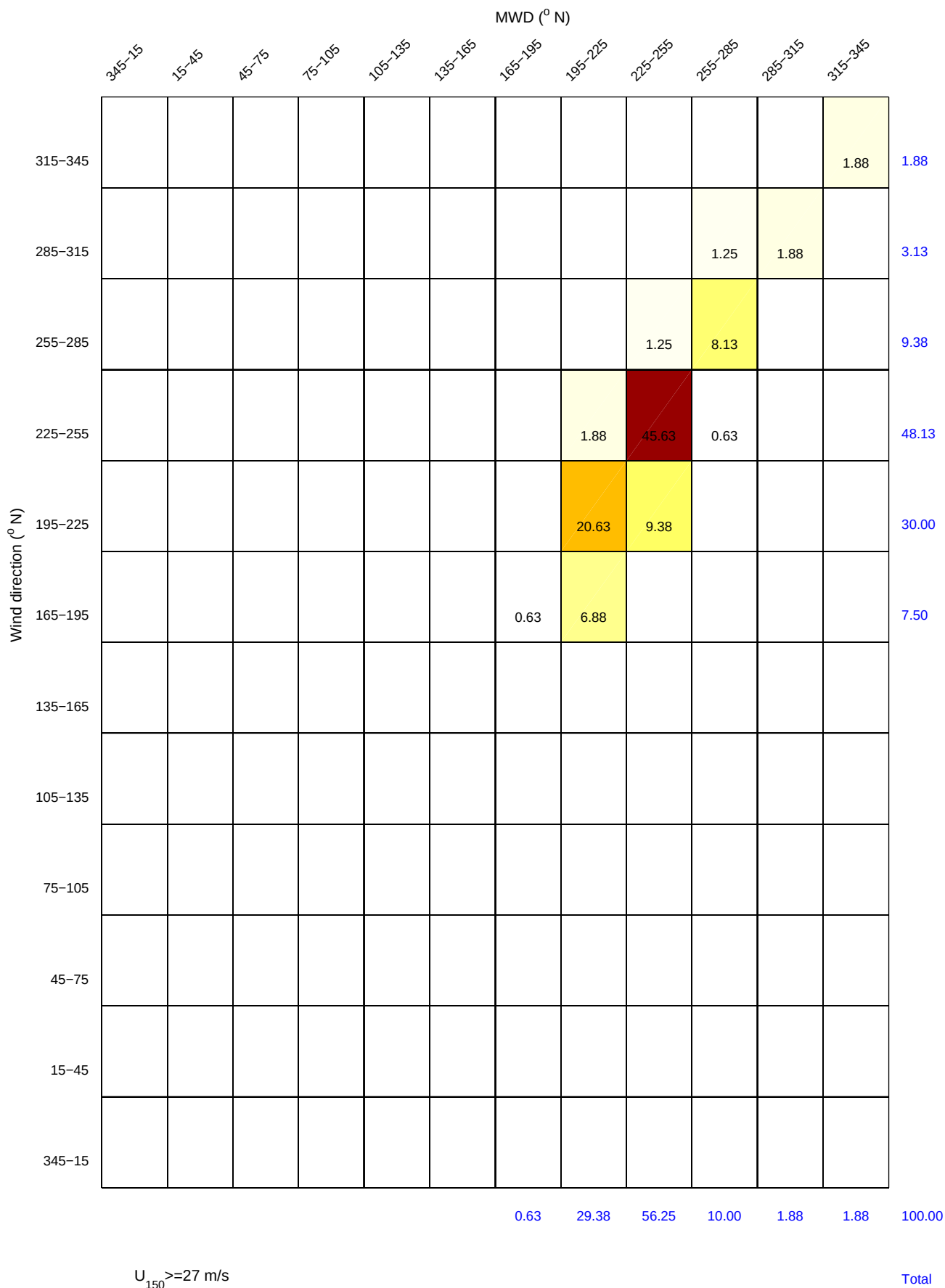
Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

25 m/s $\leq U_{150} < 27$ m/s

Deltares

App. B.1.089



Joint Occurrence table of wind direction vs. wave direction
Nautical convention: coming from, clockwise from North

Height: 150m

U₁₅₀ >= 27 m/s

Deltares

App. B.1.090

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
Wind direction (° N)	315-345	0.46	1.46	1.48	1.06	0.71	0.38	0.29	0.14	0.11	0.05	0.02	0.02	0.01		6.20
	285-315	0.47	1.55	1.87	1.15	0.74	0.42	0.25	0.15	0.11	0.03	0.01	0.01	0.00		6.79
	255-285	0.74	2.24	2.58	1.55	1.01	0.57	0.33	0.18	0.08	0.04	0.01	0.01	0.00	0.00	9.34
	225-255	1.16	4.94	4.81	2.74	1.80	1.18	0.75	0.42	0.16	0.07	0.02	0.01	0.00	0.00	18.07
	195-225	1.13	3.87	3.10	1.90	1.22	0.66	0.34	0.19	0.06	0.02	0.01				12.51
	165-195	1.04	3.09	1.88	1.02	0.54	0.28	0.14	0.05	0.01		0.00				8.06
	135-165	1.15	2.47	0.90	0.26	0.08	0.04	0.01	0.00							4.89
	105-135	1.19	2.53	0.78	0.20	0.04	0.01	0.01								4.75
	75-105	1.34	3.10	1.30	0.49	0.22	0.07	0.01								6.53
	45-75	1.34	3.39	1.87	0.75	0.36	0.10	0.03	0.01							7.85
	15-45	1.13	2.98	2.39	0.97	0.44	0.15	0.07	0.03	0.01	0.01	0.00				8.18
	345-15	0.70	1.98	1.80	1.15	0.57	0.31	0.17	0.08	0.04	0.02	0.00	0.00			6.82
		11.87	33.60	24.76	13.24	7.73	4.18	2.41	1.26	0.58	0.24	0.08	0.05	0.01	0.00	100.00
All year																Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 10m

All Year

Deltares

App. B.2.001

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345	2.31	3.28	0.93	0.15												6.66
	285-315	2.43	3.34	0.99	0.22												6.97
	255-285	3.63	3.83	0.90	0.13	0.01											8.49
	225-255	4.24	4.40	0.82	0.11	0.01	0.01										9.58
	195-225	4.40	4.23	0.68	0.04												9.36
	165-195	4.21	3.78	0.40	0.02												8.42
	135-165	4.32	3.04	0.30	0.06	0.01	0.01										7.73
	105-135	4.06	3.15	0.46	0.06	0.01											7.74
	75-105	4.82	3.73	0.53	0.06												9.15
	45-75	4.41	4.05	0.70	0.04	0.01											9.21
	15-45	3.95	3.81	0.98	0.08	0.01											8.83
	345-15	3.35	3.52	0.87	0.11	0.01											7.85
		46.12	44.17	8.57	1.07	0.05	0.02										100.00
		1 m/s <=U ₁₀ <3 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 10m						
											1 m/s <=U ₁₀ <3 m/s						
Deltares													App. B.2.002				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	1.07	2.92	1.70	0.41	0.04											6.14
	285-315	1.08	3.34	1.90	0.46	0.05											6.83
	255-285	1.74	4.37	1.86	0.30	0.01	0.00										8.28
	225-255	3.17	6.40	1.61	0.15	0.00											11.34
	195-225	2.97	5.52	1.02	0.06	0.01											9.58
	165-195	2.70	3.85	0.49	0.03												7.07
	135-165	2.95	3.51	0.30	0.03												6.78
	105-135	3.34	4.01	0.40	0.01												7.76
	75-105	3.58	4.70	0.51	0.03	0.00											8.83
	45-75	3.85	5.30	0.92	0.08												10.16
	15-45	3.44	4.83	1.39	0.08	0.02											9.75
	345-15	1.78	3.59	1.88	0.22	0.02											7.49
		31.66	52.33	13.98	1.86	0.16	0.00										100.00
		3 m/s <=U ₁₀ <5 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 10m

3 m/s <=U₁₀<5 m/s

Deltares

App. B.2.003

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.18	2.42	2.60	1.15	0.18	0.00	0.00									6.53
	285-315	0.12	2.48	3.00	1.08	0.24	0.01	0.00									6.93
	255-285	0.28	4.07	3.23	0.70	0.09	0.00			0.00							8.38
	225-255	0.86	9.11	3.16	0.32	0.02	0.00										13.48
	195-225	0.88	7.05	2.01	0.08	0.00											10.02
	165-195	0.76	5.22	0.77	0.09	0.00											6.85
	135-165	1.06	4.32	0.52	0.03												5.92
	105-135	1.03	4.61	0.55	0.01	0.00											6.21
	75-105	1.20	6.39	1.01	0.05	0.00											8.65
	45-75	1.24	6.39	1.58	0.15	0.02											9.39
	15-45	0.76	5.50	2.88	0.37	0.03	0.00										9.55
	345-15	0.28	3.63	3.03	1.04	0.12	0.01										8.09
		8.64	61.20	24.32	5.07	0.72	0.03	0.01		0.00							100.00
		5 m/s <=U ₁₀ <7 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 10m

5 m/s <=U₁₀<7 m/s

Deltares

App. B.2.004

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345	0.01	0.85	2.44	1.99	0.78	0.09	0.01									6.17	
	285-315	0.00	0.88	3.53	1.80	0.71	0.10	0.02									7.03	
	255-285	0.01	1.85	5.32	1.85	0.38	0.04										9.45	
	225-255	0.07	7.55	8.71	1.20	0.10	0.02										17.66	
	195-225	0.03	5.44	4.50	0.35	0.03											10.36	
	165-195	0.02	4.83	2.40	0.12												7.37	
	135-165	0.05	3.41	1.15	0.05												4.66	
	105-135	0.04	3.23	1.08	0.02	0.01											4.37	
	75-105	0.04	3.67	2.48	0.14	0.01											6.34	
	45-75	0.05	4.52	3.84	0.69	0.02											9.12	
	15-45	0.01	3.75	4.69	1.02	0.09	0.01	0.00									9.57	
	345-15	0.01	1.66	3.30	2.27	0.60	0.07	0.01	0.00								7.90	
		0.35	41.64	43.45	11.49	2.71	0.33	0.03	0.00								100.00	
		7 m/s <=U ₁₀ <9 m/s															Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 10m							
											7 m/s <=U ₁₀ <9 m/s							
Deltares													App. B.2.005					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345		0.12	1.09	2.11	1.99	0.70	0.18	0.03								6.22
	285-315		0.13	1.66	2.60	1.73	0.61	0.16	0.01								6.91
	255-285		0.12	3.78	4.15	1.58	0.24	0.02	0.00								9.90
	225-255	0.01	2.22	12.50	6.24	0.90	0.05										21.92
	195-225	0.00	1.36	8.63	3.04	0.19	0.01										13.23
	165-195		1.30	5.99	0.88	0.04	0.00										8.21
	135-165		0.91	2.69	0.23												3.83
	105-135	0.01	0.56	2.03	0.38	0.01											2.99
	75-105		0.41	3.29	1.16	0.05											4.91
	45-75		0.52	4.20	2.39	0.32	0.01	0.00									7.44
	15-45		0.47	4.04	2.47	0.68	0.05	0.02									7.73
	345-15		0.19	1.56	2.61	1.65	0.63	0.06	0.00								6.72
		0.02	8.31	51.45	28.27	9.14	2.30	0.45	0.05								100.00
		9 m/s <=U ₁₀ <11 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 10m						
											9 m/s <=U ₁₀ <11 m/s						
Deltares													App. B.2.006				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345		0.01	0.16	0.80	1.89	1.66	1.26	0.22	0.03	0.01						6.04
	285-315		0.01	0.20	1.30	2.40	1.84	0.67	0.15	0.04							6.61
	255-285			0.52	3.79	4.58	1.47	0.20	0.01								10.58
	225-255		0.23	4.23	12.30	7.17	1.25	0.07	0.02								25.26
	195-225		0.07	3.66	10.49	3.55	0.20	0.01									17.98
	165-195		0.03	2.78	6.23	0.75	0.03	0.01									9.83
	135-165		0.02	1.09	1.51	0.10											2.72
	105-135		0.01	0.58	0.96	0.16											1.70
	75-105		0.01	0.39	2.32	1.19	0.09										3.98
	45-75		0.01	0.37	2.05	1.93	0.13	0.01	0.01								4.50
	15-45		0.01	0.77	2.89	2.04	0.44	0.05	0.02								6.24
	345-15			0.10	1.04	1.50	1.15	0.67	0.08	0.01							4.56
		0.39	14.85	45.69	27.25	8.28	2.95	0.51	0.08	0.01						100.00	
11 m/s <=U ₁₀ <13 m/s		Total															
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 10m						
											11 m/s <=U ₁₀ <13 m/s						
Deltares													App. B.2.007				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
Wind direction (° N)	315-345				0.12	0.50	1.16	1.66	1.19	0.78	0.15	0.03	0.03	0.01		5.62
	285-315			0.01	0.16	0.75	1.59	1.62	0.98	0.34	0.05					5.51
	255-285		0.01	0.03	0.36	3.11	4.95	2.03	0.30	0.04						10.82
	225-255			0.24	3.42	12.87	10.96	2.44	0.14	0.03						30.10
	195-225		0.01	0.38	4.16	11.31	4.37	0.33	0.03							20.59
	165-195			0.08	3.14	6.07	1.06	0.08	0.01							10.44
	135-165			0.01	0.61	0.85	0.06									1.53
	105-135		0.01	0.05	0.43	0.23	0.06	0.01								0.79
	75-105			0.02	0.45	1.38	0.82	0.02								2.69
	45-75			0.01	0.23	1.72	1.36	0.22	0.01							3.54
	15-45			0.03	0.48	1.65	1.42	0.59	0.12	0.05						4.32
	345-15				0.07	0.51	1.19	1.16	0.79	0.29	0.02					4.04
		0.03	0.85	13.64	40.96	29.00	10.15	3.57	1.52	0.23	0.03	0.03	0.01			100.00
13 m/s <=U ₁₀ <15 m/s																Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 10m

13 m/s ≤ U₁₀ < 15 m/s

Deltares

App. B.2.008

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
Wind direction (° N)	315-345					0.21	0.40	0.85	1.17	1.49	1.11	0.28	0.21	0.02		5.74
	285-315				0.02	0.30	0.59	1.40	2.04	1.44	0.21	0.13	0.02			6.14
	255-285				0.02	0.45	2.06	5.40	3.91	0.77	0.17					12.79
	225-255				0.40	2.76	10.75	15.32	5.48	0.49	0.04					35.22
	195-225			0.02	0.40	3.34	11.09	6.61	0.83	0.04						22.32
	165-195				0.13	2.32	6.10	1.89	0.09							10.54
	135-165					0.42	0.94	0.09								1.45
	105-135					0.11	0.21	0.19								0.51
	75-105						0.30	0.30								0.60
	45-75				0.06		0.08	0.34	0.21							0.68
	15-45					0.08	0.25	0.68	0.55	0.15	0.09					1.79
	345-15					0.02	0.21	0.60	0.51	0.53	0.28	0.06				2.21
		0.02	1.02	10.01	32.96	33.67	14.79	4.91	1.91	0.47	0.23	0.02				100.00
15 m/s <=U ₁₀ <17 m/s																Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 10m

15 m/s ≤ U₁₀ < 17 m/s

Deltares

App. B.2.009

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345								0.37	0.93	0.56	0.19	0.37	1.30			3.72
	285-315				0.19	0.19	0.19	0.19	2.60	2.23	0.93	1.12	0.19				7.81
	255-285						0.37	0.93	2.60	5.58	0.93	0.37					10.78
	225-255						0.93	7.06	18.96	13.38	2.04						42.38
	195-225				0.56	1.86	14.13	7.43	1.49	0.19							25.65
	165-195					0.93	5.39	2.04									8.36
	135-165						0.19										0.19
	105-135																
	75-105																
	45-75																
	15-45										0.19						0.19
	345-15							0.19	0.19			0.56					0.93
		0.19 0.74 4.28 28.44 34.76 23.23 4.46 2.42 1.49														100.00	
19 m/s <=U ₁₀ <21 m/s																Total	

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 10m

19 m/s ≤ U₁₀ < 21 m/s

Deltares

App. B.2.011

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345													1.27			1.27	
	285-315						0.64		1.27	0.64	1.27	1.27	0.64				5.73	
	255-285						0.64		0.64	5.73	1.91	5.10					14.01	
	225-255				0.64		0.64	1.27	8.92	19.11	7.01	1.27					38.85	
	195-225							3.82	9.55	12.10	3.82						29.30	
	165-195							2.55	7.64		0.64						10.83	
	135-165																	
	105-135																	
	75-105																	
	45-75																	
	15-45																	
	345-15																	
		0.641.917.6428.0337.5814.657.641.91100.00																
21 m/s <=U ₁₀ <23 m/s																Total		
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 10m						
												21 m/s <=U ₁₀ <23 m/s						
Deltares														App. B.2.012				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345													3.85			3.85	
	285-315											1.92	1.92				3.85	
	255-285										5.77	1.92	1.92	1.92			11.54	
	225-255										11.54	26.92	13.46				51.92	
	195-225										11.54	11.54					23.08	
	165-195											5.77					5.77	
	135-165																	
	105-135																	
	75-105																	
	45-75																	
	15-45																	
	345-15																	
										28.85	48.08	17.31	5.77					100.00
23 m/s <=U ₁₀ <25 m/s																		Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 10m						
												23 m/s <=U ₁₀ <25 m/s						
Deltares															App. B.2.013			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
Wind direction (° N)	315-345	0.36	1.16	1.27	0.90	0.65	0.38	0.29	0.14	0.11	0.05	0.03	0.02	0.01		5.37
	285-315	0.49	1.48	1.80	1.10	0.75	0.41	0.25	0.15	0.11	0.03	0.01	0.01	0.00		6.58
	255-285	0.82	2.14	2.36	1.51	0.98	0.58	0.34	0.19	0.08	0.04	0.01	0.01	0.00	0.00	9.07
	225-255	1.63	5.72	5.19	3.04	1.99	1.27	0.80	0.46	0.17	0.07	0.02	0.01	0.00	0.00	20.39
	195-225	1.42	4.32	3.33	1.94	1.23	0.67	0.34	0.17	0.06	0.01	0.01				13.50
	165-195	1.34	3.64	2.39	1.32	0.60	0.28	0.13	0.04	0.02	0.00					9.75
	135-165	1.21	2.63	0.97	0.27	0.07	0.03	0.01								5.19
	105-135	1.14	2.35	0.72	0.19	0.03	0.01	0.01								4.45
	75-105	1.13	2.97	1.24	0.46	0.22	0.07	0.01								6.10
	45-75	1.34	3.54	2.03	0.77	0.36	0.10	0.02	0.01							8.16
	15-45	0.76	2.81	2.51	1.02	0.46	0.16	0.07	0.02	0.01	0.01	0.00				7.84
	345-15	0.22	0.84	0.94	0.71	0.40	0.22	0.14	0.07	0.03	0.01	0.00	0.00			3.60
		11.87	33.60	24.76	13.24	7.73	4.18	2.41	1.26	0.58	0.24	0.08	0.05	0.01	0.00	100.00
All year																Total

Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 70m		All Year	
Deltares														App. B.2.016	

		H _s (m)															Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
315-345	1.61	1.83	0.44	0.09													3.98	
285-315	2.46	2.77	0.60	0.10													5.93	
255-285	3.90	3.82	0.95	0.13		0.01											8.80	
225-255	5.18	5.32	1.20	0.23	0.01	0.01											11.94	
195-225	4.86	5.77	1.37	0.10	0.02	0.01											12.13	
165-195	5.80	6.28	1.31	0.19													13.58	
135-165	4.56	3.90	0.64	0.09													9.19	
105-135	3.29	3.23	0.56	0.04													7.13	
75-105	3.84	3.90	0.77	0.08													8.58	
45-75	3.84	4.79	1.30	0.13	0.01												10.06	
15-45	2.42	3.58	0.79	0.09	0.01												6.88	
345-15	0.69	0.87	0.22	0.01	0.01												1.80	
		42.45	46.05	10.15	1.28	0.05	0.03										100.00	
1 m/s <=U ₇₀ <3 m/s																	Total	

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 70m

1 m/s <=U₇₀<3 m/s

Deltares

App. B.2.017

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	1.26	3.01	1.28	0.26	0.01											5.83
	285-315	1.81	3.66	1.46	0.32	0.04											7.29
	255-285	2.79	4.62	1.73	0.35	0.04	0.00										9.54
	225-255	4.34	6.94	1.78	0.26	0.02											13.34
	195-225	3.69	5.16	1.33	0.17	0.00											10.35
	165-195	3.69	5.16	1.48	0.22	0.01											10.56
	135-165	2.78	3.34	0.42	0.07												6.61
	105-135	2.81	3.39	0.38	0.02												6.61
	75-105	2.80	4.31	0.61	0.04												7.77
	45-75	3.48	5.41	1.25	0.07	0.00											10.22
	15-45	2.44	4.79	1.70	0.14	0.01											9.09
	345-15	0.74	1.41	0.58	0.05	0.01											2.80
		32.64	51.20	14.01	1.98	0.16	0.00										100.00
3 m/s <=U ₇₀ <5 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 70m

3 m/s <=U₇₀<5 m/s

Deltares

App. B.2.018

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345	0.42	2.36	2.32	0.76	0.10											5.96	
	285-315	0.40	2.97	2.68	0.84	0.18	0.00		0.00								7.07	
	255-285	0.90	4.14	2.45	0.61	0.10	0.00										8.20	
	225-255	3.09	9.20	2.68	0.29	0.02											15.29	
	195-225	2.37	6.50	1.41	0.12	0.02											10.42	
	165-195	1.53	5.06	1.74	0.51	0.09	0.00										8.94	
	135-165	1.89	3.99	0.55	0.04												6.47	
	105-135	1.88	3.87	0.48	0.01	0.00											6.25	
	75-105	1.66	5.45	0.77	0.03												7.92	
	45-75	2.46	5.83	1.65	0.13	0.01											10.08	
	15-45	1.35	4.90	2.83	0.30	0.01											9.39	
	345-15	0.30	1.79	1.44	0.44	0.05											4.01	
		18.24	56.07	21.01	4.08	0.59	0.01	0.00									100.00	
		5 m/s <=U ₇₀ <7 m/s															Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 70m							
											5 m/s <=U ₇₀ <7 m/s							
Deltares													App. B.2.019					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.08	1.26	2.38	1.32	0.43	0.04	0.01									5.51
	285-315	0.06	1.61	3.56	1.39	0.55	0.04	0.01									7.21
	255-285	0.14	2.73	4.01	1.12	0.18	0.02	0.01									8.22
	225-255	0.96	10.06	5.80	0.68	0.04	0.01										17.55
	195-225	0.87	6.79	2.82	0.16	0.01											10.65
	165-195	0.82	5.45	2.34	1.00	0.17	0.03										9.82
	135-165	0.75	3.81	0.72	0.05	0.01											5.34
	105-135	0.96	3.65	0.64	0.04												5.28
	75-105	0.88	4.45	1.59	0.09	0.01											7.01
	45-75	1.02	5.38	2.76	0.44	0.02											9.62
	15-45	0.34	4.20	3.88	0.84	0.08	0.00										9.35
	345-15	0.09	1.32	1.75	1.08	0.20	0.02										4.45
		6.97	50.70	32.25	8.21	1.70	0.16	0.02									100.00
7 m/s <=U ₇₀ <9 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 70m

7 m/s <=U₇₀<9 m/s

Deltares

App. B.2.020

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.01	0.34	1.39	1.87	1.20	0.36	0.06	0.00								5.23
	285-315		0.36	2.73	2.25	1.14	0.30	0.04									6.82
	255-285	0.01	0.79	4.37	2.50	0.80	0.11										8.57
	225-255	0.23	6.21	10.74	2.39	0.31	0.04										19.93
	195-225	0.26	5.04	5.83	0.58	0.02		0.00									11.74
	165-195	0.20	3.88	3.68	0.94	0.32	0.07	0.01									9.11
	135-165	0.37	2.91	1.81	0.08	0.01	0.00										5.18
	105-135	0.38	2.05	1.58	0.09												4.11
	75-105	0.43	2.44	3.24	0.45	0.03											6.58
	45-75	0.30	2.98	4.28	1.39	0.08											9.02
	15-45	0.05	2.29	4.56	1.76	0.28	0.03	0.00									8.97
	345-15	0.02	0.51	1.63	1.62	0.82	0.12	0.02									4.74
		2.26	29.78	45.85	15.92	5.01	1.03	0.14	0.00								100.00
		9 m/s <=U ₇₀ <11 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 70m						
											9 m/s <=U ₇₀ <11 m/s						
Deltares													App. B.2.021				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345		0.02	0.57	1.45	1.89	1.10	0.46	0.05								5.53
	285-315		0.05	0.73	2.09	1.94	0.90	0.35	0.04								6.09
	255-285		0.07	2.22	4.56	2.13	0.49	0.05	0.00								9.53
	225-255	0.04	1.84	11.59	9.43	1.61	0.11	0.00									24.62
	195-225	0.04	1.50	8.86	4.39	0.33	0.02										15.14
	165-195	0.04	0.98	5.68	2.03	0.55	0.22	0.01	0.00								9.52
	135-165	0.07	0.90	2.52	0.65	0.01	0.01										4.16
	105-135	0.07	0.68	1.33	0.71	0.01											2.80
	75-105	0.04	0.70	1.48	1.86	0.22											4.30
	45-75	0.03	1.28	2.52	2.43	0.81	0.02	0.00									7.09
	15-45	0.00	0.64	2.79	2.60	1.05	0.16	0.01									7.25
	345-15		0.04	0.47	1.31	1.22	0.74	0.18	0.03								3.97
		0.32	8.70	40.75	33.50	11.77	3.77	1.07	0.12								100.00
		11 m/s <=U ₇₀ <13 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 70m						
											11 m/s <=U ₇₀ <13 m/s						
Deltares													App. B.2.022				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345		0.01	0.04	0.44	1.28	1.49	1.54	0.37	0.12	0.02	0.01					5.32
	285-315		0.01	0.10	0.72	1.94	1.83	0.78	0.27	0.06							5.71
	255-285			0.27	2.42	4.72	2.07	0.38	0.03								9.88
	225-255	0.01	0.35	3.75	12.51	9.27	1.64	0.09	0.03								27.64
	195-225	0.01	0.30	3.76	11.42	4.44	0.26	0.01									20.19
	165-195	0.01	0.13	1.71	5.90	1.34	0.28	0.21	0.03	0.01							9.63
	135-165		0.20	0.75	1.45	0.18											2.58
	105-135		0.11	0.30	0.68	0.25											1.34
	75-105		0.18	0.10	1.52	1.66	0.22										3.69
	45-75		0.18	0.62	1.54	2.17	0.35	0.02	0.01								4.88
	15-45		0.03	0.66	2.11	2.42	0.75	0.14	0.01								6.12
	345-15			0.02	0.37	0.81	0.83	0.73	0.23	0.02							3.01
		0.03	1.50	12.08	41.09	30.48	9.70	3.90	0.99	0.22	0.02	0.01					100.00
		13 m/s <=U ₇₀ <15 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 70m					
												13 m/s <=U ₇₀ <15 m/s					
Deltares														App. B.2.023			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345			0.01	0.06	0.51	0.91	1.24	1.41	1.04	0.21	0.02	0.04	0.01			5.46
	285-315				0.12	0.50	1.35	1.65	1.07	0.42	0.09						5.20
	255-285			0.07	0.31	2.58	5.02	2.40	0.48	0.04							10.90
	225-255		0.02	0.43	4.59	14.96	11.88	2.11	0.10	0.03							34.13
	195-225			0.63	5.01	12.22	4.06	0.24	0.02								22.19
	165-195		0.08	0.12	2.44	4.88	0.77	0.17	0.09	0.08	0.01						8.63
	135-165		0.02	0.01	0.51	0.83	0.07										1.43
	105-135			0.03	0.33	0.13	0.08	0.02									0.59
	75-105				0.15	0.87	0.76	0.02									1.81
	45-75		0.01	0.03	0.18	1.13	1.20	0.20	0.01								2.76
	15-45			0.03	0.61	1.18	1.33	0.75	0.15	0.03							4.09
	345-15				0.03	0.26	0.76	0.78	0.67	0.26	0.02						2.80
		0.13	1.37	14.34	40.04	28.20	9.59	4.01	1.91	0.33	0.02	0.04	0.01				100.00
15 m/s <=U ₇₀ <17 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 70m						
											15 m/s <=U ₇₀ <17 m/s						
Deltares													App. B.2.024				

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
Wind direction (° N)	315-345					0.14	0.35	0.95	1.00	1.28	1.10	0.32	0.14				5.28
	285-315				0.02	0.37	0.67	1.32	1.81	1.22	0.08	0.06	0.02				5.56
	255-285				0.02	0.51	2.03	5.14	3.39	0.73	0.16	0.02					12.00
	225-255			0.04	0.75	5.85	14.89	14.54	3.39	0.24	0.02						39.72
	195-225			0.04	0.85	5.69	11.88	4.41	0.32	0.02							23.21
	165-195		0.02	0.02	0.12	2.38	4.59	0.81	0.12	0.08	0.04						8.18
	135-165		0.02		0.04	0.28	0.81	0.10									1.26
	105-135					0.14	0.12	0.20									0.47
	75-105						0.26	0.30									0.57
	45-75				0.06	0.02	0.06	0.26	0.18								0.59
	15-45				0.02	0.14	0.26	0.59	0.51	0.14	0.04						1.71
	345-15					0.02	0.14	0.47	0.26	0.32	0.18	0.04					1.44
		0.04	0.10	1.89	15.54	36.07	29.10	10.99	4.04	1.62	0.45	0.16					100.00
17 m/s <=U ₇₀ <19 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 70m					
												17 m/s <=U ₇₀ <19 m/s					
Deltares														App. B.2.025			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345						0.12	0.41	0.21	0.45	0.66	0.95	0.78	0.25			3.82
	285-315					0.21	0.12	0.41	0.86	2.59	0.86	0.25	0.29	0.04			5.63
	255-285					0.21	0.53	1.97	4.03	2.67	0.62	0.12					10.15
	225-255				0.12	0.86	5.43	17.71	17.26	2.96	0.16						44.51
	195-225				0.04	0.82	6.58	11.96	5.01	0.82							25.24
	165-195				0.04	0.16	2.79	4.32	0.37	0.21	0.08						7.97
	135-165					0.04	0.37	0.16									0.58
	105-135						0.08	0.12									0.21
	75-105							0.29									0.29
	45-75																
	15-45							0.04	0.04	0.04	0.49						0.62
	345-15							0.25	0.16	0.16	0.29	0.12					0.99
		0.21 2.30 16.03 37.65 27.95 9.91 3.16 1.44 1.07 0.29														100.00	
19 m/s <=U ₇₀ <21 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 70m					
												19 m/s <=U ₇₀ <21 m/s					
Deltares														App. B.2.026			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345								0.11	0.22	0.45	0.45	0.78	0.45			2.46
	285-315					0.11	0.11	0.34	0.22	1.79	0.89	0.45	1.01				4.92
	255-285						0.11	0.45	2.01	3.24	2.46	0.67					8.94
	225-255						0.67	5.70	21.23	14.53	4.80	0.89					47.82
	195-225					0.11	1.45	7.71	13.63	4.69	0.22						27.82
	165-195							2.46	3.69	0.11							6.26
	135-165							0.22									0.22
	105-135																
	75-105																
	45-75																
	15-45										0.11	0.45					0.56
	345-15								0.22	0.45	0.22		0.11				1.01
		0.22 2.35 16.87 41.12 25.03 9.16 2.91 1.90 0.45														100.00	
21 m/s <=U ₇₀ <23 m/s																Total	

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 70m

21 m/s <=U₇₀<23 m/s

Deltares

App. B.2.027

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345													1.55			1.55
	285-315						0.31		3.11	2.48	1.24	0.62	0.31				8.07
	255-285						0.62	0.62	1.55	7.45	1.55	1.86					13.66
	225-255					0.31	0.93	6.21	20.50	15.53	2.48						45.96
	195-225					0.31	0.62	10.25	9.32	3.42	1.24						25.16
	165-195							3.11	2.48								5.59
	135-165																
	105-135																
	75-105																
	45-75																
	15-45																
	345-15																
		0.62 2.48 20.19 36.96 28.88 6.52 2.48 1.86														100.00	
23 m/s <=U ₇₀ <25 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 70m					
												23 m/s <=U ₇₀ <25 m/s					
Deltares														App. B.2.028			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345													0.98			0.98	
	285-315						0.98						0.98	0.98			2.94	
	255-285									3.92	1.96	2.94					8.82	
	225-255				0.98		0.98	1.96	8.82	23.53	12.75	3.92					52.94	
	195-225							2.94	12.75	9.80	2.94						28.43	
	165-195							2.94	2.94								5.88	
	135-165																	
	105-135																	
	75-105																	
	45-75																	
	15-45																	
	345-15																	
		0.981.967.8424.5137.2517.657.841.96100.00																
25 m/s <=U ₇₀ <27 m/s																Total		
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 70m						
												25 m/s <=U ₇₀ <27 m/s						
Deltares														App. B.2.029				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345																
	285-315									1.61	1.61	3.23	3.23				9.68
	255-285									1.61		3.23	1.61	6.45			12.90
	225-255							1.61	1.61	14.52	20.97	12.90	3.23	1.61			56.45
	195-225							1.61		4.84	14.52						20.97
	165-195																
	135-165																
	105-135																
	75-105																
	45-75																
	15-45																
	345-15																
																3.23 1.61 22.58 37.10 19.35 8.06 8.06 100.00	
U ₇₀ >= 27 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 70m						
											U ₇₀ >= 27 m/s						
Deltares													App. B.2.030				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345	0.48	1.47	1.50	1.06	0.71	0.39	0.30	0.14	0.11	0.05	0.03	0.02	0.01			6.26
	285-315	0.56	1.65	1.93	1.16	0.75	0.42	0.25	0.15	0.11	0.03	0.01	0.01	0.00			7.03
	255-285	0.93	2.44	2.63	1.57	1.02	0.58	0.33	0.19	0.07	0.04	0.01	0.01	0.00	0.00		9.83
	225-255	1.38	5.32	4.88	2.80	1.83	1.20	0.76	0.44	0.16	0.07	0.02	0.01	0.00	0.00		18.88
	195-225	1.13	3.72	3.02	1.86	1.20	0.63	0.33	0.18	0.06	0.02	0.01					12.15
	165-195	1.09	3.03	1.82	0.97	0.52	0.27	0.13	0.05	0.01		0.00					7.90
	135-165	1.18	2.40	0.87	0.25	0.07	0.03	0.01	0.00								4.80
	105-135	1.27	2.51	0.76	0.20	0.04	0.01	0.01									4.79
	75-105	1.18	3.17	1.32	0.49	0.23	0.07	0.01									6.47
	45-75	1.22	3.31	1.91	0.75	0.36	0.10	0.03	0.01								7.68
	15-45	0.89	2.76	2.34	0.97	0.44	0.15	0.07	0.03	0.01	0.01	0.00					7.67
	345-15	0.57	1.82	1.79	1.16	0.57	0.31	0.18	0.08	0.04	0.02	0.00	0.00				6.53
		11.87	33.60	24.76	13.24	7.73	4.18	2.41	1.26	0.58	0.24	0.08	0.05	0.01	0.00		100.00
All year																	Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 80m		All Year			
Deltares														App. B.2.031			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345	2.57	3.68	1.12	0.18												7.54
	285-315	2.83	3.73	1.22	0.24												8.01
	255-285	3.96	4.18	0.99	0.14												9.28
	225-255	4.28	4.26	0.90	0.13		0.02										9.58
	195-225	3.61	3.96	0.71	0.04												8.32
	165-195	3.79	3.36	0.50	0.04												7.70
	135-165	3.51	3.00	0.37	0.06	0.01	0.01										6.95
	105-135	3.89	3.40	0.44	0.10	0.02											7.85
	75-105	3.95	3.63	0.77	0.08												8.43
	45-75	3.73	4.42	0.81	0.06	0.01											9.02
	15-45	3.46	4.31	1.25	0.10	0.01											9.12
	345-15	2.89	4.06	1.12	0.13	0.01											8.20
		42.46	45.98	10.19	1.29	0.05	0.03										100.00
		1 m/s <=U ₈₀ <3 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 80m						
											1 m/s <=U ₈₀ <3 m/s						
Deltares													App. B.2.032				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345	1.51	3.64	1.84	0.44	0.05											7.48	
	285-315	2.02	4.21	1.92	0.48	0.04											8.68	
	255-285	3.06	4.97	1.74	0.33	0.02	0.00										10.13	
	225-255	3.40	5.69	1.48	0.15	0.00											10.71	
	195-225	3.11	4.41	0.92	0.06	0.00											8.50	
	165-195	3.07	3.59	0.36	0.03												7.05	
	135-165	3.05	2.94	0.29	0.03												6.31	
	105-135	2.93	3.82	0.40	0.01												7.16	
	75-105	2.96	4.41	0.50	0.04	0.00											7.91	
	45-75	3.05	4.86	1.05	0.09												9.06	
	15-45	2.72	4.68	1.53	0.10	0.02											9.05	
	345-15	1.87	3.85	1.98	0.23	0.01											7.94	
		32.74	51.07	14.03	1.99	0.16	0.00											100.00
		3 m/s <=U ₈₀ <5 m/s															Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 80m							
											3 m/s <=U ₈₀ <5 m/s							
Deltares													App. B.2.033					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.49	2.72	2.59	1.06	0.16											7.01
	285-315	0.49	3.15	2.86	0.92	0.19	0.01		0.00								7.62
	255-285	1.26	4.94	2.68	0.52	0.07											9.48
	225-255	2.66	7.93	2.31	0.24	0.02											13.15
	195-225	2.01	5.83	1.35	0.07	0.00											9.25
	165-195	1.45	4.11	0.50	0.07												6.13
	135-165	1.89	3.82	0.44	0.01												6.18
	105-135	2.13	4.04	0.53	0.01	0.00											6.71
	75-105	1.75	5.85	0.92	0.05												8.57
	45-75	2.26	5.38	1.38	0.11	0.01											9.14
	15-45	1.49	4.66	2.46	0.28	0.03											8.92
	345-15	0.54	3.42	3.02	0.76	0.09	0.00										7.84
		18.42	55.83	21.05	4.10	0.59	0.01		0.00								100.00
5 m/s ≤ U ₈₀ < 7 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 80m

5 m/s ≤ U₈₀ < 7 m/s

Deltares

App. B.2.034

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.09	1.48	2.70	1.57	0.47	0.04	0.01									6.36
	285-315	0.08	1.65	3.60	1.39	0.50	0.05	0.01									7.29
	255-285	0.26	3.41	4.58	1.13	0.16	0.01										9.56
	225-255	0.96	9.66	5.17	0.53	0.03	0.00										16.35
	195-225	0.72	6.19	2.56	0.10	0.01											9.57
	165-195	0.80	4.93	1.23	0.07	0.00											7.04
	135-165	0.95	3.51	0.63	0.02												5.11
	105-135	1.11	3.81	0.67	0.02	0.00											5.61
	75-105	0.90	4.79	1.66	0.09	0.01											7.46
	45-75	0.98	5.06	2.60	0.46	0.02											9.13
	15-45	0.31	4.08	3.58	0.67	0.07	0.01										8.72
	345-15	0.15	2.21	3.00	2.03	0.37	0.04										7.81
		7.32	50.81	31.97	8.09	1.64	0.15	0.02									100.00
7 m/s ≤ U ₈₀ < 9 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 80m

7 m/s ≤ U₈₀ < 9 m/s

Deltares

App. B.2.035

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345	0.02	0.40	1.54	2.09	1.31	0.33	0.05	0.00								5.75	
	285-315		0.41	2.70	2.24	1.14	0.33	0.05									6.87	
	255-285	0.04	0.92	4.80	2.61	0.78	0.08										9.23	
	225-255	0.30	6.66	9.95	1.96	0.22	0.01										19.11	
	195-225	0.23	4.53	5.36	0.51	0.03											10.65	
	165-195	0.29	4.14	3.07	0.17												7.67	
	135-165	0.42	2.82	1.56	0.07												4.87	
	105-135	0.51	2.30	1.58	0.09	0.00											4.49	
	75-105	0.49	2.91	3.40	0.43	0.04											7.27	
	45-75	0.28	3.01	4.24	1.31	0.06											8.91	
	15-45	0.05	2.22	4.08	1.61	0.25	0.02	0.00									8.23	
	345-15	0.01	0.78	2.45	2.38	1.11	0.21	0.03									6.98	
		2.63	31.09	44.74	15.47	4.95	0.99	0.13	0.00								100.00	
		9 m/s <=U ₈₀ <11 m/s															Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 80m							
											9 m/s <=U ₈₀ <11 m/s							
Deltares													App. B.2.036					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345		0.03	0.64	1.51	1.98	1.02	0.42	0.06								5.67
	285-315		0.09	0.81	2.23	1.86	0.88	0.31	0.03								6.20
	255-285		0.11	2.80	4.60	2.15	0.43	0.04	0.00								10.14
	225-255	0.05	2.39	11.42	8.15	1.31	0.10										23.42
	195-225	0.01	1.32	8.11	4.03	0.27	0.01										13.76
	165-195	0.07	1.37	6.07	1.41	0.08	0.00										9.01
	135-165	0.10	1.04	2.45	0.54												4.13
	105-135	0.11	0.91	1.50	0.70	0.02											3.23
	75-105	0.08	1.03	1.77	1.87	0.22											4.97
	45-75	0.03	1.40	2.46	2.31	0.74	0.05	0.00									6.98
	15-45		0.66	2.80	2.48	1.01	0.13	0.01									7.10
	345-15	0.01	0.11	0.73	1.84	1.54	0.97	0.19	0.01								5.39
		0.46	10.47	41.56	31.66	11.17	3.59	0.98	0.11								100.00
		11 m/s <=U ₈₀ <13 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 80m						
											11 m/s <=U ₈₀ <13 m/s						
Deltares													App. B.2.037				

	H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
315-345	0.01	0.05	0.51	1.40	1.53	1.56	0.32	0.11	0.02						5.51
285-315	0.01	0.12	0.80	1.97	1.74	0.74	0.28	0.05							5.71
255-285		0.41	2.85	4.72	1.93	0.34	0.02								10.27
225-255	0.01	0.61	4.44	12.07	7.84	1.23	0.07	0.02							26.30
195-225	0.24	3.69	10.71	3.87	0.19	0.01									18.71
165-195	0.01	0.24	2.32	6.26	0.90	0.04	0.01								9.78
135-165	0.01	0.32	0.88	1.37	0.12										2.69
105-135	0.01	0.22	0.43	0.76	0.25										1.67
75-105	0.33	0.21	1.71	1.68	0.21										4.14
45-75	0.34	0.90	1.56	2.13	0.31	0.02	0.01								5.26
15-45	0.01	0.07	0.80	2.17	2.19	0.65	0.11	0.04	0.01						6.05
345-15		0.03	0.58	1.17	1.03	0.85	0.24	0.03							3.93
	0.05	2.38	14.28	41.34	28.23	8.86	3.71	0.92	0.20	0.02					100.00
	13 m/s <=U ₈₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 80m

13 m/s <=U₈₀<15 m/s

Deltares

App. B.2.038

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
315-345				0.06	0.43	1.05	1.26	1.31	0.86	0.16	0.03	0.02	0.01				5.19
285-315			0.01	0.12	0.66	1.37	1.65	0.98	0.39	0.07							5.26
255-285			0.05	0.39	3.05	4.91	2.11	0.32	0.04								10.88
225-255		0.07	0.63	4.94	14.14	10.38	1.60	0.06	0.02								31.84
195-225		0.01	0.77	5.57	11.41	3.26	0.17	0.02									21.20
165-195		0.06	0.21	3.59	5.79	0.72	0.04	0.01									10.43
135-165		0.04	0.05	0.63	0.84	0.06											1.63
105-135		0.02	0.04	0.36	0.17	0.09	0.01										0.69
75-105			0.01	0.24	0.89	0.81	0.02										1.98
45-75		0.01	0.14	0.20	1.23	1.31	0.28	0.01									3.18
15-45			0.10	0.82	1.21	1.22	0.61	0.12	0.03								4.11
345-15				0.05	0.37	0.98	1.04	0.74	0.37	0.02		0.02					3.61
		0.22	2.01	16.98	40.21	26.16	8.78	3.58	1.72	0.26	0.03	0.04	0.01				100.00
15 m/s <=U ₈₀ <17 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 80m

15 m/s <=U₈₀<17 m/s

Deltares

App. B.2.039

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North	315-345					0.19	0.37	0.85	1.06	1.37	1.04	0.27	0.14				5.30
	285-315				0.02	0.33	0.68	1.43	1.86	1.08	0.15	0.06	0.02				5.62
	255-285		0.02	0.02	0.02	0.64	2.65	5.16	3.17	0.58	0.12						12.37
	225-255			0.10	0.89	5.93	14.55	12.39	2.49	0.10							36.45
	195-225		0.02	0.08	0.95	6.69	11.07	3.46	0.17	0.02							22.46
	165-195			0.10	0.27	3.79	5.55	0.93	0.04								10.67
	135-165				0.08	0.48	0.77	0.08									1.41
	105-135				0.02	0.15	0.14	0.19									0.50
	75-105						0.27	0.29									0.56
	45-75				0.08	0.04	0.06	0.33	0.21								0.72
	15-45				0.02	0.25	0.33	0.64	0.54	0.15	0.02						1.95
	345-15					0.04	0.25	0.56	0.44	0.41	0.25	0.04					1.99
		0.04	0.29	2.34	18.53	36.68	26.30	9.99	3.71	1.58	0.37	0.15				100.00	
17 m/s <=U ₈₀ <19 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 80m					
												17 m/s <=U ₈₀ <19 m/s					
Deltares														App. B.2.040			

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
315-345						0.08	0.15	0.50	0.27	0.54	0.58	0.85	0.50	0.19			3.65
						0.23	0.19	0.38	1.00	2.61	0.81	0.35	0.27	0.04			5.88
						0.12	0.54	2.07	4.00	2.31	0.46						9.49

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345									0.56	0.28			1.67			2.50	
	285-315						0.28		2.78	1.94	1.11	0.56	0.28			6.94		
	255-285						0.56	0.28	1.11	5.56	1.39	1.39				10.28		
	225-255						1.11	6.39	20.83	13.89	2.50					44.72		
	195-225					0.83	1.67	11.39	8.06	3.06	1.11					26.11		
	165-195						0.28	5.00	3.89							9.17		
	135-165							0.28								0.28		
	105-135																	
	75-105																	
	45-75																	
	15-45																	
	345-15																	
		0.83 3.89 23.33 37.22 24.72 6.11 1.94 1.94 100.00																
23 m/s <=U ₈₀ <25 m/s																Total		
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 80m						
												23 m/s <=U ₈₀ <25 m/s						
Deltares														App. B.2.043				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		
Wind direction (° N)	315-345													0.84			0.84
	285-315						0.84		0.84				0.84	0.84			3.36
	255-285								0.84	4.20	0.84	2.52					8.40
	225-255				0.84		0.84	0.84	9.24	25.21	9.24	0.84					47.06
	195-225							5.88	11.76	10.92	2.52						31.09
	165-195							2.52	5.88			0.84					9.24
	135-165																
	105-135																
	75-105																
	45-75																
	15-45																
	345-15																
		0.841.689.2428.5740.3413.454.201.68100.00															
25 m/s <=U ₈₀ <27 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 80m					
												25 m/s <=U ₈₀ <27 m/s					
Deltares														App. B.2.044			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345													2.78			2.78
	285-315											1.39	2.78				4.17
	255-285									2.78	1.39	4.17	1.39	5.56			15.28
	225-255							1.39	1.39	9.72	18.06	15.28	2.78	1.39			50.00
	195-225							1.39	2.78	9.72	8.33						22.22
	165-195										5.56						5.56
	135-165																
	105-135																
	75-105																
	45-75																
	15-45																
	345-15																
		2.78 4.17 22.22 34.72 22.22 6.94 6.94 100.00															
U ₈₀ >= 27 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 80m					
												U ₈₀ >= 27 m/s					
Deltares														App. B.2.045			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345	0.48	1.48	1.50	1.06	0.71	0.39	0.30	0.14	0.11	0.05	0.03	0.02	0.01			6.29
	285-315	0.57	1.65	1.93	1.16	0.75	0.42	0.25	0.15	0.11	0.03	0.01	0.01	0.00			7.05
	255-285	0.95	2.48	2.64	1.57	1.02	0.59	0.33	0.19	0.07	0.04	0.01	0.01	0.00	0.00		9.90
	225-255	1.39	5.37	4.89	2.80	1.84	1.20	0.77	0.44	0.16	0.07	0.02	0.01	0.00	0.00		18.96
	195-225	1.13	3.69	3.01	1.87	1.20	0.63	0.33	0.18	0.06	0.02	0.01					12.12
	165-195	1.11	3.01	1.80	0.96	0.51	0.27	0.13	0.05	0.01		0.00					7.86
	135-165	1.19	2.42	0.87	0.25	0.07	0.03	0.01	0.00								4.83
	105-135	1.27	2.50	0.76	0.20	0.04	0.01	0.01									4.79
	75-105	1.16	3.18	1.33	0.49	0.23	0.07	0.01									6.46
	45-75	1.19	3.28	1.91	0.75	0.36	0.10	0.03	0.01								7.63
	15-45	0.87	2.73	2.33	0.97	0.44	0.15	0.07	0.03	0.01	0.01	0.00					7.60
	345-15	0.56	1.80	1.79	1.16	0.57	0.31	0.18	0.08	0.04	0.02	0.00	0.00				6.51
		11.87	33.60	24.76	13.24	7.73	4.18	2.41	1.26	0.58	0.24	0.08	0.05	0.01	0.00		100.00
All year																	Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 90m		All Year			
Deltares														App. B.2.046			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345	2.62	3.66	1.11	0.18												7.56
	285-315	2.87	3.76	1.22	0.23												8.08
	255-285	3.99	4.26	1.00	0.14												9.40
	225-255	4.22	4.16	0.91	0.13		0.02										9.43
	195-225	3.59	4.03	0.71	0.04												8.37
	165-195	3.80	3.33	0.48	0.04												7.65
	135-165	3.54	3.06	0.37	0.06	0.01	0.01										7.05
	105-135	3.91	3.32	0.44	0.10	0.02											7.79
	75-105	3.86	3.64	0.78	0.08												8.36
	45-75	3.68	4.41	0.82	0.06	0.01											8.97
	15-45	3.50	4.23	1.25	0.10	0.01											9.08
	345-15	2.96	4.07	1.09	0.13	0.01											8.25
		42.54	45.92	10.17	1.29	0.05	0.03										100.00
		1 m/s <=U ₉₀ <3 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 90m						
											1 m/s <=U ₉₀ <3 m/s						
Deltares													App. B.2.047				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345	1.54	3.70	1.85	0.45	0.05											7.60	
	285-315	2.04	4.20	1.90	0.49	0.04											8.67	
	255-285	3.08	4.99	1.74	0.33	0.02	0.00										10.17	
	225-255	3.44	5.63	1.49	0.14	0.00											10.70	
	195-225	3.09	4.34	0.91	0.06	0.00											8.40	
	165-195	3.06	3.53	0.35	0.03												6.97	
	135-165	3.01	2.97	0.29	0.03												6.31	
	105-135	2.98	3.88	0.42	0.01												7.29	
	75-105	2.95	4.38	0.50	0.03	0.00											7.86	
	45-75	3.02	4.86	1.06	0.09												9.03	
	15-45	2.74	4.71	1.52	0.10	0.02											9.08	
	345-15	1.81	3.83	2.03	0.22	0.01											7.91	
		32.76	51.02	14.05	2.00	0.16	0.00											100.00
		3 m/s <=U ₉₀ <5 m/s															Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 90m							
											3 m/s <=U ₉₀ <5 m/s							
Deltares													App. B.2.048					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.49	2.74	2.60	1.03	0.15											7.03
	285-315	0.56	3.22	2.89	0.93	0.18	0.01		0.00								7.79
	255-285	1.35	4.97	2.67	0.52	0.07											9.59
	225-255	2.67	7.87	2.25	0.25	0.02											13.06
	195-225	1.99	5.60	1.33	0.07	0.00											9.01
	165-195	1.49	4.07	0.51	0.06												6.13
	135-165	1.94	3.83	0.45	0.01												6.23
	105-135	2.10	4.05	0.54	0.01	0.00											6.71
	75-105	1.74	5.86	0.93	0.05												8.58
	45-75	2.27	5.30	1.39	0.11	0.01											9.09
	15-45	1.41	4.67	2.50	0.28	0.03											8.89
	345-15	0.54	3.42	3.06	0.76	0.10	0.00										7.89
		18.56	55.60	21.14	4.11	0.58	0.01		0.00								100.00
5 m/s ≤ U ₉₀ < 7 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 90m

5 m/s ≤ U₉₀ < 7 m/s

Deltares

App. B.2.049

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.11	1.54	2.76	1.59	0.47	0.04	0.01									6.52
	285-315	0.10	1.70	3.66	1.39	0.52	0.04	0.01									7.43
	255-285	0.30	3.58	4.59	1.11	0.14	0.01										9.74
	225-255	1.03	9.67	5.02	0.51	0.03	0.00										16.26
	195-225	0.77	6.20	2.43	0.10	0.00											9.51
	165-195	0.87	4.79	1.19	0.07	0.00											6.92
	135-165	1.02	3.46	0.61	0.02												5.11
	105-135	1.12	3.77	0.67	0.02	0.00											5.58
	75-105	0.88	4.76	1.63	0.10	0.01											7.37
	45-75	0.95	5.08	2.58	0.46	0.02											9.09
	15-45	0.32	4.00	3.59	0.65	0.06	0.01										8.63
	345-15	0.16	2.23	3.01	2.04	0.37	0.04										7.85
		7.63	50.77	31.73	8.05	1.64	0.15	0.02									100.00
7 m/s <=U ₉₀ <9 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 90m

7 m/s <=U₉₀<9 m/s

Deltares

App. B.2.050

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.03	0.43	1.58	2.07	1.29	0.32	0.05	0.00								5.77
	285-315		0.44	2.71	2.22	1.09	0.32	0.04									6.83
	255-285	0.05	1.08	4.76	2.54	0.78	0.07										9.29
	225-255	0.39	7.04	9.65	1.88	0.19	0.01										19.16
	195-225	0.27	4.63	5.20	0.46	0.04											10.59
	165-195	0.33	4.27	2.87	0.16												7.64
	135-165	0.45	2.92	1.50	0.07												4.94
	105-135	0.53	2.30	1.52	0.09	0.00											4.44
	75-105	0.48	3.06	3.42	0.41	0.04											7.41
	45-75	0.28	3.03	4.21	1.25	0.06											8.84
	15-45	0.04	2.19	3.98	1.60	0.24	0.02	0.00									8.08
	345-15	0.02	0.80	2.48	2.39	1.10	0.20	0.02									7.02
		2.87	32.21	43.89	15.14	4.83	0.95	0.12	0.00								100.00
9 m/s <=U ₉₀ <11 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 90m

9 m/s <=U₉₀<11 m/s

Deltares

App. B.2.051

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345		0.04	0.67	1.57	1.96	0.99	0.37	0.06								5.66
	285-315		0.11	0.92	2.18	1.84	0.84	0.29	0.03								6.21
	255-285		0.17	3.05	4.48	2.02	0.41	0.03									10.16
	225-255	0.08	2.81	11.53	7.50	1.20	0.10										23.22
	195-225	0.02	1.62	8.07	3.68	0.24	0.01										13.64
	165-195	0.09	1.52	5.92	1.24	0.07	0.00										8.84
	135-165	0.14	1.18	2.38	0.48												4.18
	105-135	0.15	1.03	1.54	0.68	0.02											3.41
	75-105	0.14	1.19	1.80	1.83	0.19											5.16
	45-75	0.01	1.41	2.46	2.31	0.72	0.04	0.00									6.97
	15-45		0.84	2.83	2.37	0.97	0.12	0.01									7.15
	345-15	0.01	0.11	0.76	1.85	1.53	0.94	0.19	0.01								5.39
		0.65	12.03	41.94	30.17	10.76	3.45	0.89	0.10								100.00
		11 m/s <=U ₉₀ <13 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 90m						
											11 m/s <=U ₉₀ <13 m/s						
Deltares													App. B.2.052				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.01	0.05	0.52	1.42	1.50	1.58	0.30	0.10	0.01							5.49
	285-315	0.02	0.15	0.89	1.94	1.72	0.69	0.26	0.05								5.74
	255-285			0.46	3.11	4.61	1.77	0.32	0.03								10.30
	225-255	0.01	0.83	5.18	12.10	6.95	1.01	0.06	0.01								26.15
	195-225		0.33	3.98	10.42	3.22	0.15	0.01									18.10
	165-195	0.03	0.35	2.67	5.90	0.78	0.03	0.01									9.76
	135-165	0.02	0.42	1.06	1.37	0.12											2.99
	105-135	0.02	0.38	0.49	0.73	0.24											1.86
	75-105		0.44	0.30	1.72	1.60	0.21										4.26
	45-75	0.01	0.46	1.09	1.58	2.02	0.28	0.02	0.01								5.45
	15-45	0.01	0.12	0.89	2.24	2.07	0.62	0.10	0.03								6.06
	345-15		0.01	0.03	0.60	1.17	1.00	0.80	0.20	0.03							3.83
		0.09	3.36	16.34	41.17	26.14	8.29	3.59	0.83	0.17	0.01						100.00
		13 m/s <=U ₉₀ <15 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 90m

13 m/s <=U₉₀<15 m/s

Deltares

App. B.2.053

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345				0.08	0.46	1.07	1.21	1.24	0.80	0.15	0.03	0.02	0.01		5.09	
	285-315			0.01	0.14	0.72	1.31	1.64	0.88	0.37	0.07					5.15	
	255-285			0.07	0.51	3.18	4.82	1.84	0.30	0.03						10.74	
	225-255	0.01	0.09	0.91	5.74	14.38	9.22	1.26	0.06	0.02						31.70	
	195-225		0.07	1.06	6.14	11.07	2.75	0.13	0.01							21.24	
	165-195		0.09	0.36	4.04	5.24	0.58	0.03								10.35	
	135-165		0.05	0.07	0.68	0.76	0.04									1.61	
	105-135		0.02	0.04	0.41	0.18	0.06	0.01								0.72	
	75-105		0.03	0.02	0.25	0.98	0.77	0.02								2.07	
	45-75		0.03	0.29	0.29	1.32	1.28	0.25	0.01							3.47	
	15-45			0.13	0.83	1.34	1.19	0.56	0.11	0.04						4.20	
	345-15				0.07	0.42	1.02	1.01	0.76	0.34	0.02		0.01			3.66	
		0.01	0.39	2.97	19.18	40.06	24.12	7.96	3.37	1.61	0.25	0.03	0.03	0.01		100.00	
		15 m/s <=U ₉₀ <17 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 90m

15 m/s <=U₉₀<17 m/s

Deltares

App. B.2.054

		H _s (m)														Wind direction (° N)		
		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	5.5-6.0	6.0-6.5	6.5-7.0			>7.0
315-345						0.22	0.41	0.87	1.09	1.35	0.98	0.26	0.13				5.31	
285-315						0.30	0.74	1.33	1.79	1.04	0.15	0.06	0.02				5.42	
255-285			0.02	0.02	0.02	0.74	2.98	5.12	2.76	0.48	0.09						12.22	
225-255				0.11	1.26	7.01	15.16	10.91	1.94	0.07							36.46	
195-225			0.02	0.11	1.22	7.77	10.45	2.53	0.17	0.02							22.28	
165-195			0.02	0.09	0.26	4.42	5.07	0.74	0.04								10.63	
135-165			0.04	0.02	0.07	0.52	0.74	0.06									1.44	
105-135					0.02	0.15	0.17	0.17									0.50	
75-105						0.02	0.30	0.28									0.59	
45-75					0.06	0.06	0.11	0.35	0.20								0.78	
15-45					0.17	0.33	0.39	0.68	0.55	0.15							2.27	
345-15						0.04	0.26	0.65	0.43	0.43	0.24	0.04	0.02				2.09	
			0.09	0.35	3.07	21.56	36.76	23.69	8.97	3.53	1.46	0.35	0.17					100.00
17 m/s <=U ₉₀ <19 m/s																	Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 90m						
												17 m/s <=U ₉₀ <19 m/s						
Deltares														App. B.2.055				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345							0.09	0.17	0.43	0.60	0.43	0.51	0.34			2.57
	285-315					0.17	0.17	0.51	0.34	1.63	0.68	0.68	1.03	0.09			5.30
	255-285					0.09		0.34	2.22	3.17	2.14	0.51					8.47
	225-255					0.09	0.86	7.61	20.02	11.04	2.31	0.60					42.51
	195-225					0.17	1.97	9.58	12.75	3.93							28.40
	165-195					0.26	0.86	5.22	3.85	0.26							10.44
	135-165							0.26									0.26
	105-135																
	75-105																
	45-75																
	15-45										0.17	0.34					0.51
	345-15							0.09	0.17	0.51	0.34		0.43				1.54
		0.77 3.85 23.70 39.52 20.96 6.24 2.57 1.97 0.43 100.00															
21 m/s <=U ₉₀ <23 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 90m					
												21 m/s <=U ₉₀ <23 m/s					
Deltares														App. B.2.057			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345								0.51	0.25				1.52			2.27
	285-315						0.25		2.78	2.02	1.01	0.76	0.25				7.07
	255-285						0.51	0.51	1.01	5.56	1.26	1.01					9.85
	225-255						1.01	9.60	21.46	13.64	2.02						47.73
	195-225					0.76	2.27	11.62	7.07	2.02	0.25						23.99
	165-195						0.51	5.05	3.28								8.84
	135-165							0.25									0.25
	105-135																
	75-105																
	45-75																
	15-45																
	345-15																
							0.76	4.55	27.02	36.11	23.48	4.55	1.77	1.77			100.00
23 m/s <=U ₉₀ <25 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 90m					
												23 m/s <=U ₉₀ <25 m/s					
Deltares														App. B.2.058			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345													0.73			0.73
	285-315						0.73		0.73				0.73	0.73			2.92
	255-285								0.73	2.92	0.73	2.92					7.30
	225-255				0.73		0.73	0.73	10.95	21.90	7.30	0.73					43.07
	195-225							8.76	12.41	11.68	3.65						36.50
	165-195							2.19	6.57			0.73					9.49
	135-165																
	105-135																
	75-105																
	45-75																
	15-45																
	345-15																
		0.731.4611.6831.3936.5012.414.381.46100.00															
25 m/s <=U ₉₀ <27 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 90m					
												25 m/s <=U ₉₀ <27 m/s					
Deltares														App. B.2.059			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0							
Wind direction (° N)	315-345													2.38			2.38						
	285-315											1.19	2.38				3.57						
	255-285										3.57	1.19	3.57	1.19	4.76		14.29						
	225-255							1.19	3.57	14.29	17.86	13.10	2.38	1.19			53.57						
	195-225							1.19	2.38	9.52	8.33						21.43						
	165-195											4.76					4.76						
	135-165																						
	105-135																						
	75-105																						
	45-75																						
	15-45																						
	345-15																						
																2.38	5.95	27.38	33.33	19.05	5.95	5.95	100.00
U ₉₀ >= 27 m/s																		Total					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
Wind direction (° N)	315-345	0.50	1.49	1.51	1.07	0.71	0.39	0.29	0.14	0.11	0.05	0.03	0.02	0.01		6.31
	285-315	0.58	1.66	1.93	1.17	0.75	0.41	0.25	0.15	0.11	0.03	0.01	0.01	0.00		7.08
	255-285	0.96	2.52	2.65	1.57	1.02	0.59	0.33	0.19	0.08	0.04	0.01	0.01	0.00	0.00	9.97
	225-255	1.41	5.40	4.90	2.81	1.84	1.21	0.77	0.44	0.16	0.07	0.02	0.01	0.00	0.00	19.03
	195-225	1.13	3.68	3.00	1.86	1.20	0.63	0.33	0.18	0.06	0.02	0.01				12.08
	165-195	1.12	3.00	1.79	0.96	0.51	0.27	0.13	0.05	0.01		0.00				7.85
	135-165	1.20	2.42	0.87	0.25	0.07	0.03	0.01	0.00							4.84
	105-135	1.26	2.50	0.75	0.20	0.04	0.01	0.01								4.77
	75-105	1.15	3.18	1.33	0.49	0.23	0.07	0.01								6.46
	45-75	1.17	3.27	1.91	0.75	0.36	0.10	0.03	0.01							7.60
	15-45	0.84	2.69	2.32	0.96	0.44	0.15	0.07	0.03	0.01	0.01	0.00				7.53
	345-15	0.54	1.78	1.79	1.16	0.57	0.31	0.18	0.08	0.04	0.02	0.00	0.00			6.48
		11.87	33.60	24.76	13.24	7.73	4.18	2.41	1.26	0.58	0.24	0.08	0.05	0.01	0.00	100.00
All year																Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

All Year

Deltares

App. B.2.061

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	2.71	3.64	1.13	0.19												7.66
	285-315	2.90	3.78	1.21	0.22												8.12
	255-285	3.98	4.24	1.02	0.15												9.39
	225-255	4.17	4.33	0.90	0.12		0.02										9.54
	195-225	3.57	3.92	0.70	0.04												8.23
	165-195	3.93	3.31	0.49	0.04												7.77
	135-165	3.54	3.04	0.39	0.06	0.01	0.01										7.05
	105-135	3.80	3.27	0.46	0.10	0.02											7.65
	75-105	3.95	3.60	0.78	0.08												8.41
	45-75	3.60	4.48	0.81	0.06	0.01											8.96
	15-45	3.57	4.14	1.23	0.10	0.01											9.06
	345-15	2.85	4.07	1.10	0.13	0.01											8.17
		42.57	45.83	10.22	1.30	0.05	0.03										100.00
		1 m/s <=U ₁₀₀ <3 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

1 m/s <=U₁₀₀<3 m/s

Deltares

App. B.2.062

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	1.56	3.70	1.87	0.45	0.05											7.63
	285-315	2.09	4.15	1.88	0.50	0.04											8.66
	255-285	3.16	5.05	1.75	0.33	0.02	0.00										10.33
	225-255	3.47	5.59	1.46	0.13	0.00											10.66
	195-225	3.03	4.33	0.92	0.06	0.00											8.36
	165-195	3.06	3.51	0.34	0.03												6.95
	135-165	2.97	2.92	0.26	0.03												6.19
	105-135	2.98	3.87	0.41	0.01												7.27
	75-105	2.93	4.36	0.52	0.03	0.00											7.84
	45-75	3.03	4.92	1.06	0.10												9.12
	15-45	2.71	4.73	1.55	0.10	0.02											9.11
	345-15	1.81	3.81	2.03	0.23	0.01											7.89
		32.80	50.96	14.06	2.01	0.16	0.00										100.00
		3 m/s ≤ U ₁₀₀ < 5 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

3 m/s ≤ U₁₀₀ < 5 m/s

Deltares

App. B.2.063

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.50	2.82	2.62	1.05	0.16											7.15
	285-315	0.58	3.26	2.87	0.95	0.19	0.01		0.00								7.86
	255-285	1.39	5.00	2.70	0.51	0.08											9.67
	225-255	2.63	7.73	2.23	0.26	0.02											12.86
	195-225	2.00	5.50	1.33	0.08	0.00											8.91
	165-195	1.55	4.02	0.54	0.06												6.17
	135-165	1.92	3.83	0.45	0.02												6.21
	105-135	2.15	4.05	0.55	0.02	0.00											6.76
	75-105	1.73	5.93	0.94	0.05												8.64
	45-75	2.25	5.31	1.42	0.11	0.01											9.10
	15-45	1.33	4.58	2.50	0.28	0.03											8.72
	345-15	0.56	3.42	3.08	0.77	0.10	0.00										7.93
		18.59	55.44	21.21	4.15	0.59	0.01		0.00								100.00
		5 m/s ≤ U ₁₀₀ < 7 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

5 m/s ≤ U₁₀₀ < 7 m/s

Deltares

App. B.2.064

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.12	1.57	2.85	1.59	0.47	0.04	0.01									6.66
	285-315	0.11	1.79	3.72	1.38	0.52	0.04	0.01									7.58
	255-285	0.37	3.80	4.59	1.10	0.14	0.01										10.00
	225-255	1.16	9.56	4.87	0.50	0.03	0.00										16.12
	195-225	0.83	6.07	2.35	0.10	0.00											9.35
	165-195	0.90	4.71	1.14	0.07	0.00											6.82
	135-165	1.15	3.45	0.59	0.02												5.21
	105-135	1.07	3.75	0.65	0.02	0.00											5.49
	75-105	0.90	4.74	1.61	0.10	0.01											7.35
	45-75	0.89	5.06	2.56	0.45	0.02											8.99
	15-45	0.30	4.00	3.57	0.65	0.06	0.01										8.58
	345-15	0.16	2.21	3.03	2.05	0.36	0.04										7.85
		7.95	50.69	31.53	8.03	1.62	0.15	0.02									100.00
7 m/s <=U ₁₀₀ <9 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

7 m/s <=U₁₀₀<9 m/s

Deltares

App. B.2.065

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.03	0.48	1.57	2.05	1.26	0.31	0.04	0.00								5.75
	285-315	0.01	0.49	2.74	2.24	1.05	0.31	0.04									6.88
	255-285	0.06	1.18	4.75	2.48	0.75	0.07										9.29
	225-255	0.48	7.40	9.47	1.76	0.18	0.01										19.31
	195-225	0.32	4.81	4.95	0.41	0.03											10.52
	165-195	0.39	4.27	2.72	0.16												7.54
	135-165	0.49	2.93	1.47	0.07												4.96
	105-135	0.57	2.32	1.51	0.09	0.00											4.48
	75-105	0.47	3.08	3.43	0.40	0.04											7.42
	45-75	0.30	3.03	4.15	1.24	0.06											8.77
	15-45	0.04	2.17	3.95	1.57	0.23	0.02	0.00									7.99
	345-15	0.03	0.84	2.56	2.36	1.08	0.20	0.02									7.08
		3.20	33.01	43.27	14.82	4.68	0.92	0.10	0.00								100.00
		9 m/s <=U ₁₀₀ <11 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

9 m/s <=U₁₀₀<11 m/s

Deltares

App. B.2.066

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345		0.06	0.72	1.60	1.95	0.95	0.37	0.06								5.71
	285-315		0.12	1.02	2.19	1.83	0.81	0.29	0.02								6.28
	255-285		0.25	3.23	4.31	1.93	0.39	0.03									10.13
	225-255	0.10	3.21	11.43	6.97	1.07	0.08										22.86
	195-225	0.05	1.92	7.96	3.33	0.21	0.01										13.48
	165-195	0.11	1.79	5.72	1.08	0.06	0.00										8.77
	135-165	0.17	1.36	2.37	0.44												4.34
	105-135	0.18	1.22	1.53	0.62	0.02											3.57
	75-105	0.18	1.37	1.84	1.77	0.16											5.32
	45-75	0.01	1.47	2.47	2.25	0.68	0.04	0.00									6.92
	15-45		0.91	2.90	2.28	0.95	0.11	0.01									7.16
	345-15	0.01	0.13	0.79	1.88	1.52	0.92	0.18	0.01								5.45
		0.81	13.82	41.97	28.73	10.37	3.31	0.88	0.09								100.00
		11 m/s <=U ₁₀₀ <13 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 100m						
											11 m/s <=U ₁₀₀ <13 m/s						
Deltares													App. B.2.067				

	H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0
315-345	0.01	0.05	0.55	1.43	1.52	1.48	0.26	0.08	0.01						5.39
285-315	0.02	0.21	0.92	1.98	1.67	0.67	0.27	0.05							5.80
255-285	0.02	0.62	3.37	4.37	1.65	0.24	0.03								10.29
225-255	0.01	1.02	5.87	11.96	6.28	0.86	0.04	0.01							26.06
195-225	0.40	4.35	9.87	2.73	0.13	0.01									17.49
165-195	0.04	0.49	3.04	5.53	0.67	0.03	0.01								9.81
135-165	0.05	0.54	1.12	1.30	0.09										3.11
105-135	0.02	0.50	0.54	0.76	0.21										2.02
75-105	0.54	0.37	1.75	1.58	0.18										4.42
45-75	0.01	0.62	1.17	1.61	2.00	0.25	0.01	0.01							5.68
15-45	0.01	0.18	0.98	2.28	1.94	0.59	0.08	0.03							6.09
345-15	0.01	0.05	0.66	1.19	0.97	0.77	0.17	0.03							3.84
	0.13	4.35	18.37	40.57	24.48	7.85	3.32	0.78	0.15	0.01					100.00
	13 m/s <=U ₁₀₀ <15 m/s														Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

13 m/s <=U₁₀₀<15 m/s

Deltares

App. B.2.068

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
315-345				0.10	0.47	1.04	1.23	1.18	0.74	0.12	0.03	0.02	0.01			4.93	
285-315			0.02	0.18	0.74	1.32	1.55	0.84	0.36	0.07						5.07	
255-285			0.09	0.54	3.54	4.68	1.72	0.22	0.03							10.82	
225-255	0.02	0.23	1.20	6.65	14.11	8.21	0.98	0.06	0.01							31.46	
195-225		0.14	1.36	6.83	10.66	2.19	0.09	0.01								21.27	
165-195		0.13	0.46	4.42	4.67	0.44	0.01									10.11	
135-165		0.11	0.17	0.77	0.70	0.04										1.79	
105-135		0.04	0.06	0.44	0.21	0.05	0.01									0.80	
75-105		0.09	0.03	0.27	0.97	0.74	0.02									2.12	
45-75		0.11	0.48	0.39	1.28	1.27	0.23	0.01								3.75	
15-45		0.03	0.17	0.88	1.43	1.15	0.51	0.08	0.03							4.27	
345-15				0.07	0.45	1.03	0.97	0.75	0.31	0.01		0.01				3.60	
		0.02	0.87	4.02	21.53	39.21	22.15	7.31	3.15	1.48	0.20	0.03	0.03	0.01		100.00	
		15 m/s <=U ₁₀₀ <17 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 100m						
											15 m/s <=U ₁₀₀ <17 m/s						
Deltares													App. B.2.069				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345				0.02	0.25	0.43	0.84	1.14	1.37	0.96	0.23	0.09				5.33
	285-315					0.29	0.73	1.30	1.66	0.89	0.14	0.05	0.02				5.08
	255-285		0.02	0.02	0.07	0.77	3.06	5.01	2.49	0.43	0.07						11.94
	225-255		0.02	0.11	1.48	8.03	15.20	9.64	1.51	0.07							36.06
	195-225		0.02	0.21	1.66	8.46	10.10	2.17	0.11	0.02							22.75
	165-195		0.02	0.07	0.37	4.93	4.58	0.64	0.04								10.65
	135-165		0.04	0.02	0.09	0.59	0.68	0.05									1.46
	105-135				0.02	0.12	0.16	0.16									0.46
	75-105					0.05	0.30	0.25									0.61
	45-75				0.05	0.14	0.12	0.37	0.18								0.87
	15-45				0.27	0.41	0.48	0.75	0.59	0.16							2.65
	345-15					0.05	0.23	0.71	0.41	0.45	0.25	0.02	0.02				2.14
		0.11	0.43	4.03	24.10	36.08	21.90	8.12	3.38	1.43	0.30	0.12				100.00	
17 m/s <=U ₁₀₀ <19 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 100m					
												17 m/s <=U ₁₀₀ <19 m/s					
Deltares														App. B.2.070			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345							0.16	0.24	0.55	0.71	0.47	0.55	0.31			2.99
	285-315					0.24	0.16	0.47	0.31	1.49	0.79	0.63	0.79	0.08			4.96
	255-285					0.08	0.24	0.47	2.75	3.15	1.73	0.47					8.89
	225-255				0.08	0.08	1.18	9.91	20.77	9.76	1.34	0.47					43.59
	195-225					0.24	2.52	10.31	10.86	3.07							26.99
	165-195					0.24	0.79	5.90	3.30	0.24							10.46
	135-165							0.24									0.24
	105-135																
	75-105																
	45-75																
	15-45										0.16	0.31					0.47
	345-15							0.08	0.16	0.39	0.31		0.47				1.42
																100.00	
21 m/s <=U ₁₀₀ <23 m/s																Total	

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

$$21 \text{ m/s} \leq U_{100} < 23 \text{ m/s}$$

App. B.2.072

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345								0.68	0.23				1.36			2.27
	285-315						0.23		2.49	1.81	0.91	1.13	0.23				6.80
	255-285						0.45	0.45	1.13	5.22	0.91	0.45					8.62
	225-255						1.36	10.43	19.95	13.15	1.59						46.49
	195-225					0.91	2.95	15.19	7.03	1.36	0.23						27.66
	165-195					0.45	4.99	2.27									7.71
	135-165						0.23										0.23
	105-135																
	75-105																
	45-75																
	15-45																
	345-15							0.23									0.23
							0.91	5.44	31.29	33.79	21.77	3.63	1.59	1.59		100.00	
23 m/s ≤ U ₁₀₀ < 25 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 100m

23 m/s ≤ U₁₀₀ < 25 m/s

Deltares

App. B.2.073

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345													0.61			0.61	
	285-315						0.61		1.23				0.61	0.61			3.07	
	255-285								0.61	3.68	1.23	3.07					8.59	
	225-255				0.61		0.61	1.23	15.34	20.86	5.52	0.61					44.79	
	195-225							7.36	14.72	8.59	2.45						33.13	
	165-195							2.45	6.75		0.61						9.82	
	135-165																	
	105-135																	
	75-105																	
	45-75																	
	15-45																	
	345-15																	
		0.611.2311.0438.6533.139.824.291.23100.00																
25 m/s <=U ₁₀₀ <27 m/s																Total		
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 100m						
												25 m/s <=U ₁₀₀ <27 m/s						
Deltares														App. B.2.074				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0								
Wind direction (° N)	315-345													2.04			2.04							
	285-315											1.02	2.04				3.06							
	255-285									3.06	1.02	4.08	1.02	4.08			13.27							
	225-255							1.02	3.06	14.29	18.37	11.22	2.04	1.02			51.02							
	195-225							3.06	2.04	12.24	8.16						25.51							
	165-195							1.02		4.08							5.10							
	135-165																							
	105-135																							
	75-105																							
	45-75																							
	15-45																							
	345-15																							
																	4.08	6.12	29.59	32.65	17.35	5.10	5.10	100.00
U ₁₀₀ >=27 m/s																	Total							
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 100m												
												U ₁₀₀ >=27 m/s												
Deltares															App. B.2.075									

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
315-345	0.52	1.52	1.53	1.08	0.72	0.39	0.29	0.14	0.11	0.05	0.02	0.02	0.01				6.40
285-315	0.61	1.75	1.98	1.16	0.75	0.41	0.25	0.15	0.11	0.03	0.01	0.01	0.00				7.24
255-285	1.05	2.71	2.73	1.60	1.03	0.60	0.33	0.19	0.08	0.04	0.01	0.01	0.00	0.00			10.38
225-255	1.44	5.41	4.92	2.85	1.85	1.22	0.78	0.44	0.16	0.07	0.02	0.01	0.00	0.00			19.19
195-225	1.19	3.75	2.92	1.84	1.18	0.62	0.32	0.18	0.06	0.02	0.01						12.08
165-195	1.18	2.94	1.74	0.91	0.49	0.25	0.13	0.04	0.01		0.00						7.69
135-165	1.26	2.40	0.83	0.24	0.07	0.03	0.01	0.00									4.84
105-135	1.20	2.54	0.75	0.20	0.04	0.01	0.01										4.74
75-105	1.10	3.18	1.36	0.49	0.23	0.07	0.01										6.44
45-75	1.02	3.14	1.96	0.76	0.36	0.10	0.03	0.01									7.39
15-45	0.78	2.56	2.25	0.95	0.44	0.15	0.06	0.03	0.01	0.01	0.00						7.24
345-15	0.52	1.69	1.77	1.16	0.57	0.31	0.18	0.08	0.04	0.02	0.00	0.00					6.36
All year		11.87	33.60	24.76	13.24	7.73	4.18	2.41	1.26	0.58	0.24	0.08	0.05	0.01	0.00		100.00
		Total															

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 150m

All Year

Deltares

App. B.2.076

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	2.82	3.74	1.17	0.18												7.92
	285-315	3.09	3.92	1.15	0.19												8.35
	255-285	4.21	4.41	1.07	0.16												9.84
	225-255	4.25	4.30	0.81	0.11	0.02											9.49
	195-225	3.68	3.89	0.68	0.04												8.29
	165-195	4.16	3.25	0.52	0.05												7.98
	135-165	3.66	3.11	0.36	0.04	0.02	0.01										7.20
	105-135	3.47	3.05	0.49	0.10	0.01											7.13
	75-105	3.85	3.58	0.74	0.08	0.01											8.26
	45-75	3.65	4.25	0.83	0.06												8.79
	15-45	3.30	4.24	1.15	0.10	0.01											8.81
	345-15	2.73	3.94	1.14	0.12	0.01											7.94
		42.89	45.68	10.11	1.25	0.05	0.03										100.00
1 m/s <=U ₁₅₀ <3 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 150m

1 m/s <=U₁₅₀<3 m/s

Deltares

App. B.2.077

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0		
Wind direction (° N)	315-345	1.68	3.72	1.84	0.46	0.05											7.75	
	285-315	2.17	4.28	1.91	0.49	0.04											8.90	
	255-285	3.48	4.99	1.72	0.32	0.03	0.00										10.54	
	225-255	3.40	5.43	1.42	0.14	0.00											10.39	
	195-225	3.23	4.41	0.85	0.06	0.00											8.56	
	165-195	2.99	3.28	0.33	0.03												6.63	
	135-165	3.07	3.04	0.26	0.03												6.40	
	105-135	2.81	3.88	0.42	0.01												7.12	
	75-105	3.00	4.33	0.53	0.03	0.00											7.89	
	45-75	3.01	4.97	1.12	0.08												9.18	
	15-45	2.70	4.64	1.54	0.10	0.02											9.00	
	345-15	1.66	3.75	2.02	0.22	0.01											7.65	
		33.20	50.70	13.95	1.98	0.17	0.00											100.00
		3 m/s <=U ₁₅₀ <5 m/s															Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 150m							
											3 m/s <=U ₁₅₀ <5 m/s							
Deltares													App. B.2.078					

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.56	2.87	2.68	1.06	0.16											7.33
	285-315	0.61	3.48	2.84	0.96	0.18	0.01			0.00							8.09
	255-285	1.65	5.30	2.64	0.52	0.07											10.19
	225-255	2.70	7.19	2.19	0.24	0.02											12.34
	195-225	2.00	5.24	1.25	0.08	0.00											8.57
	165-195	1.77	3.95	0.51	0.06												6.29
	135-165	2.15	3.69	0.45	0.02												6.30
	105-135	2.01	4.13	0.55	0.01	0.00											6.72
	75-105	1.73	5.92	0.95	0.05												8.66
	45-75	1.99	5.46	1.45	0.13	0.01											9.05
	15-45	1.19	4.54	2.54	0.27	0.03											8.57
	345-15	0.59	3.34	3.08	0.78	0.09	0.00										7.90
		18.96	55.13	21.13	4.18	0.58	0.01	0.00								100.00	
		5 m/s <=U ₁₅₀ <7 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 150m						
											5 m/s <=U ₁₅₀ <7 m/s						
Deltares													App. B.2.079				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.17	1.74	3.01	1.61	0.45	0.04	0.01									7.02
	285-315	0.16	2.03	3.88	1.39	0.53	0.04	0.01									8.04
	255-285	0.46	4.35	4.59	1.05	0.12	0.01										10.58
	225-255	1.42	9.15	4.50	0.46	0.03	0.00										15.57
	195-225	1.00	5.86	2.07	0.10	0.00											9.02
	165-195	1.04	4.23	1.02	0.07	0.00											6.36
	135-165	1.33	3.40	0.52	0.01	0.00											5.26
	105-135	1.19	3.87	0.65	0.02												5.73
	75-105	0.86	4.87	1.60	0.10	0.01											7.43
	45-75	0.63	4.85	2.56	0.43	0.02											8.48
	15-45	0.25	3.82	3.71	0.66	0.06	0.01	0.00									8.51
	345-15	0.16	2.07	3.20	2.14	0.38	0.04										8.00
		8.65	50.24	31.30	8.04	1.61	0.14	0.02									100.00
		7 m/s ≤ U ₁₅₀ < 9 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 150m

7 m/s ≤ U₁₅₀ < 9 m/s

Deltares

App. B.2.080

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.02	0.65	1.76	2.12	1.30	0.31	0.03	0.00								6.19
	285-315	0.01	0.66	3.04	2.26	1.02	0.30	0.04									7.33
	255-285	0.08	1.74	4.92	2.39	0.74	0.06										9.93
	225-255	0.63	8.04	8.79	1.45	0.15	0.00										19.06
	195-225	0.43	5.12	4.33	0.32	0.02											10.22
	165-195	0.51	4.32	2.39	0.15												7.37
	135-165	0.53	2.70	1.20	0.06												4.49
	105-135	0.54	2.44	1.41	0.09	0.00											4.48
	75-105	0.44	3.07	3.48	0.39	0.03											7.41
	45-75	0.11	3.02	4.20	1.21	0.06											8.61
	15-45	0.02	2.10	3.78	1.53	0.19	0.02										7.65
	345-15	0.03	0.93	2.64	2.39	1.06	0.19	0.02									7.26
		3.35	34.77	41.95	14.36	4.58	0.88	0.09	0.00								100.00
		9 m/s <=U ₁₅₀ <11 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 150m

9 m/s <=U₁₅₀<11 m/s

Deltares

App. B.2.081

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345	0.11	0.78	1.70	1.85	0.85	0.34	0.05									5.68
	285-315	0.27	1.36	2.25	1.78	0.76	0.25	0.01									6.68
	255-285	0.01	0.63	3.67	4.06	1.61	0.34	0.01									10.34
	225-255	0.16	4.60	10.73	5.57	0.83	0.08										21.96
	195-225	0.18	3.12	7.41	2.44	0.17	0.01										13.32
	165-195	0.18	2.51	4.97	0.76	0.03	0.00										8.47
	135-165	0.26	2.03	2.18	0.34												4.80
	105-135	0.29	1.50	1.49	0.55	0.02											3.84
	75-105	0.13	1.83	2.03	1.61	0.13											5.74
	45-75	0.00	1.45	2.67	2.10	0.56	0.04	0.00									6.84
	15-45	0.01	0.90	2.67	2.16	0.91	0.08	0.02									6.75
	345-15	0.01	0.14	0.92	1.94	1.53	0.88	0.15	0.01								5.58
		1.23	19.10	40.88	25.47	9.42	3.04	0.78	0.07								100.00
		11 m/s <=U ₁₅₀ <13 m/s															Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 150m

11 m/s <=U₁₅₀<13 m/s

Deltares

App. B.2.082

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0	
Wind direction (° N)	315-345		0.02	0.18	0.72	1.55	1.47	1.30	0.23	0.05	0.01						5.53
	285-315		0.02	0.39	1.05	2.00	1.54	0.60	0.21	0.04							5.85
	255-285		0.14	1.57	3.94	3.80	1.33	0.20	0.01								10.99
	225-255	0.04	1.89	8.14	10.67	4.25	0.52	0.01	0.01								25.53
	195-225		1.06	5.21	7.99	1.57	0.06	0.01									15.89
	165-195	0.09	0.90	3.86	3.97	0.42	0.01	0.01									9.24
	135-165	0.07	0.76	1.46	1.15	0.09											3.53
	105-135	0.02	0.84	0.71	0.74	0.18											2.49
	75-105	0.01	0.87	0.72	1.88	1.44	0.15										5.06
	45-75		0.69	1.52	1.71	1.82	0.18	0.01	0.01								5.95
	15-45		0.35	1.19	2.17	1.75	0.47	0.06	0.02								6.01
	345-15	0.01	0.05	0.09	0.79	1.22	0.93	0.71	0.11	0.02							3.94
		0.23	7.61	25.03	36.78	20.09	6.66	2.90	0.59	0.10	0.01					100.00	
		13 m/s <=U ₁₅₀ <15 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North											Height: 150m						
											13 m/s <=U ₁₅₀ <15 m/s						
Deltares													App. B.2.083				

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345		0.01		0.15	0.50	1.07	1.23	0.90	0.56	0.09	0.02	0.02				4.55
	285-315		0.01	0.05	0.30	0.87	1.23	1.36	0.68	0.28	0.04						4.83
	255-285		0.02	0.33	1.21	4.14	3.83	1.05	0.12	0.01							10.71
	225-255	0.02	0.76	3.61	9.52	11.54	4.76	0.51	0.04	0.01							30.77
	195-225	0.01	0.41	2.66	8.26	8.08	1.10	0.05									20.58
	165-195	0.01	0.46	1.24	4.98	3.28	0.25										10.22
	135-165		0.36	0.52	0.87	0.48	0.03										2.26
	105-135	0.01	0.41	0.24	0.46	0.17	0.04										1.33
	75-105		0.35	0.24	0.40	1.03	0.66	0.02									2.70
	45-75		0.14	0.75	0.71	1.40	1.12	0.14									4.26
	15-45		0.01	0.42	0.99	1.49	1.07	0.33	0.07	0.02							4.40
	345-15		0.03		0.13	0.49	1.00	0.86	0.64	0.25			0.01				3.40
		0.04	2.97	10.06	27.98	33.48	16.15	5.54	2.46	1.13	0.13	0.02	0.03				100.00
		15 m/s <=U ₁₅₀ <17 m/s															Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 150m					
												15 m/s <=U ₁₅₀ <17 m/s					
Deltares														App. B.2.084			

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
315-345				0.01	0.27	0.53	0.87	1.27	1.30	0.72	0.15	0.06	0.01				5.21
285-315				0.03	0.31	0.78	1.17	1.38	0.67	0.12	0.03	0.01					4.50
255-285		0.01	0.09	0.13	1.35	3.76	4.28	1.60	0.18	0.06							11.45
225-255		0.09	0.75	4.23	11.95	13.93	5.25	0.70	0.01								36.92
195-225		0.06	0.90	3.82	9.82	7.25	0.75	0.07									22.68
165-195		0.10	0.19	1.61	4.97	2.47	0.28	0.01									9.64
135-165		0.04	0.04	0.22	0.67	0.46											1.43
105-135		0.07		0.12	0.13	0.12	0.09										0.53
75-105		0.01	0.03		0.10	0.27	0.18										0.59
45-75			0.36	0.21	0.34	0.25	0.43	0.10									1.69
15-45			0.09	0.44	0.59	0.59	0.80	0.41	0.13								3.06
345-15				0.01	0.10	0.33	0.70	0.52	0.41	0.21		0.01					2.29
		0.40	2.46	10.84	30.61	30.74	14.79	6.07	2.71	1.11	0.18	0.09	0.01				100.00
17 m/s ≤ U ₁₅₀ < 19 m/s																	Total

Joint Occurrence table of wind direction vs. wave height
Nautical convention: coming from, clockwise from North

Height: 150m

17 m/s ≤ U₁₅₀ < 19 m/s

Deltares

App. B.2.085

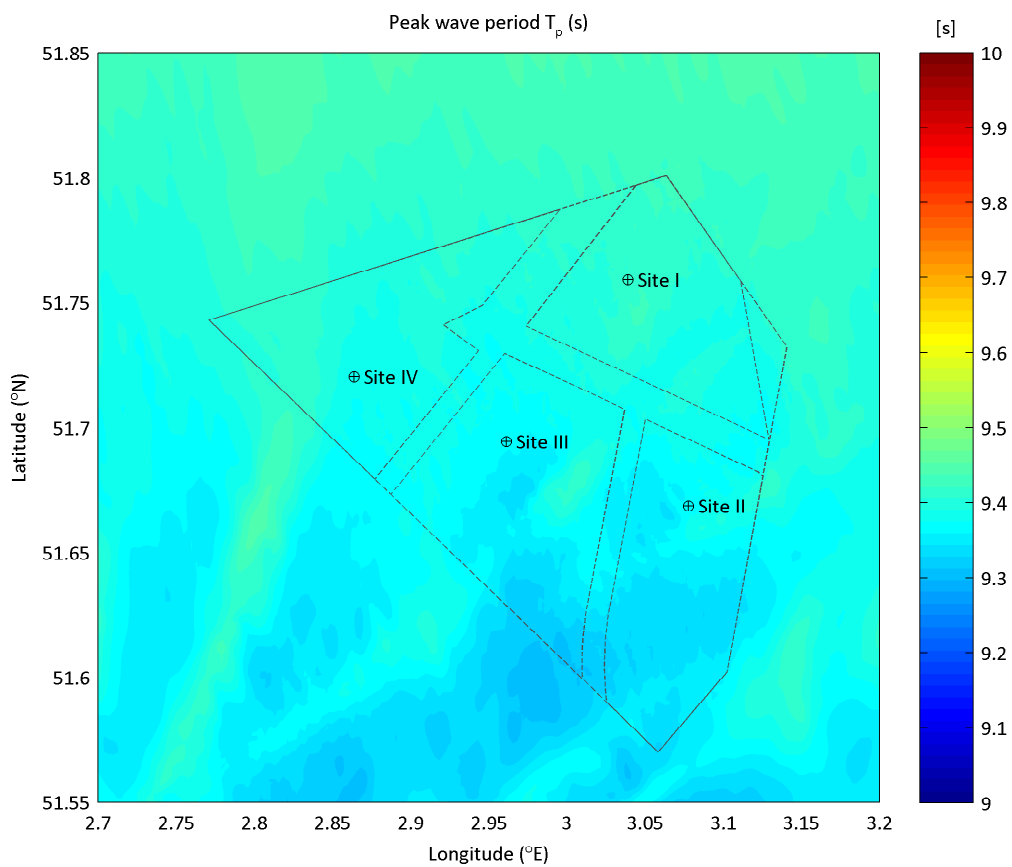
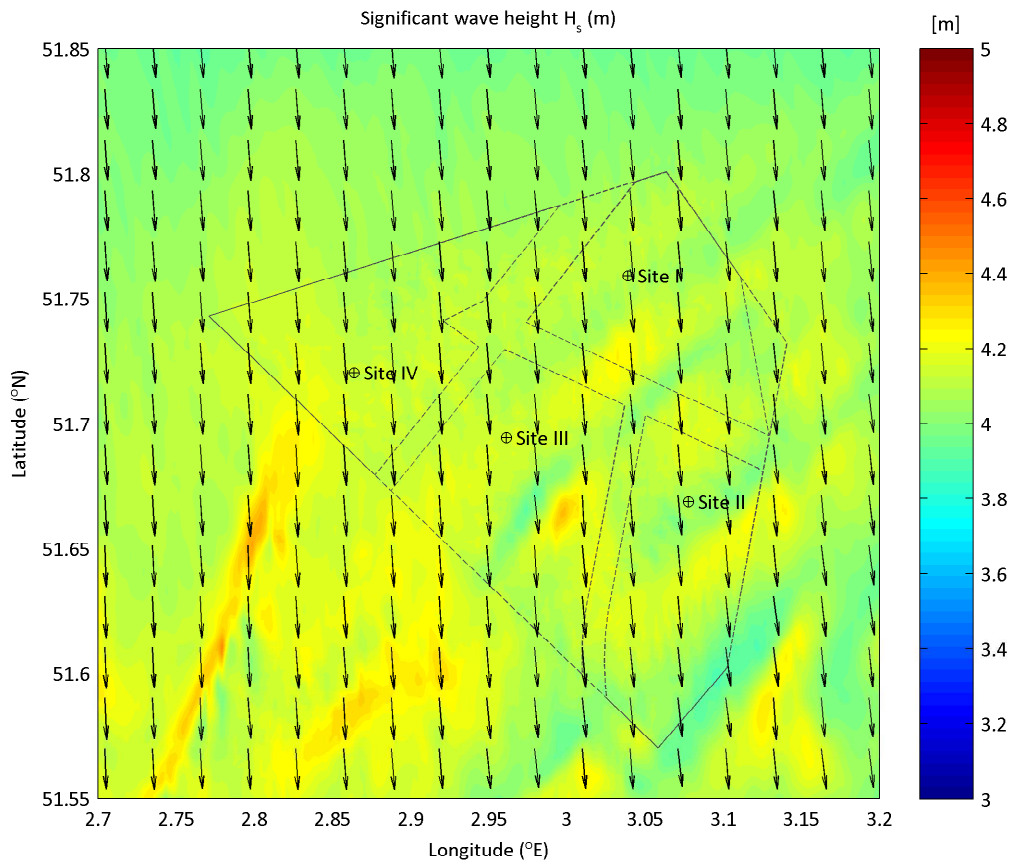
		H _s (m)															
		0.0-0.5	0.5-1.0	1.0-1.5	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-4.5	4.5-5.0	5.0-5.5	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345					0.08	0.19	0.52	0.25	0.46	0.52	0.49	0.33	0.11			2.94
	285-315				0.03	0.25	0.41	0.93	1.42	1.88	0.49	0.22	0.14				5.75
	255-285					0.49	1.12	3.27	3.87	1.47	0.22						10.44
	225-255			0.08	0.95	4.80	12.37	17.06	6.65	0.60	0.05						42.57
	195-225		0.03	0.16	0.93	4.69	9.73	6.49	1.36	0.03							23.41
	165-195		0.03	0.08	0.22	1.88	5.59	2.43	0.11								10.33
	135-165		0.03		0.03	0.14	0.60	0.19									0.98
	105-135					0.03	0.14	0.25									0.41
	75-105						0.14	0.27									0.41
	45-75				0.16	0.03		0.03	0.11								0.33
	15-45				0.25	0.03	0.11	0.19	0.22	0.05	0.30						1.14
	345-15						0.14	0.35	0.25	0.19	0.19	0.16					1.28
			0.08	0.33	2.56	12.40	30.53	31.97	14.23	4.69	1.77	0.87	0.46	0.11			
19 m/s <=U ₁₅₀ <21 m/s																Total	
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 150m					
												19 m/s <=U ₁₅₀ <21 m/s					
Deltares														App. B.2.086			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0		>7.0
Wind direction (° N)	315-345							0.11	0.17	0.51	0.67	0.73	0.51	0.22			2.92
	285-315					0.11	0.06	0.39	0.56	1.69	0.56	0.34	0.51	0.06			4.27
	255-285					0.06	0.34	0.79	2.76	2.98	1.07	0.28					8.27
	225-255			0.11	0.45	1.12	5.06	15.86	18.11	4.22	0.39	0.06					45.39
	195-225				0.06	0.90	5.40	11.75	6.86	1.69							26.66
	165-195			0.06	0.06	0.34	2.19	6.07	1.52	0.11							10.35
	135-165						0.06	0.22									0.28
	105-135																
	75-105																
	45-75																
	15-45				0.06						0.22	0.22					0.51
	345-15							0.11	0.11	0.34	0.45	0.06	0.28				1.35
				0.17	0.62	2.53	13.10	35.32	30.09	11.53	3.37	1.69	1.29	0.28			100.00
21 m/s <=U ₁₅₀ <23 m/s																	Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 150m					
												21 m/s <=U ₁₅₀ <23 m/s					
Deltares														App. B.2.087			

		H _s (m)														Wind direction (° N)	
		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	5.5-6.0	6.0-6.5	6.5-7.0		
	315-345									0.43	0.14			0.86			1.44
	285-315				0.14	0.14	0.29		1.87	1.15	0.86	1.01	0.14				5.60
	255-285						0.57	1.58	1.29	3.45	0.43	0.14					7.47
	225-255			0.14		0.43	6.47	19.68	17.67	6.18	1.29						51.87
	195-225				0.14	1.87	7.18	13.07	4.31	0.29	0.14						27.01
	165-195					0.14	1.29	4.02	0.86								6.32
	135-165																
	105-135																
	75-105																
	45-75																
	15-45																
	345-15								0.14			0.14					0.29
					0.14	0.29	2.59	15.80	38.36	26.58	11.21	2.73	1.29	1.01	100.00		
23 m/s <=U ₁₅₀ <25 m/s																	Total
Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North												Height: 150m					
												23 m/s <=U ₁₅₀ <25 m/s					
Deltares														App. B.2.088			

		H _s (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	5.5-6.0	6.0-6.5	6.5-7.0	>7.0								
Wind direction (° N)	315-345													1.88			1.88							
	285-315							0.63				0.63	1.25	0.63			3.13							
	255-285									1.88	1.25	3.13	0.63	2.50			9.38							
	225-255							0.63	1.25	6.88	16.25	13.75	7.50	1.25	0.63		48.13							
	195-225								4.38	8.75	11.25	5.63					30.00							
	165-195								1.88	2.50		3.13					7.50							
	135-165																							
	105-135																							
	75-105																							
	45-75																							
	15-45																							
	345-15																							
																1.25	7.50	18.13	29.38	24.38	11.88	4.38	3.13	100.00
U ₁₅₀ >=27 m/s																Total								

Joint Occurrence table of wind direction vs. wave height Nautical convention: coming from, clockwise from North	Height: 150m	
	U ₁₅₀ >=27 m/s	
Deltares		App. B.2.090



Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

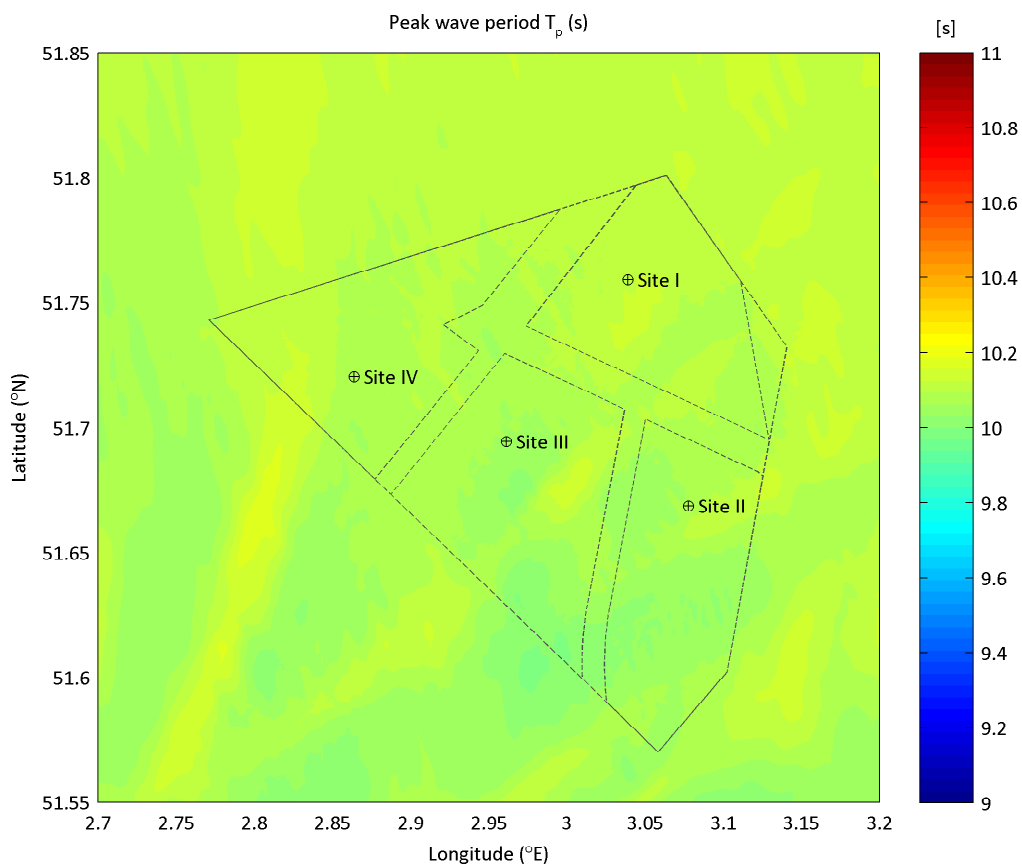
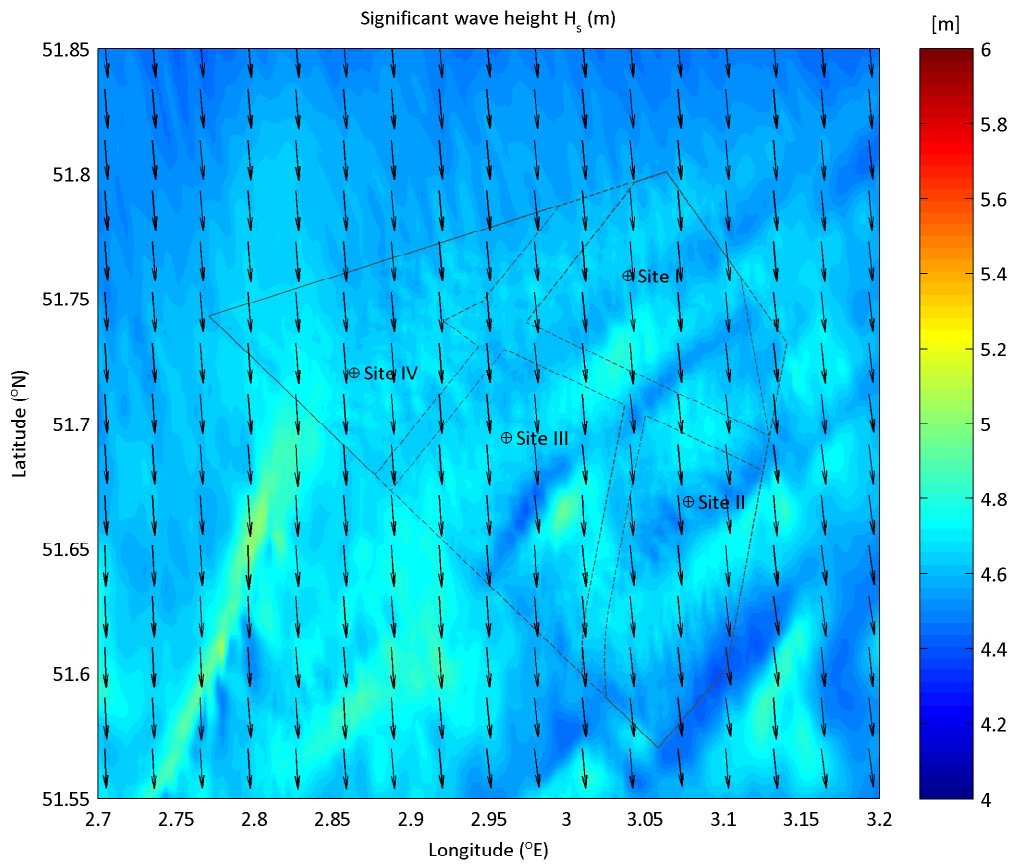
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.001



Extreme wave condition from Sector345 (°N) - 15 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

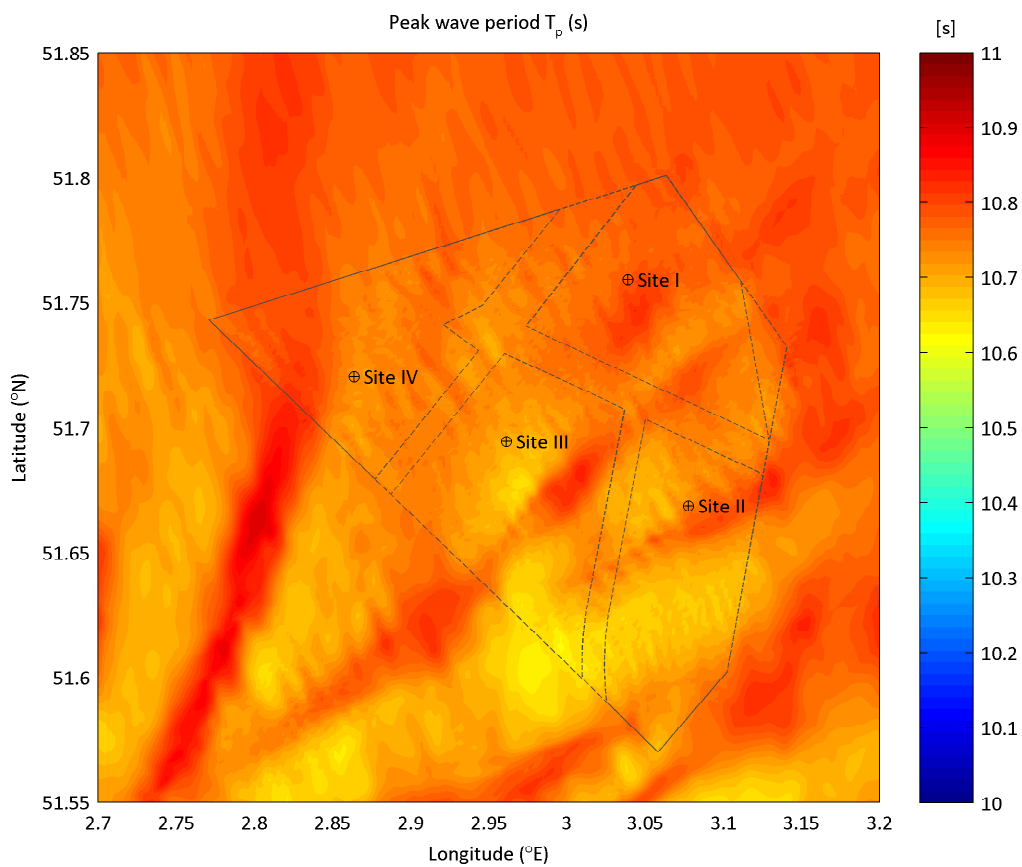
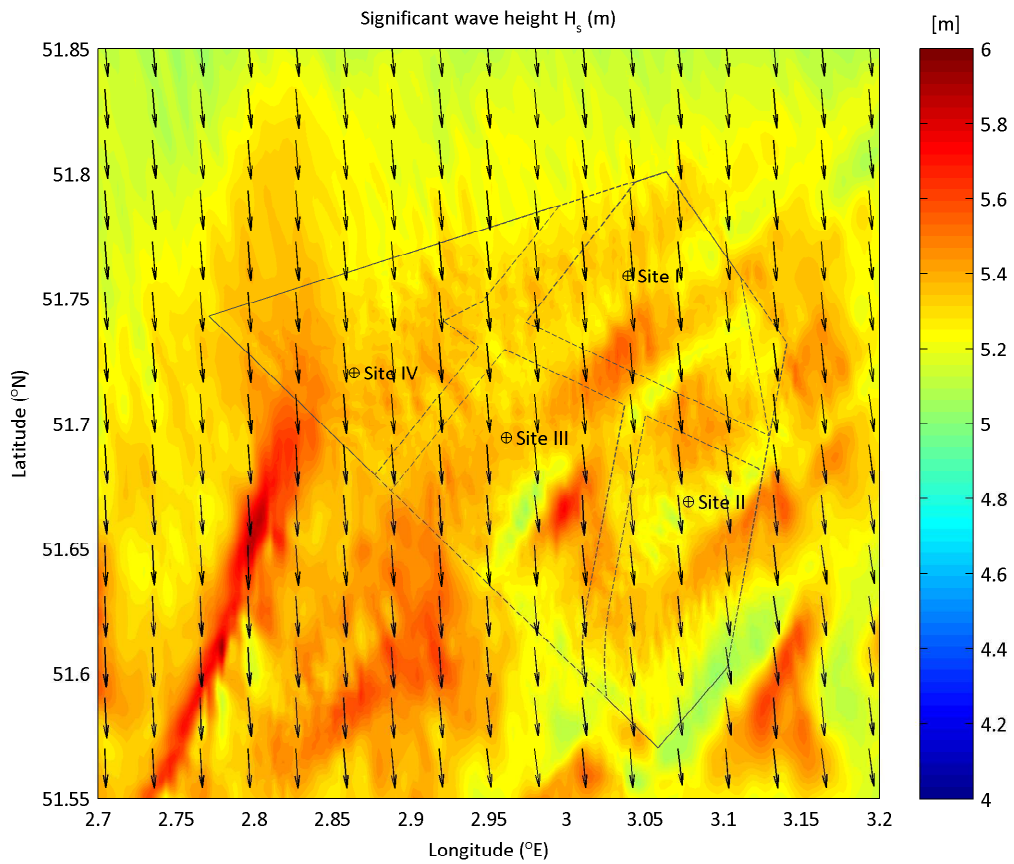
Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.002



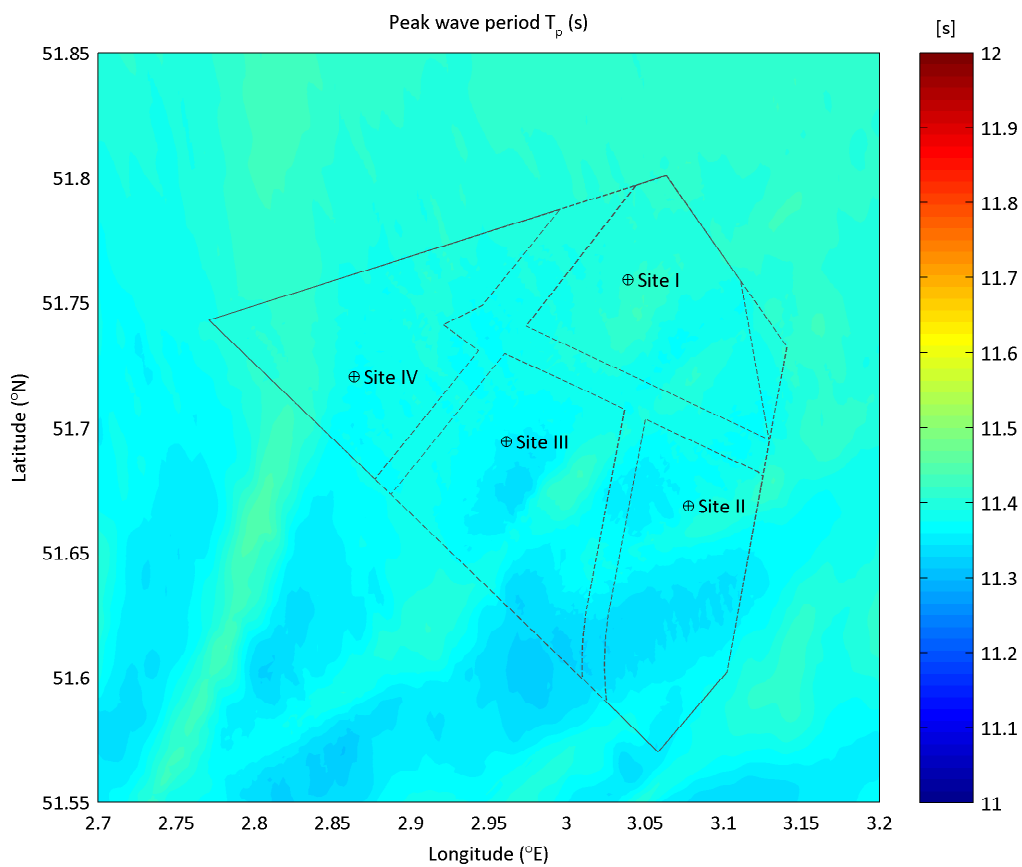
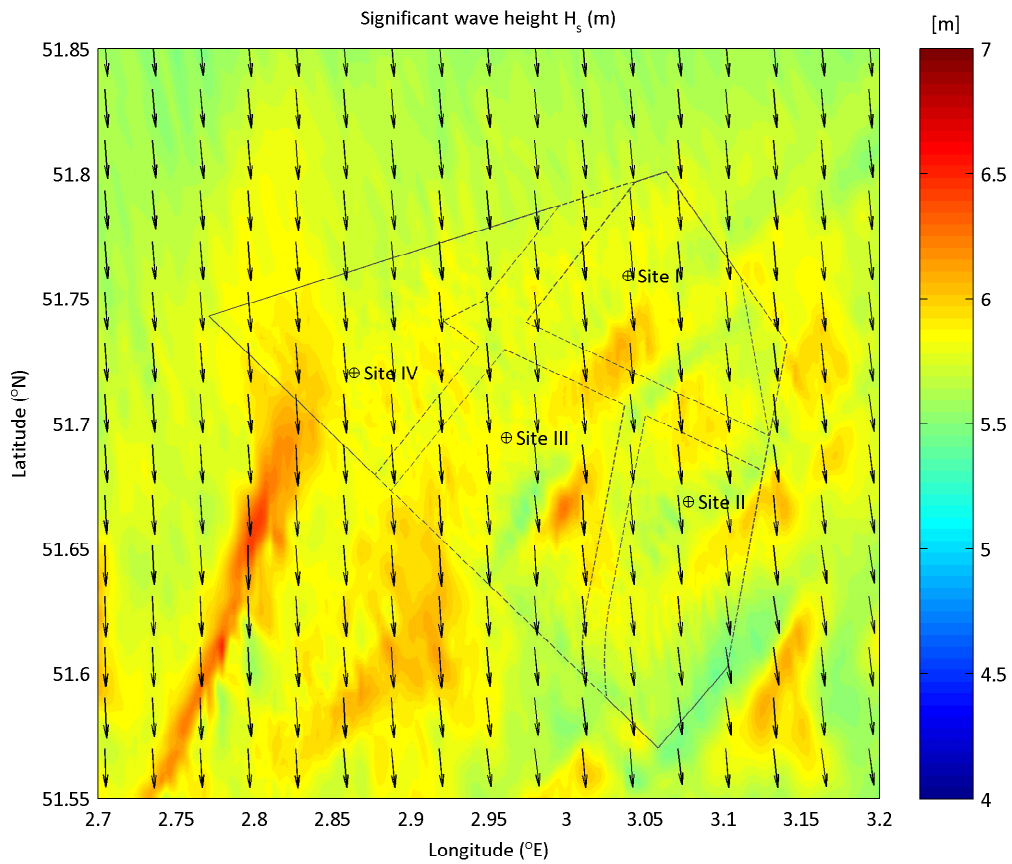
Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.003



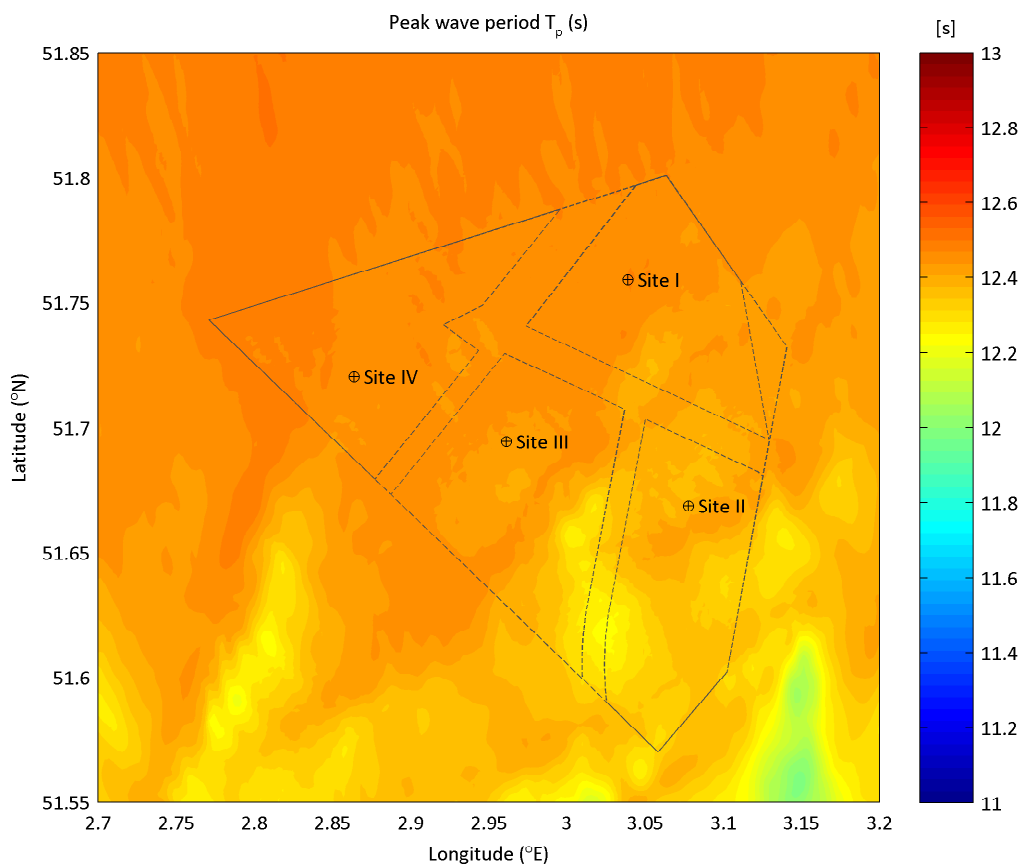
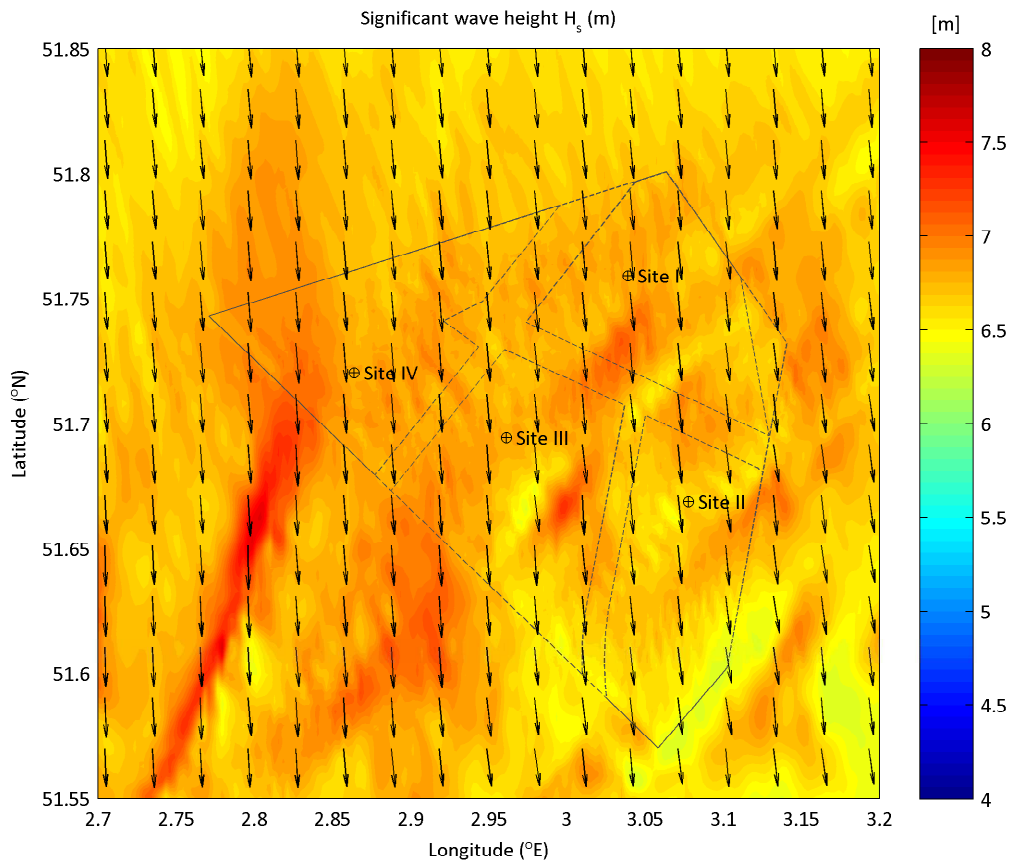
Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.004



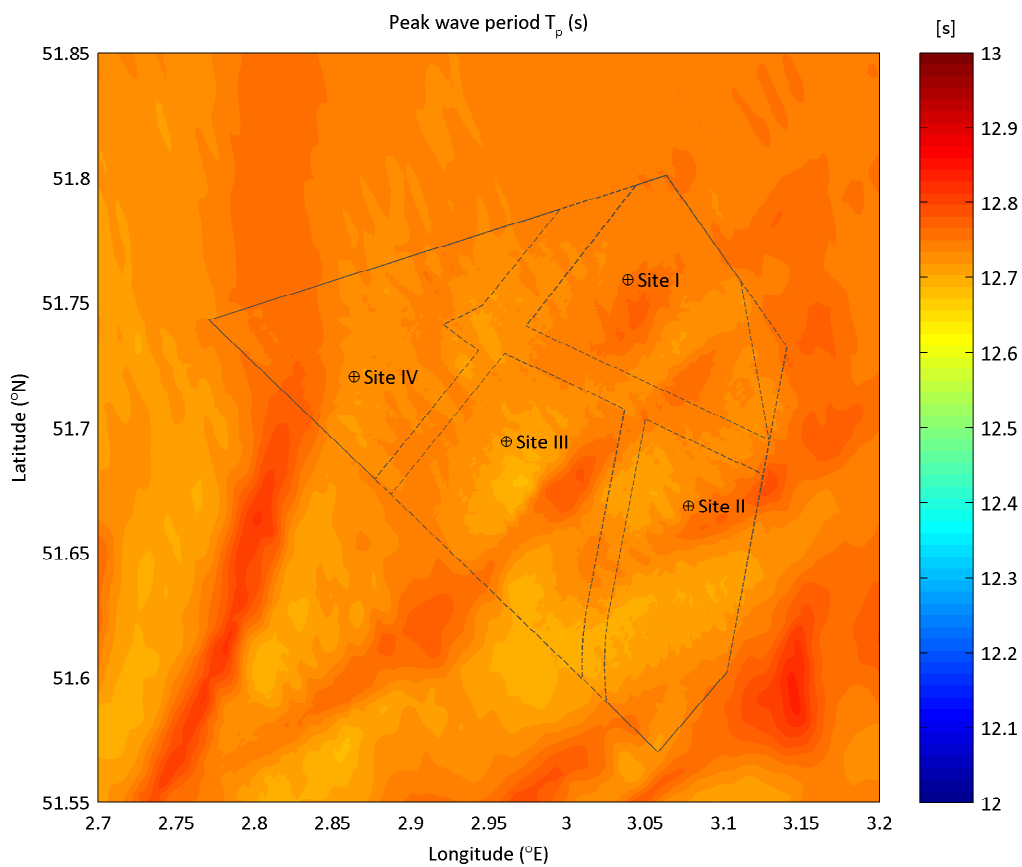
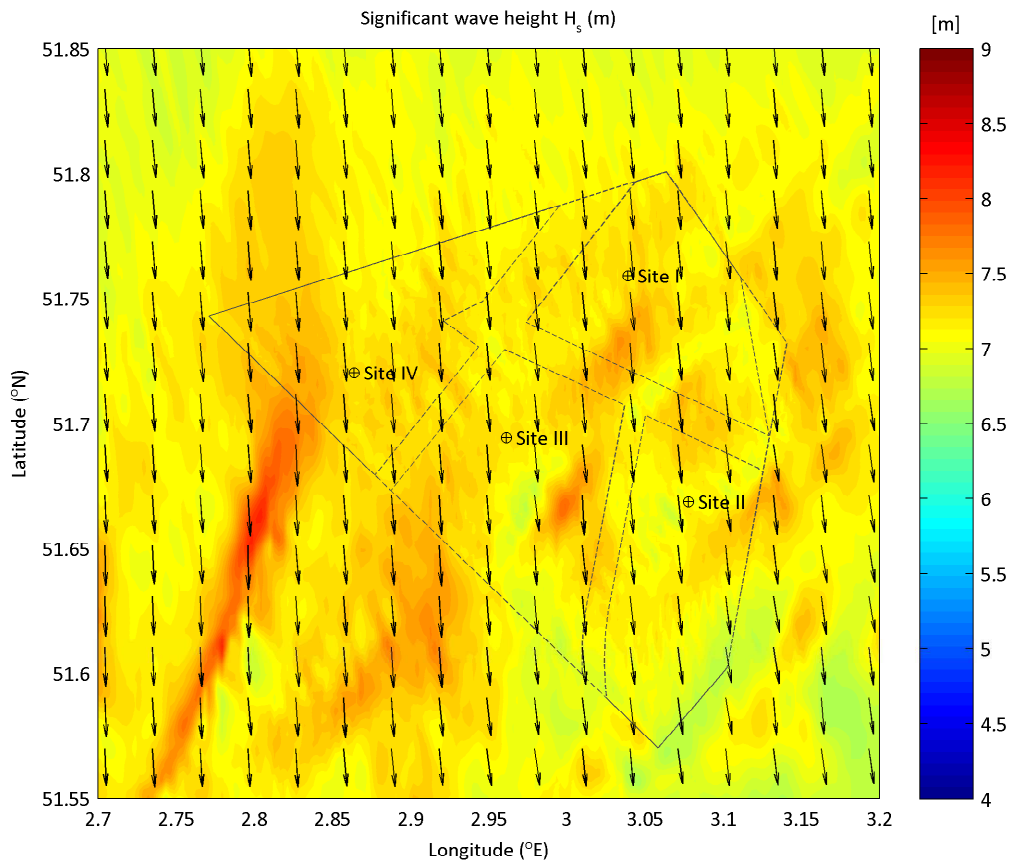
Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.005



Extreme wave condition from Sector345 (°N) - 15 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

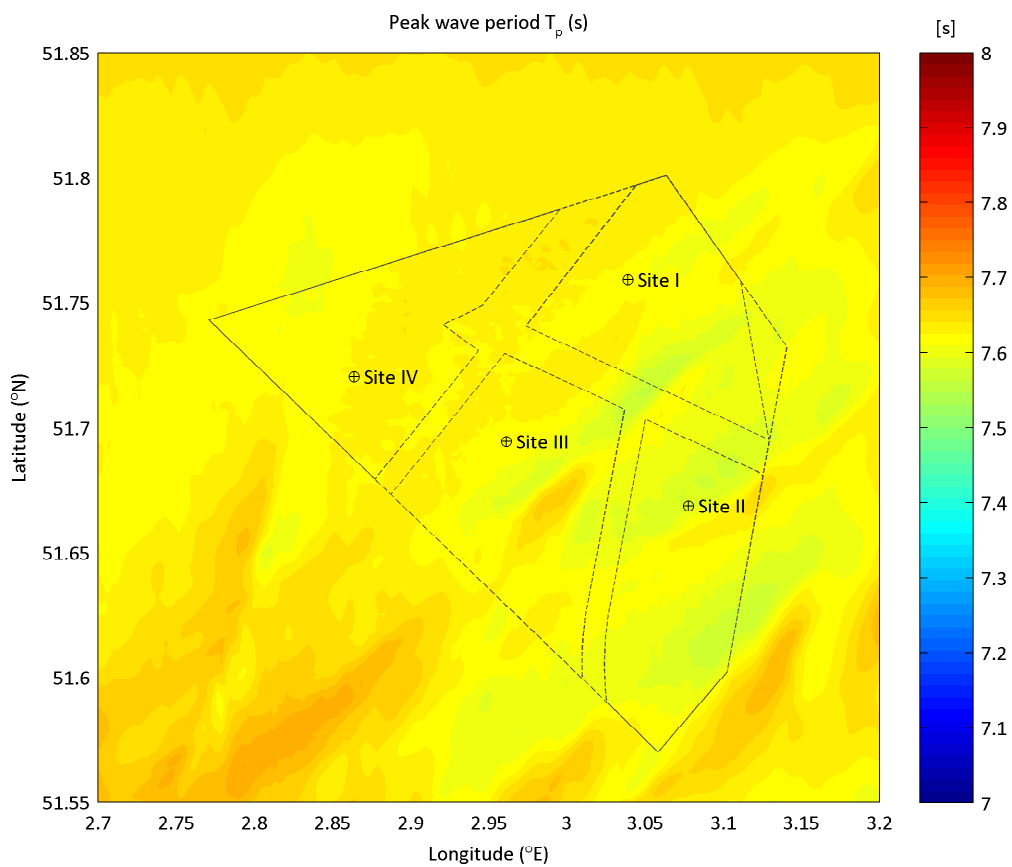
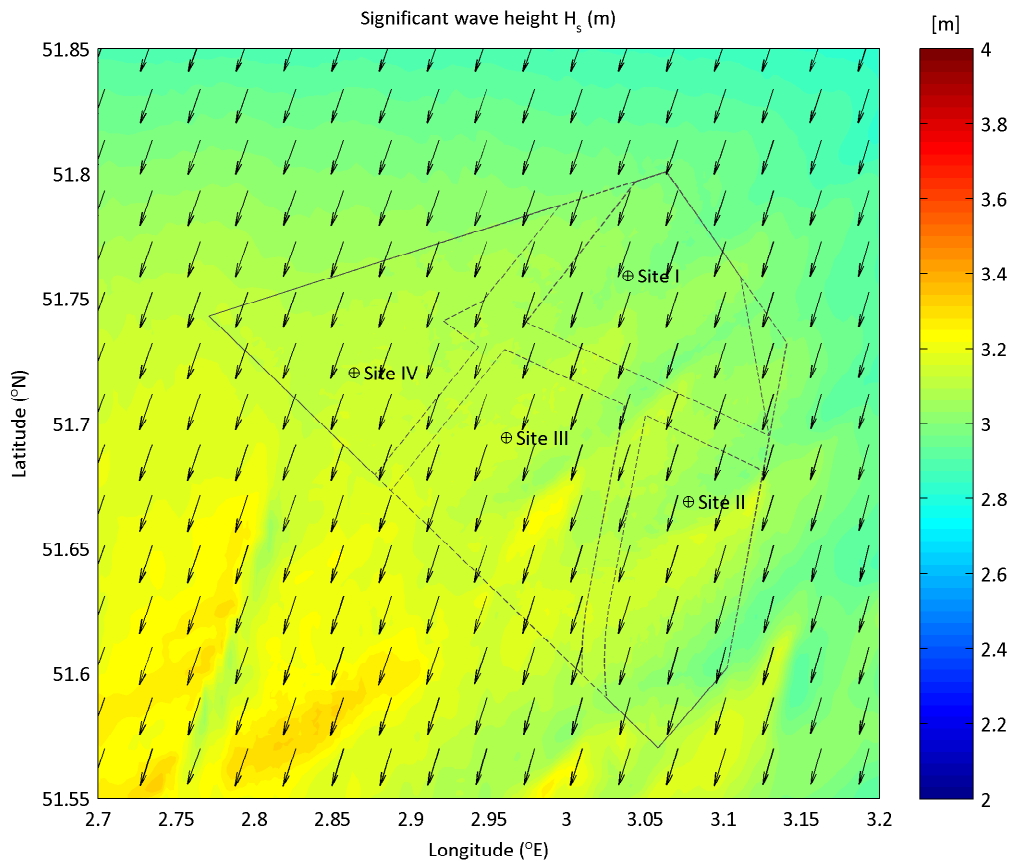
Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.006



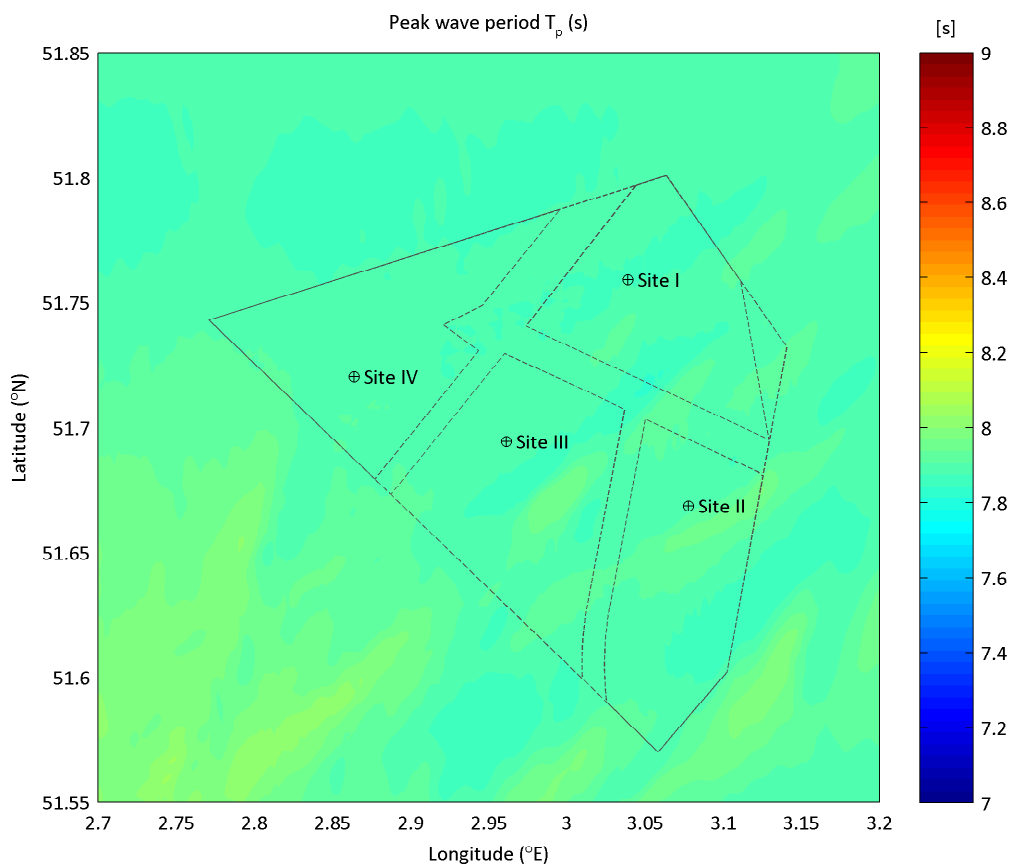
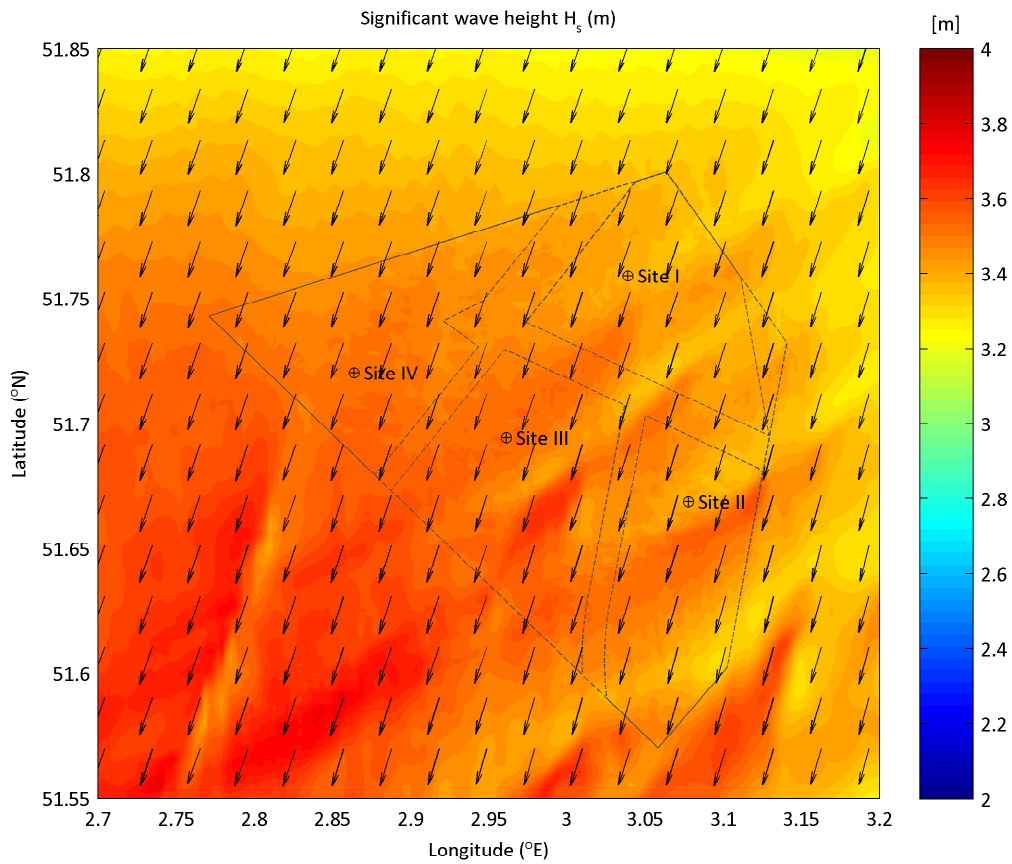
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.007



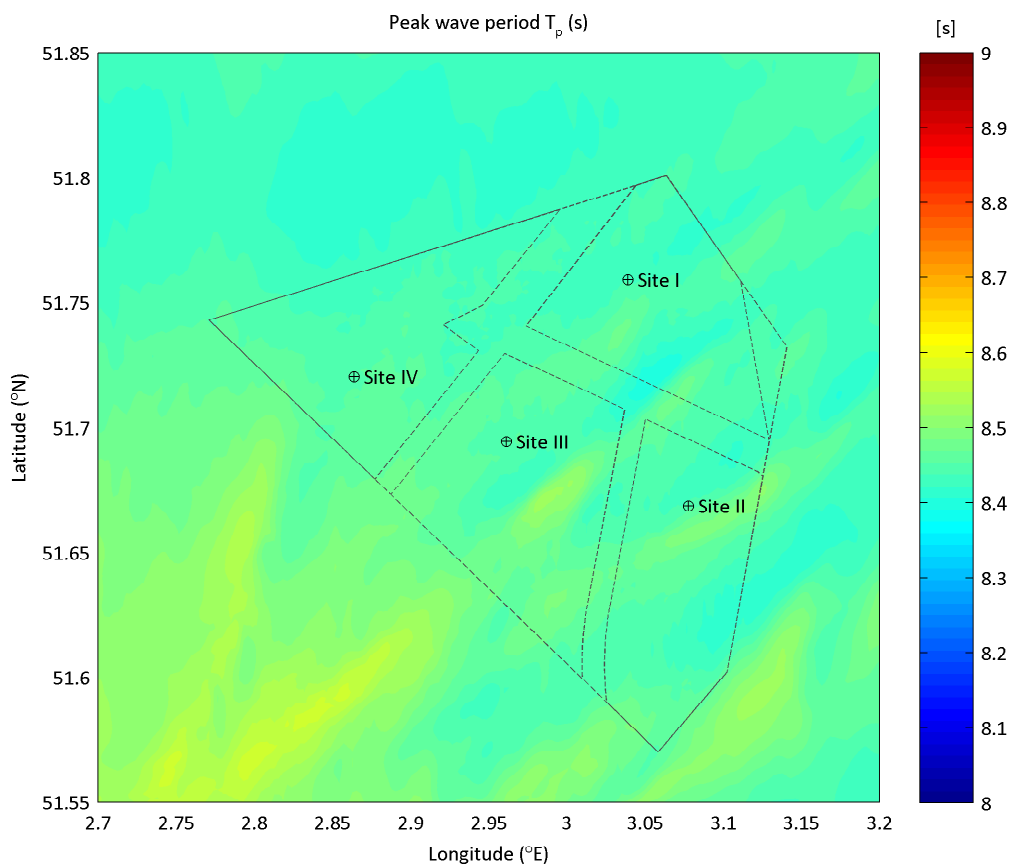
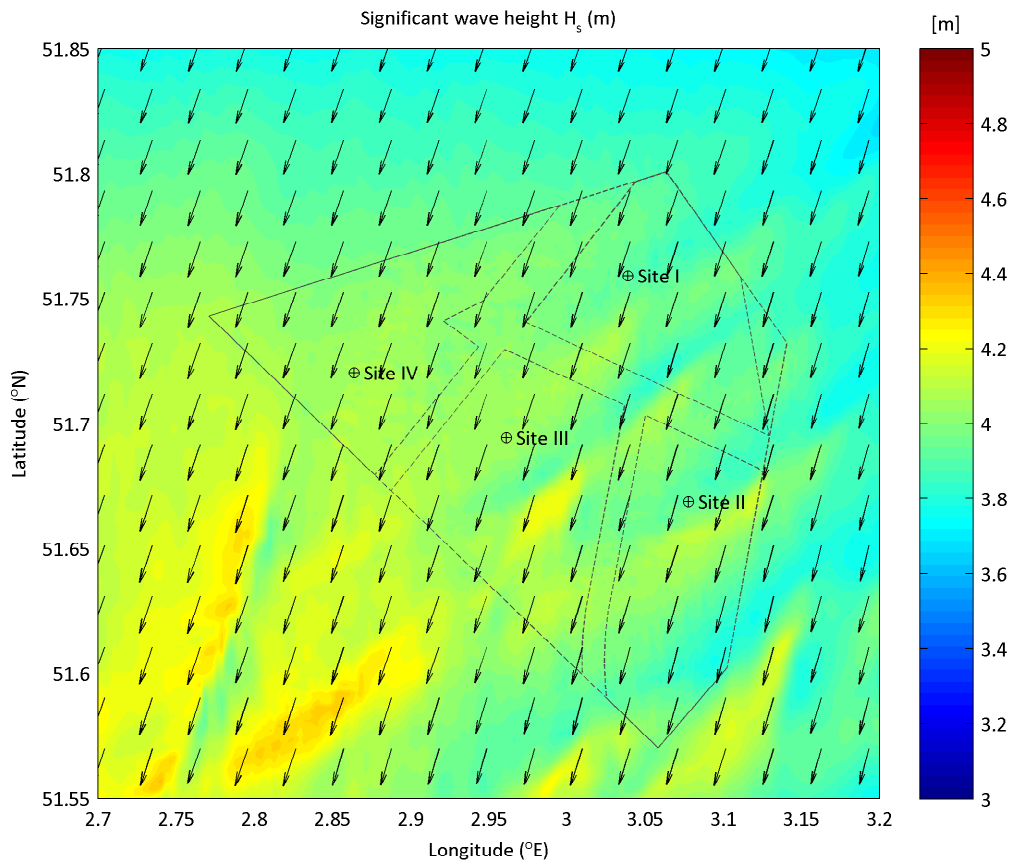
Extreme wave condition from Sector15 (°N) - 45 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

maximum still water level

App. B.3.008



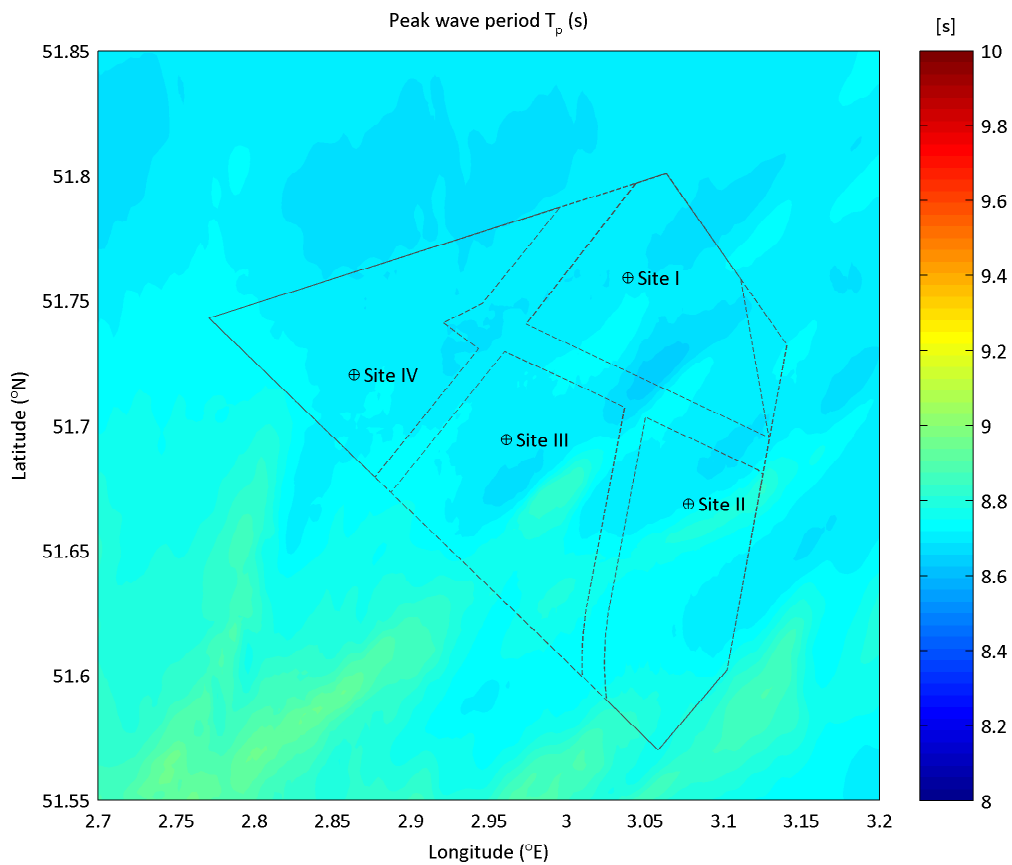
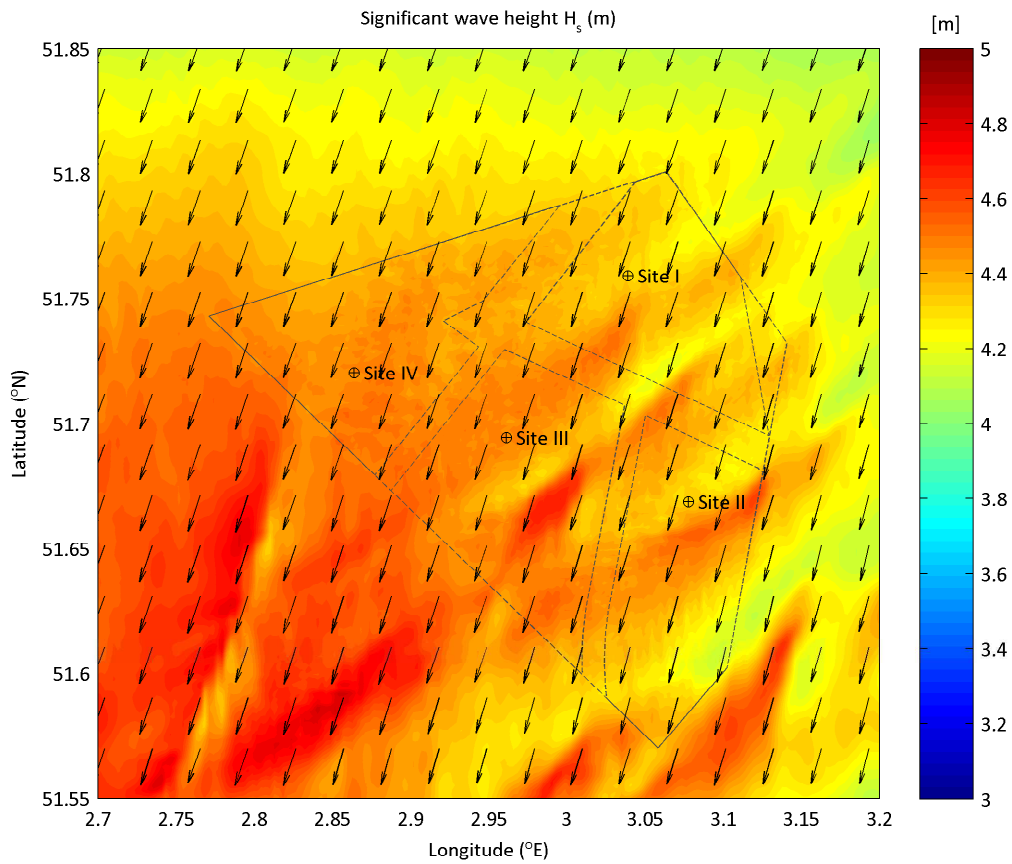
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.009



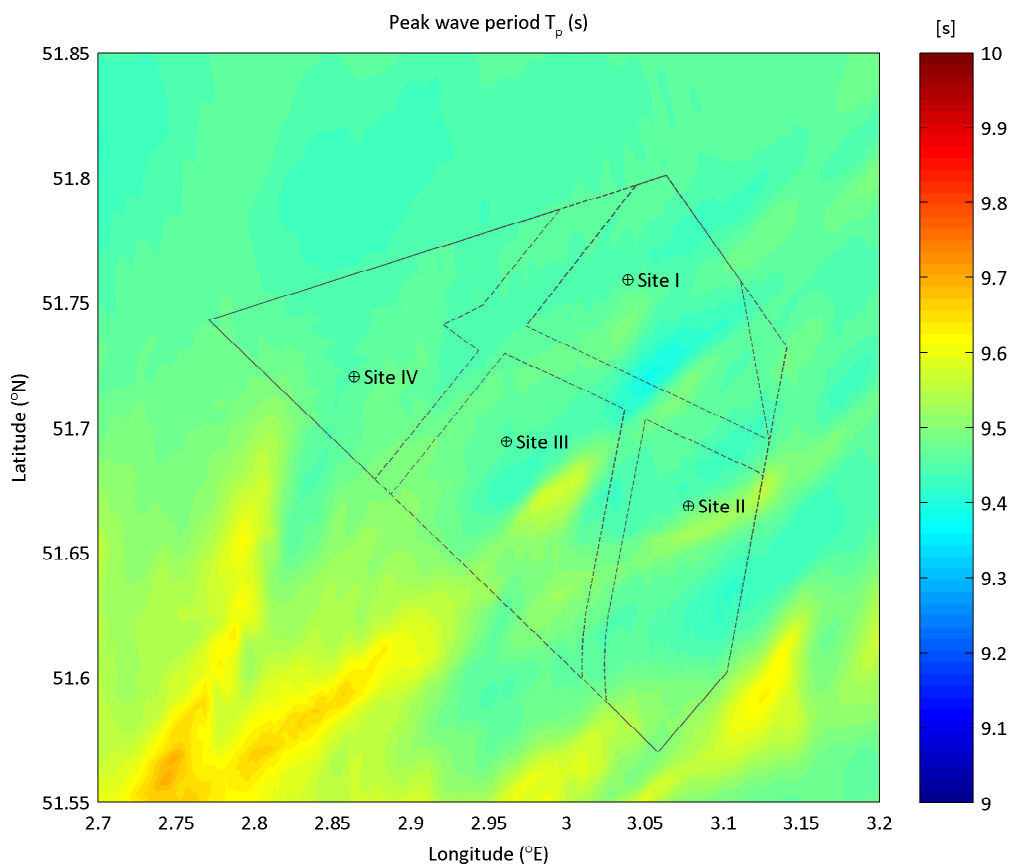
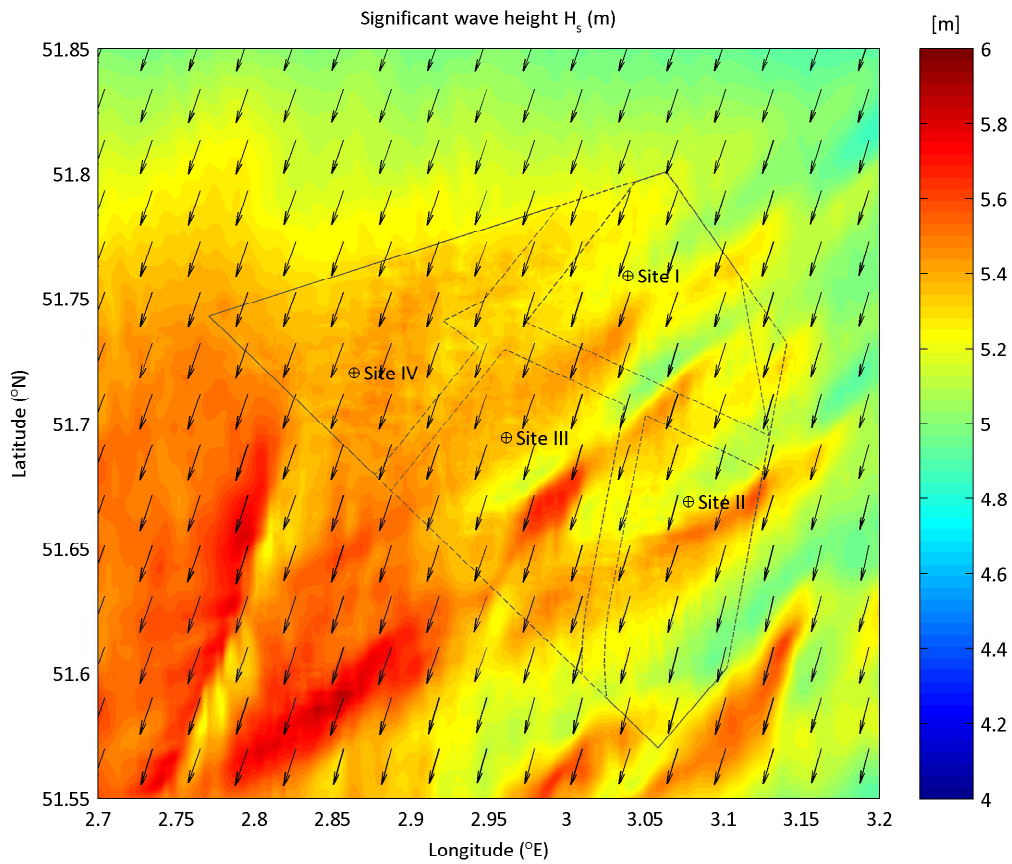
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.010



Extreme wave condition from Sector15 (°N) - 45 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

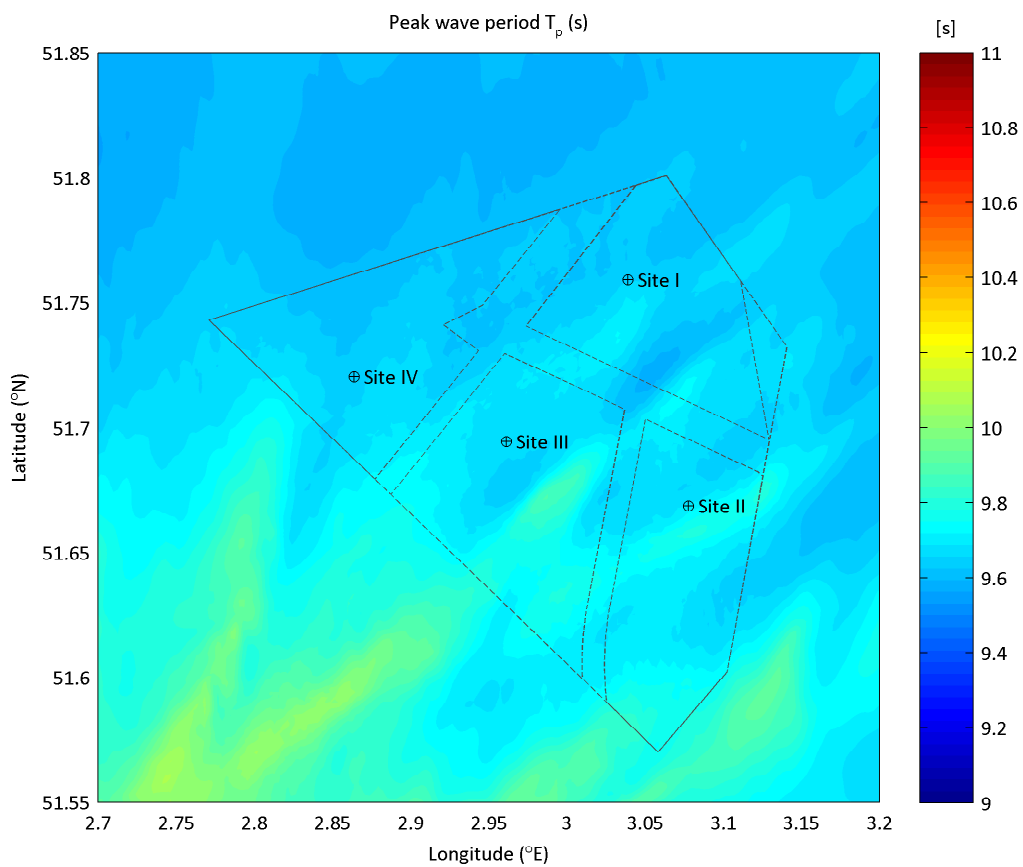
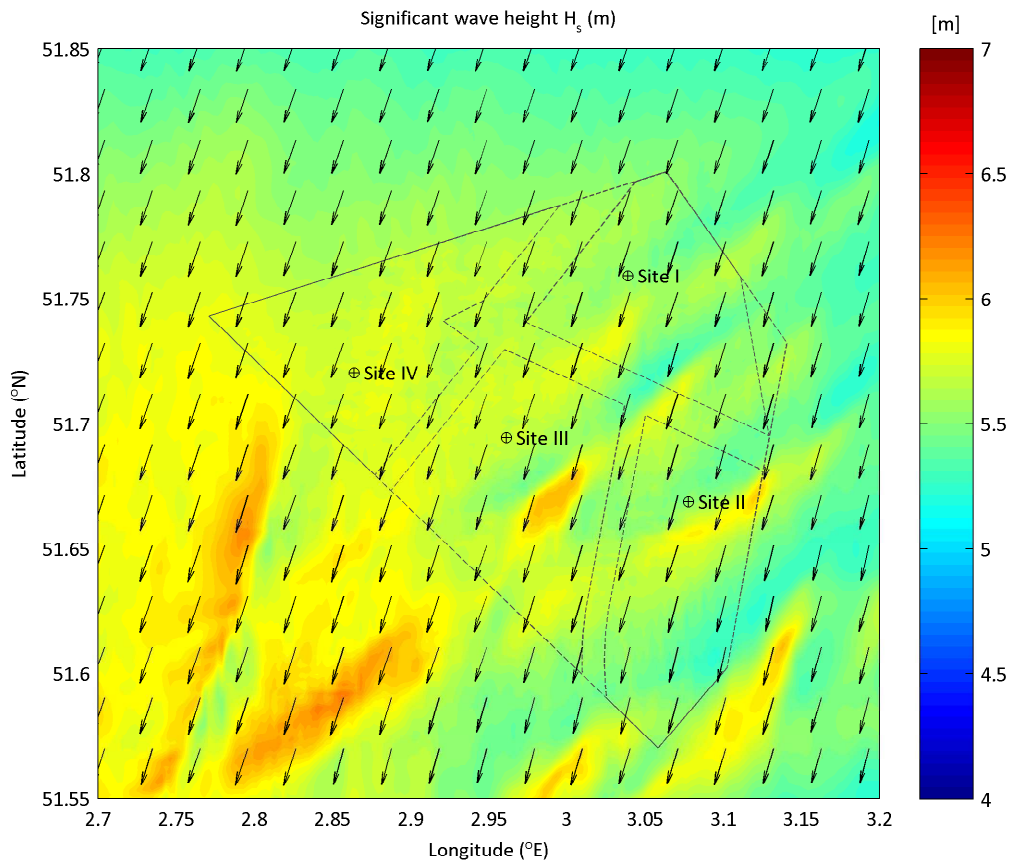
Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.011



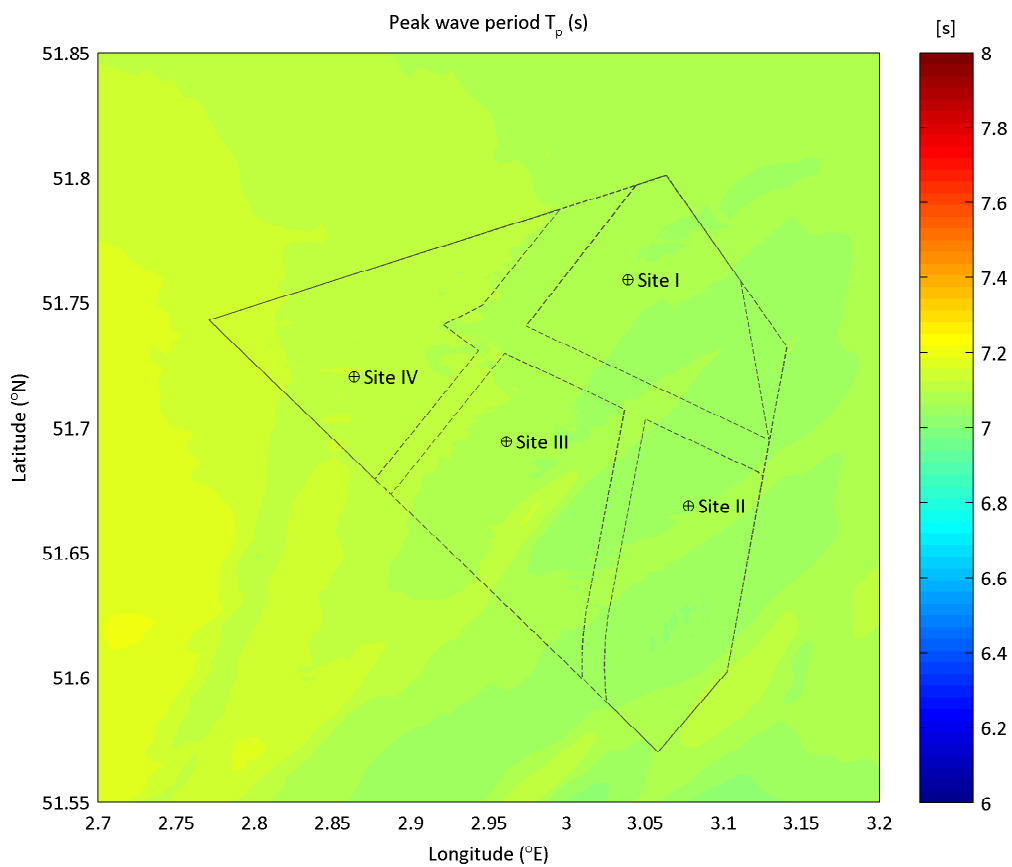
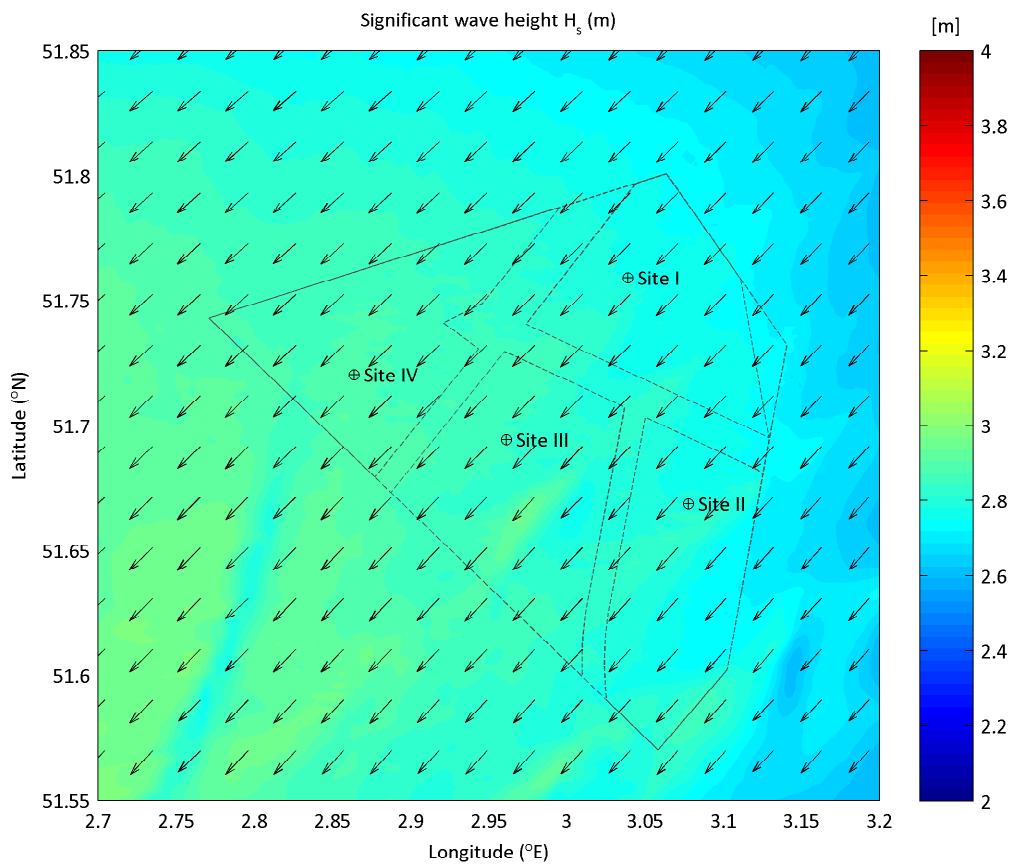
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

maximum still water level

App. B.3.012



Extreme wave condition from Sector45 (°N) - 75 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

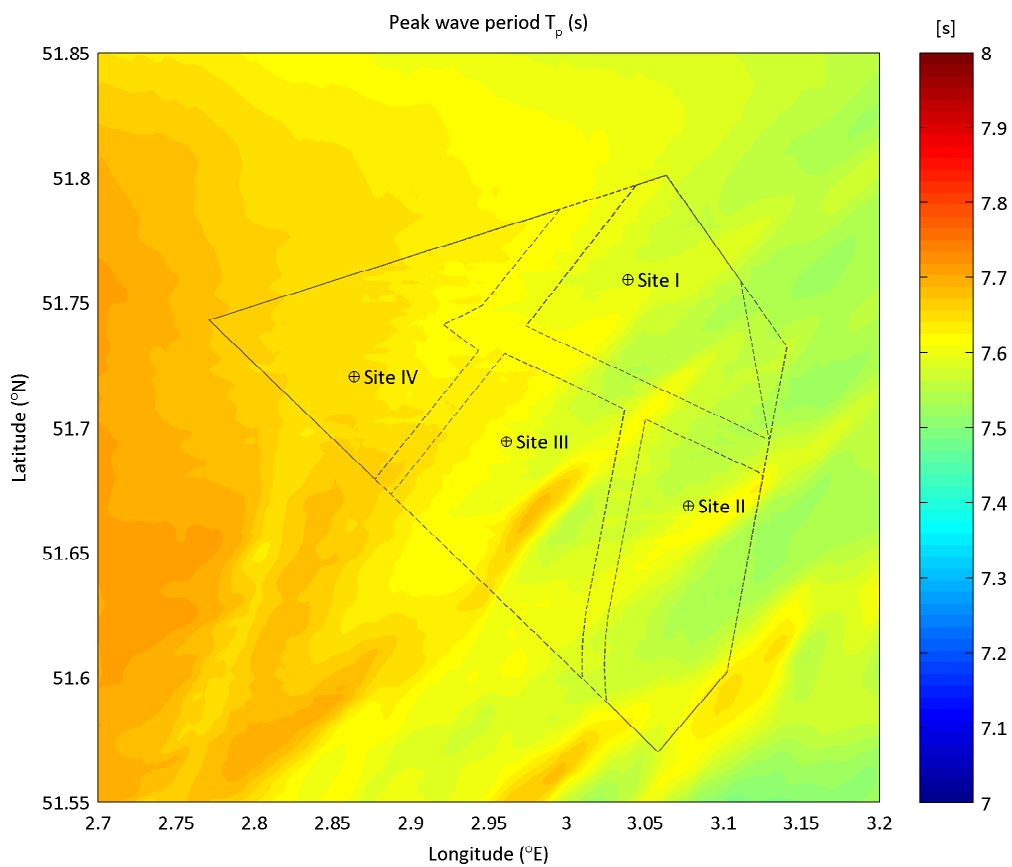
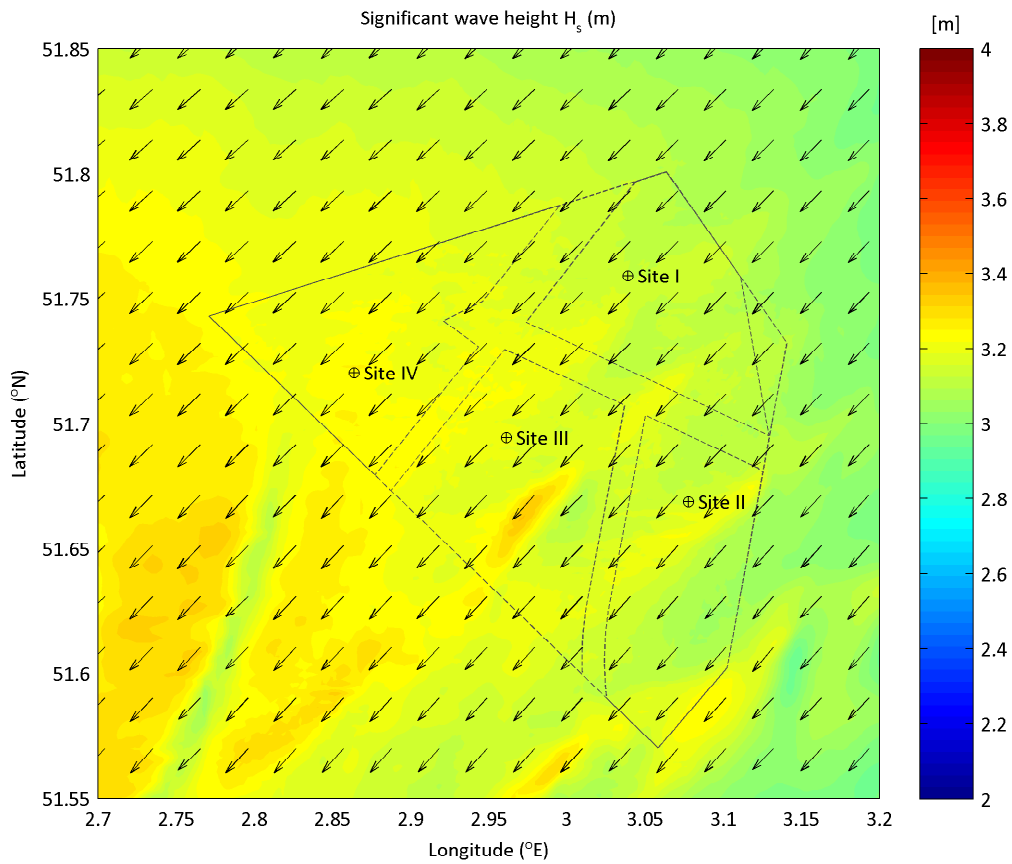
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.013



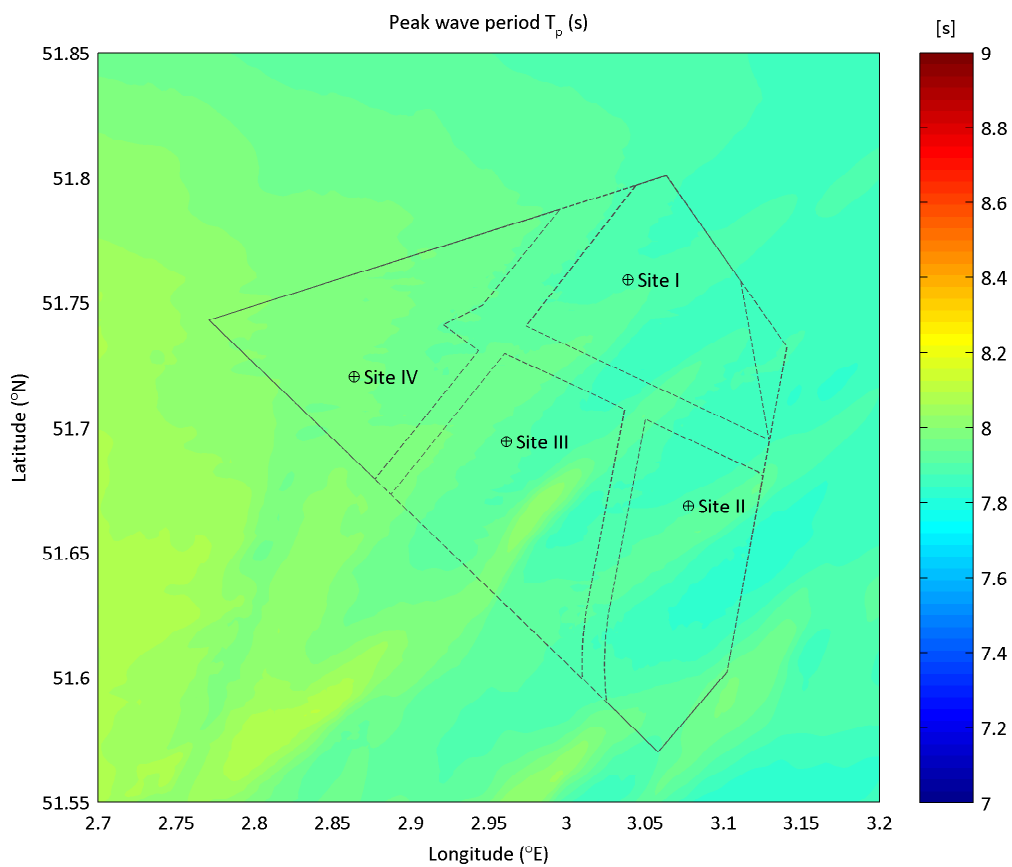
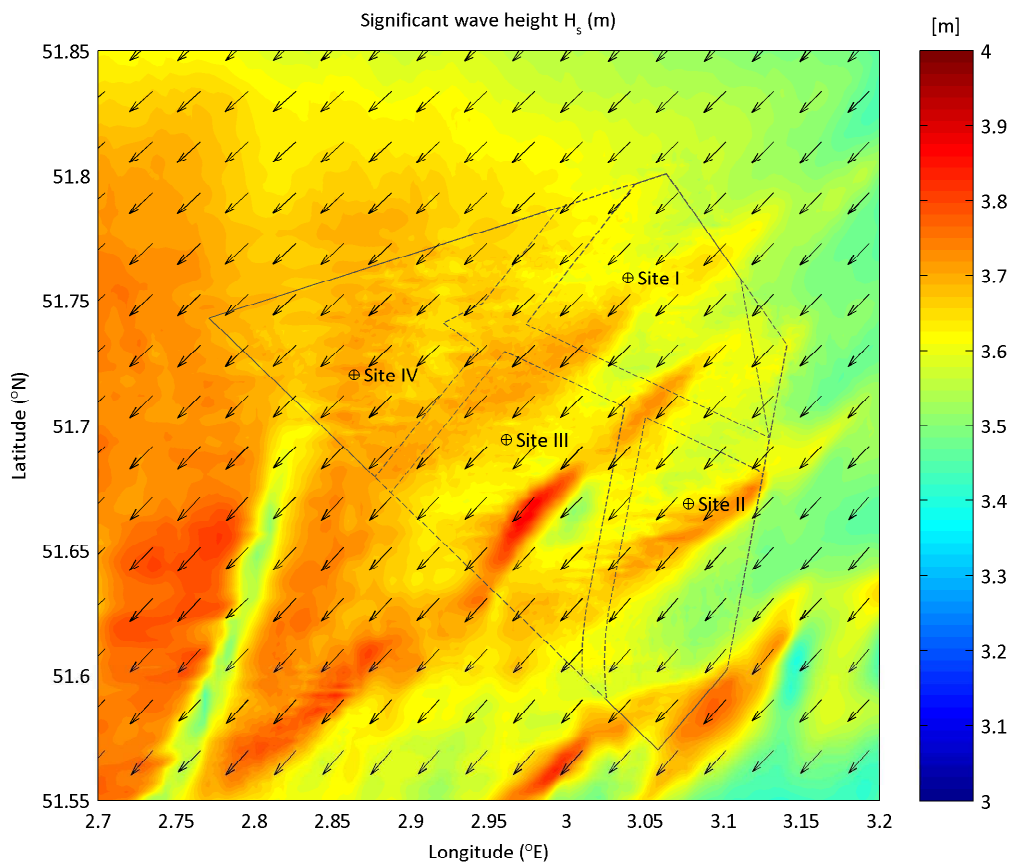
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

maximum still water level

App. B.3.014



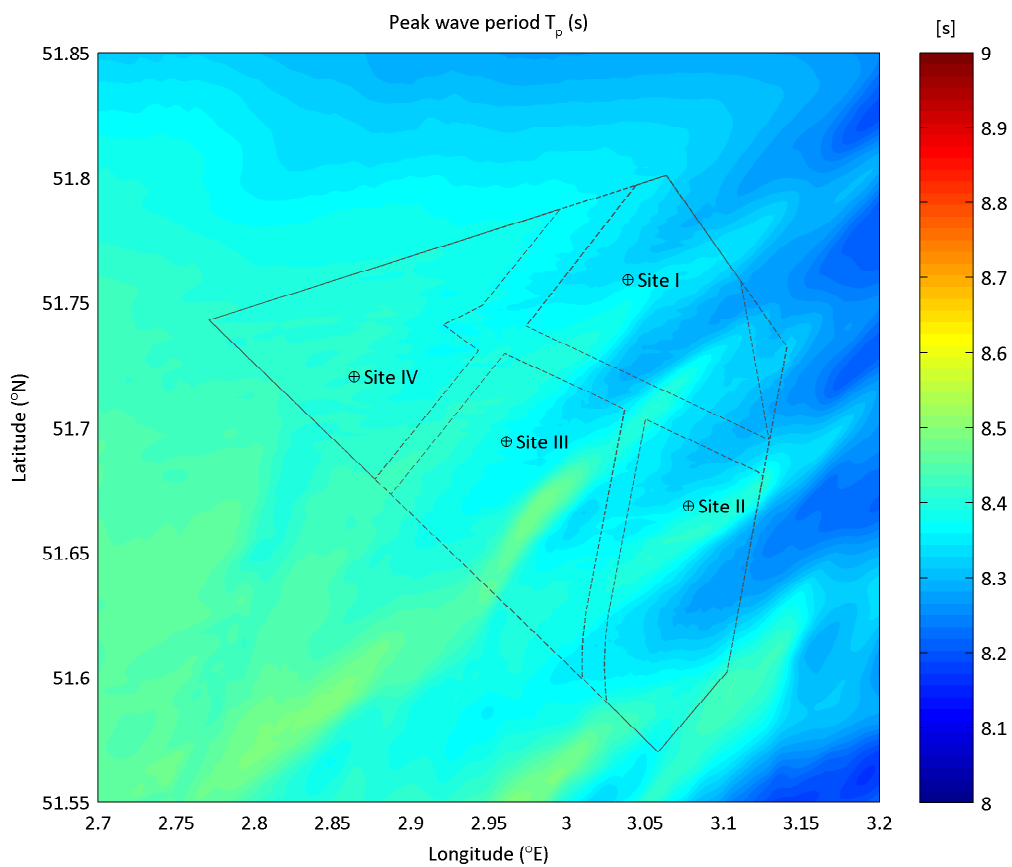
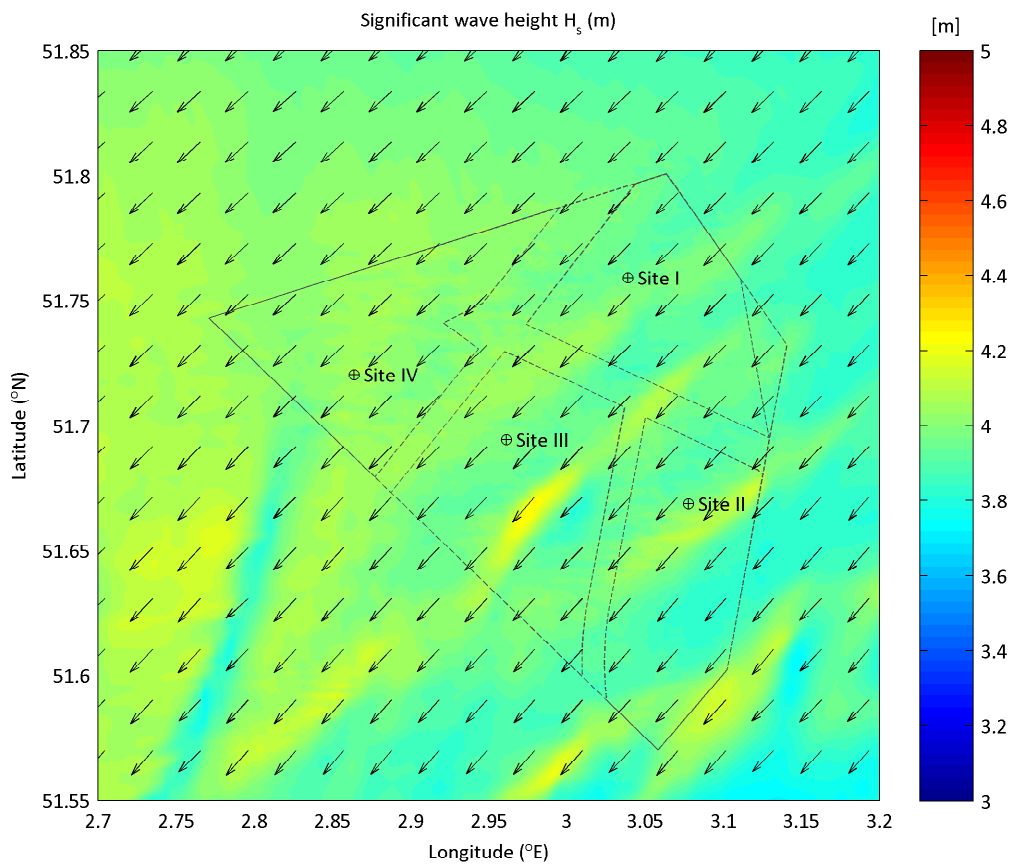
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.015



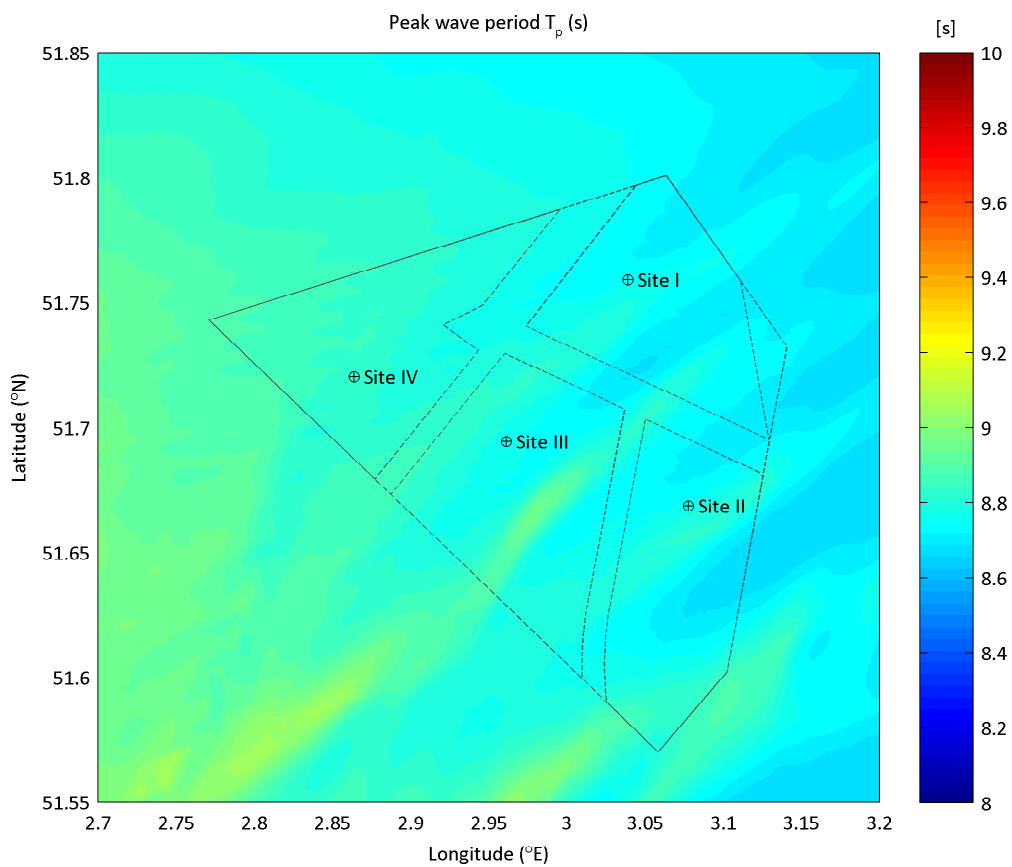
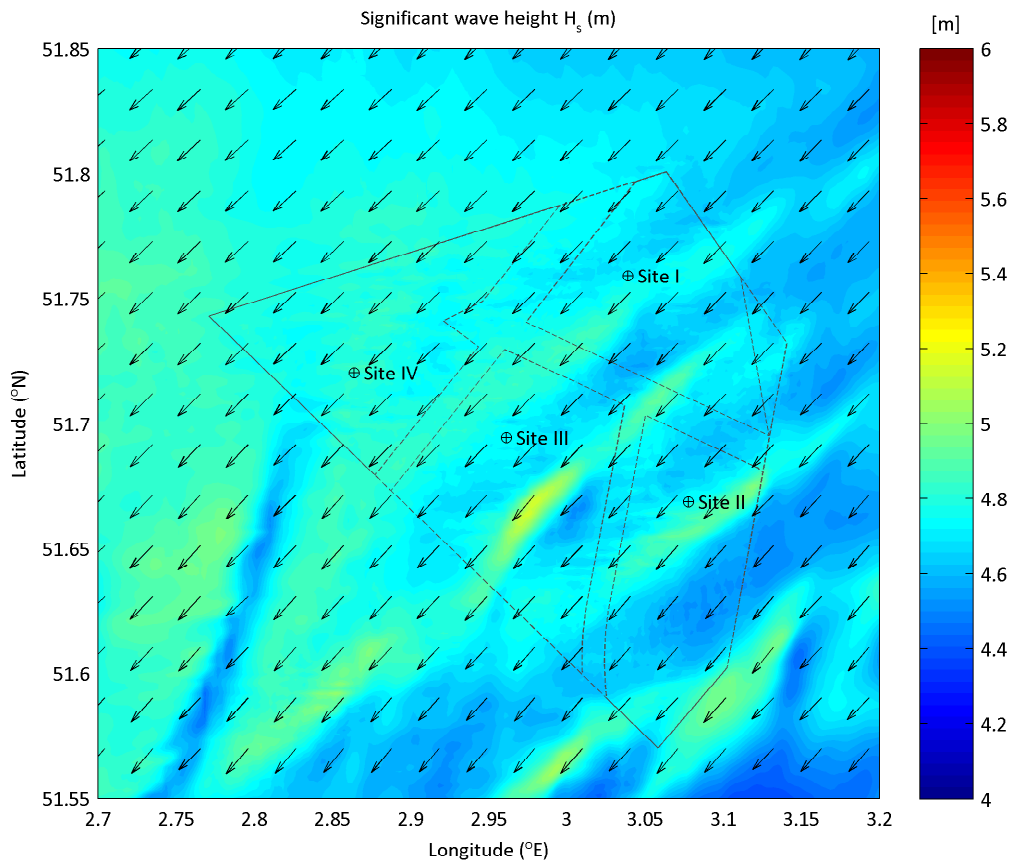
Extreme wave condition from Sector45 (°N) - 75 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.016



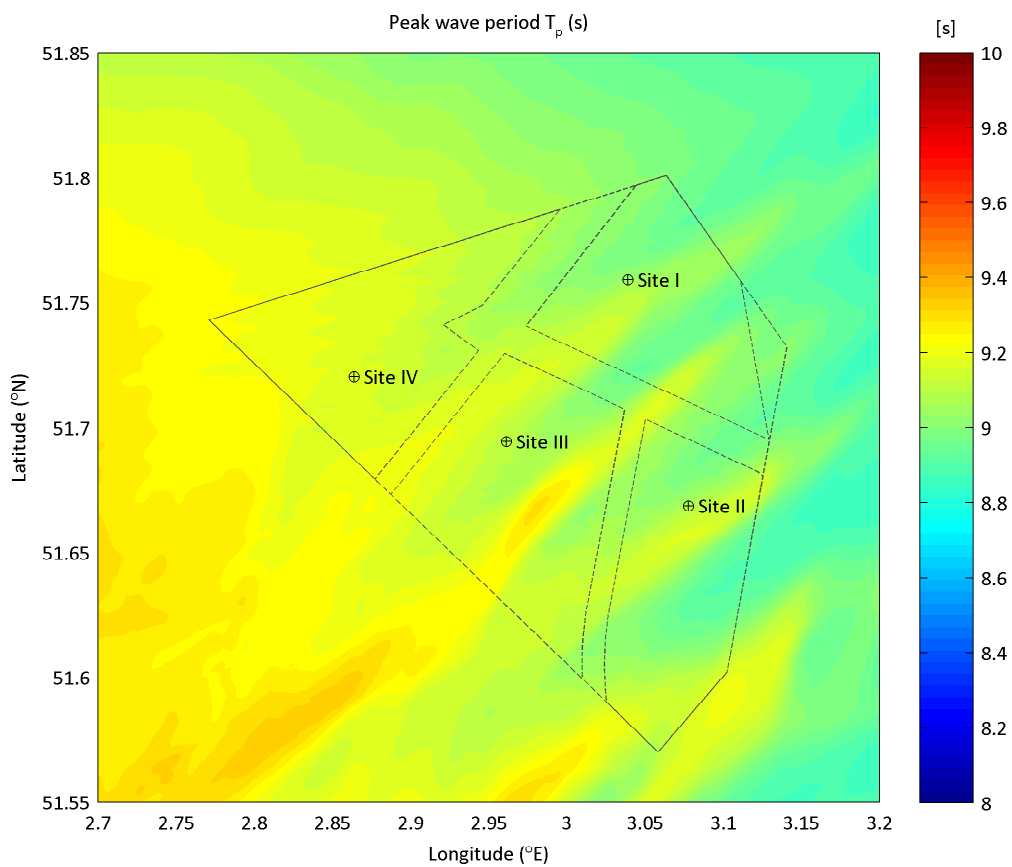
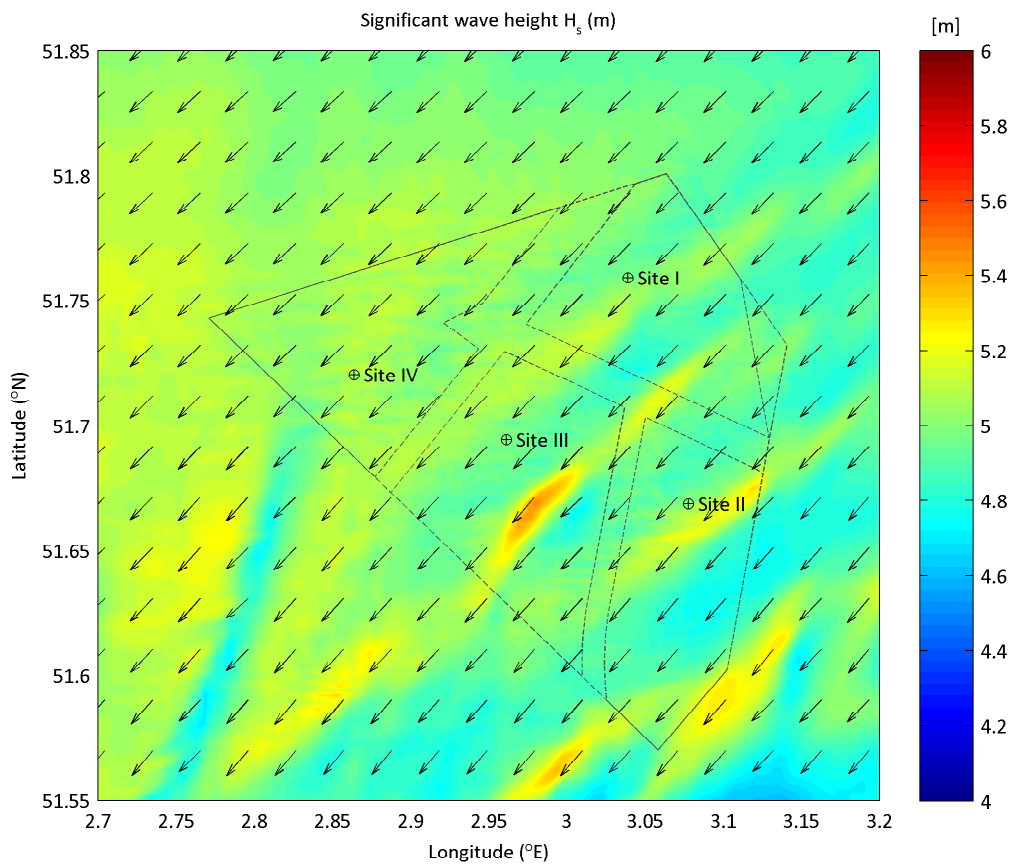
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

maximum still water level

App. B.3.017



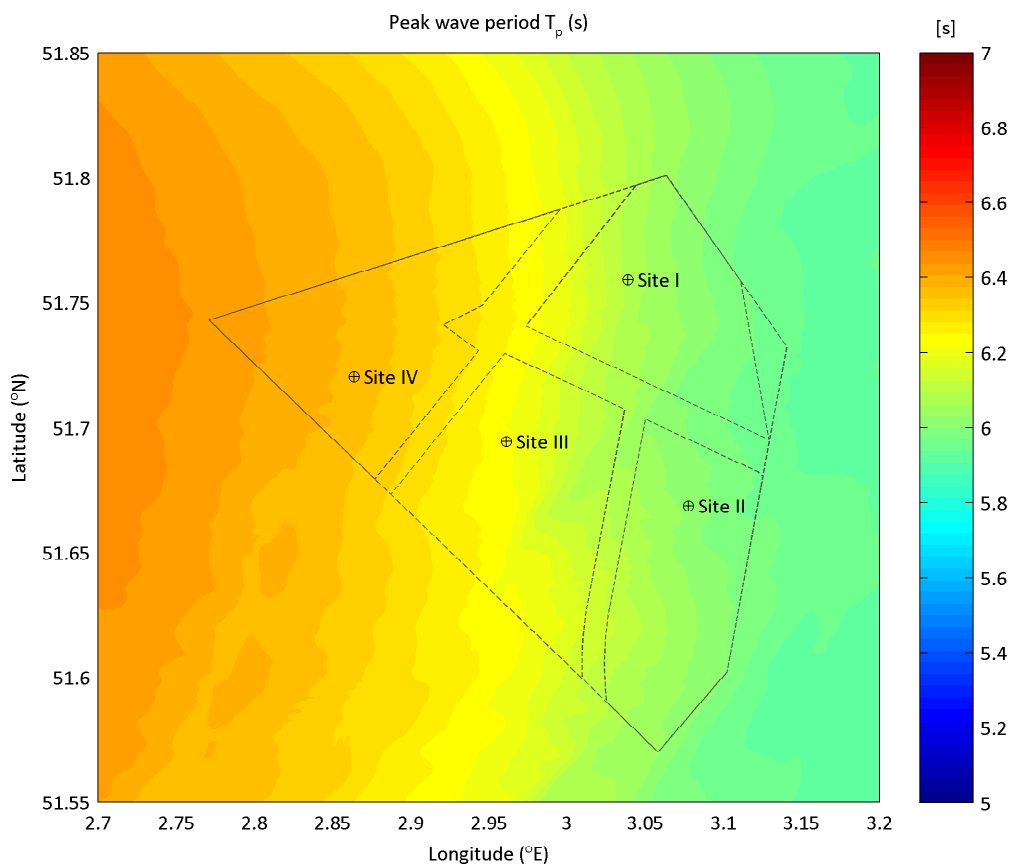
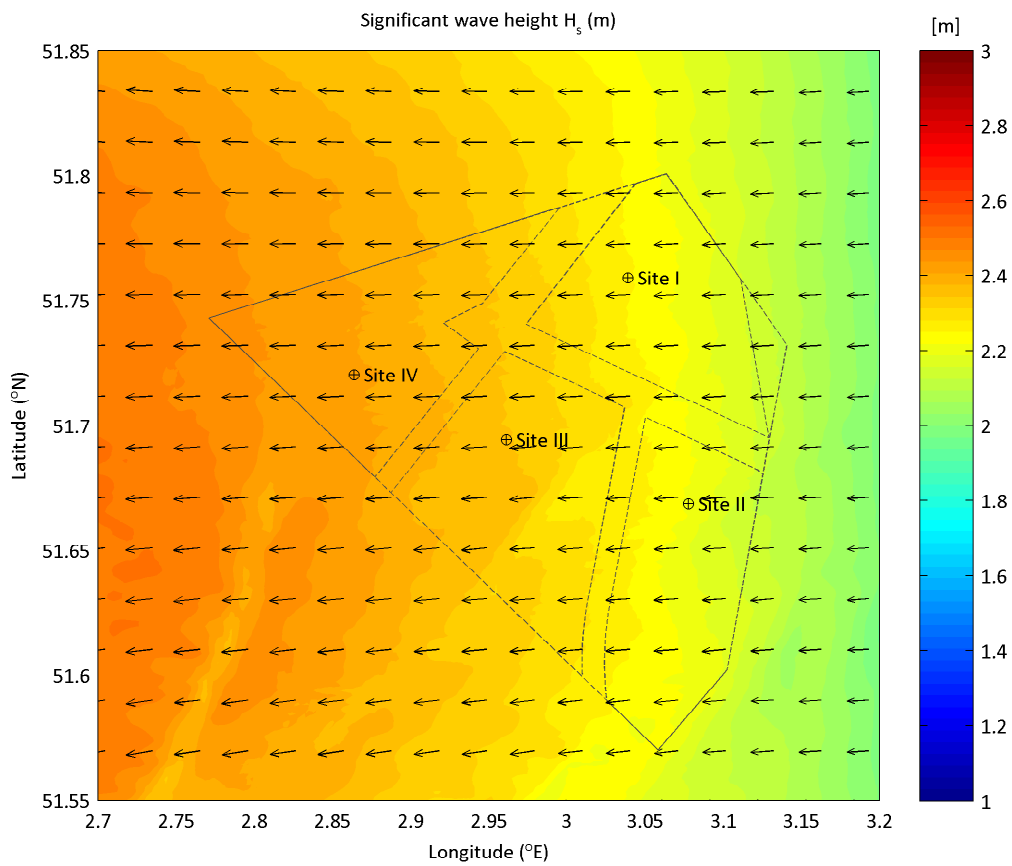
Extreme wave condition from Sector45 (°N) - 75 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.018



Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

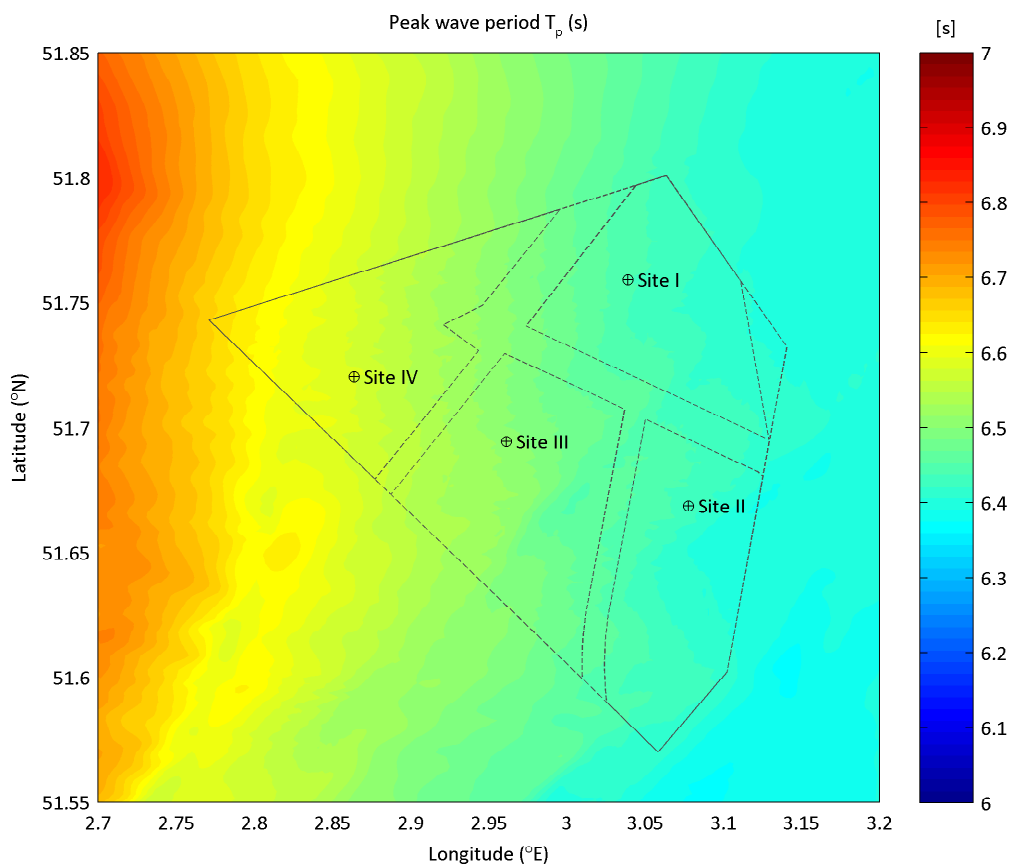
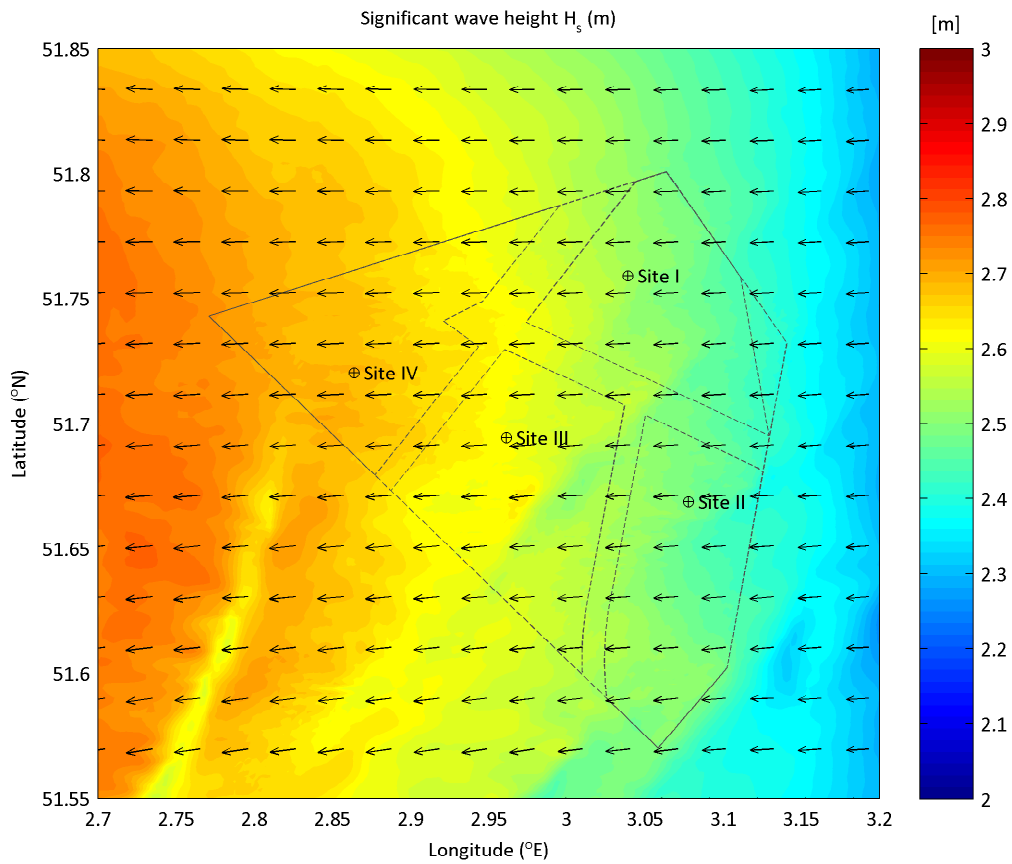
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.019



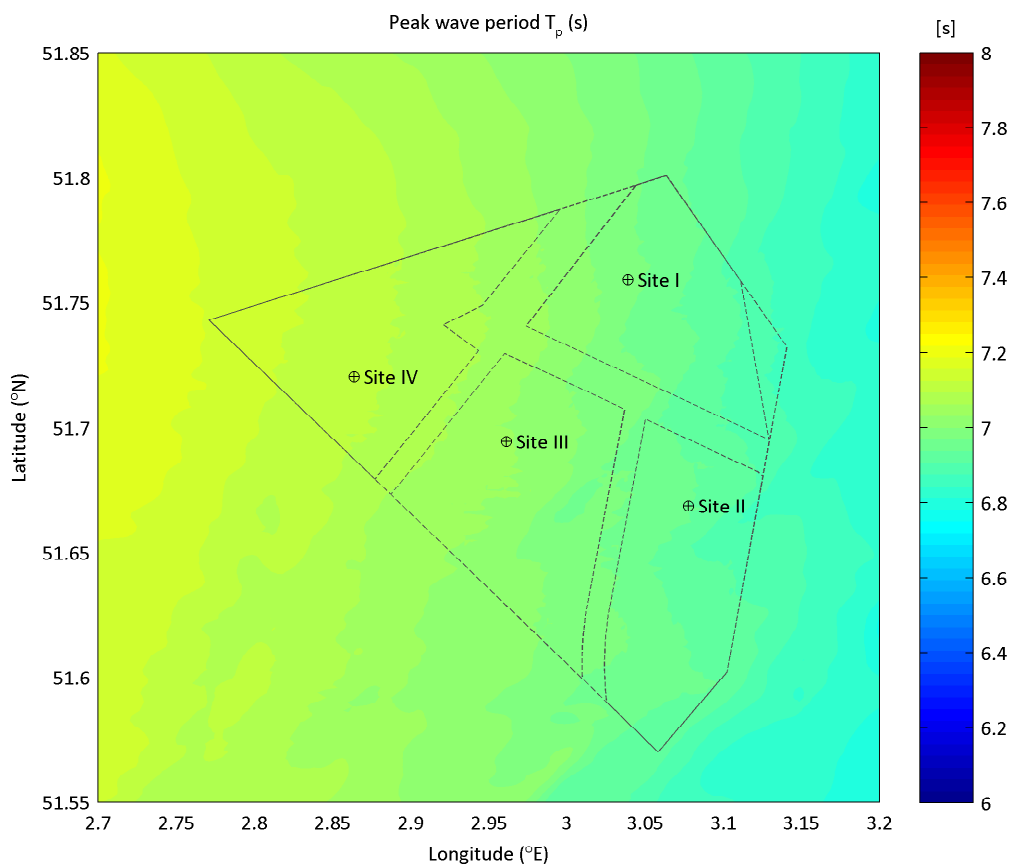
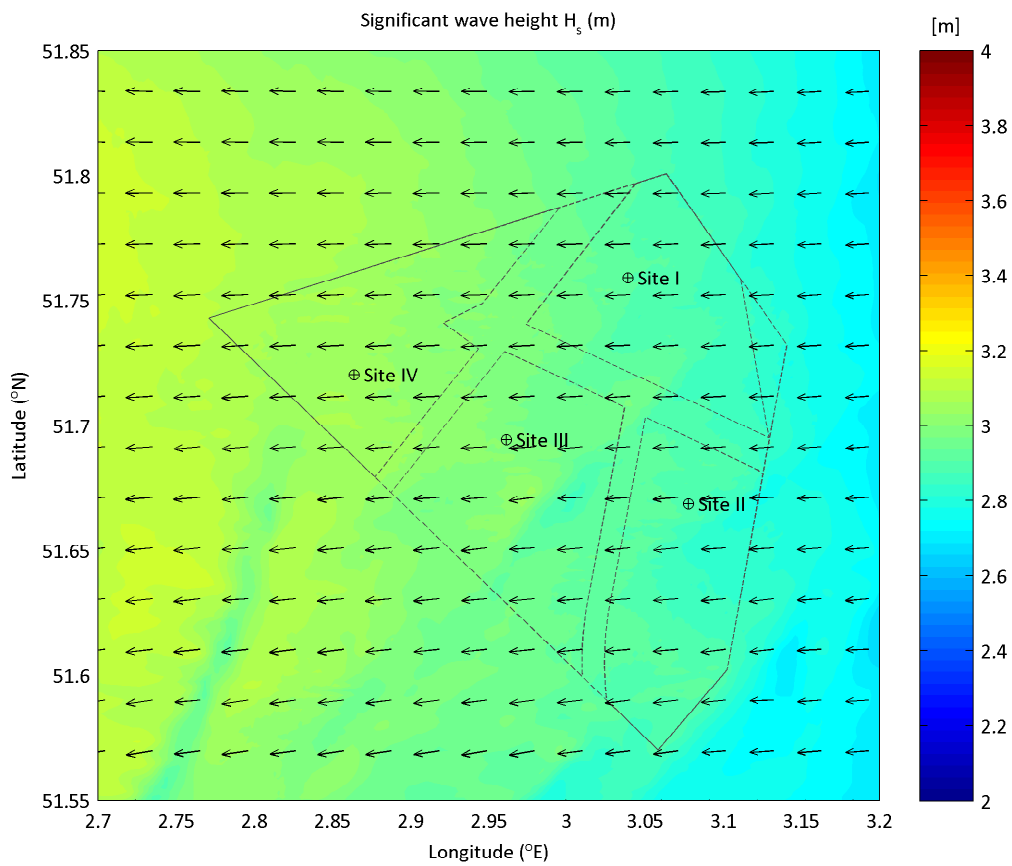
Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.020



Extreme wave condition from Sector75 (°N) - 105 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

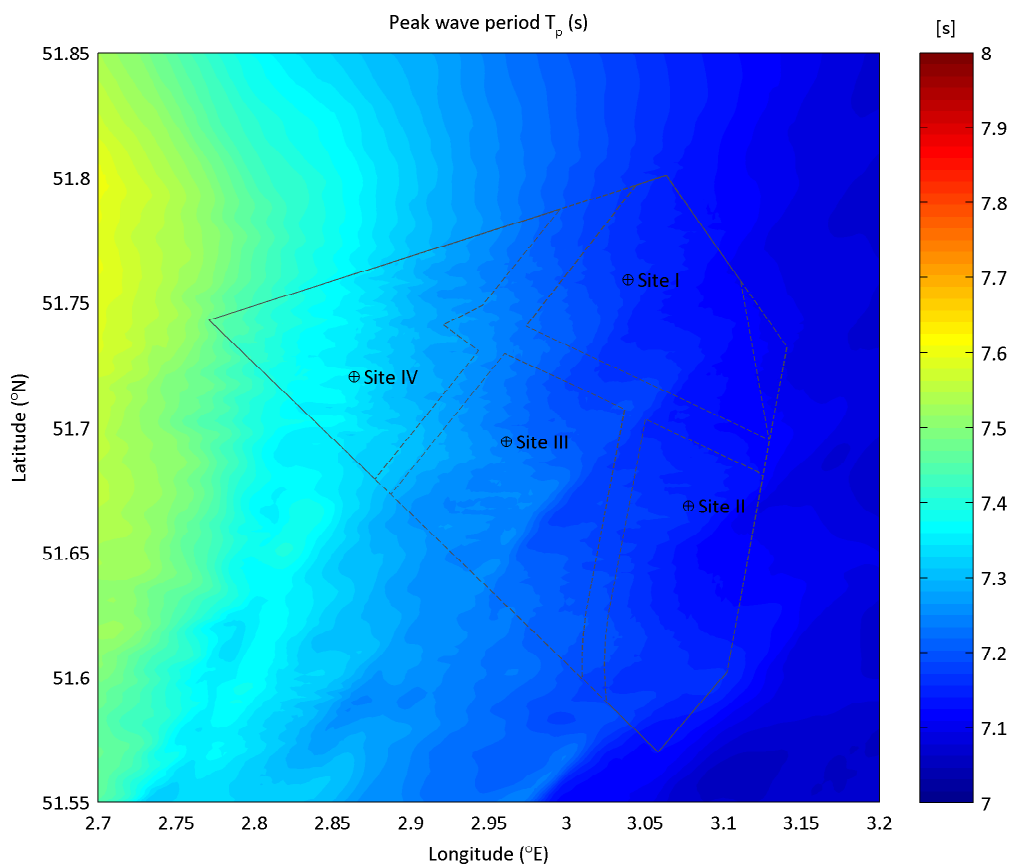
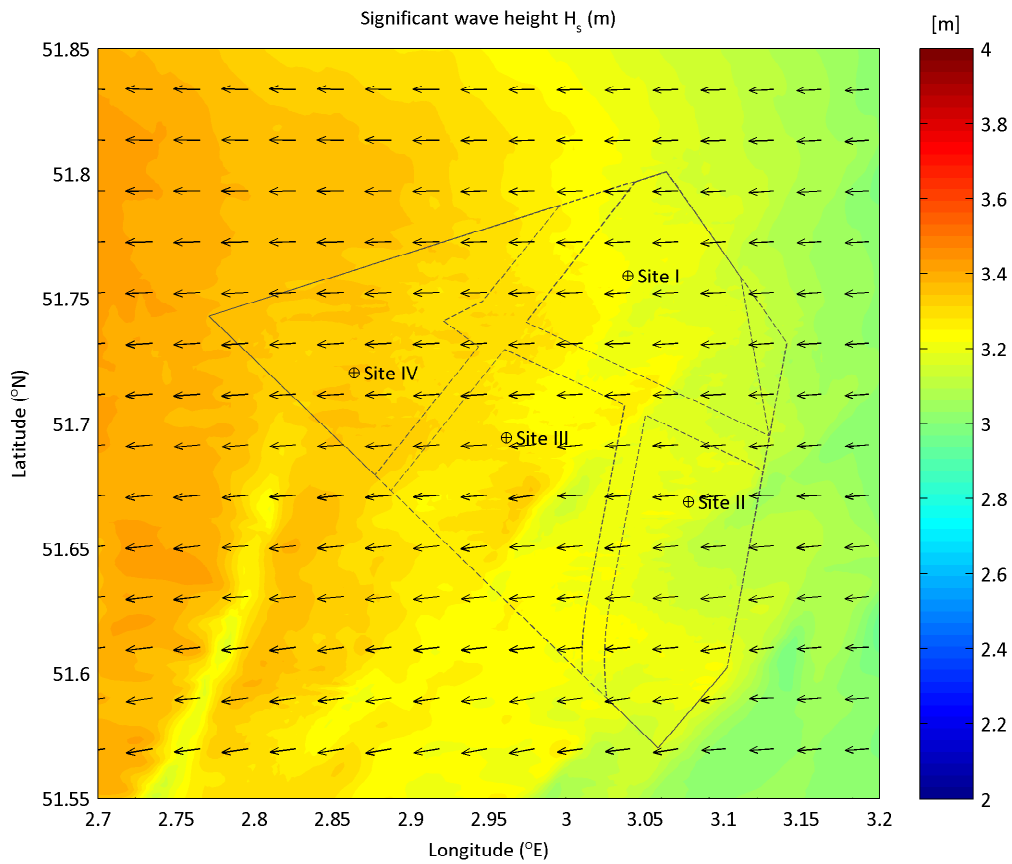
Nautical convention: coming from, clockwise from North

RP: 5yr

maximum still water level

Deltares

App. B.3.021



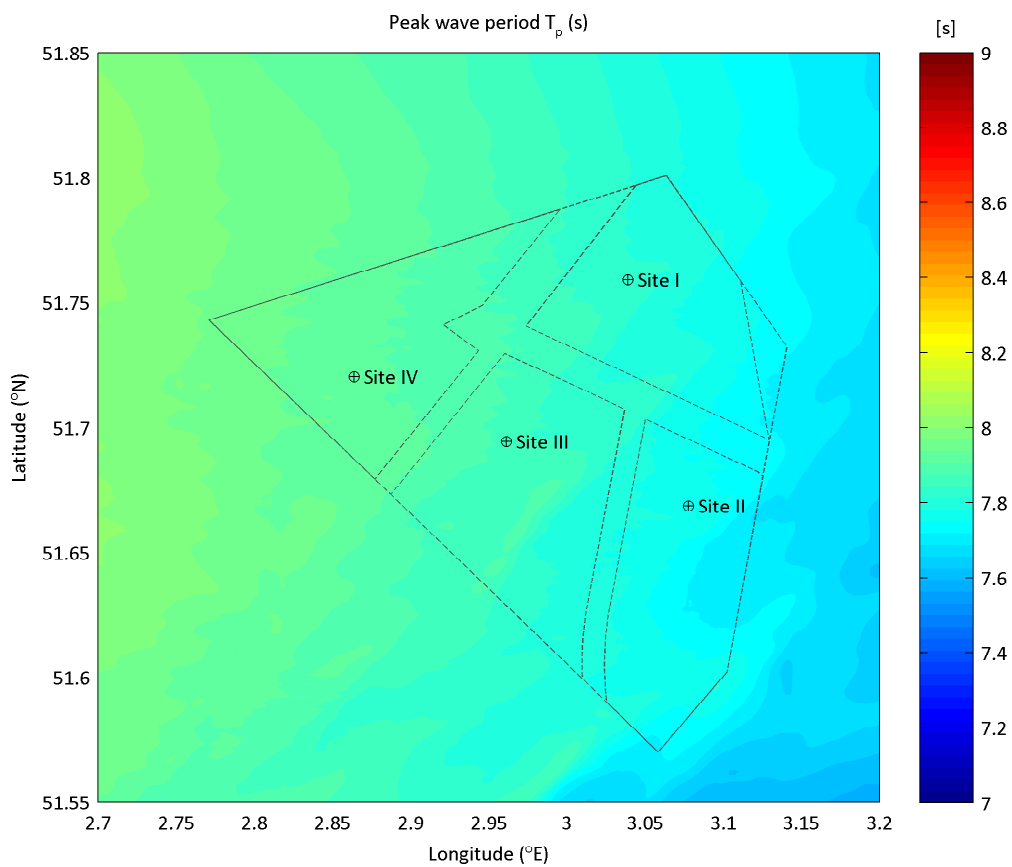
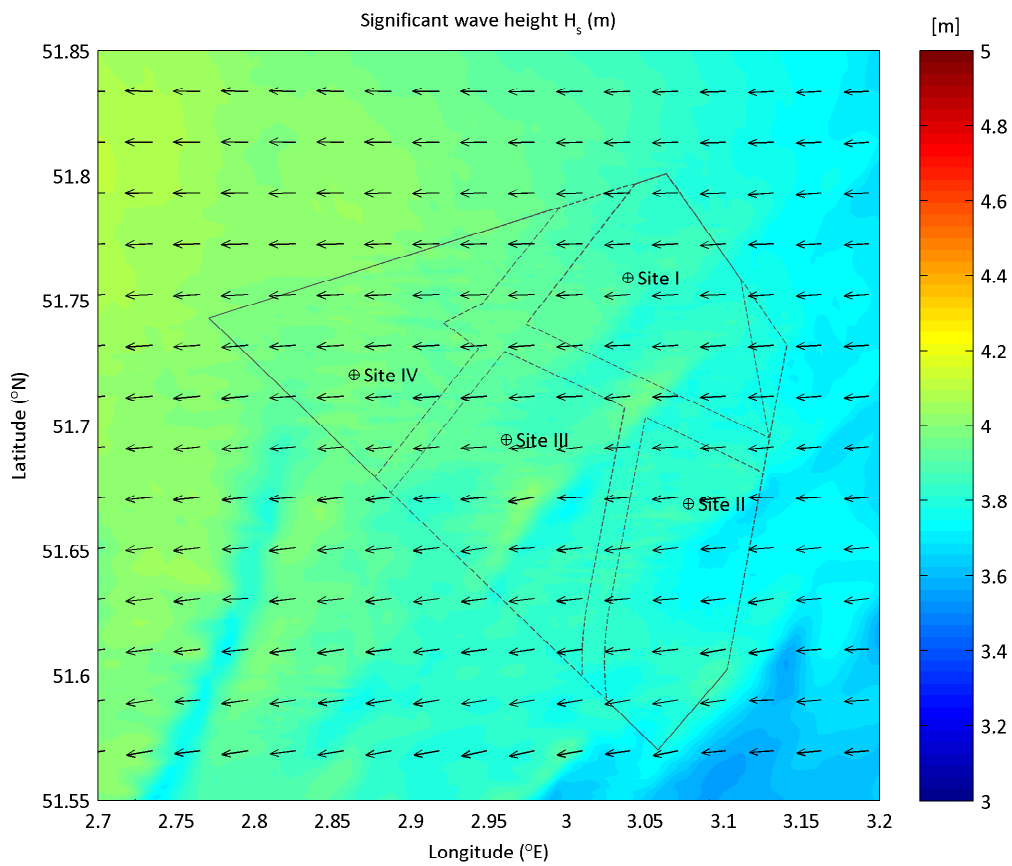
Extreme wave condition from Sector75 (°N) - 105 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.022



Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

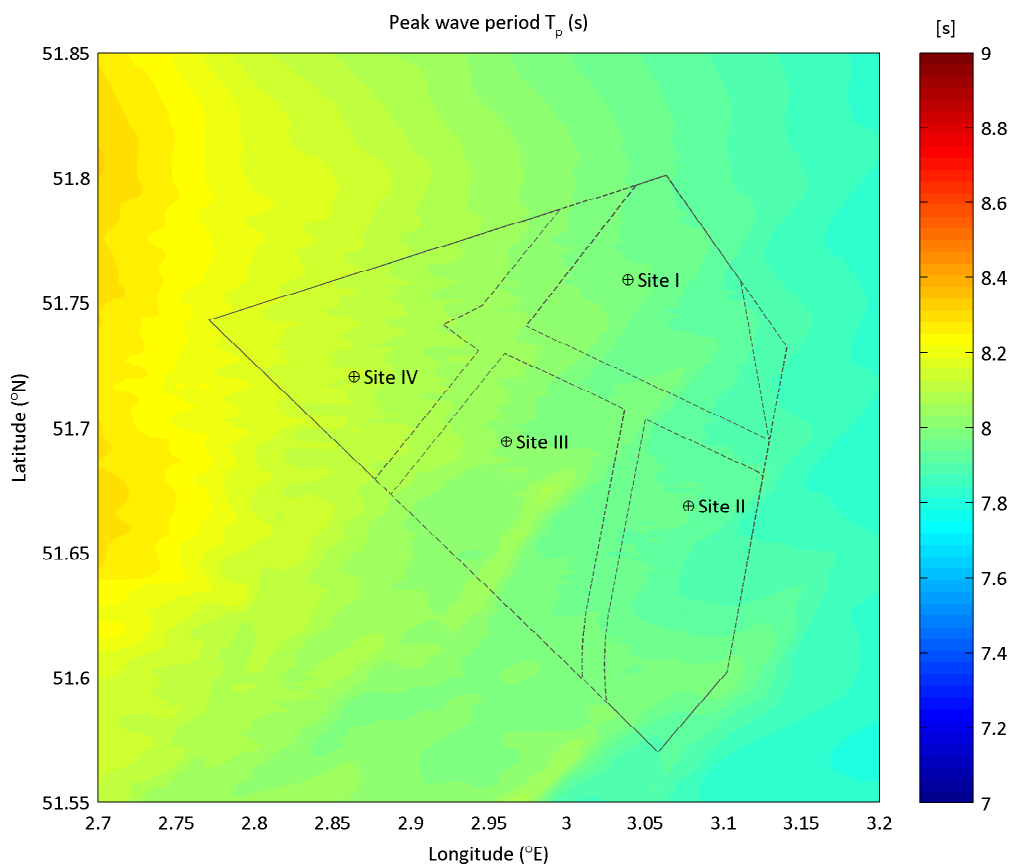
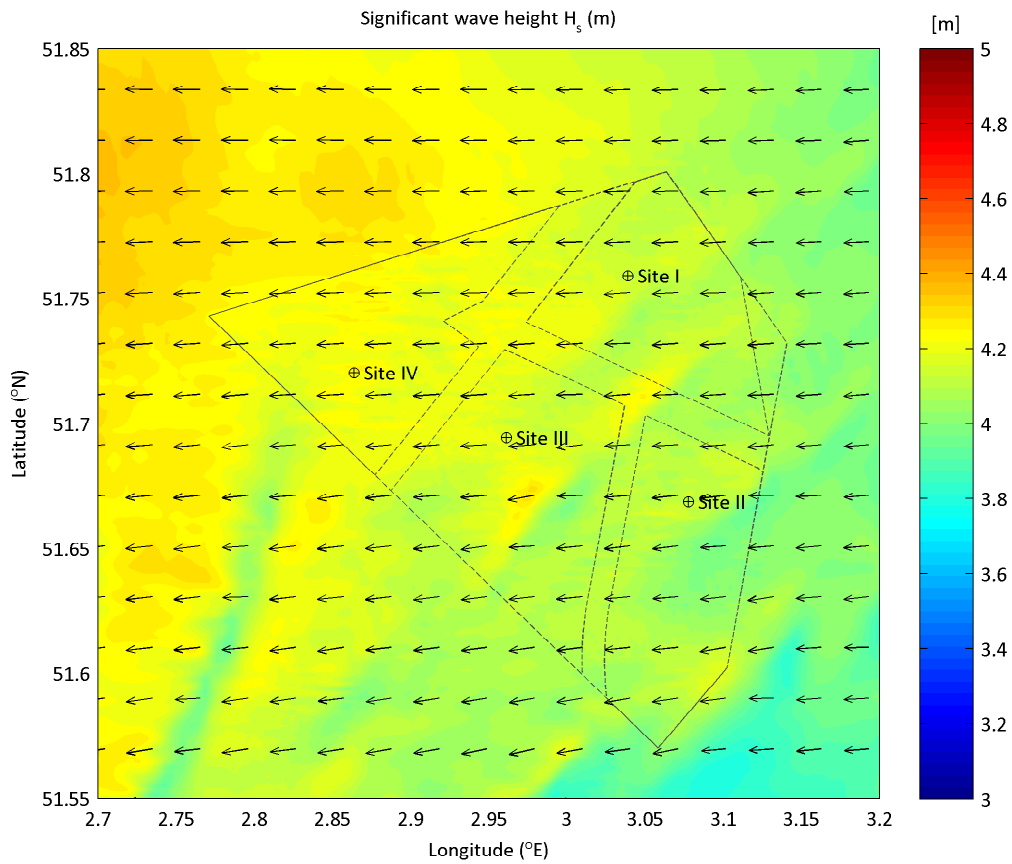
Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.023



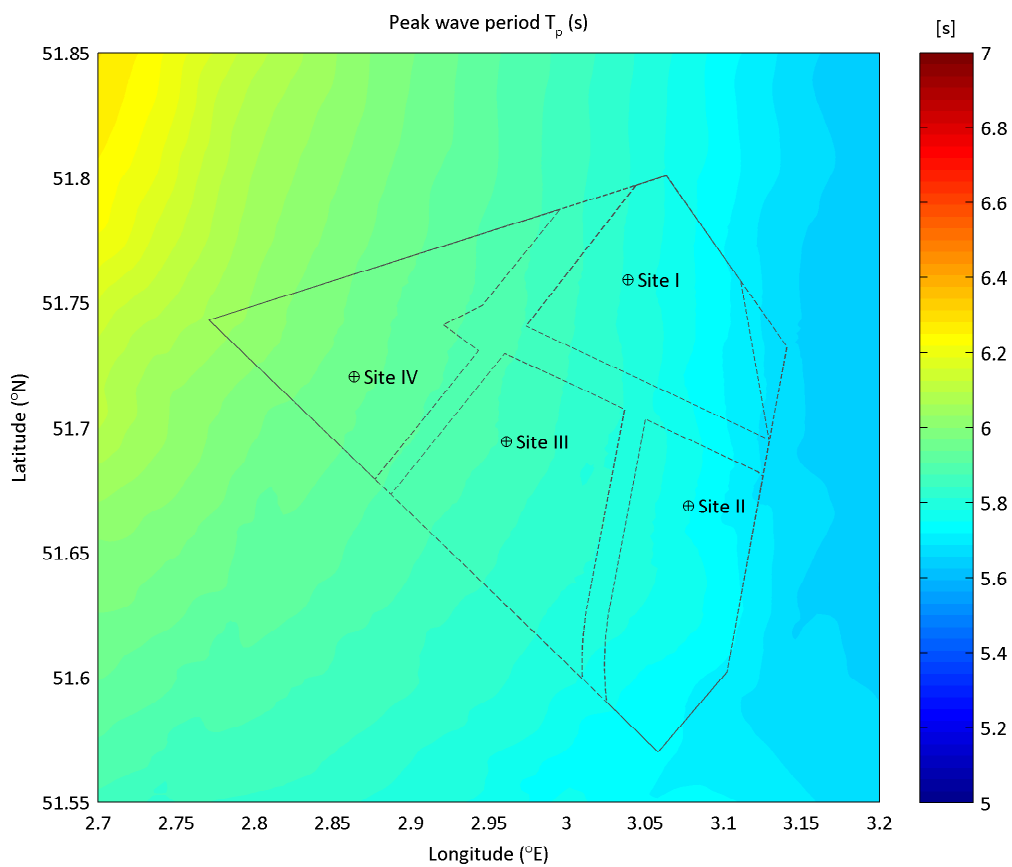
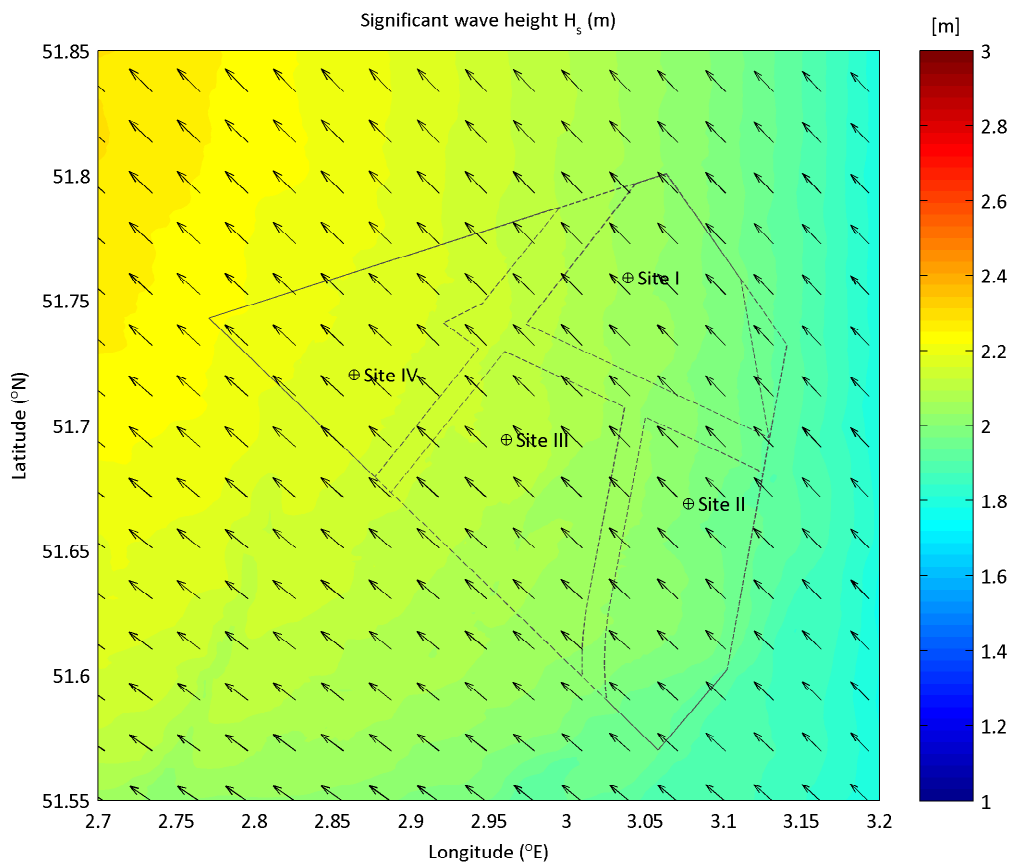
Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

maximum still water level

App. B.3.024



Extreme wave condition from Sector105 ($^{\circ}$ N) - 135 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

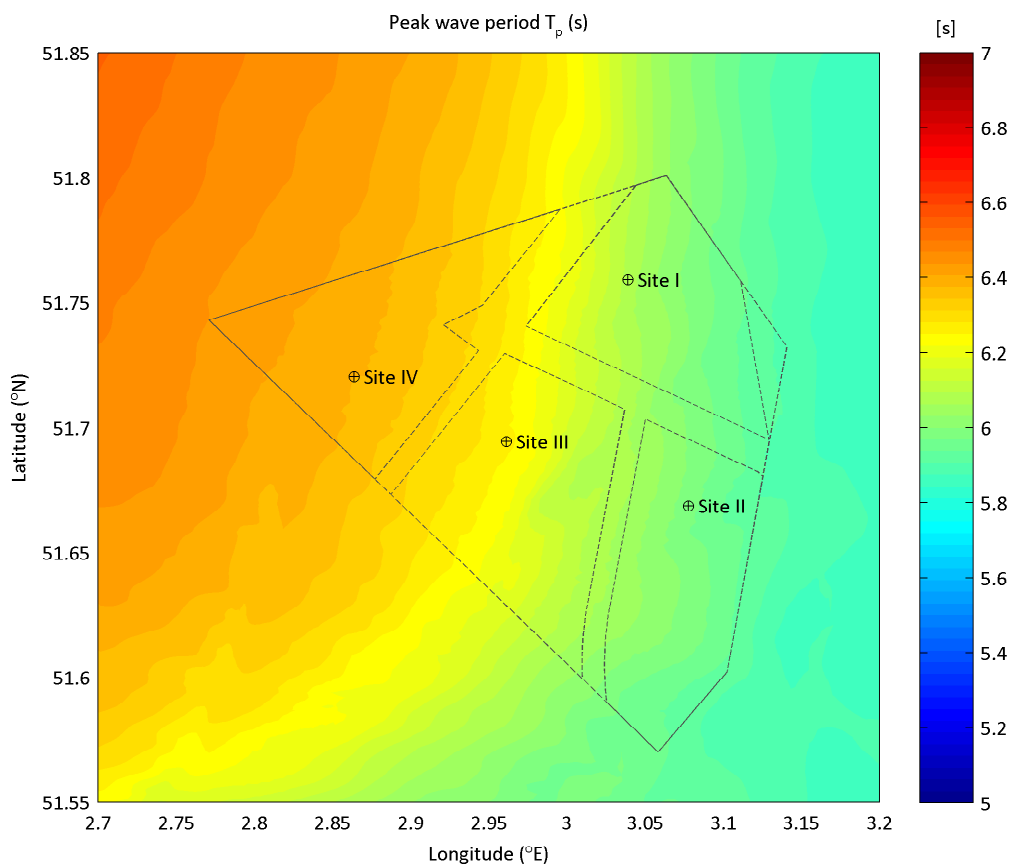
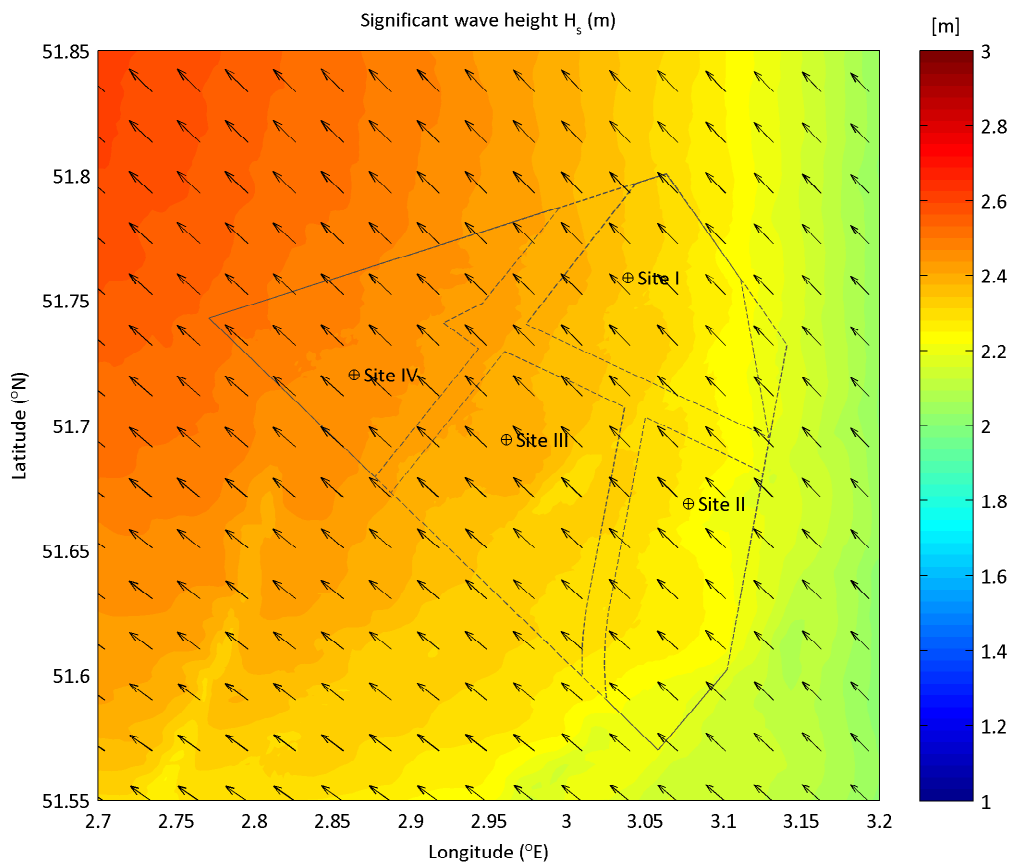
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.025



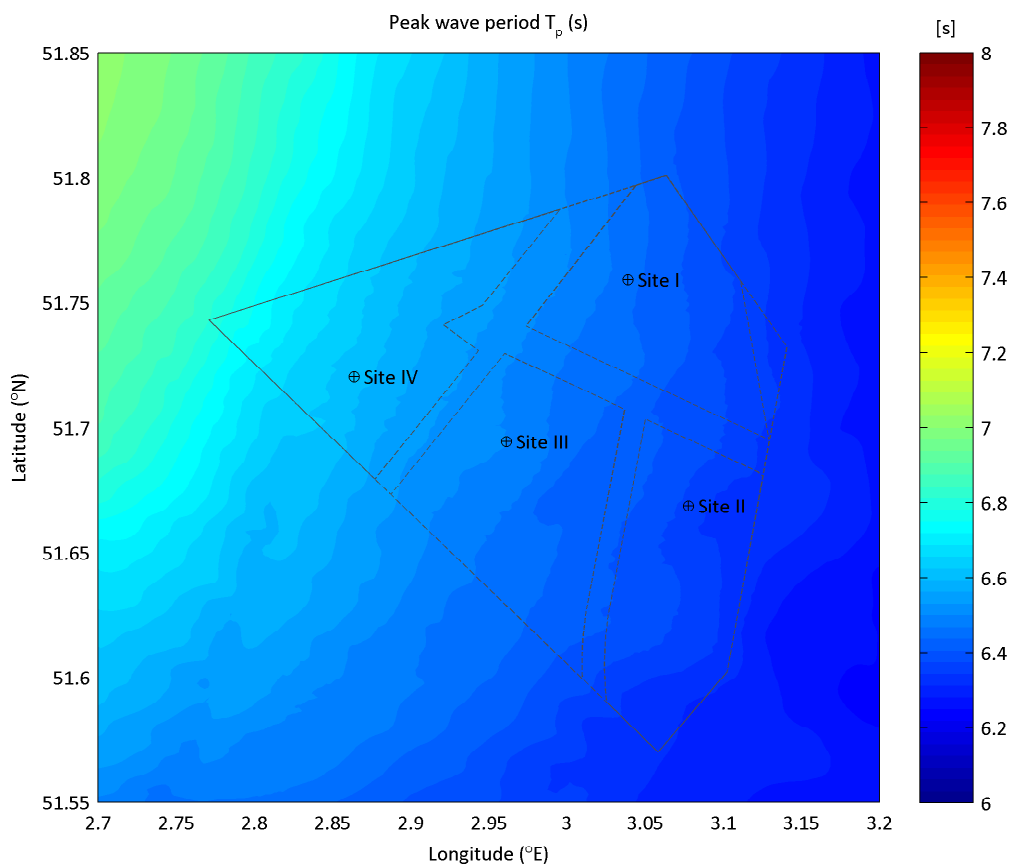
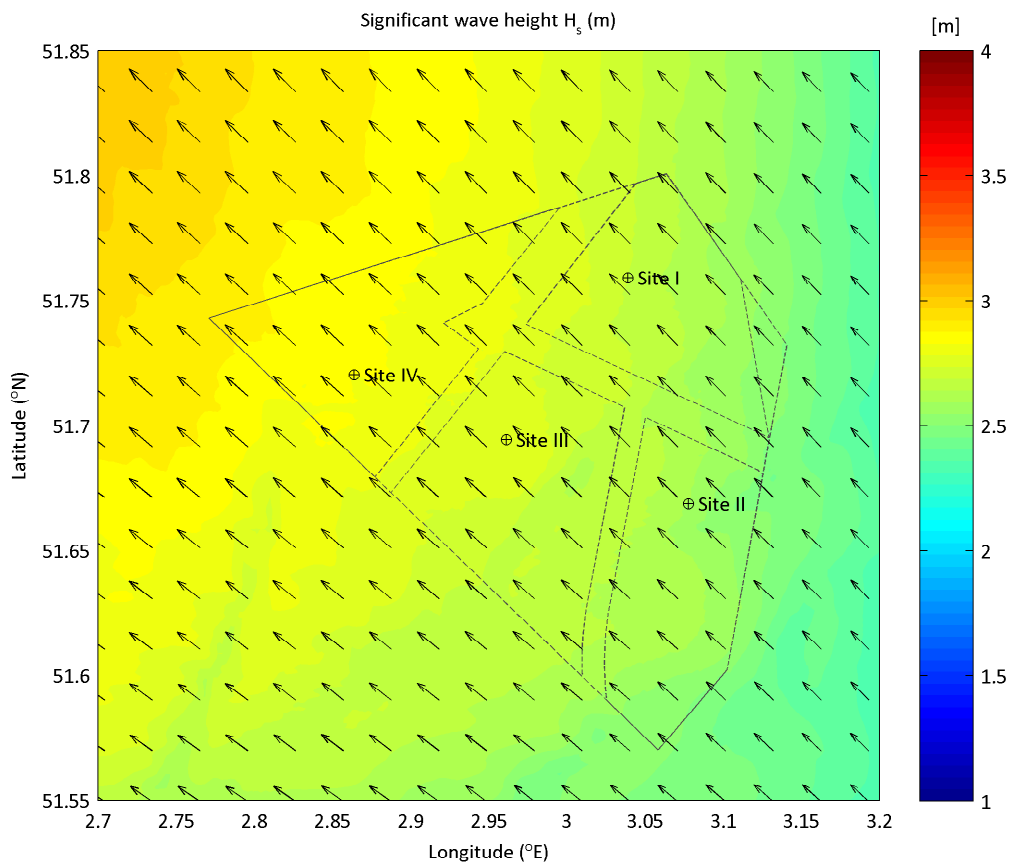
Extreme wave condition from Sector105 ($^{\circ}$ N) - 135 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

maximum still water level

App. B.3.026



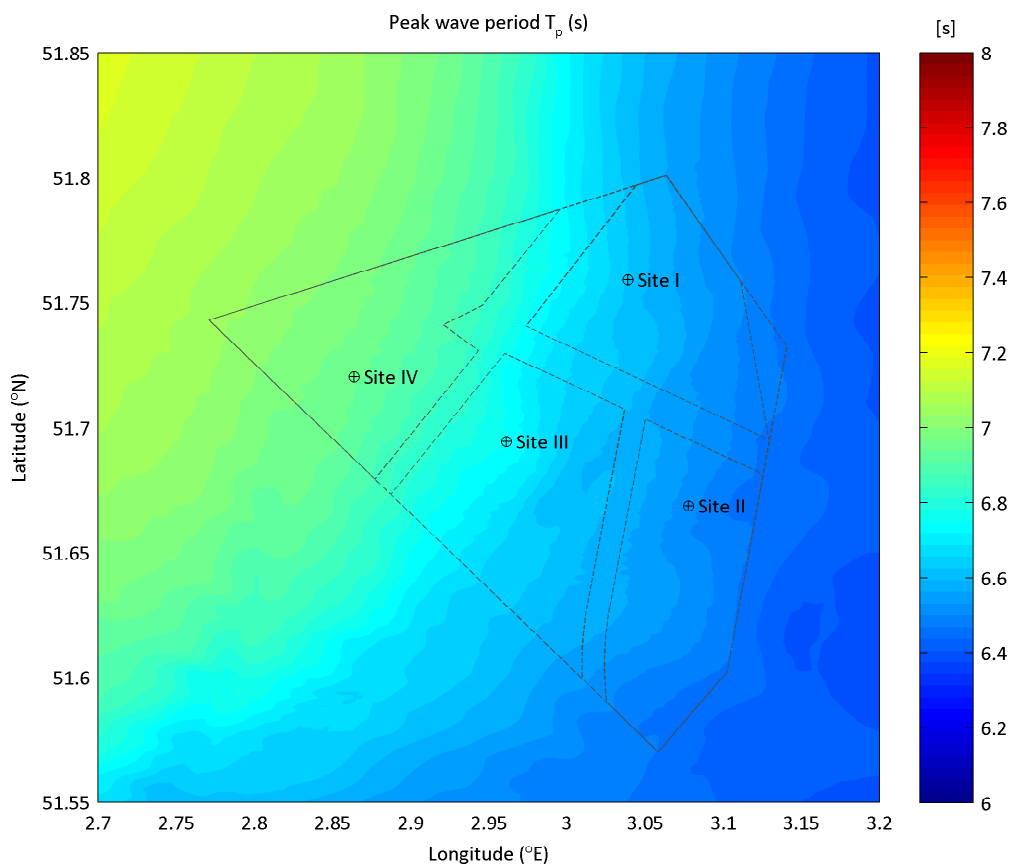
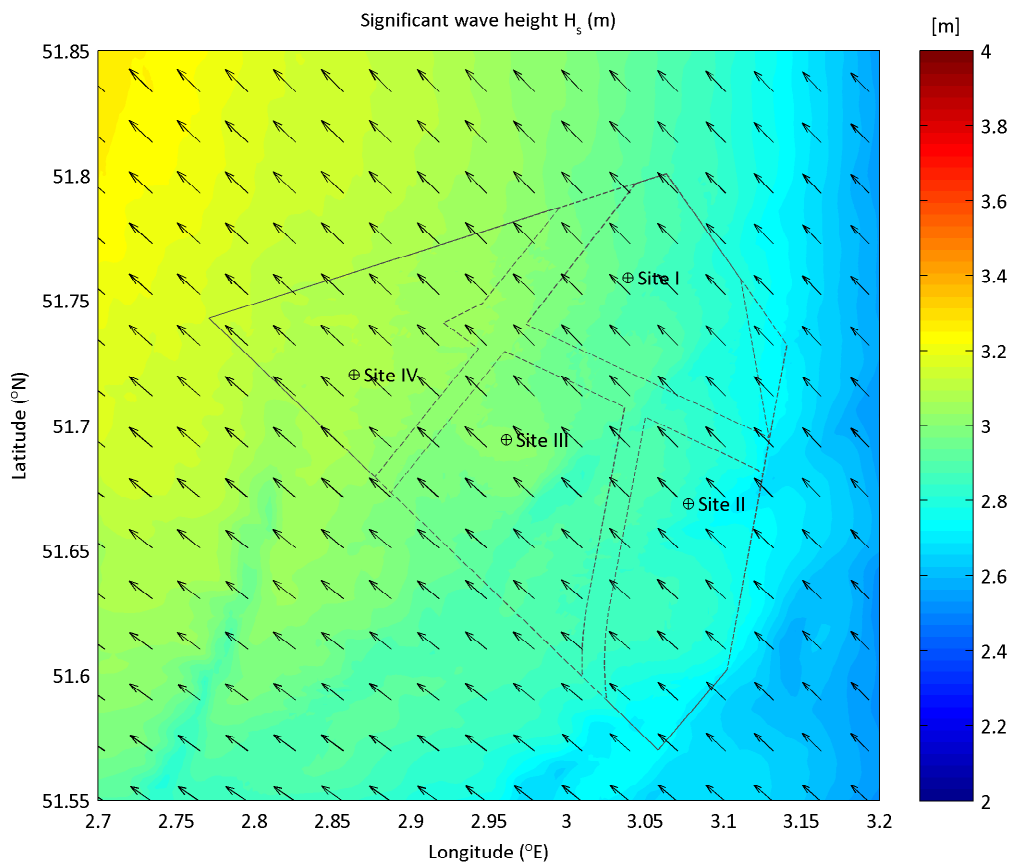
Extreme wave condition from Sector105 ($^{\circ}$ N) - 135 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.027



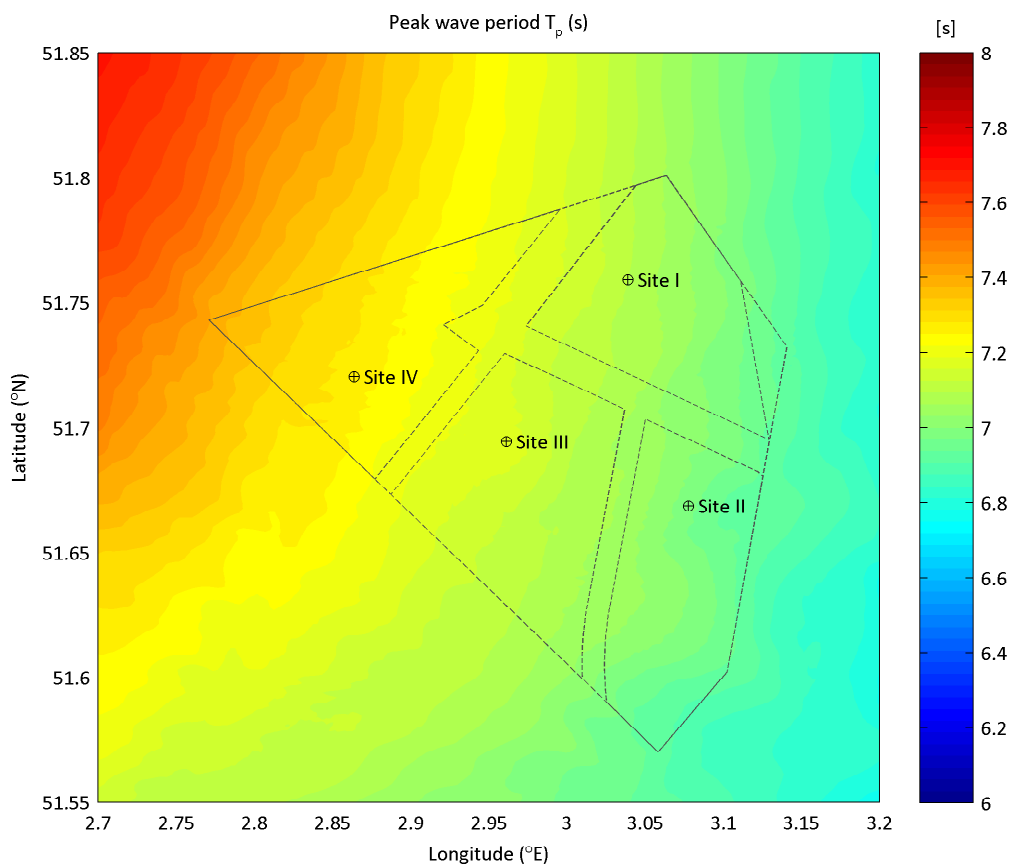
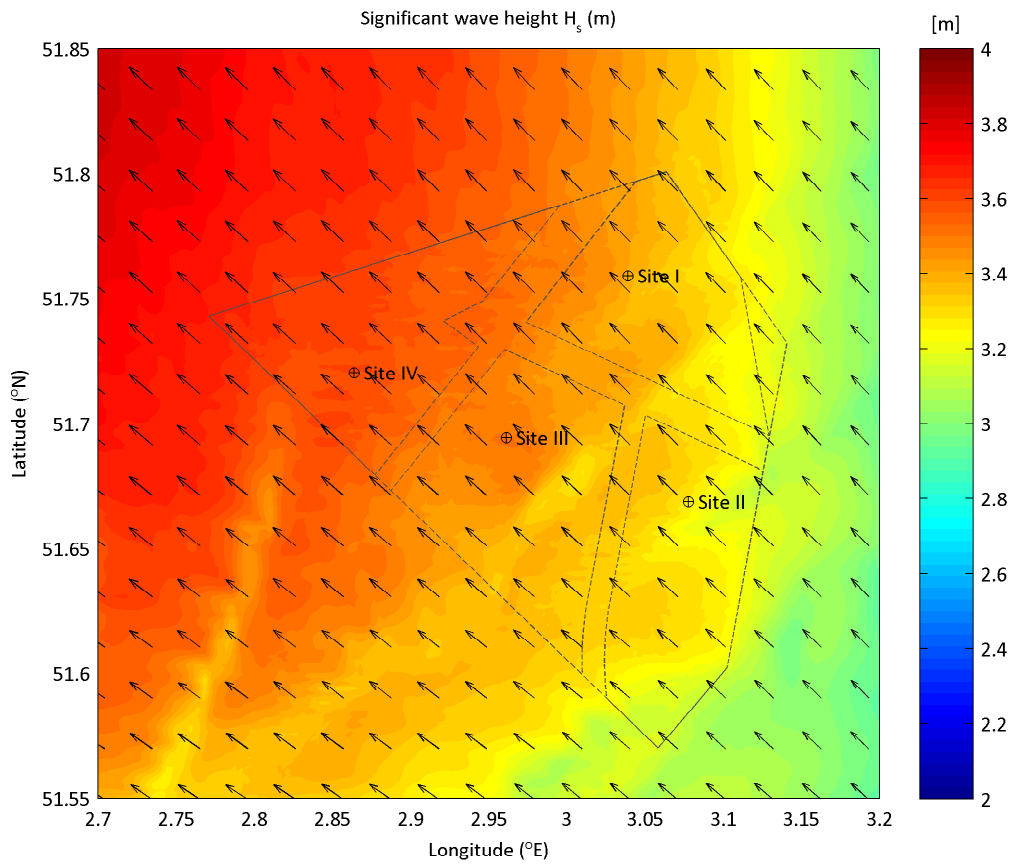
Extreme wave condition from Sector105 (°N) - 135 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.028



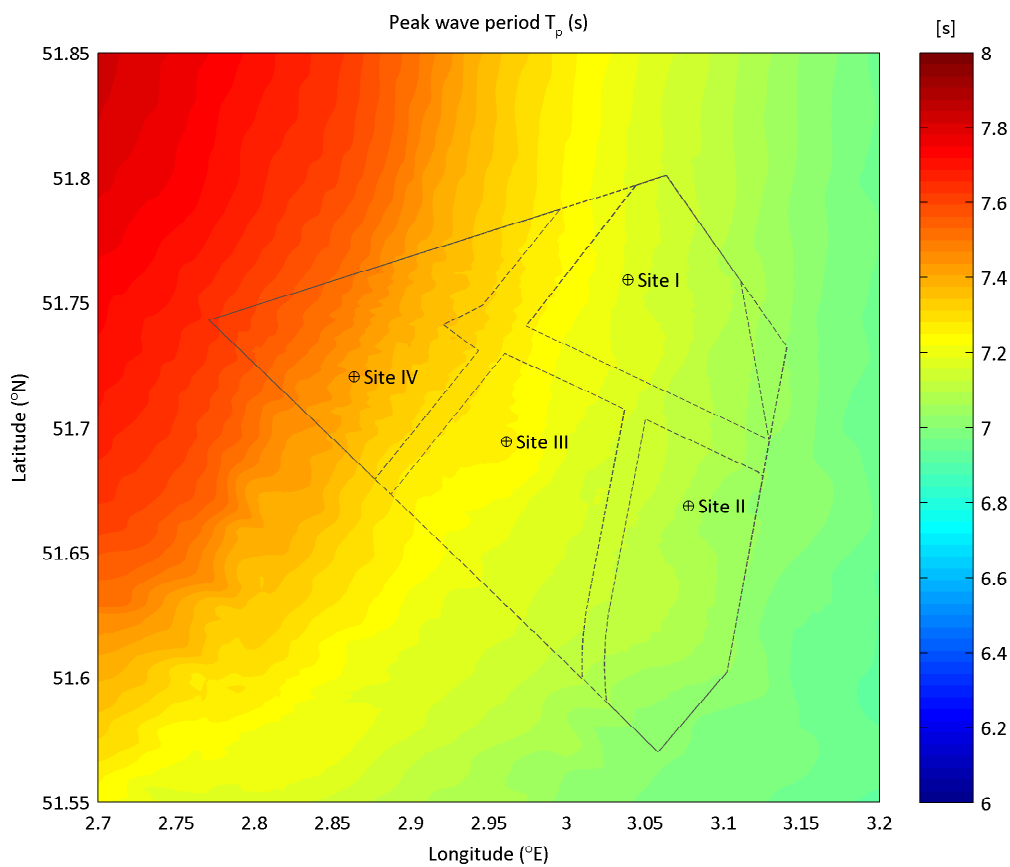
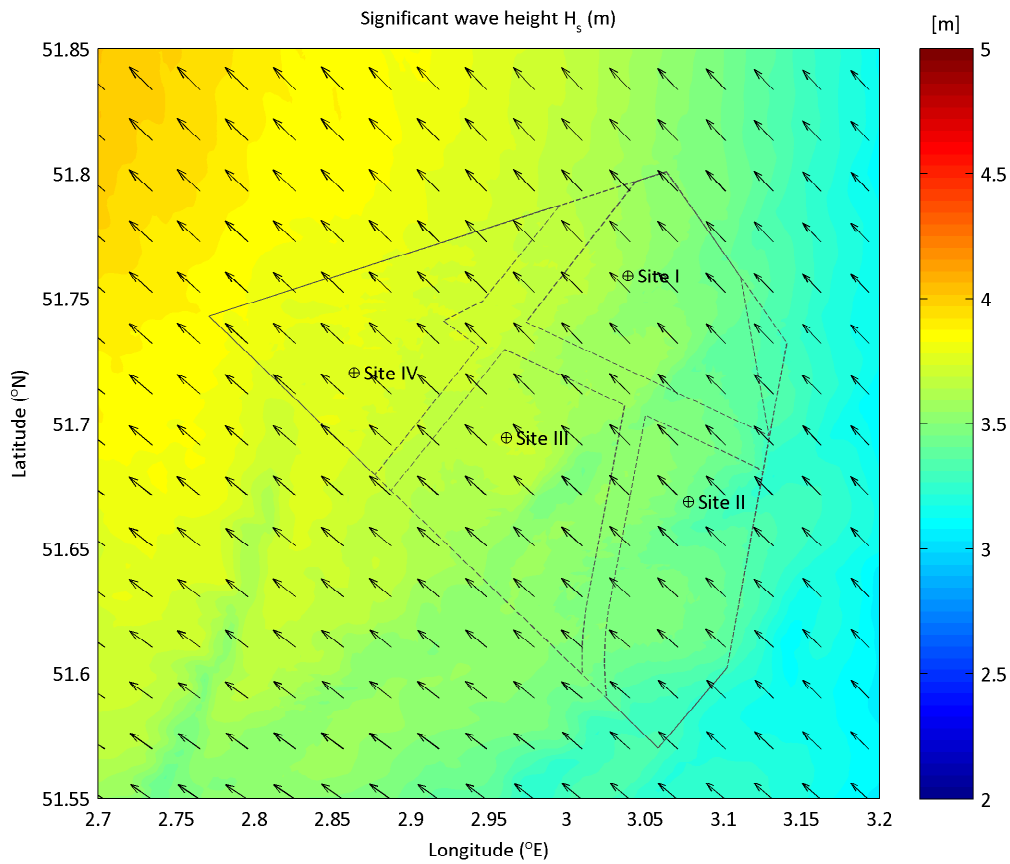
Extreme wave condition from Sector105 ($^{\circ}$ N) - 135 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

maximum still water level

App. B.3.029



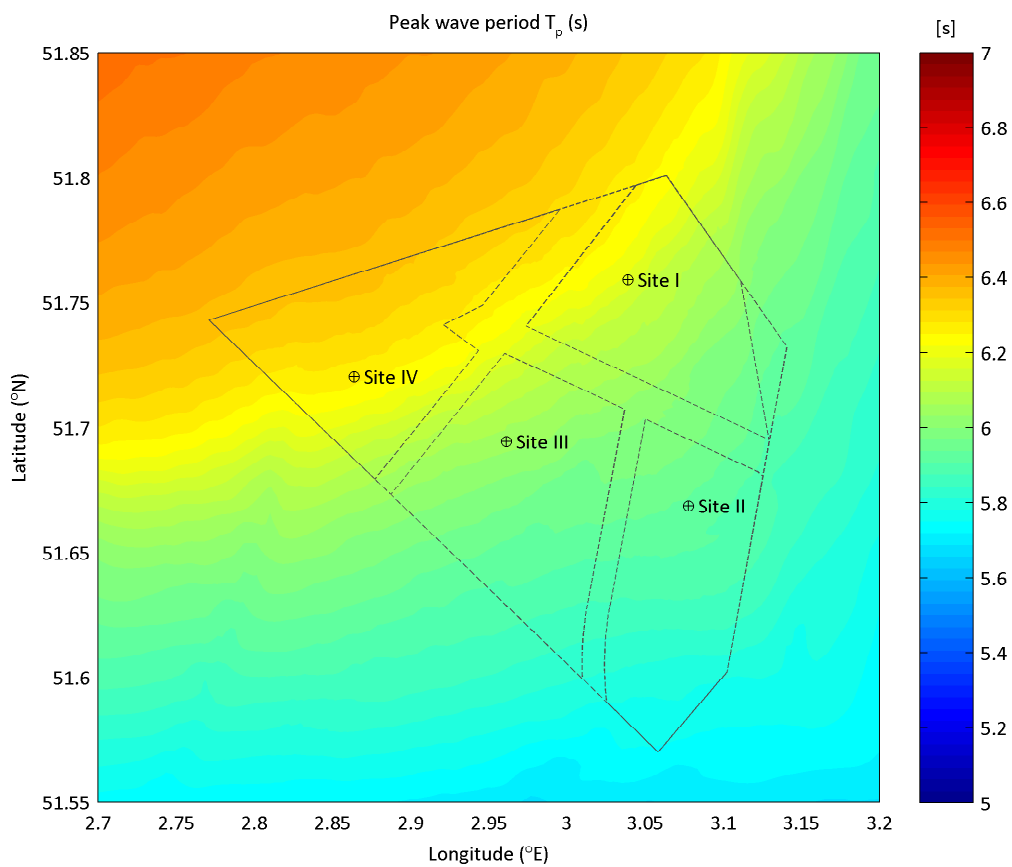
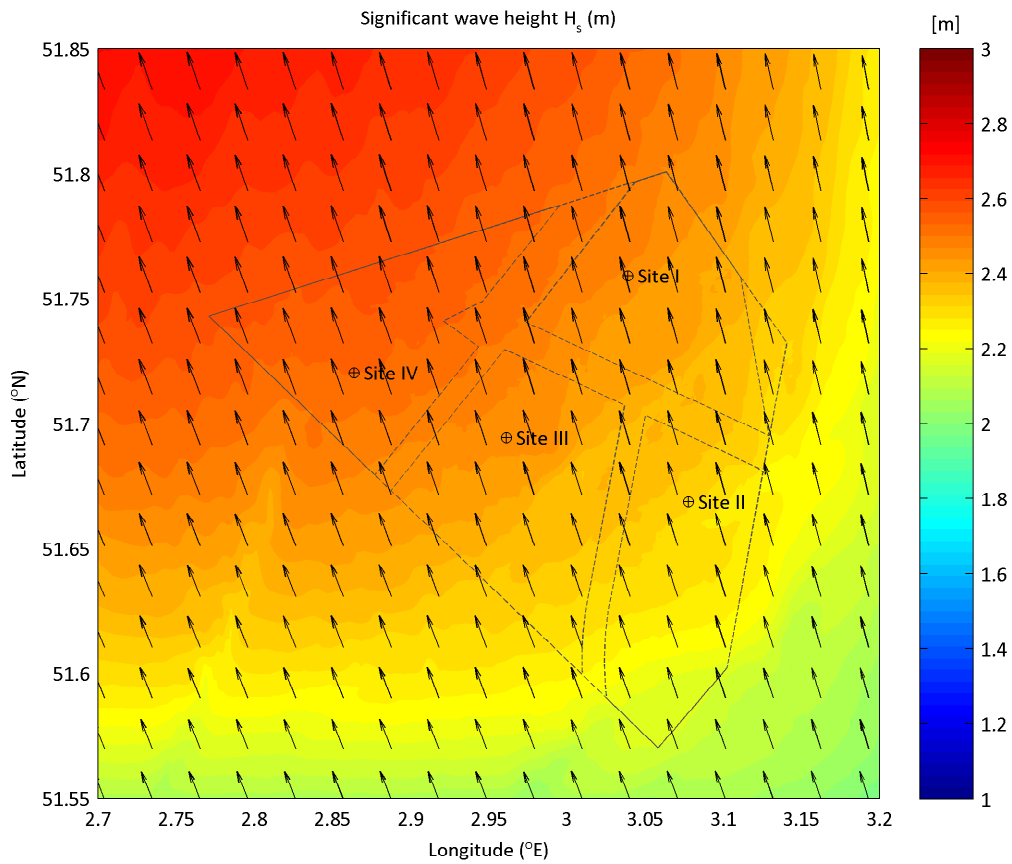
Extreme wave condition from Sector105 (°N) - 135 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

maximum still water level

App. B.3.030



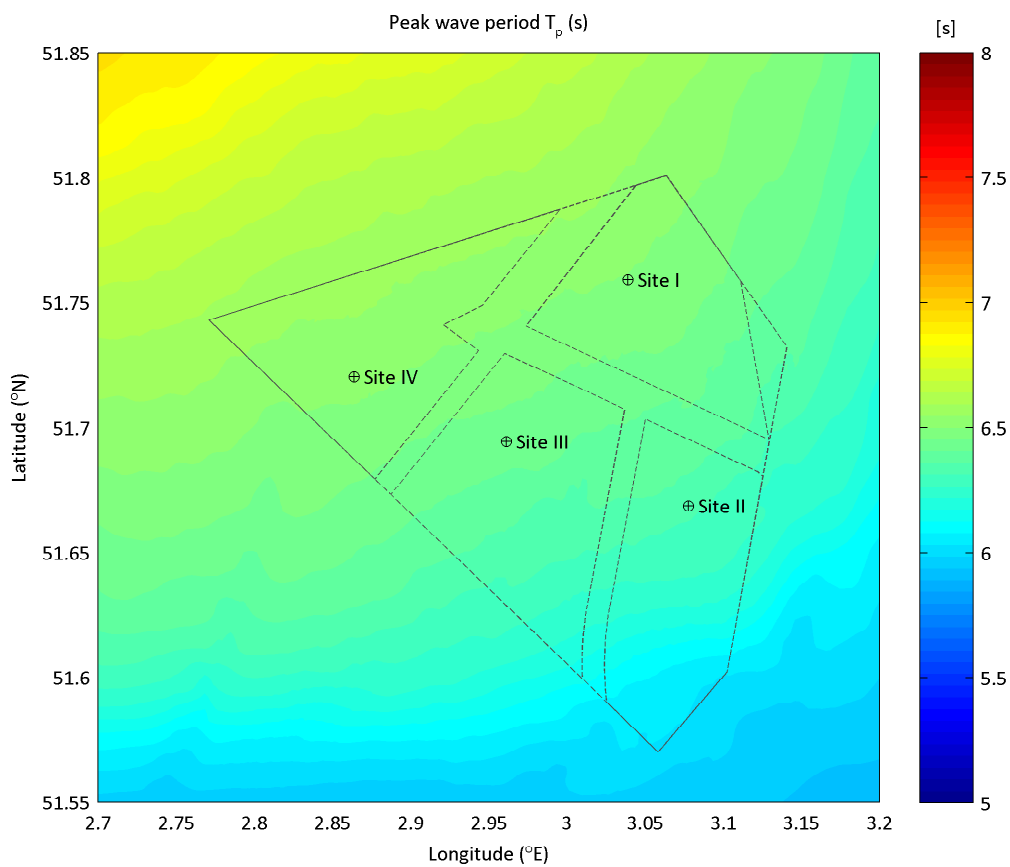
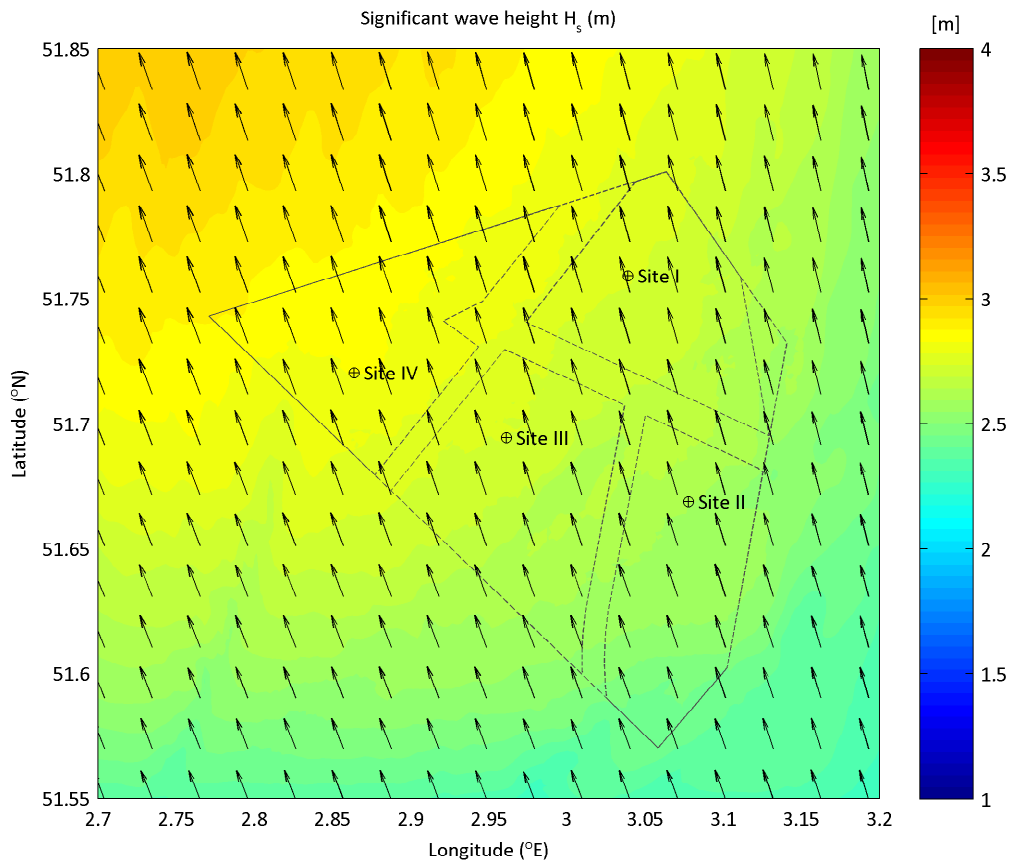
Extreme wave condition from Sector135 (°N) - 165 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 1yr

maximum still water level

App. B.3.031



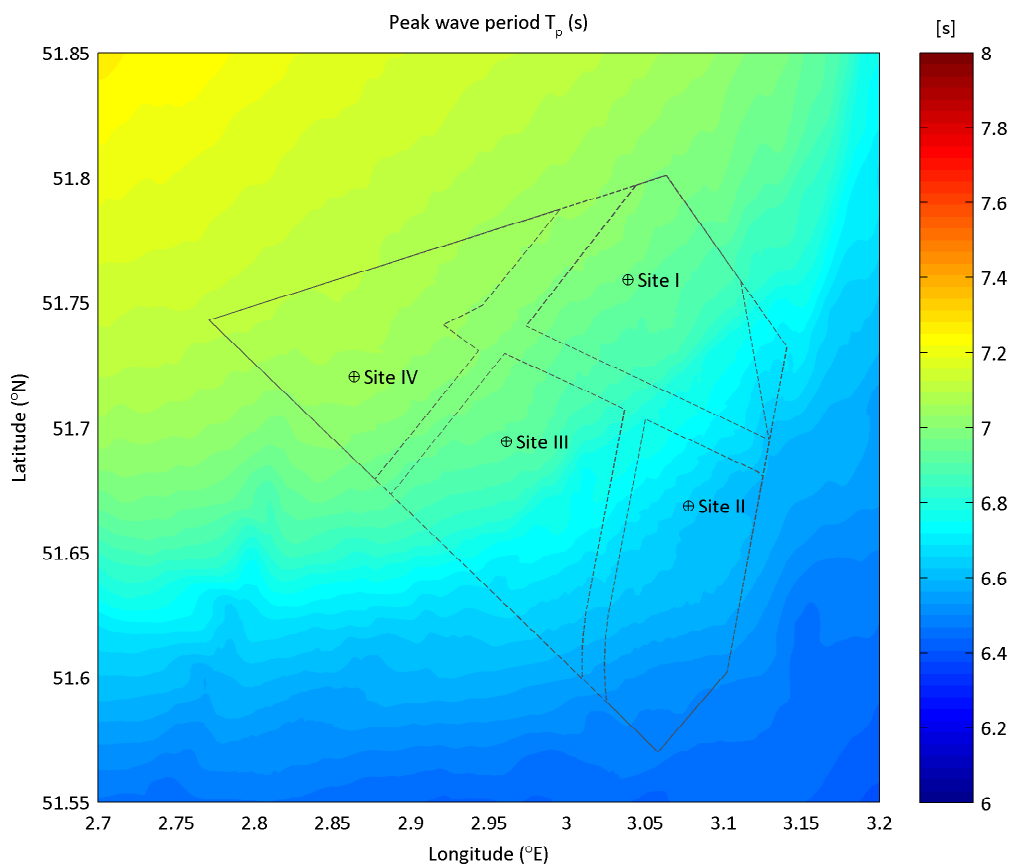
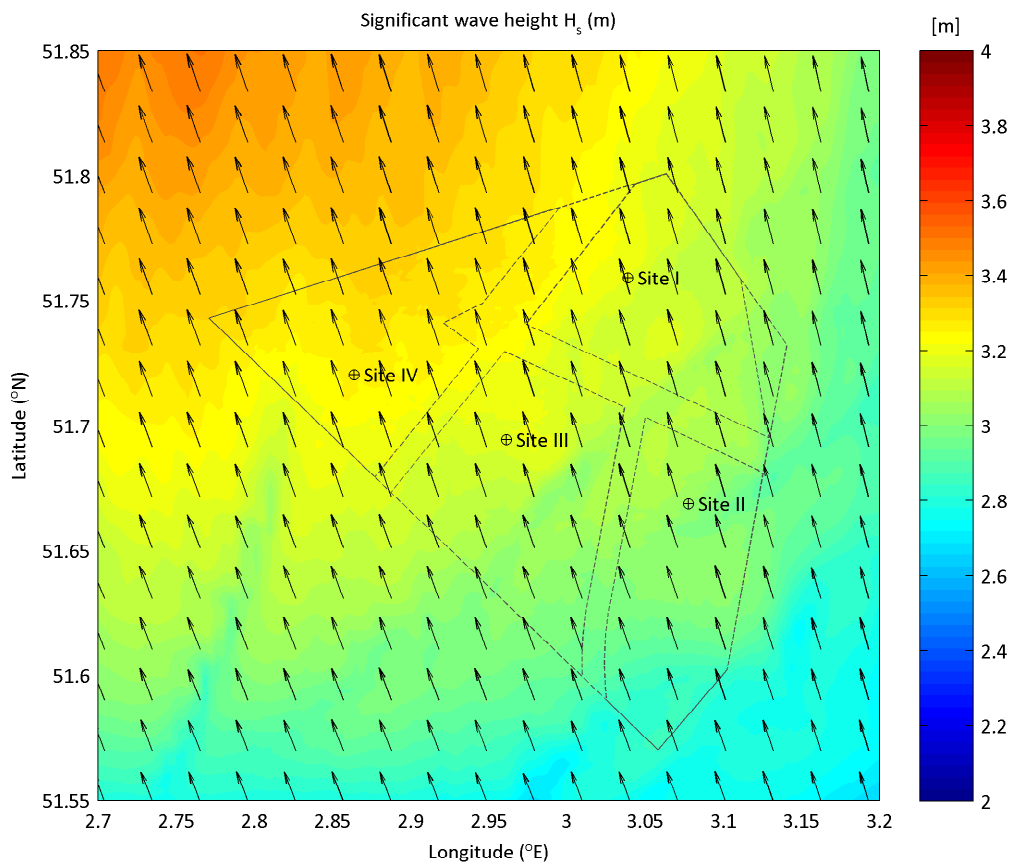
Extreme wave condition from Sector135 ($^{\circ}$ N) - 165 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

maximum still water level

App. B.3.032



Extreme wave condition from Sector135 (°N) - 165 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

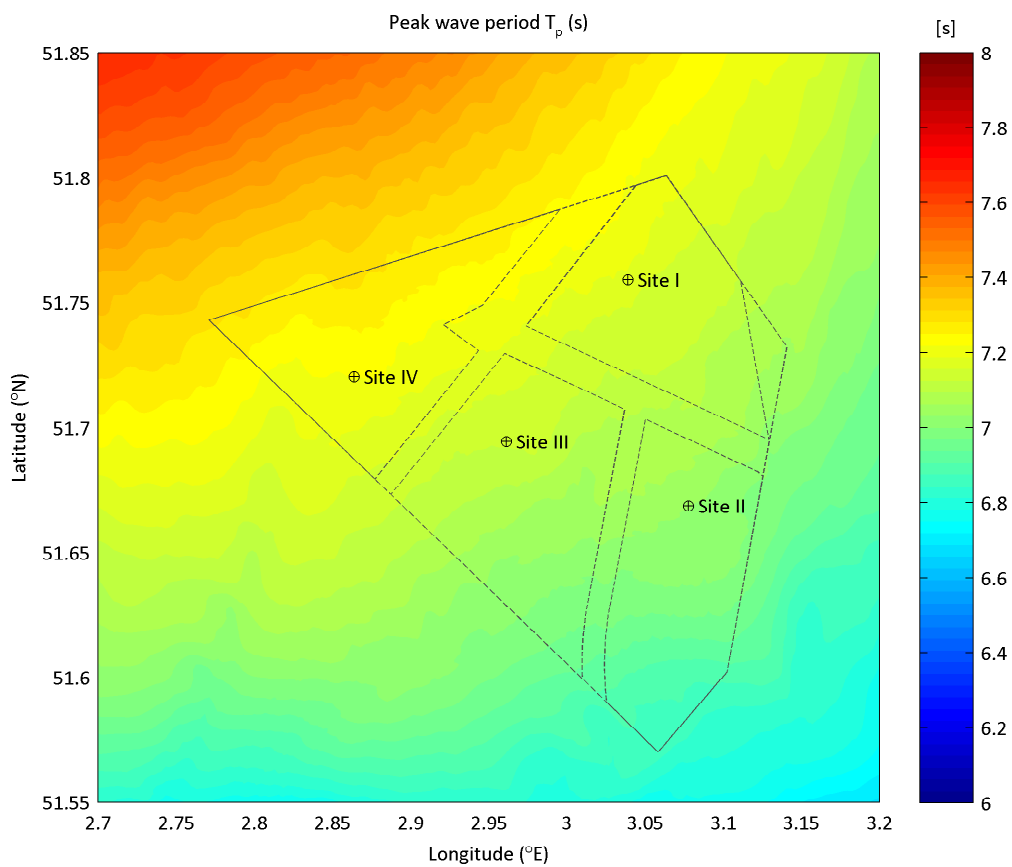
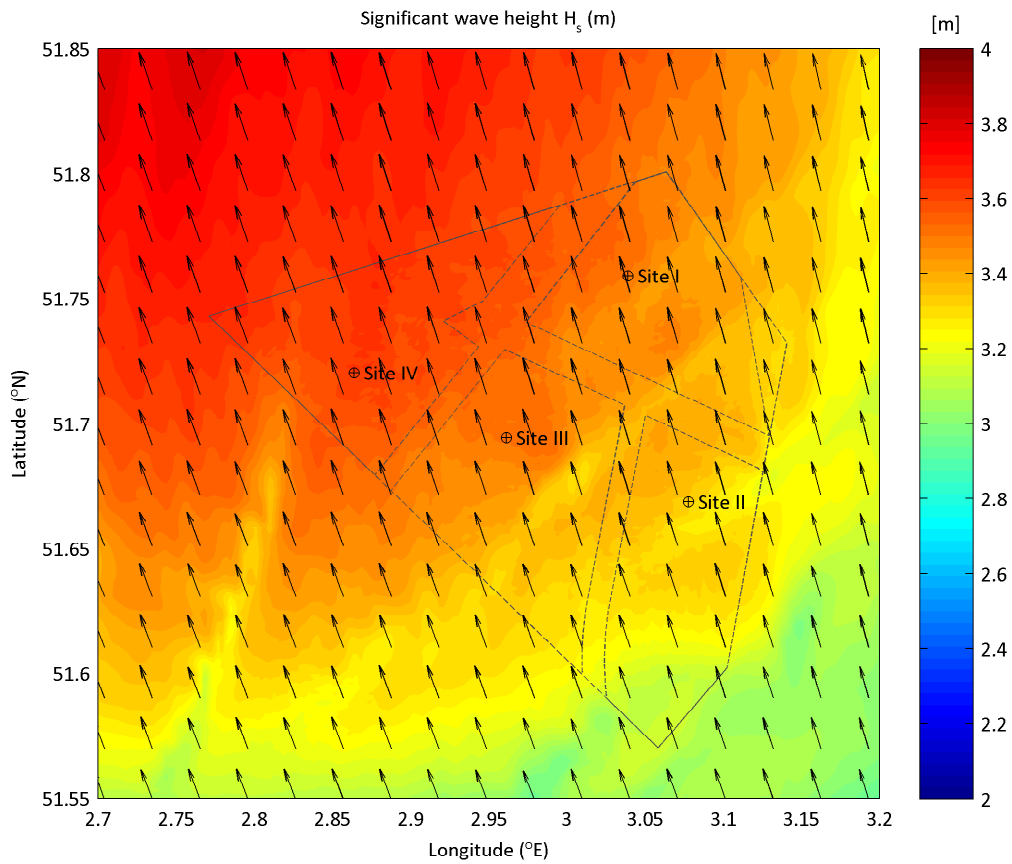
Nautical convention: coming from, clockwise from North

RP: 5yr

maximum still water level

Deltares

App. B.3.033



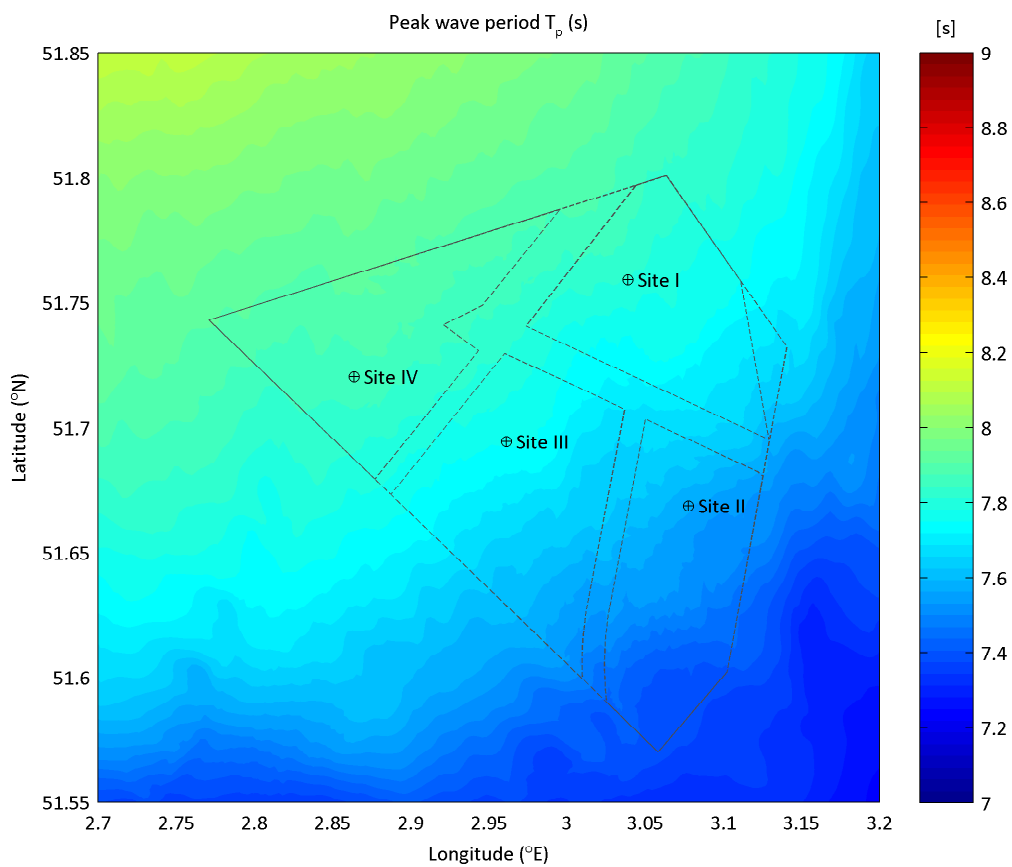
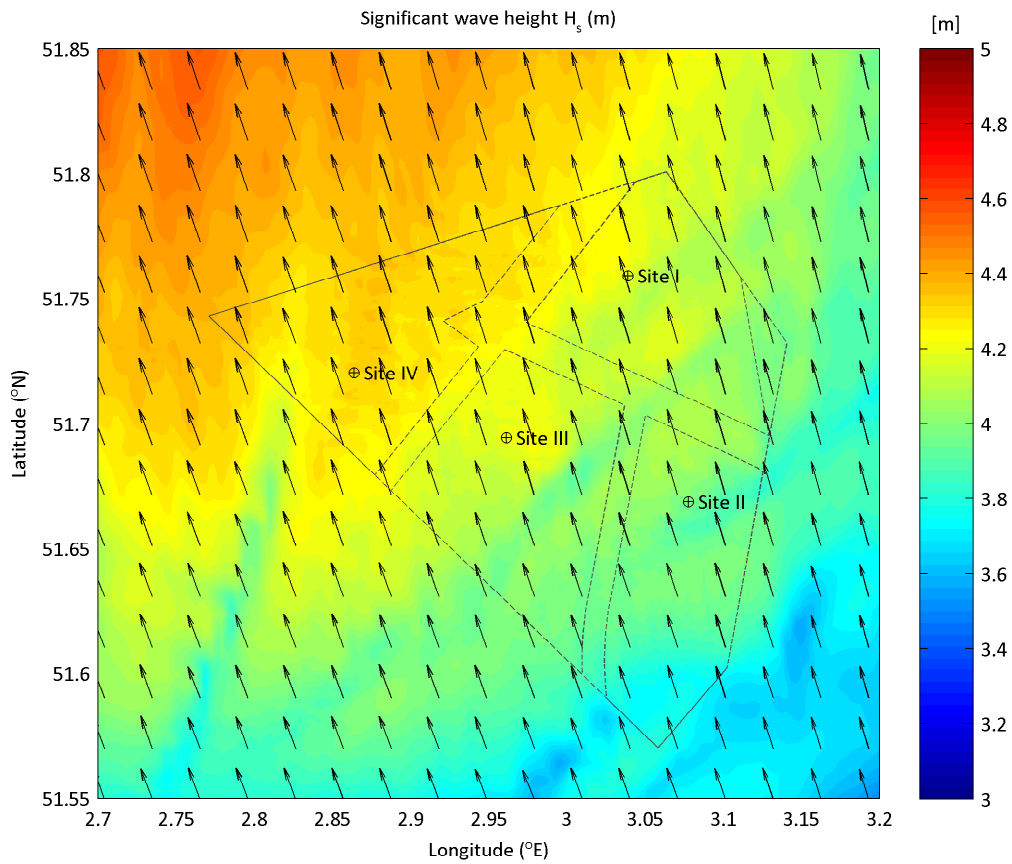
Extreme wave condition from Sector135 (°N) - 165 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.034



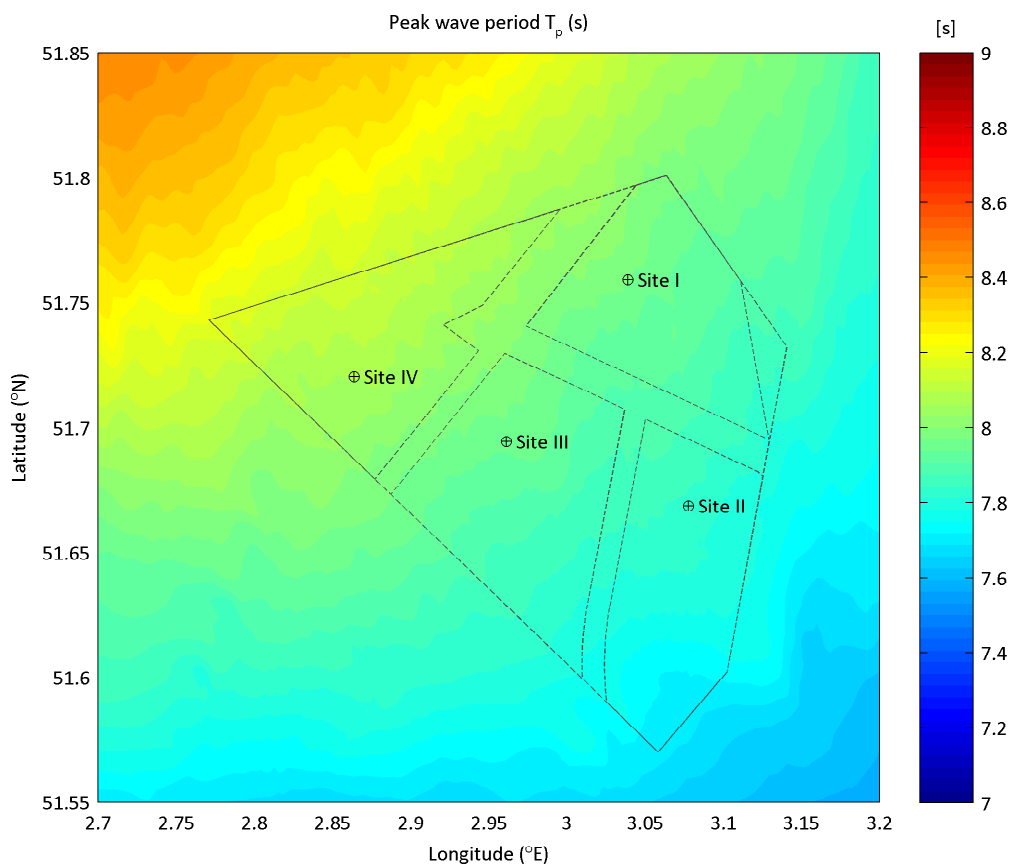
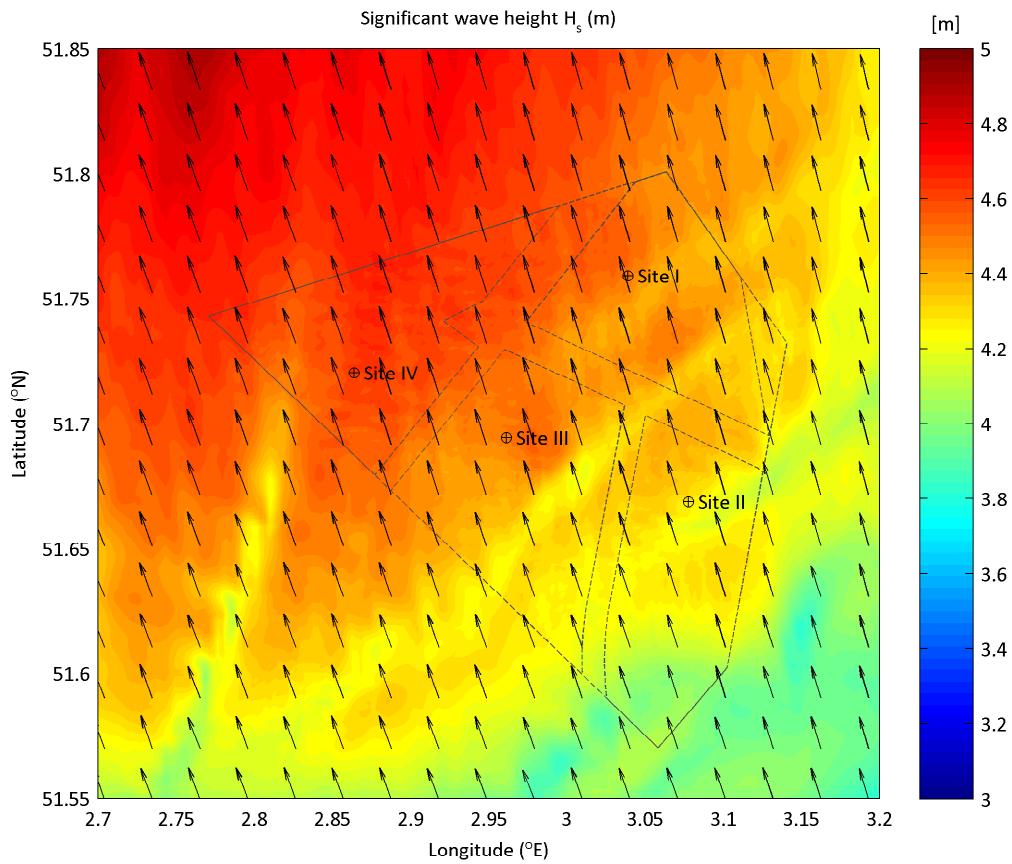
Extreme wave condition from Sector135 ($^{\circ}$ N) - 165 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.035



Extreme wave condition from Sector135 (°N) - 165 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

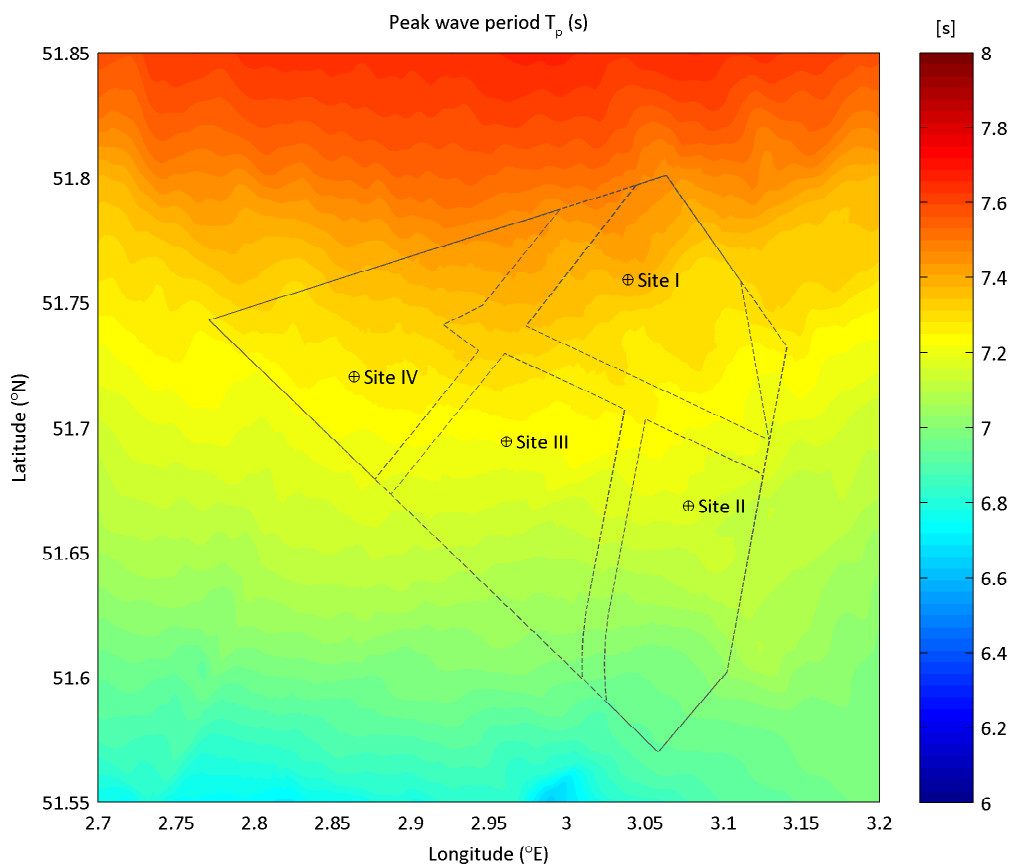
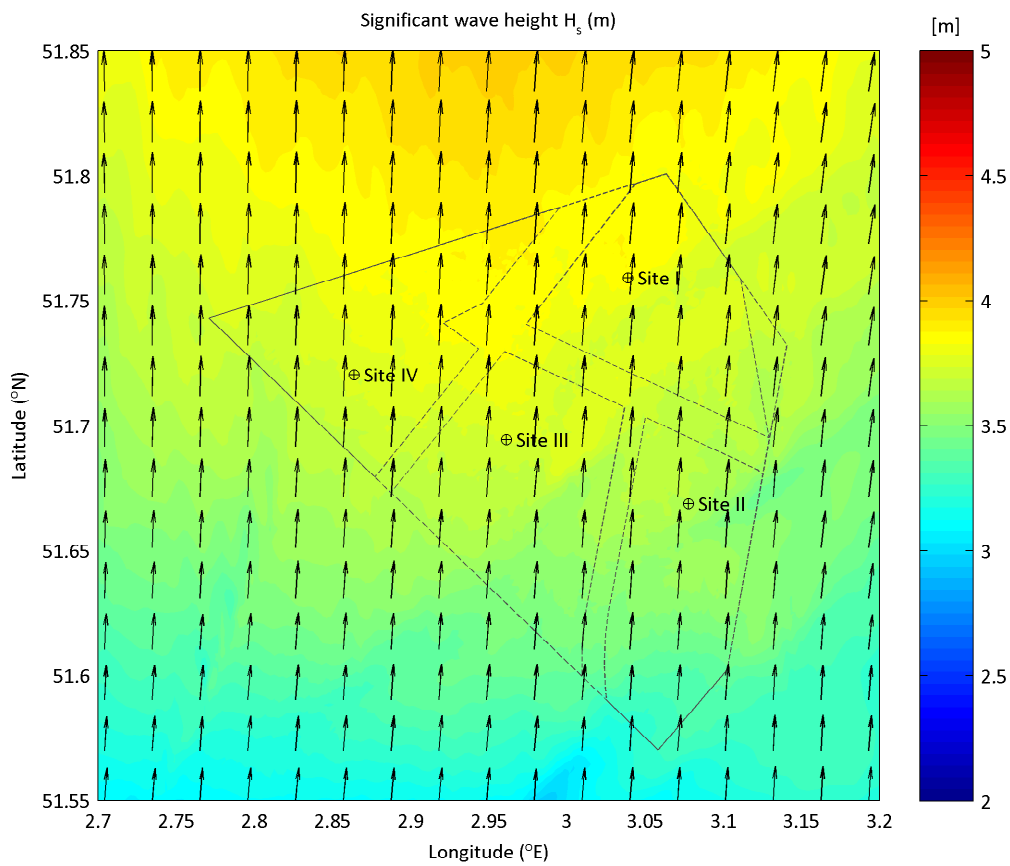
Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.036



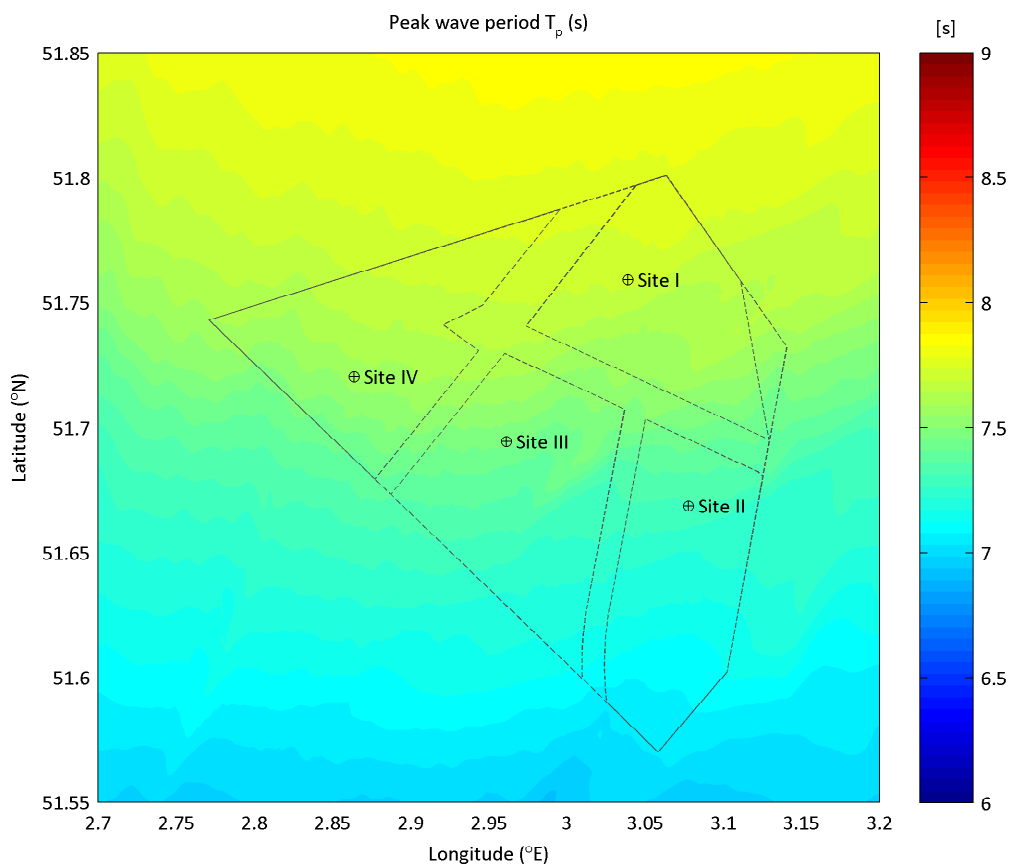
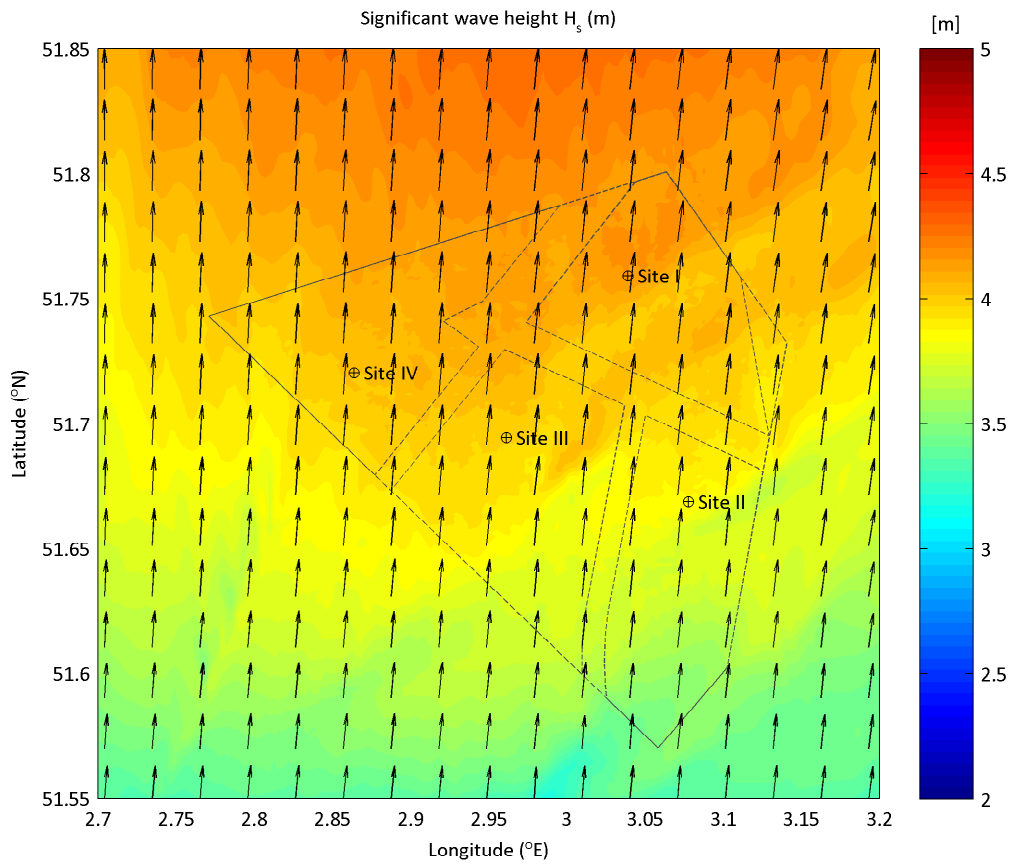
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 1yr

maximum still water level

App. B.3.037



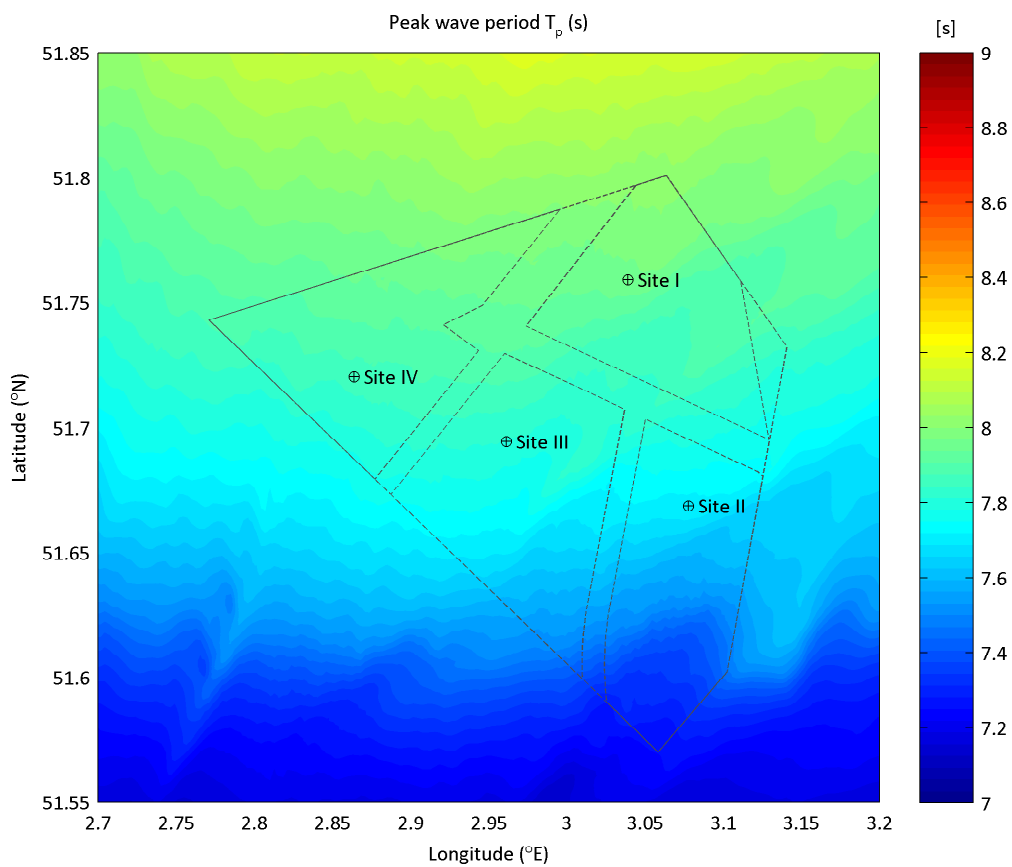
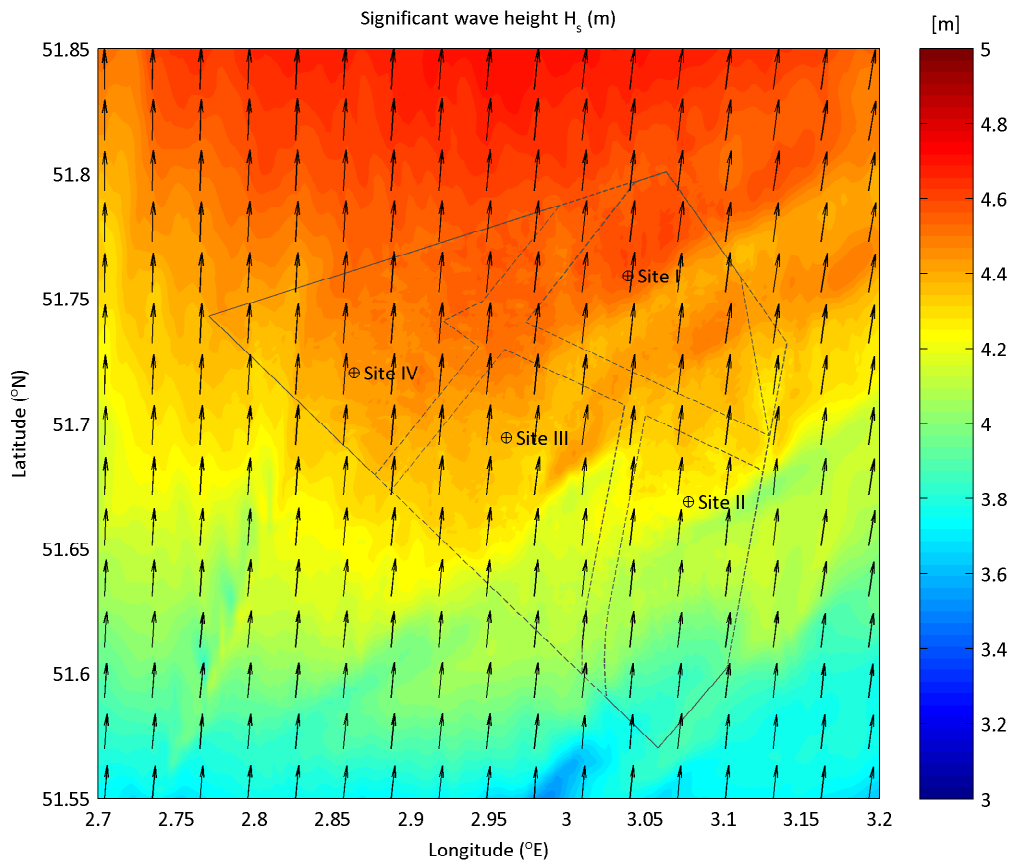
Extreme wave condition from Sector165 ($^{\circ}$ N) - 195 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

maximum still water level

App. B.3.038



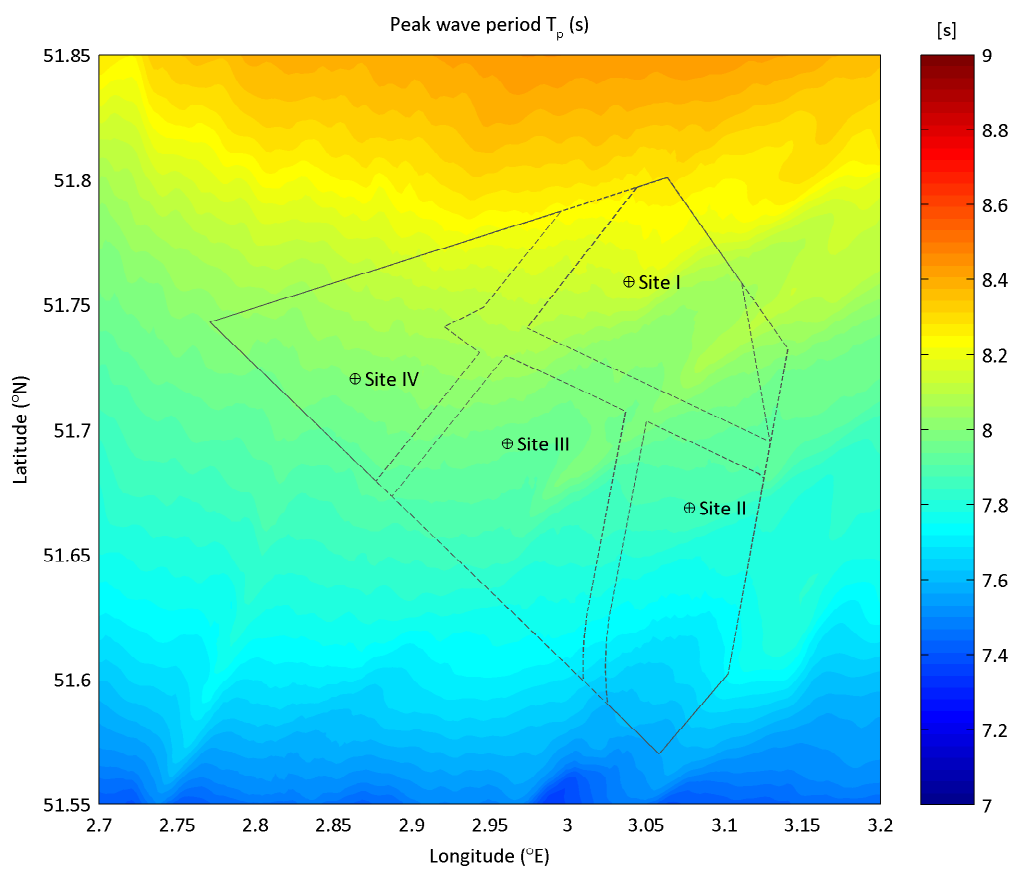
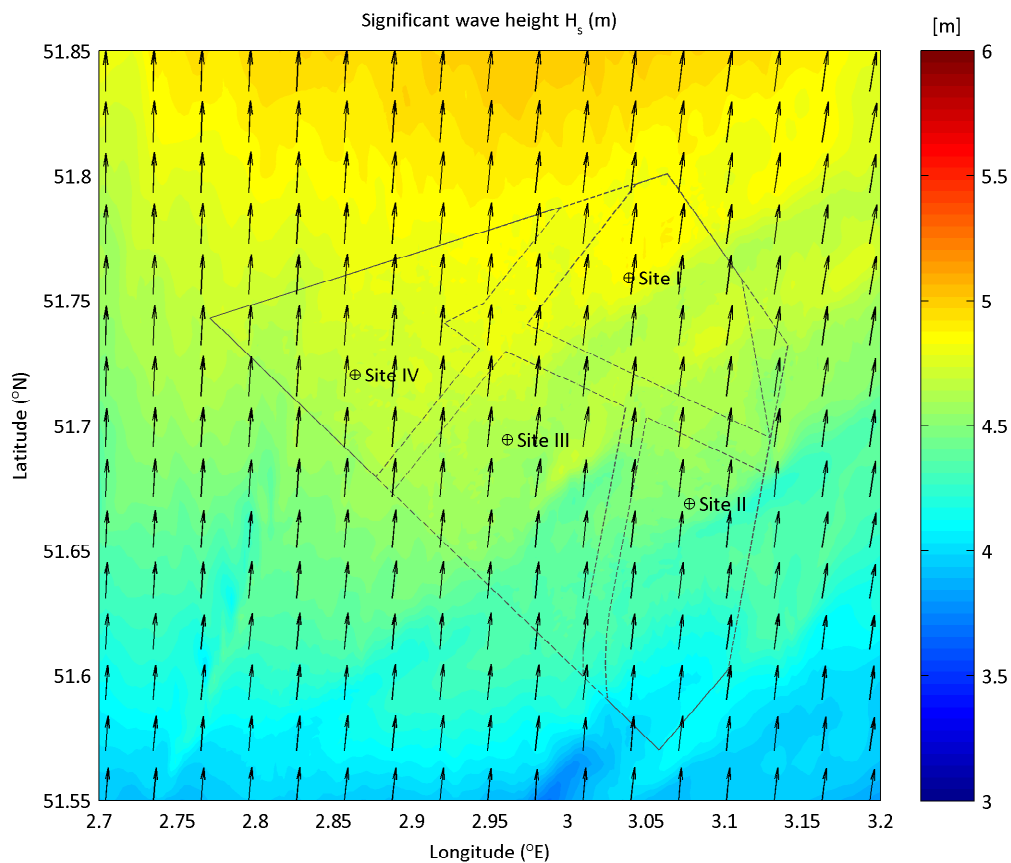
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.039



Extreme wave condition from Sector165 (°N) - 195 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

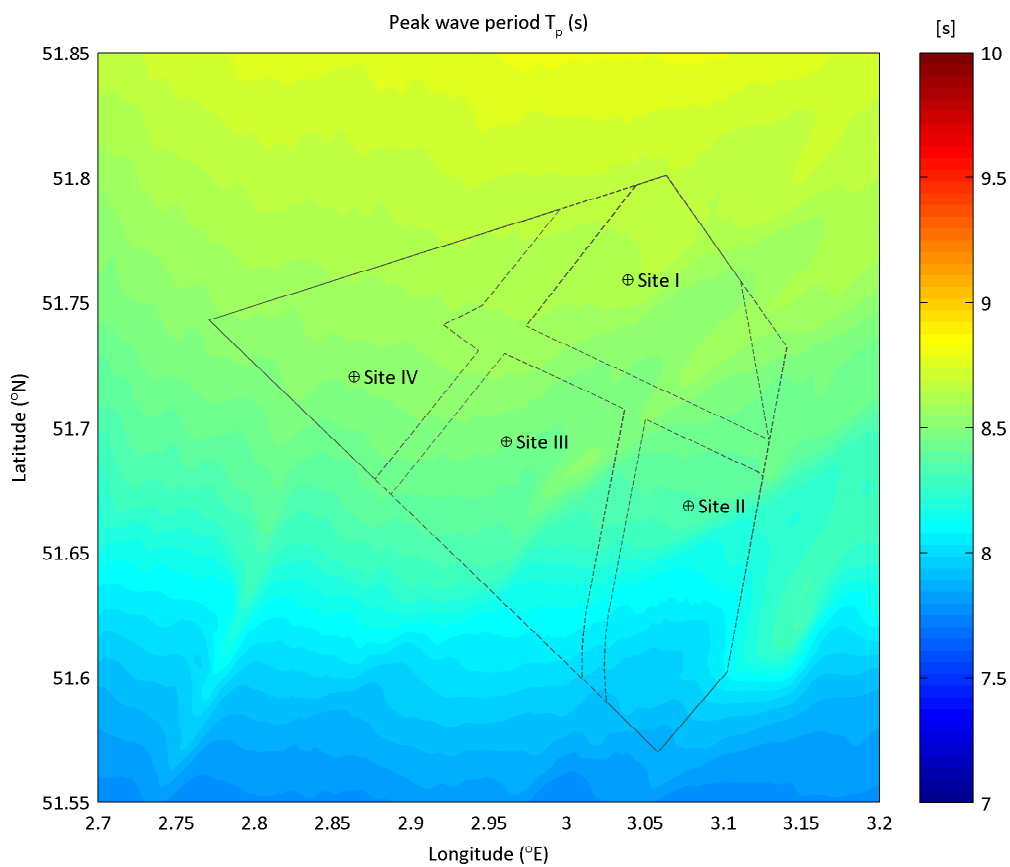
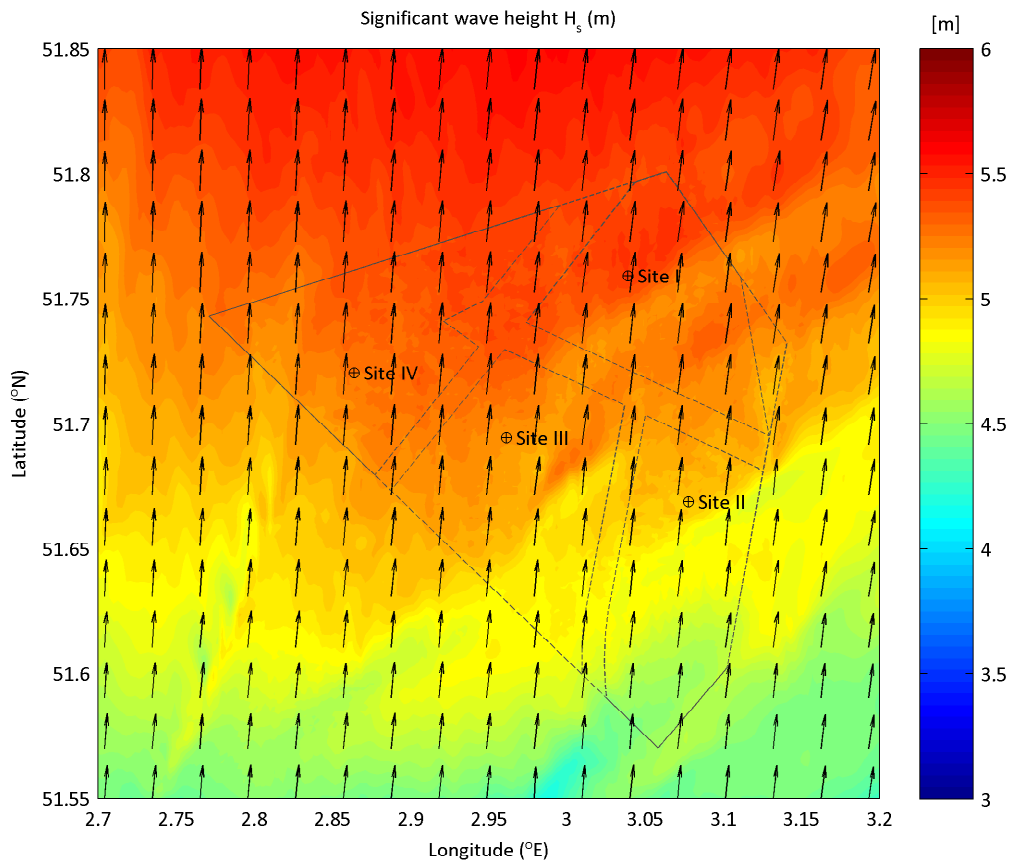
Nautical convention: coming from, clockwise from North

RP: 10yr

maximum still water level

Deltares

App. B.3.040



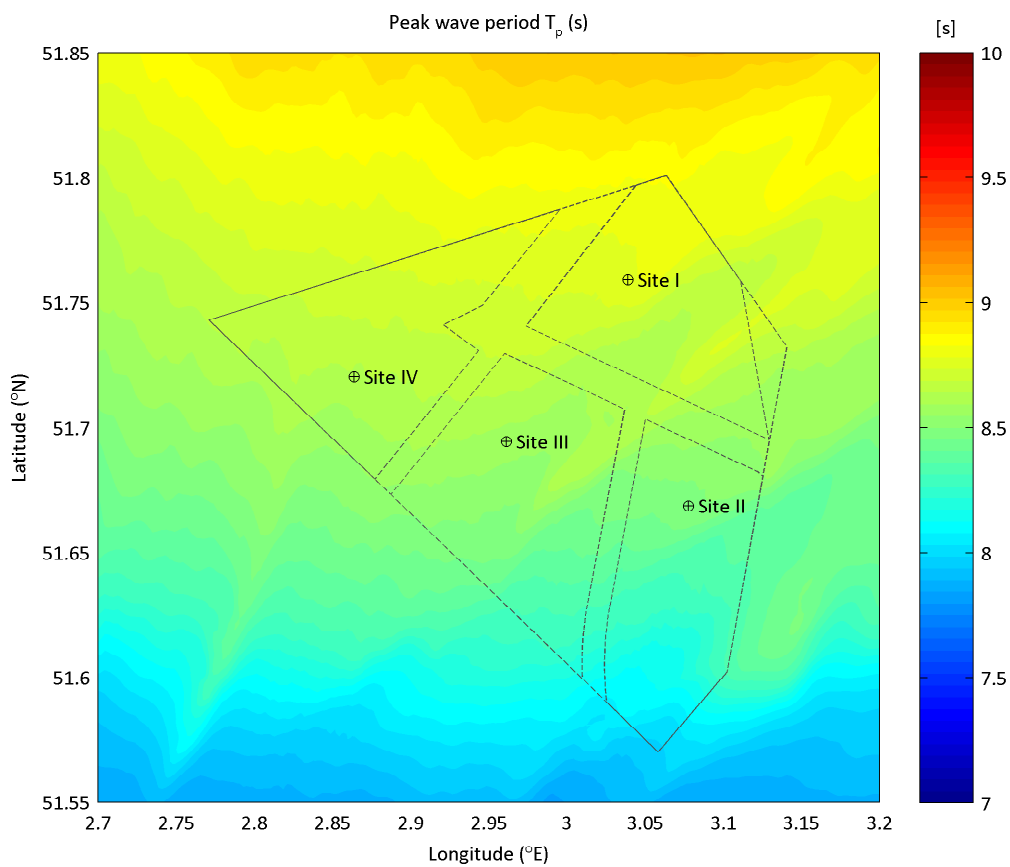
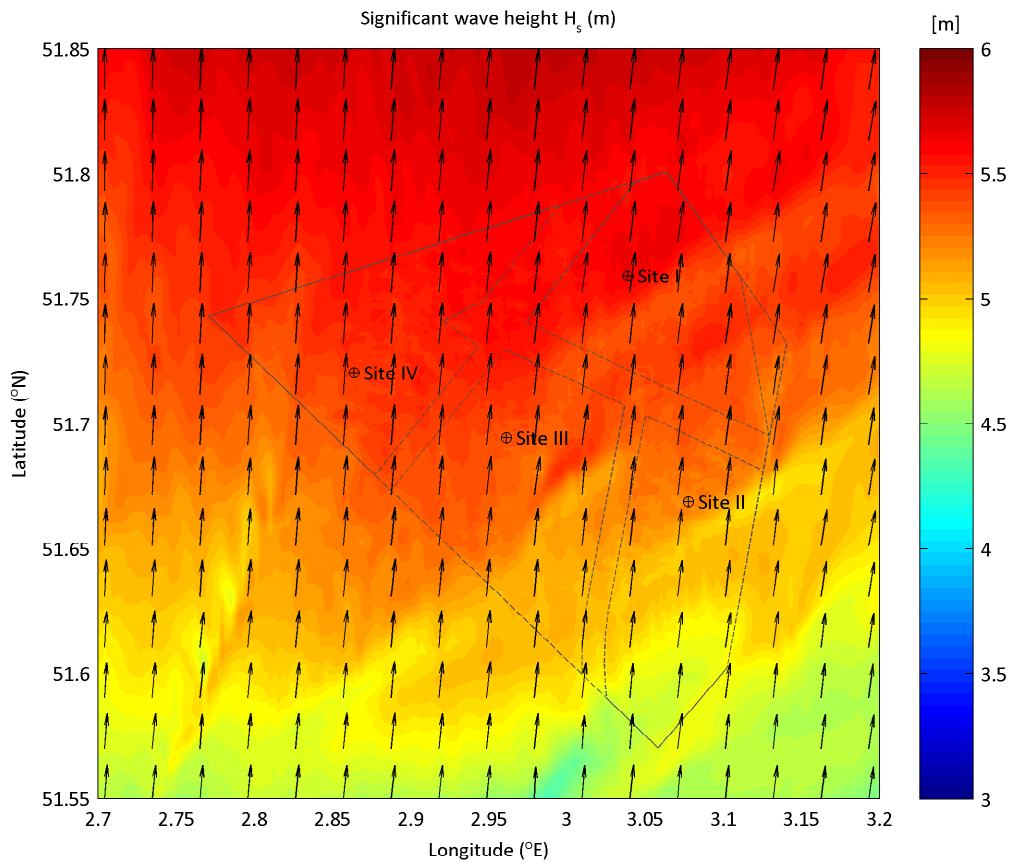
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

maximum still water level

App. B.3.041



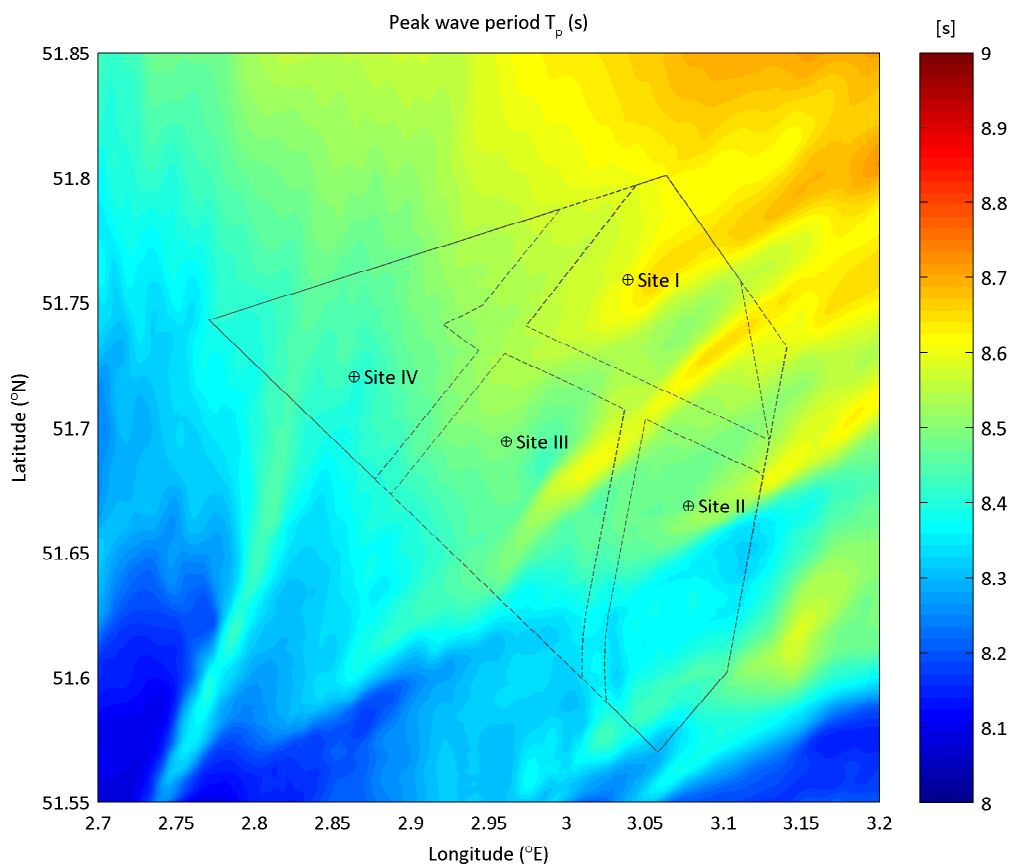
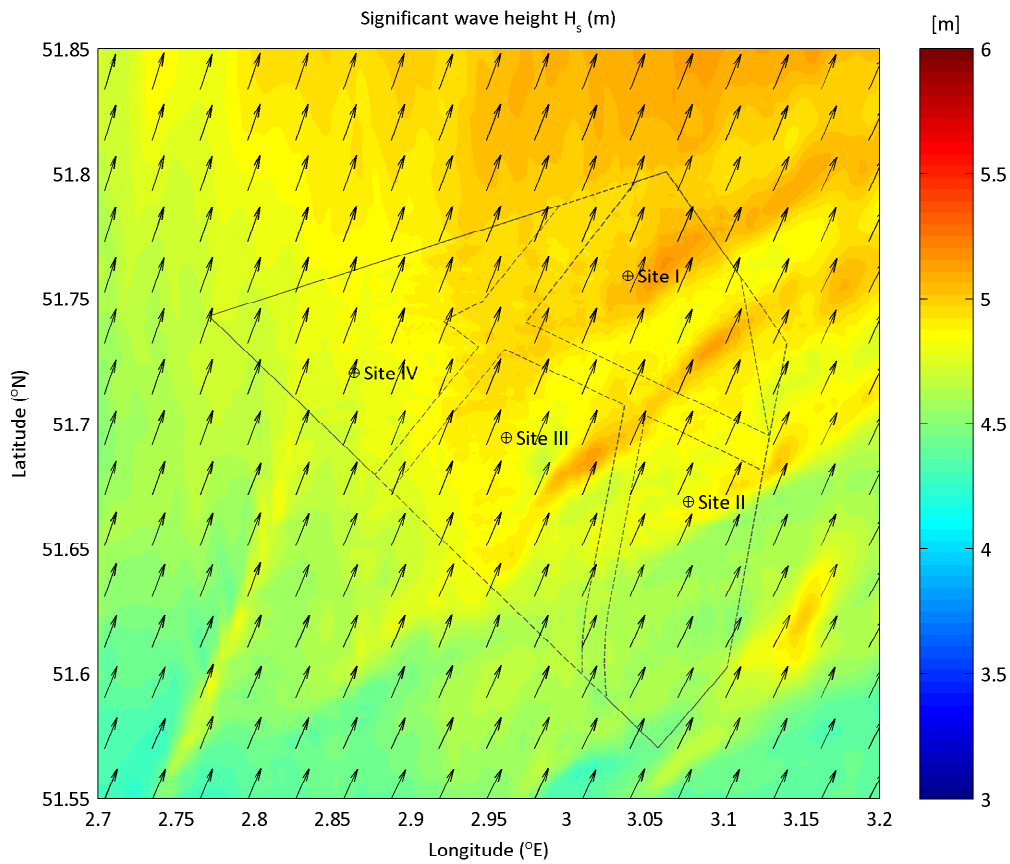
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

maximum still water level

App. B.3.042



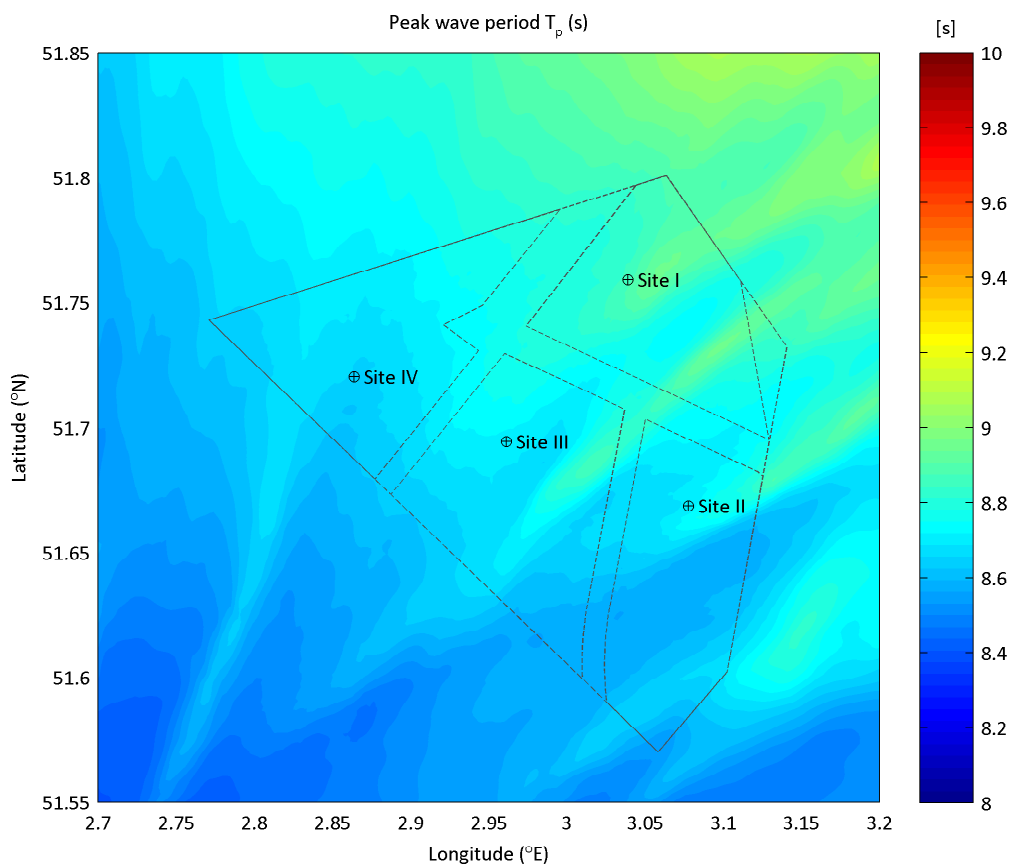
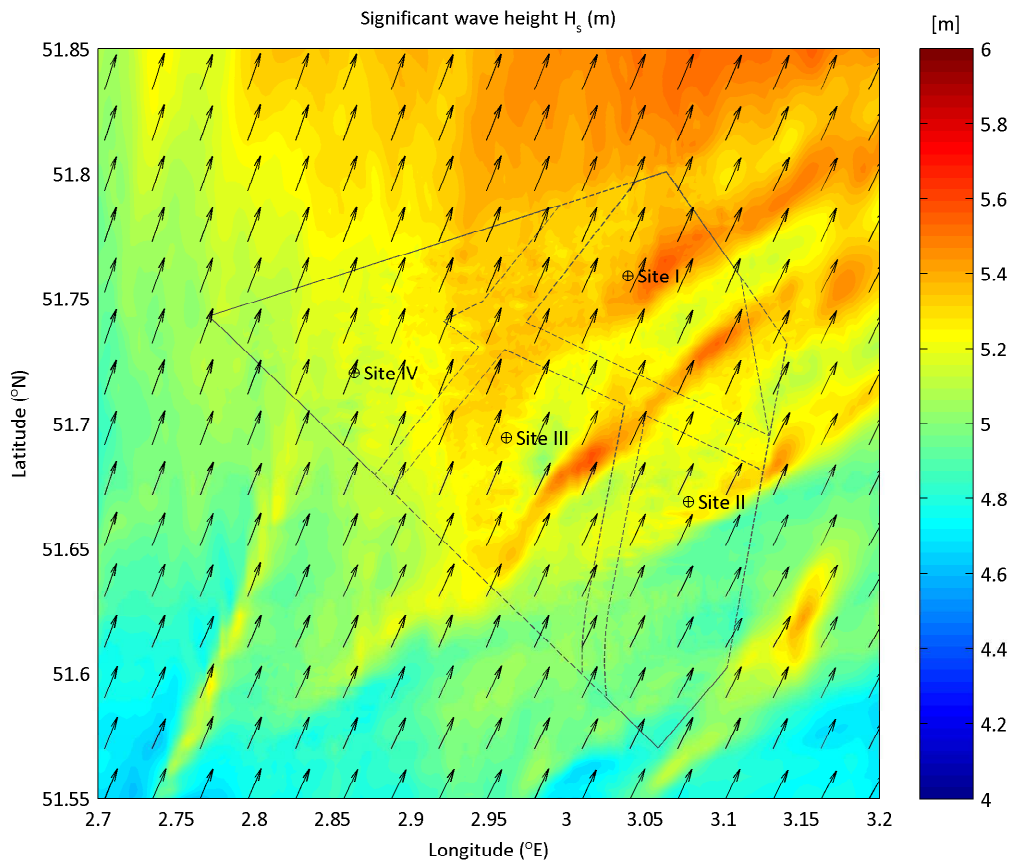
Extreme wave condition from Sector195 (°N) - 225 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.043



Extreme wave condition from Sector195 (°N) - 225 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

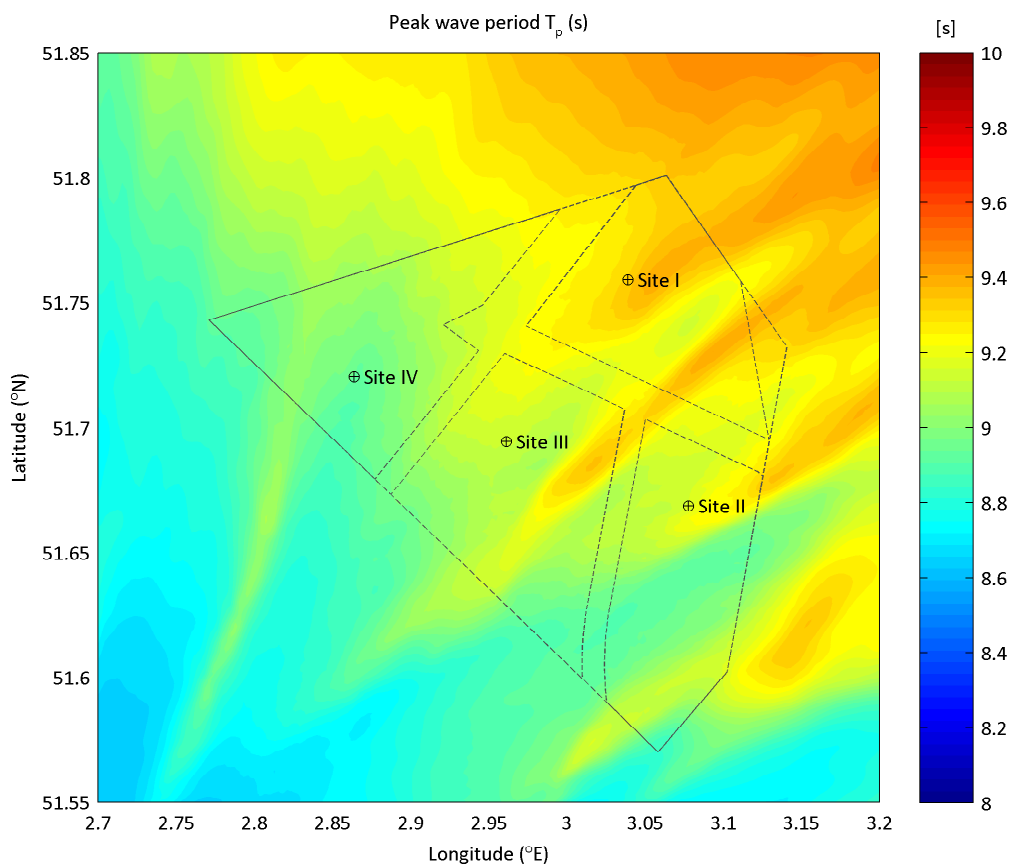
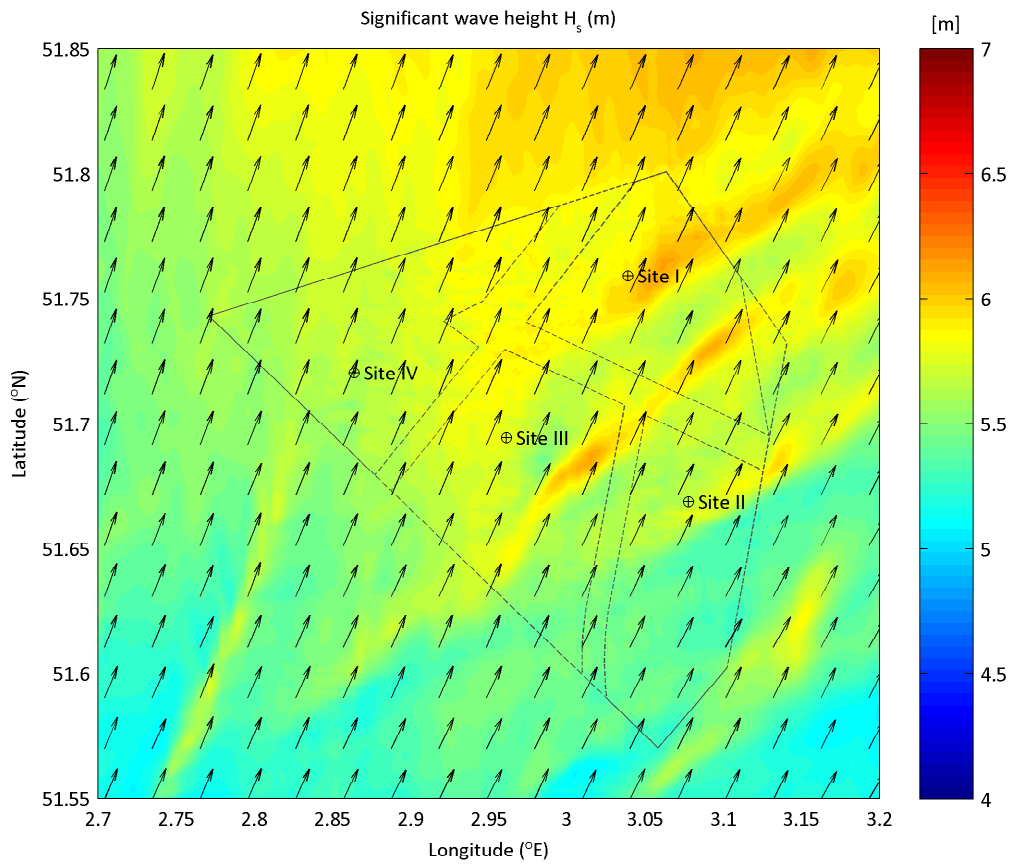
Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.044



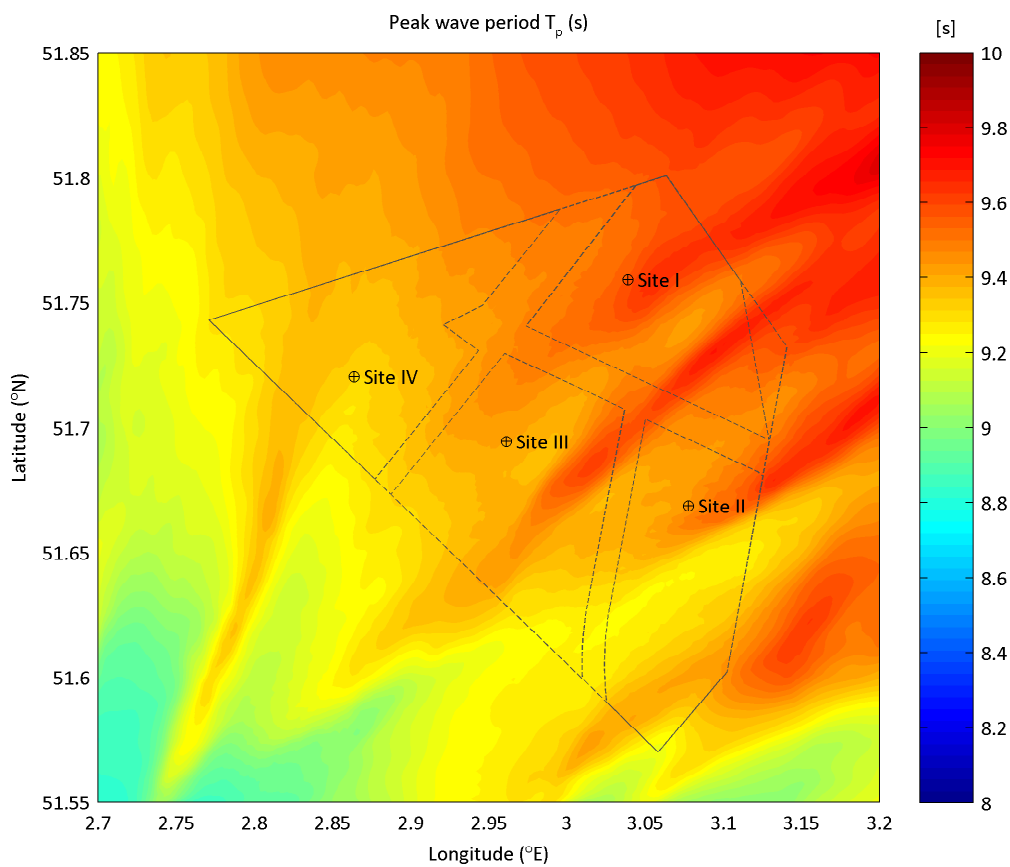
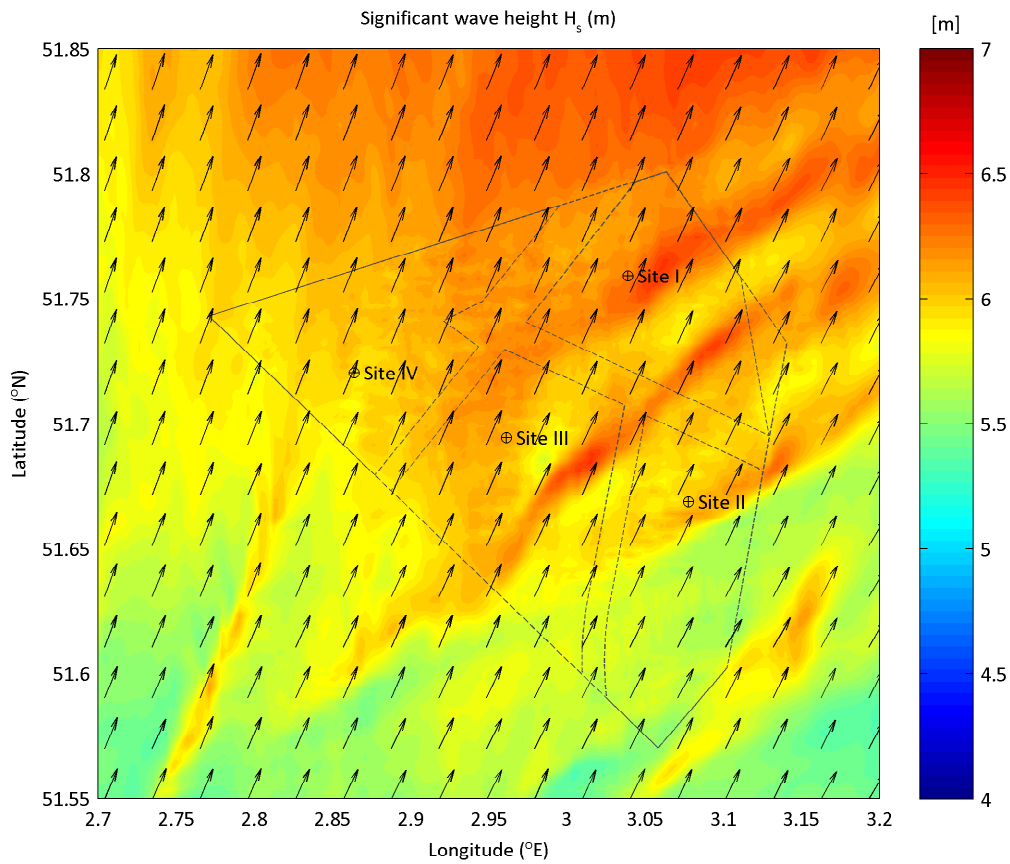
Extreme wave condition from Sector195 (°N) - 225 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.045



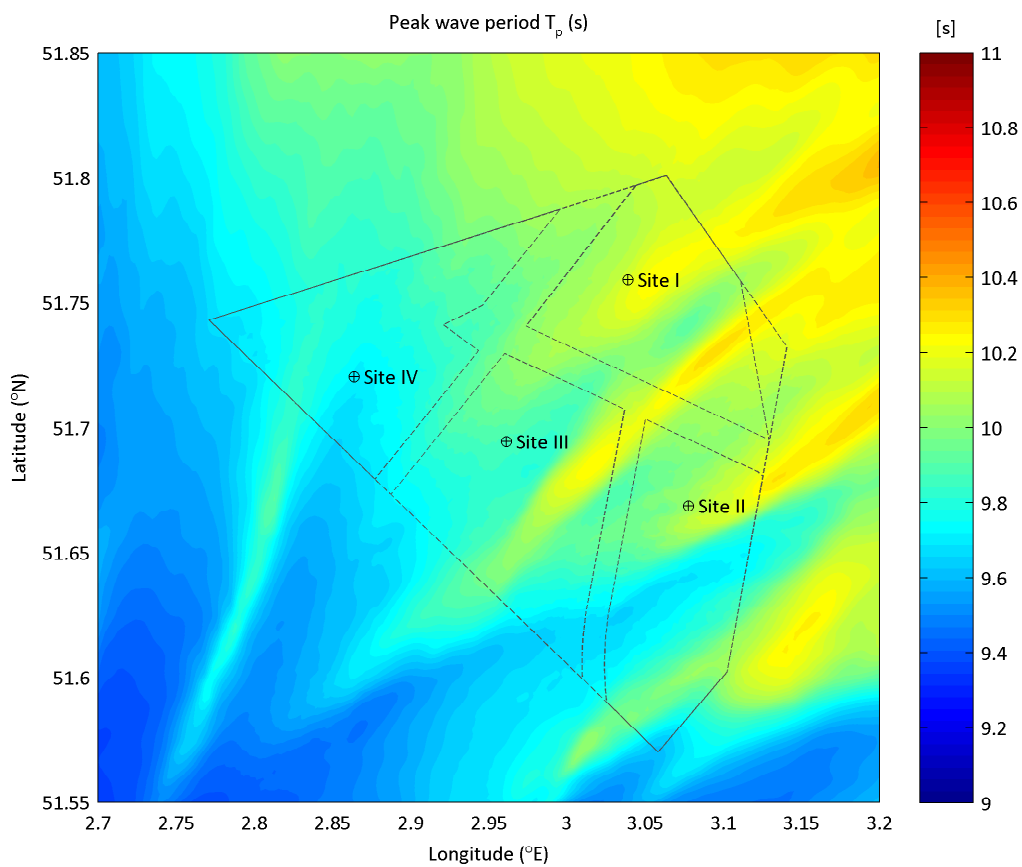
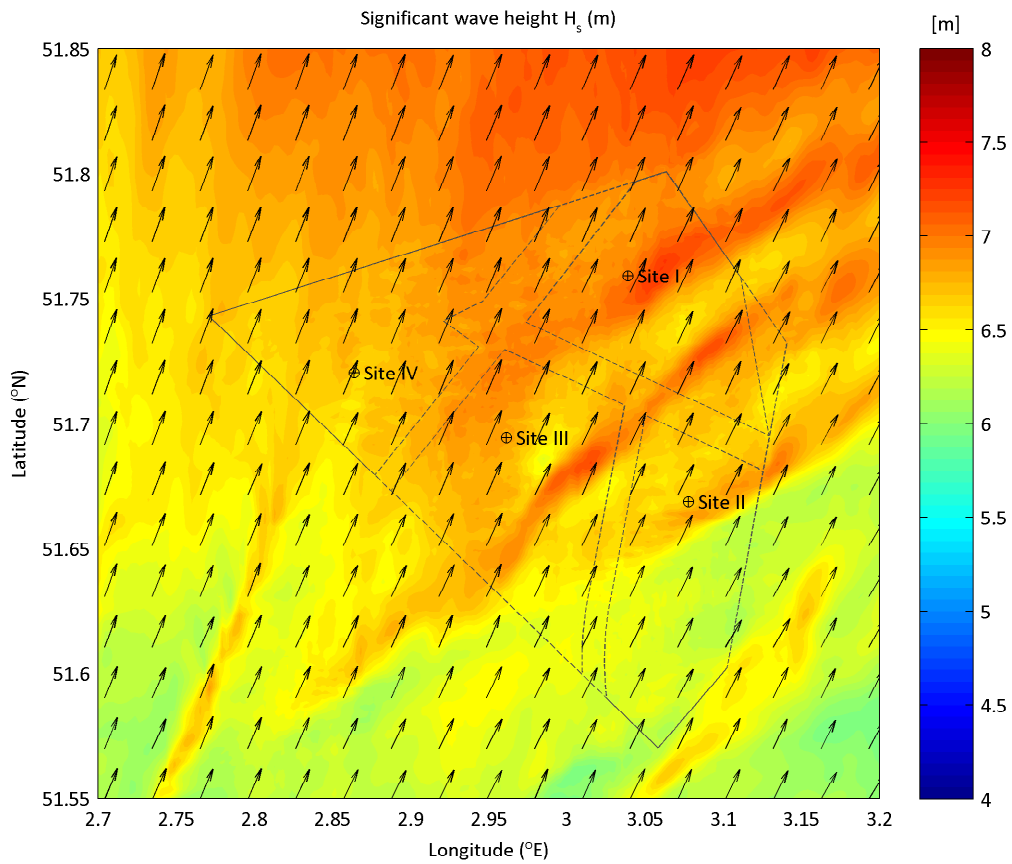
Extreme wave condition from Sector195 (°N) - 225 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.046



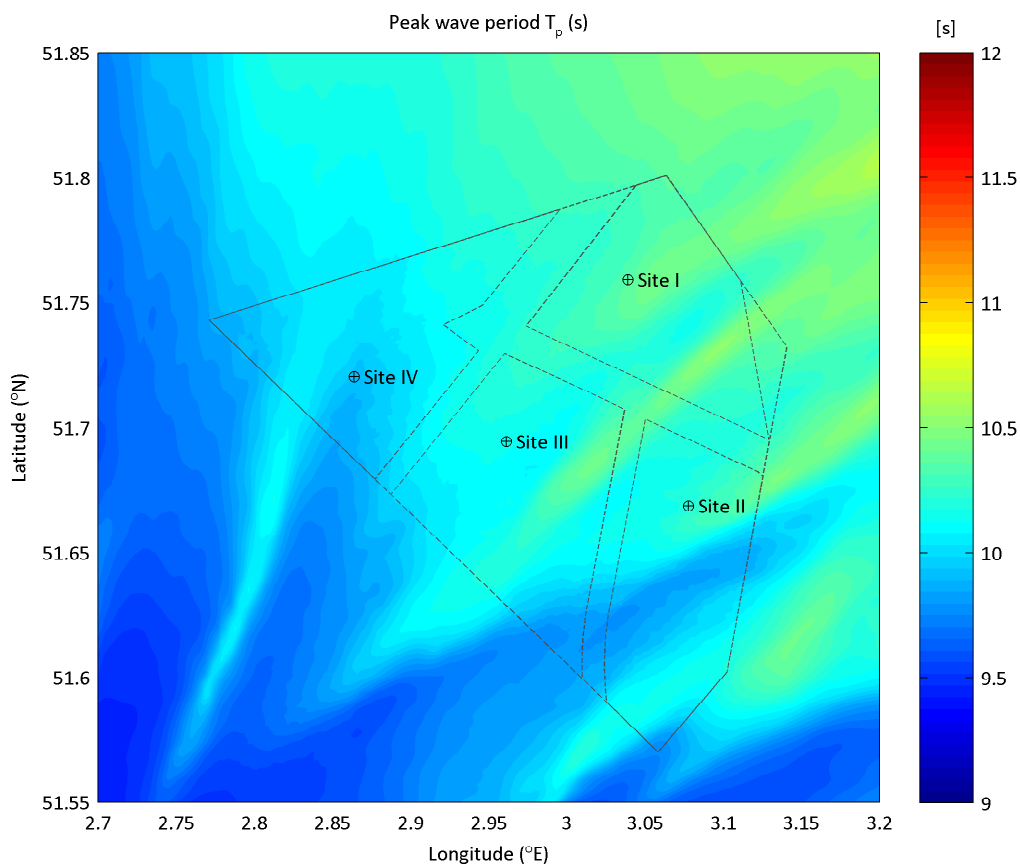
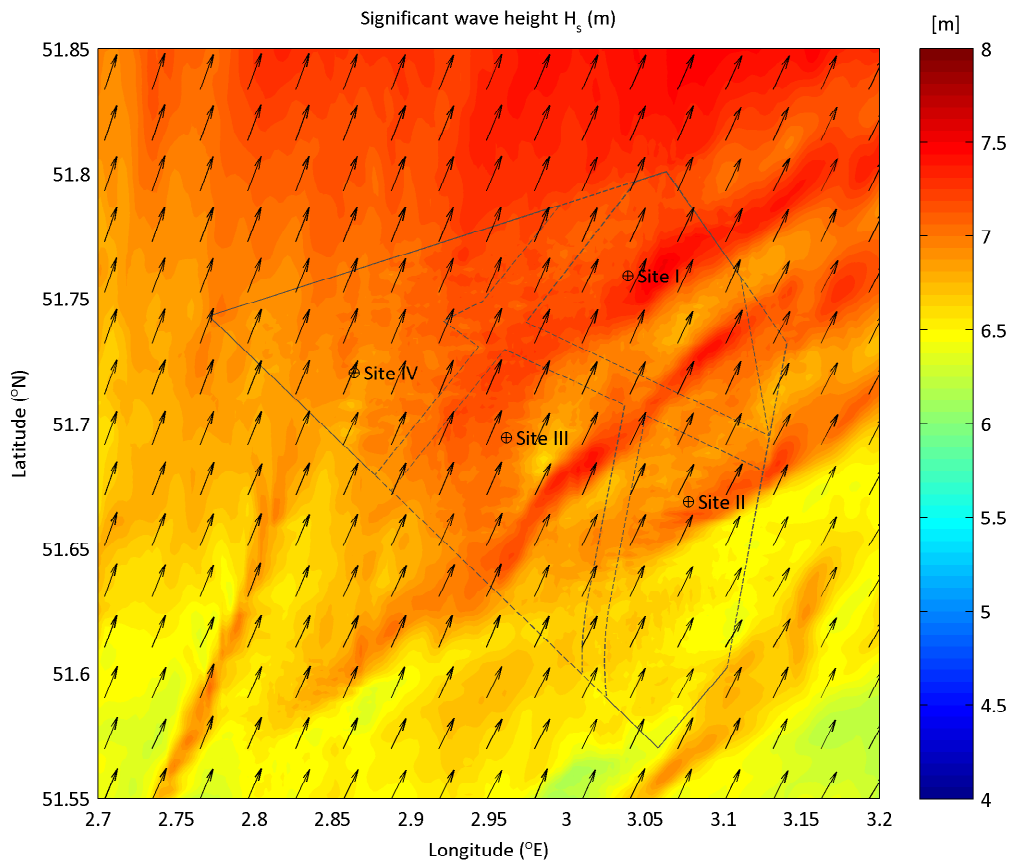
Extreme wave condition from Sector195 ($^{\circ}$ N) - 225 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.047



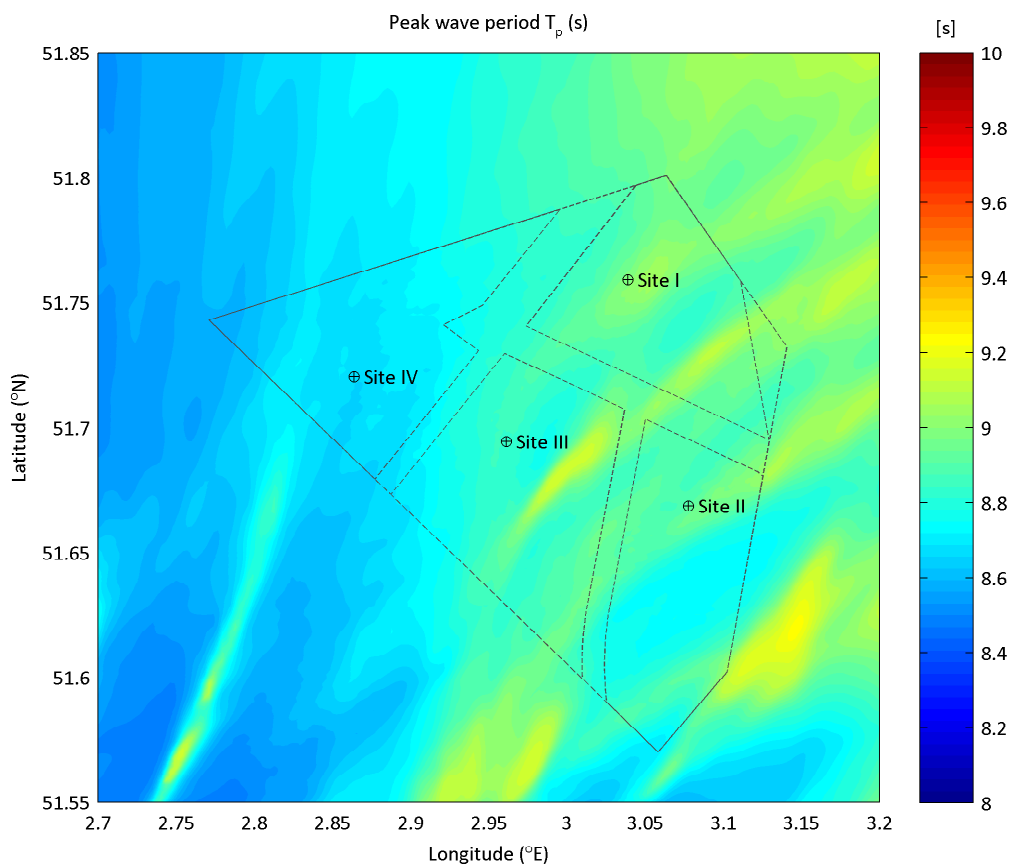
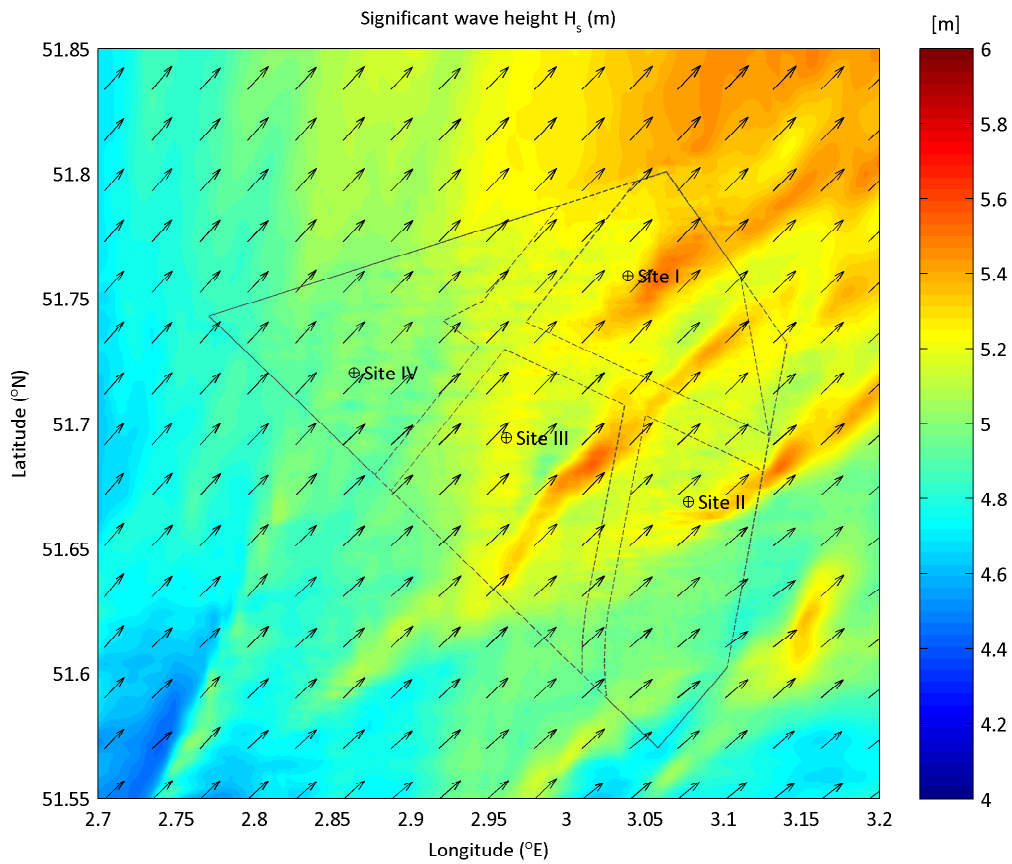
Extreme wave condition from Sector195 (°N) - 225 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

maximum still water level

App. B.3.048



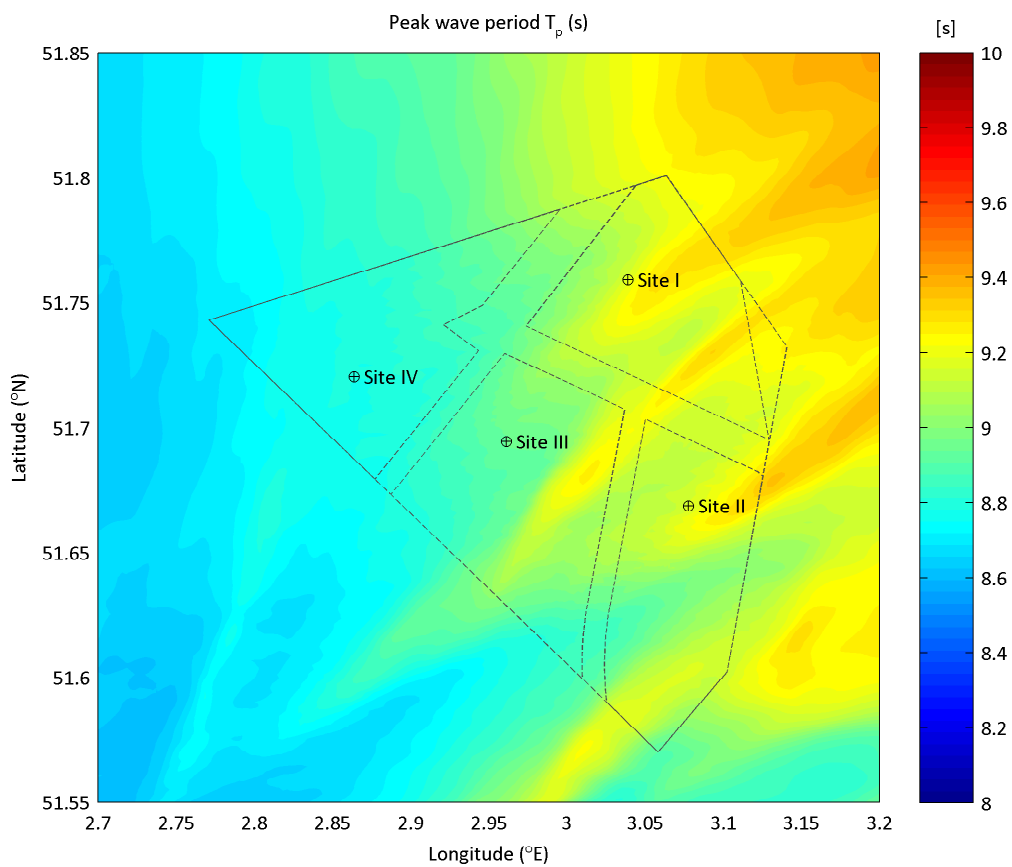
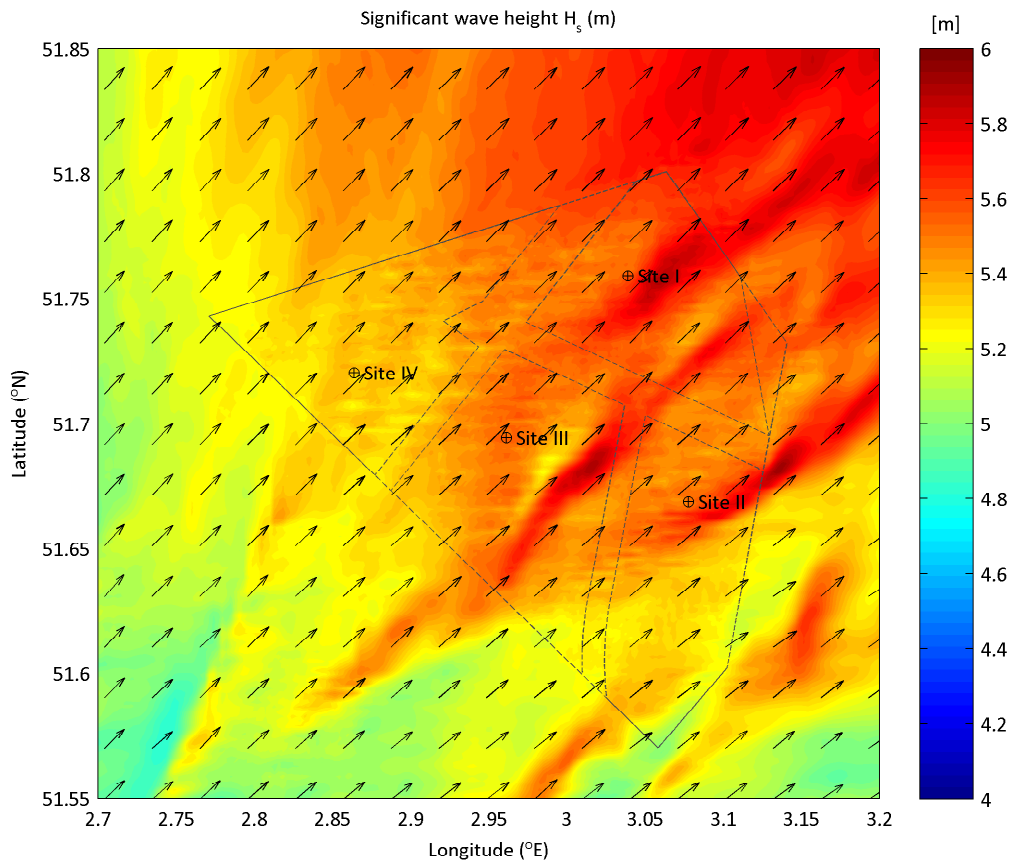
Extreme wave condition from Sector225 (°N) - 255 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.049



Extreme wave condition from Sector225 ($^{\circ}$ N) - 255 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

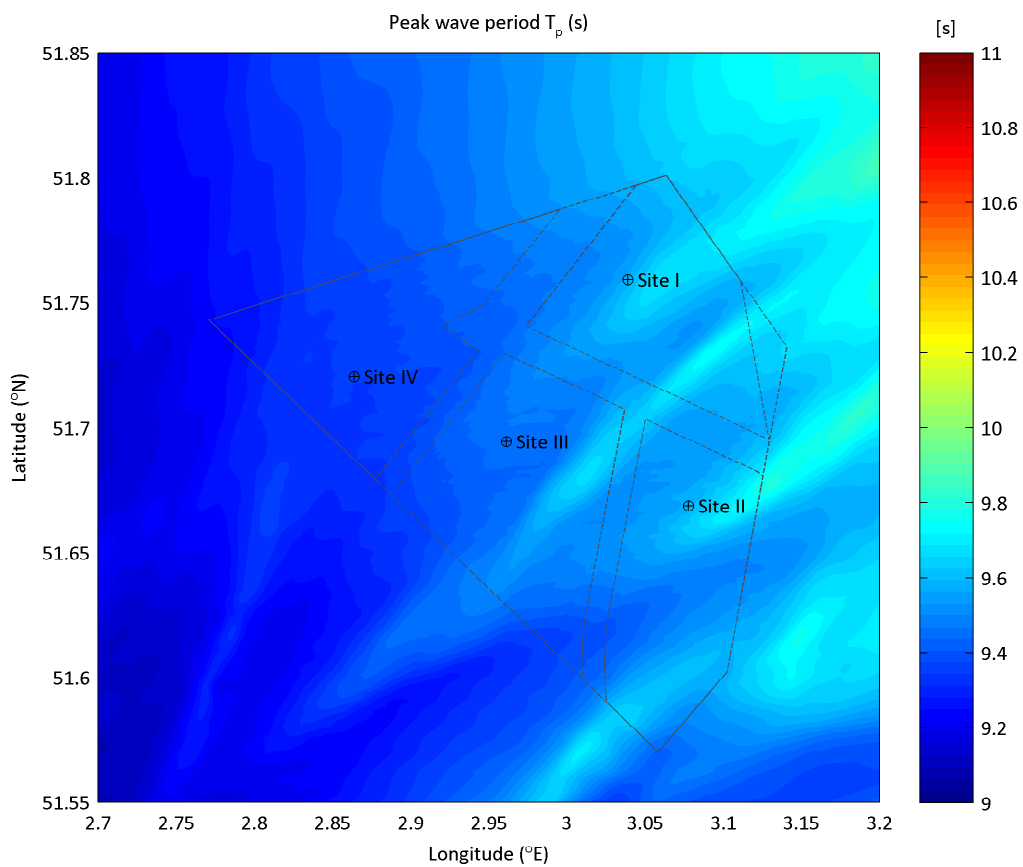
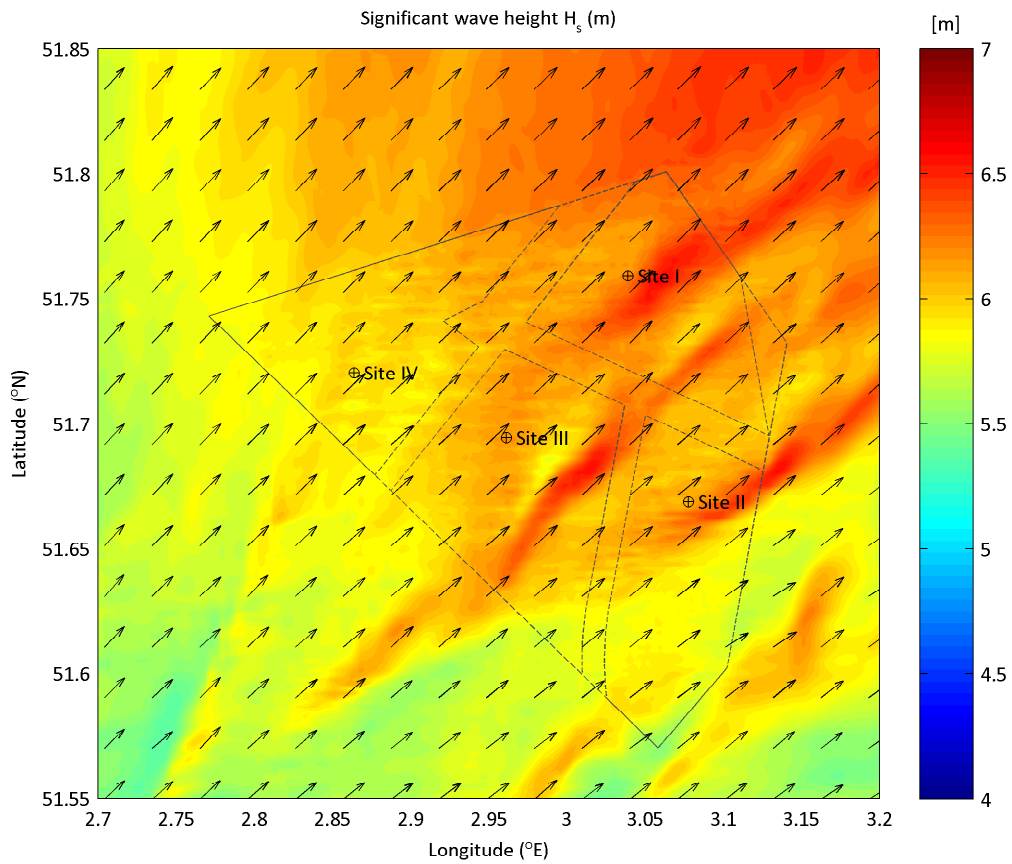
Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.050



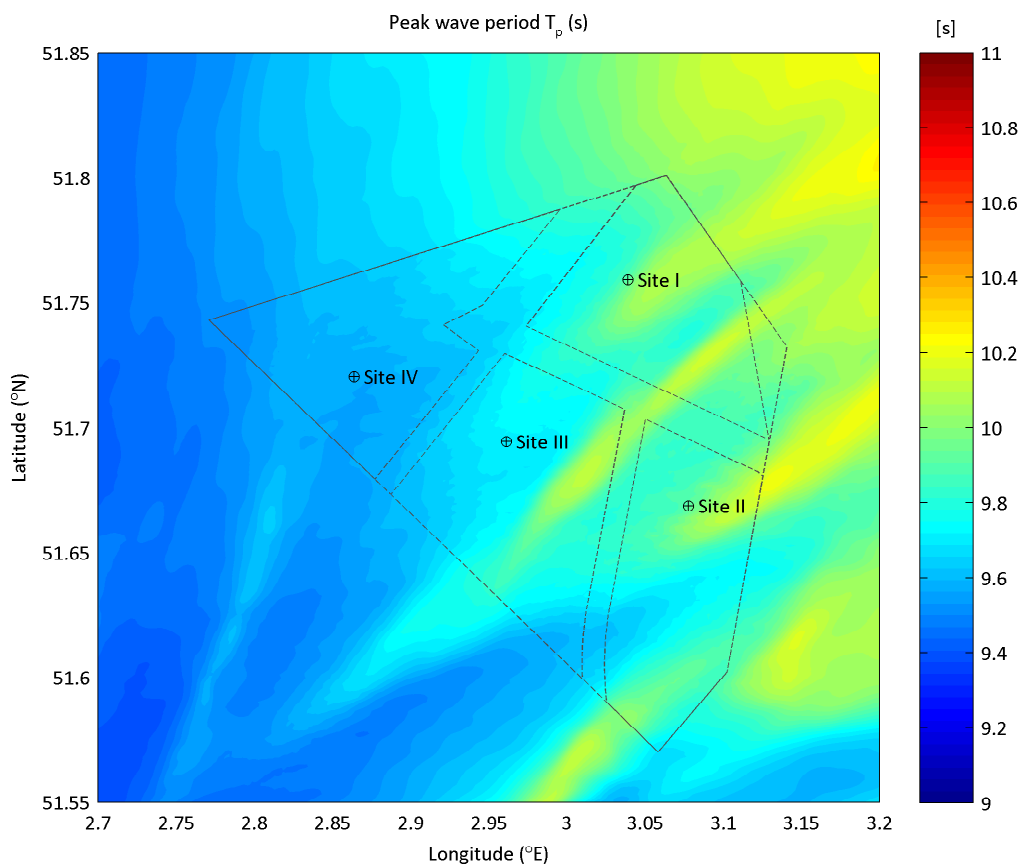
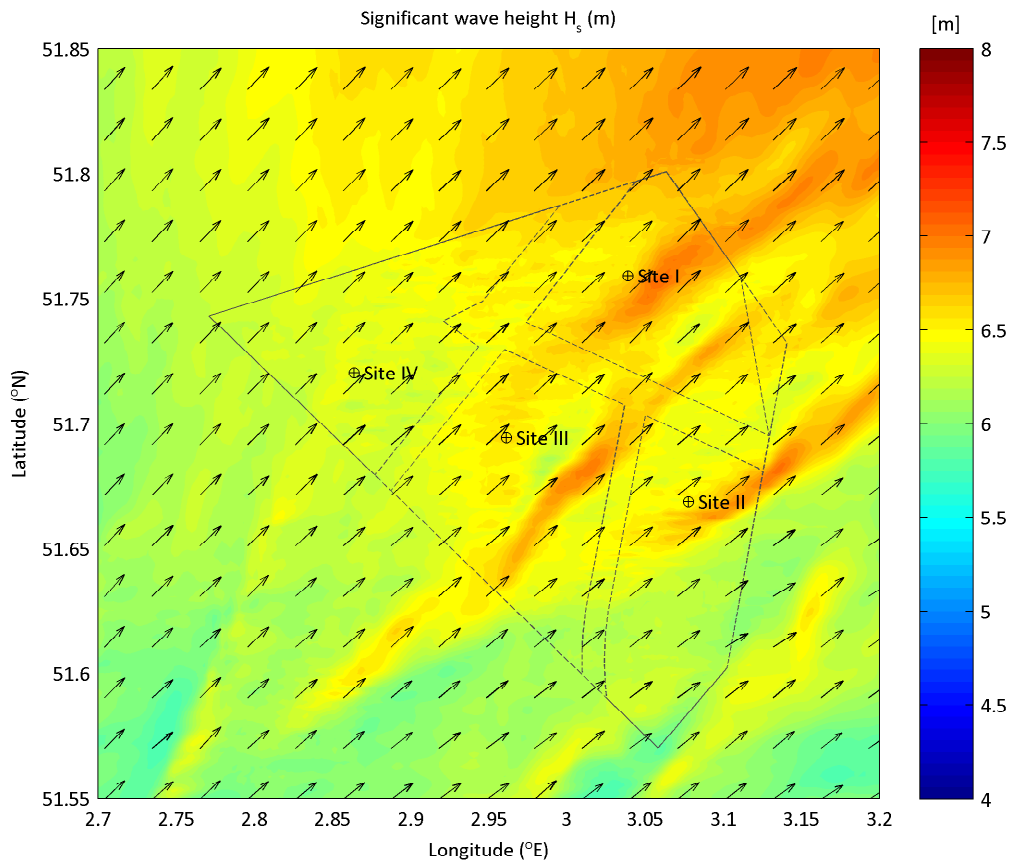
Extreme wave condition from Sector225 ($^{\circ}$ N) - 255 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

maximum still water level

App. B.3.051



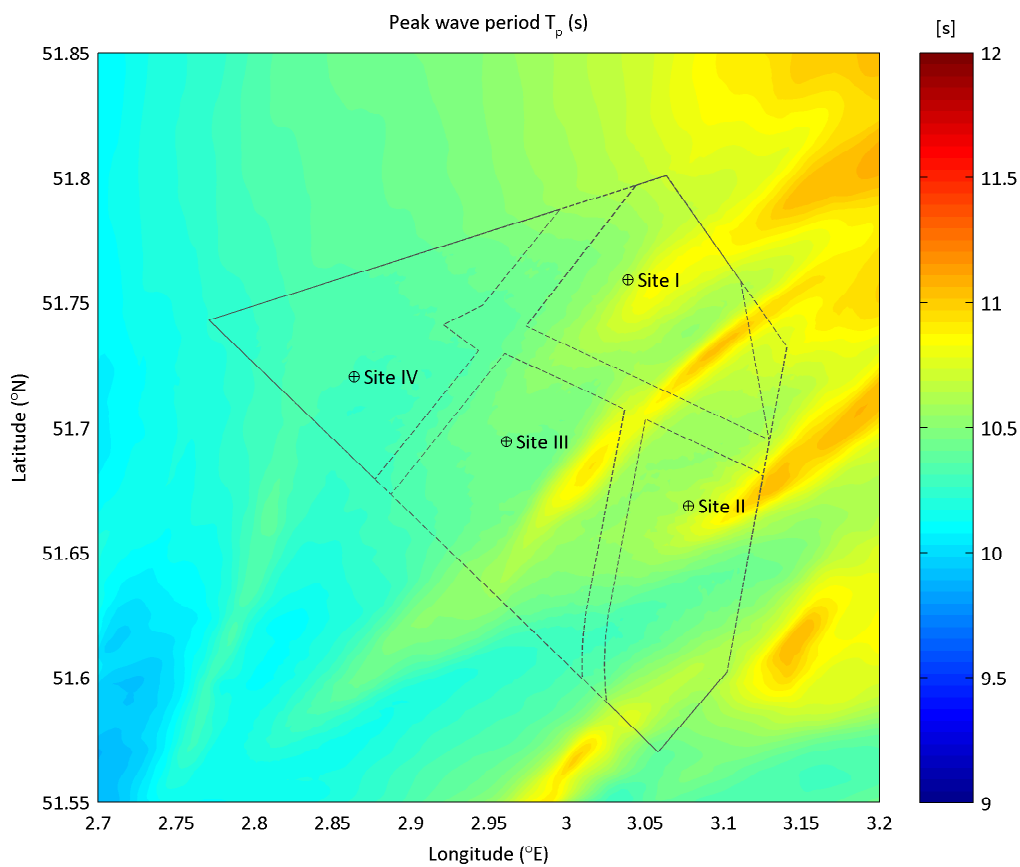
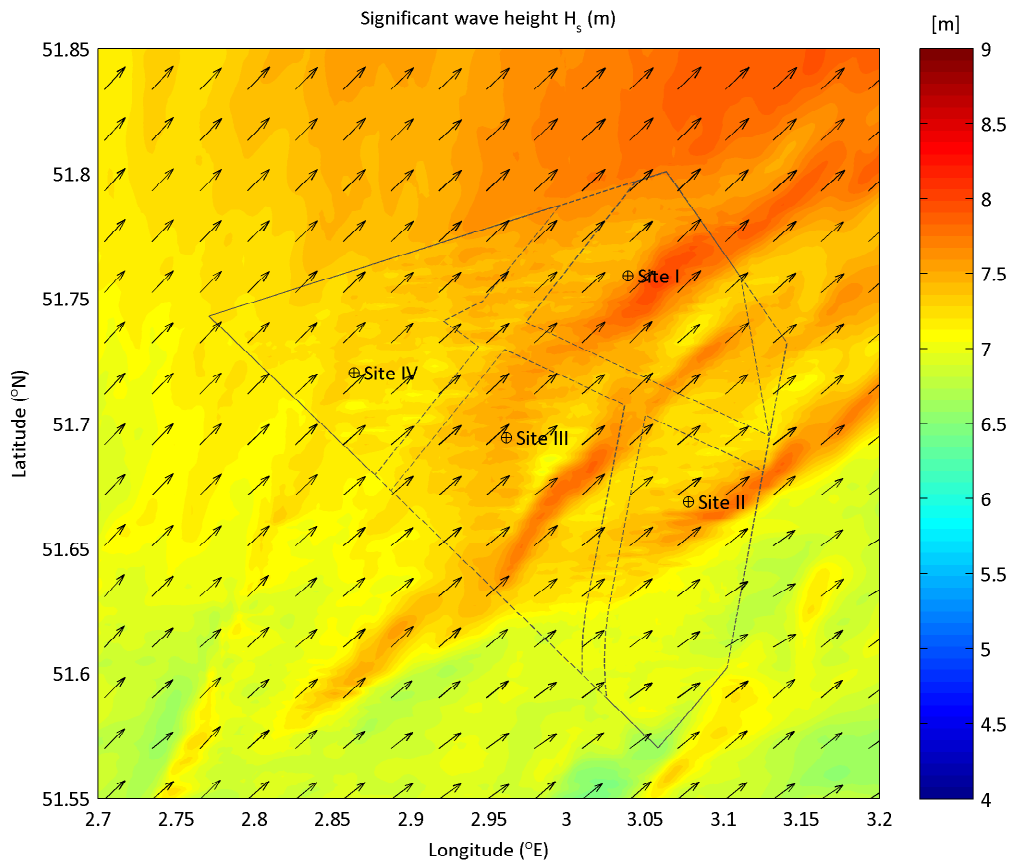
Extreme wave condition from Sector225 (°N) - 255 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

maximum still water level

App. B.3.052



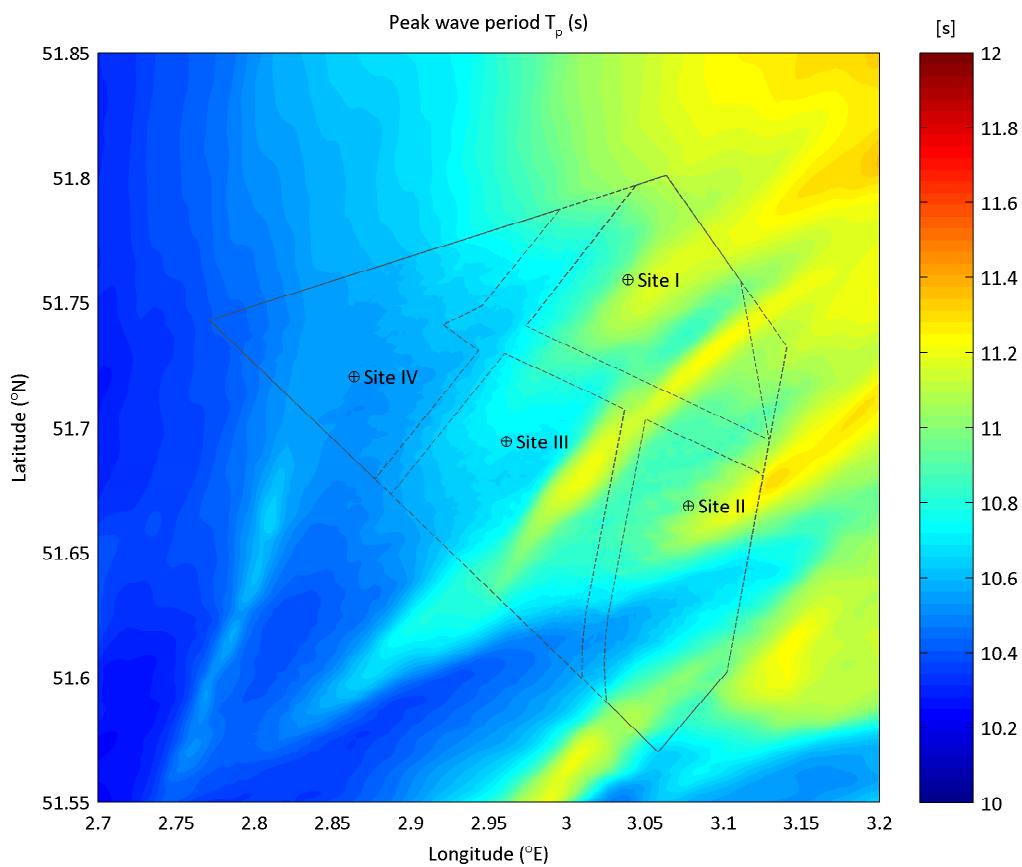
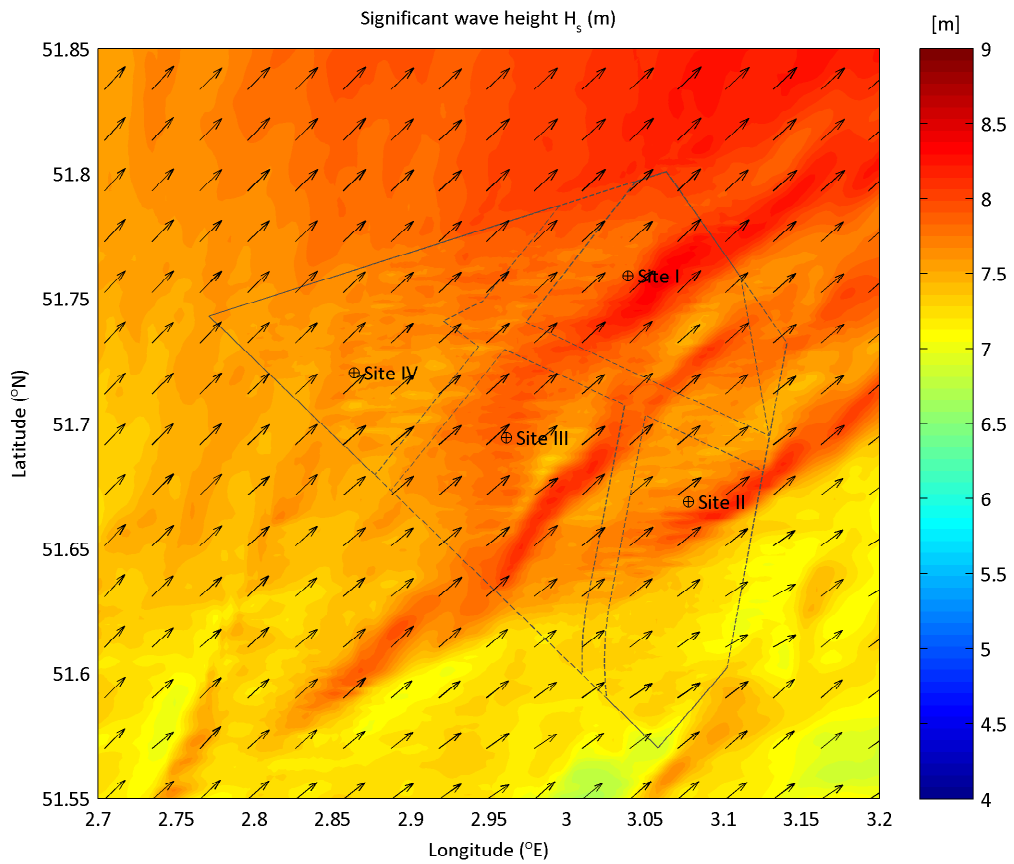
Extreme wave condition from Sector225 (°N) - 255 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

maximum still water level

App. B.3.053



Extreme wave condition from Sector225 (°N) - 255 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

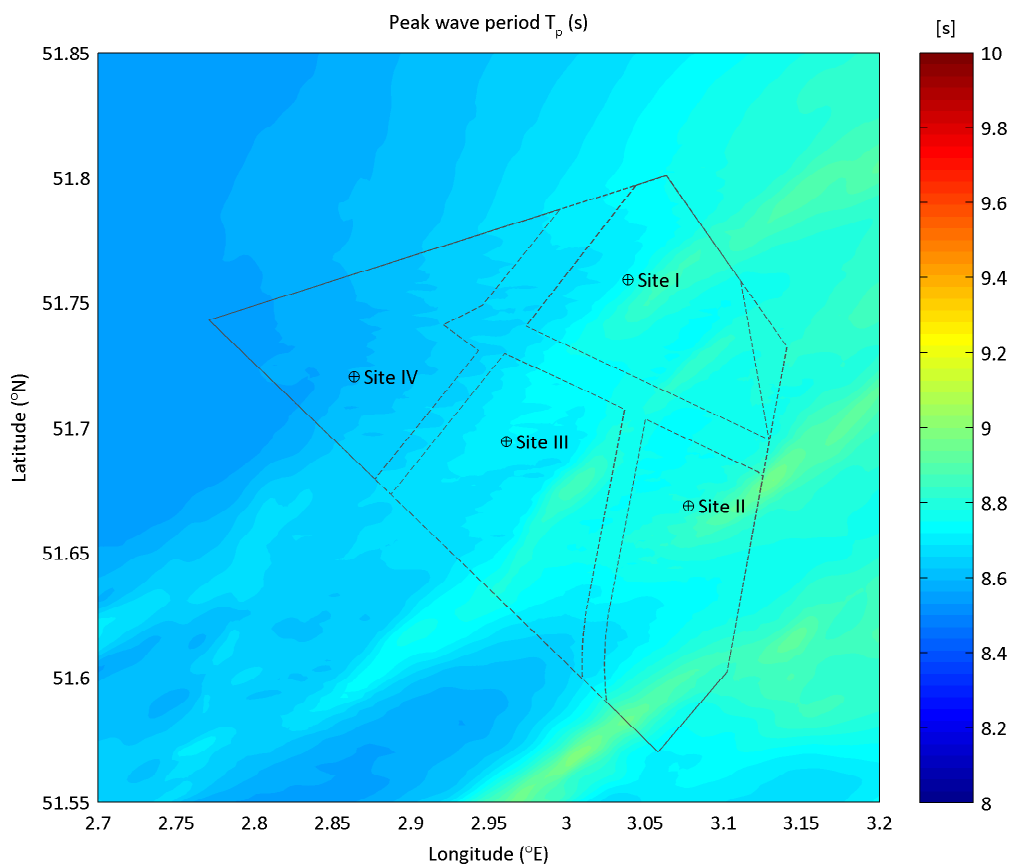
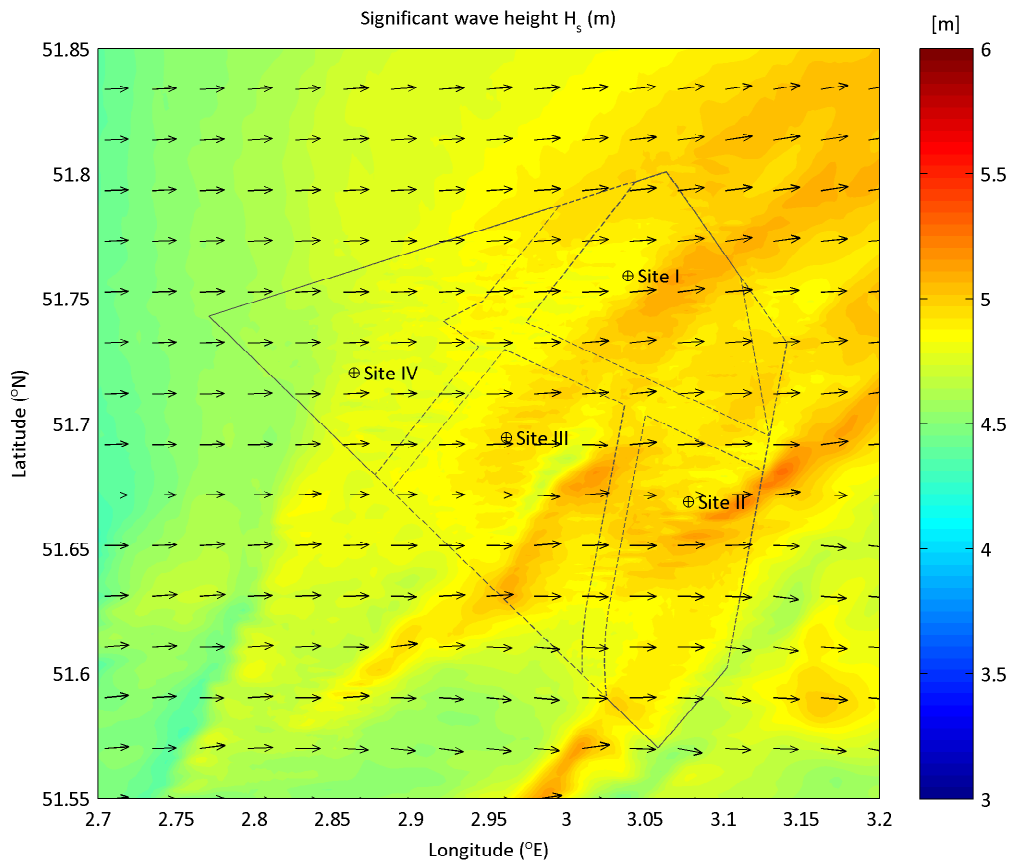
Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.054



Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

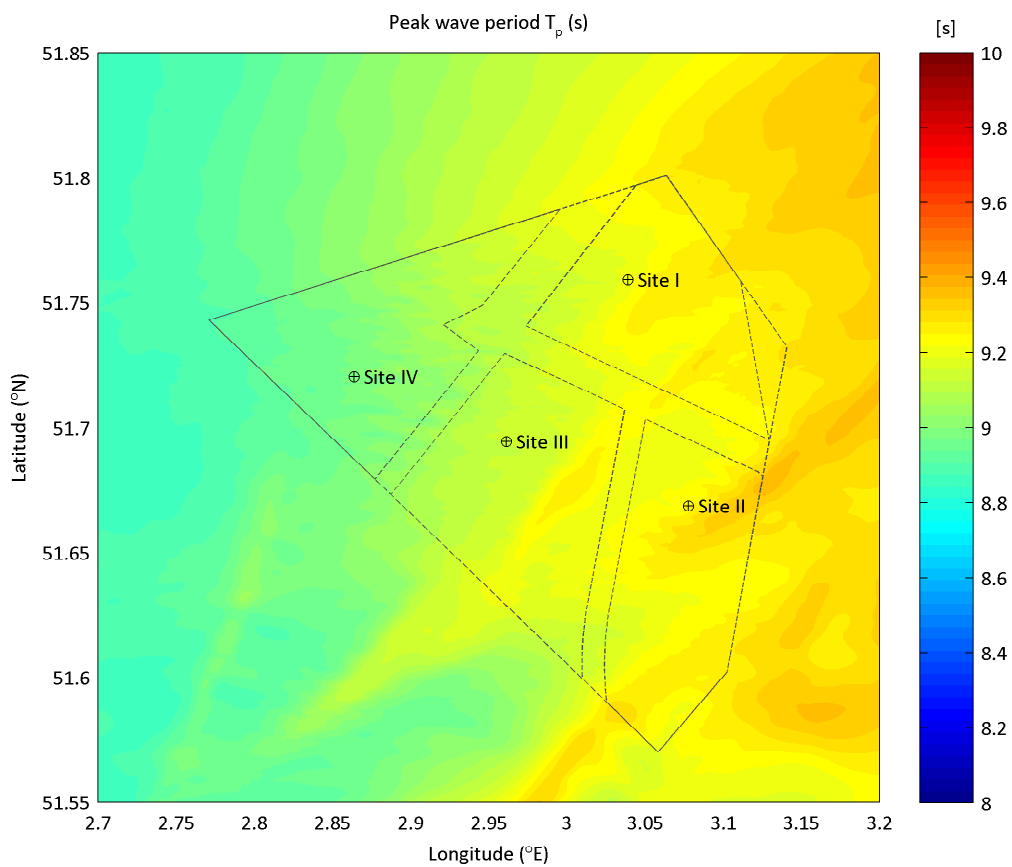
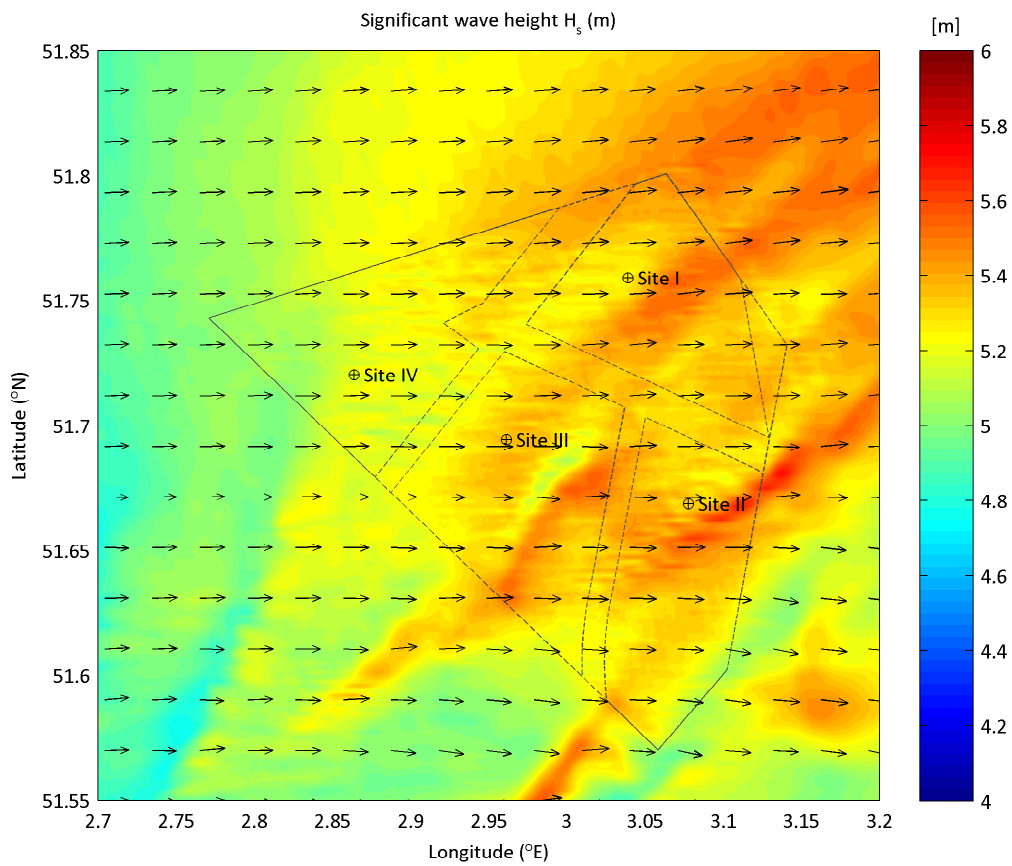
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.055



Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

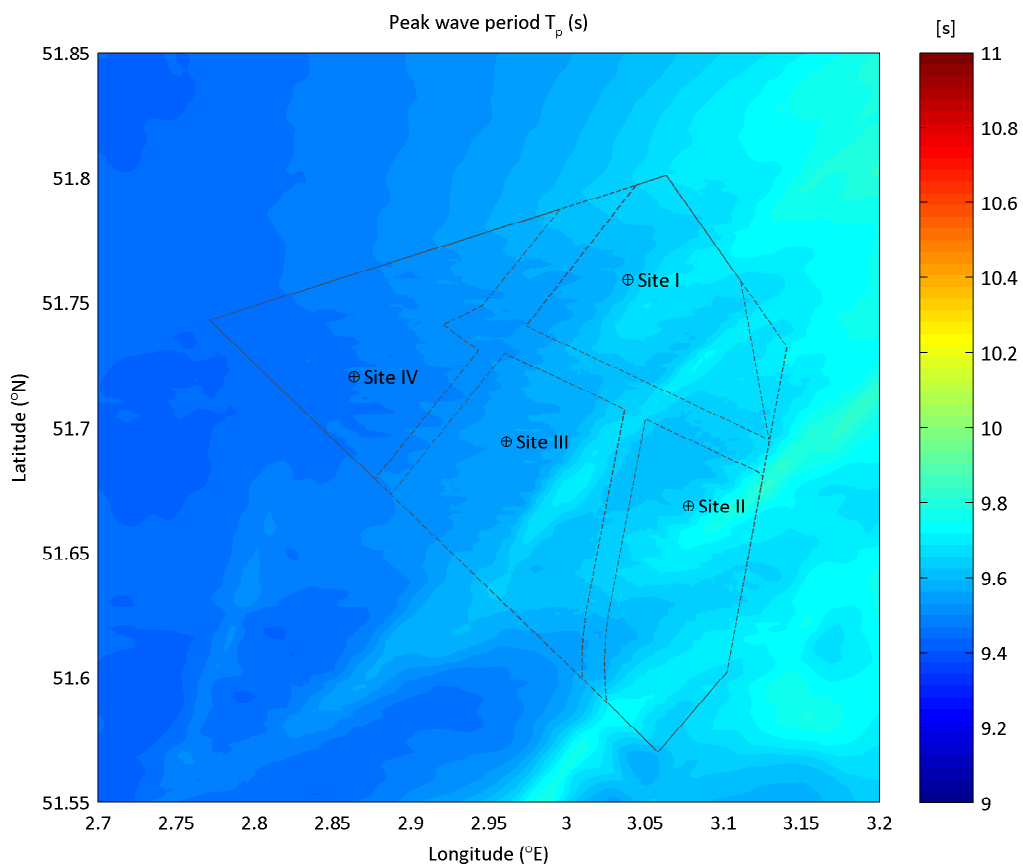
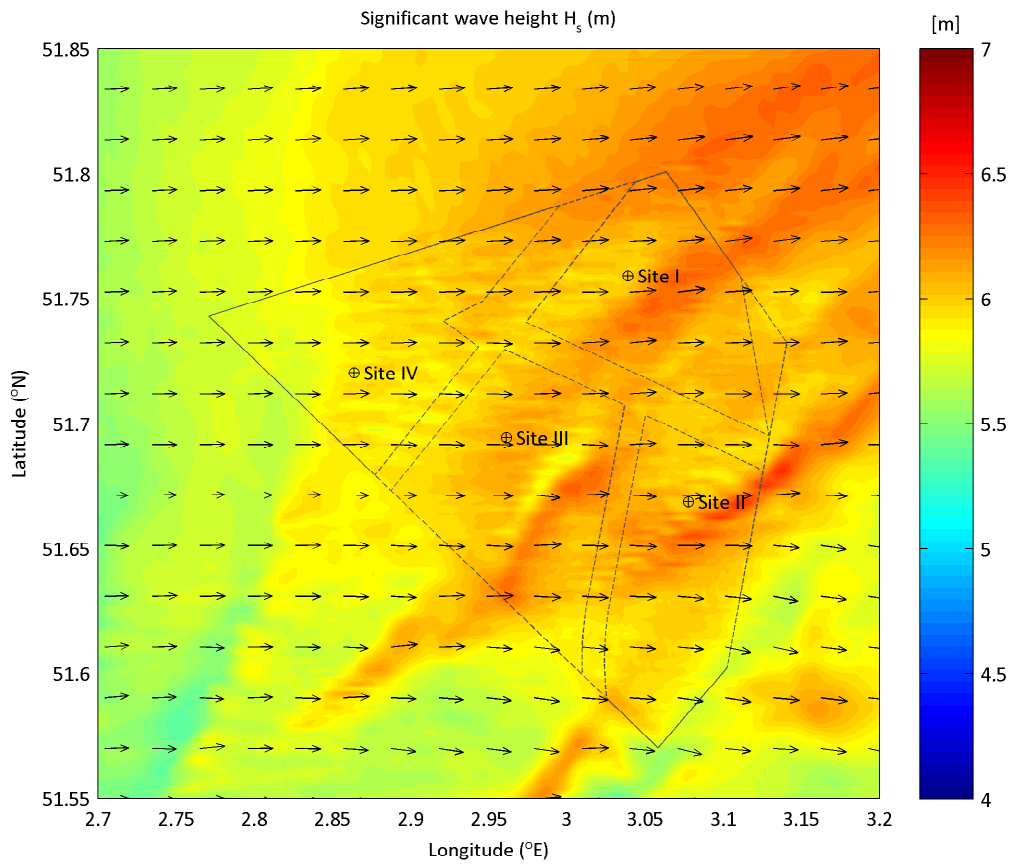
Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.056



Extreme wave condition from Sector255 (°N) - 285 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

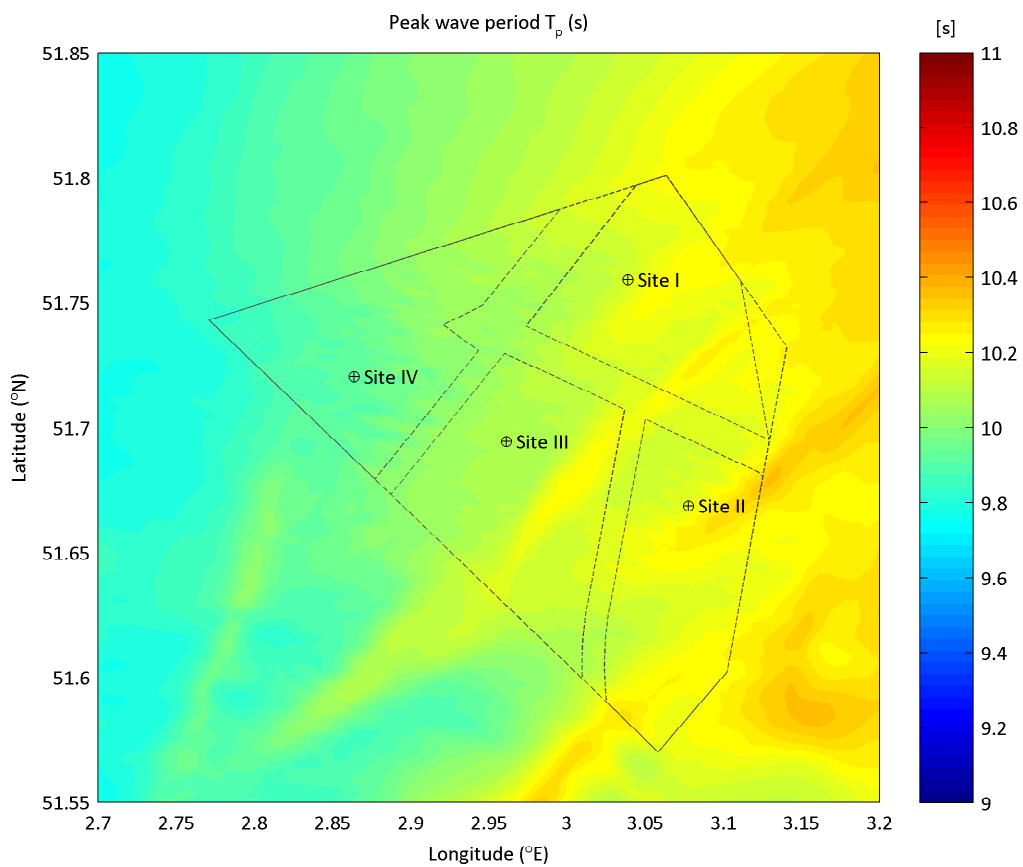
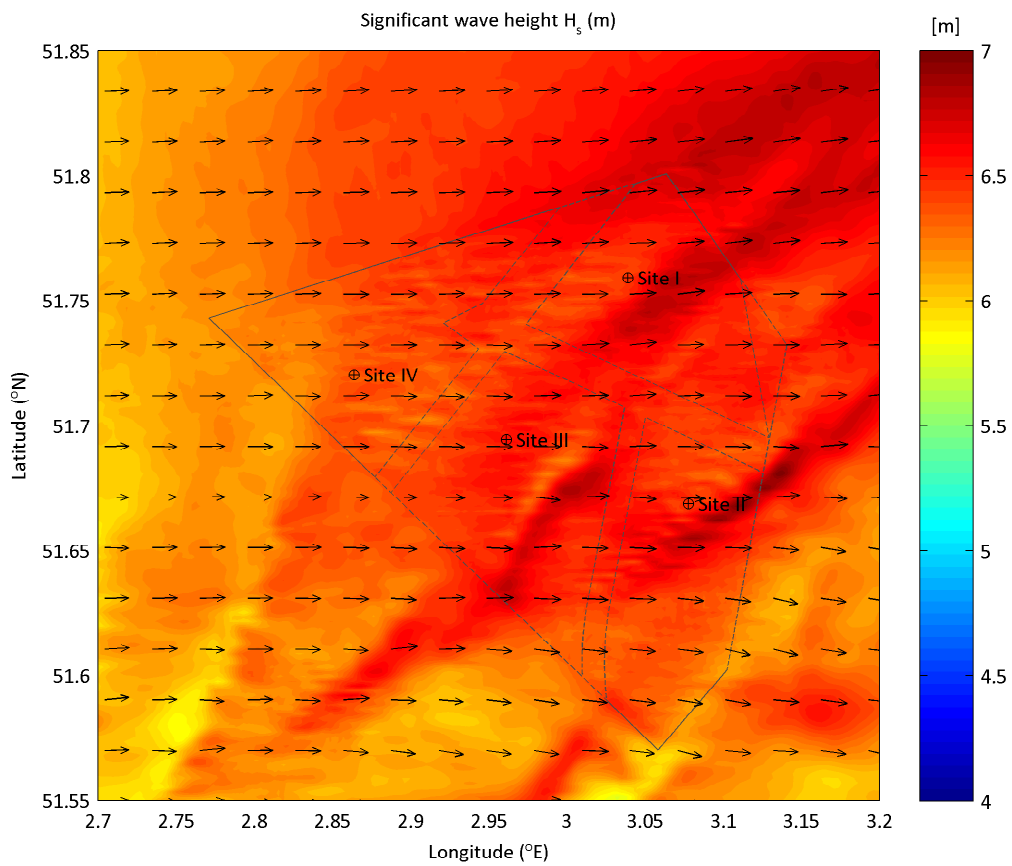
Nautical convention: coming from, clockwise from North

RP: 5yr

maximum still water level

Deltares

App. B.3.057



Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

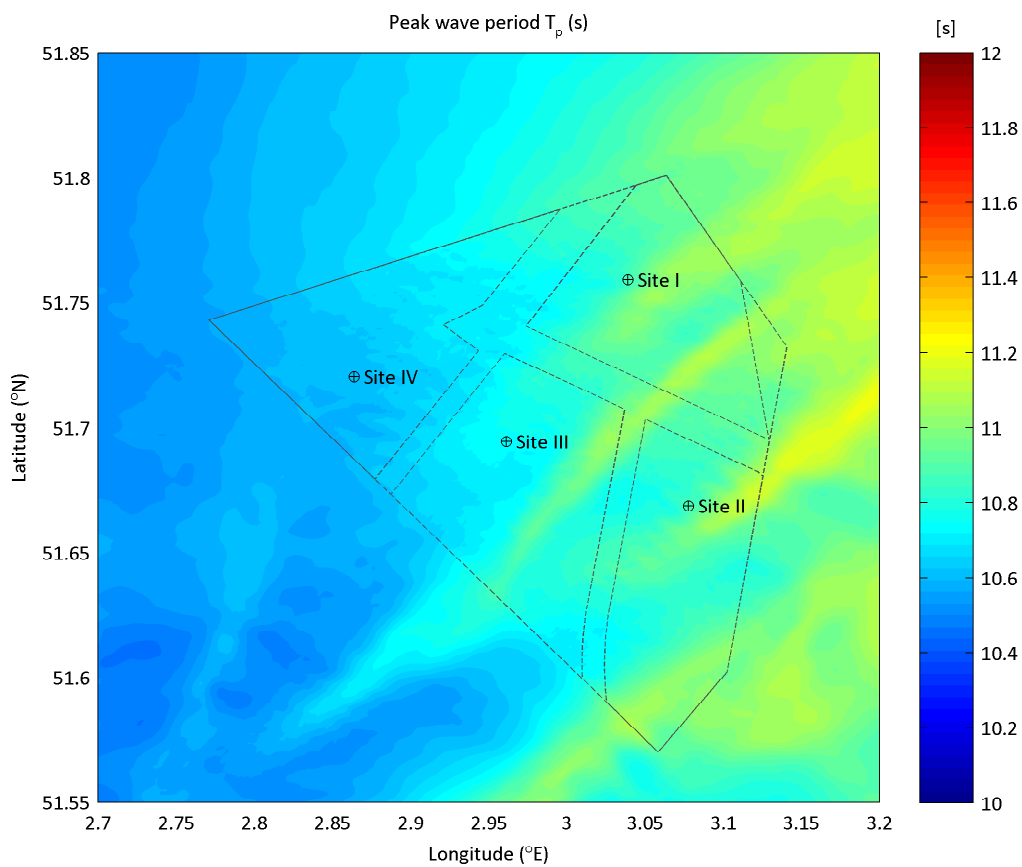
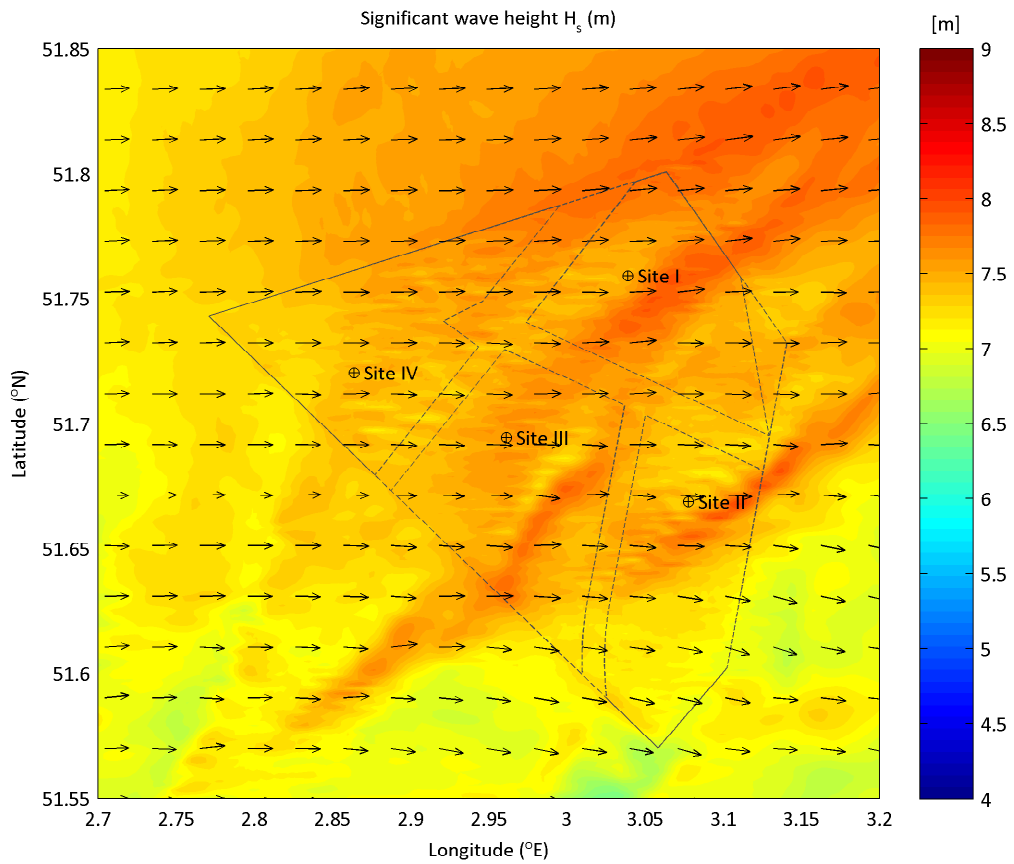
Nautical convention: coming from, clockwise from North

RP: 10yr

maximum still water level

Deltares

App. B.3.058



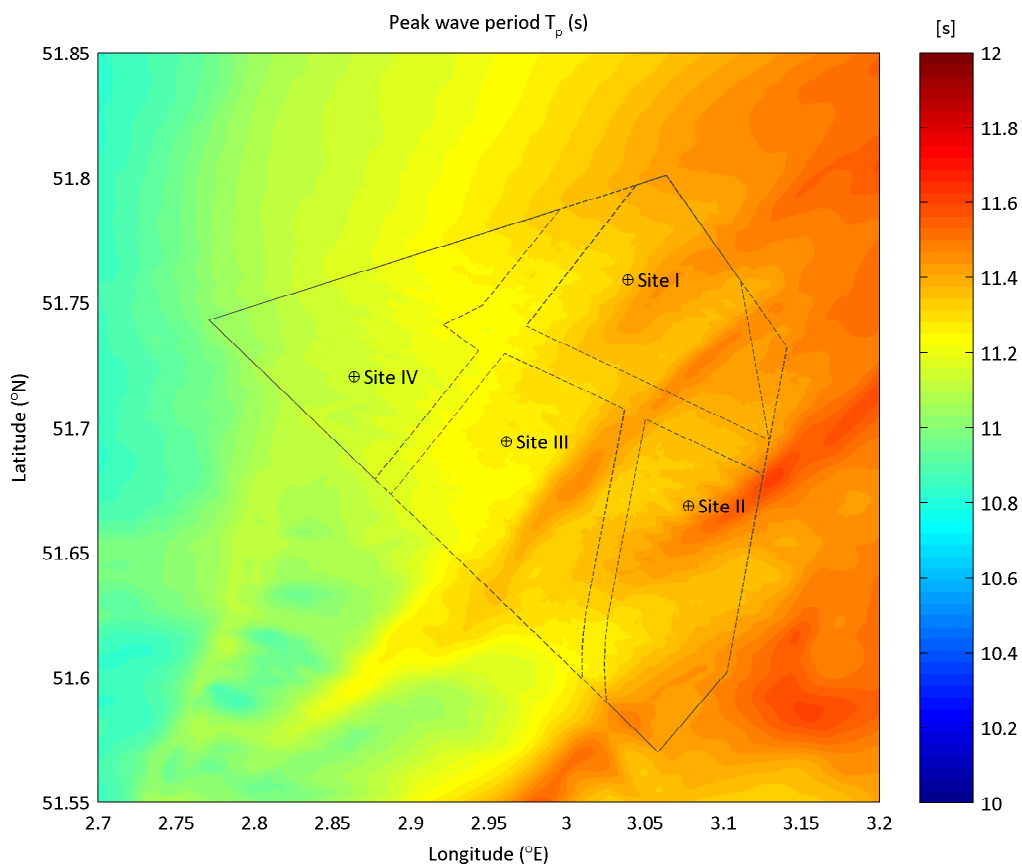
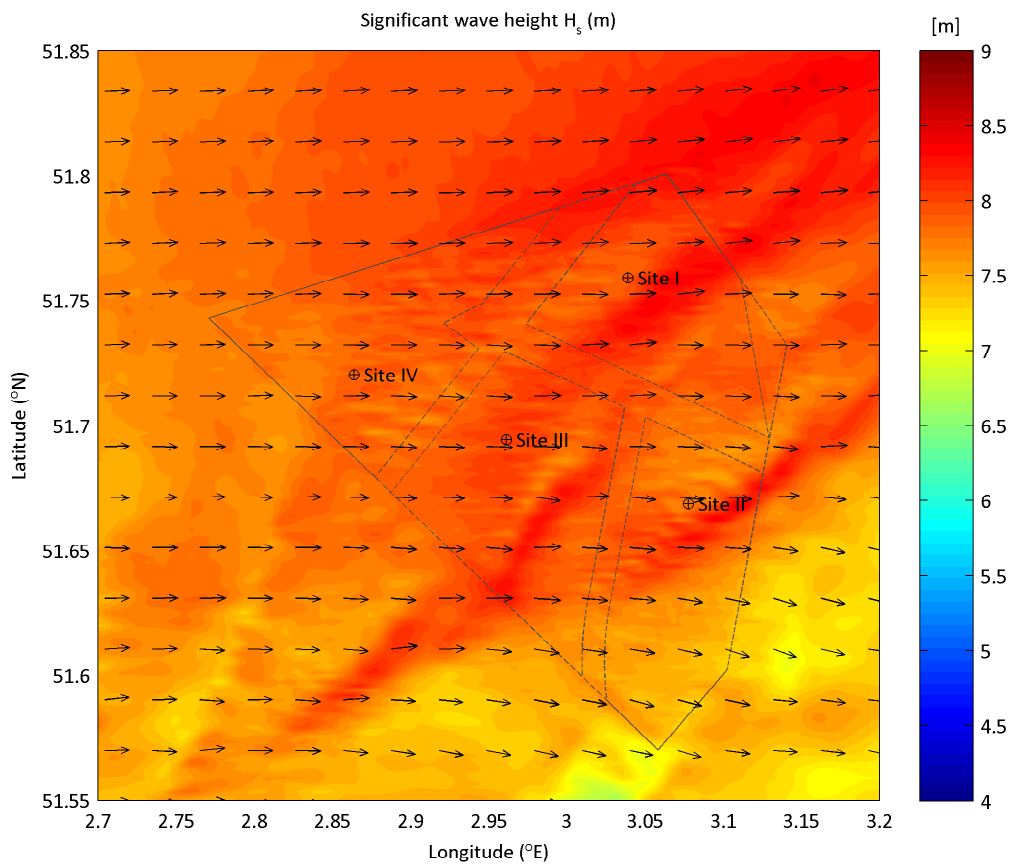
Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

maximum still water level

App. B.3.059



Extreme wave condition from Sector255 (°N) - 285 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

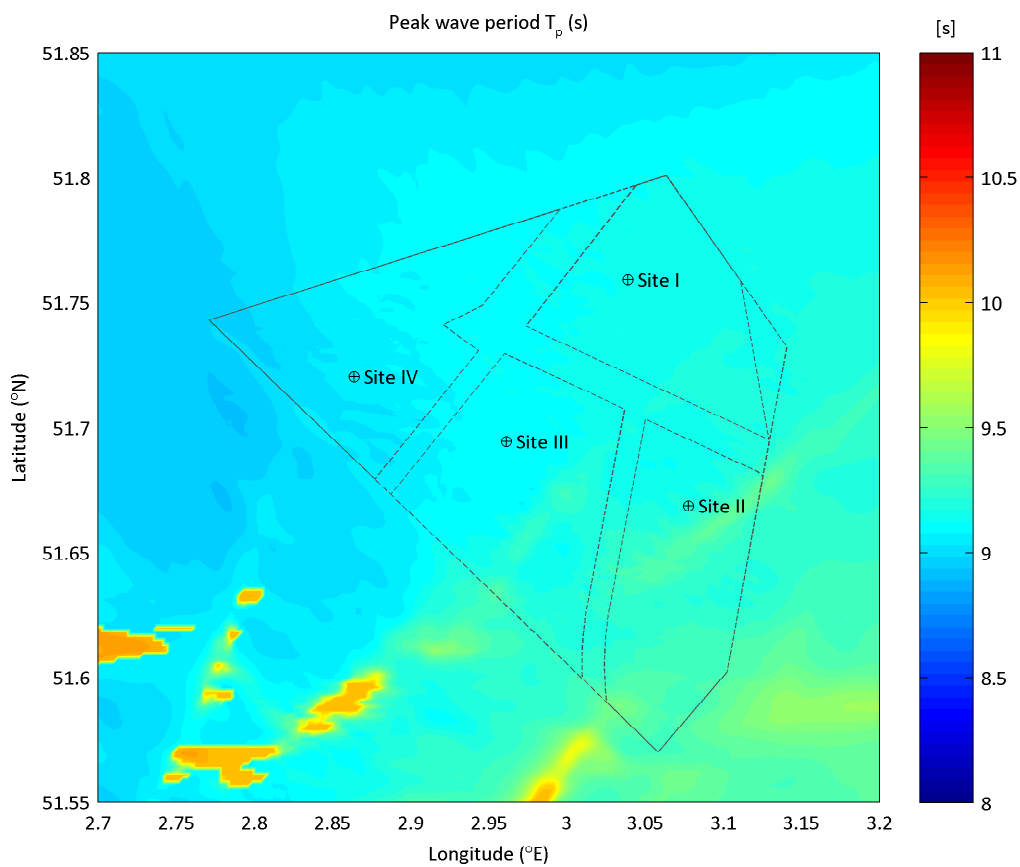
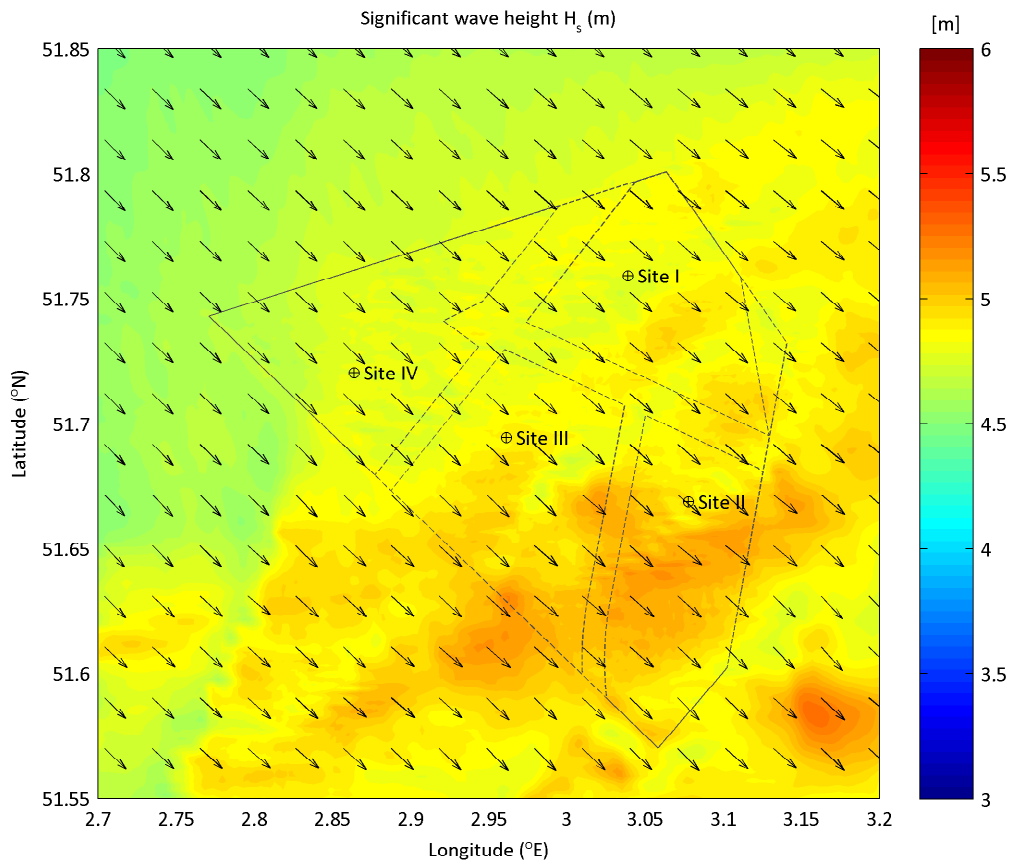
Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.060



Extreme wave condition from Sector285 (°N) - 315 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

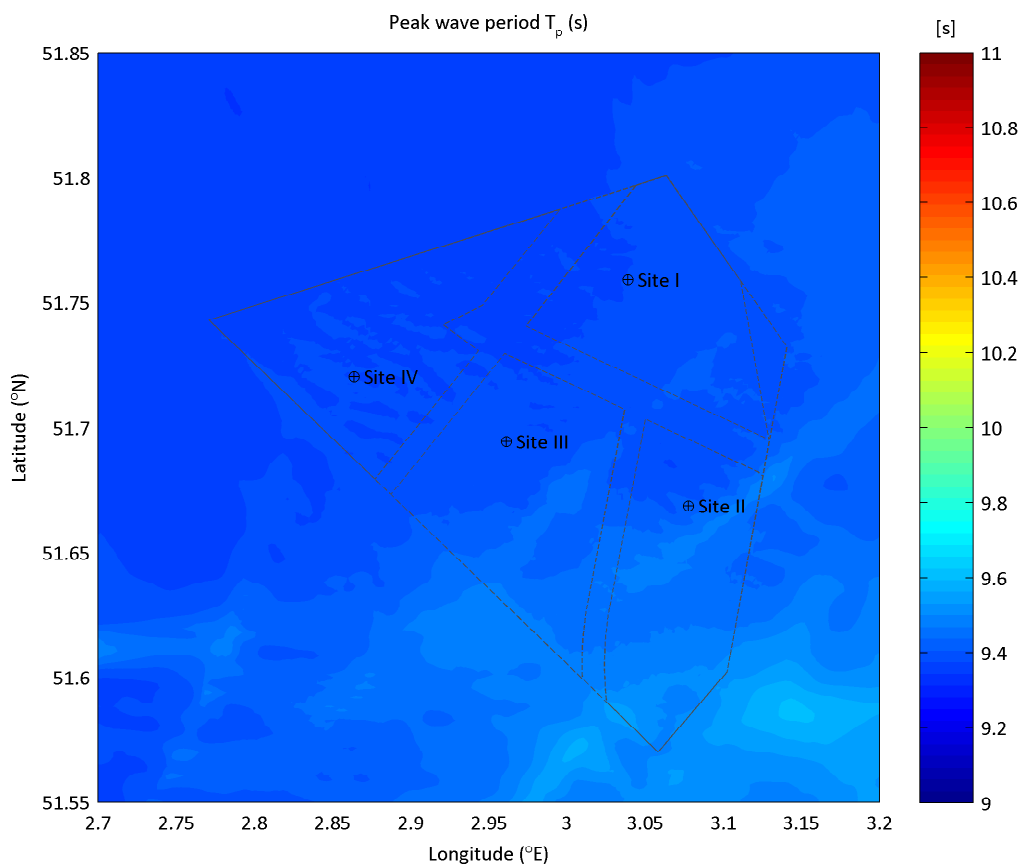
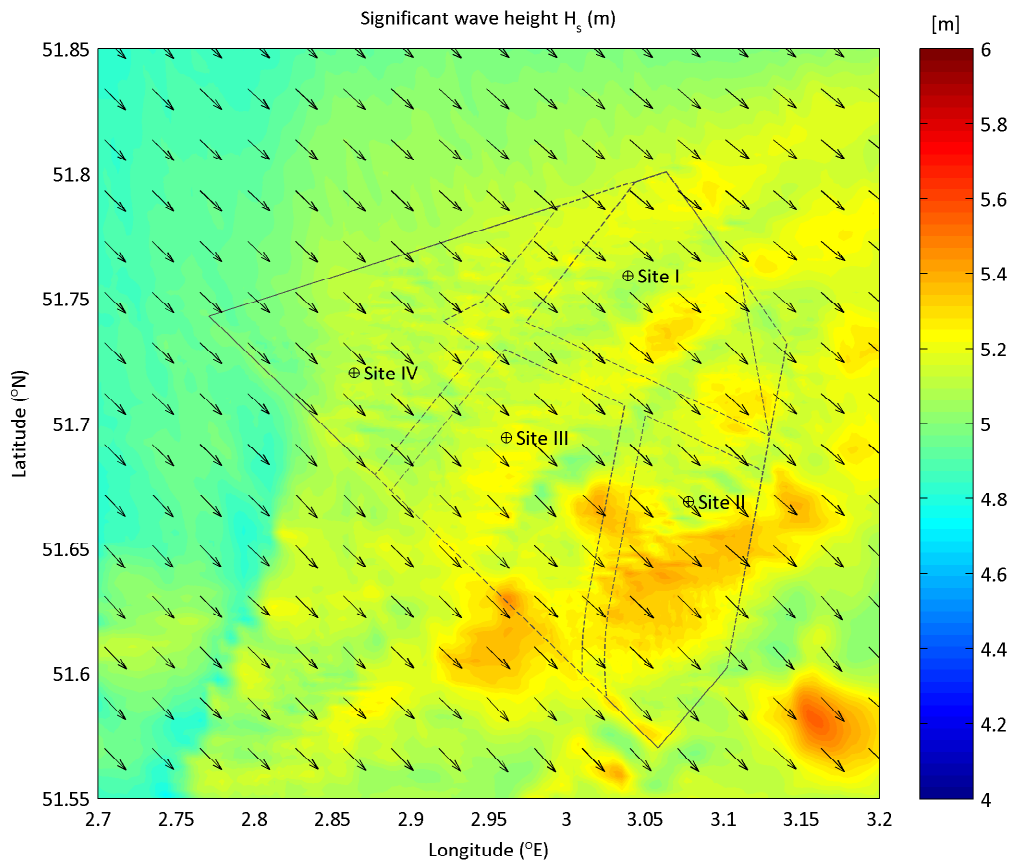
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.061



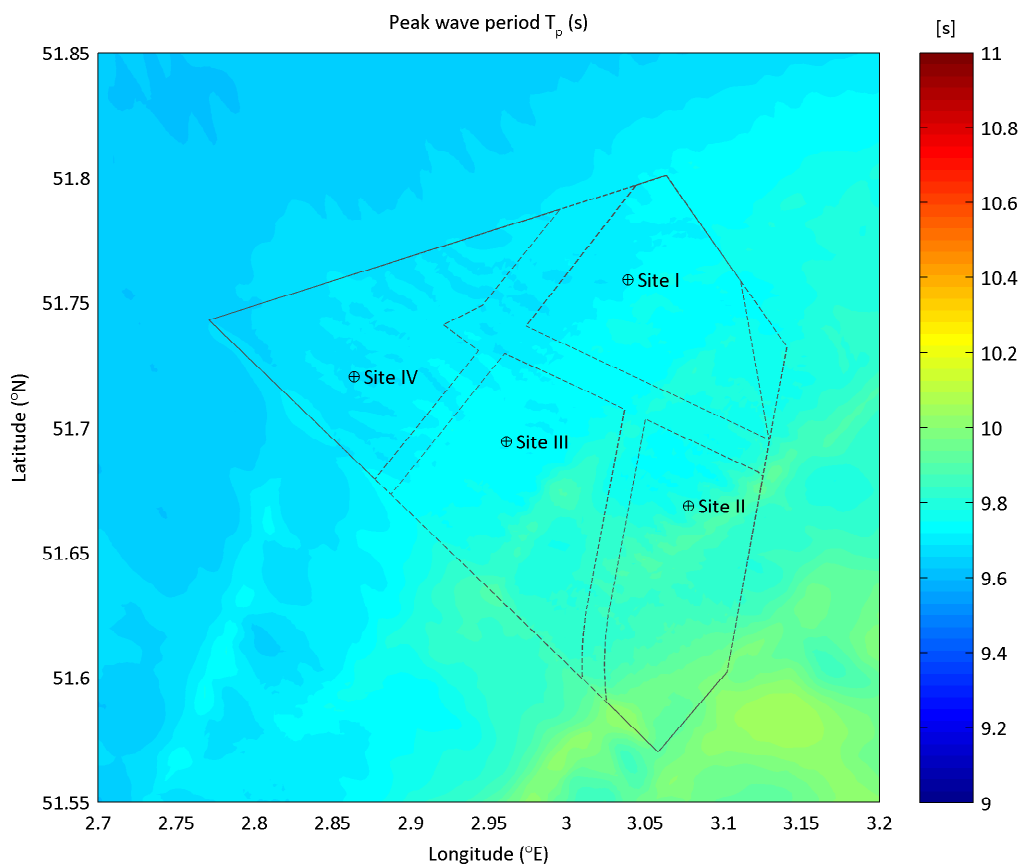
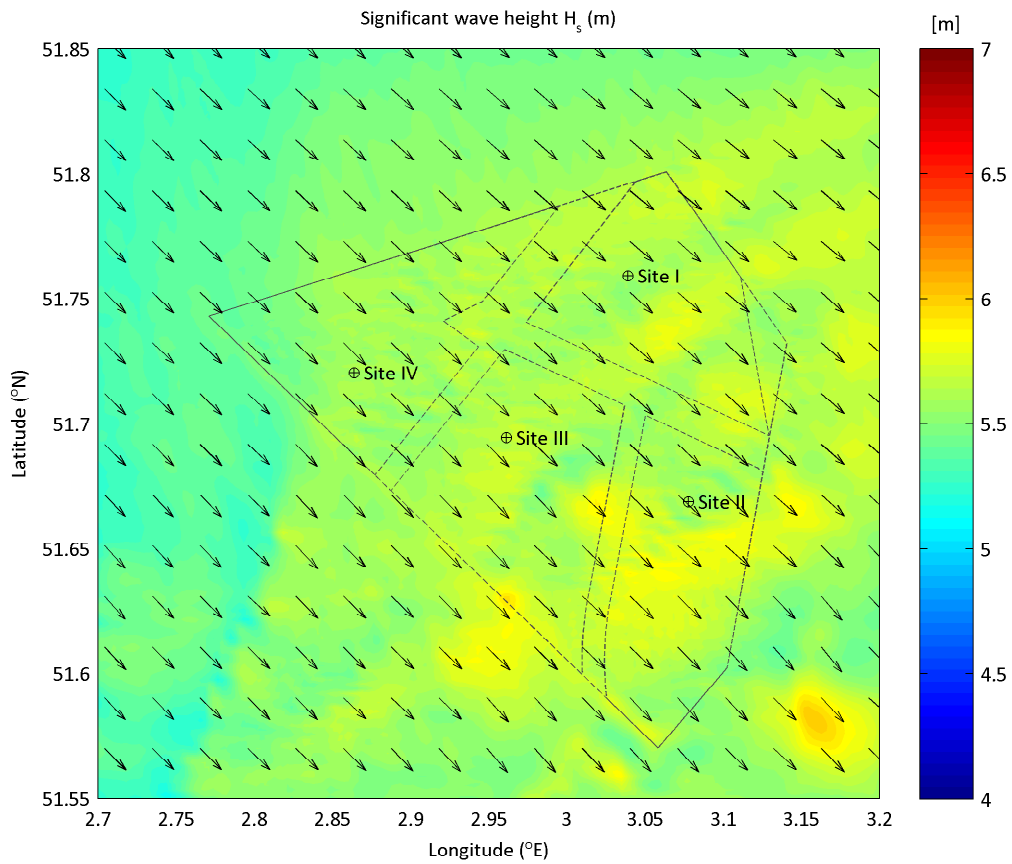
Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

maximum still water level

App. B.3.062



Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

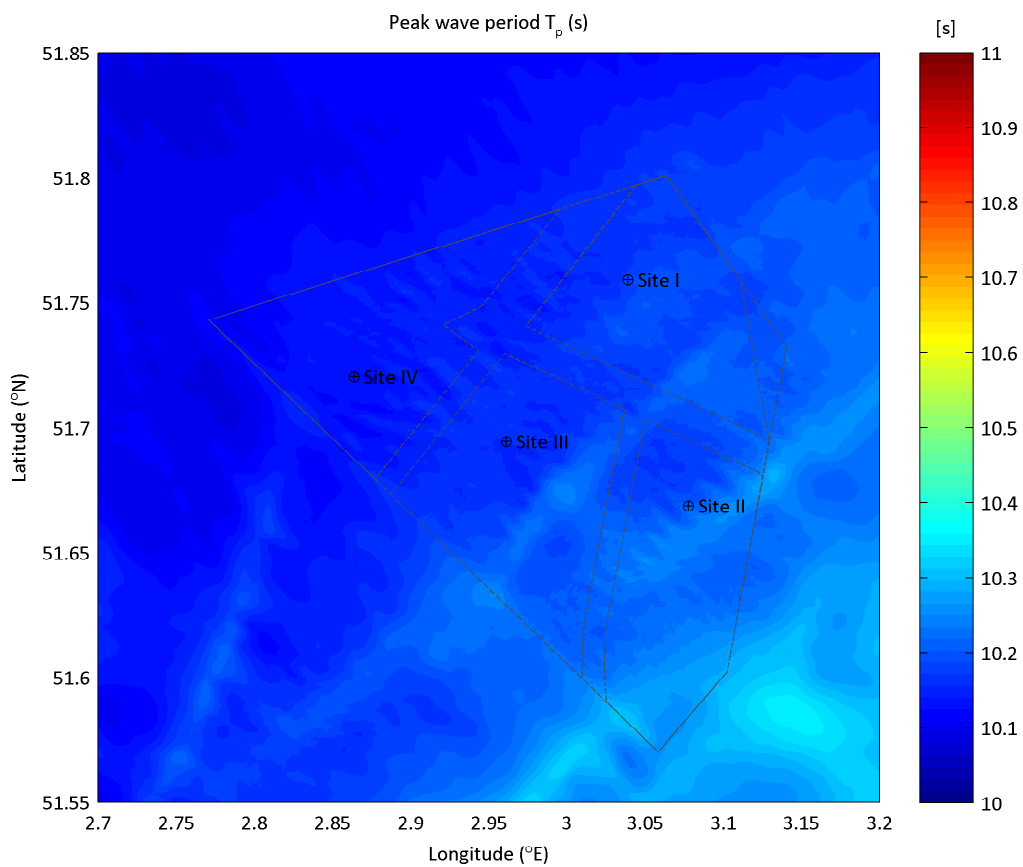
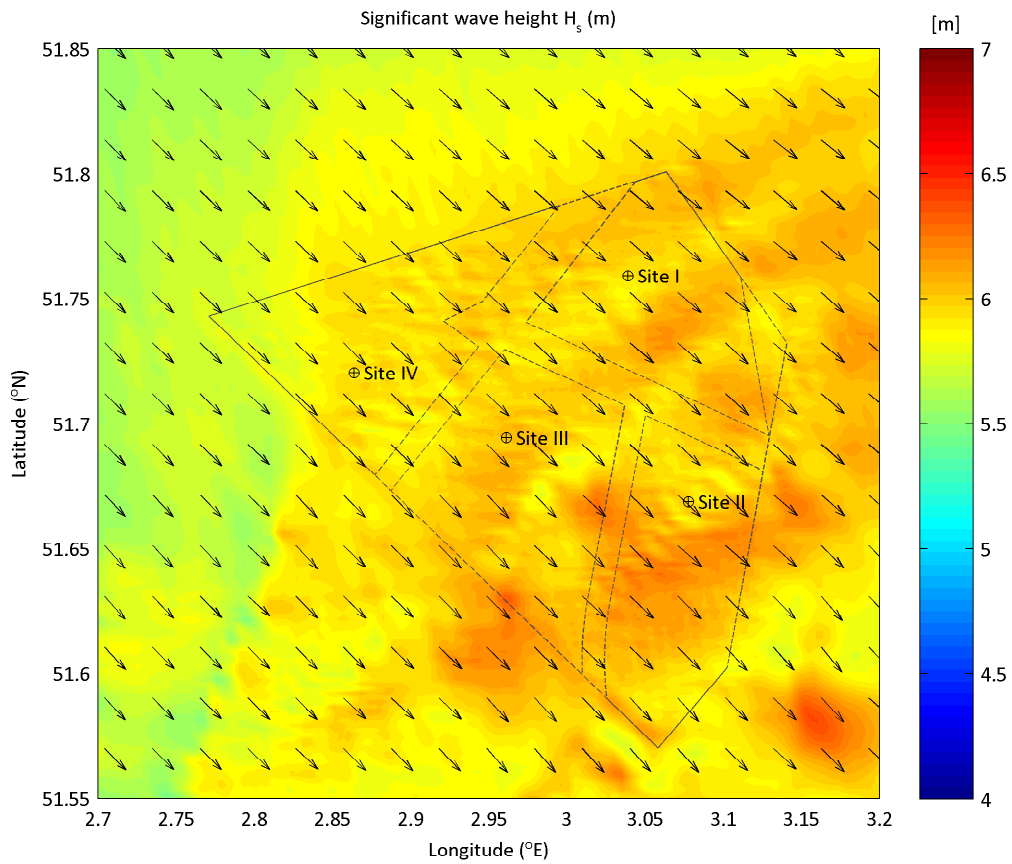
Nautical convention: coming from, clockwise from North

RP: 5yr

maximum still water level

Deltares

App. B.3.063



Extreme wave condition from Sector285 (°N) - 315 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

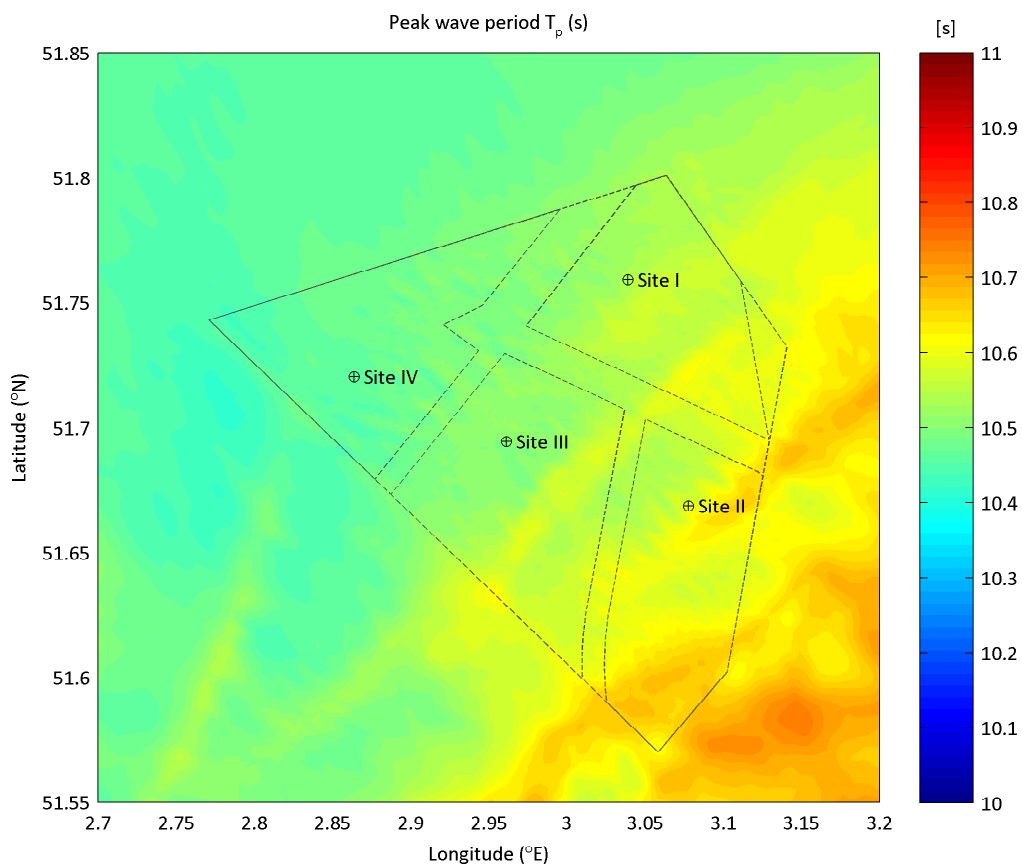
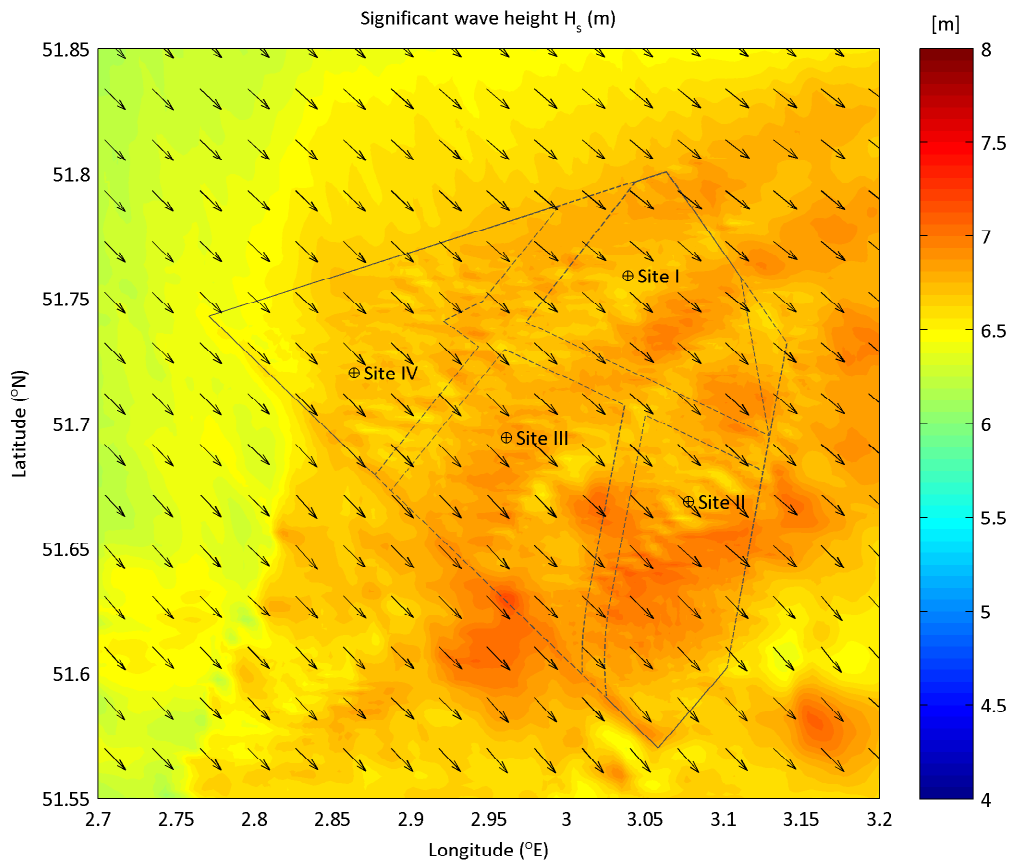
Nautical convention: coming from, clockwise from North

RP: 10yr

maximum still water level

Deltares

App. B.3.064



Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

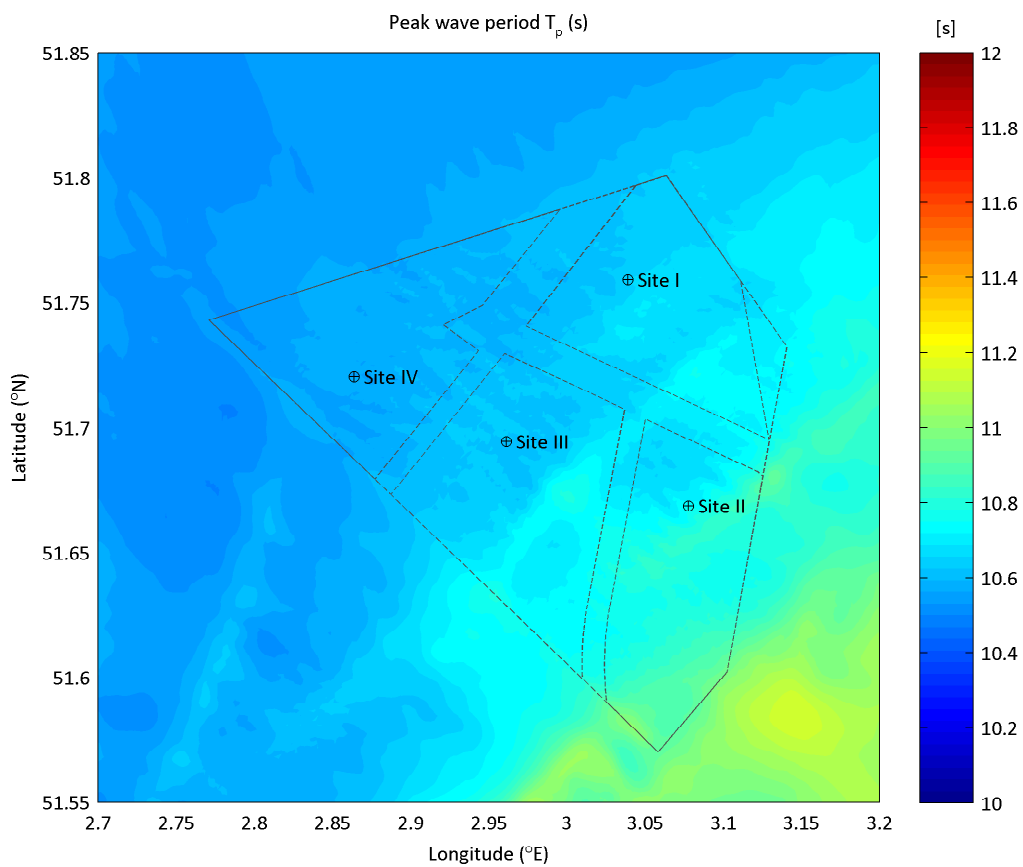
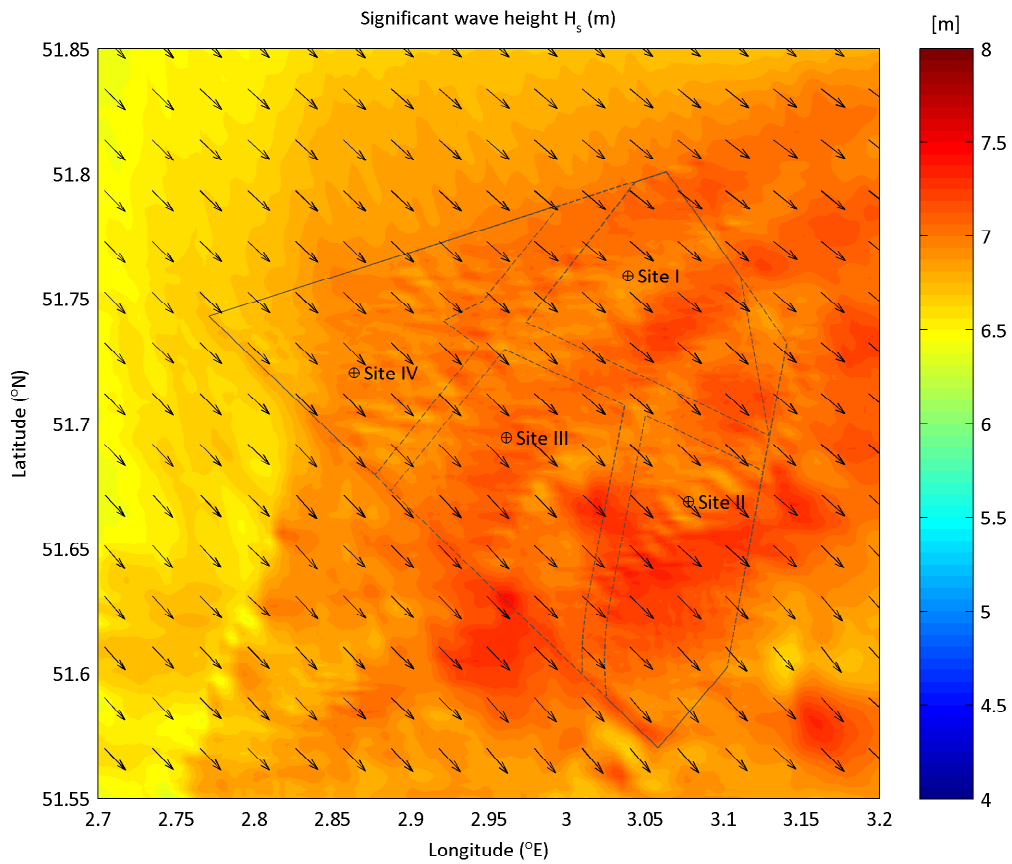
Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.065



Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

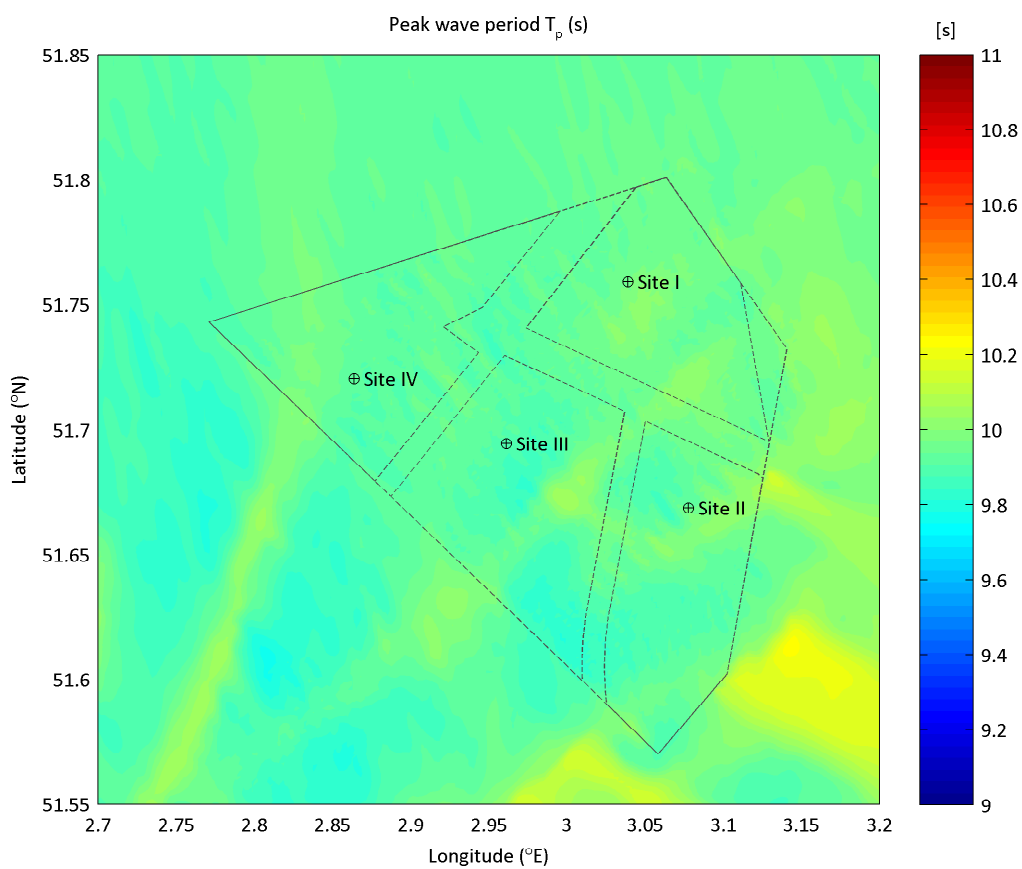
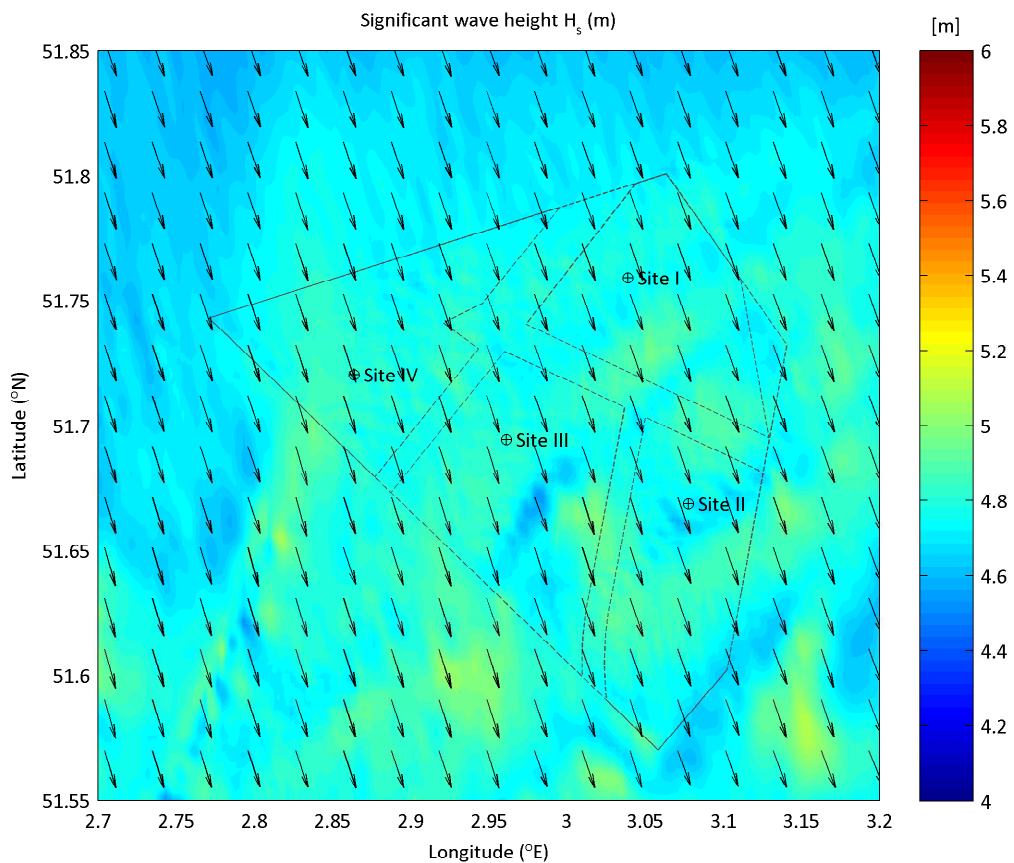
Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.066



Extreme wave condition from Sector315 (°N) - 345 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

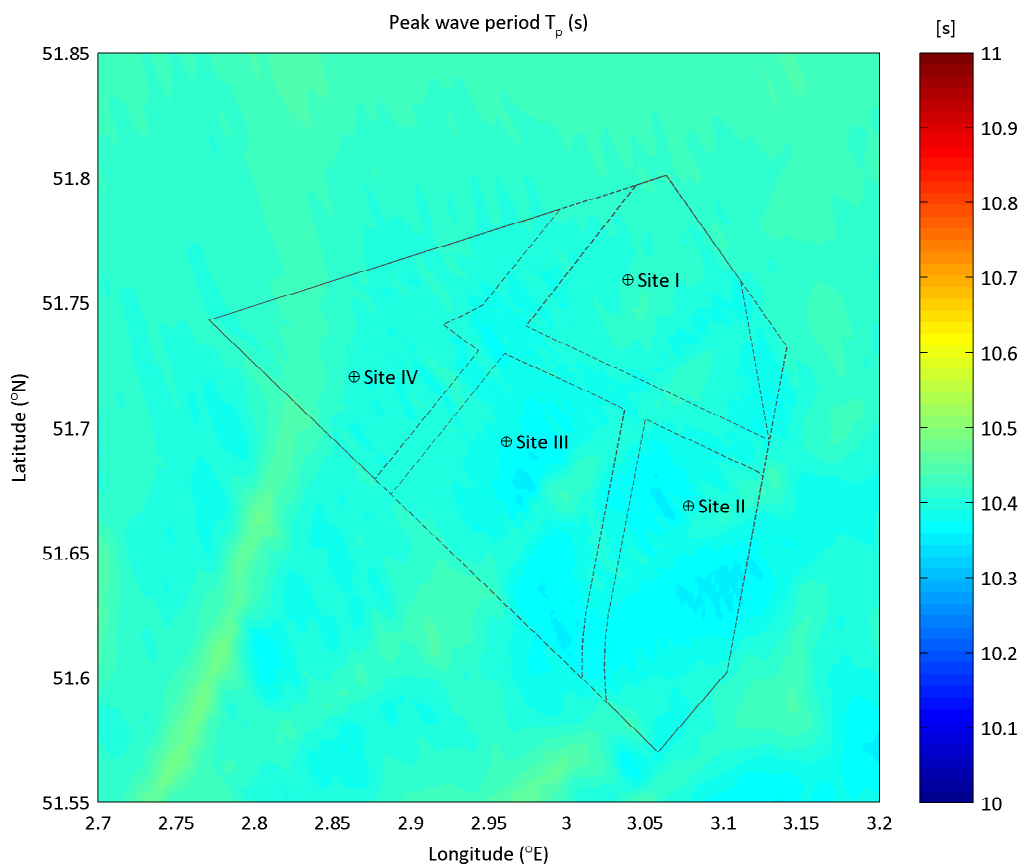
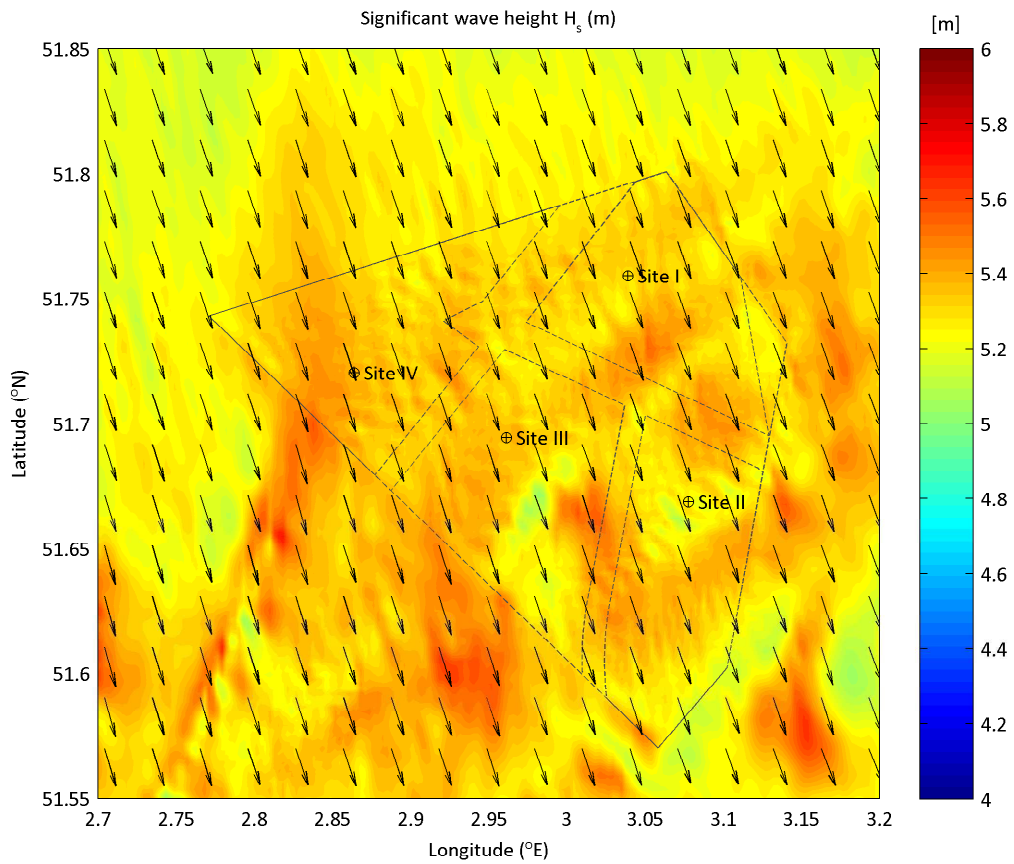
Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.067



Extreme wave condition from Sector315 ($^{\circ}$ N) - 345 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

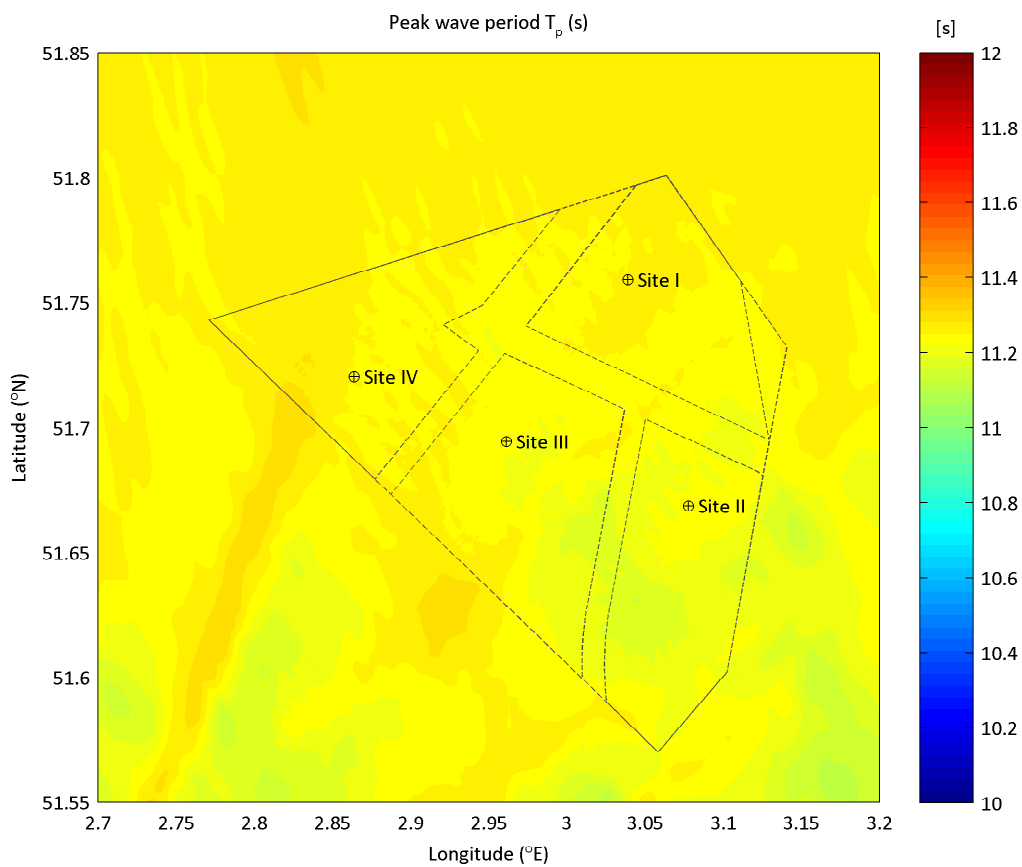
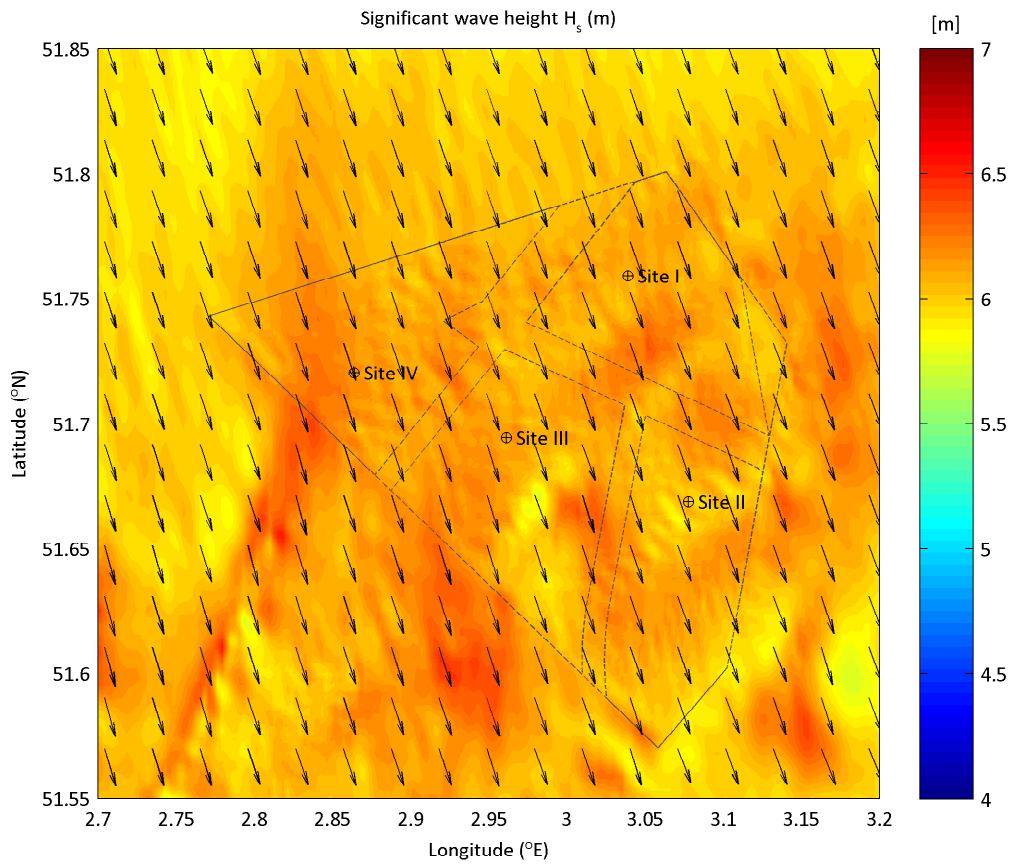
Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.068



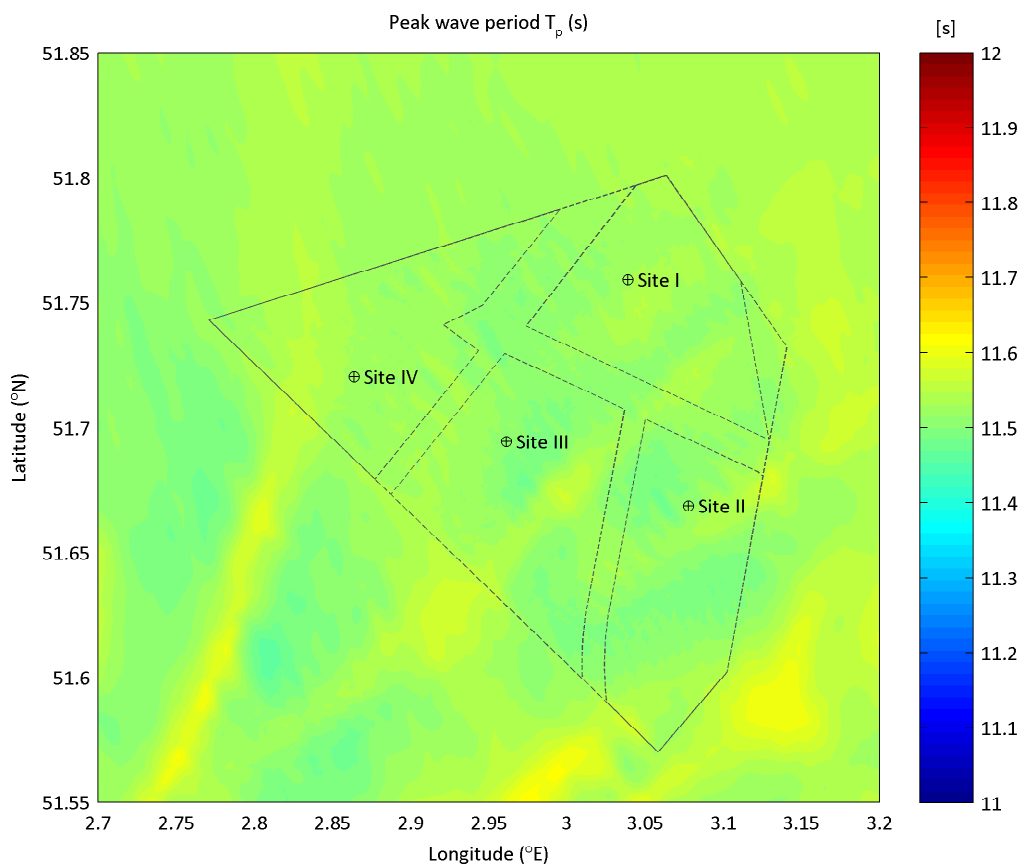
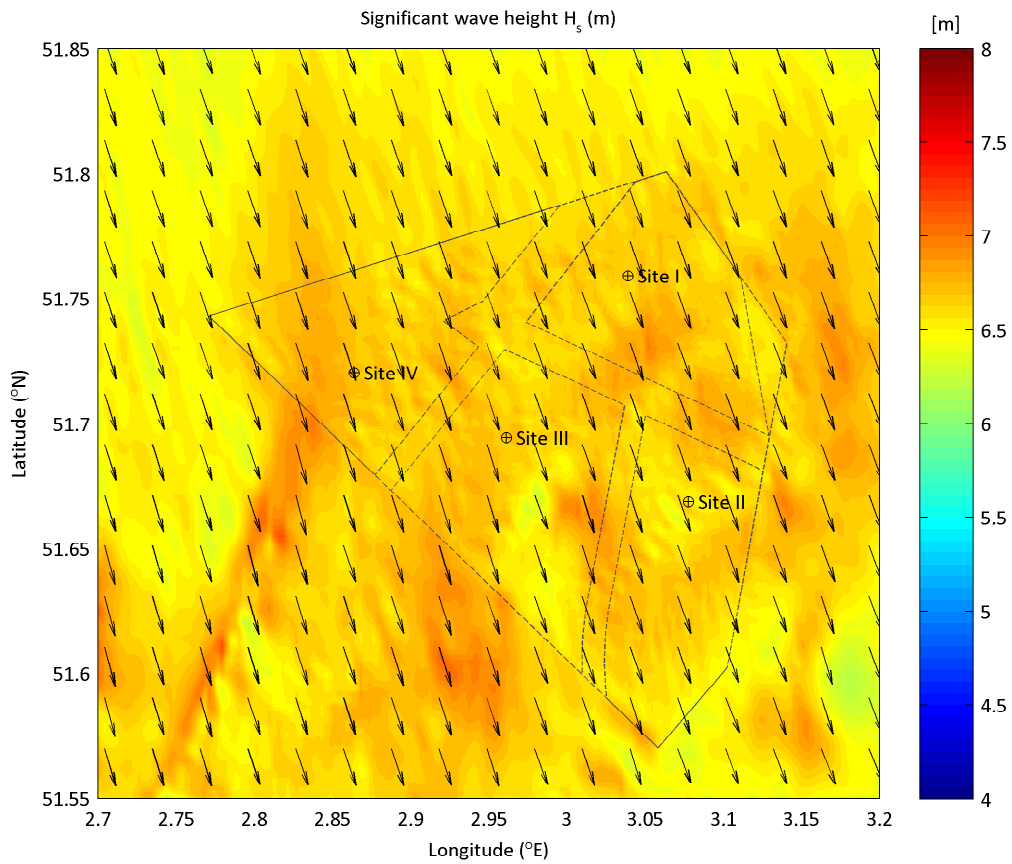
Extreme wave condition from Sector315 (°N) - 345 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 5yr

maximum still water level

Deltares

App. B.3.069



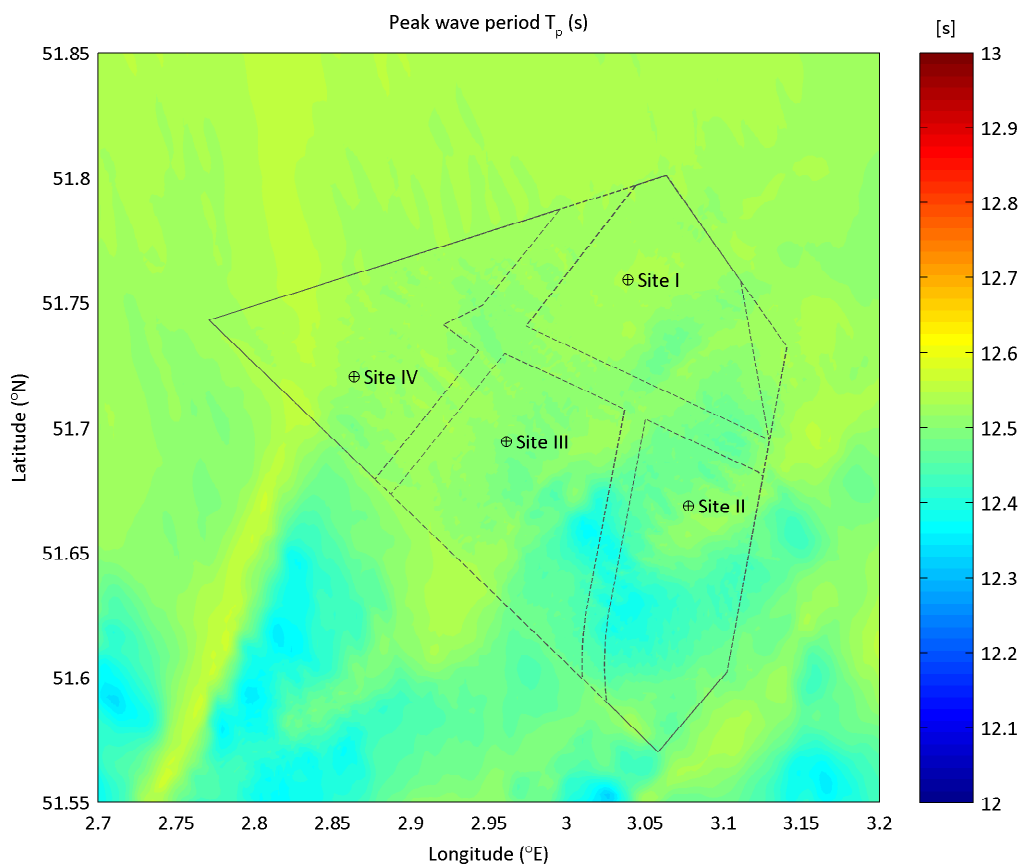
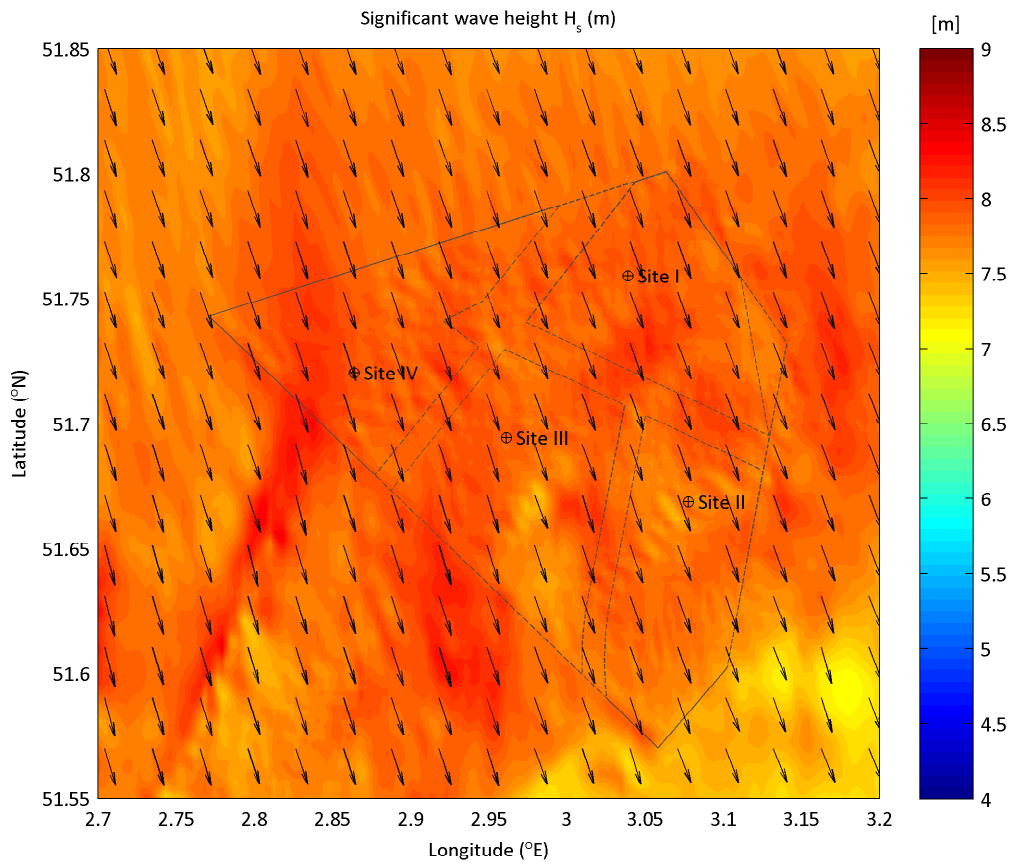
Extreme wave condition from Sector315 (°N) - 345 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 10yr

maximum still water level

Deltares

App. B.3.070



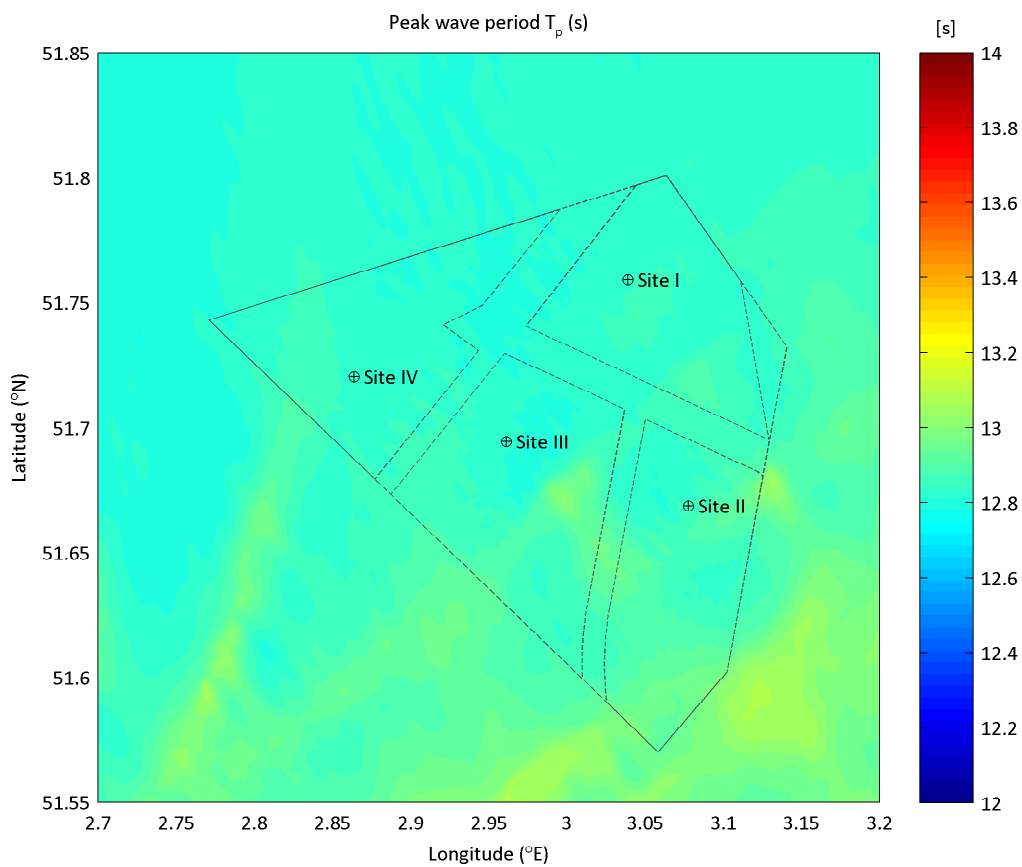
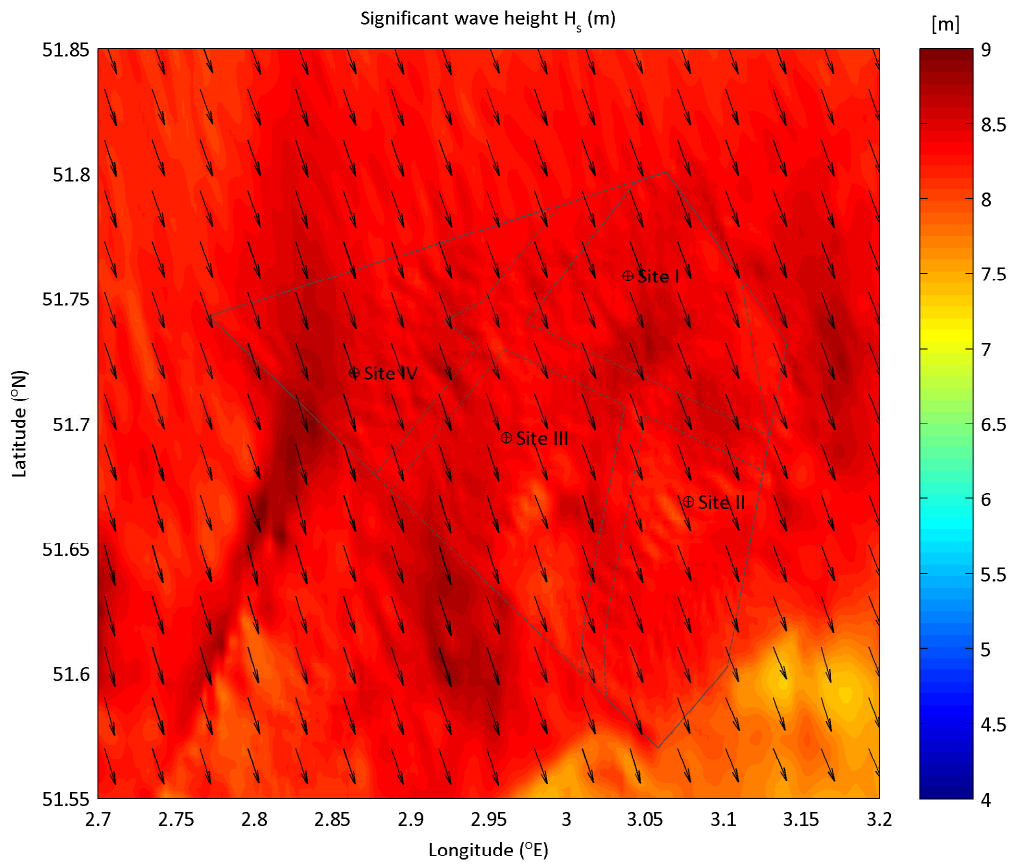
Extreme wave condition from Sector315 (°N) - 345 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.071



Extreme wave condition from Sector315 ($^{\circ}$ N) - 345 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

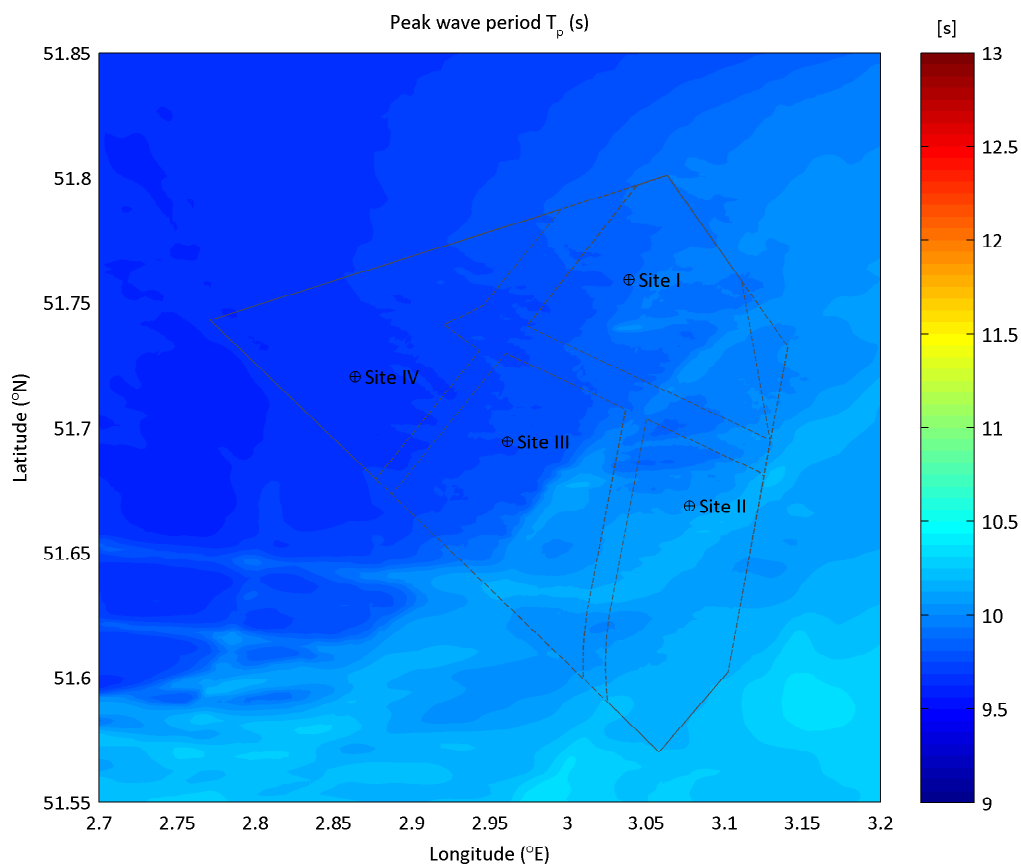
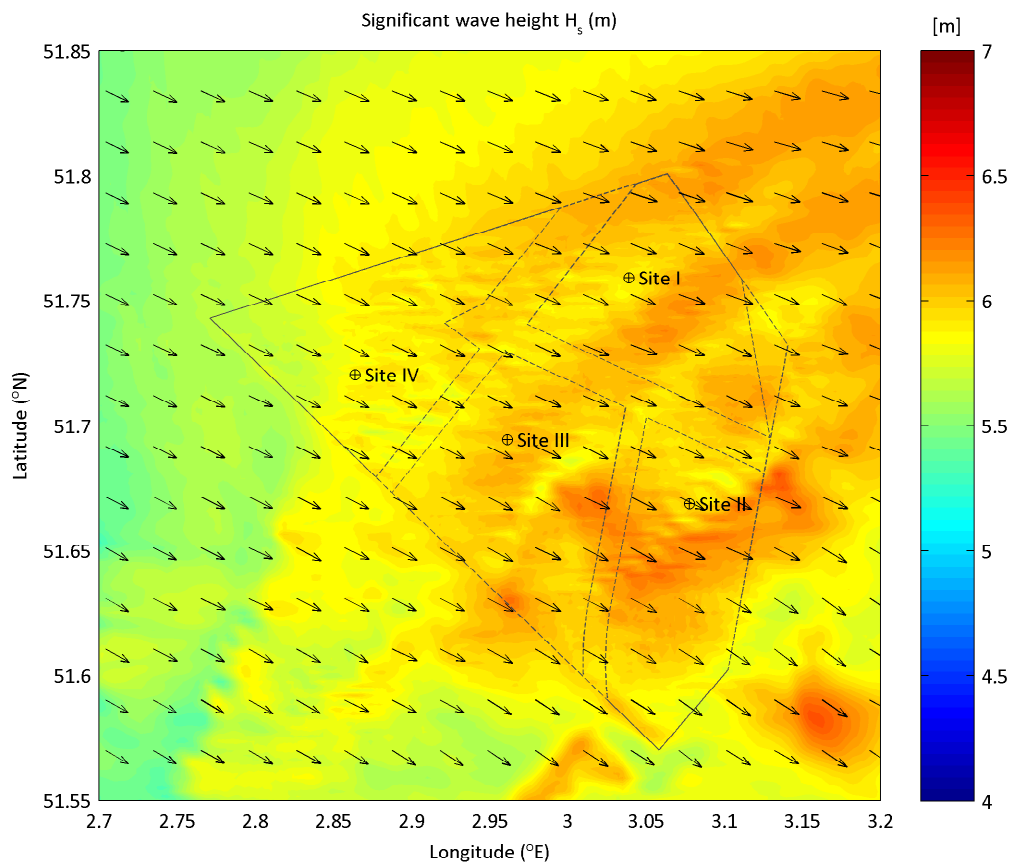
Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.072



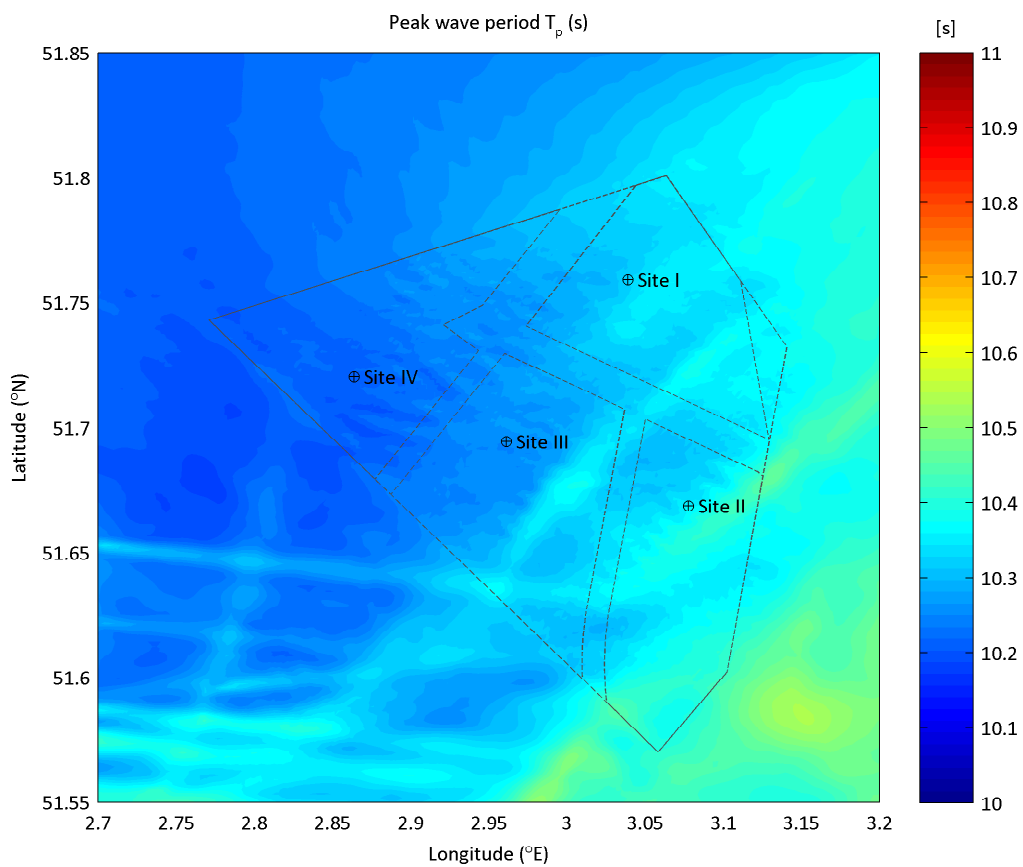
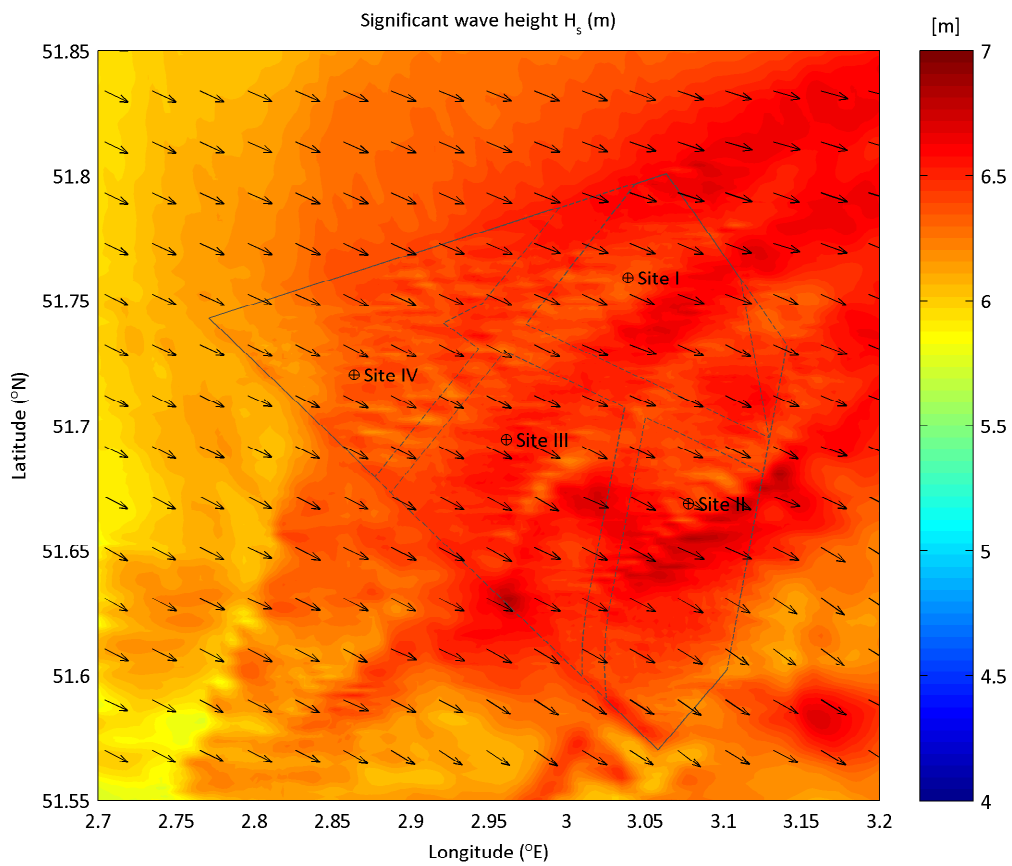
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 1yr

maximum still water level

Deltares

App. B.3.073



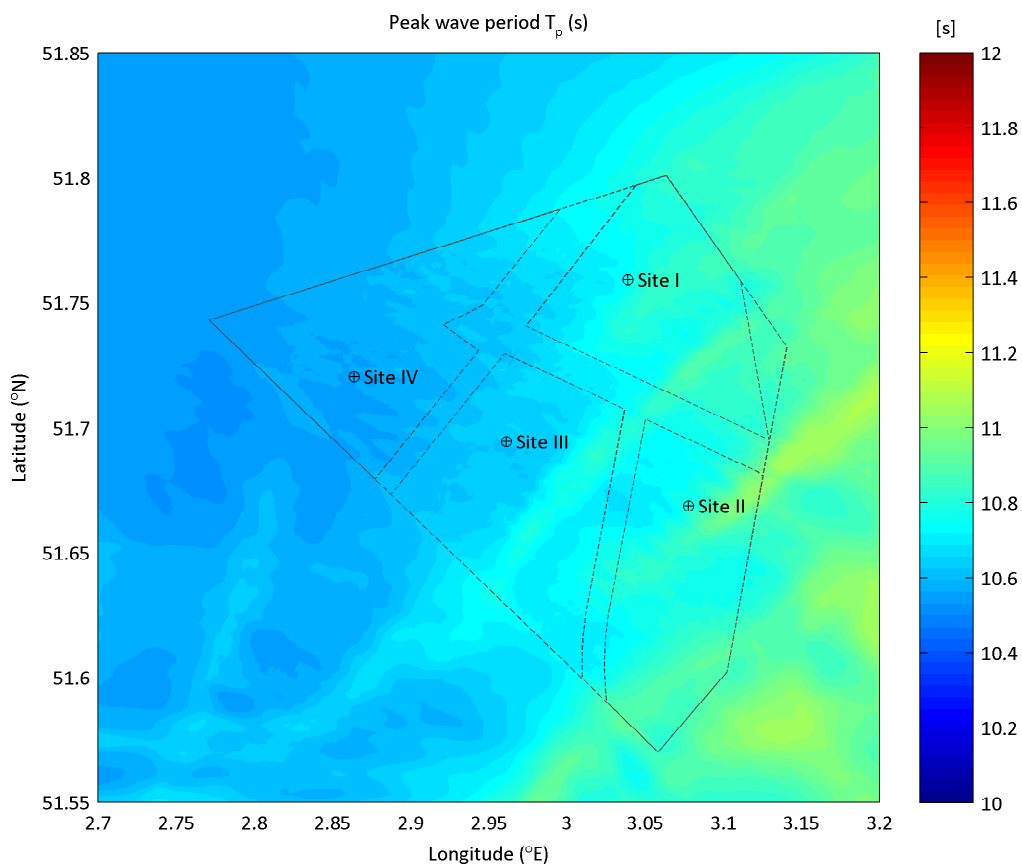
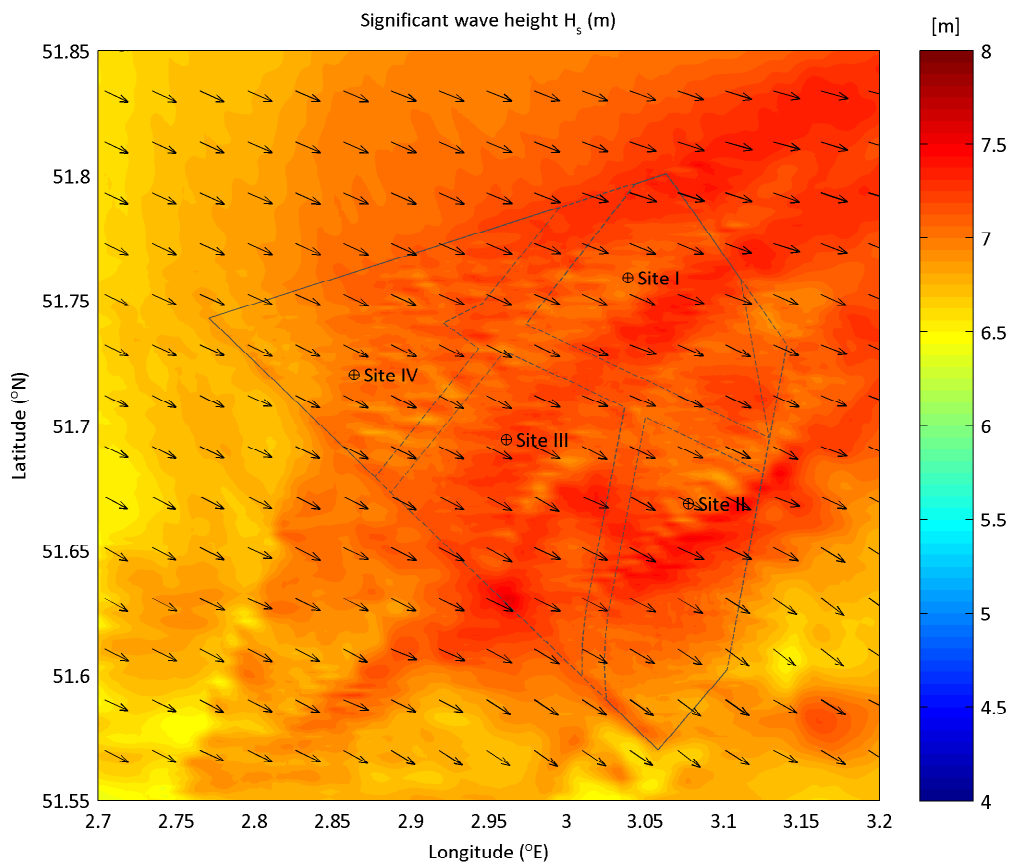
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 2yr

maximum still water level

Deltares

App. B.3.074



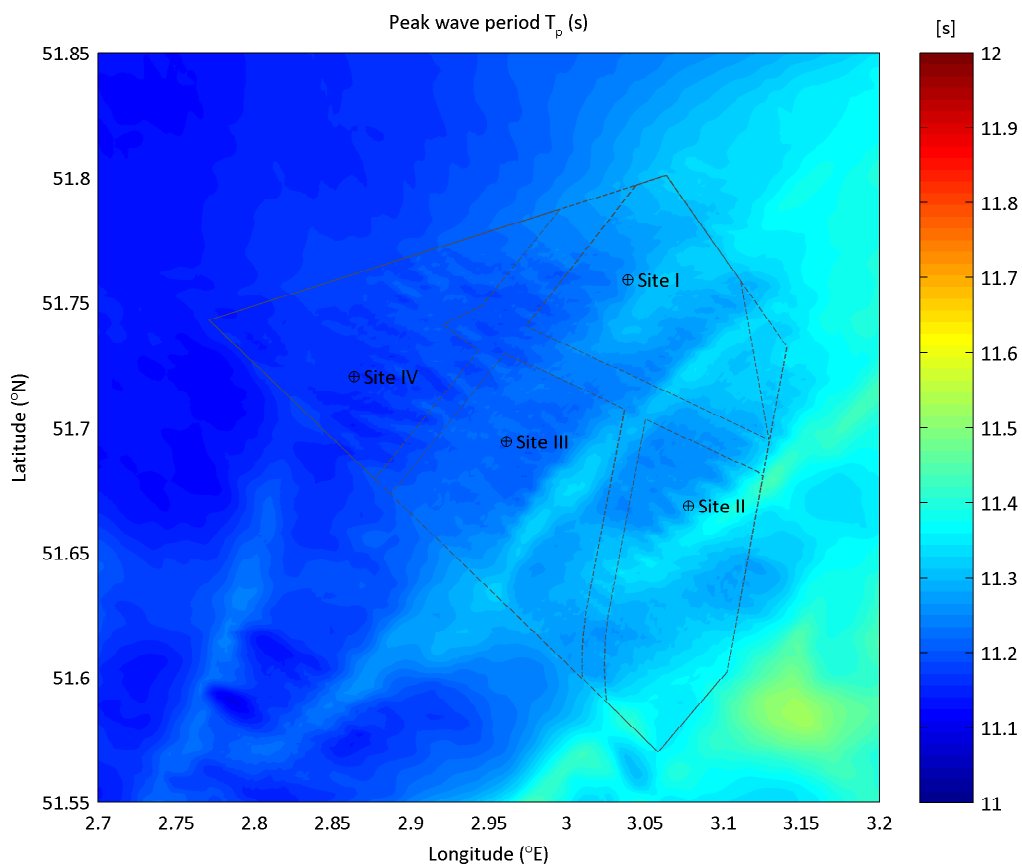
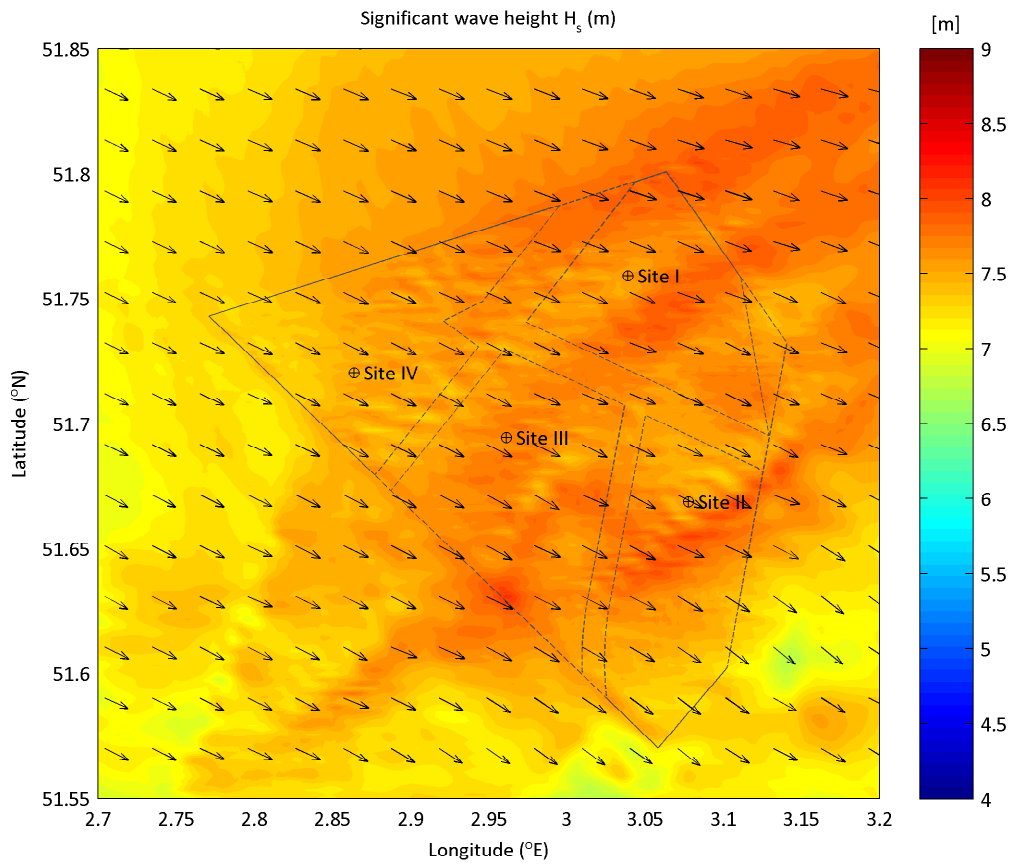
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 5yr

maximum still water level

Deltares

App. B.3.075



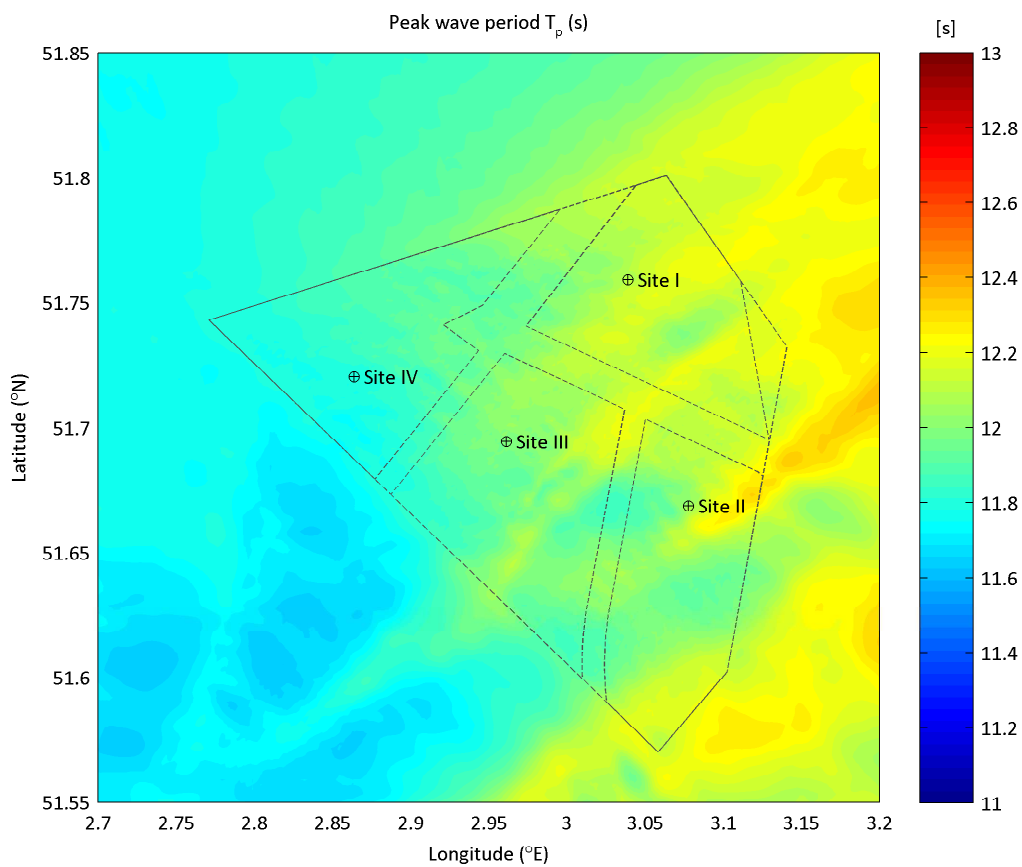
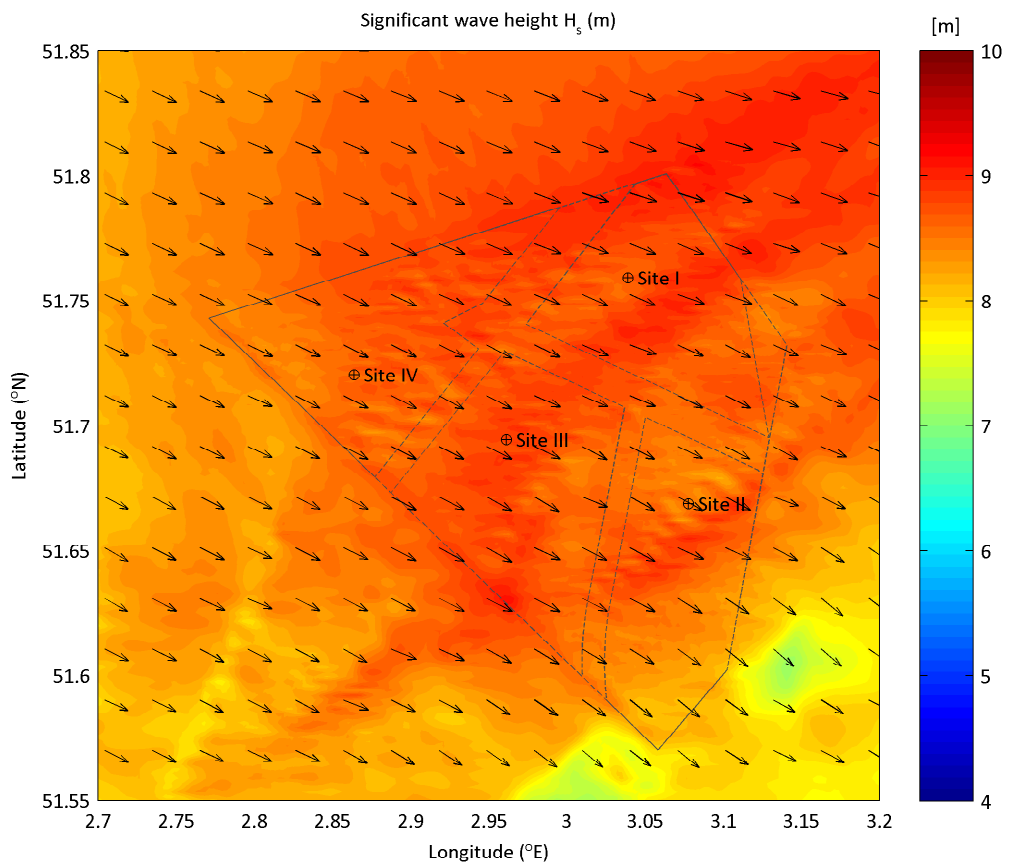
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 10yr

maximum still water level

Deltares

App. B.3.076



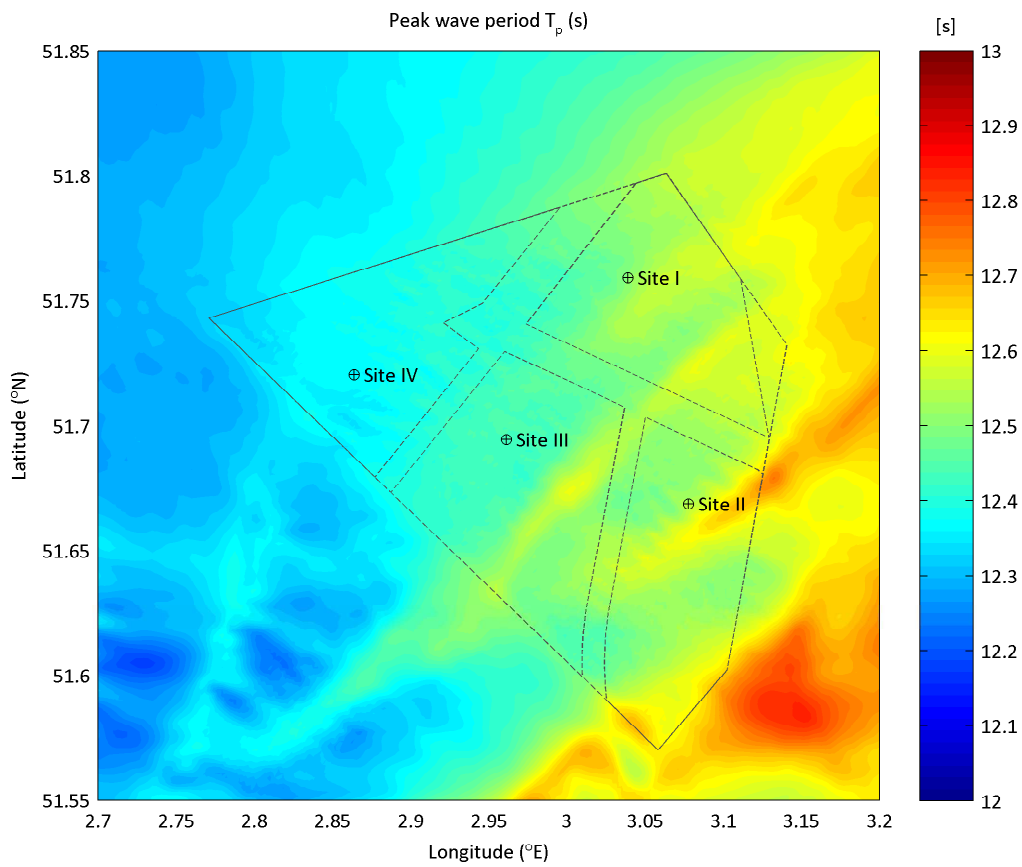
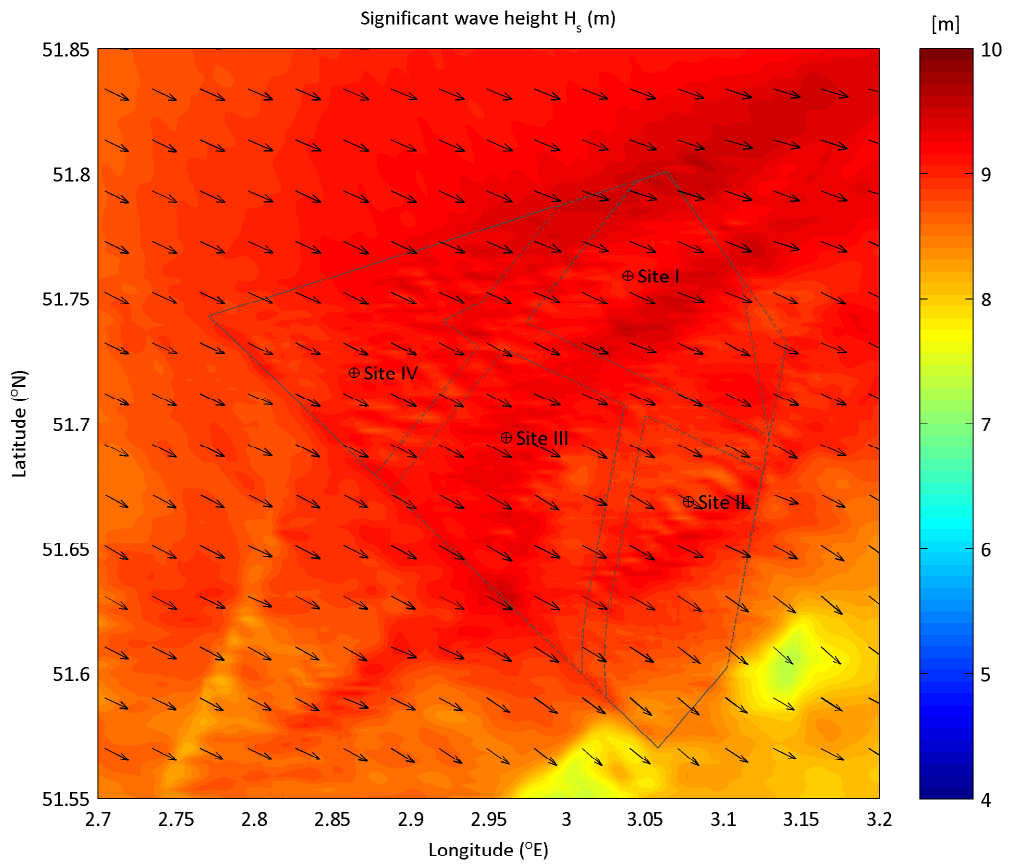
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 50yr

maximum still water level

Deltares

App. B.3.077



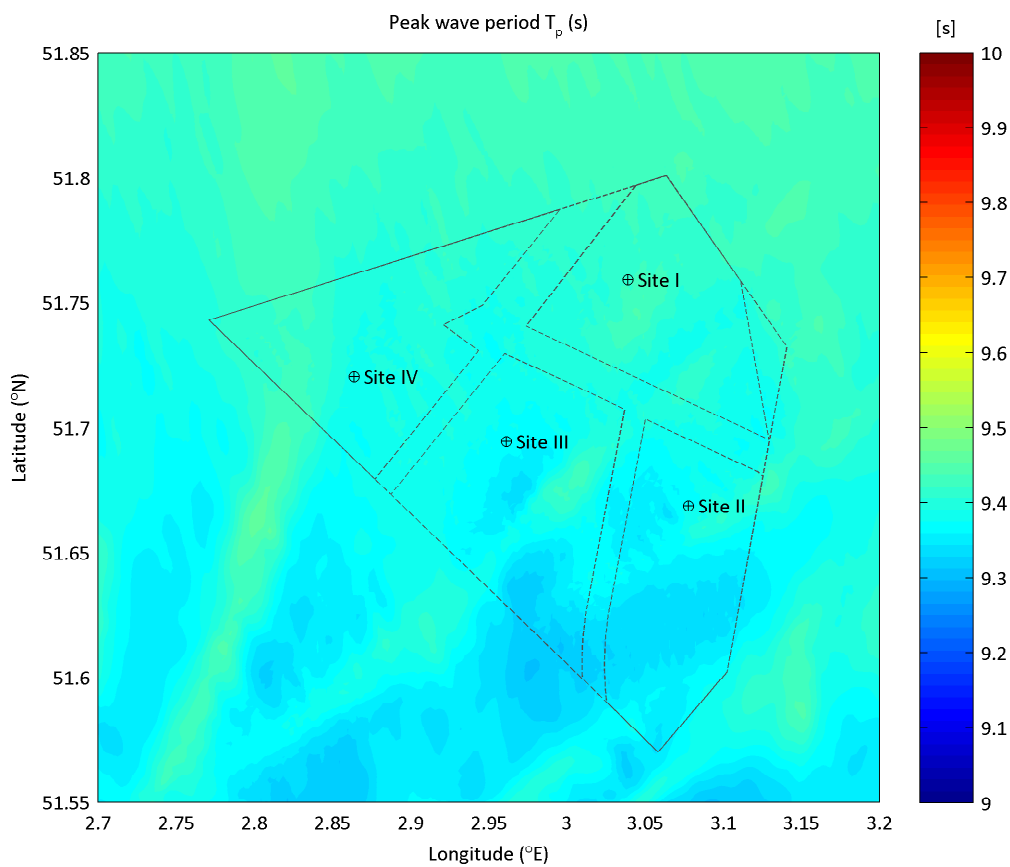
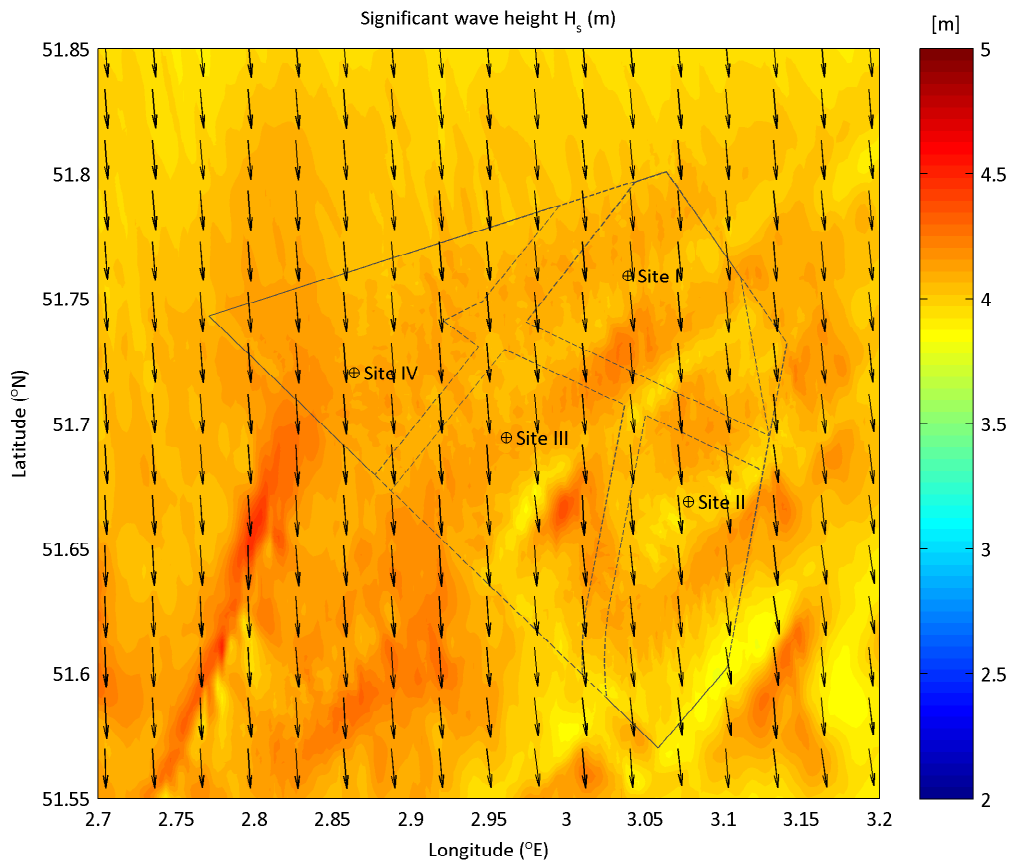
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 100yr

maximum still water level

Deltares

App. B.3.078



Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

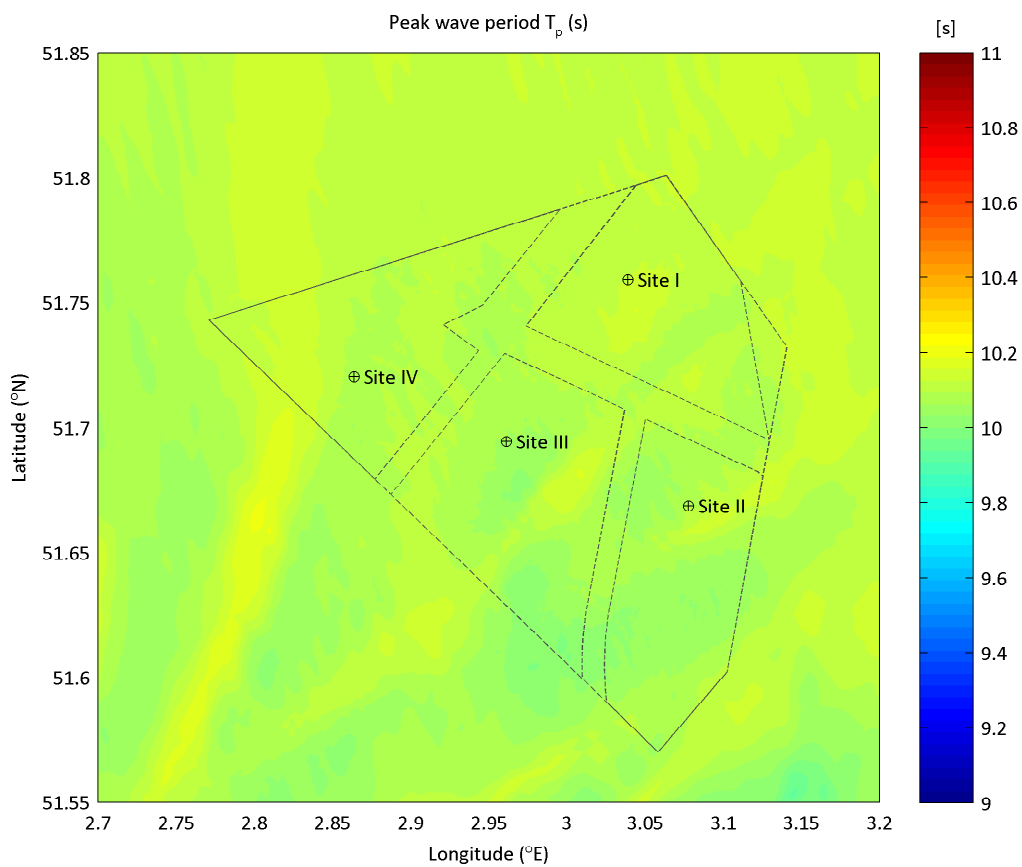
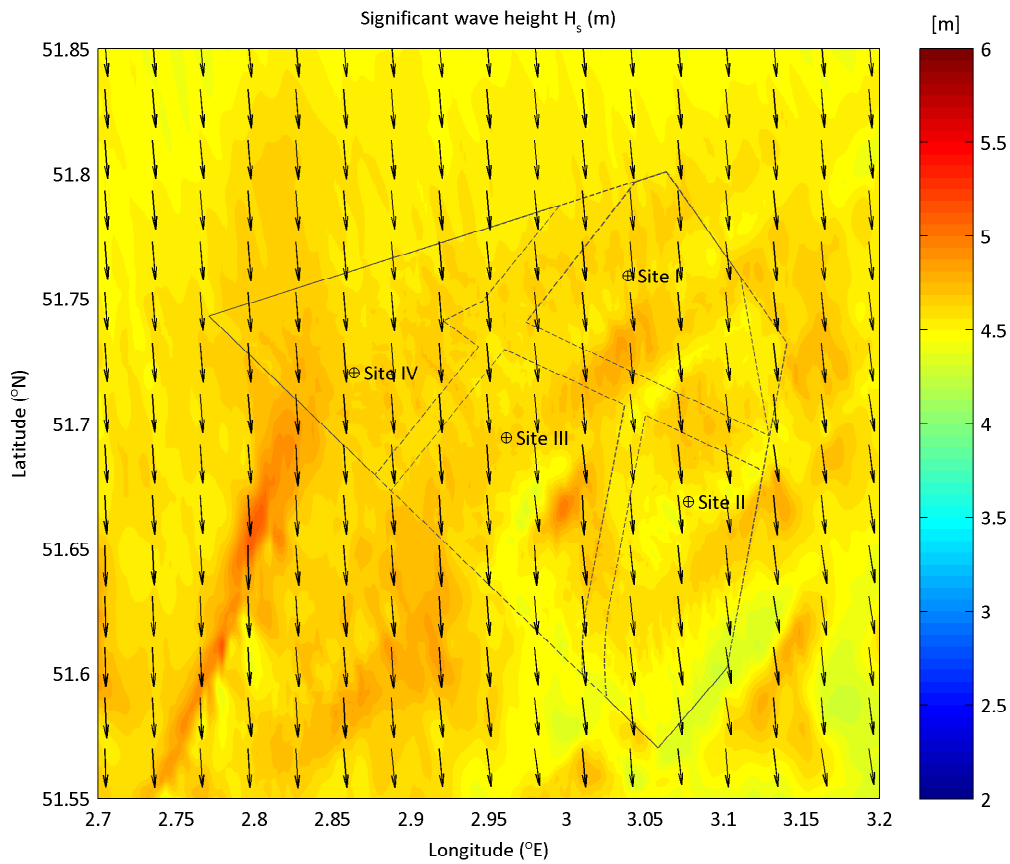
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.001



Extreme wave condition from Sector345 (°N) - 15 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

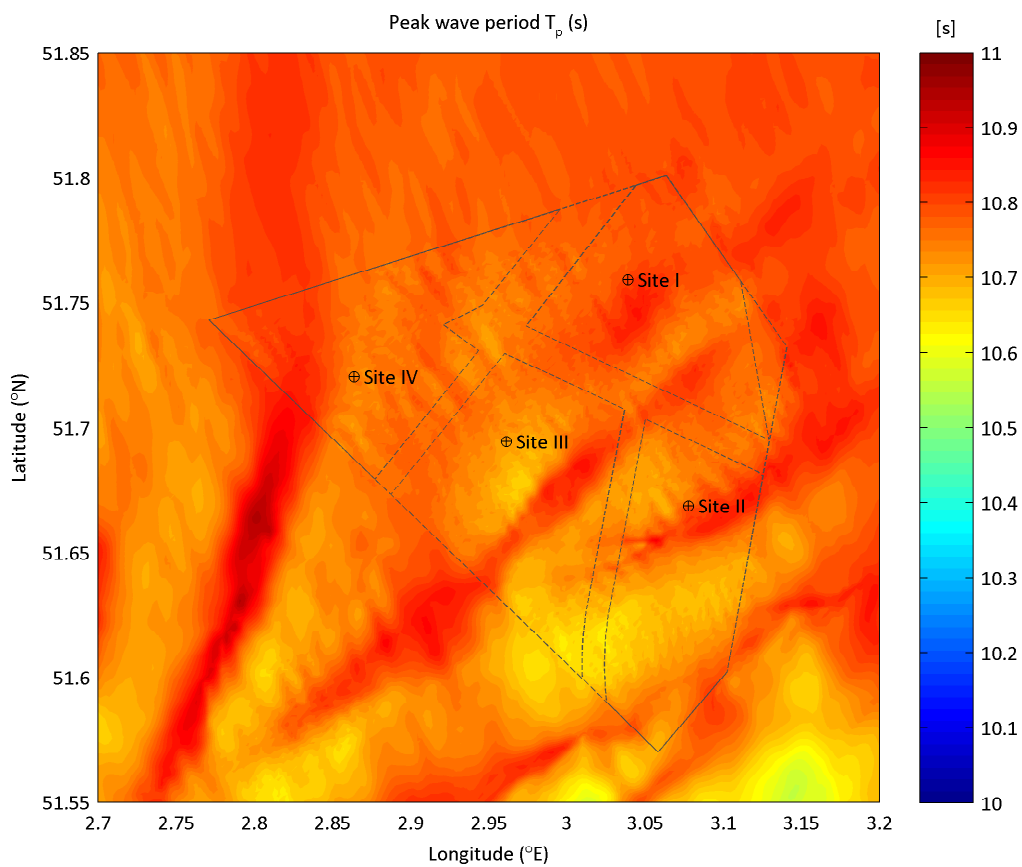
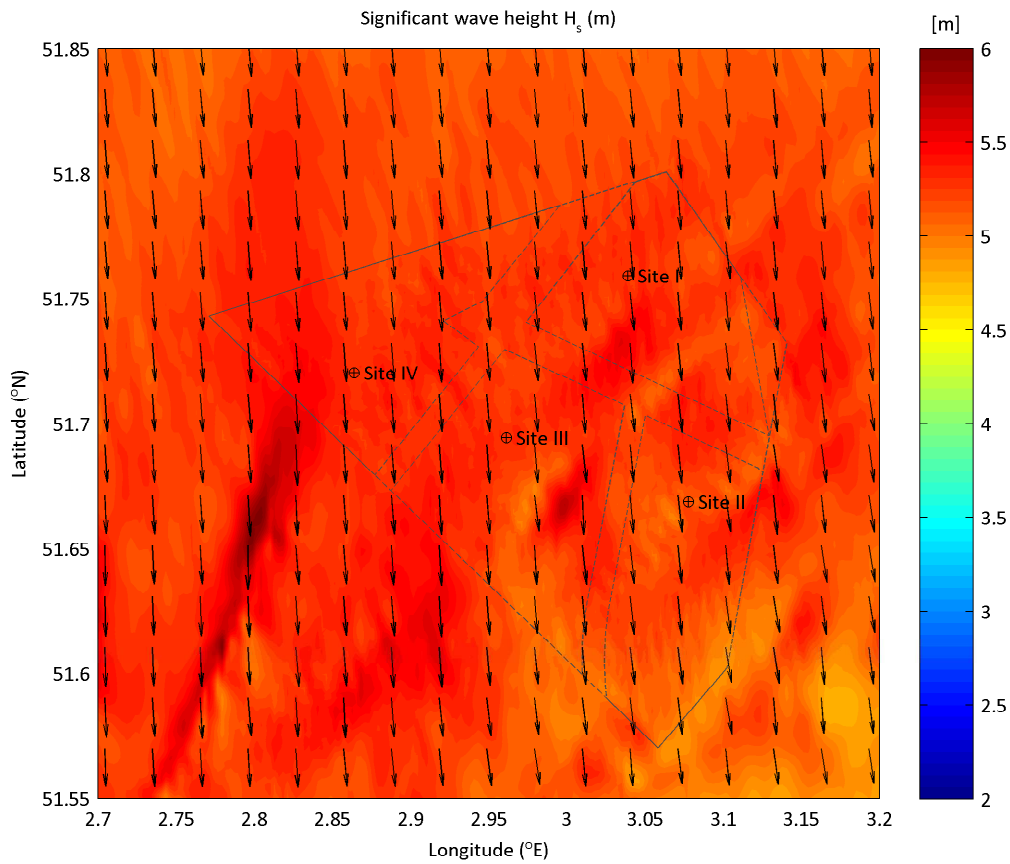
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.002



Extreme wave condition from Sector345 (°N) - 15 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

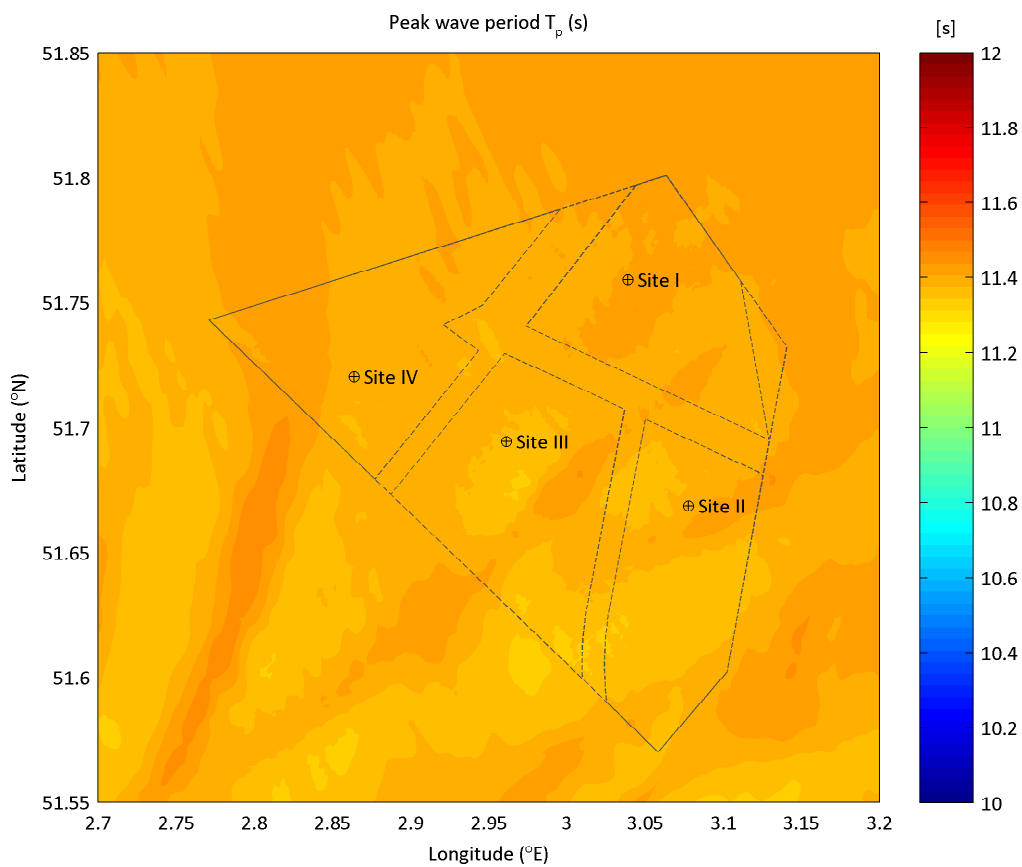
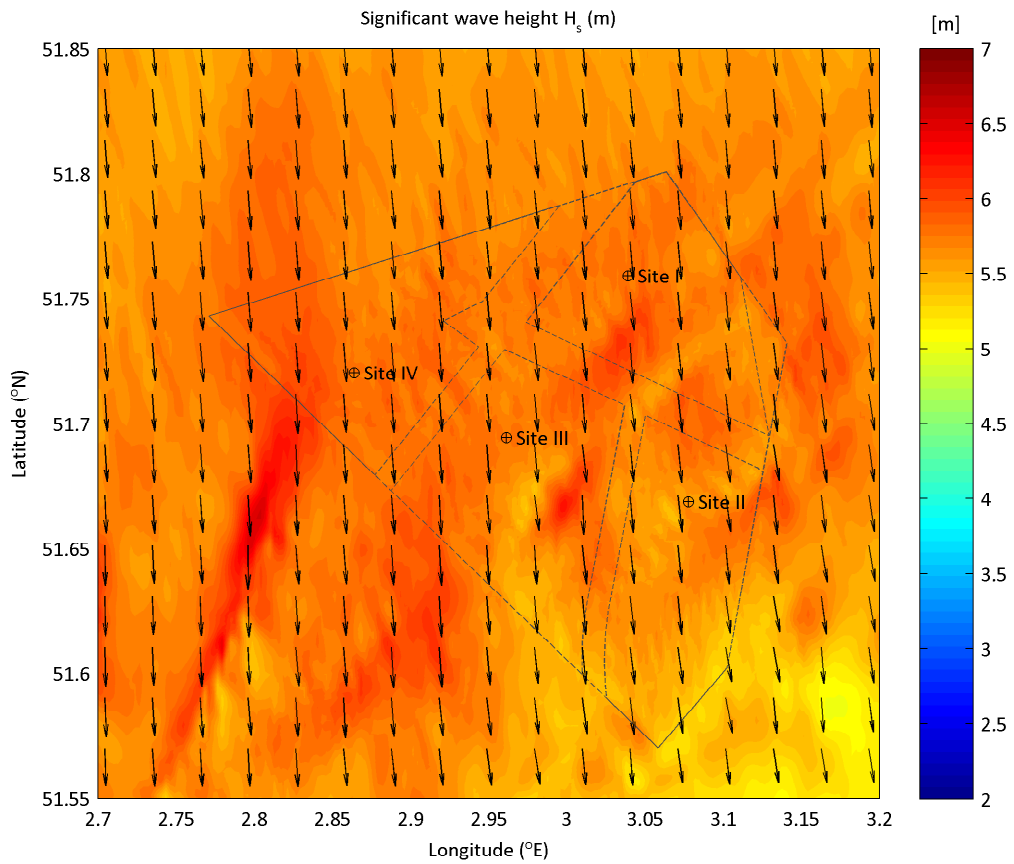
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.003



Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

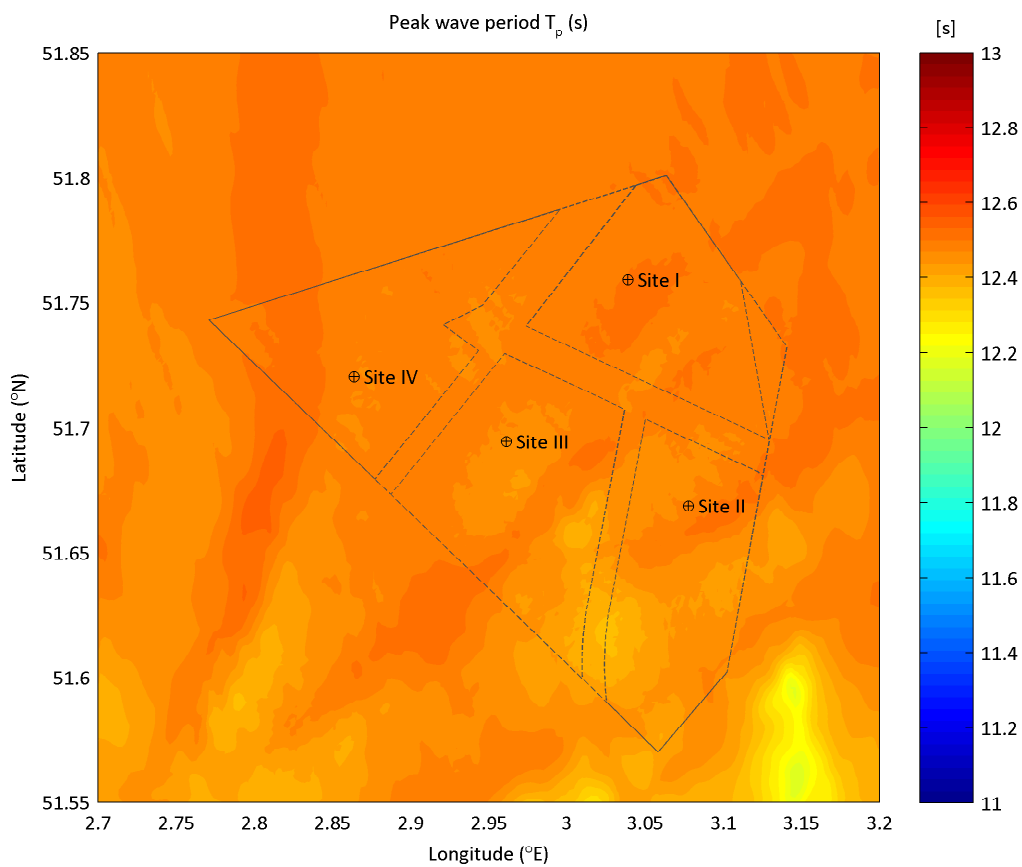
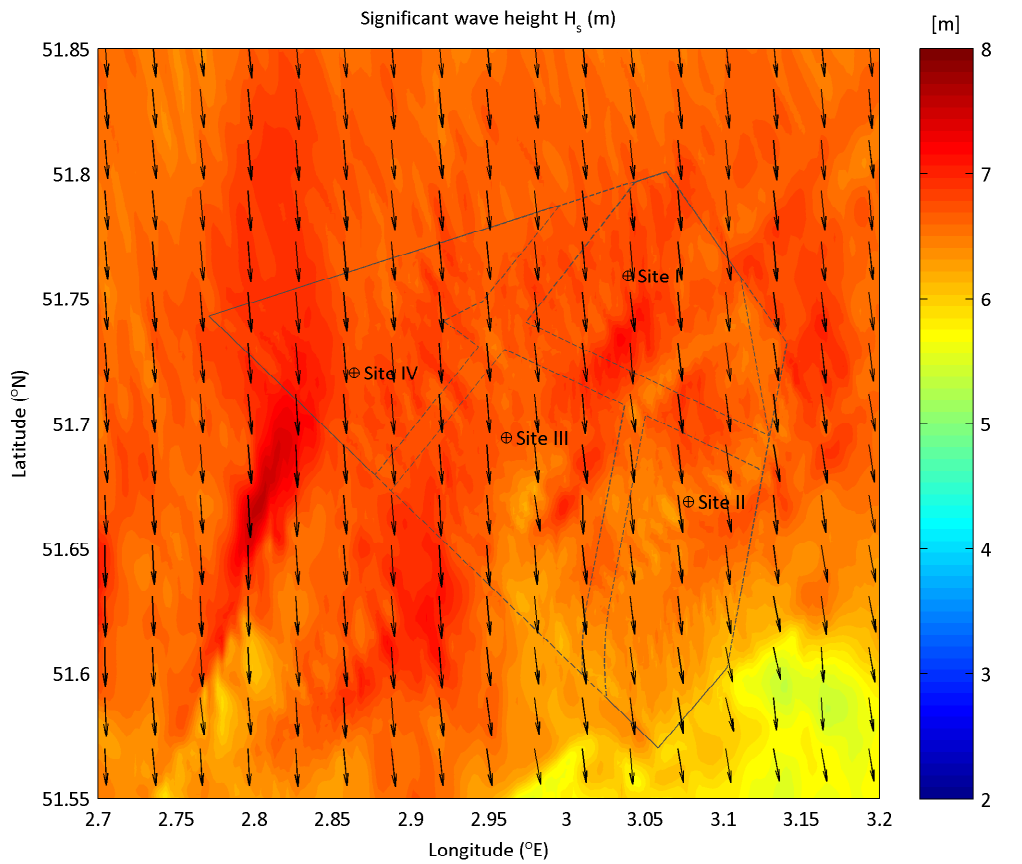
Nautical convention: coming from, clockwise from North

RP: 10yr

minimum still water level

Deltares

App. B.4.004



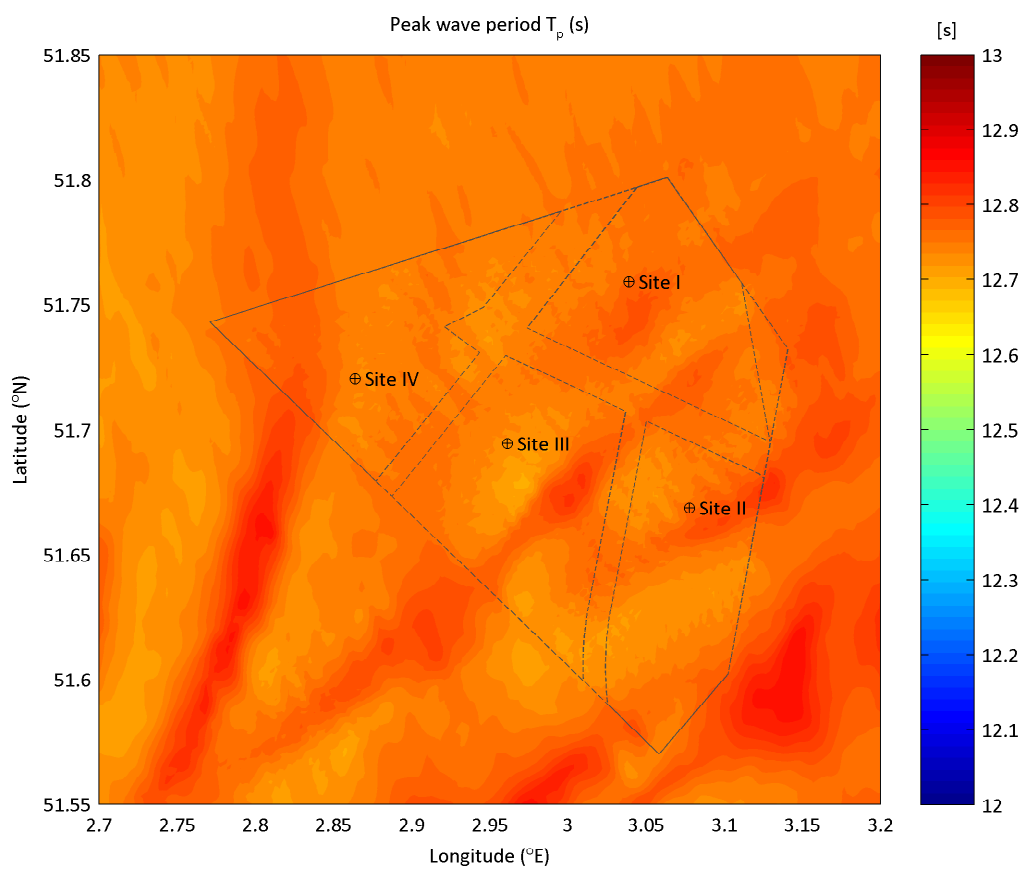
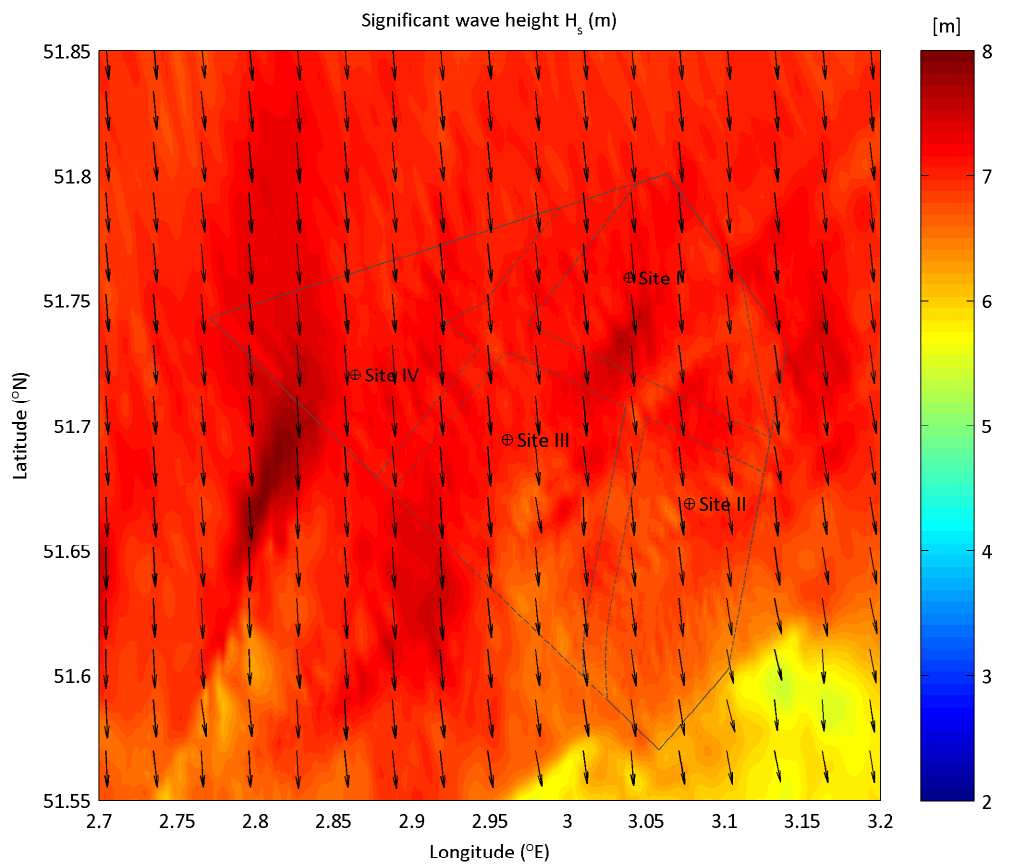
Extreme wave condition from Sector345 (°N) - 15 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.005



Extreme wave condition from Sector345 ($^{\circ}$ N) - 15 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

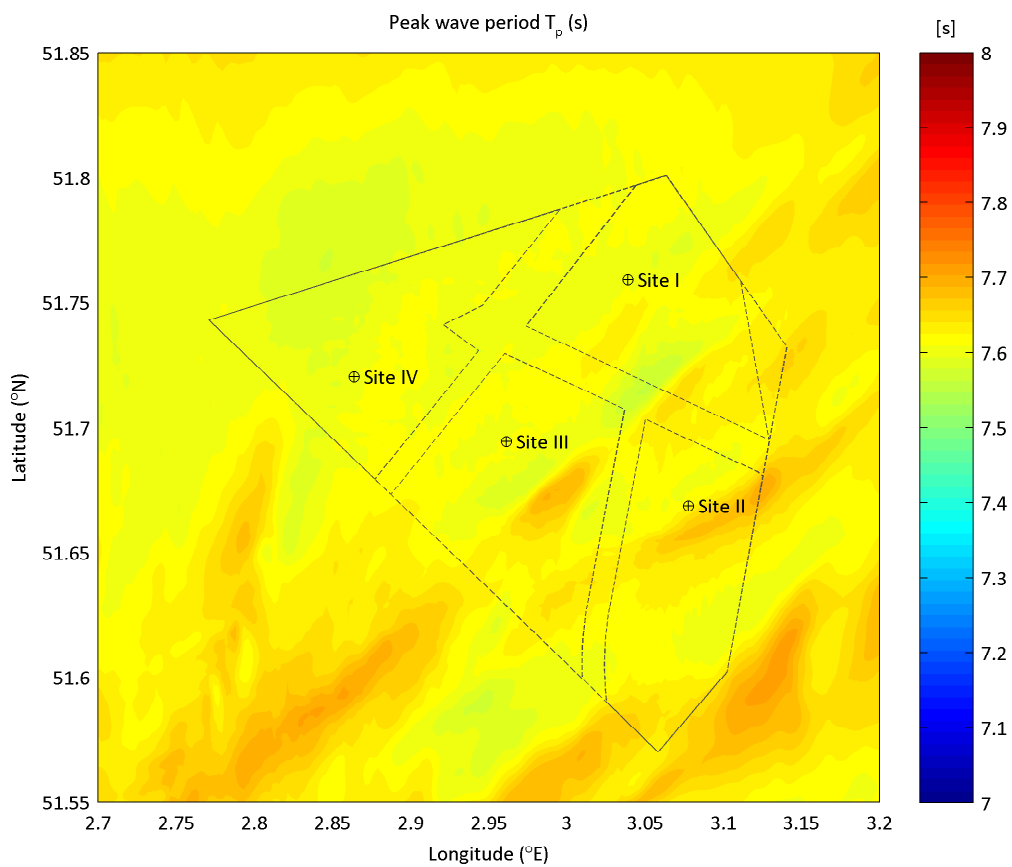
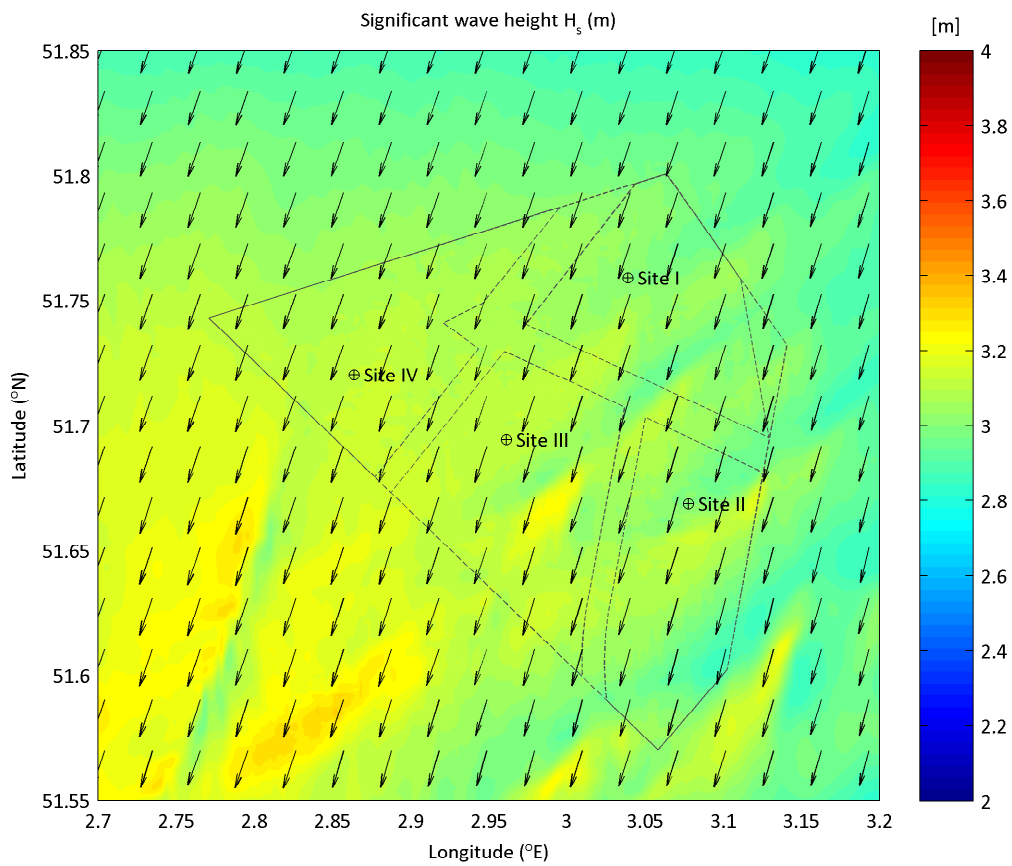
Nautical convention: coming from, clockwise from North

RP: 100yr

minimum still water level

Deltares

App. B.4.006



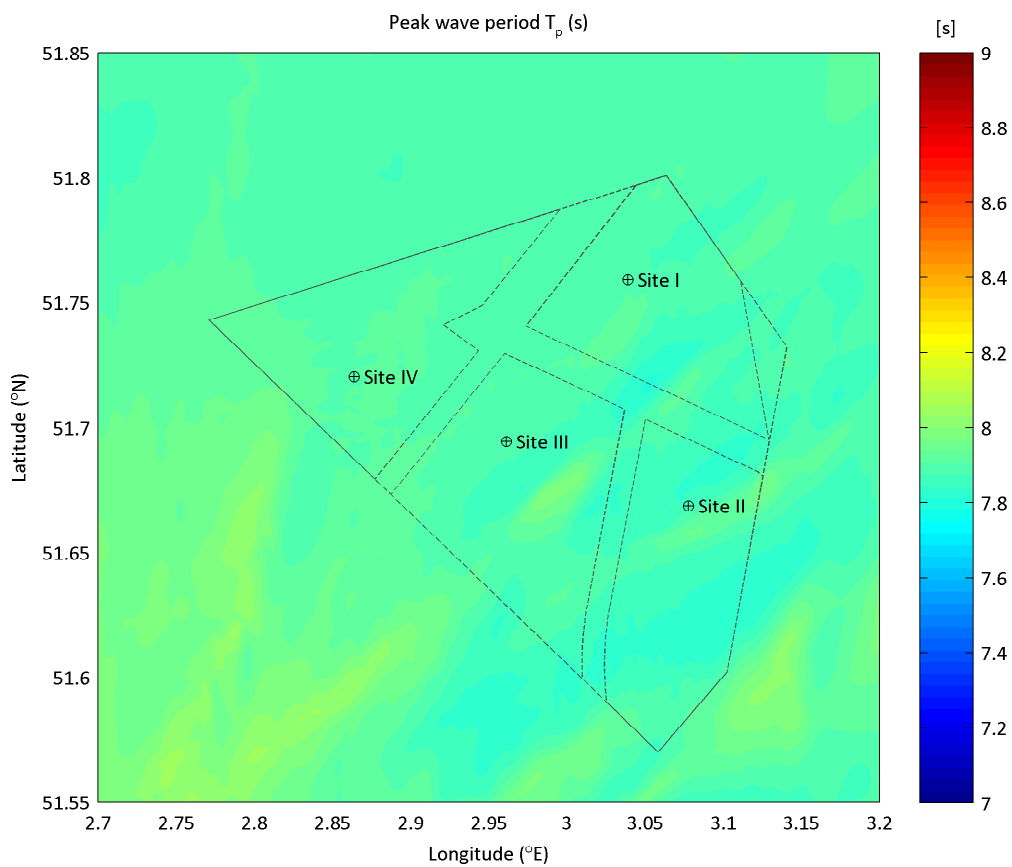
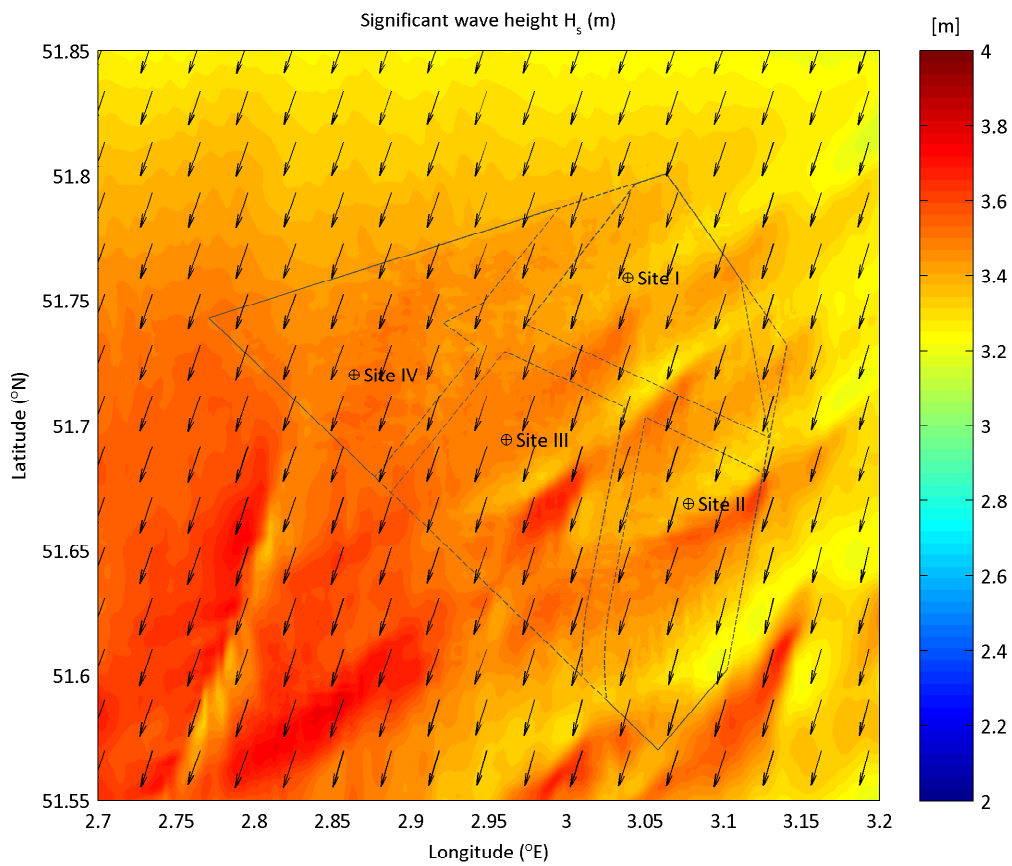
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 1yr

minimum still water level

App. B.4.007



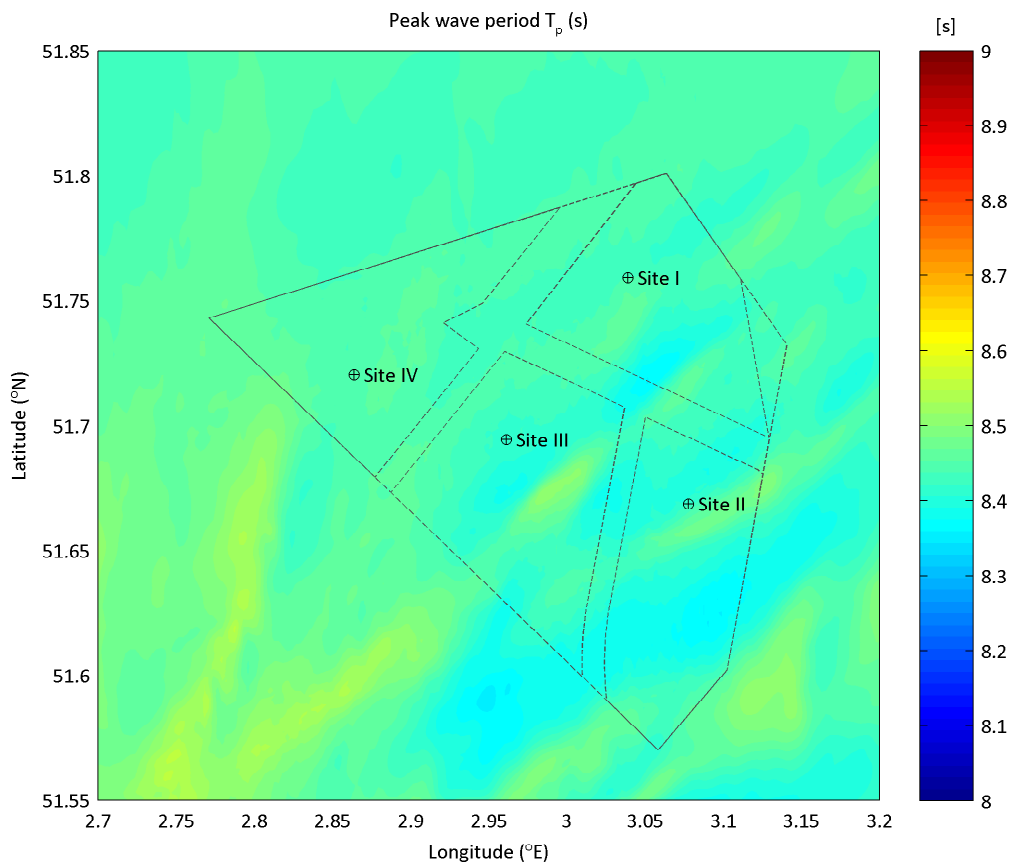
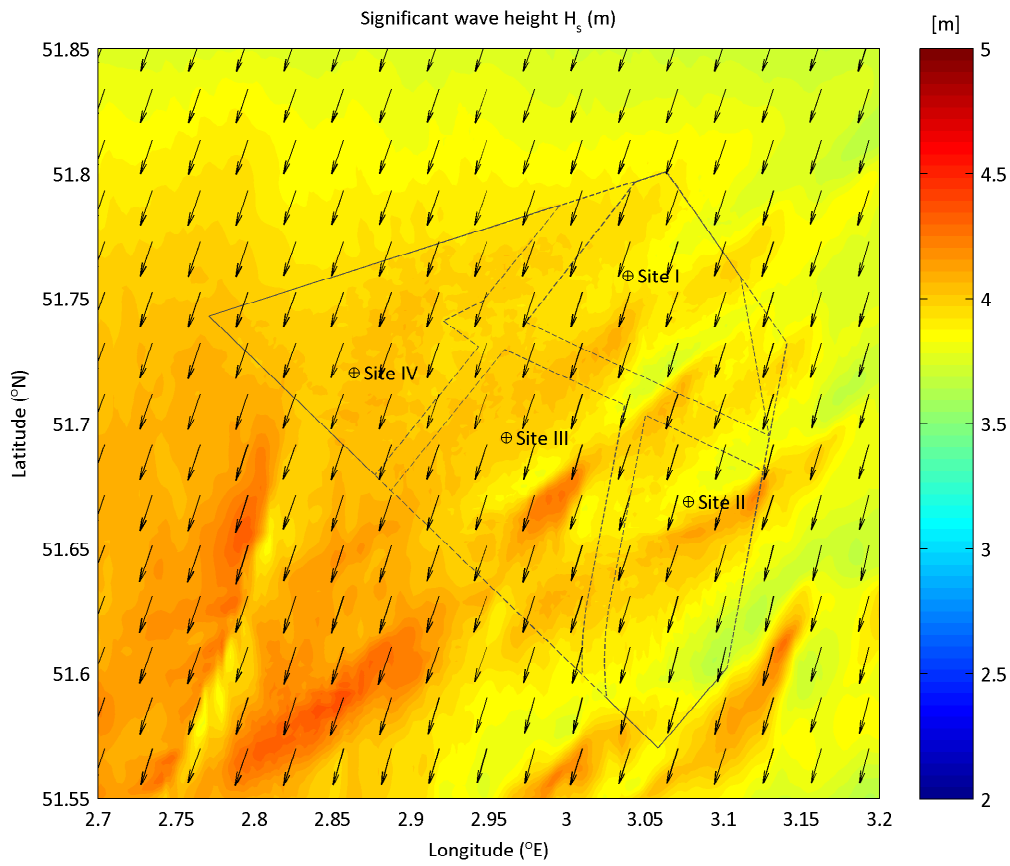
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

minimum still water level

App. B.4.008



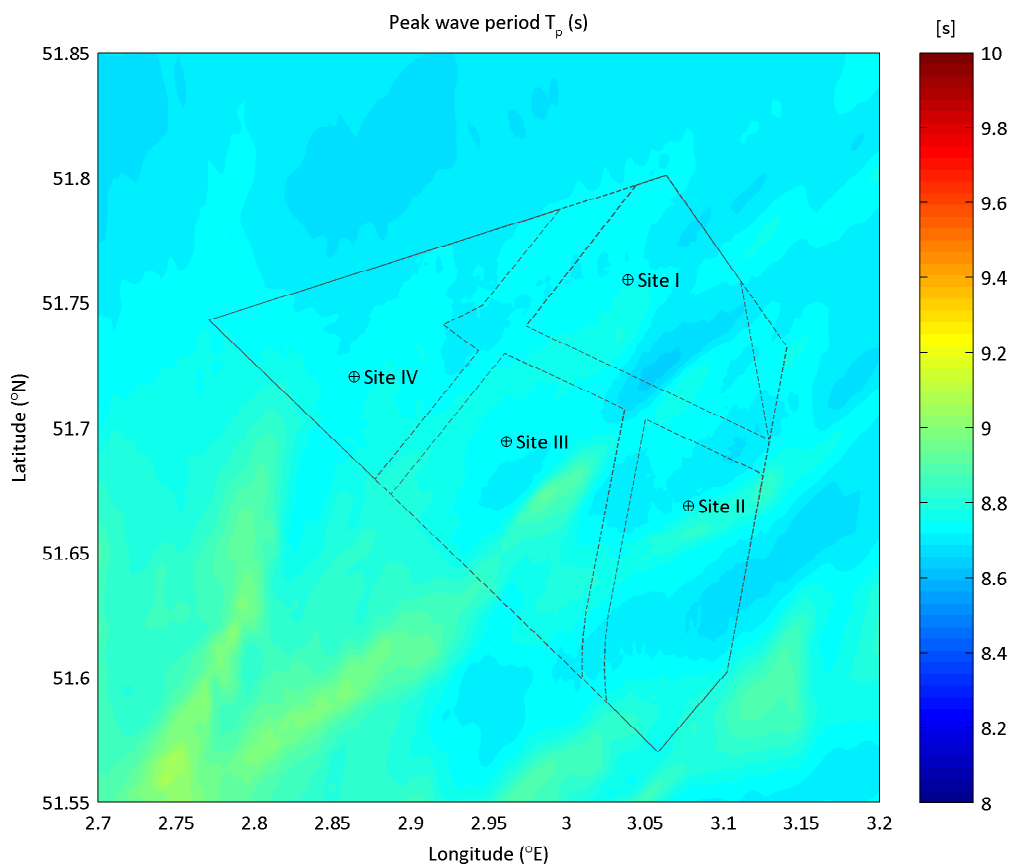
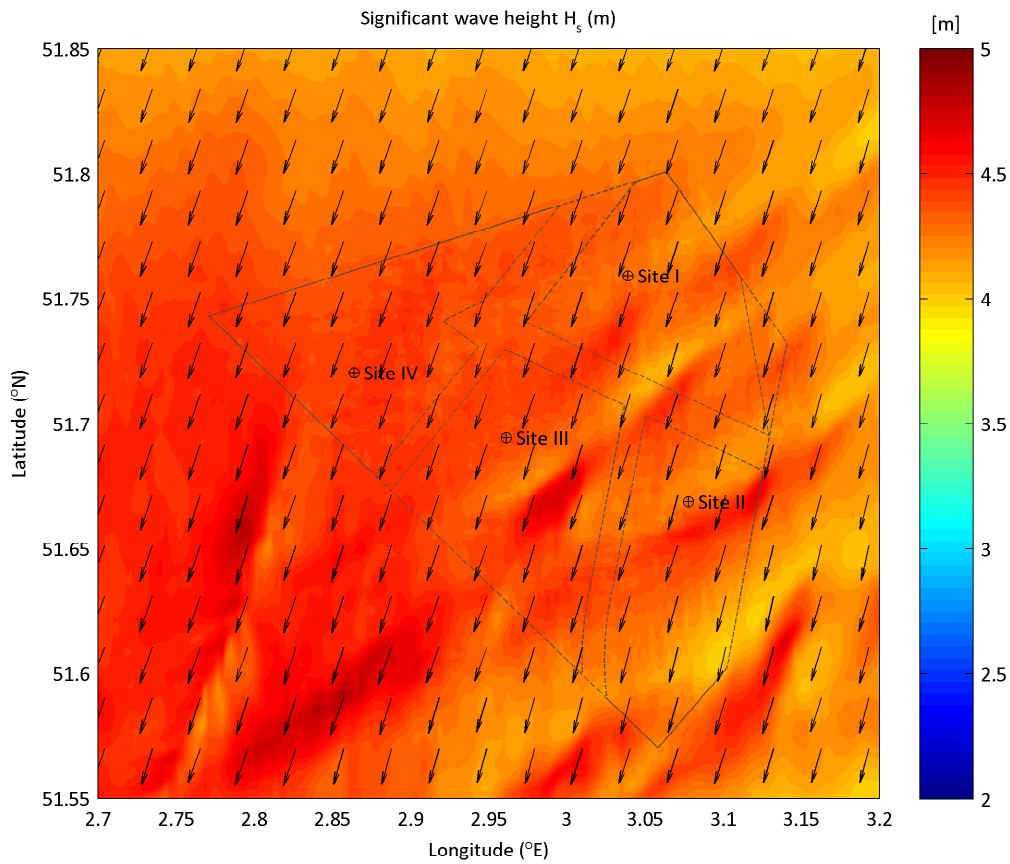
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

minimum still water level

App. B.4.009



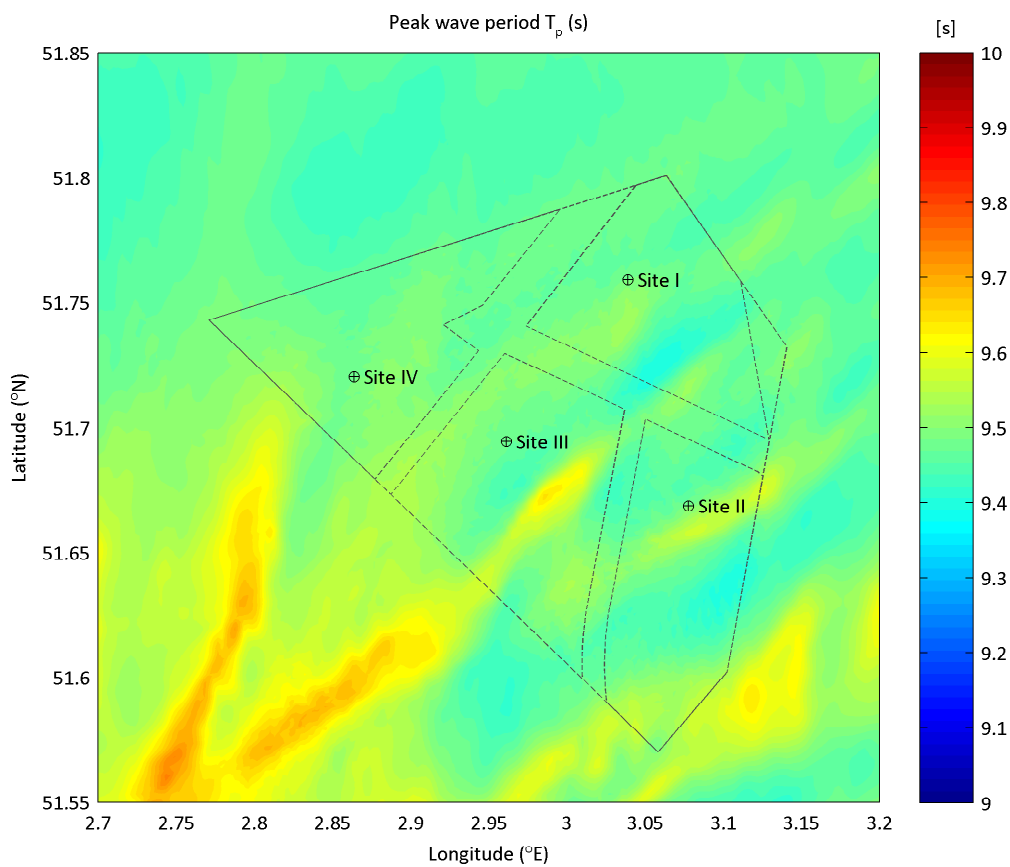
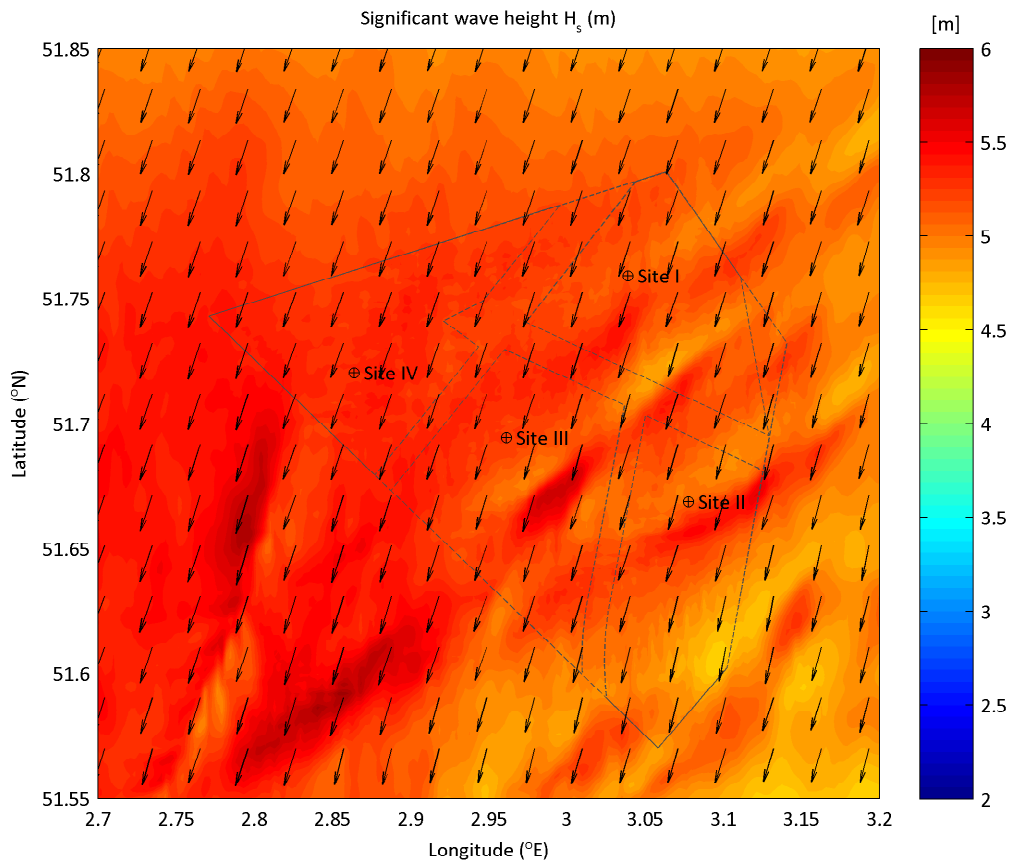
Extreme wave condition from Sector15 (°N) - 45 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.010



Extreme wave condition from Sector15 (°N) - 45 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

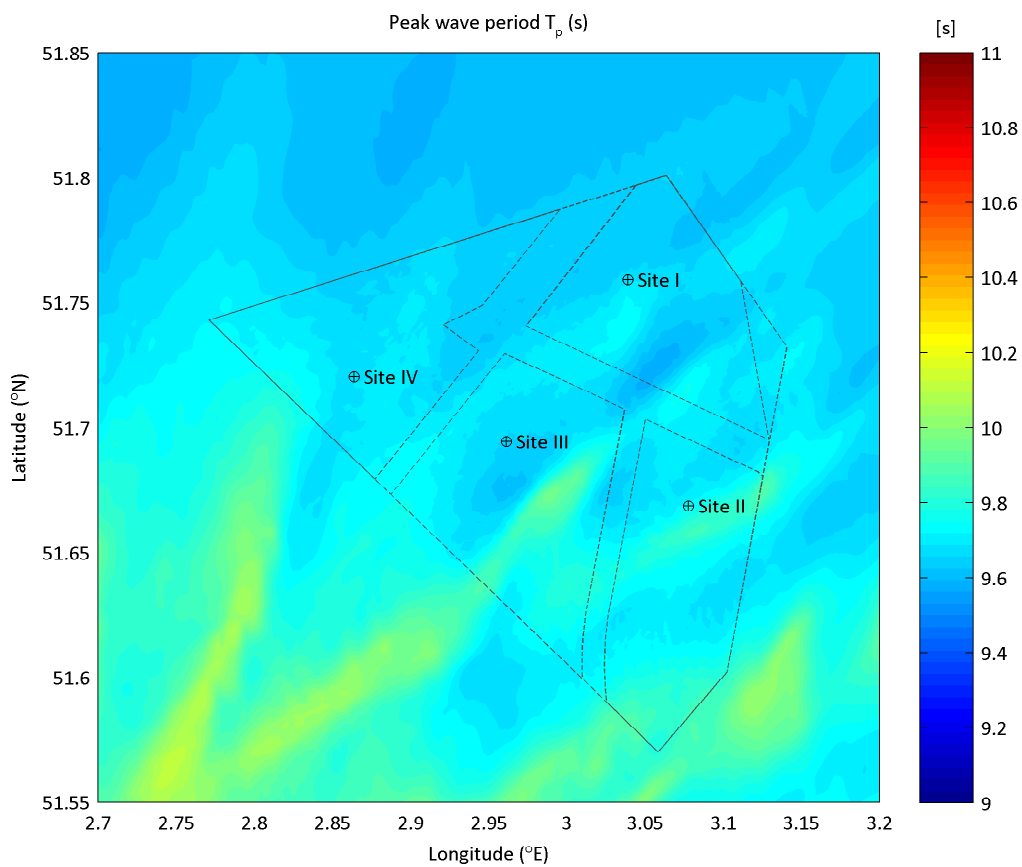
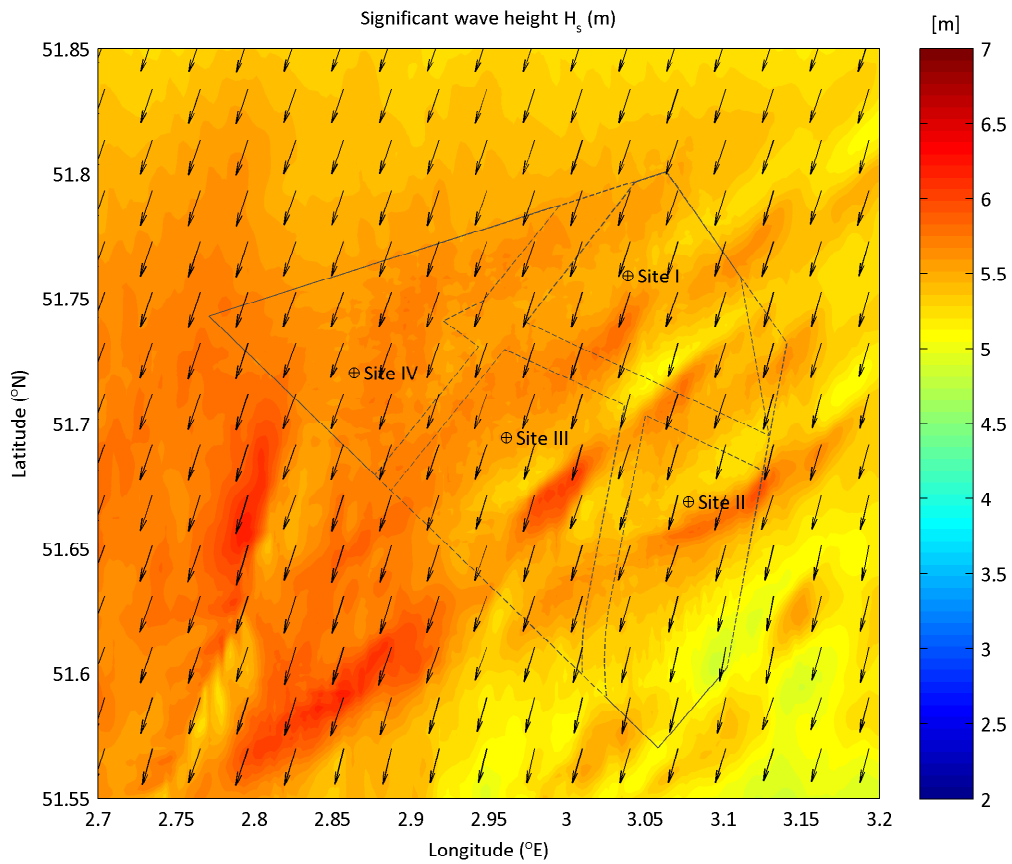
Nautical convention: coming from, clockwise from North

RP: 50yr

minimum still water level

Deltares

App. B.4.011



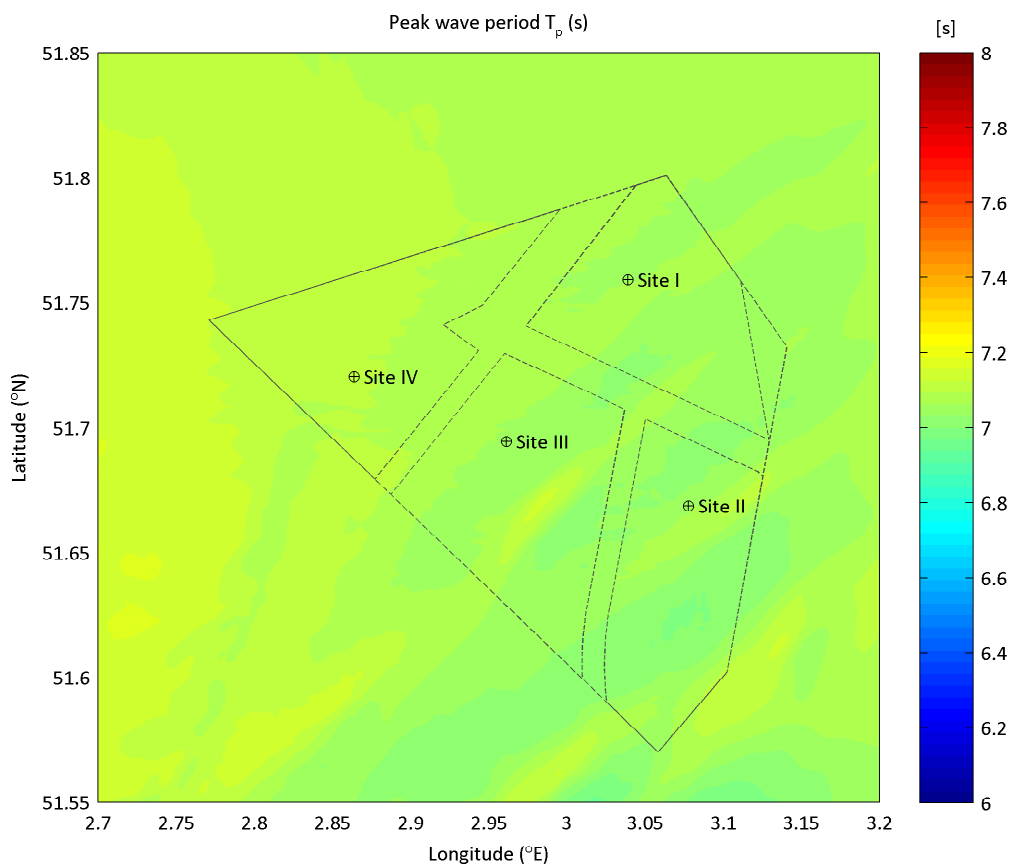
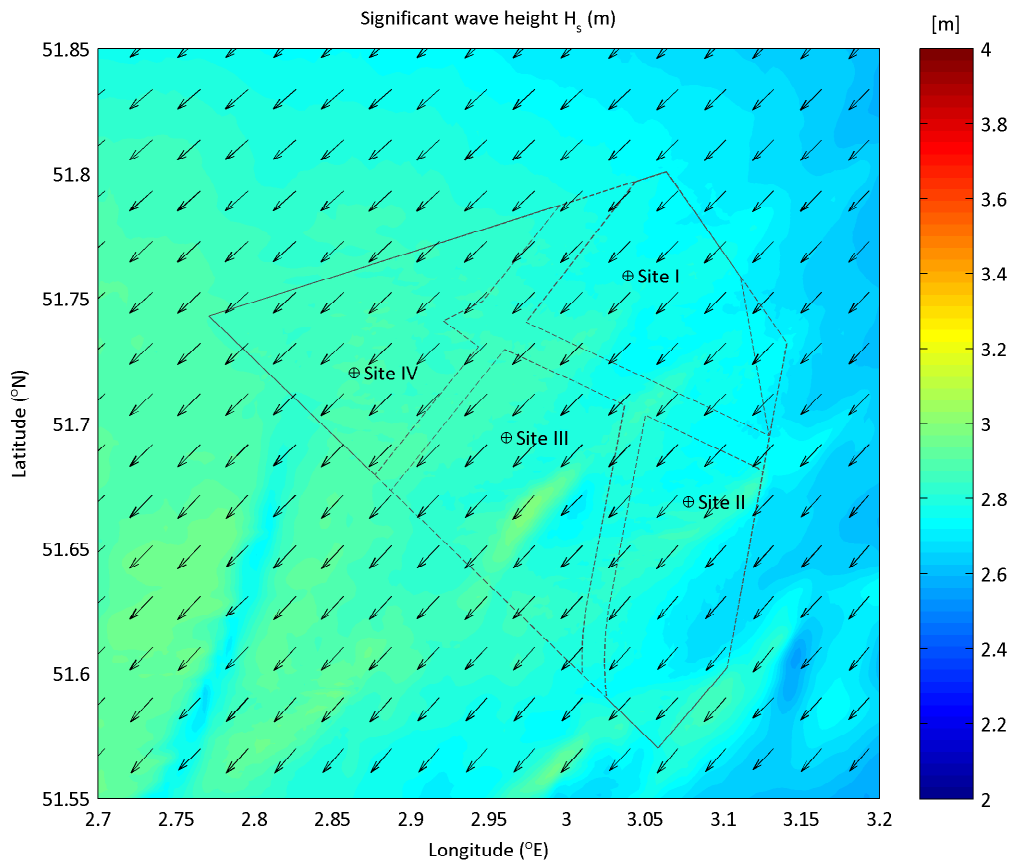
Extreme wave condition from Sector15 ($^{\circ}$ N) - 45 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.012



Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

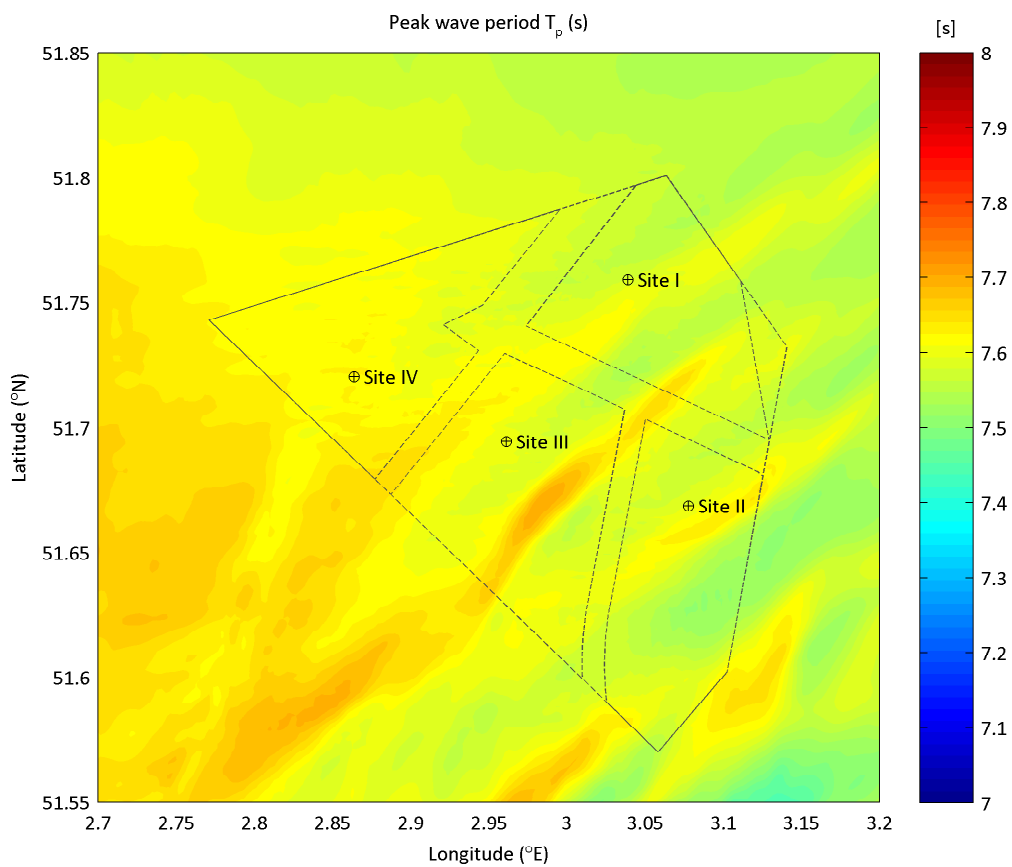
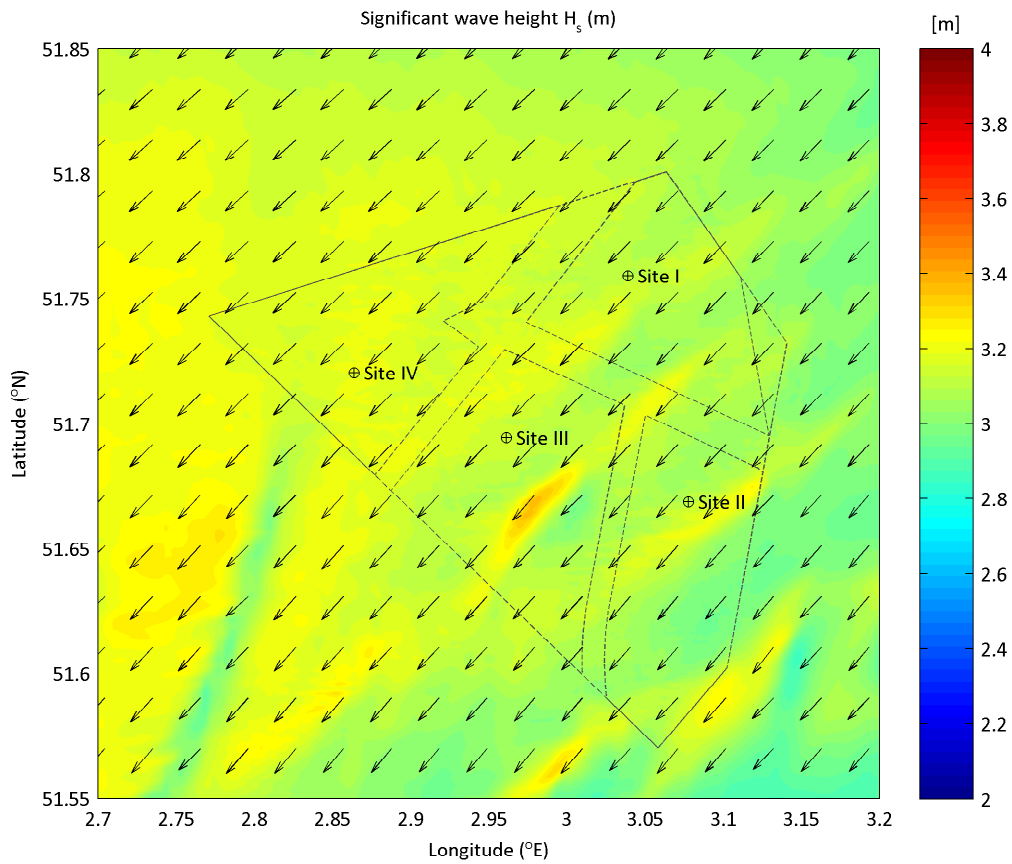
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.013



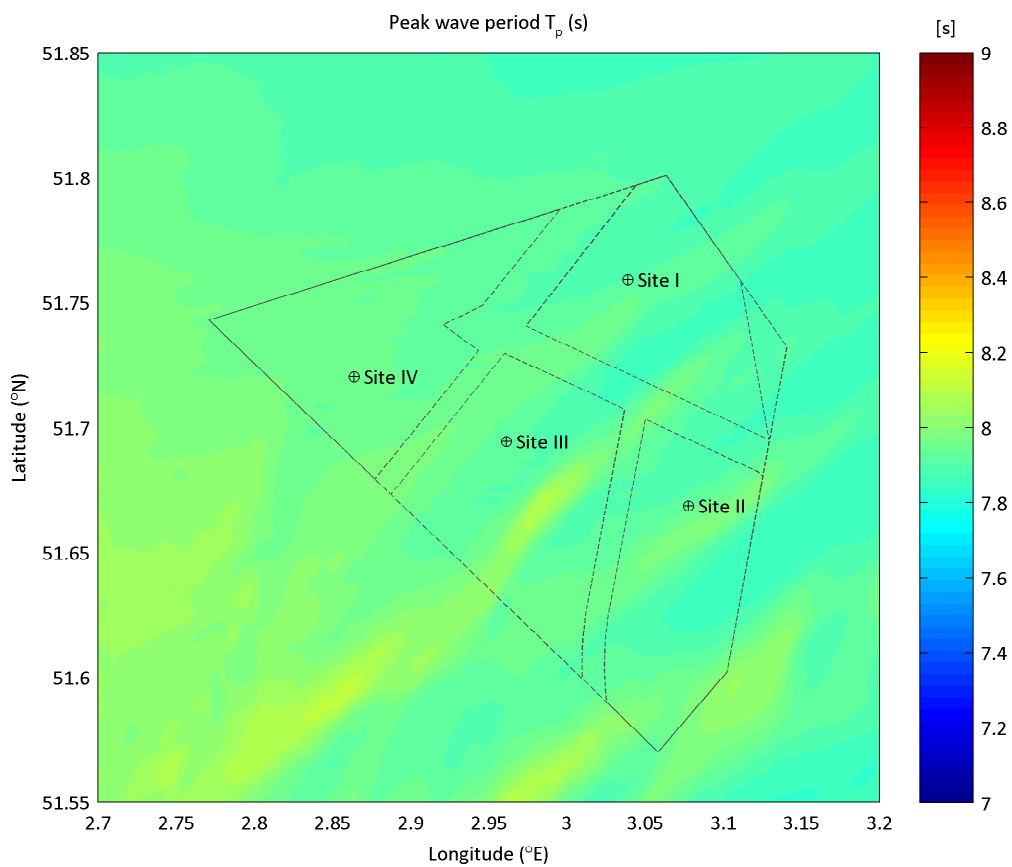
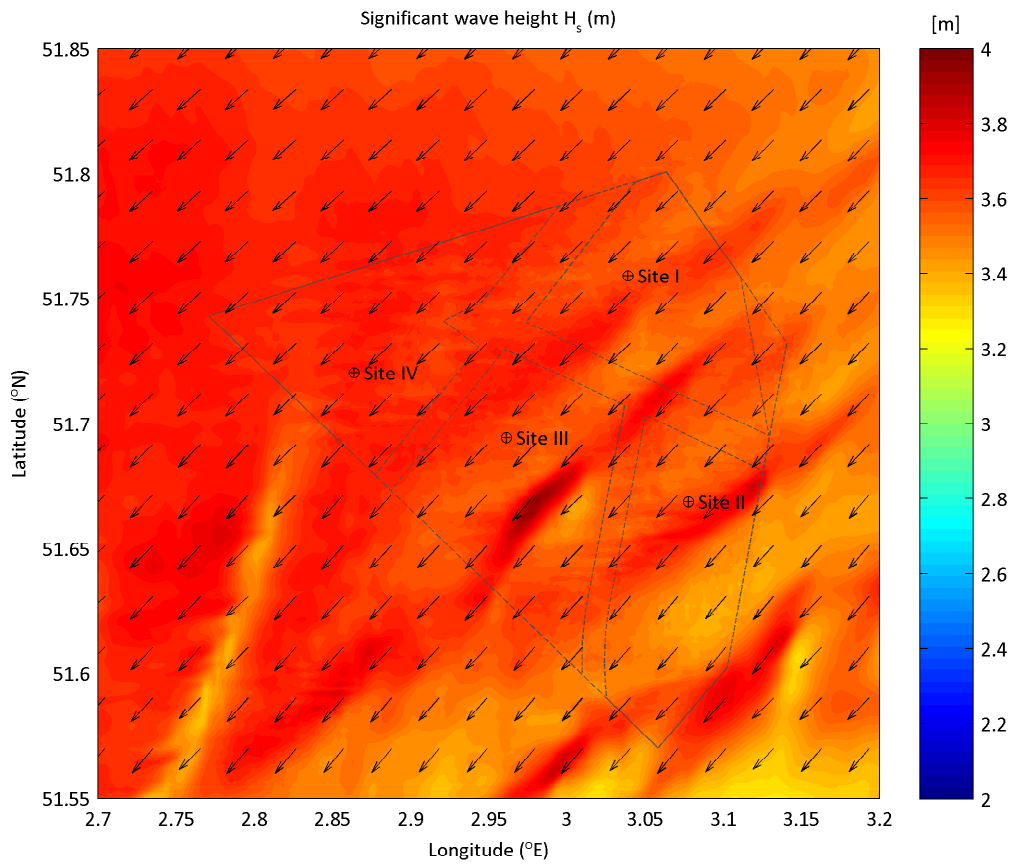
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

minimum still water level

App. B.4.014



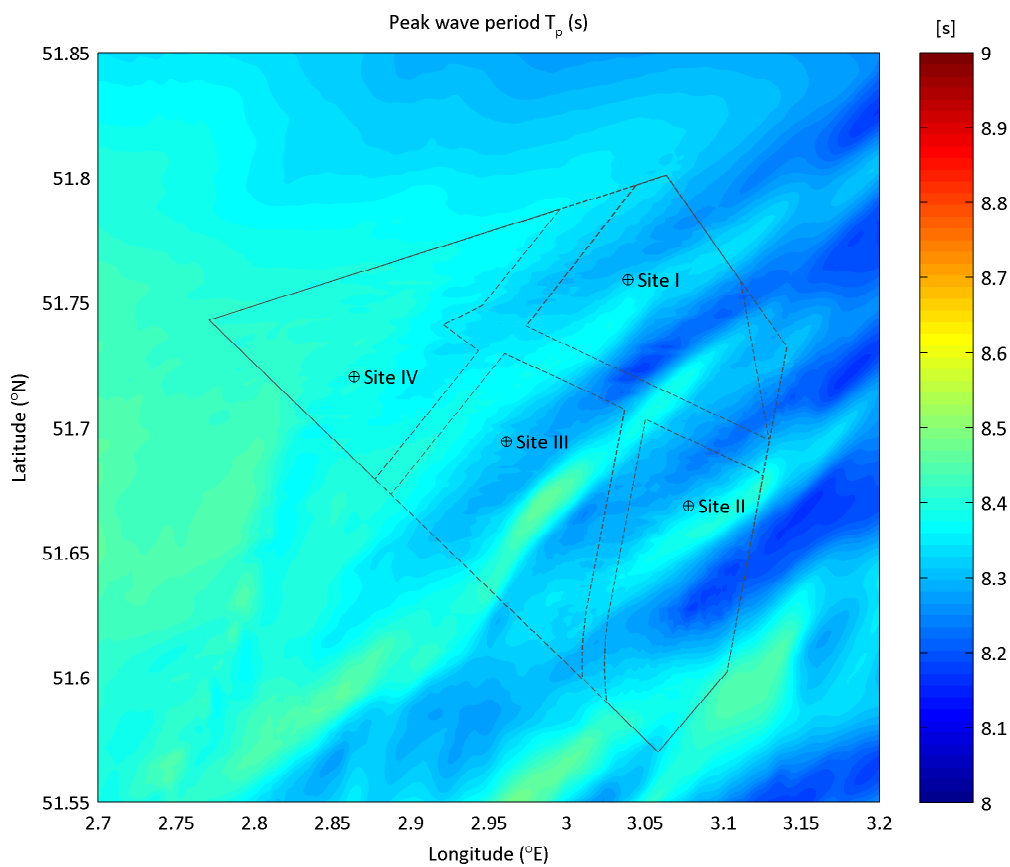
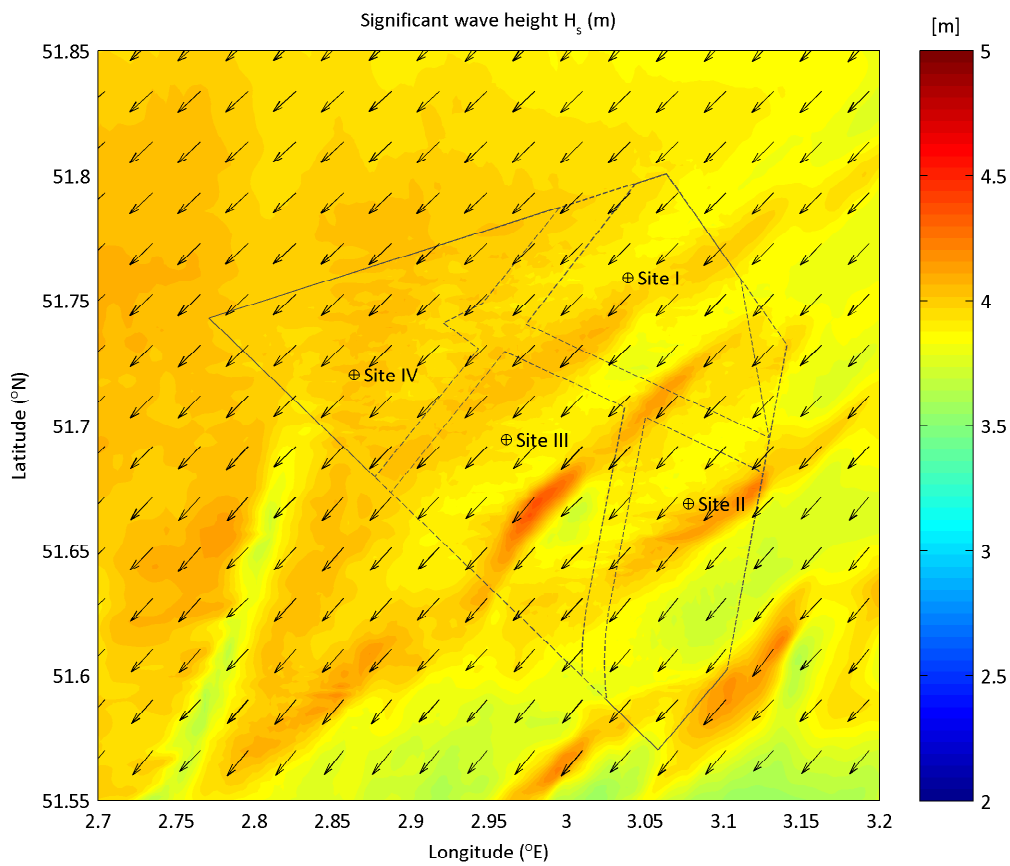
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

minimum still water level

App. B.4.015



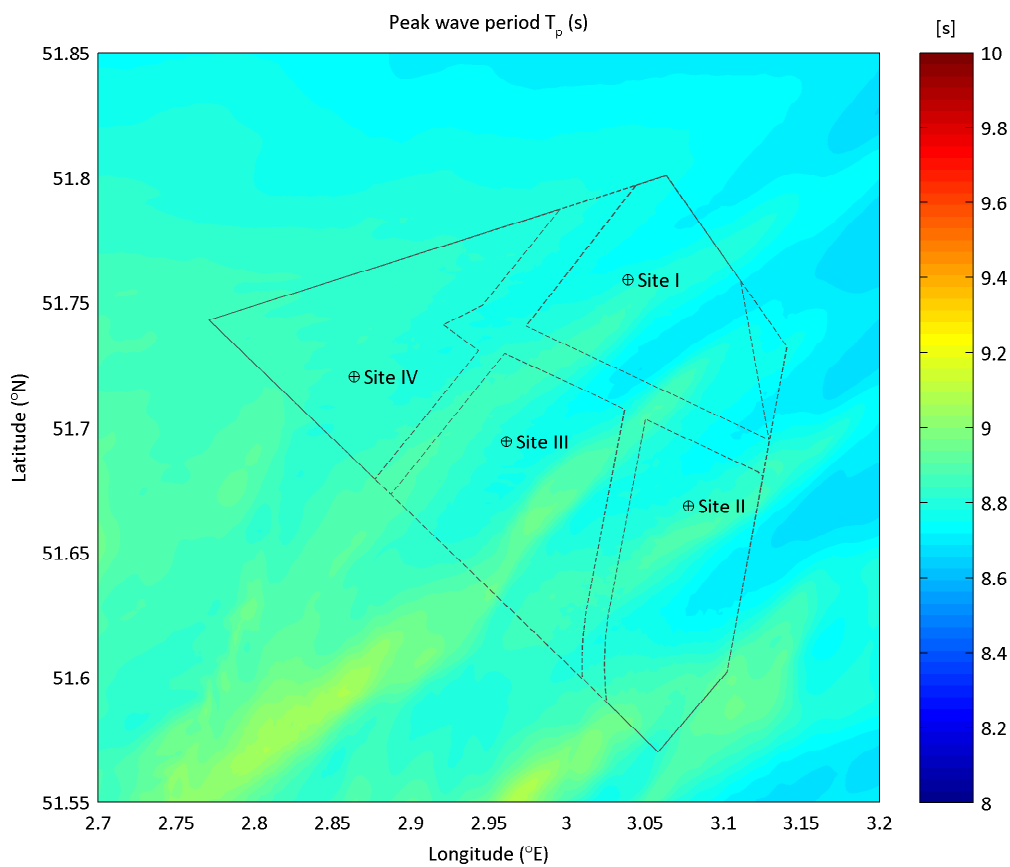
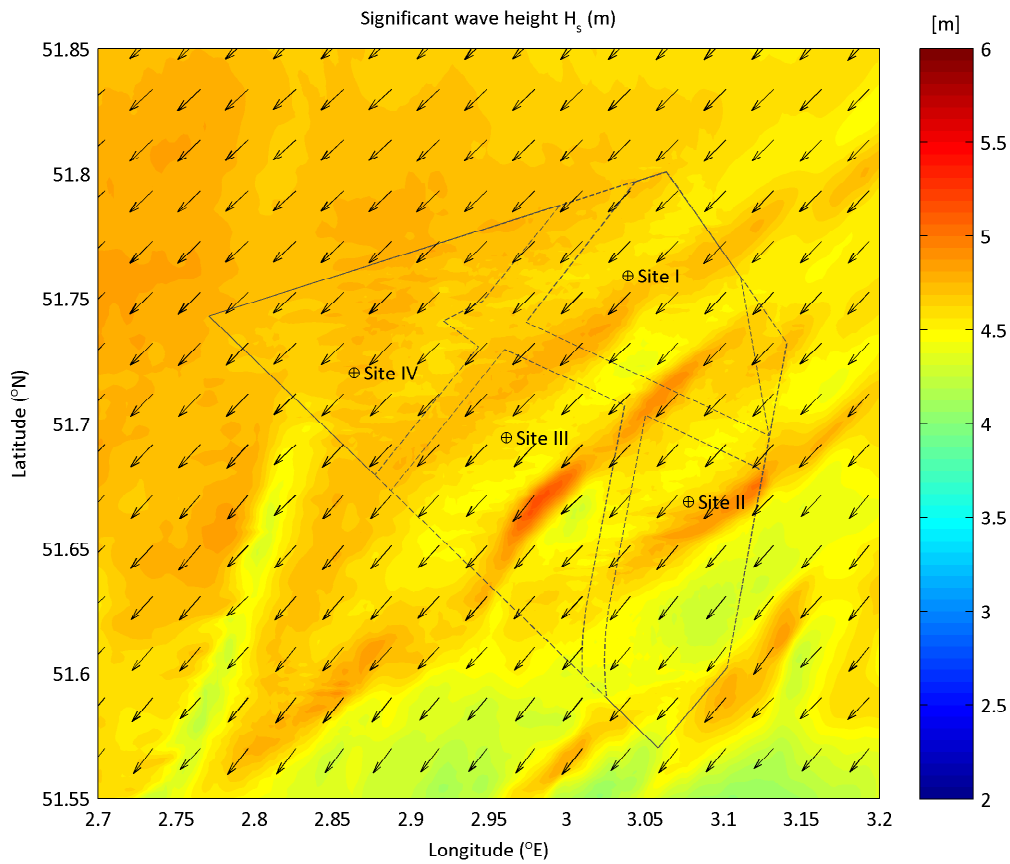
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.016



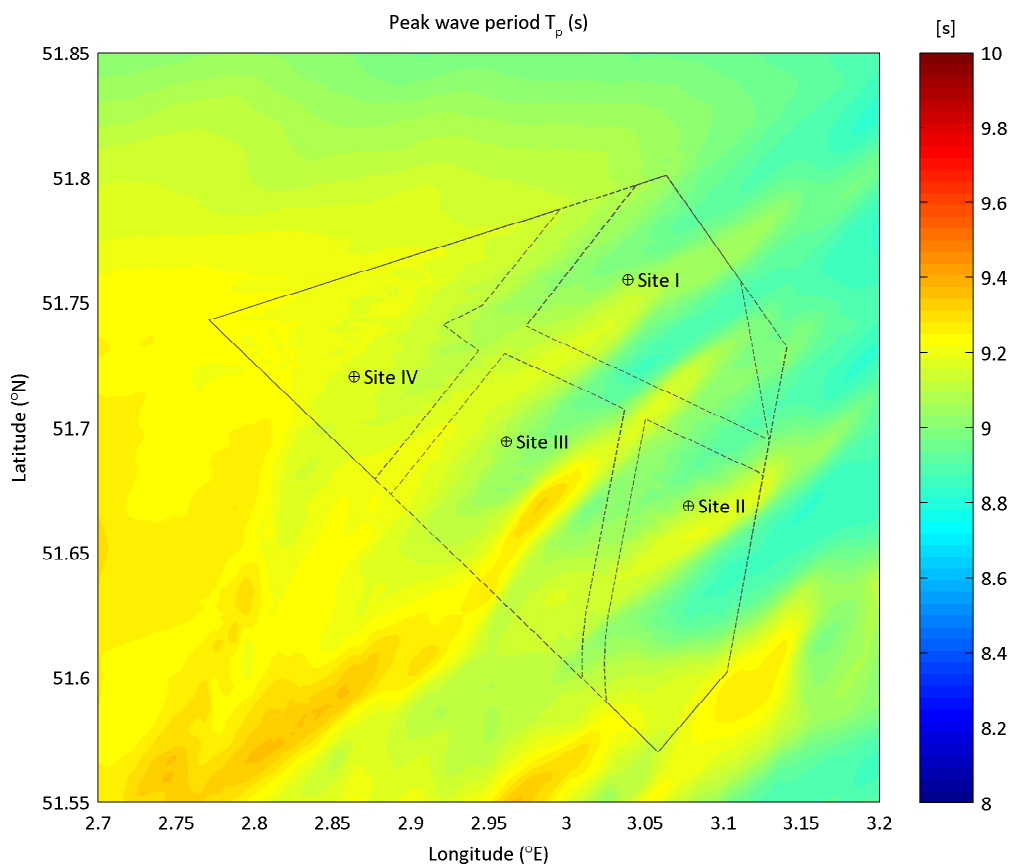
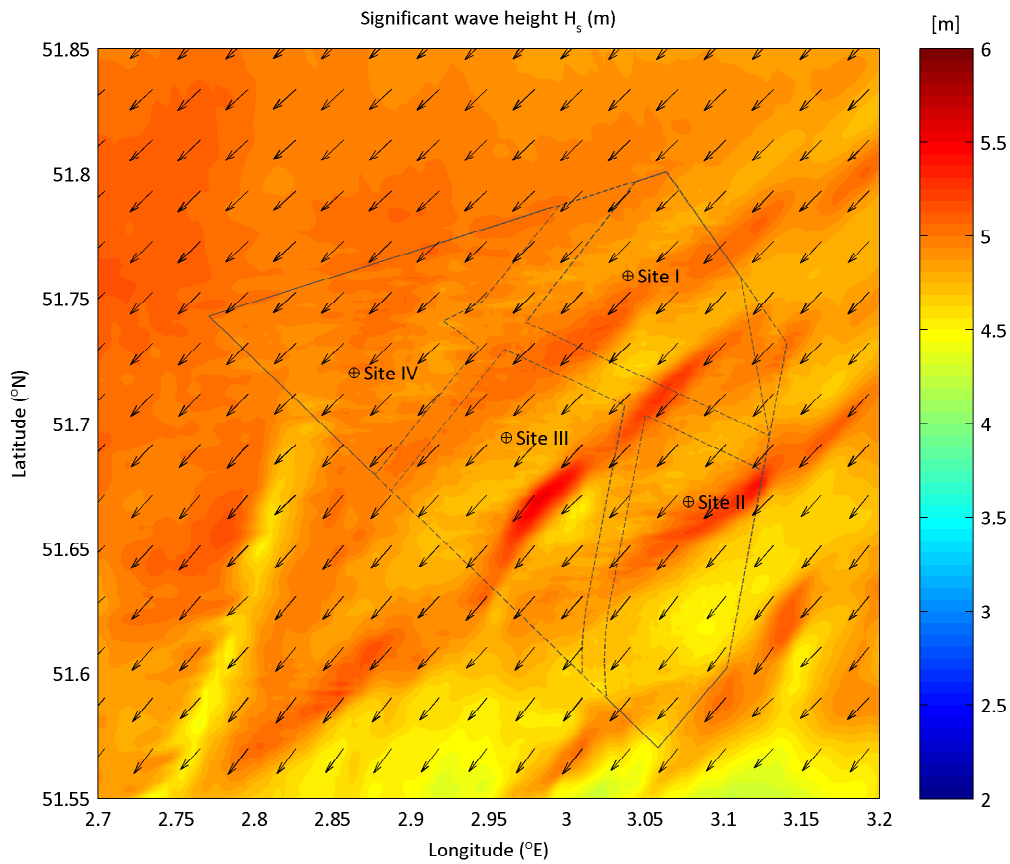
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.017



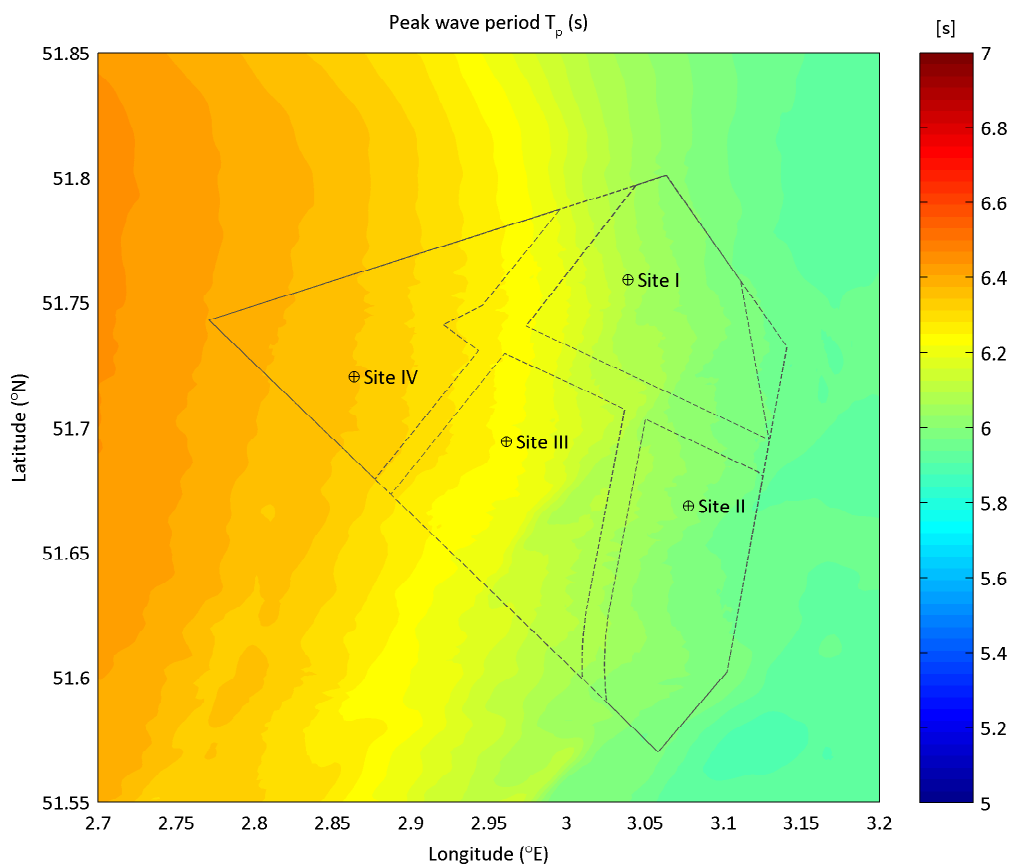
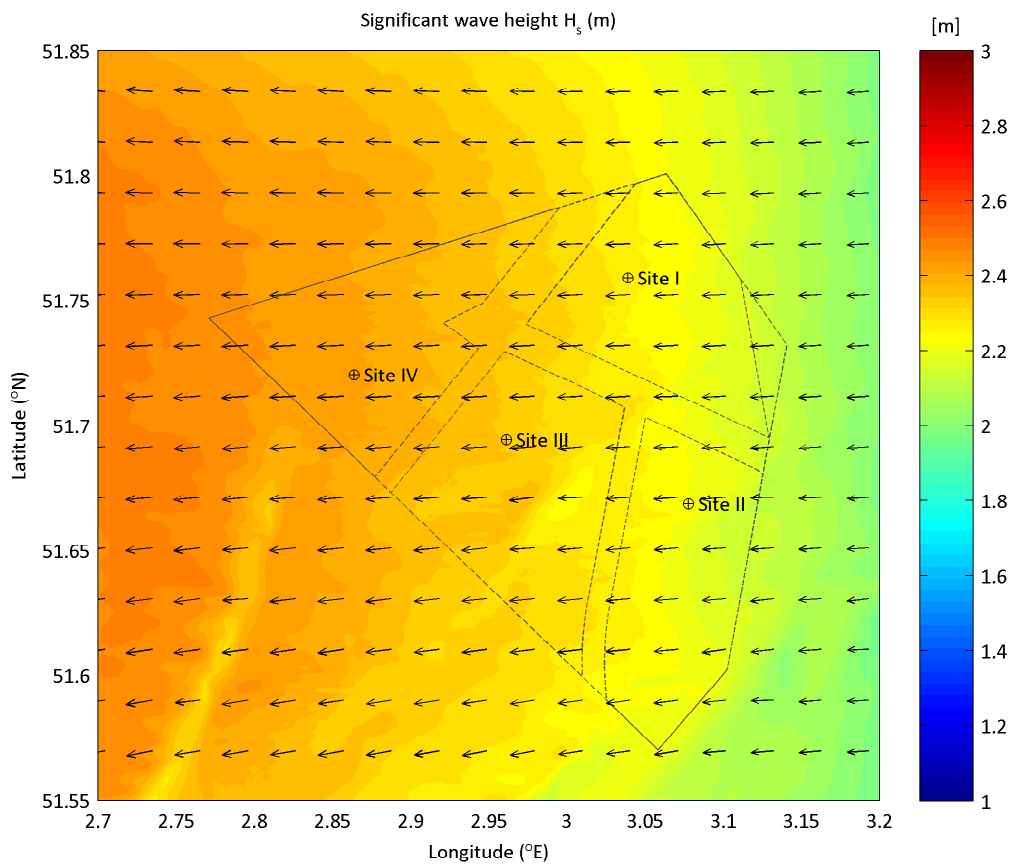
Extreme wave condition from Sector45 ($^{\circ}$ N) - 75 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.018



Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

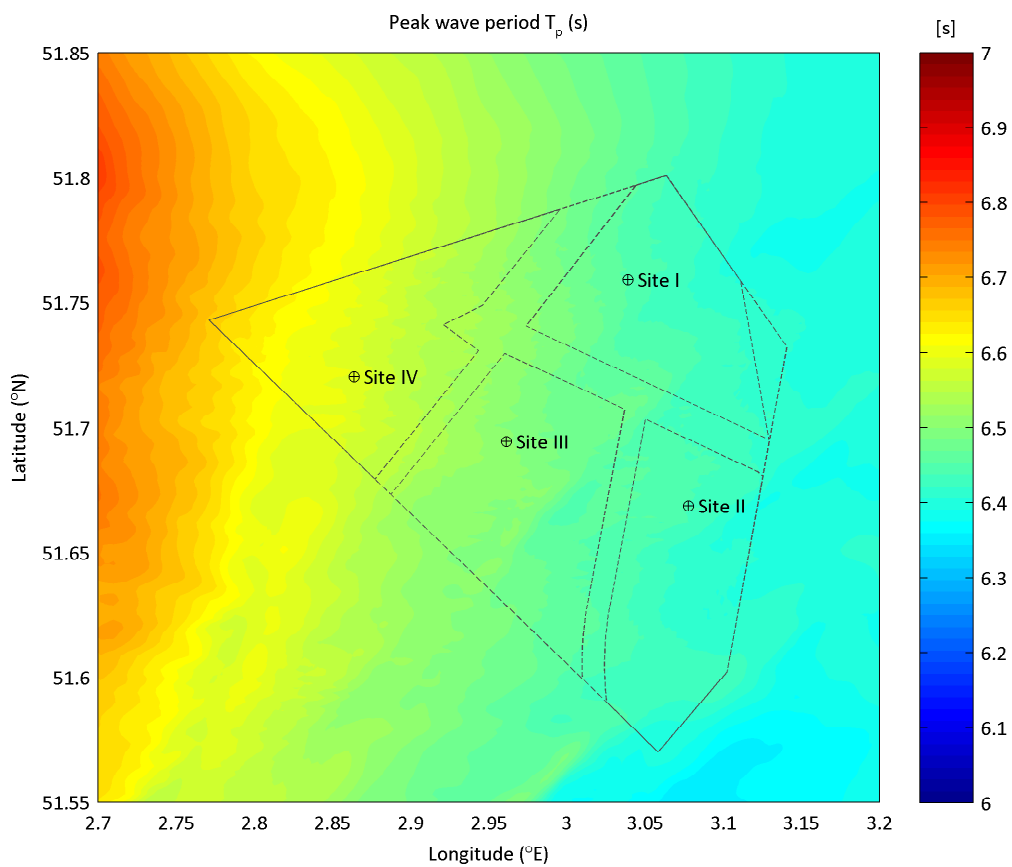
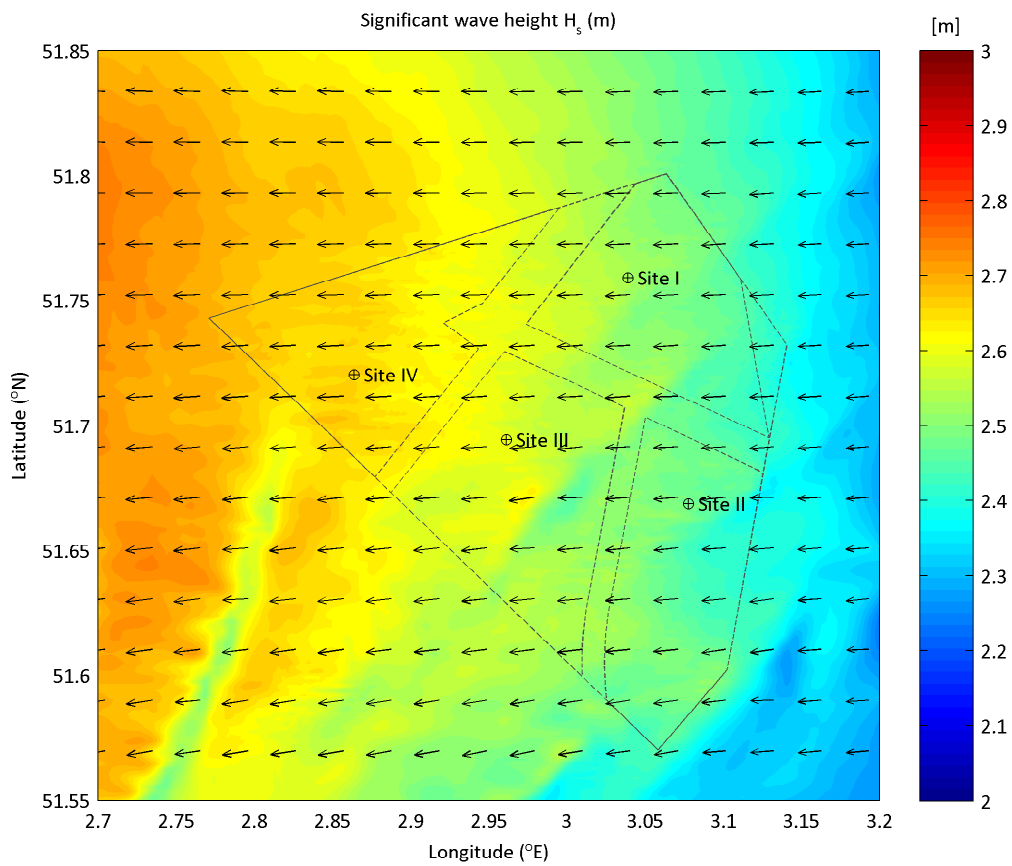
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.019



Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

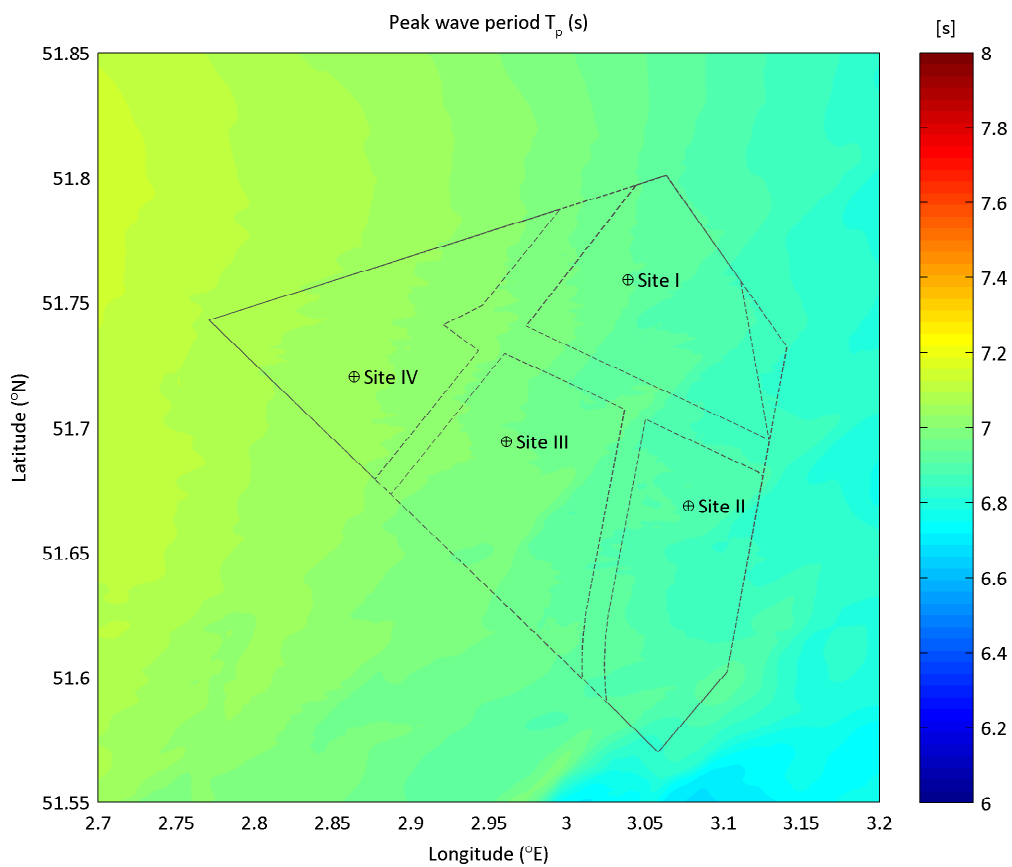
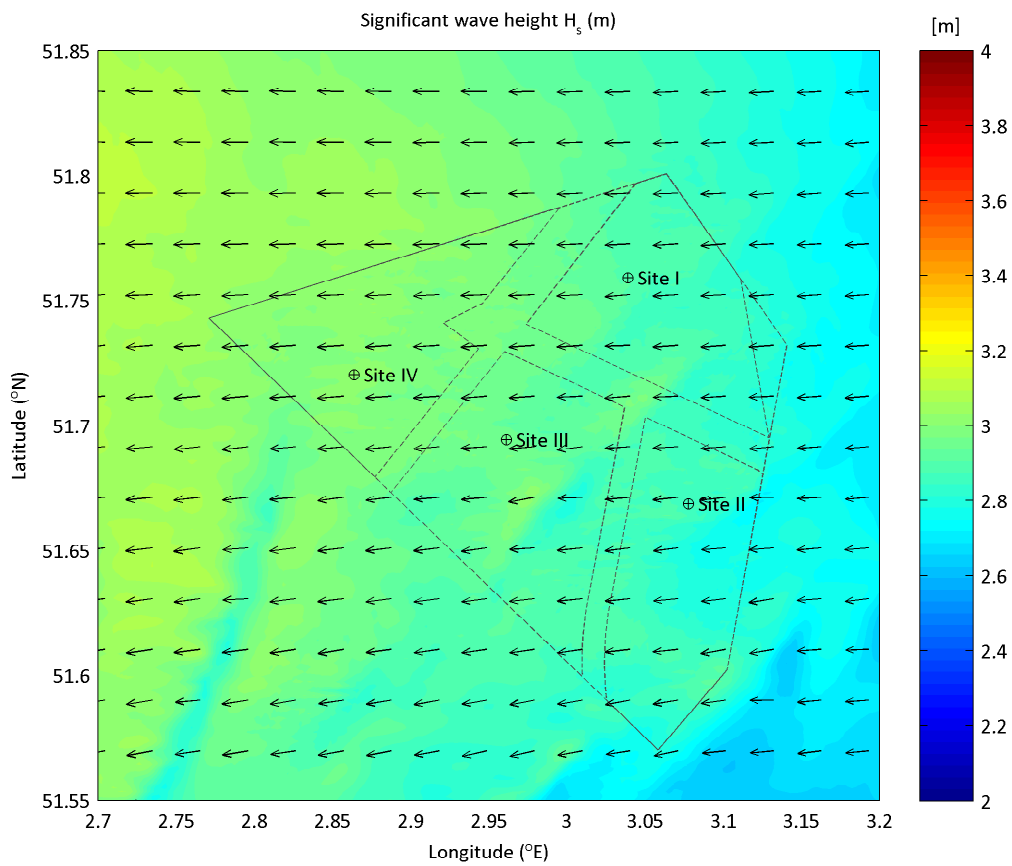
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.020



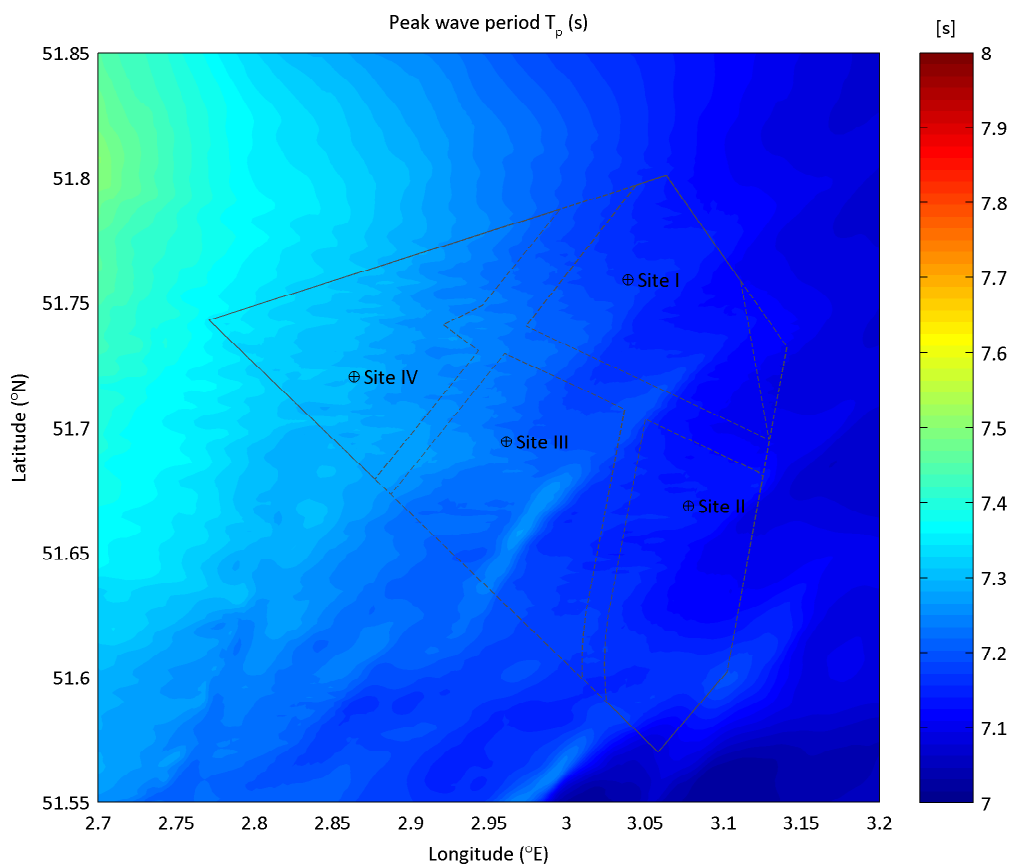
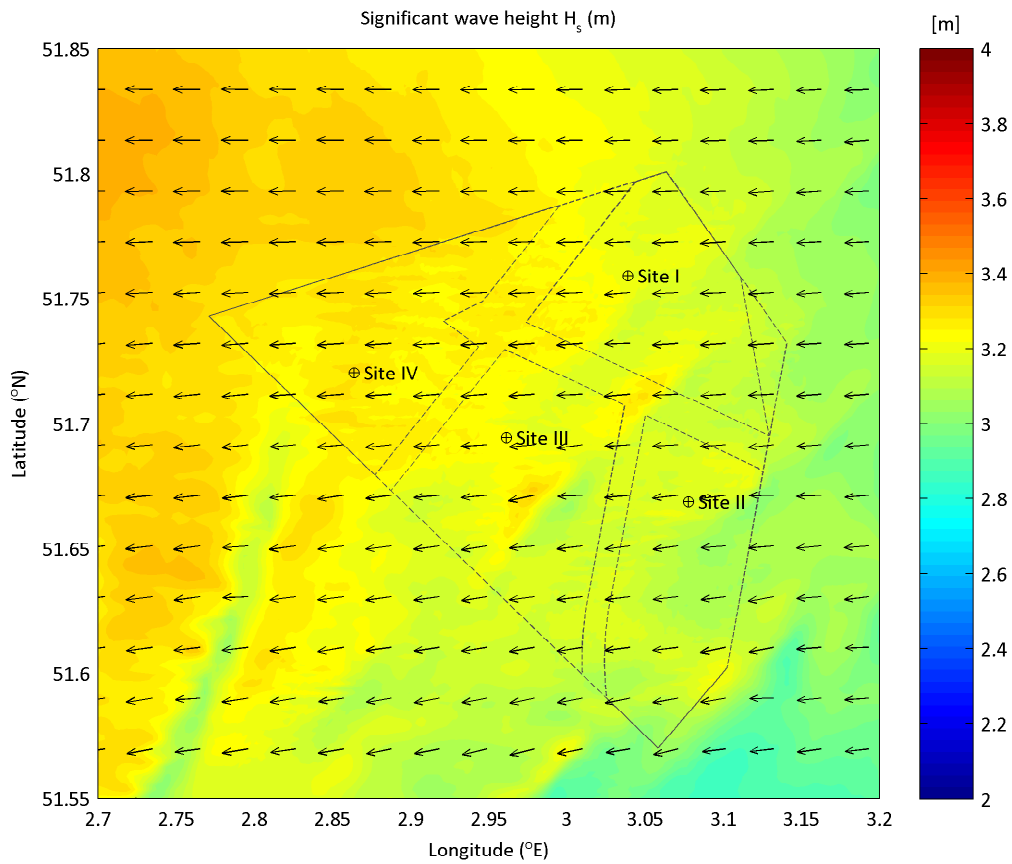
Extreme wave condition from Sector75 (°N) - 105 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

minimum still water level

App. B.4.021



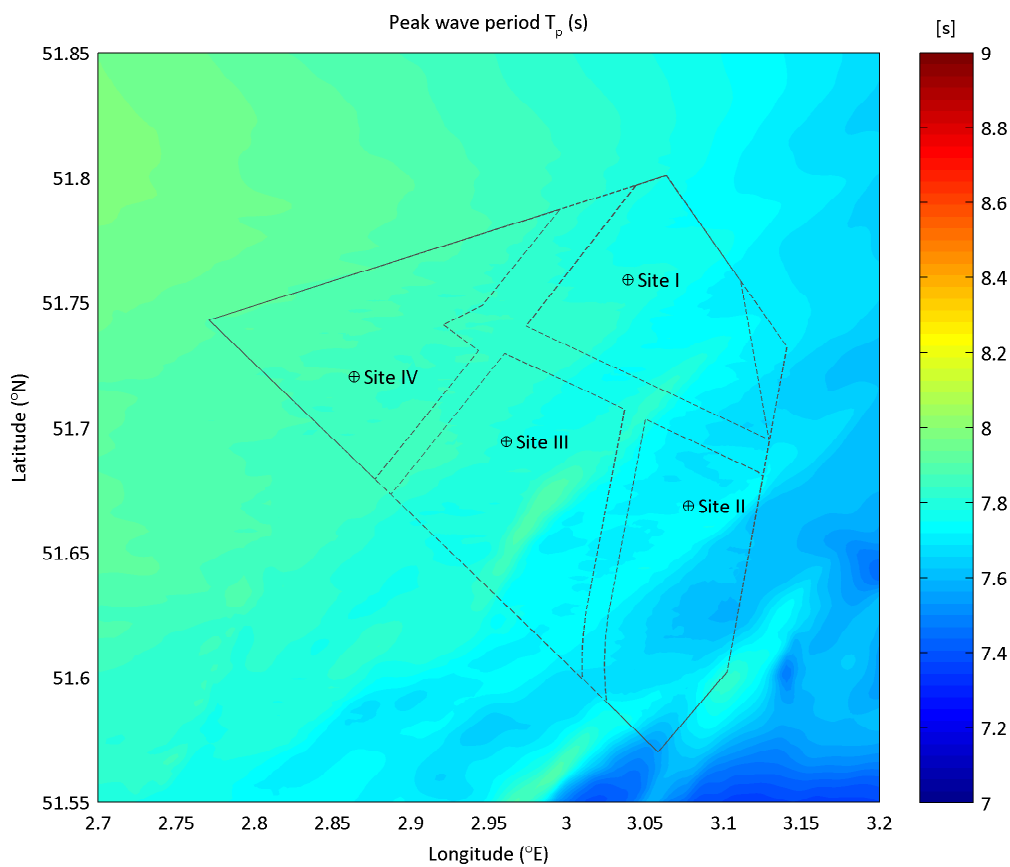
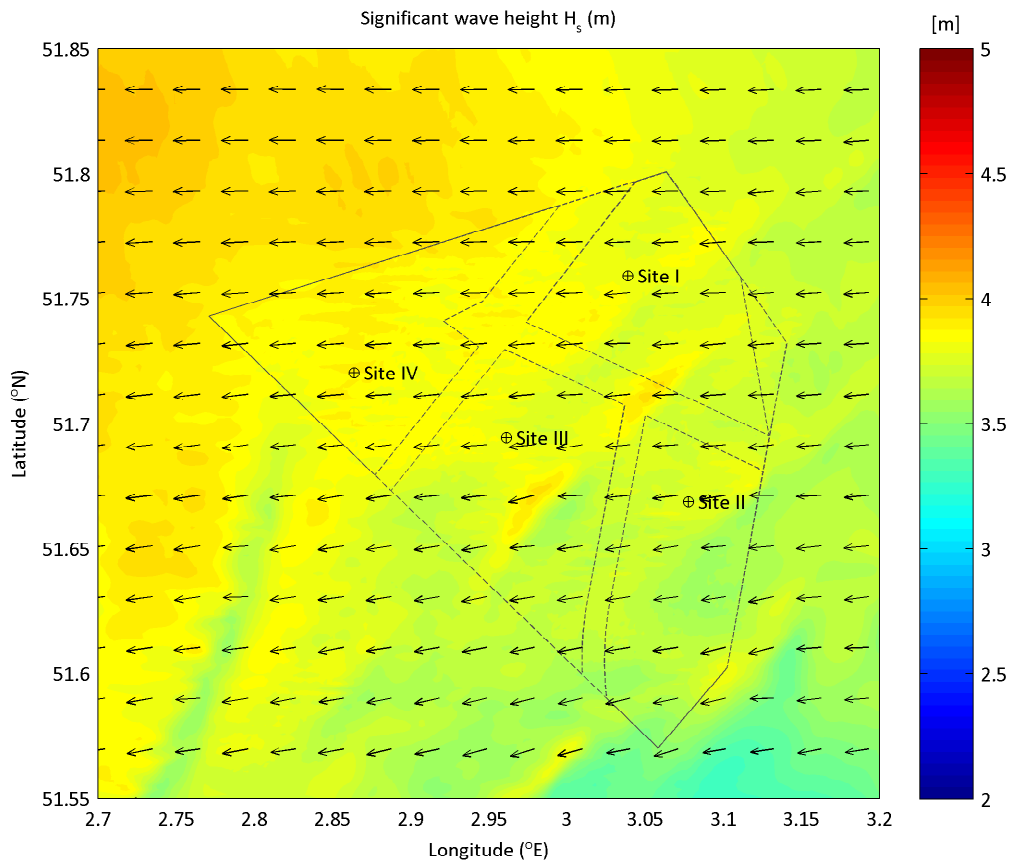
Extreme wave condition from Sector75 (°N) - 105 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.022



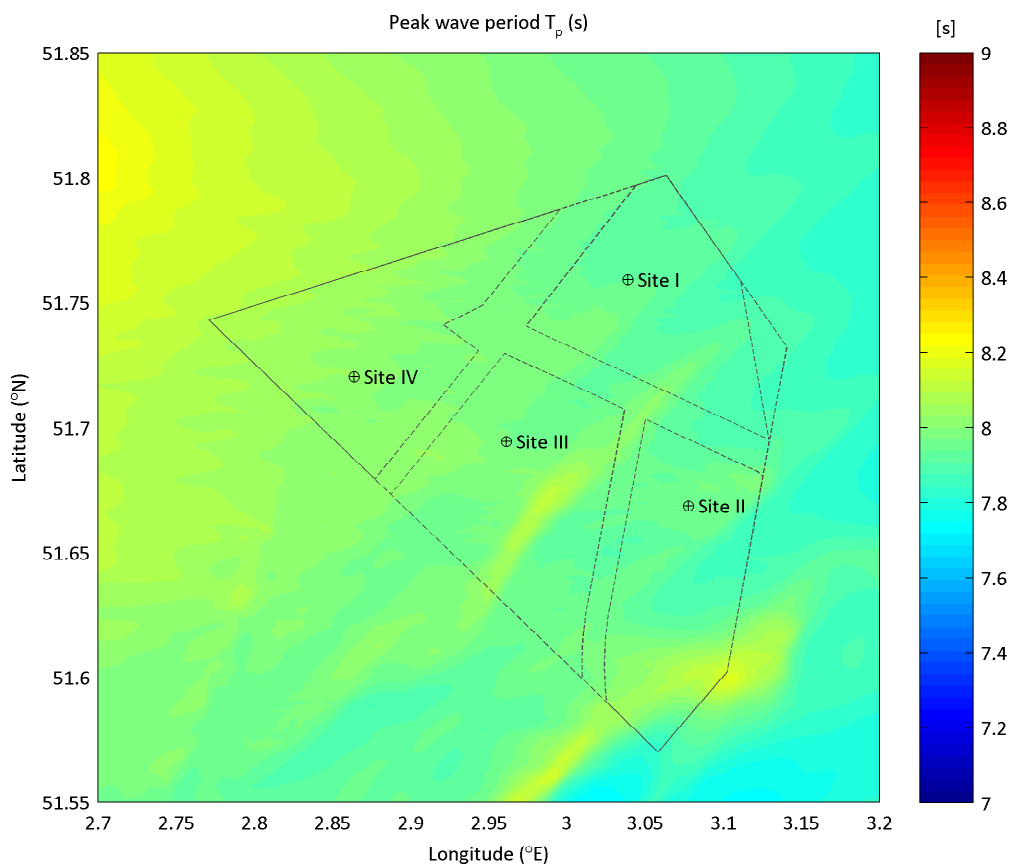
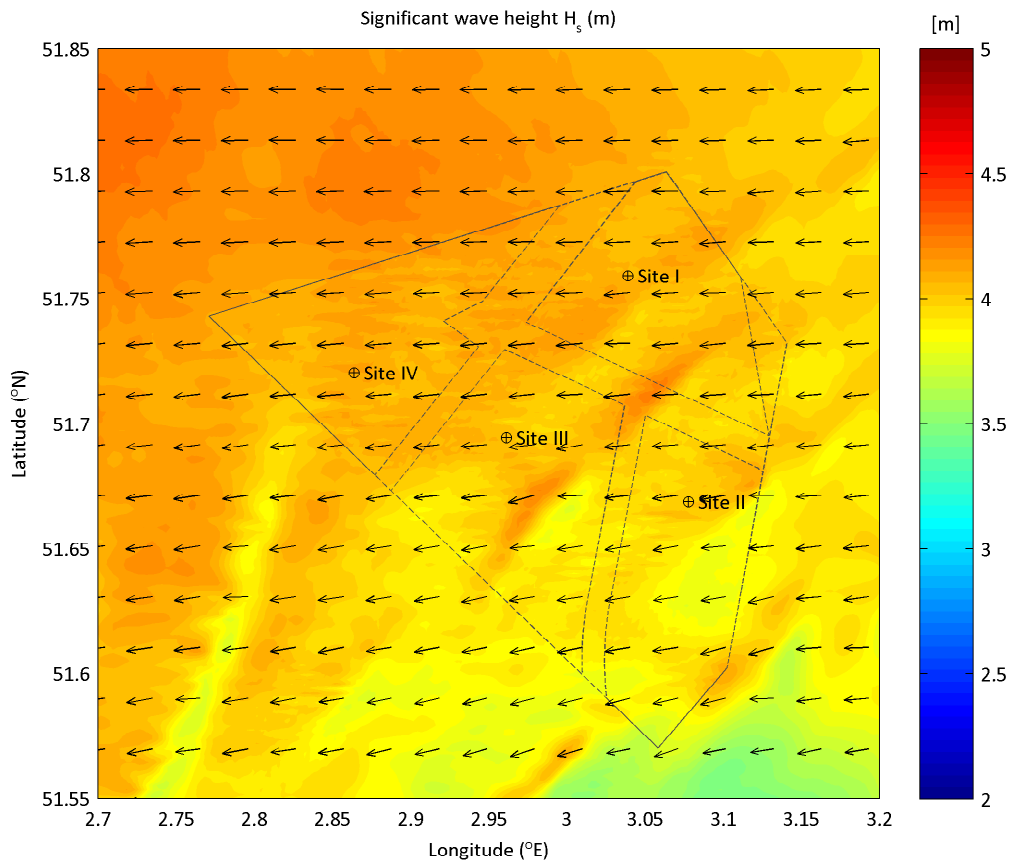
Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.023



Extreme wave condition from Sector75 ($^{\circ}$ N) - 105 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

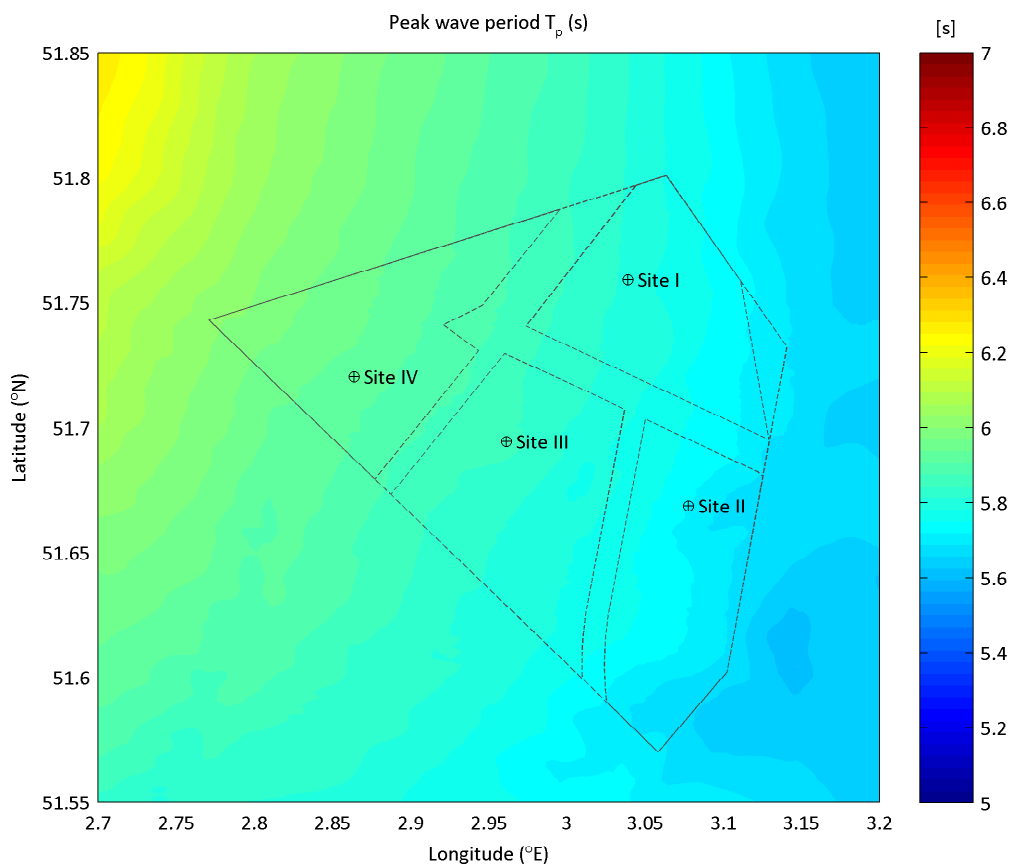
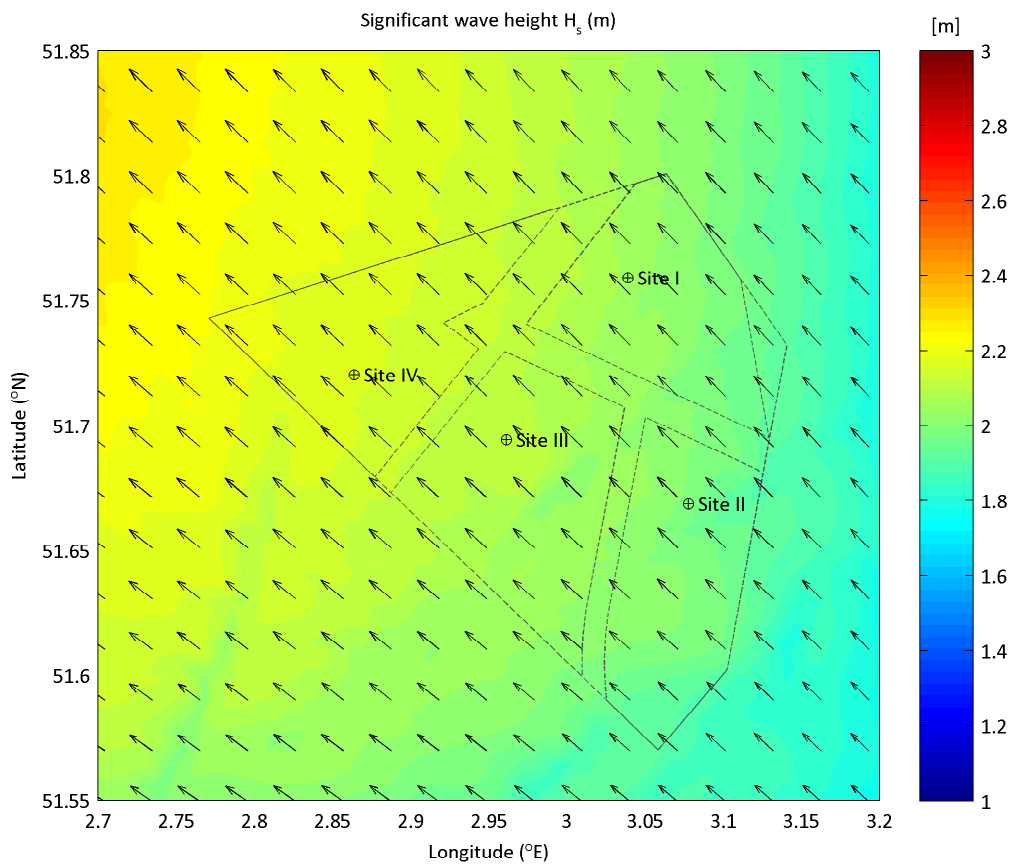
Nautical convention: coming from, clockwise from North

RP: 100yr

minimum still water level

Deltares

App. B.4.024



Extreme wave condition from Sector105 ($^{\circ}$ N) - 135 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

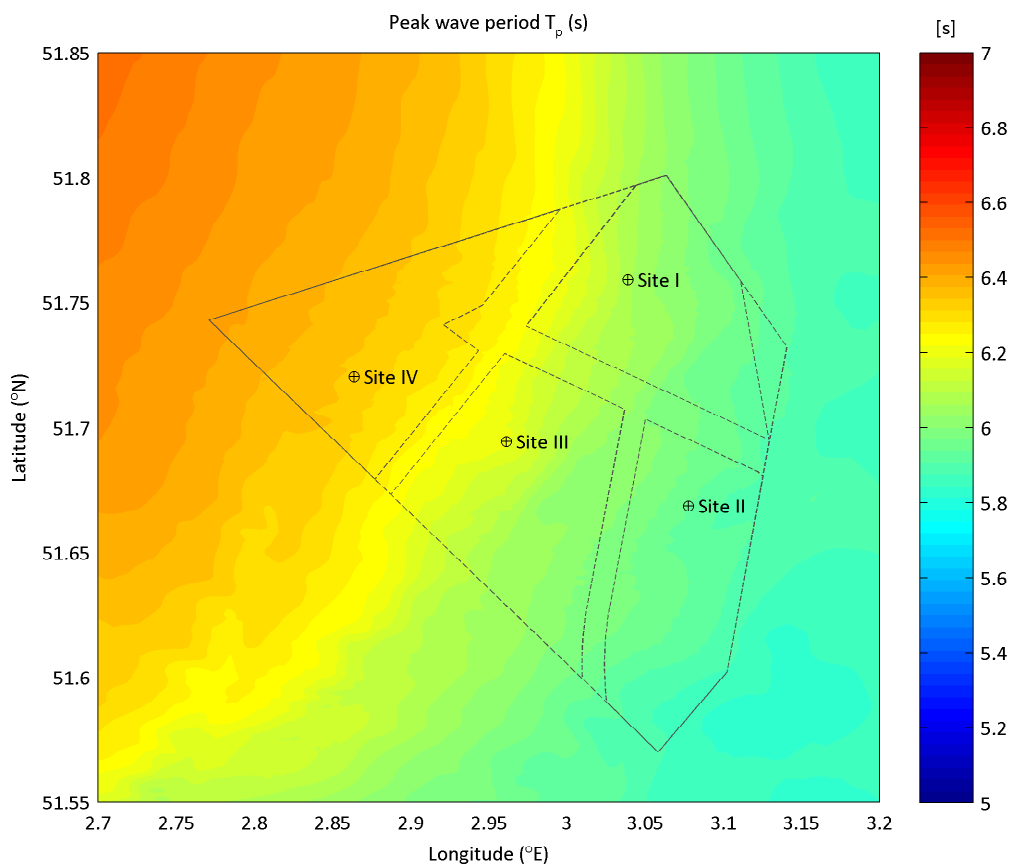
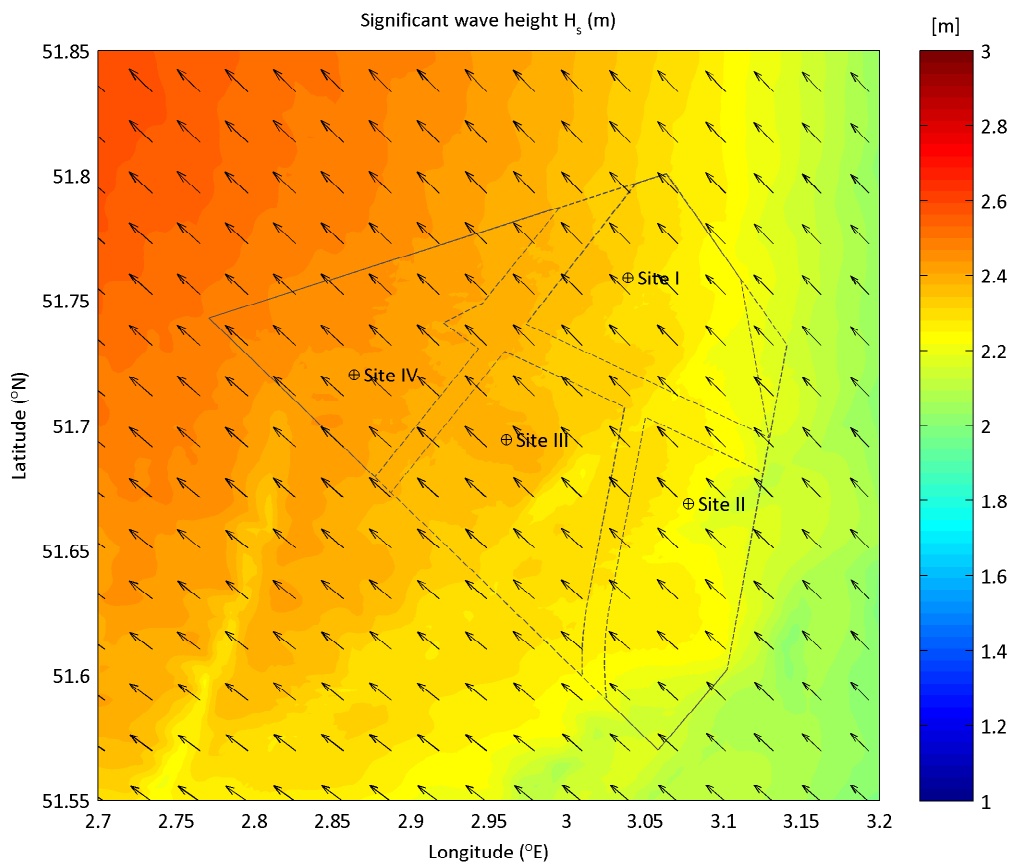
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.025



Extreme wave condition from Sector105 ($^{\circ}$ N) - 135 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

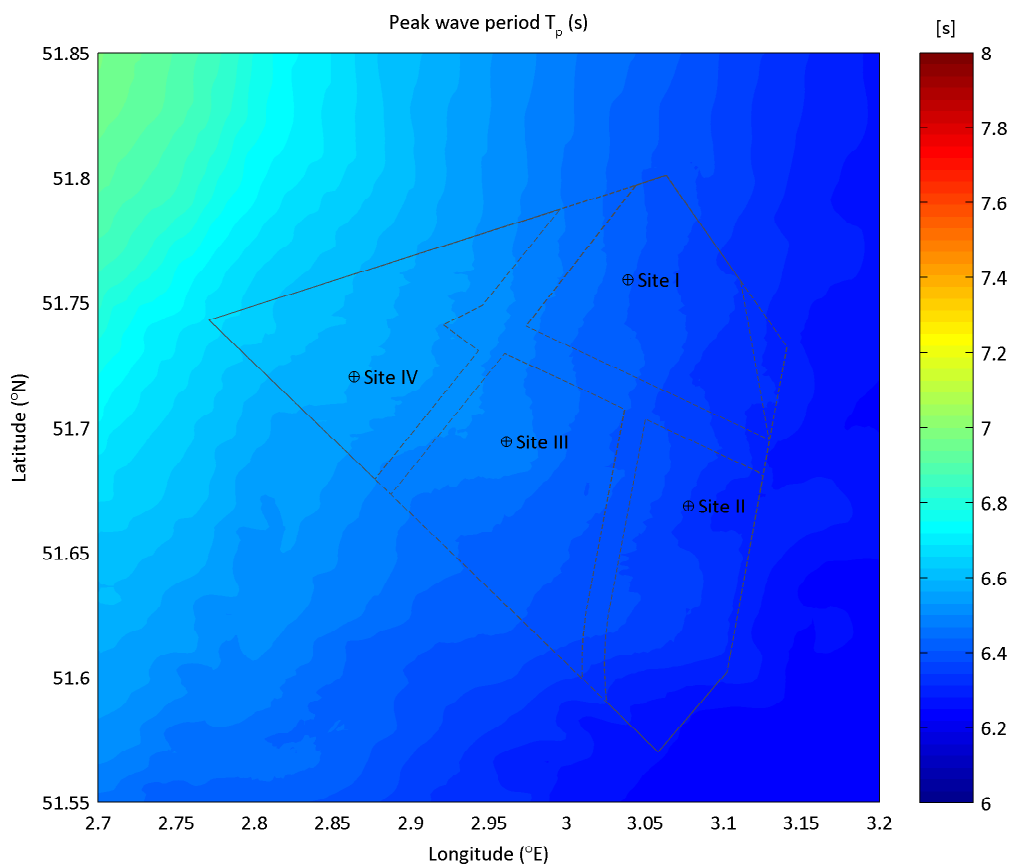
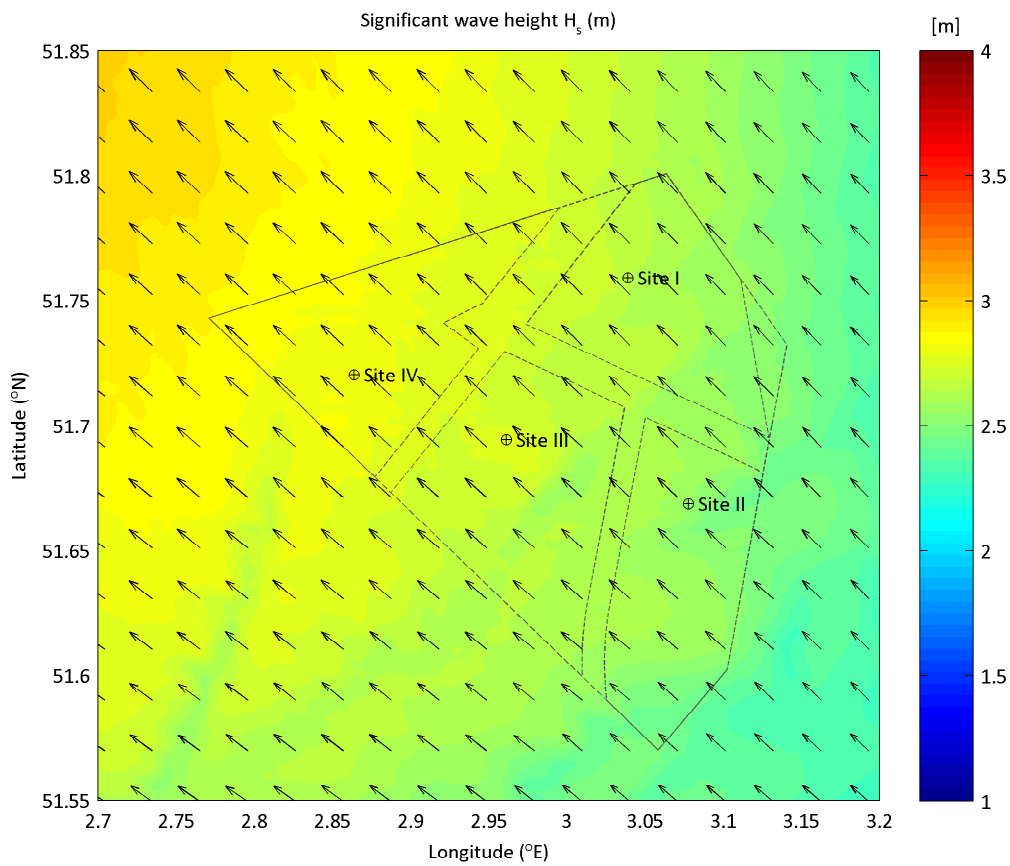
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.026



Extreme wave condition from Sector105 (°N) - 135 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

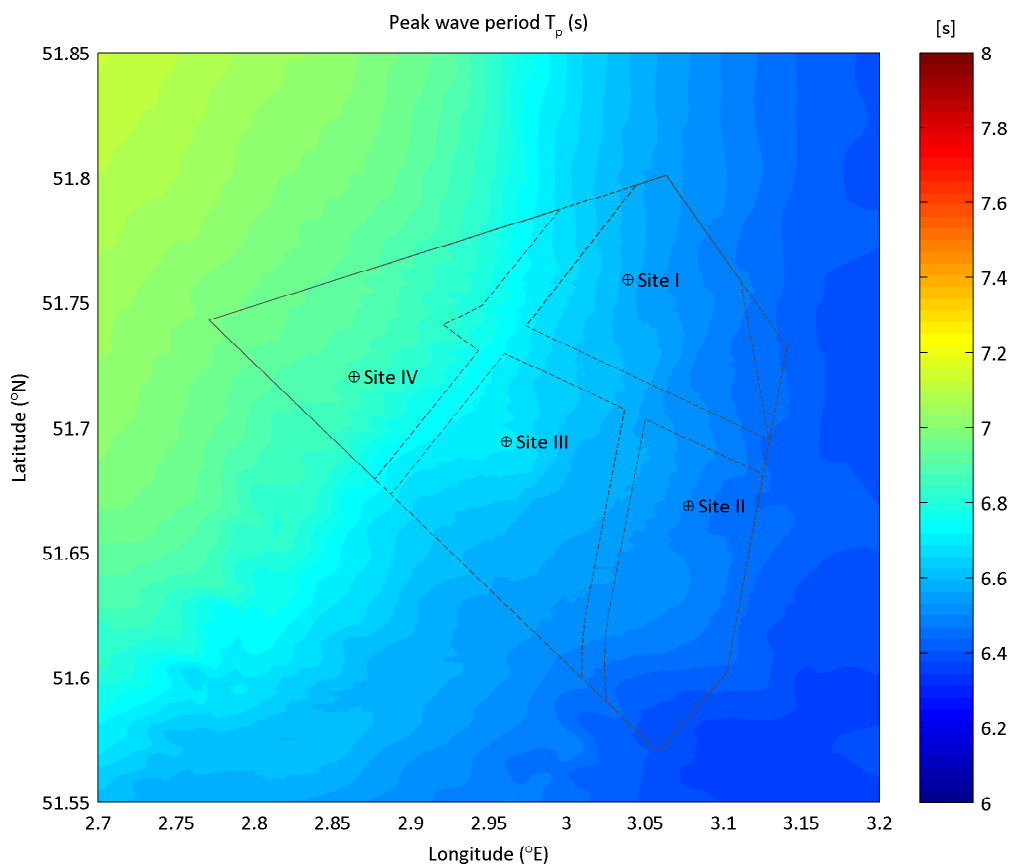
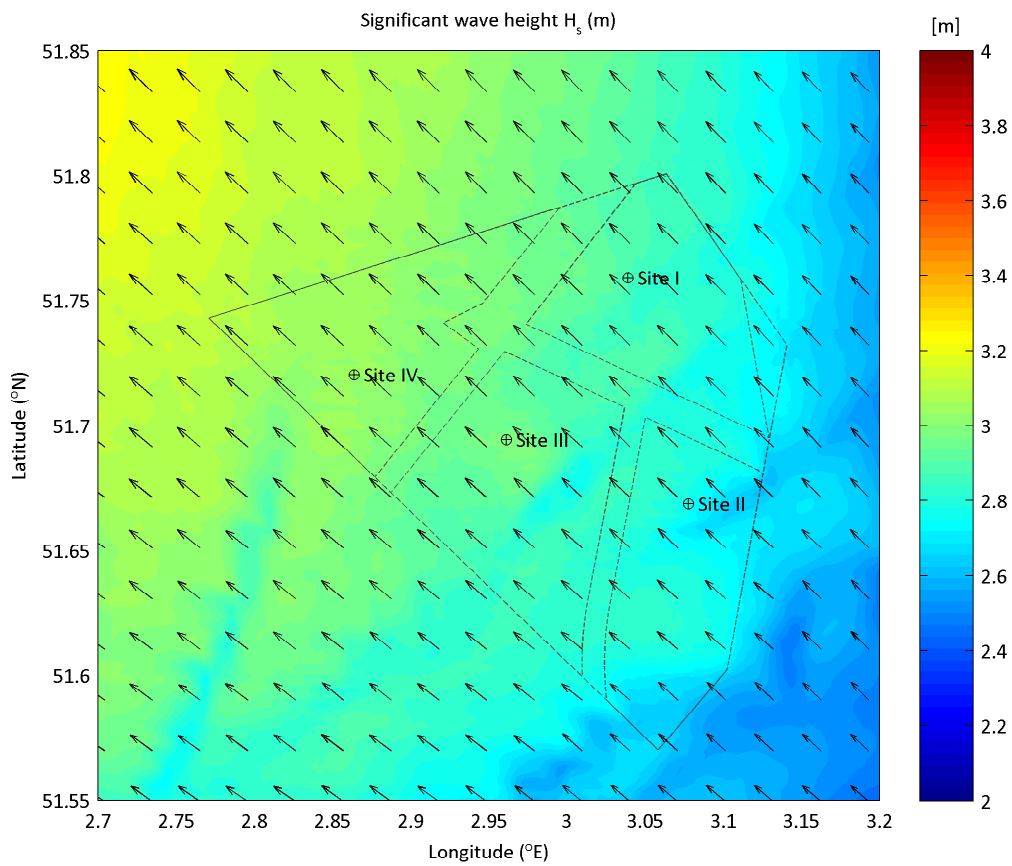
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.027



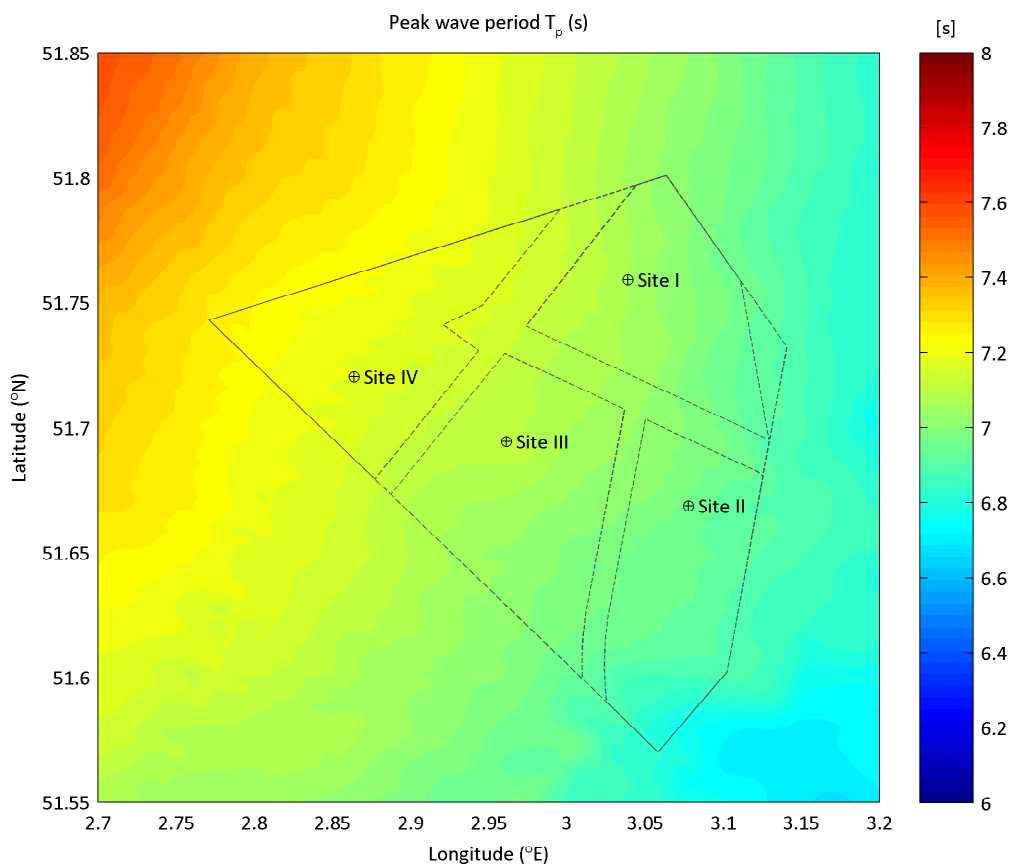
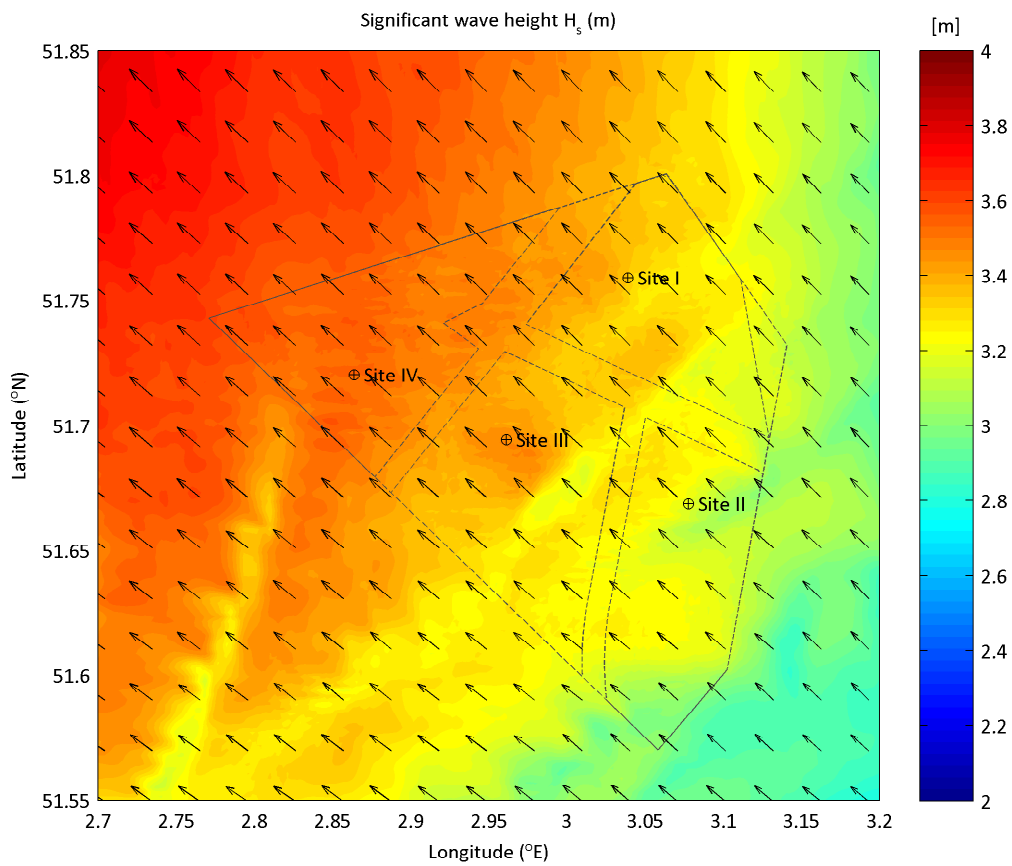
Extreme wave condition from Sector105 (°N) - 135 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.028



Extreme wave condition from Sector105 (°N) - 135 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

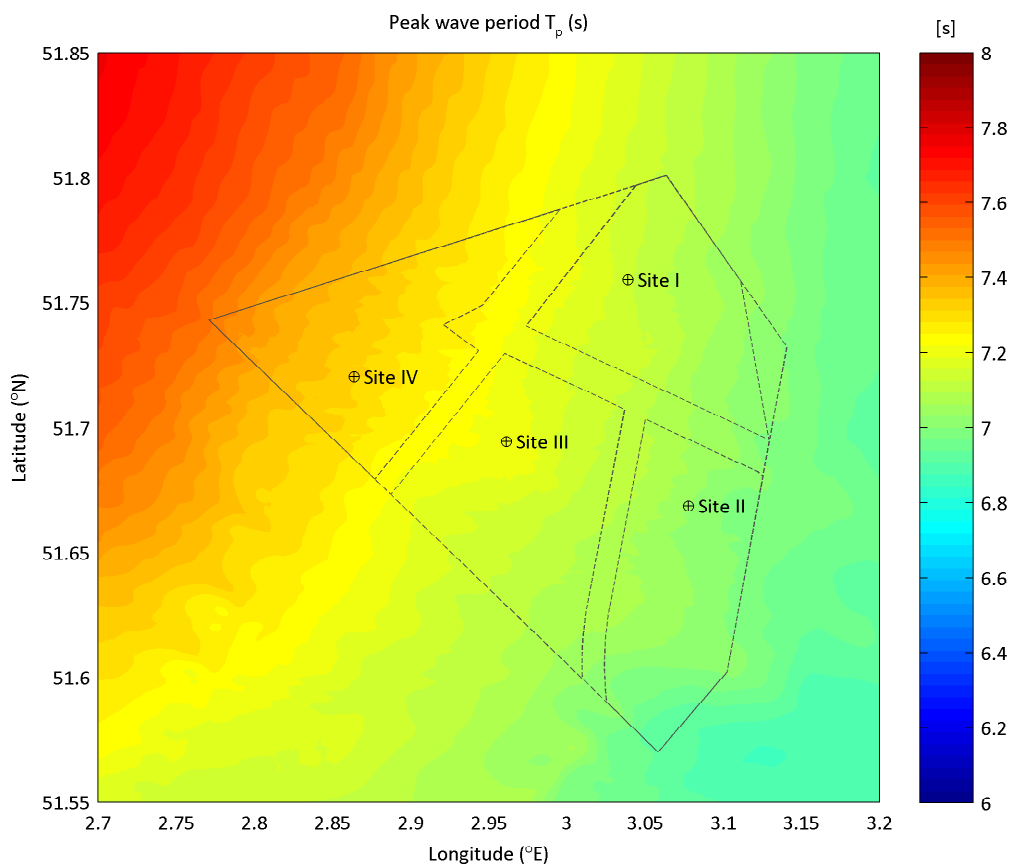
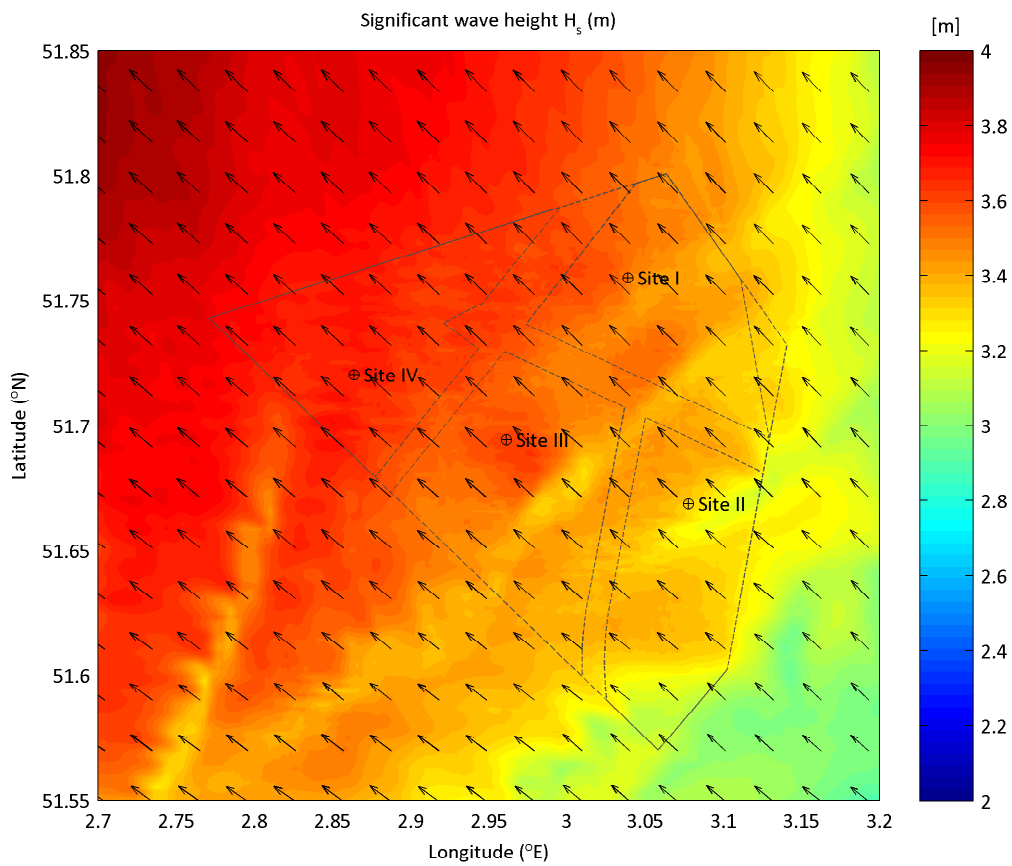
Nautical convention: coming from, clockwise from North

RP: 50yr

minimum still water level

Deltares

App. B.4.029



Extreme wave condition from Sector105 (°N) - 135 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

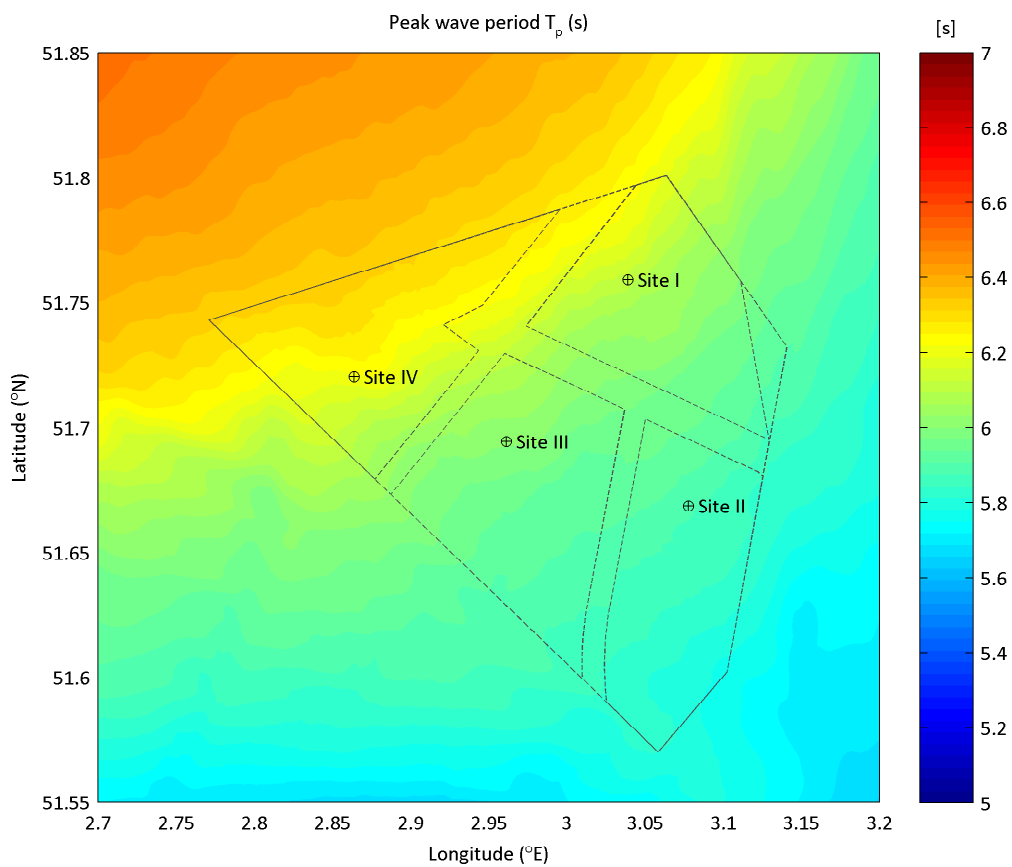
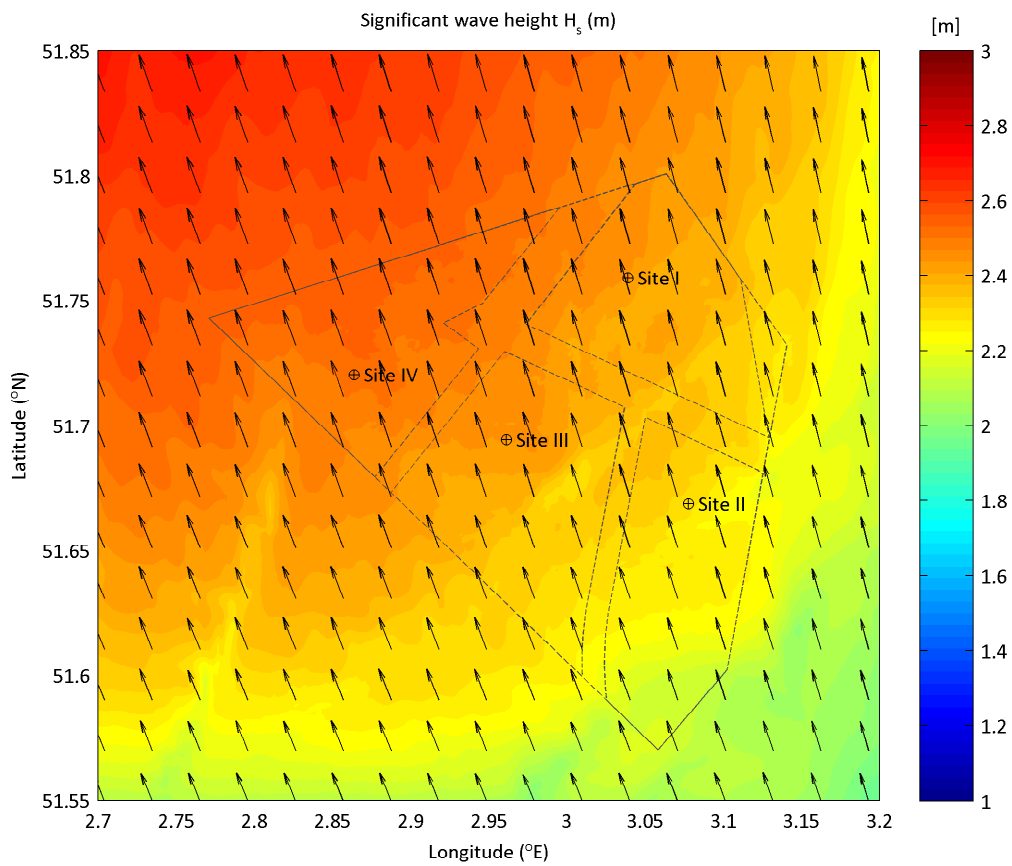
Nautical convention: coming from, clockwise from North

RP: 100yr

minimum still water level

Deltares

App. B.4.030



Extreme wave condition from Sector135 ($^{\circ}$ N) - 165 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

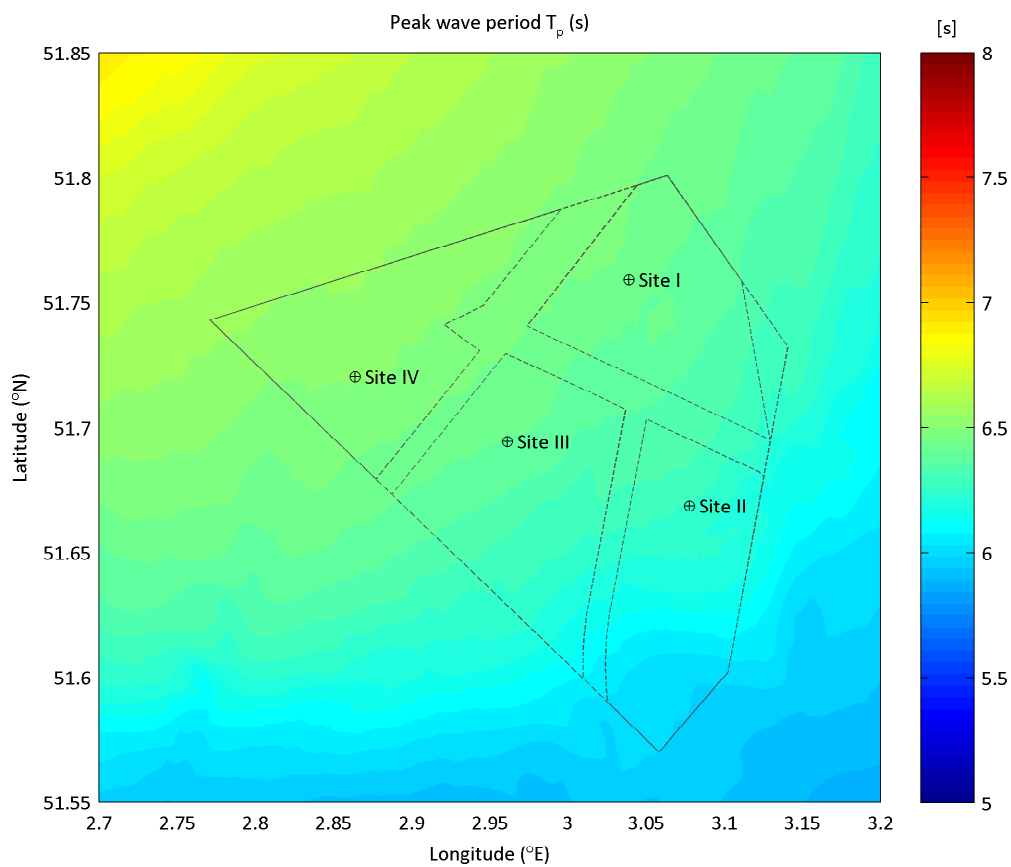
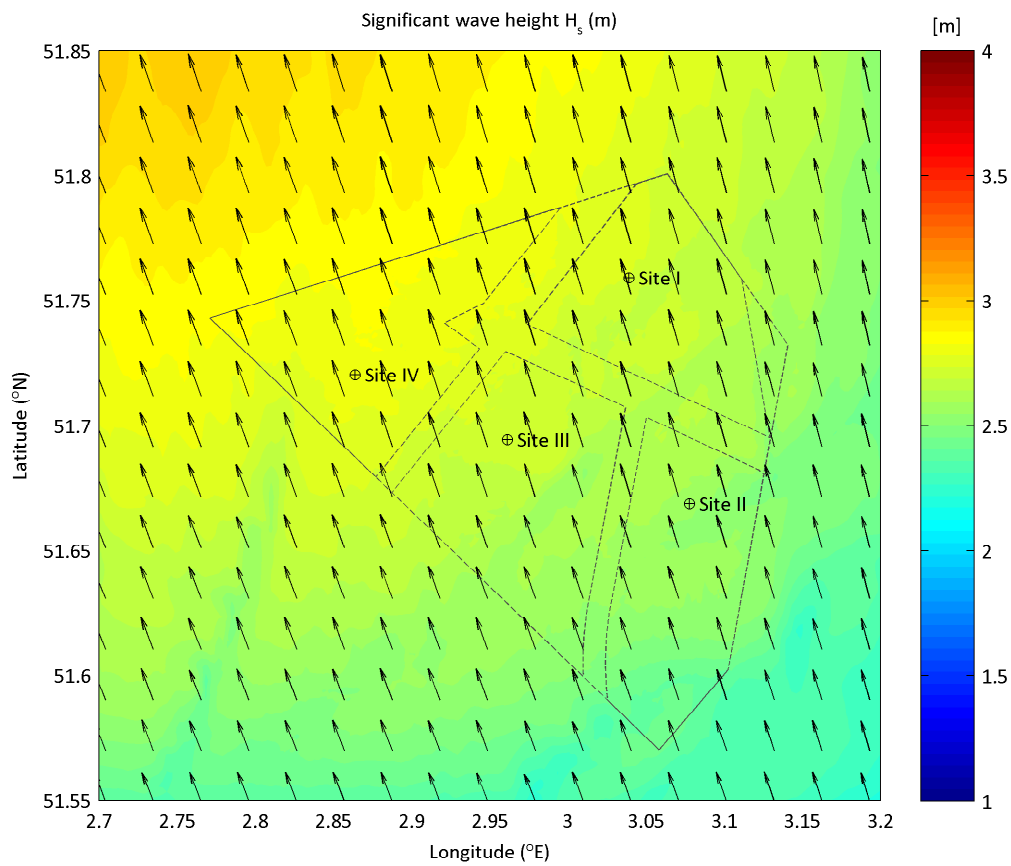
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.031



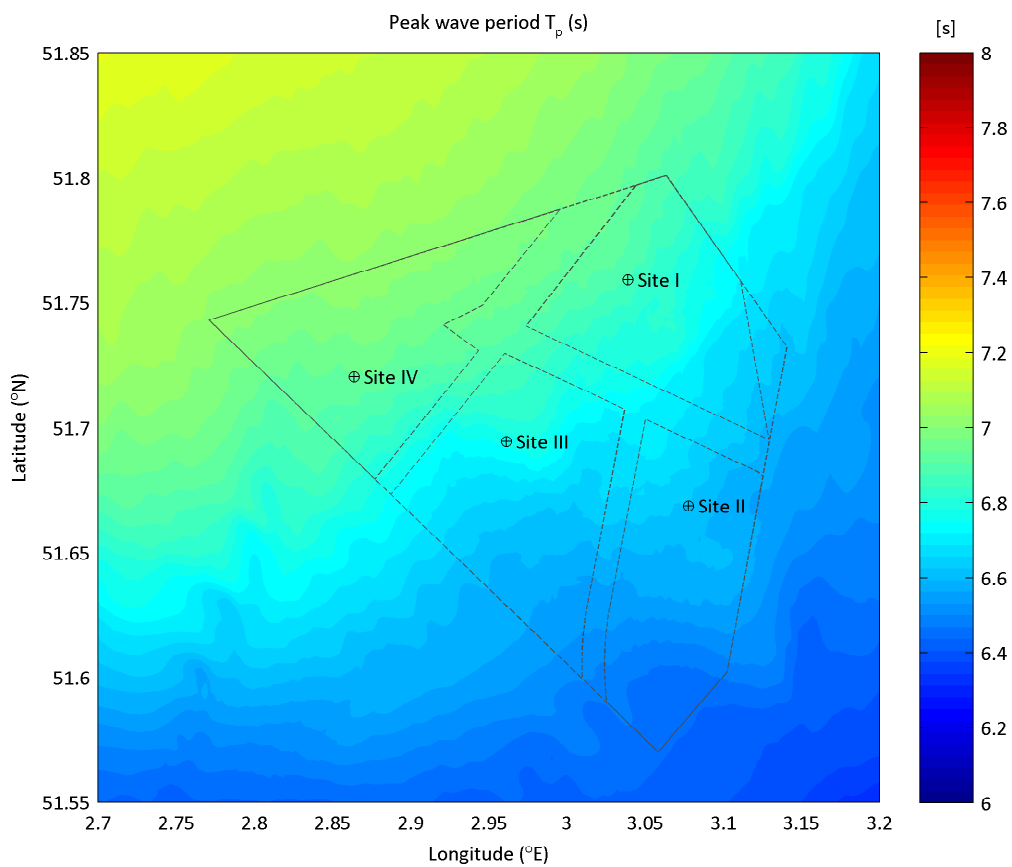
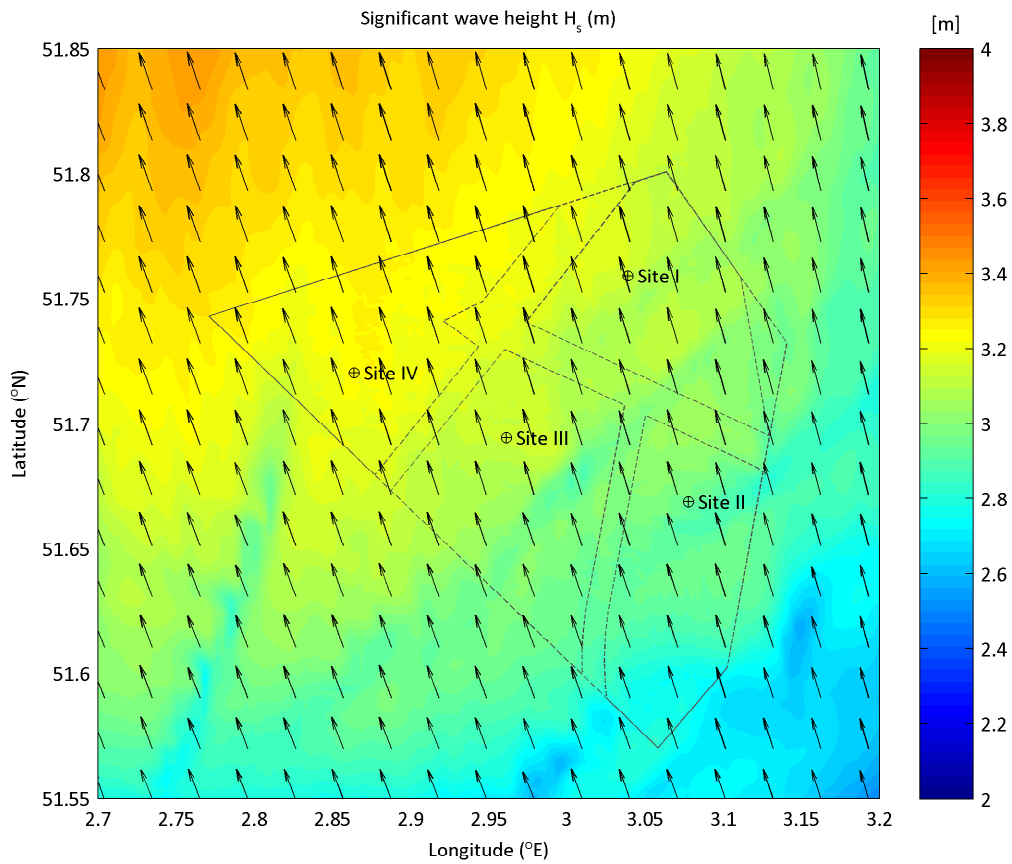
Extreme wave condition from Sector135 ($^{\circ}$ N) - 165 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

minimum still water level

App. B.4.032



Extreme wave condition from Sector135 ($^{\circ}$ N) - 165 ($^{\circ}$ N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

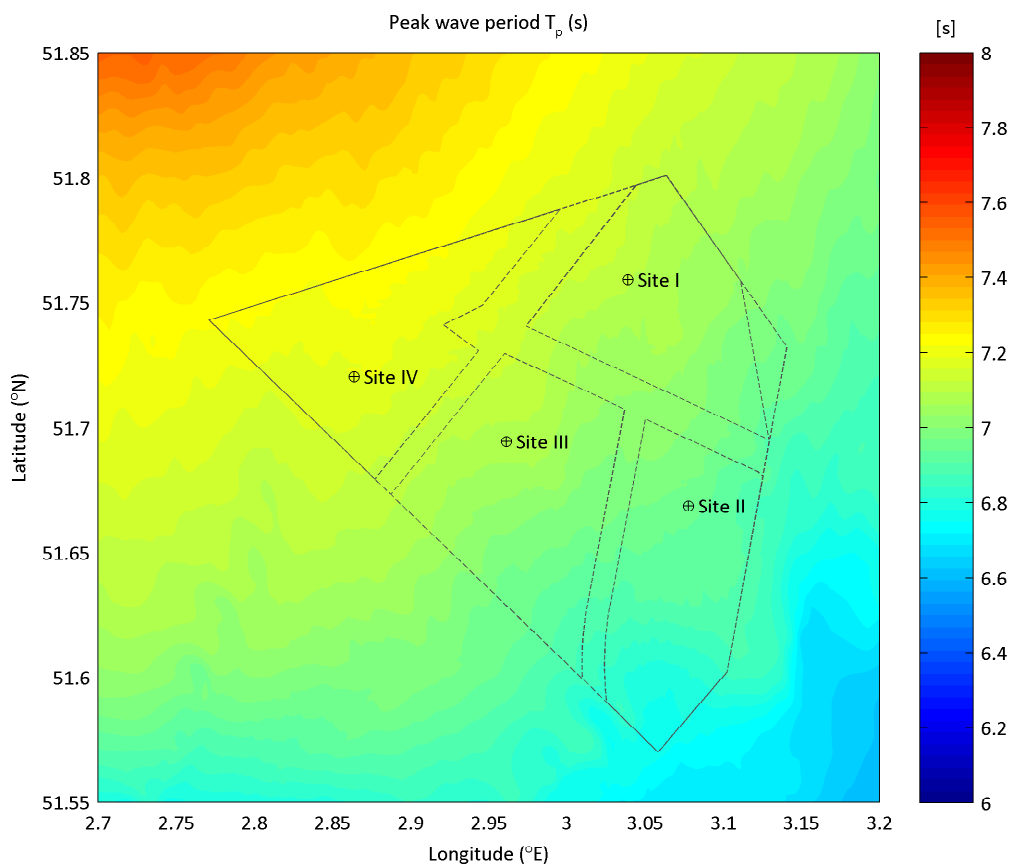
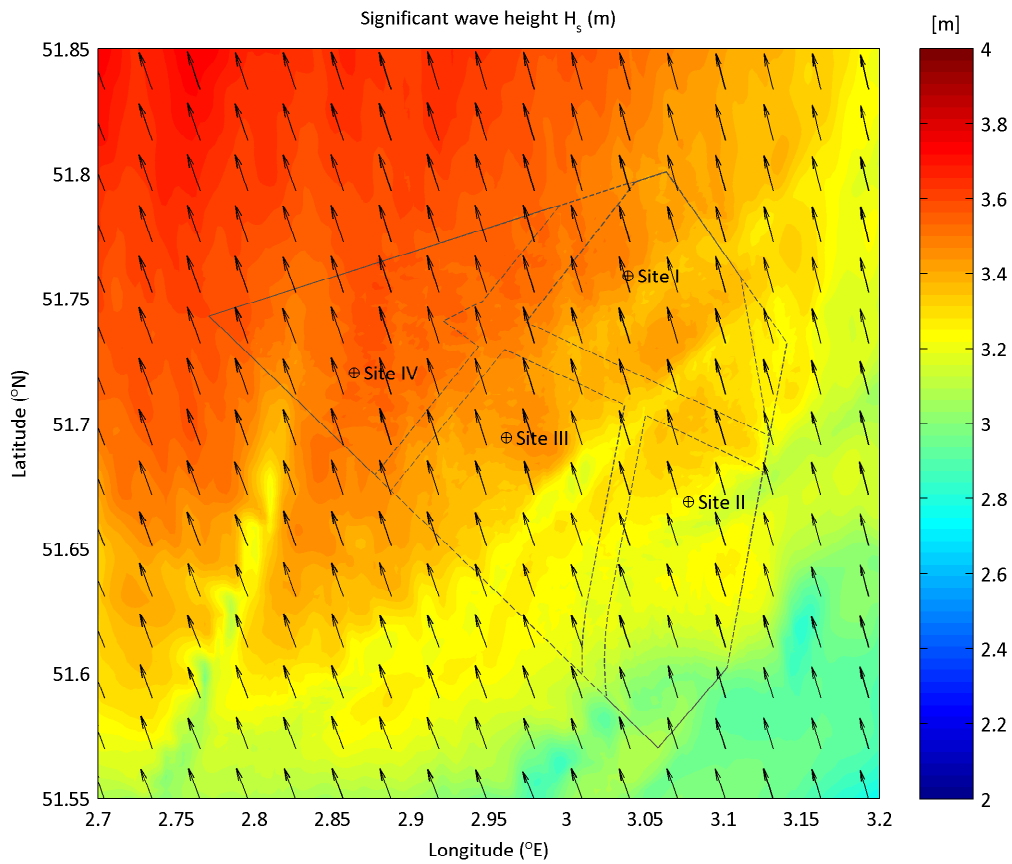
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.033



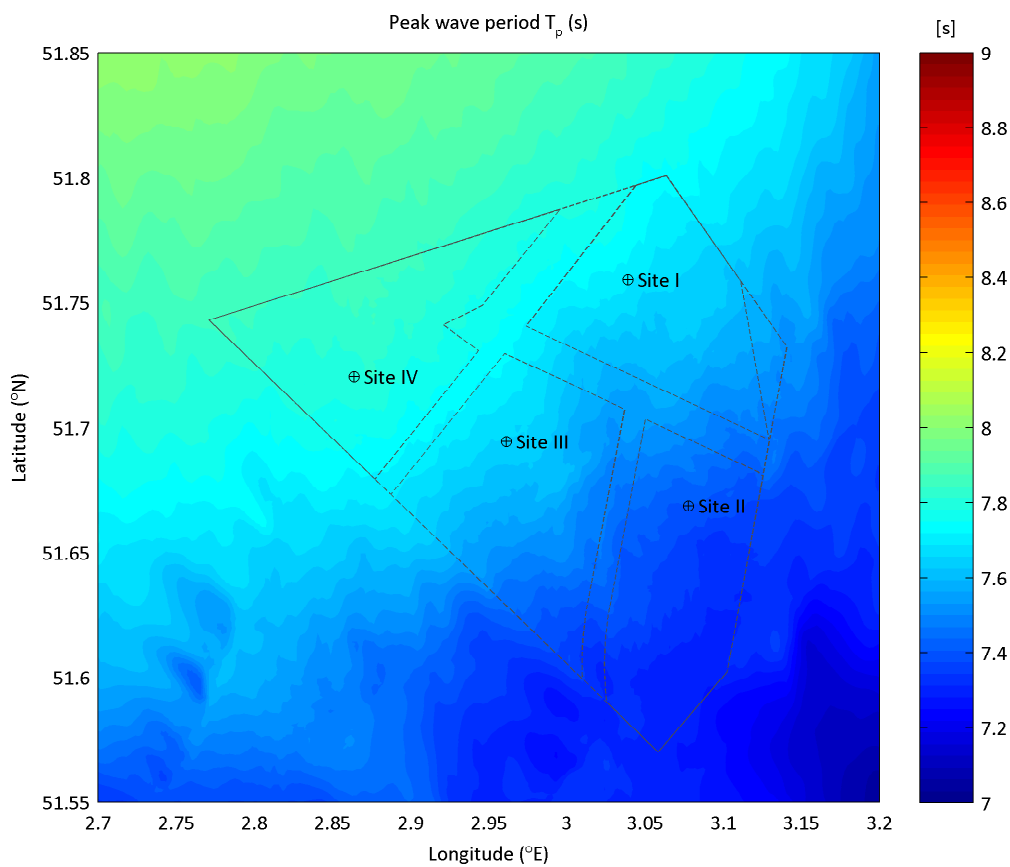
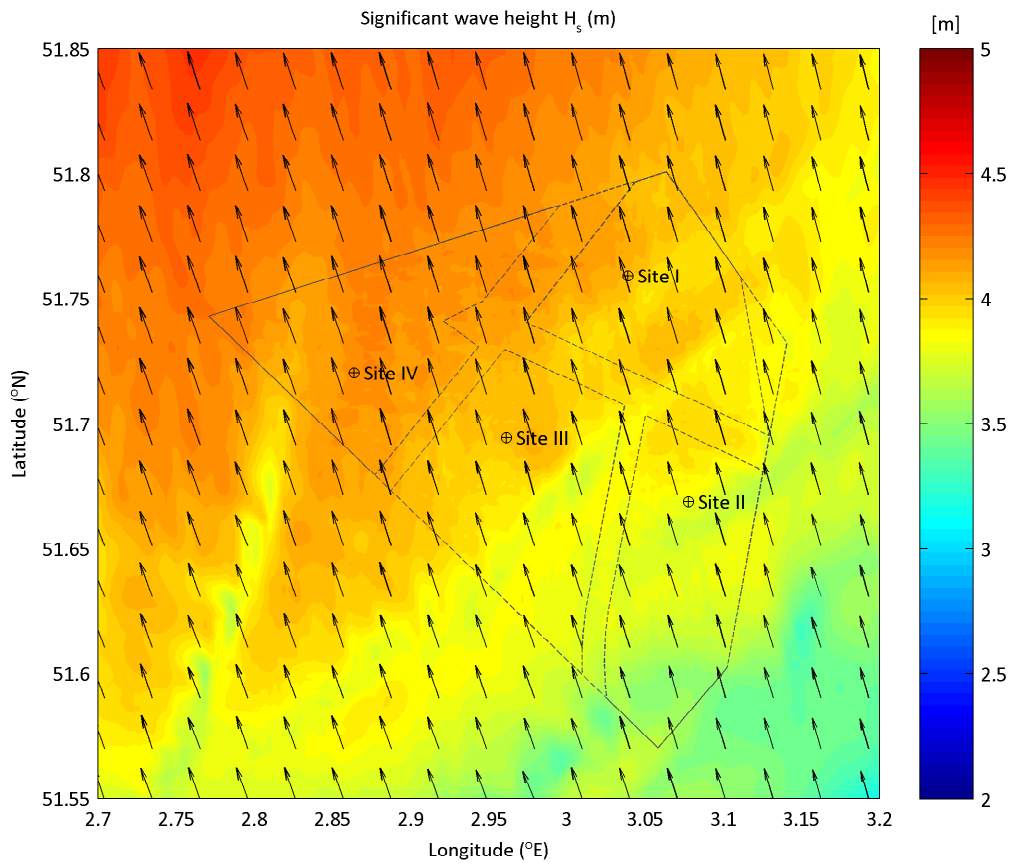
Extreme wave condition from Sector135 (°N) - 165 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.034



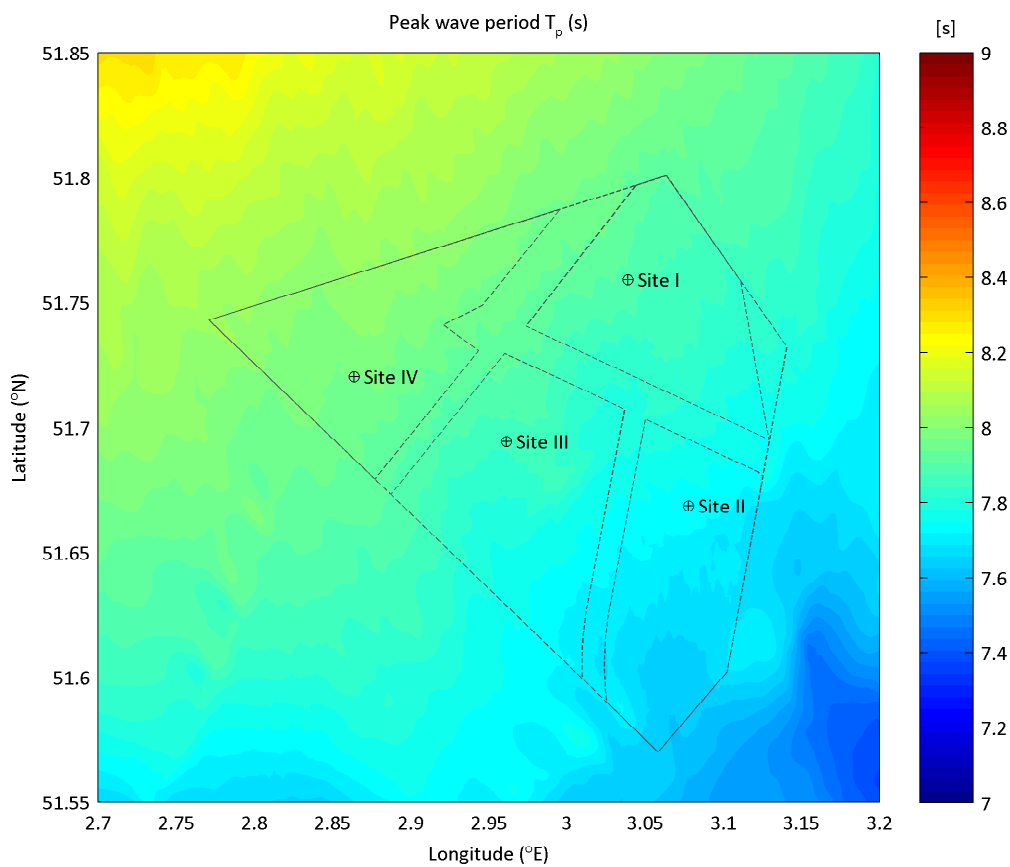
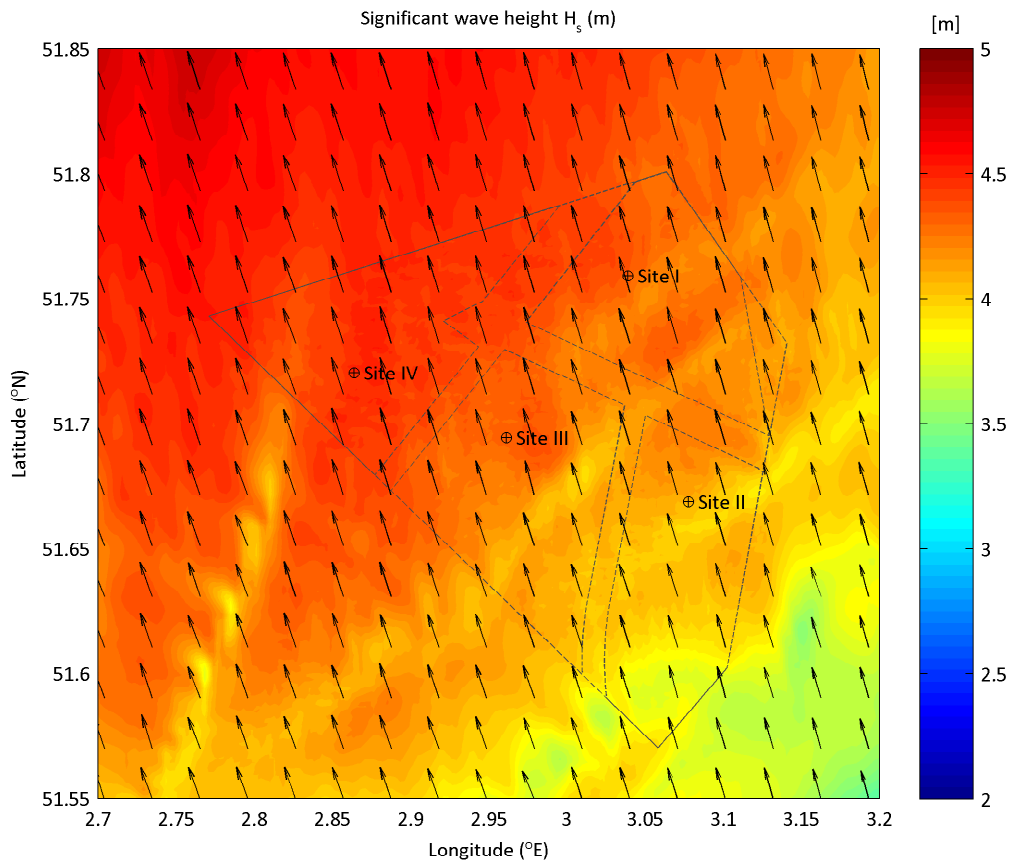
Extreme wave condition from Sector135 ($^{\circ}$ N) - 165 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.035



Extreme wave condition from Sector135 (°N) - 165 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

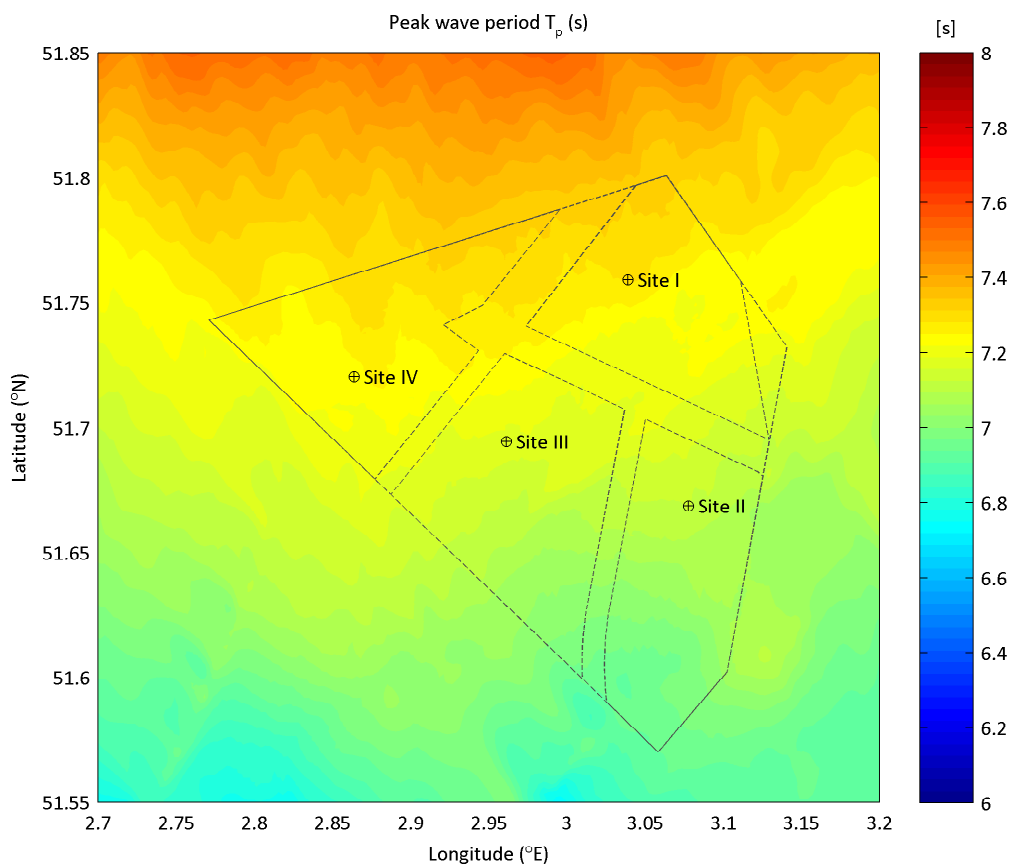
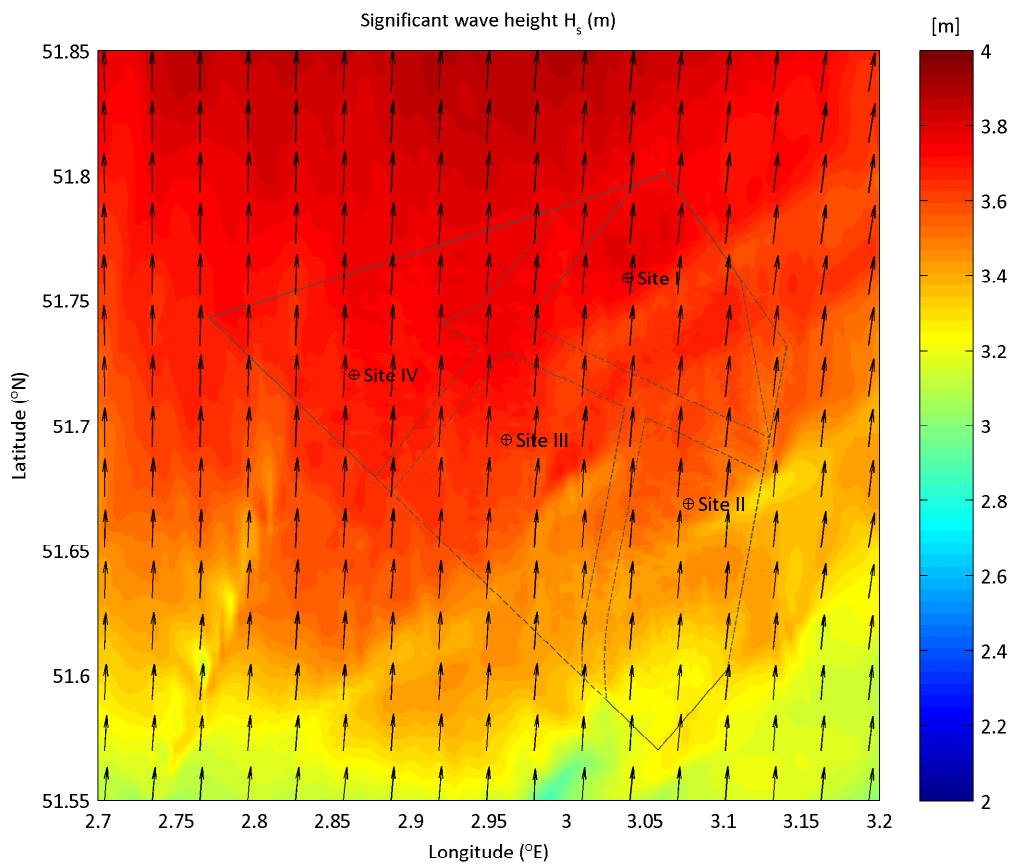
Nautical convention: coming from, clockwise from North

RP: 100yr

minimum still water level

Deltares

App. B.4.036



Extreme wave condition from Sector165 ($^{\circ}$ N) - 195 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

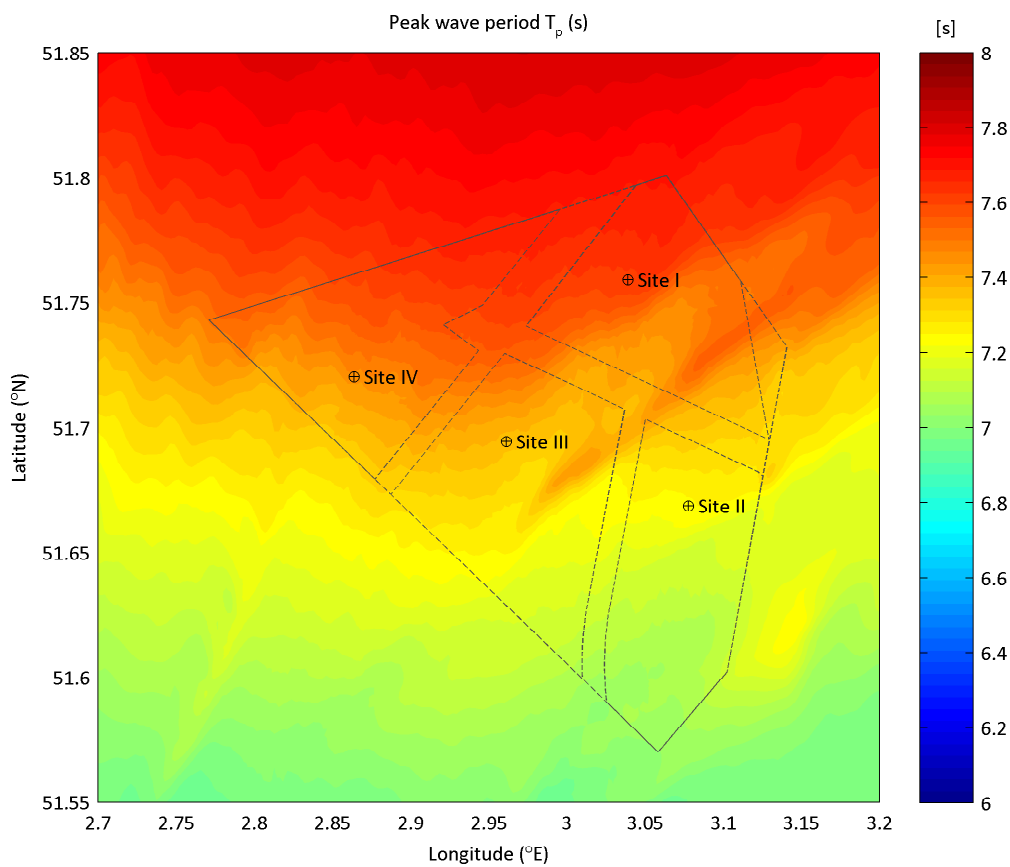
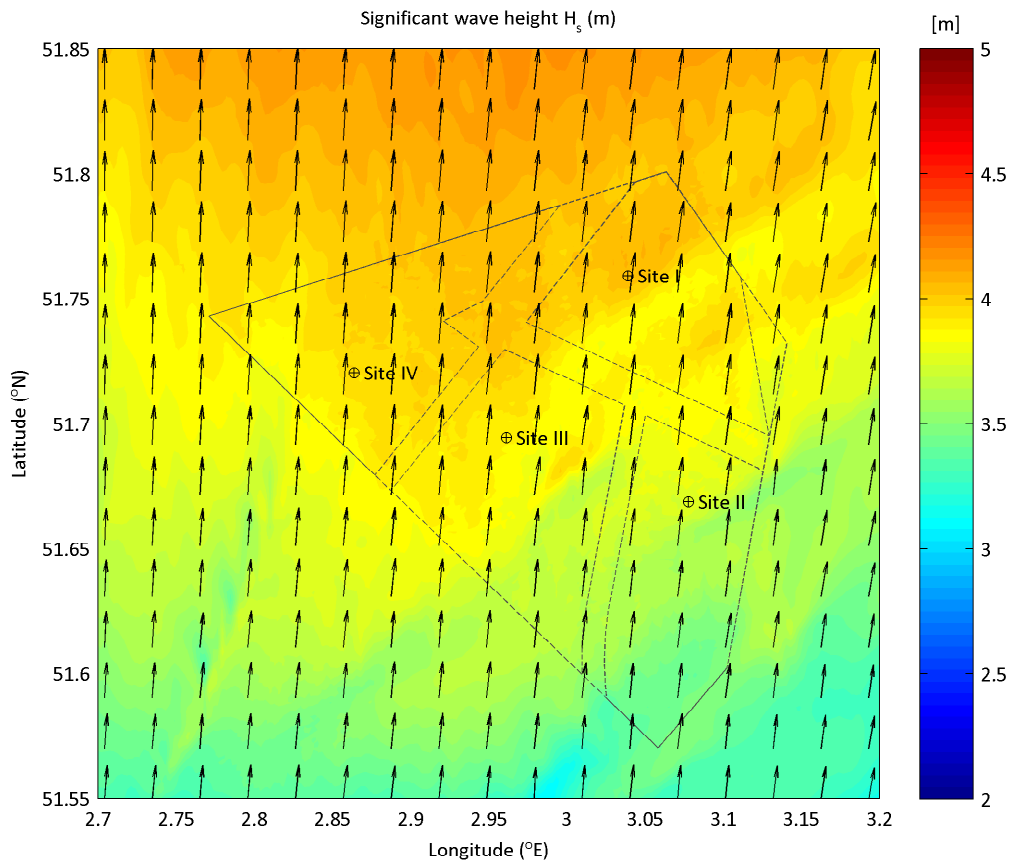
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.037



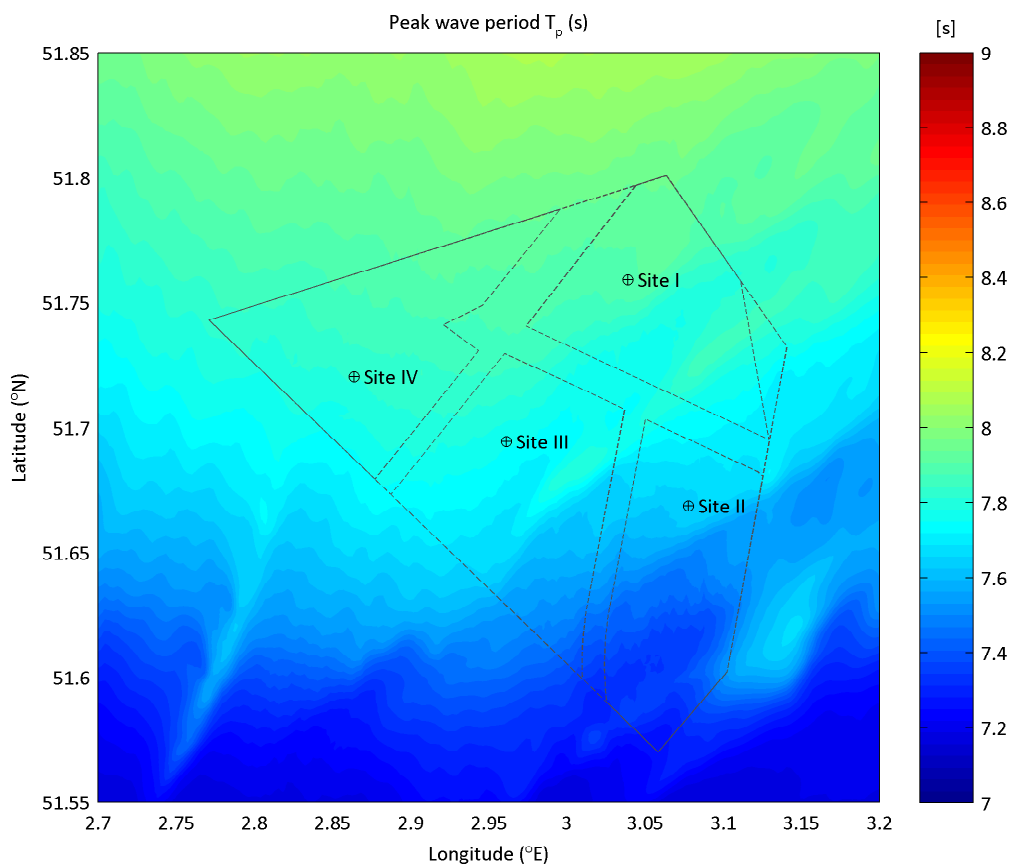
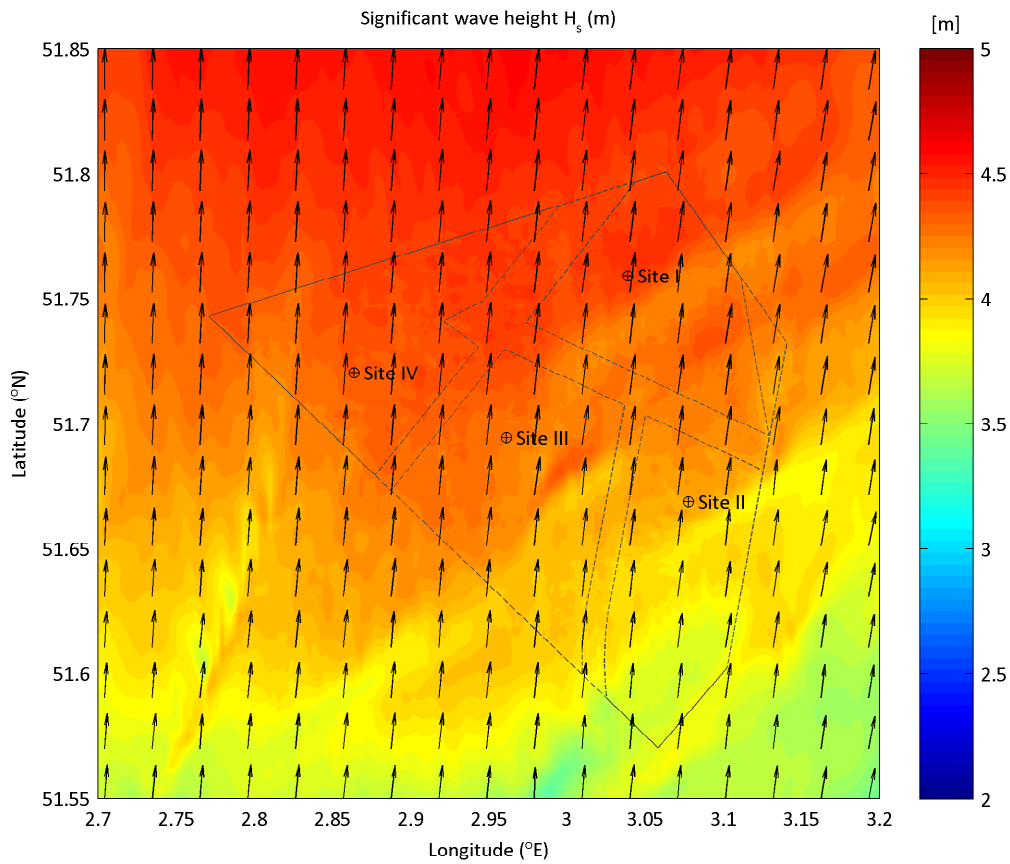
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

minimum still water level

App. B.4.038



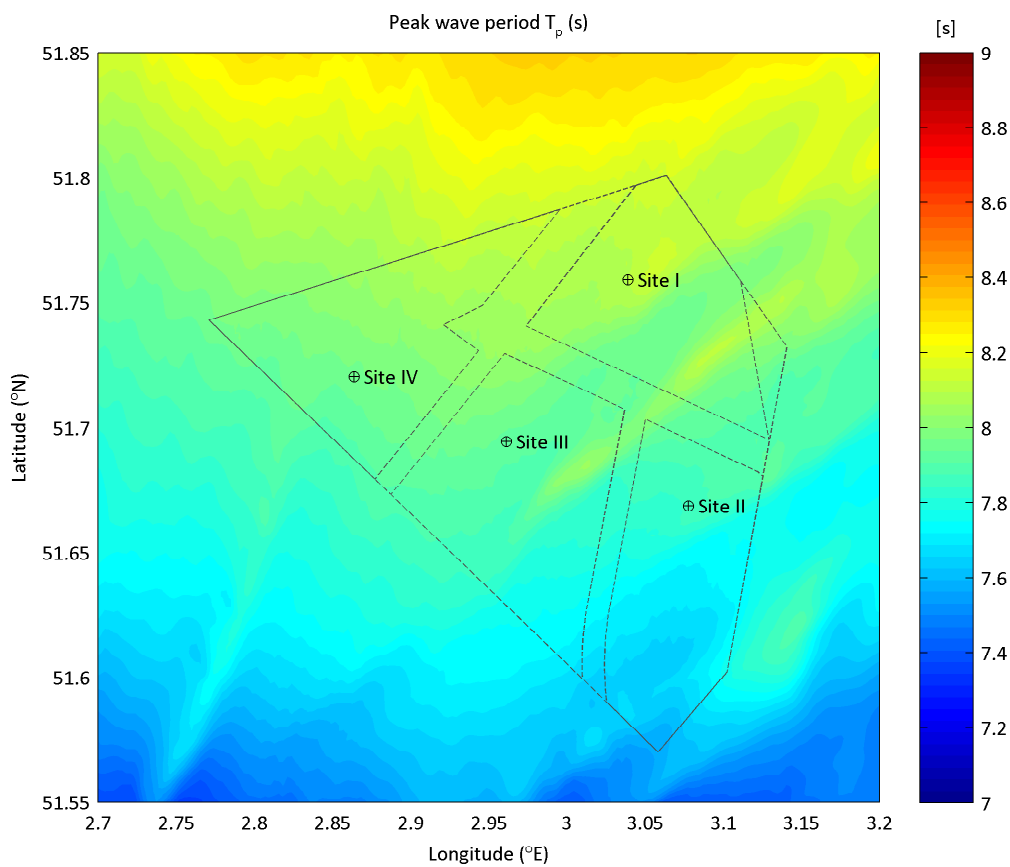
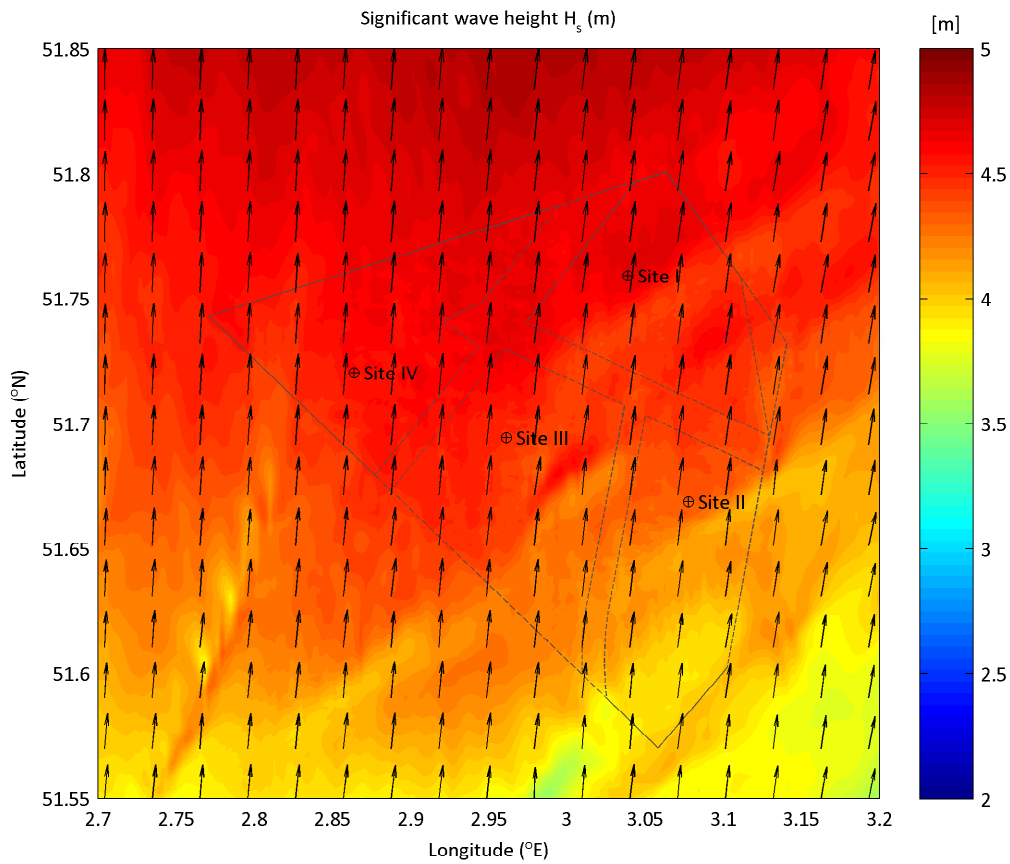
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

minimum still water level

App. B.4.039



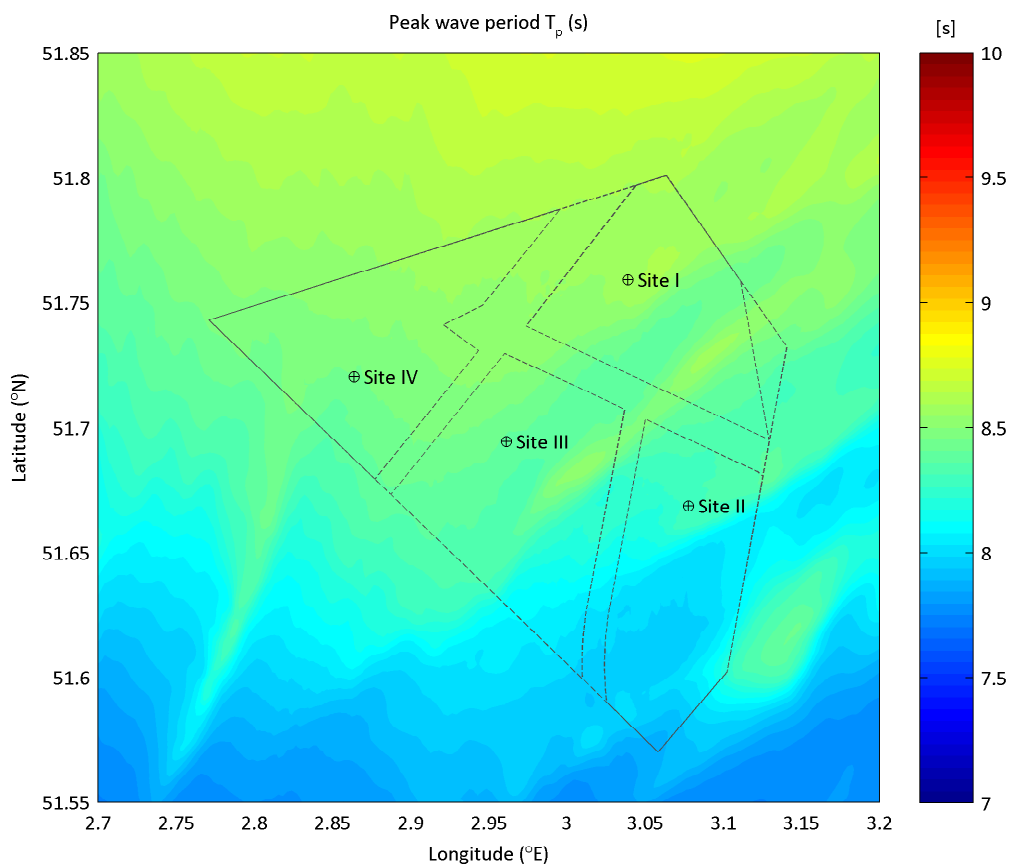
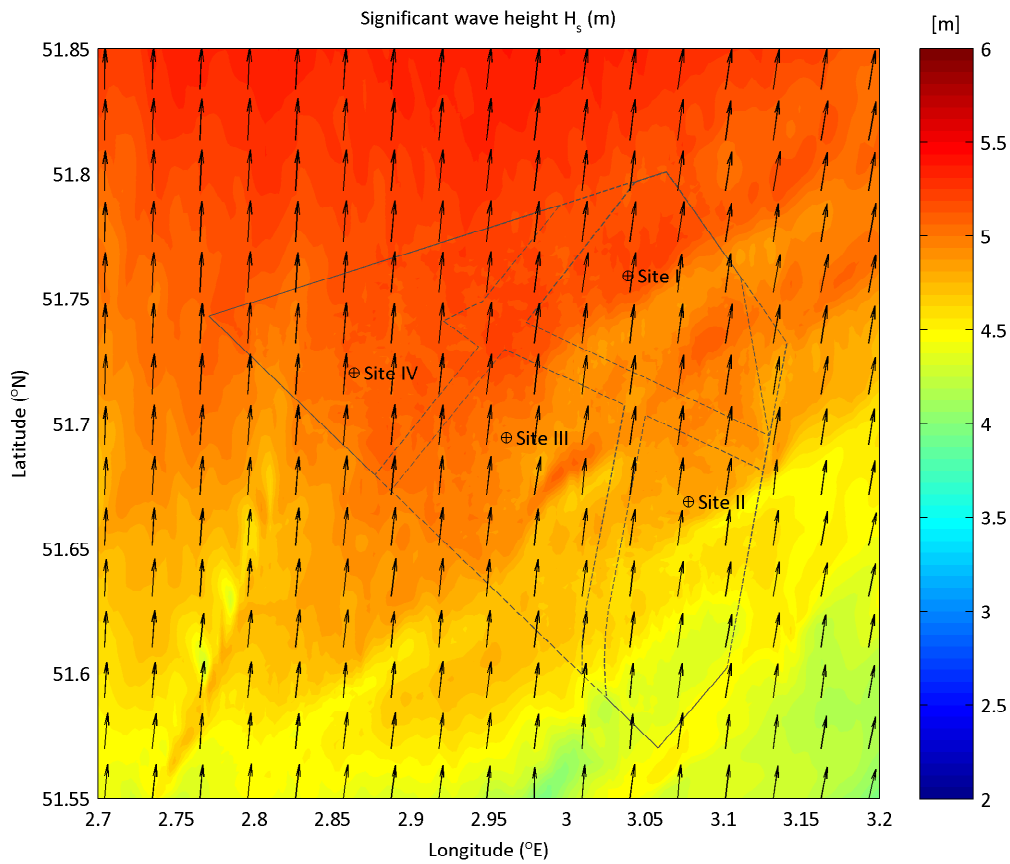
Extreme wave condition from Sector165 (°N) - 195 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.040



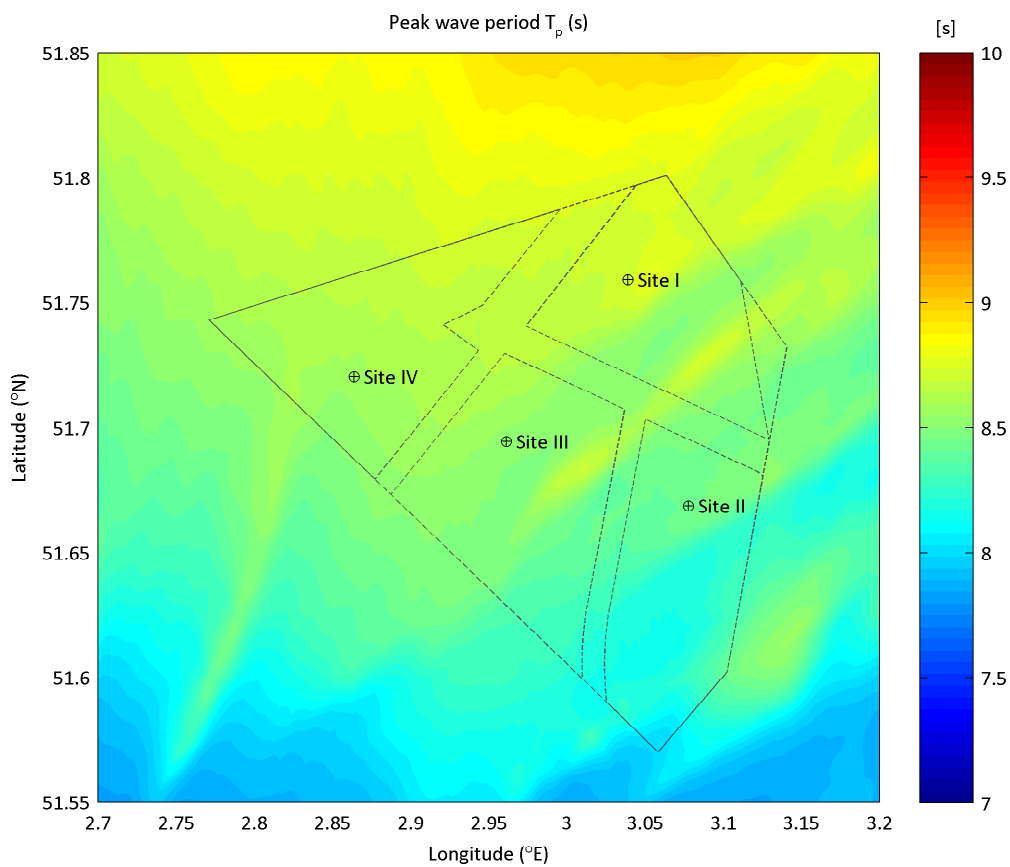
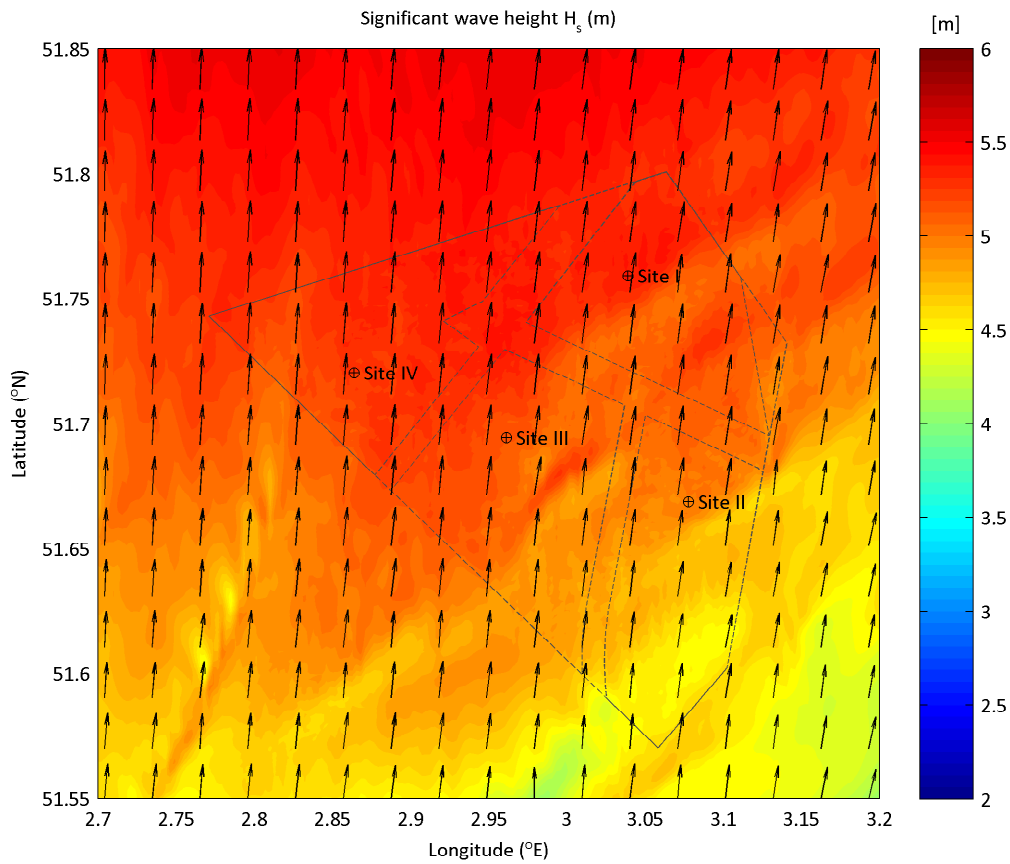
Extreme wave condition from Sector165 ($^{\circ}$ N) - 195 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.041



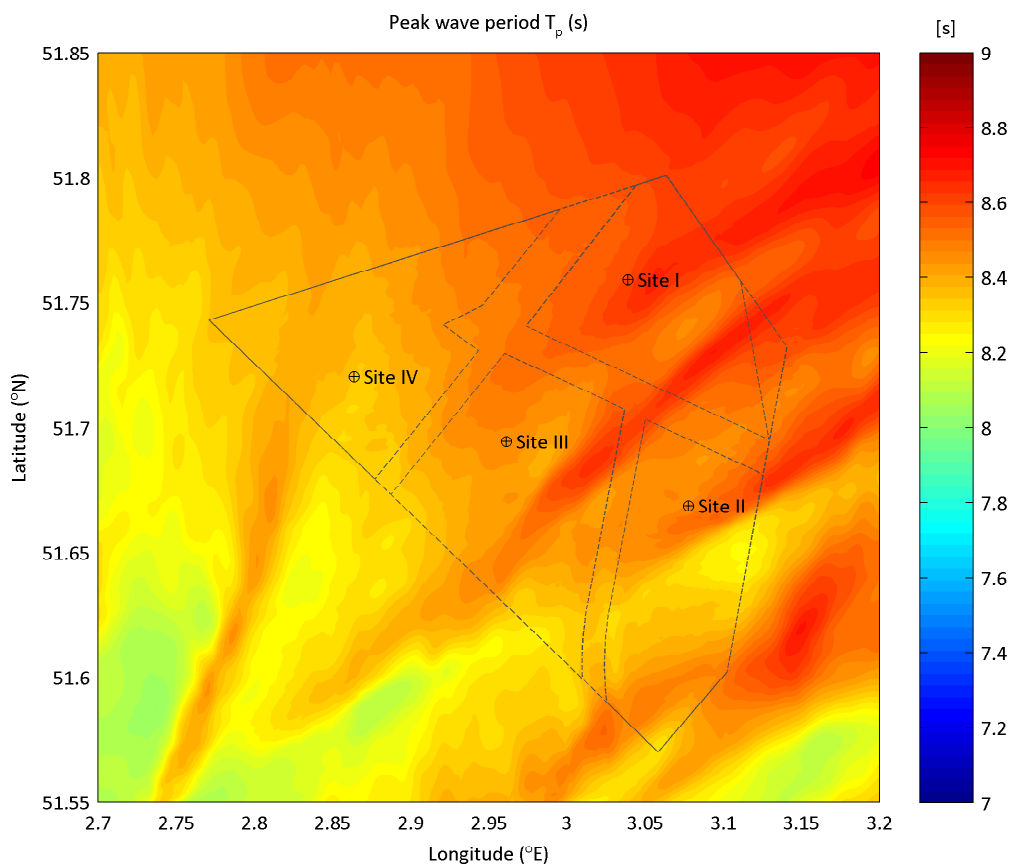
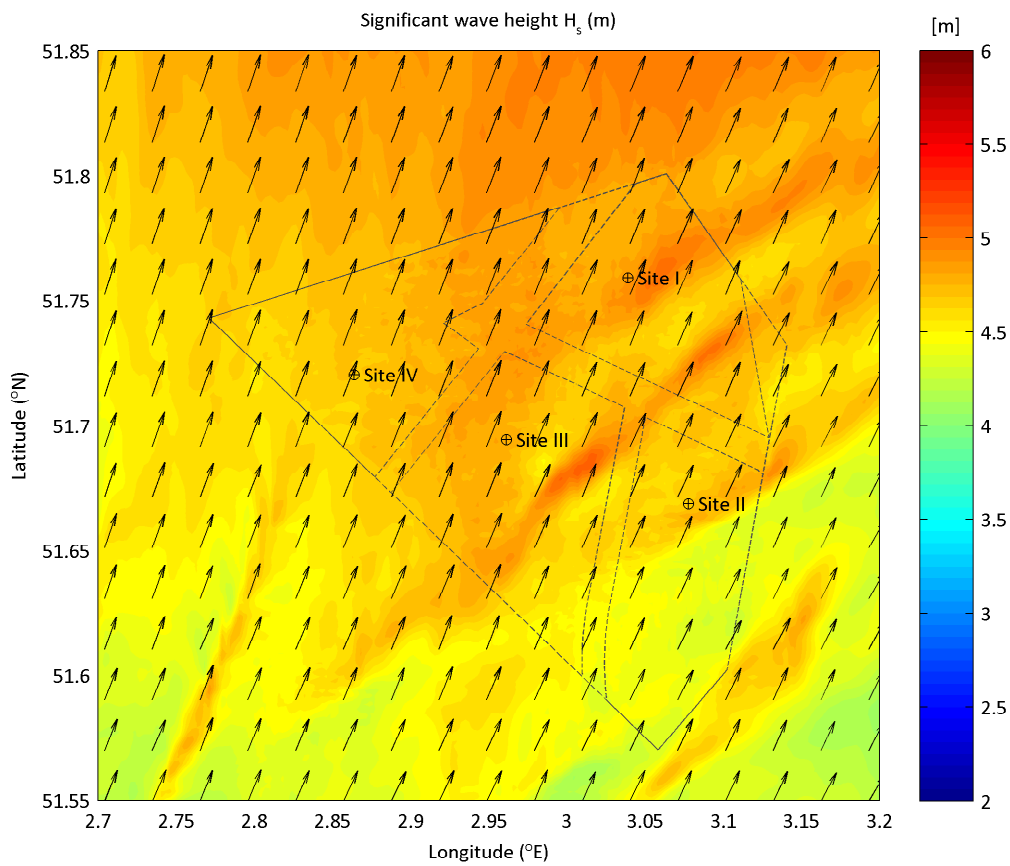
Extreme wave condition from Sector165 ($^{\circ}$ N) - 195 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.042



Extreme wave condition from Sector195 (°N) - 225 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

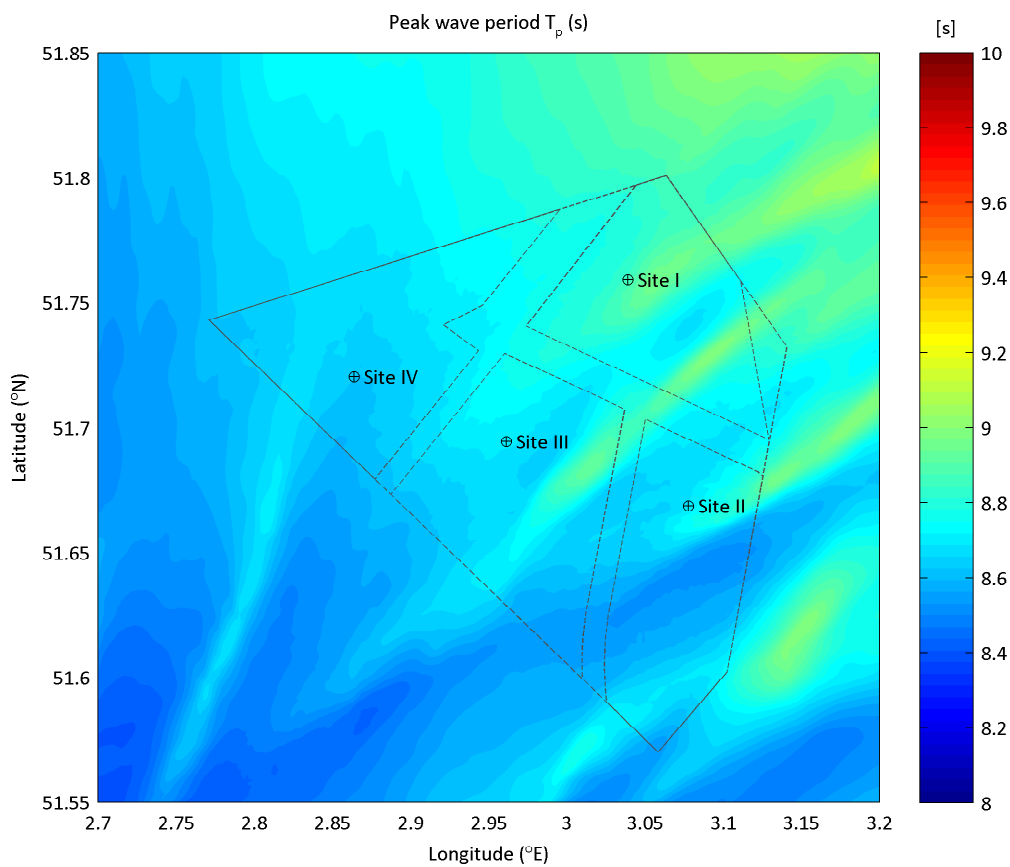
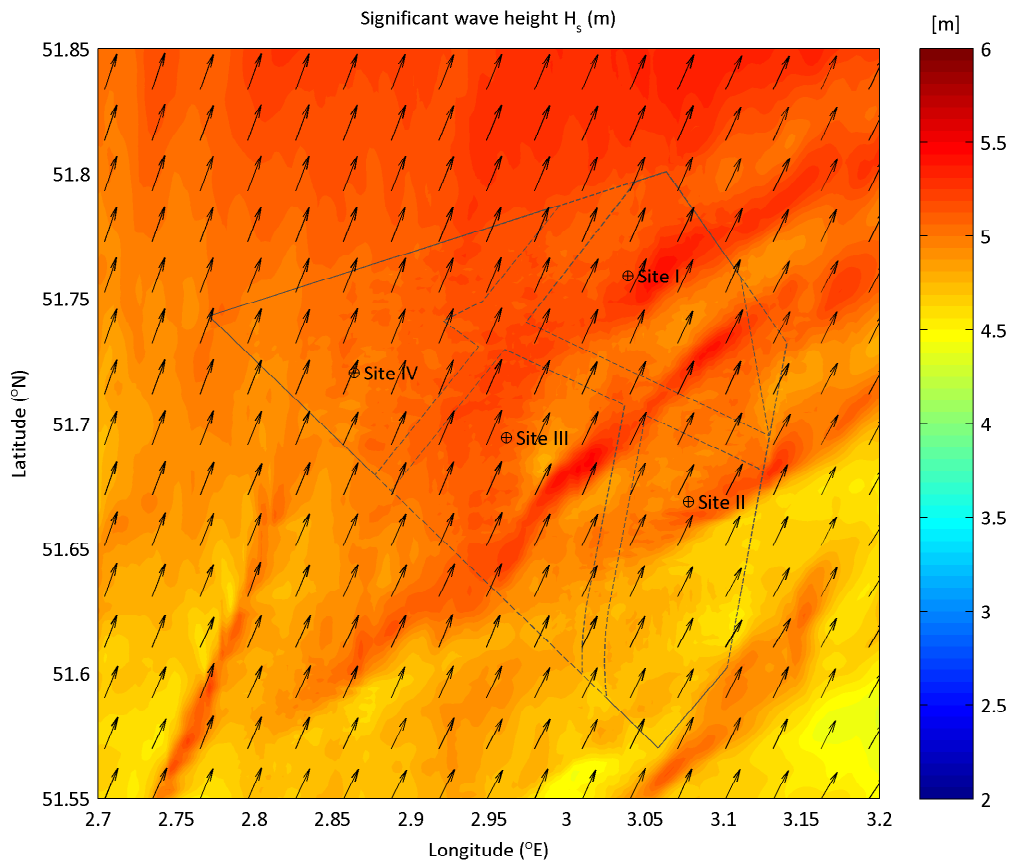
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.043



Extreme wave condition from Sector195 ($^{\circ}$ N) - 225 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

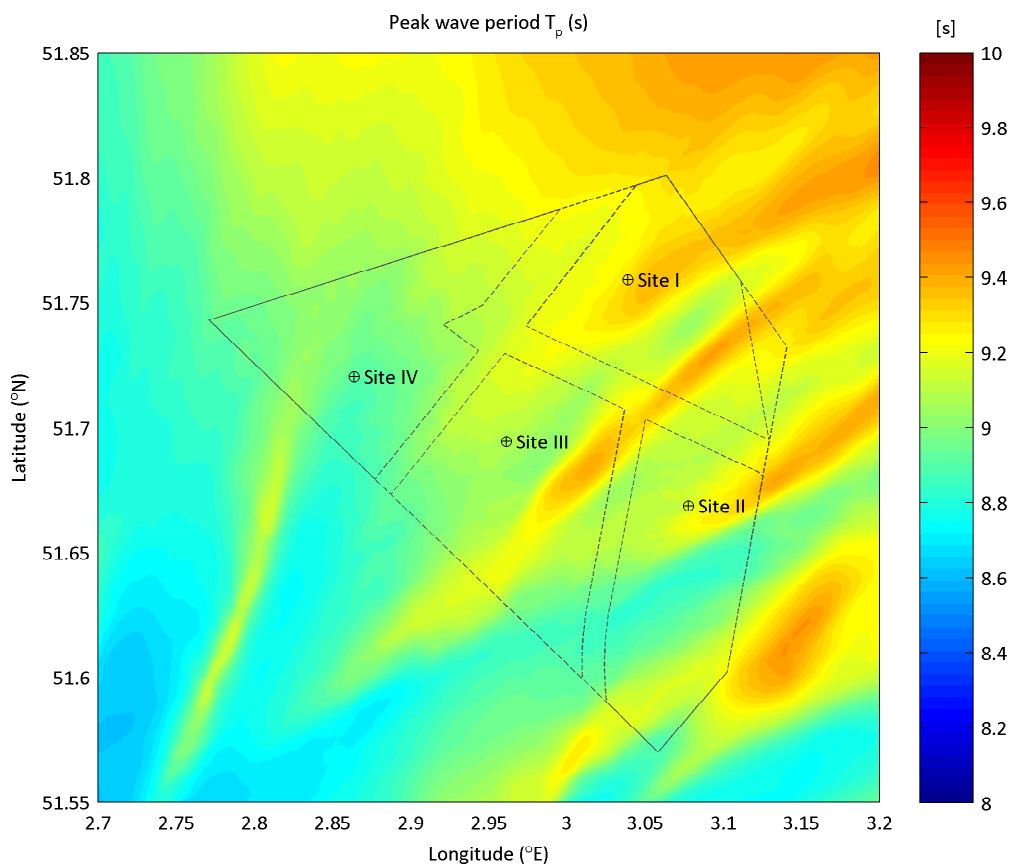
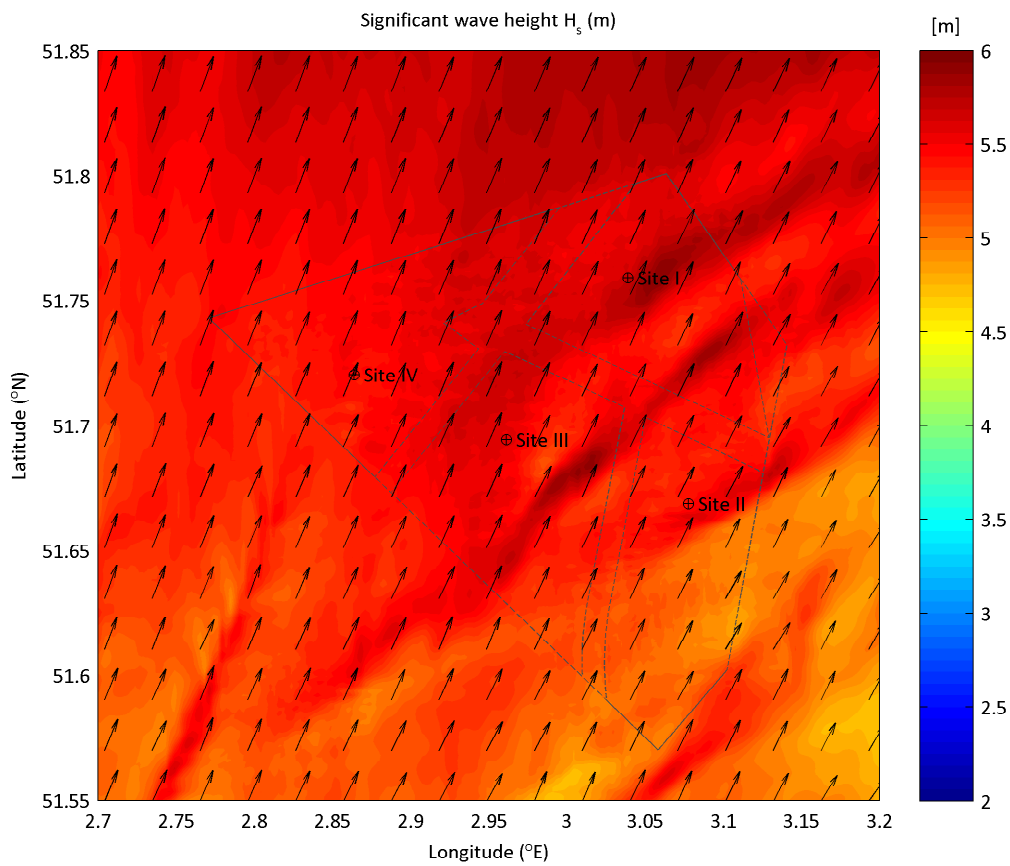
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.044



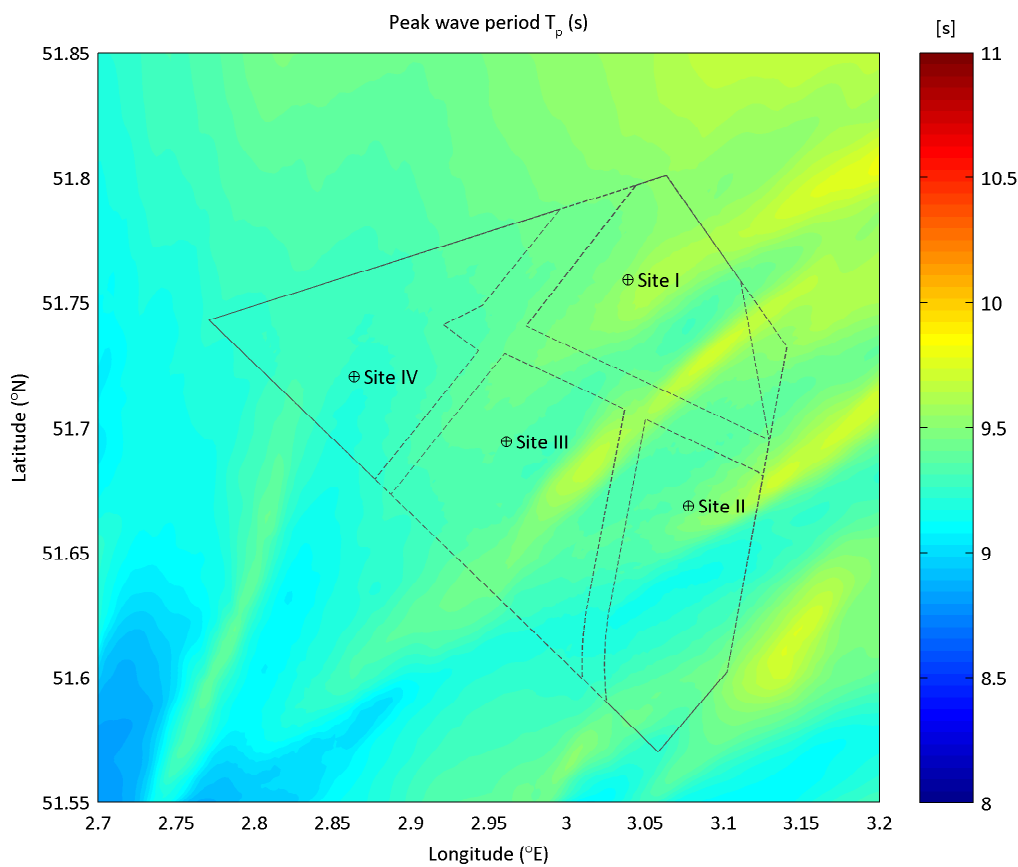
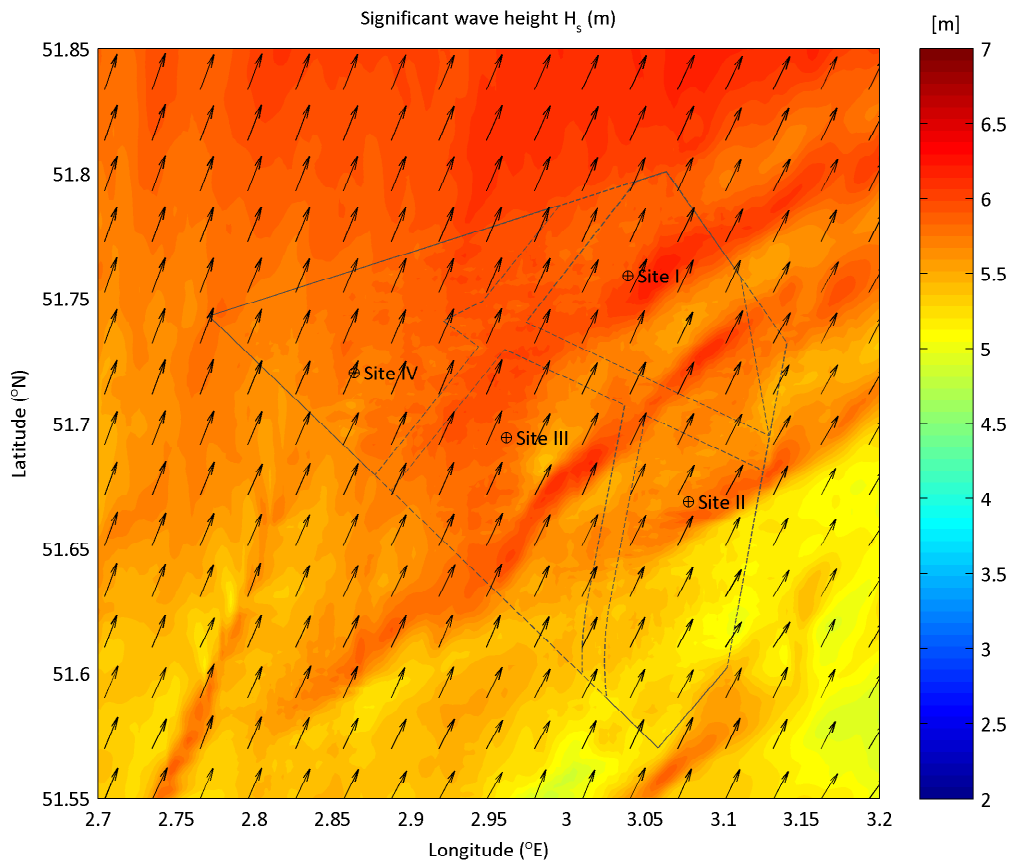
Extreme wave condition from Sector195 (°N) - 225 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 5yr

minimum still water level

App. B.4.045



Extreme wave condition from Sector195 (°N) - 225 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

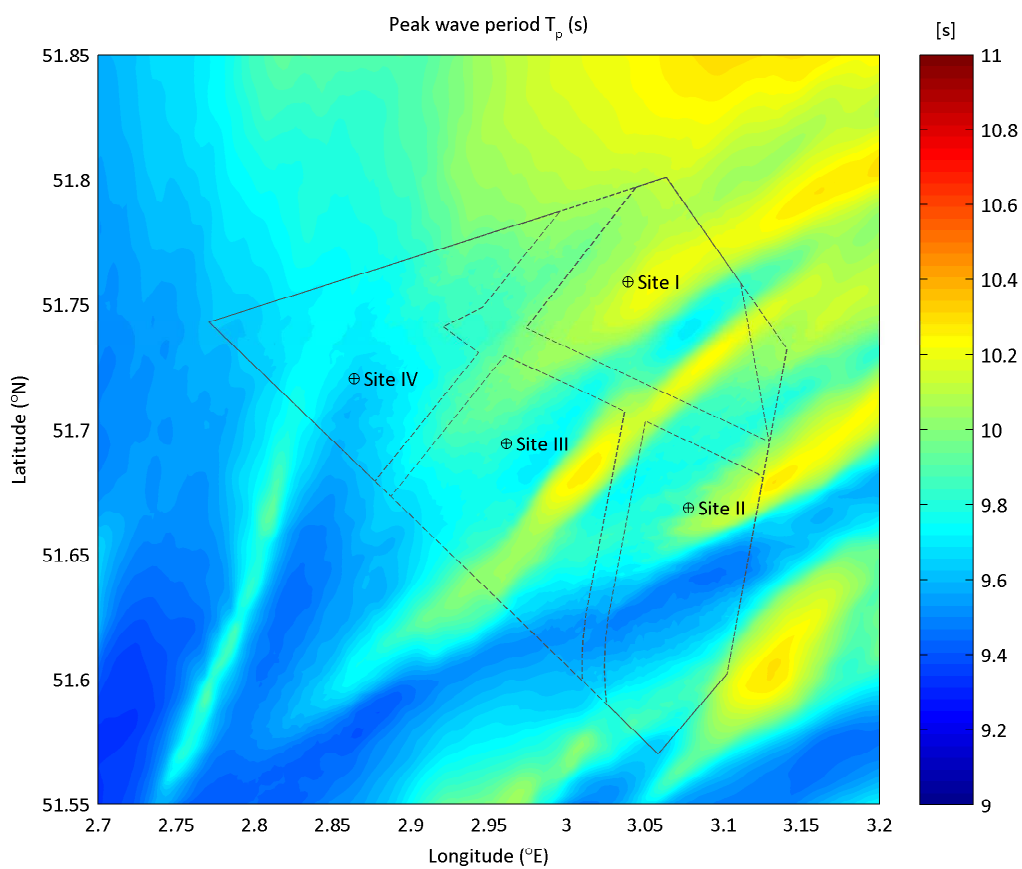
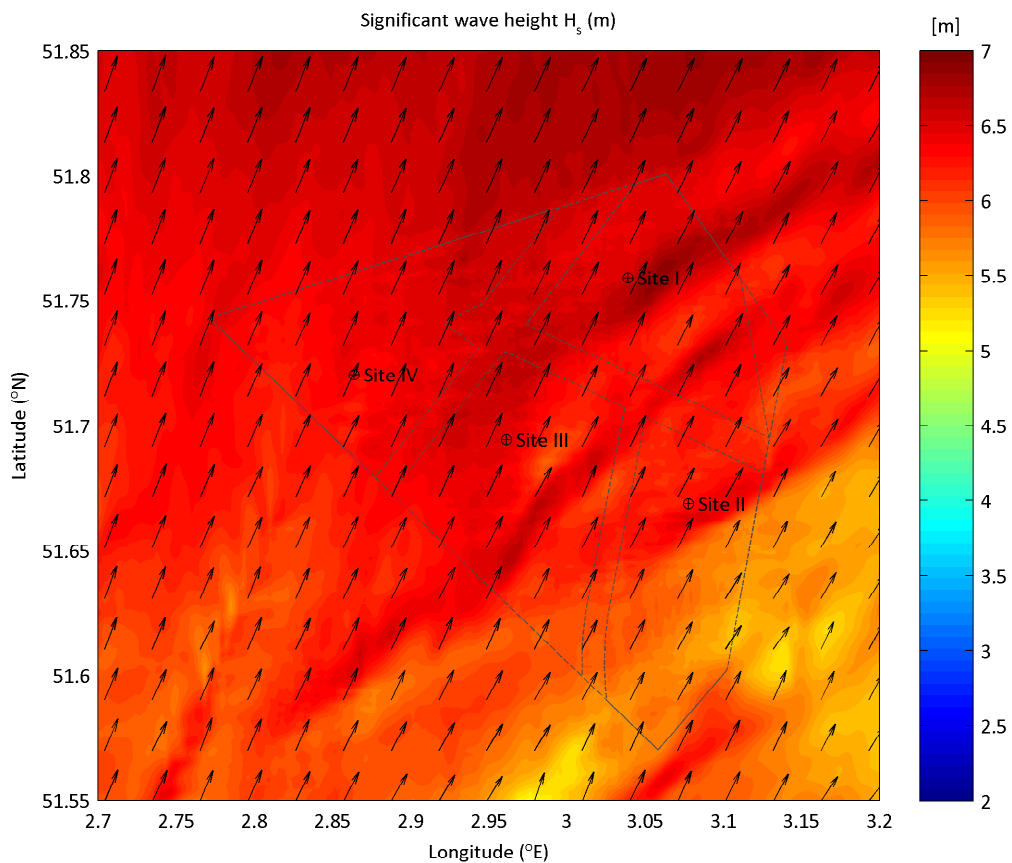
Nautical convention: coming from, clockwise from North

RP: 10yr

minimum still water level

Deltares

App. B.4.046



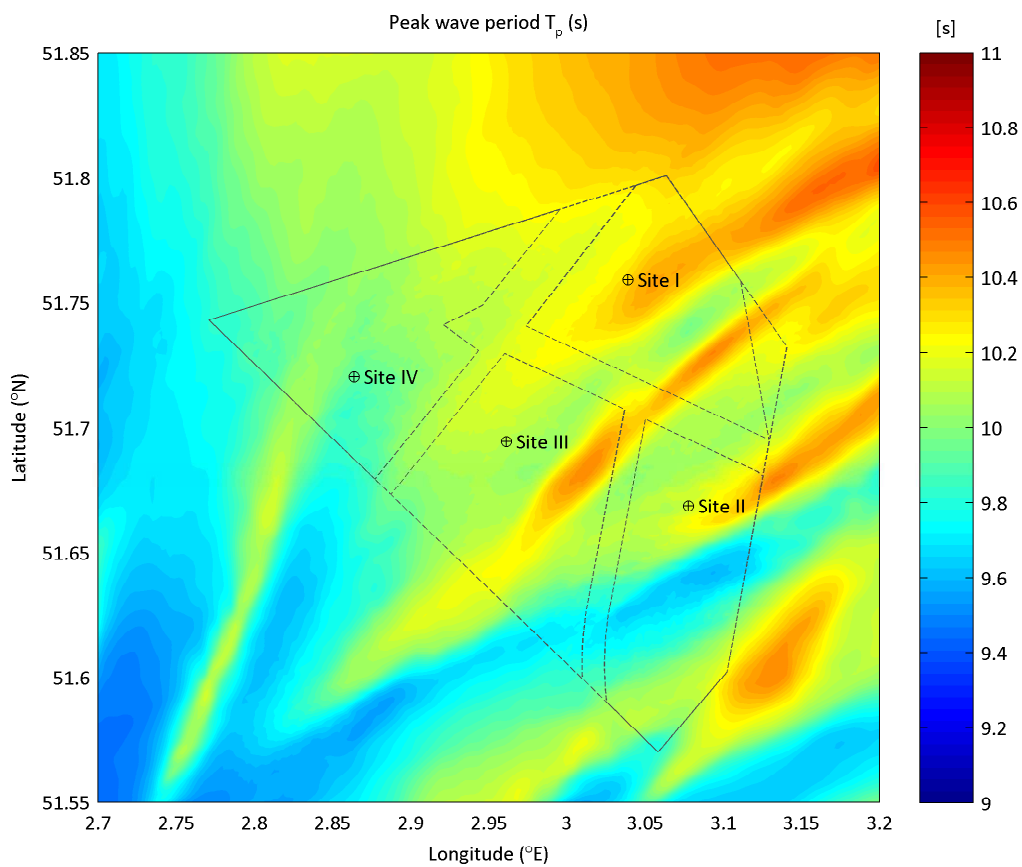
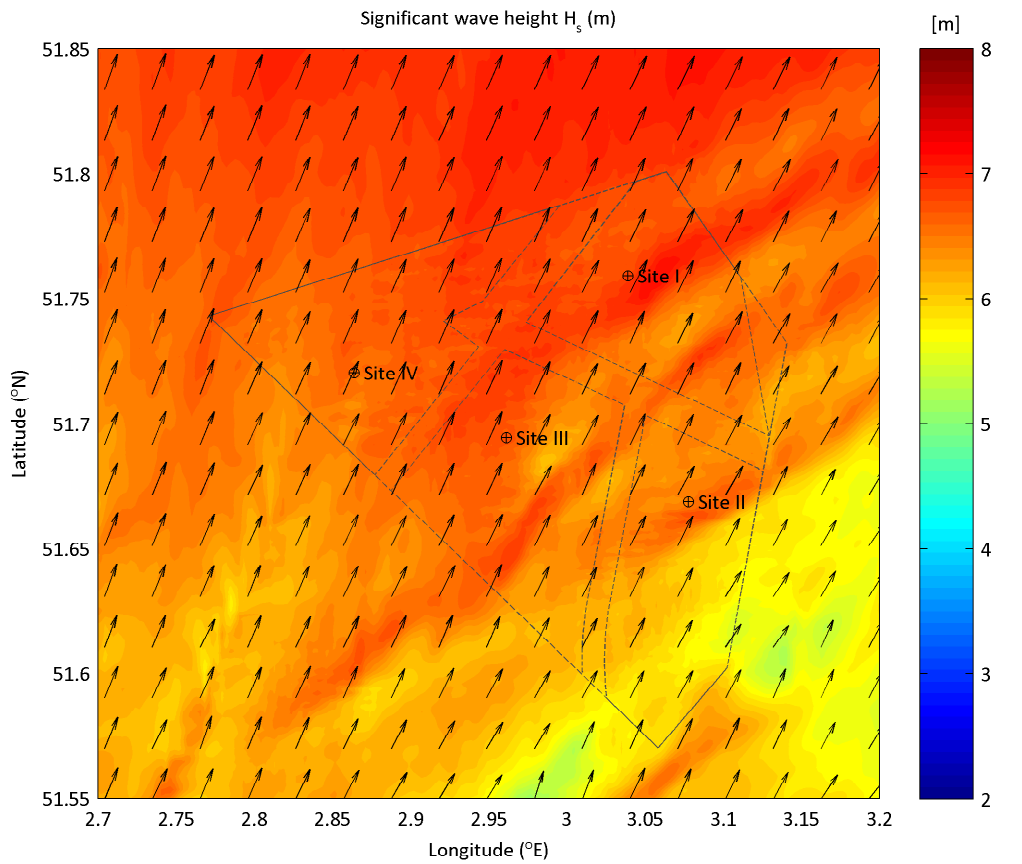
Extreme wave condition from Sector195 (°N) - 225 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.047



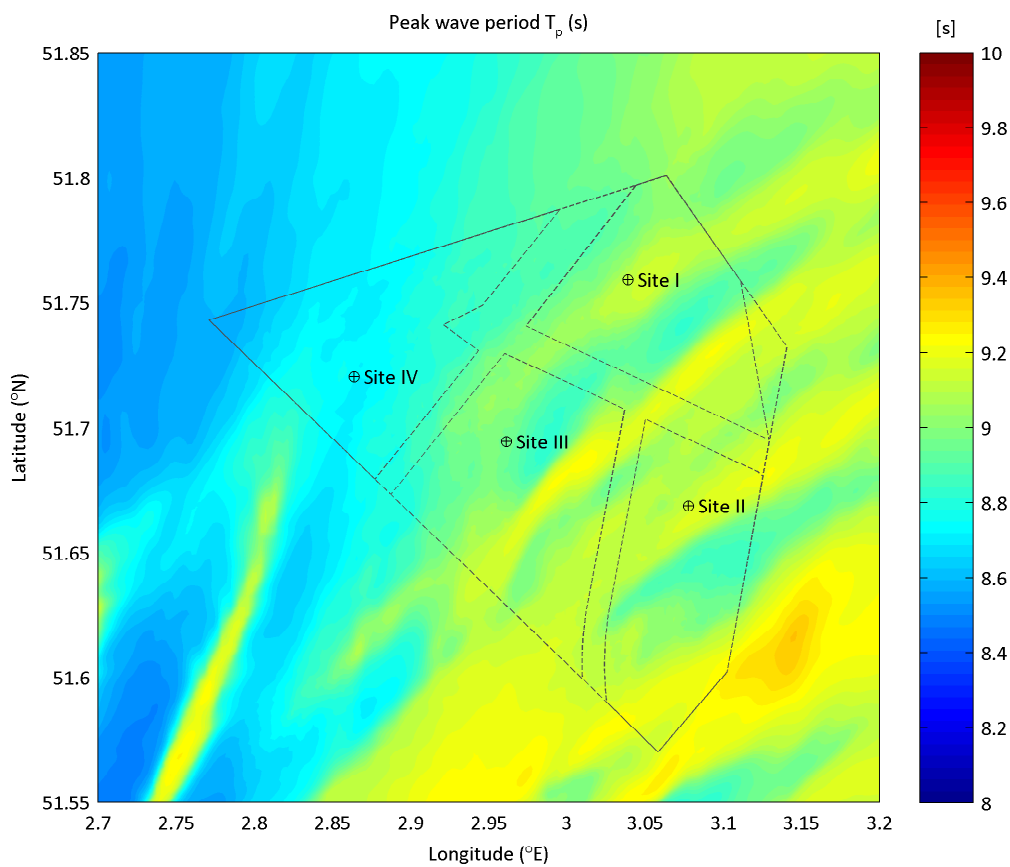
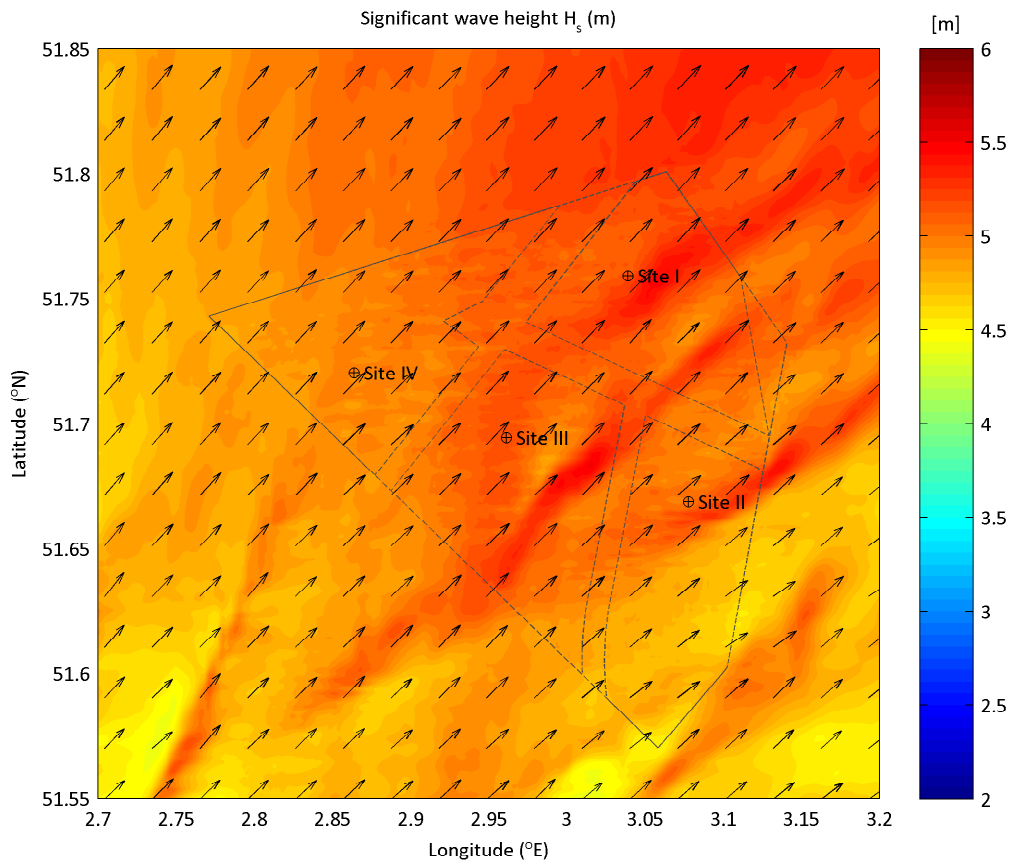
Extreme wave condition from Sector195 ($^{\circ}$ N) - 225 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.048



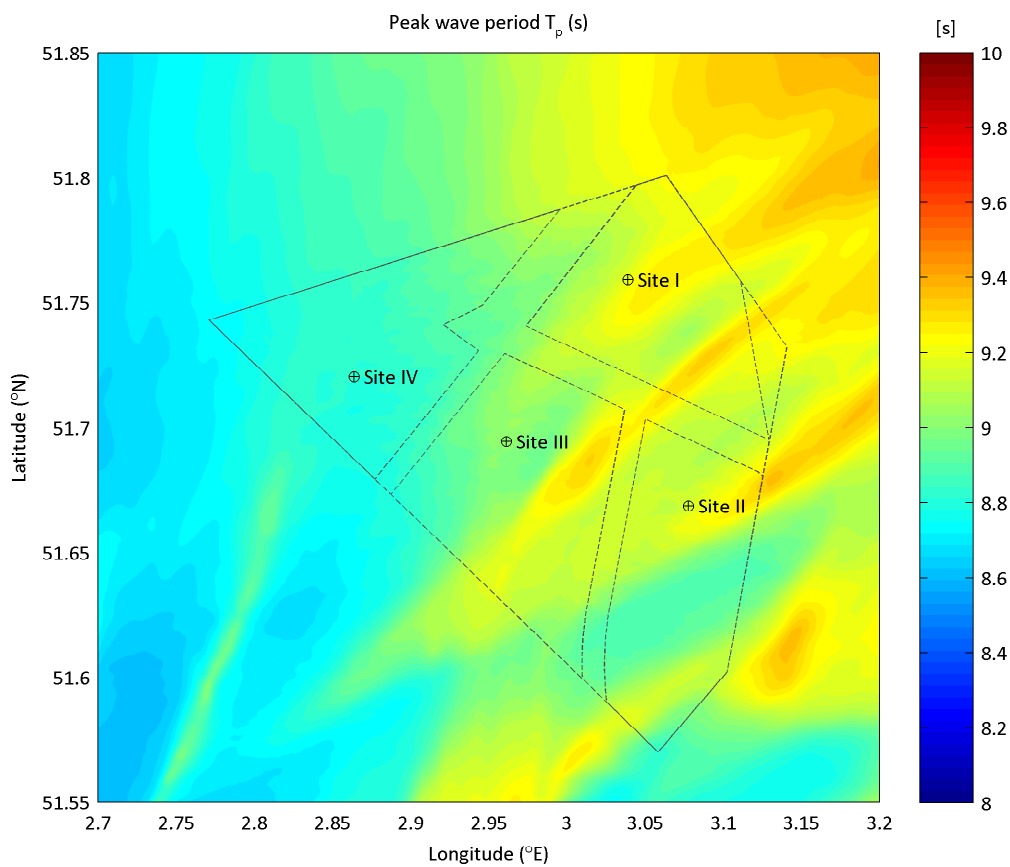
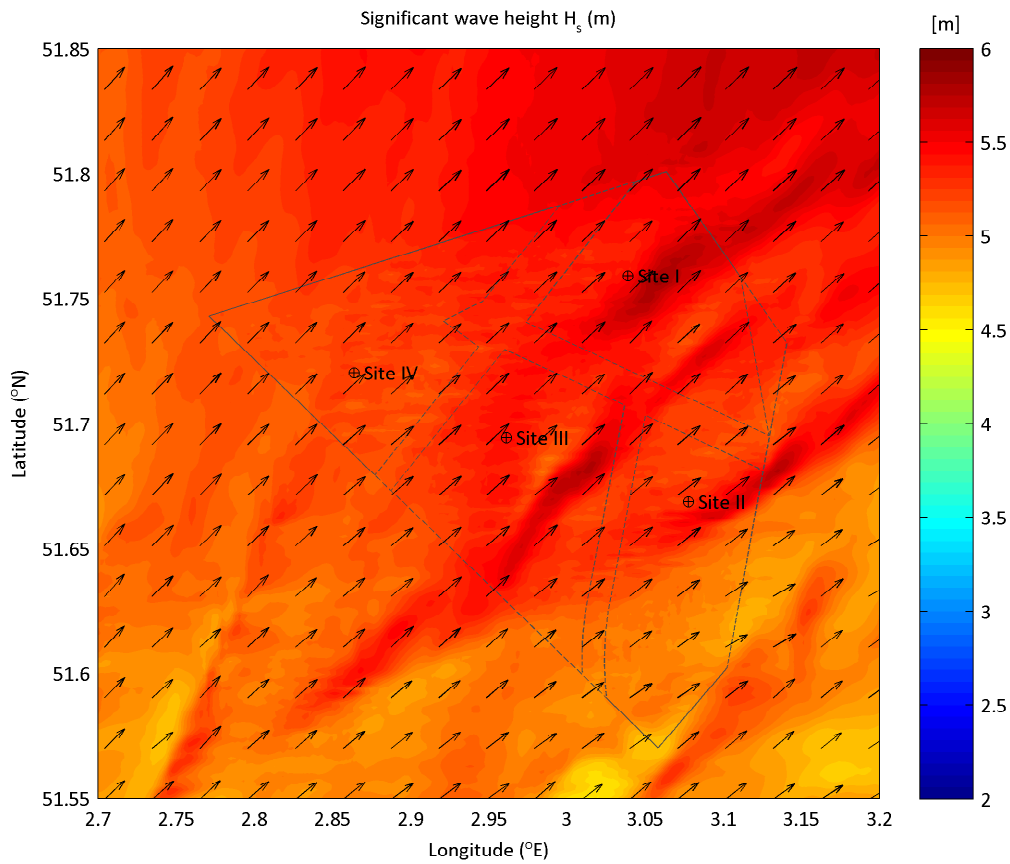
Extreme wave condition from Sector225 (°N) - 255 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 1yr

minimum still water level

App. B.4.049



Extreme wave condition from Sector225 (°N) - 255 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

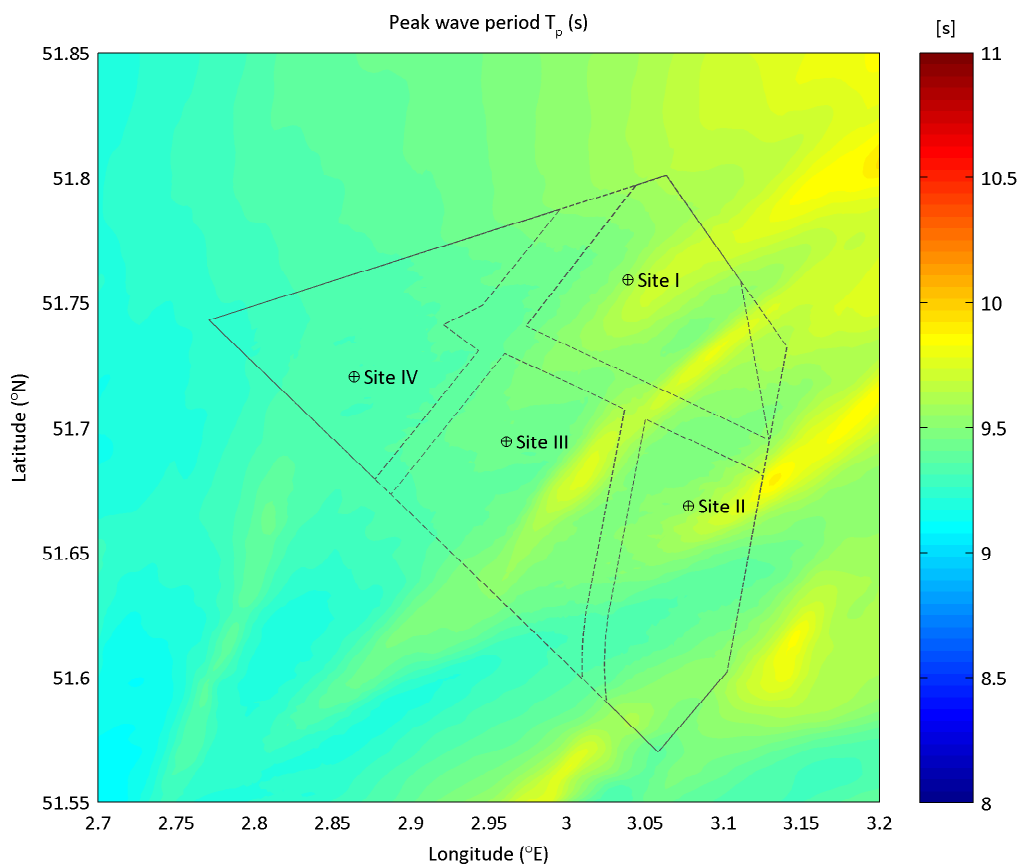
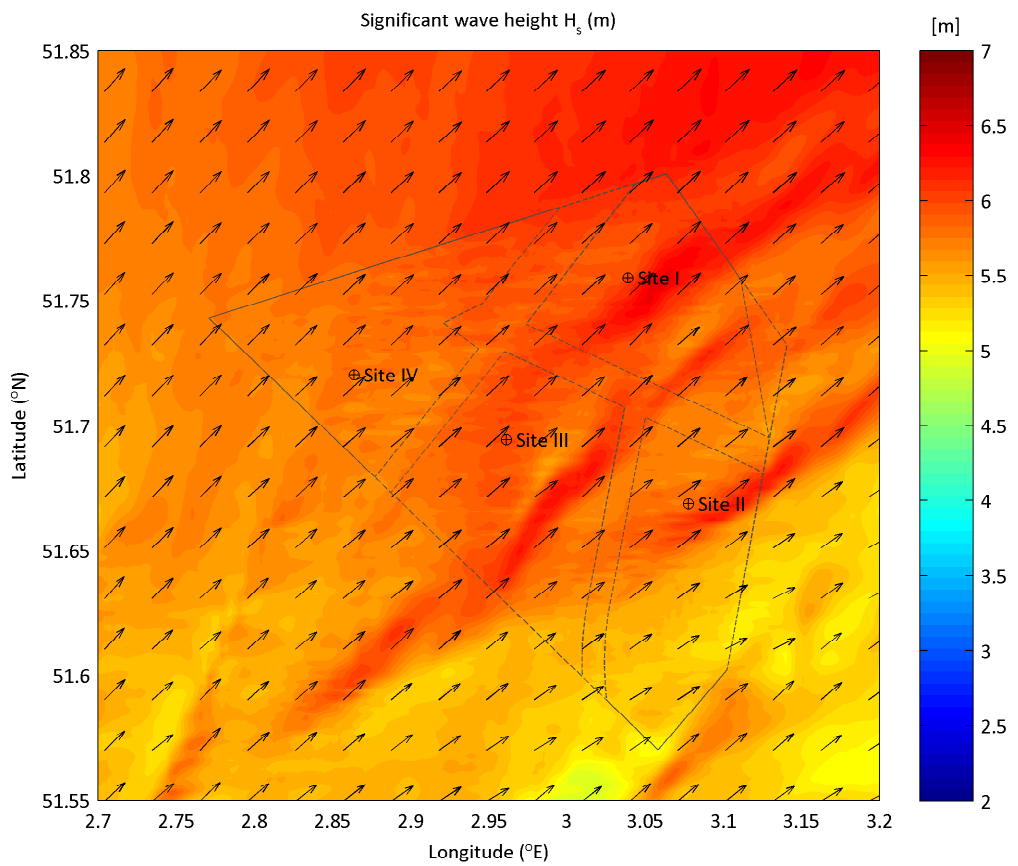
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.050



Extreme wave condition from Sector225 ($^{\circ}$ N) - 255 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

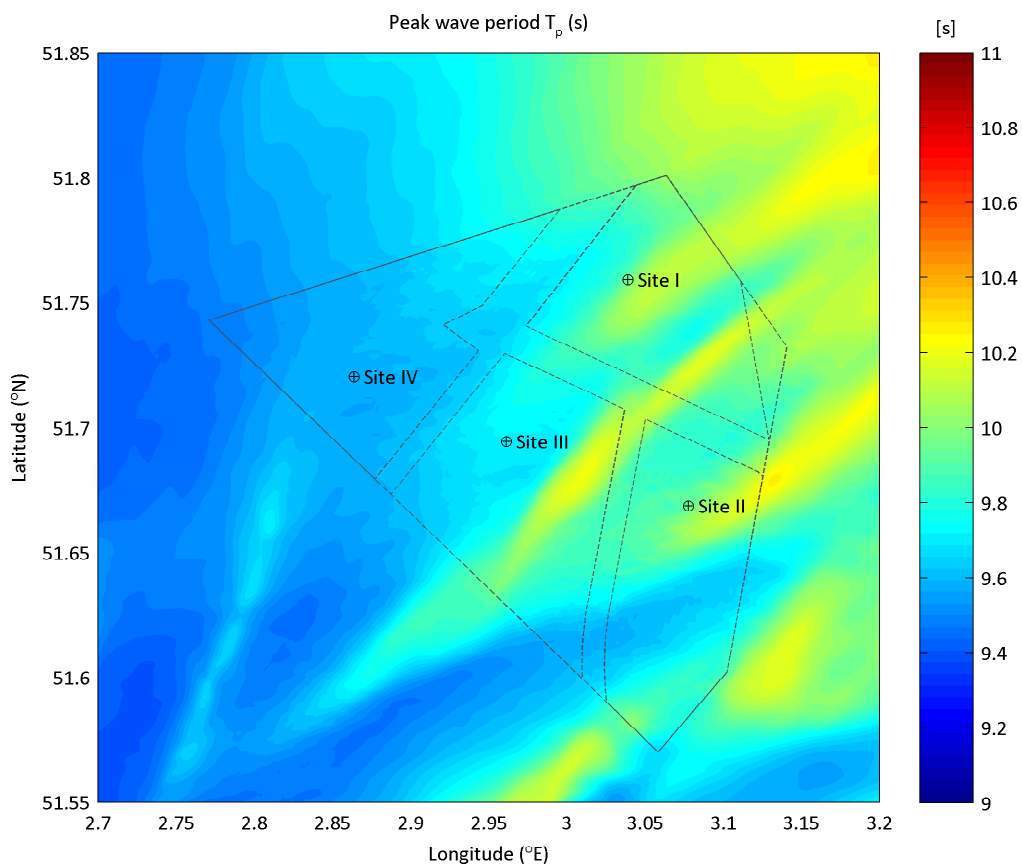
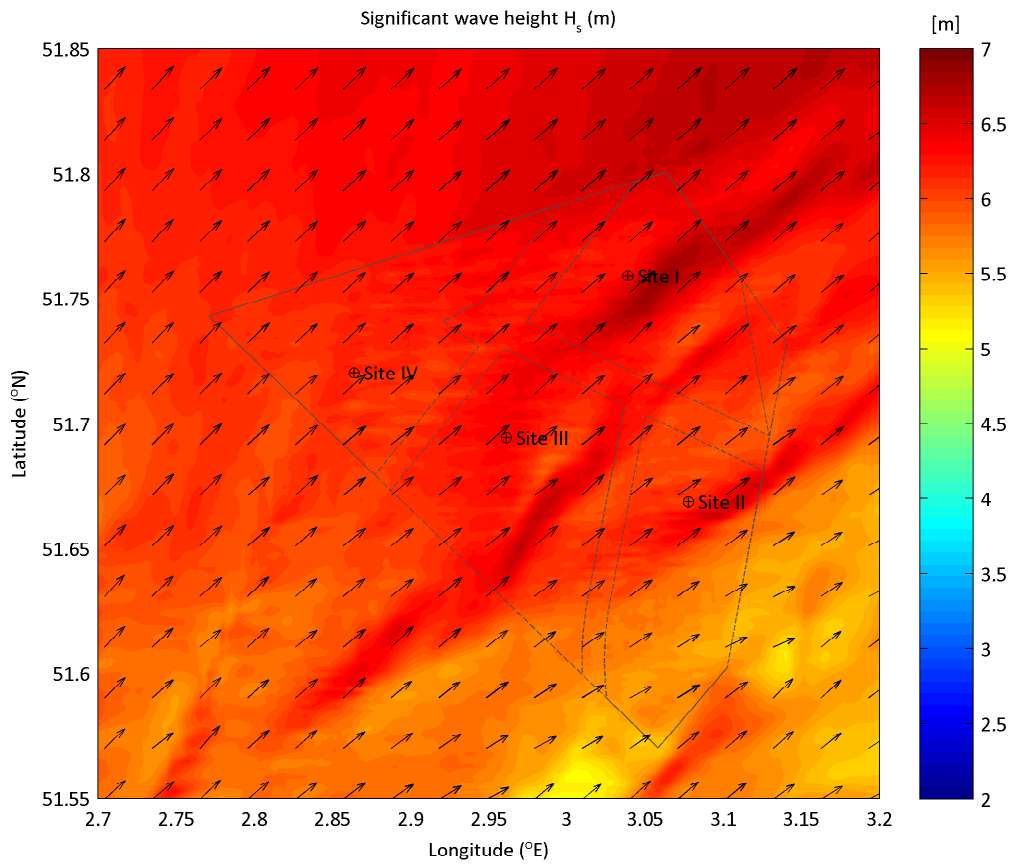
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.051



Extreme wave condition from Sector225 (°N) - 255 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

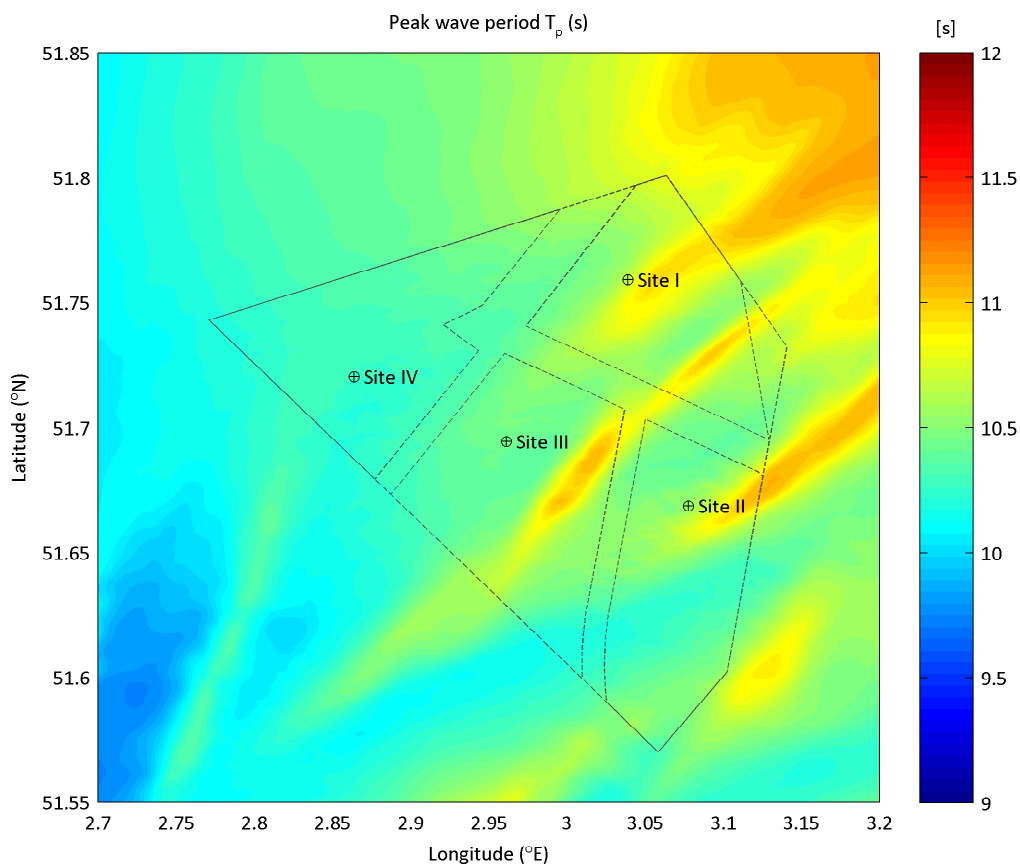
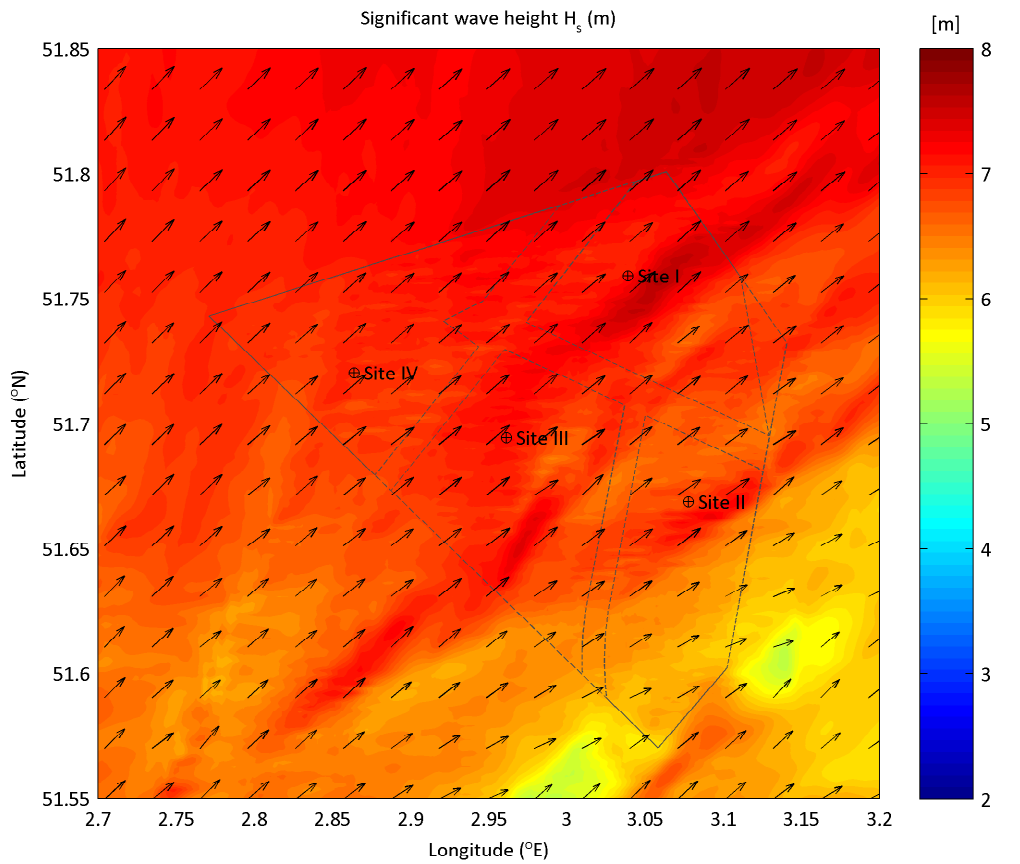
Nautical convention: coming from, clockwise from North

RP: 10yr

minimum still water level

Deltares

App. B.4.052



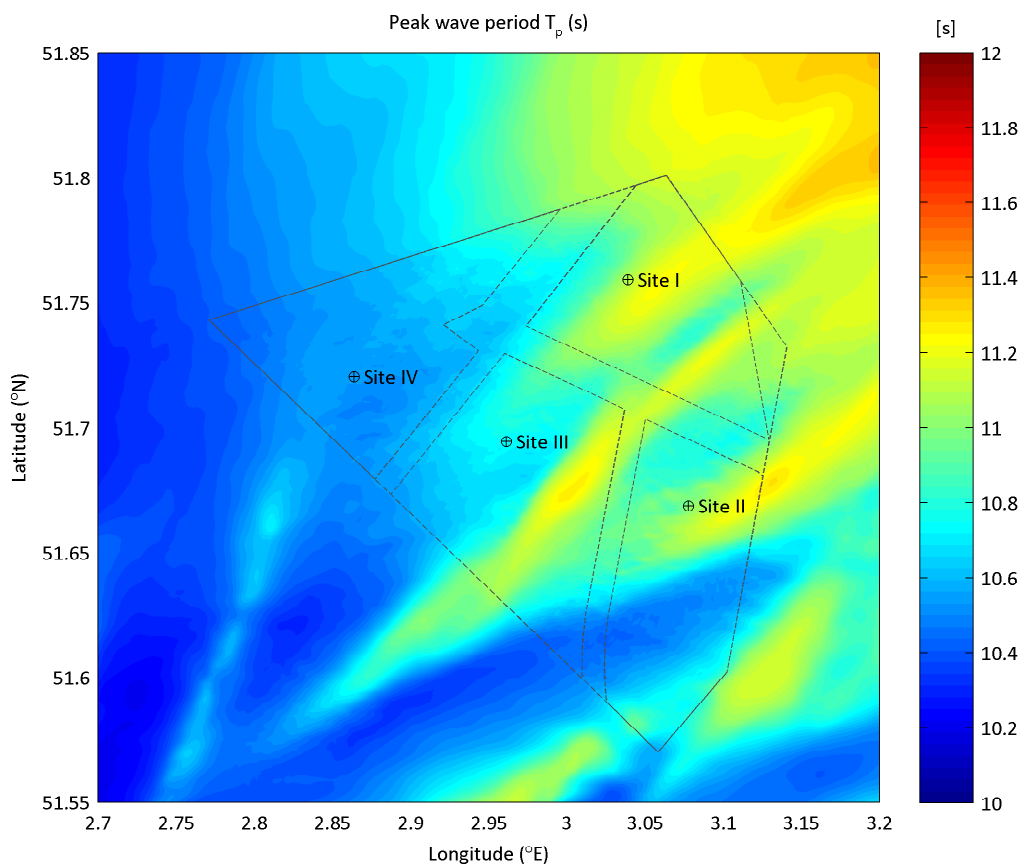
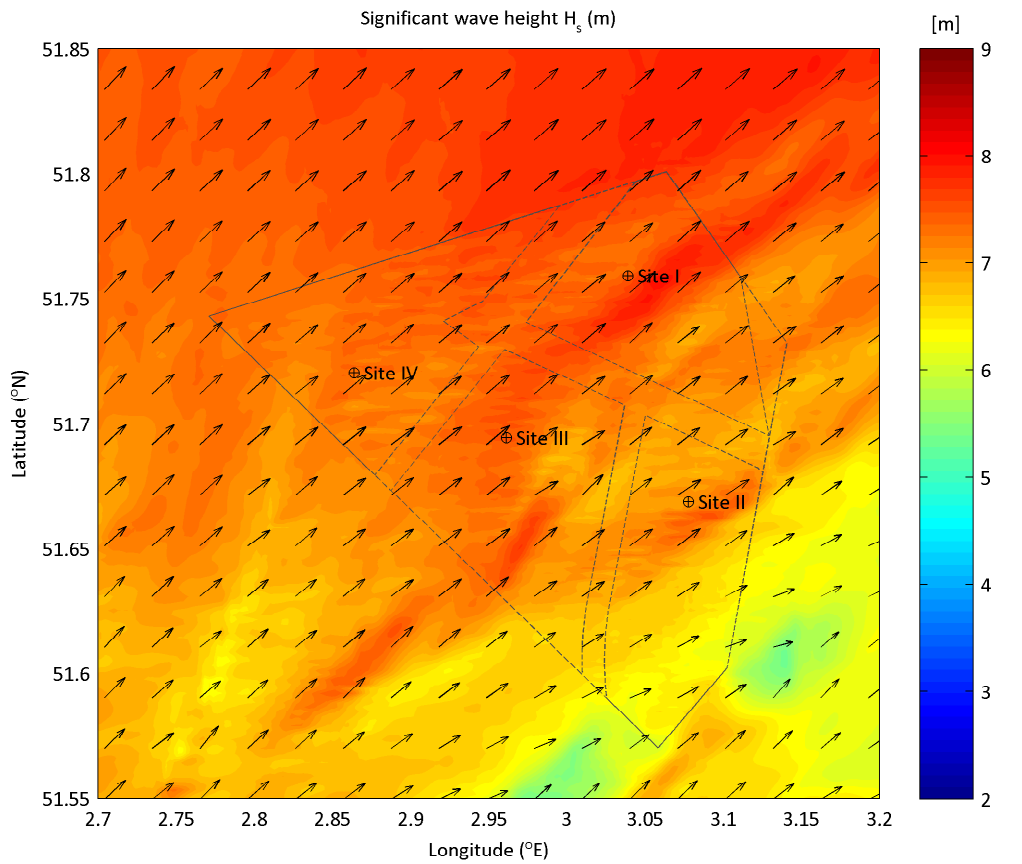
Extreme wave condition from Sector225 (°N) - 255 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.053



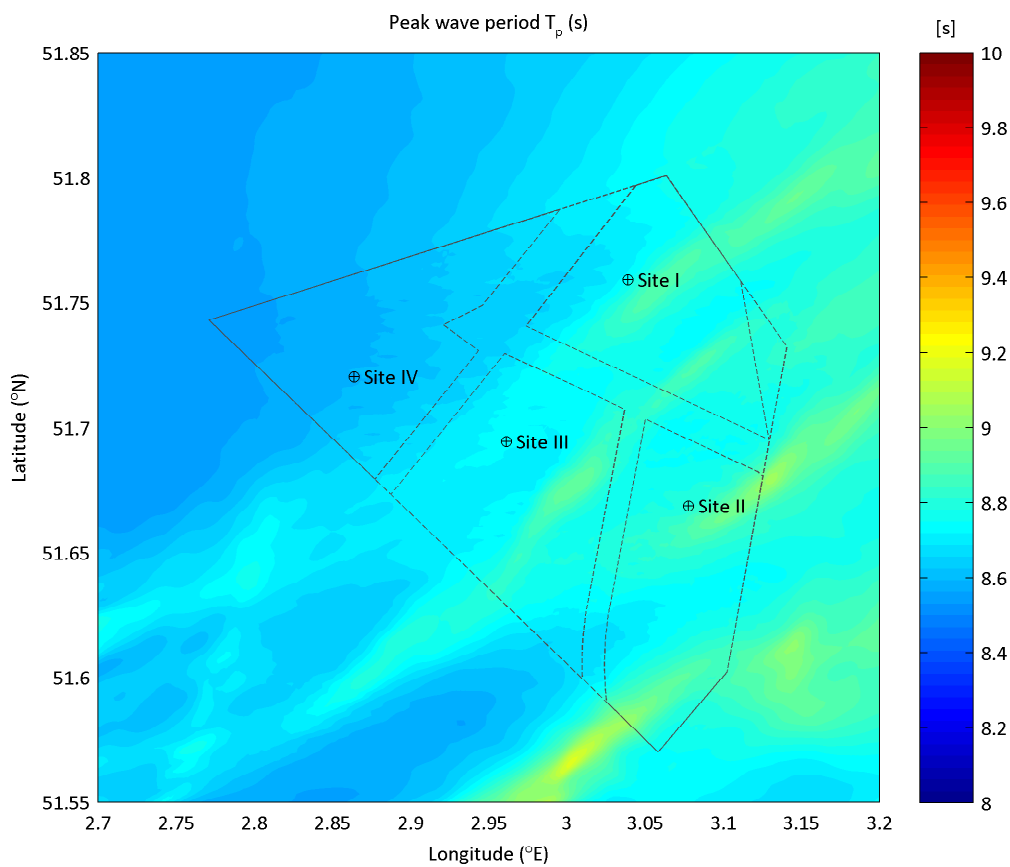
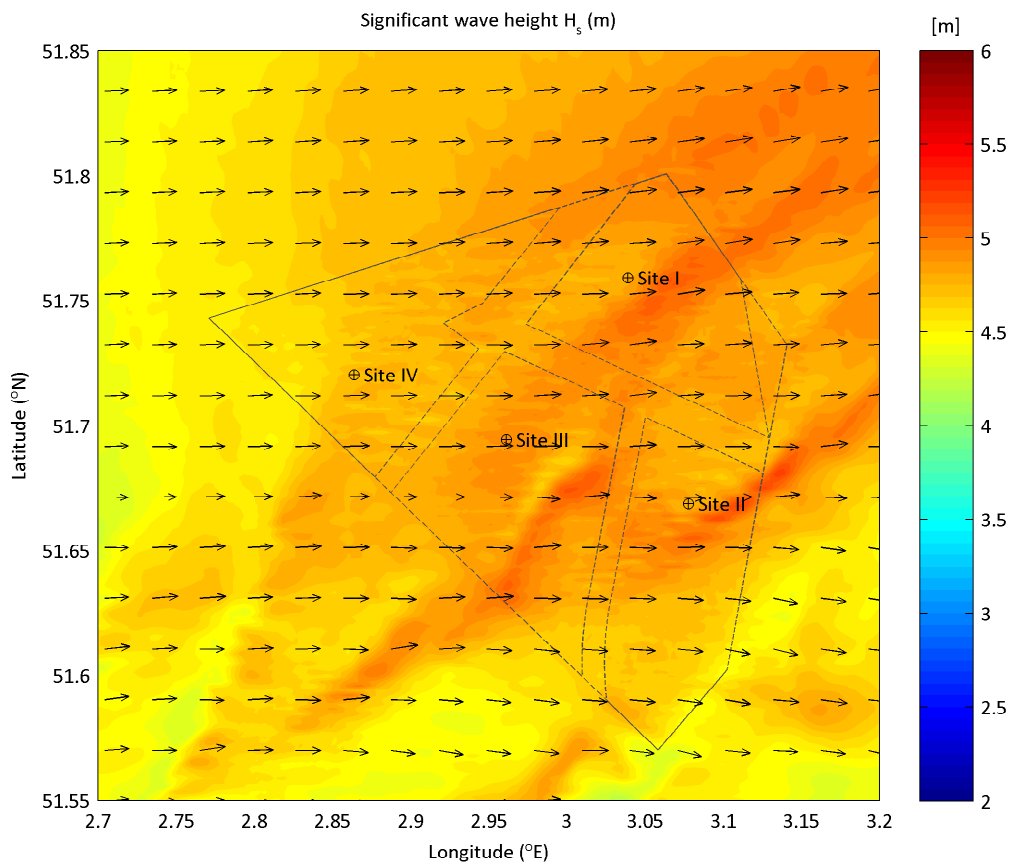
Extreme wave condition from Sector225 (°N) - 255 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.054



Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

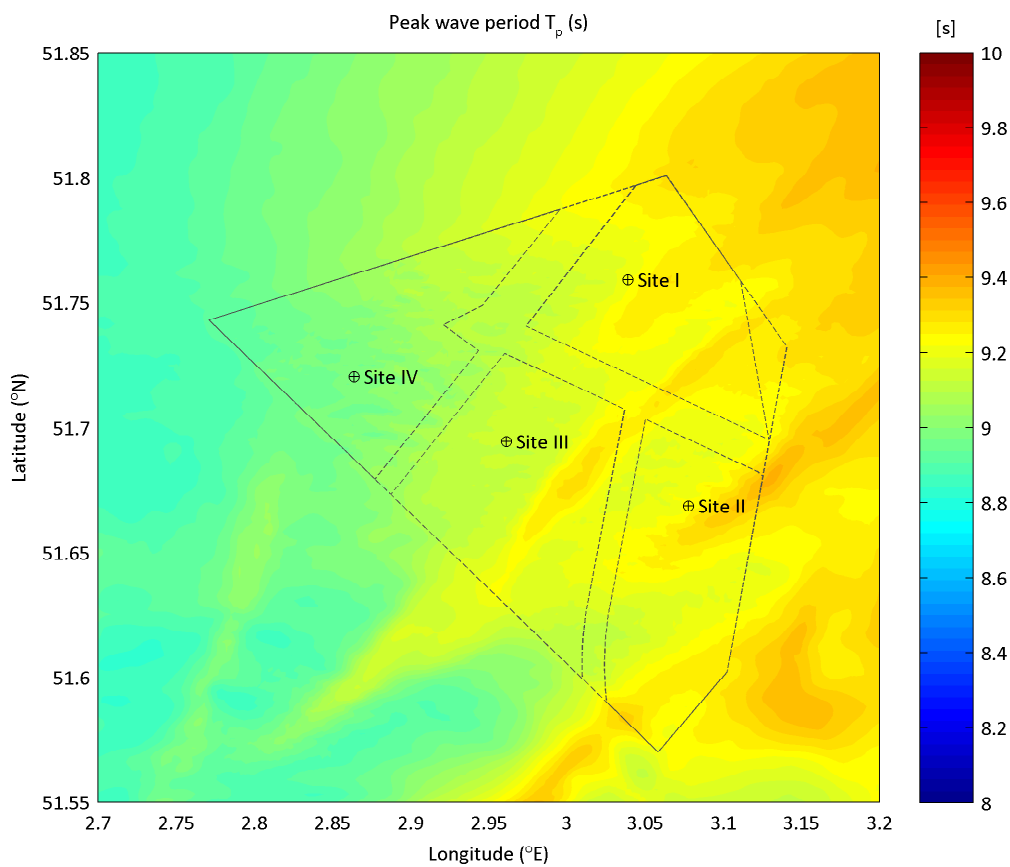
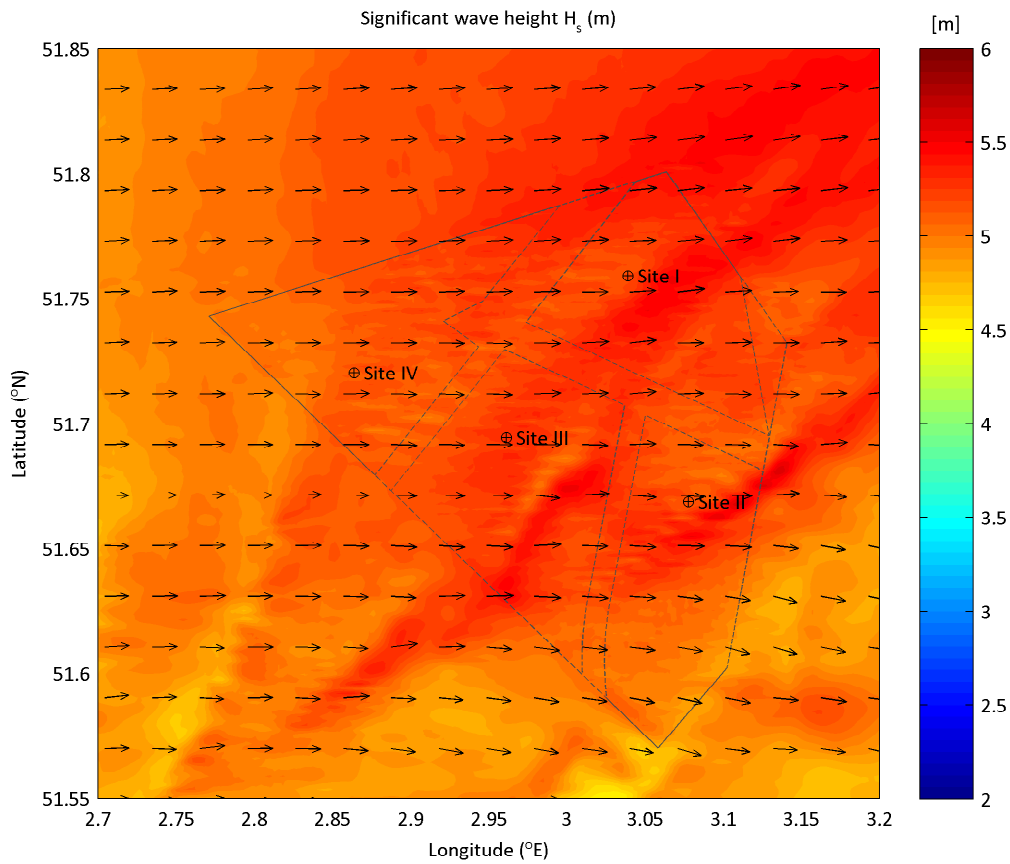
Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.055



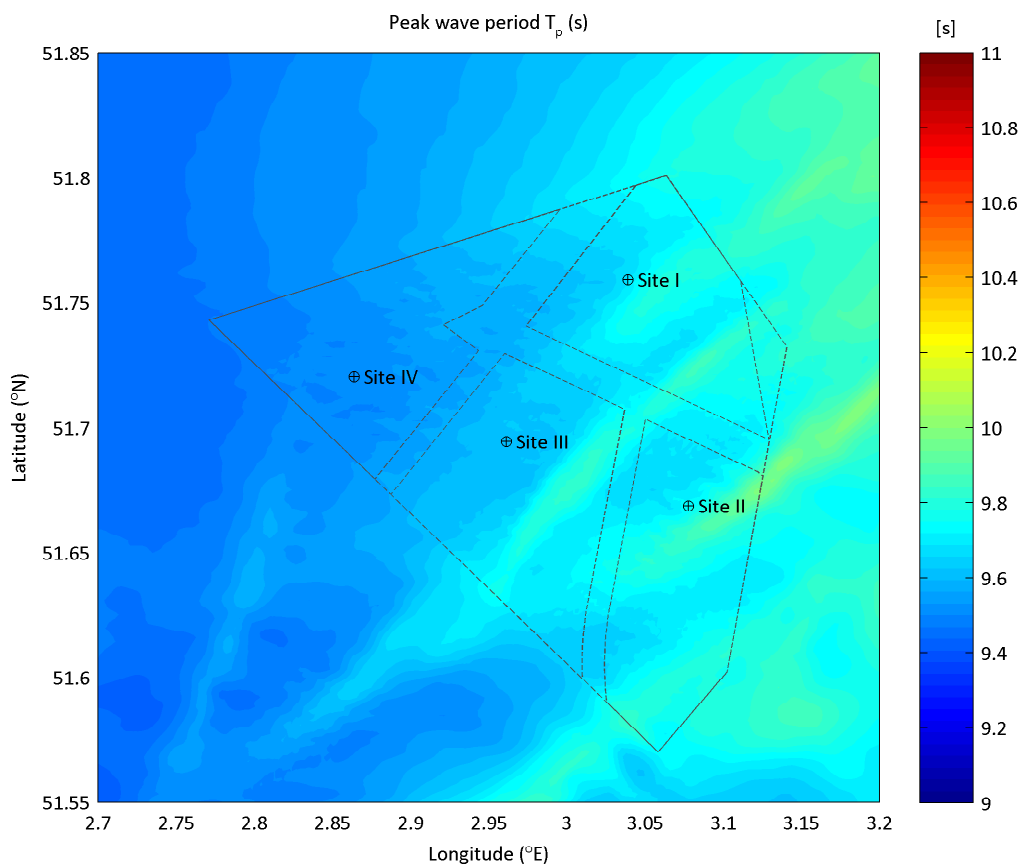
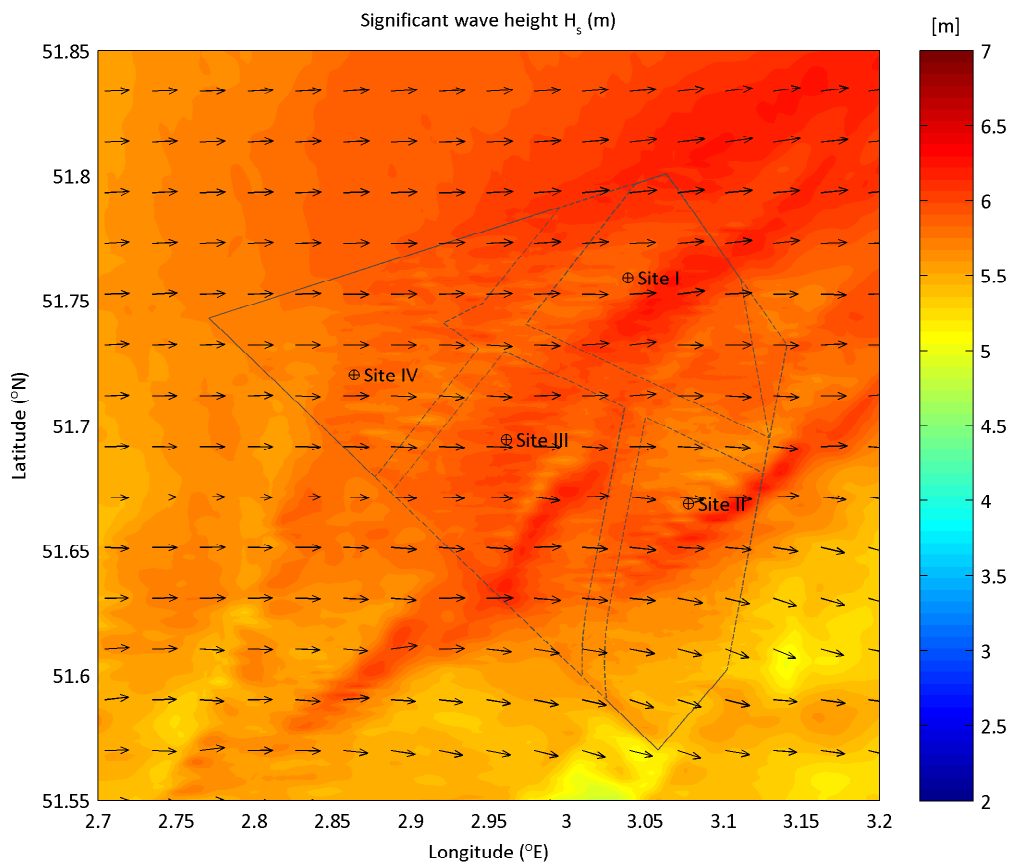
Extreme wave condition from Sector255 (°N) - 285 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 2yr

minimum still water level

App. B.4.056



Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

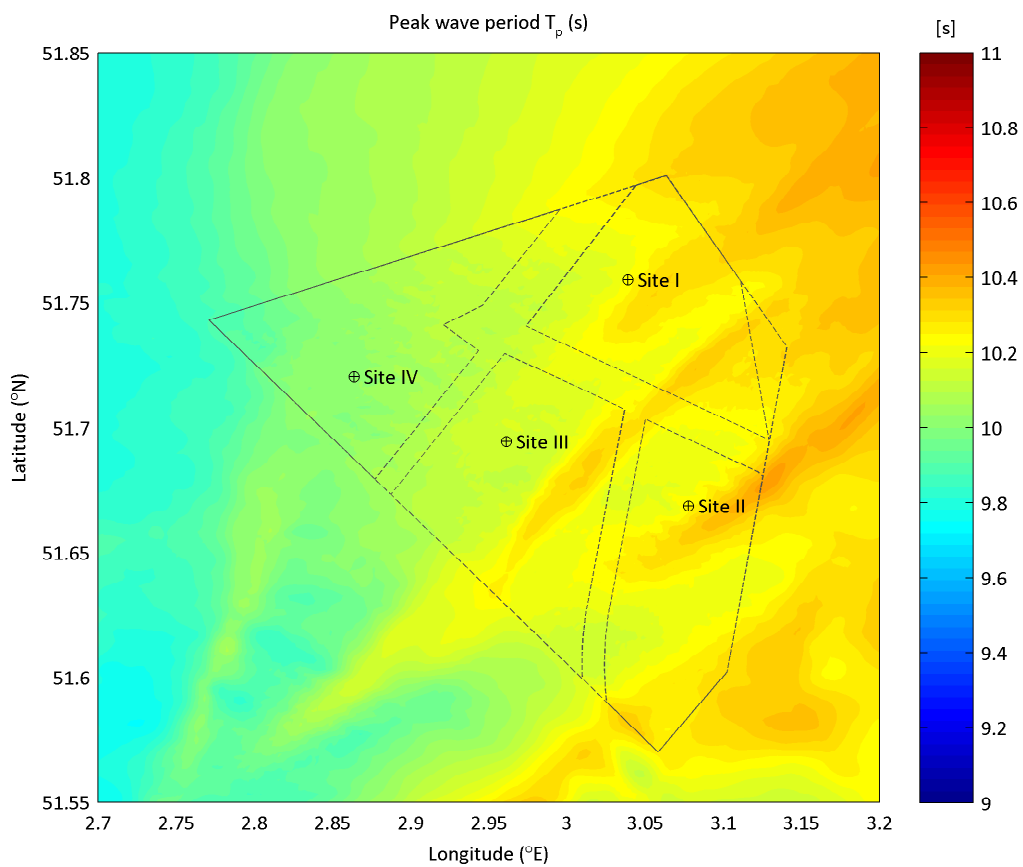
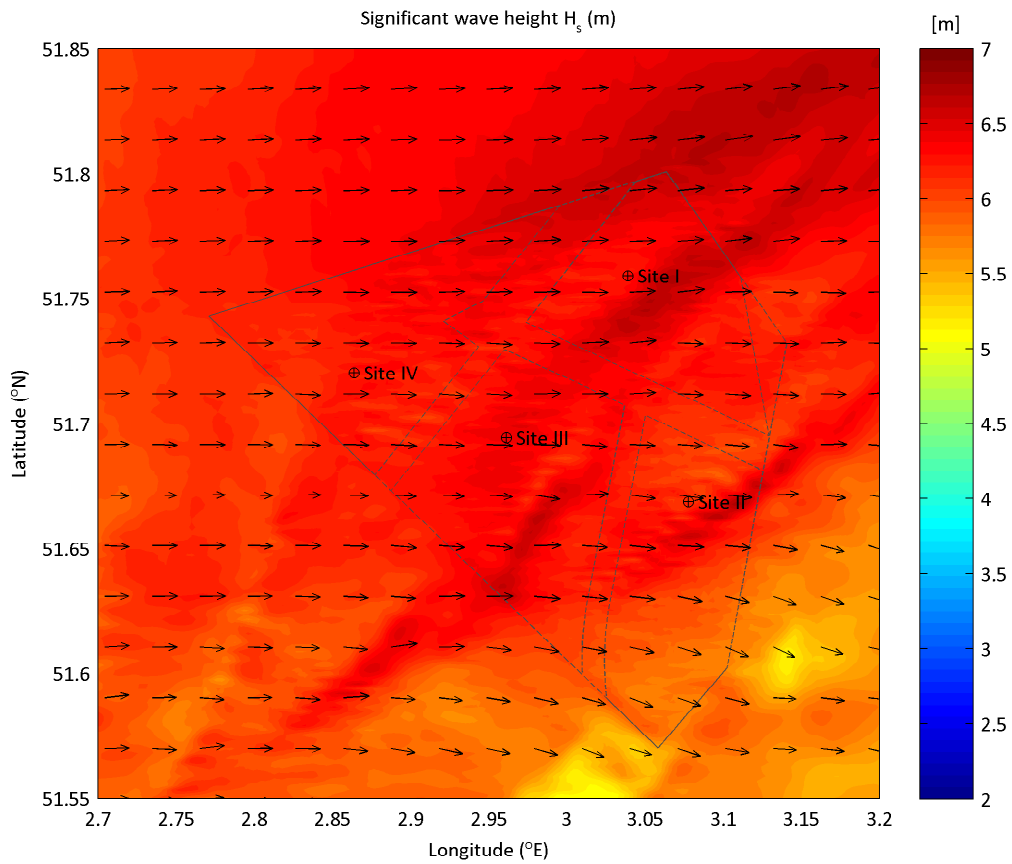
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.057



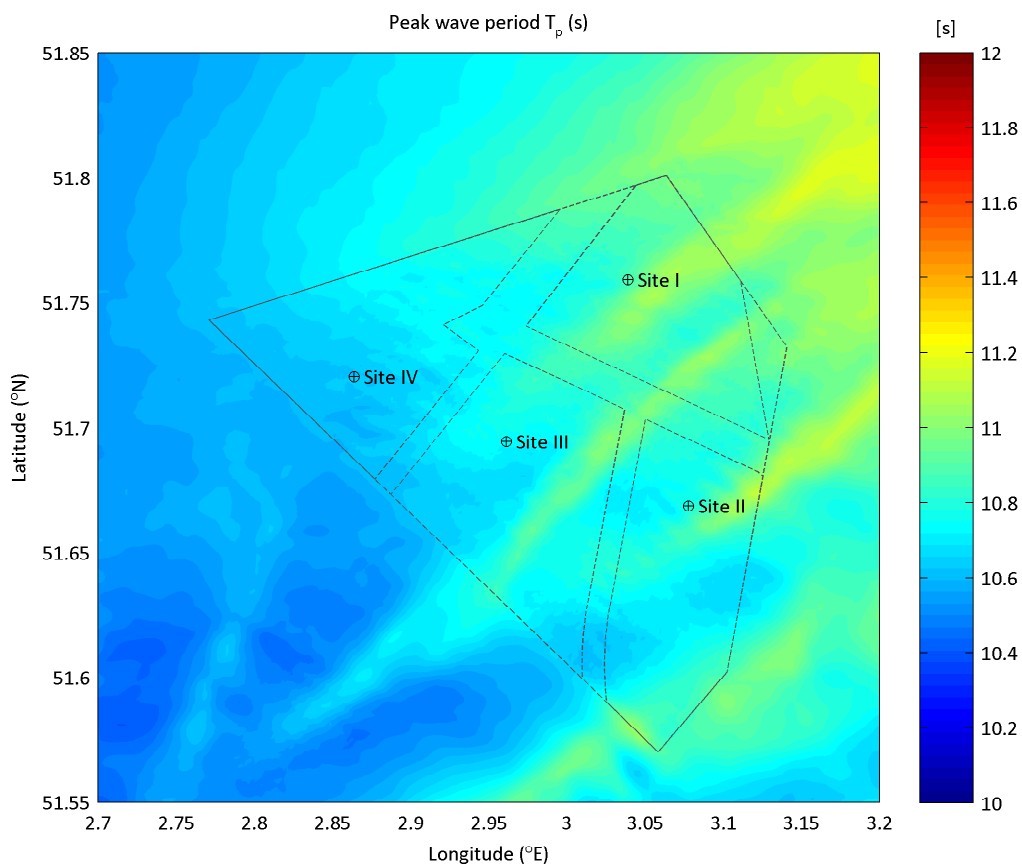
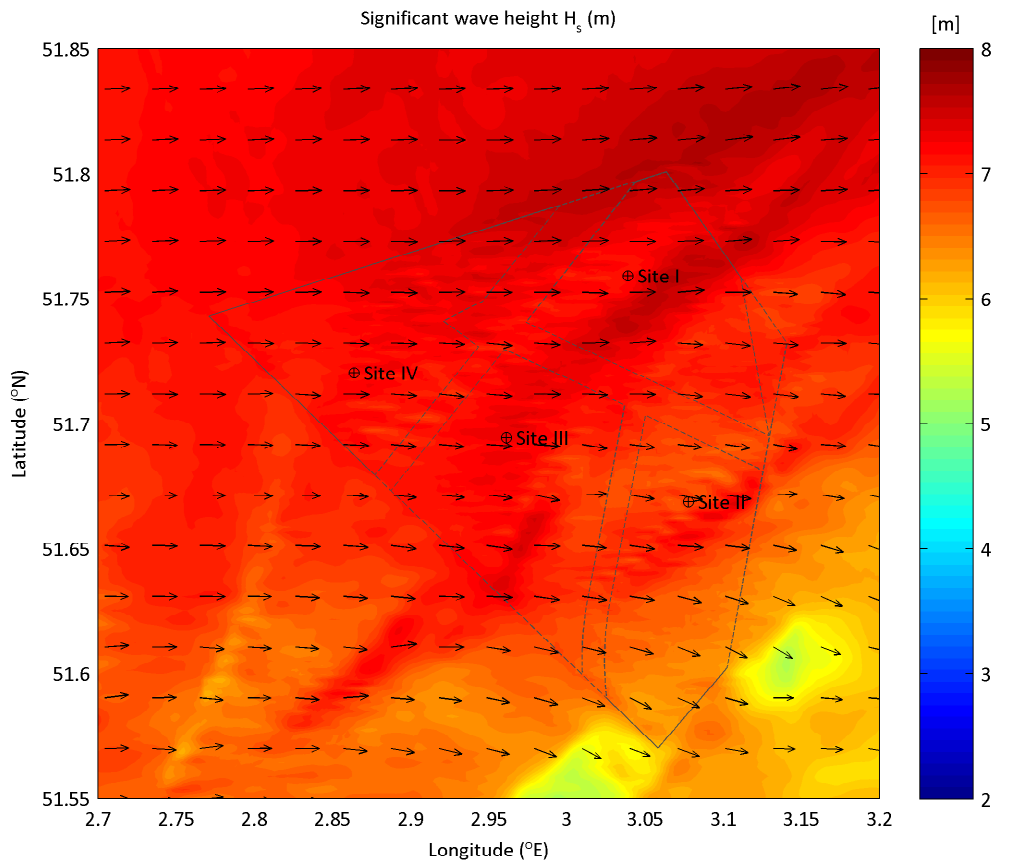
Extreme wave condition from Sector255 (°N) - 285 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 10yr

minimum still water level

Deltares

App. B.4.058



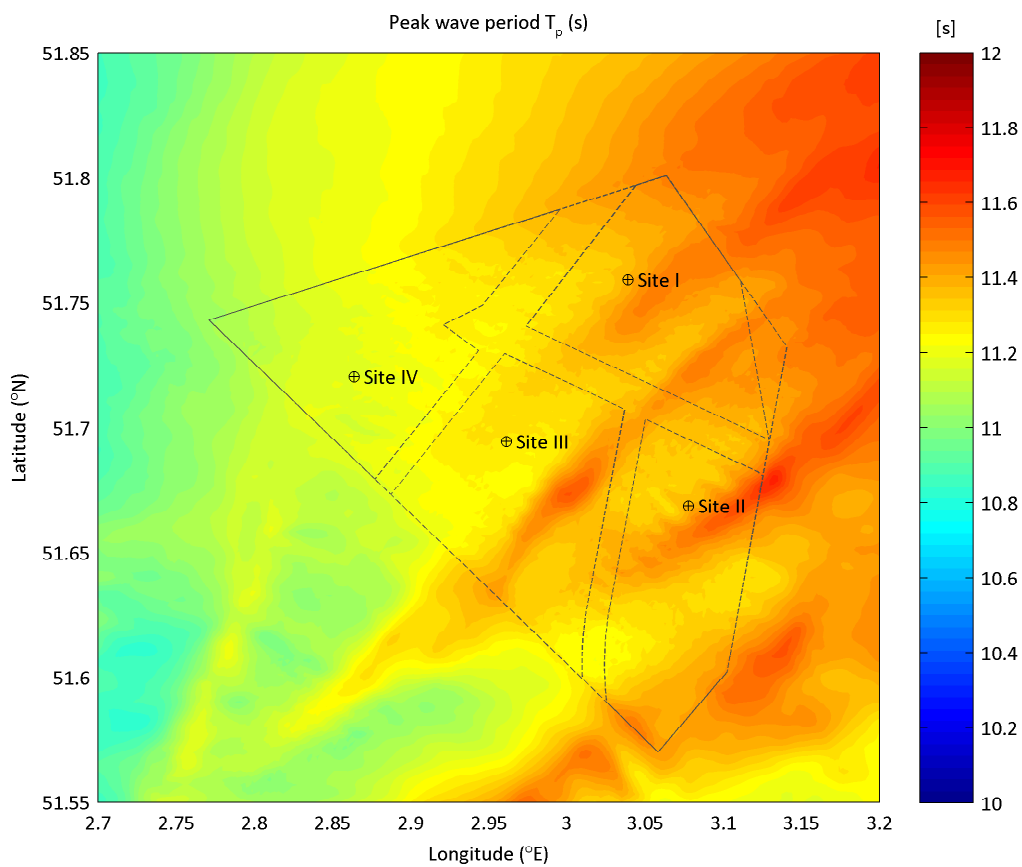
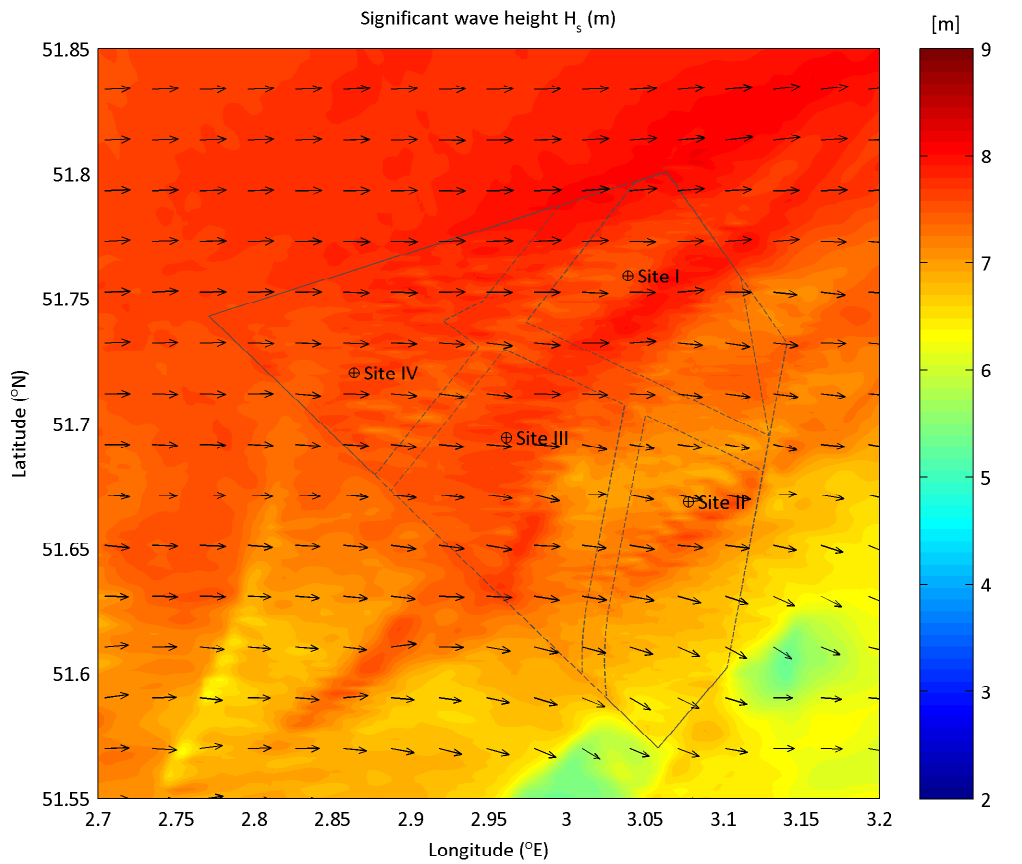
Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.059



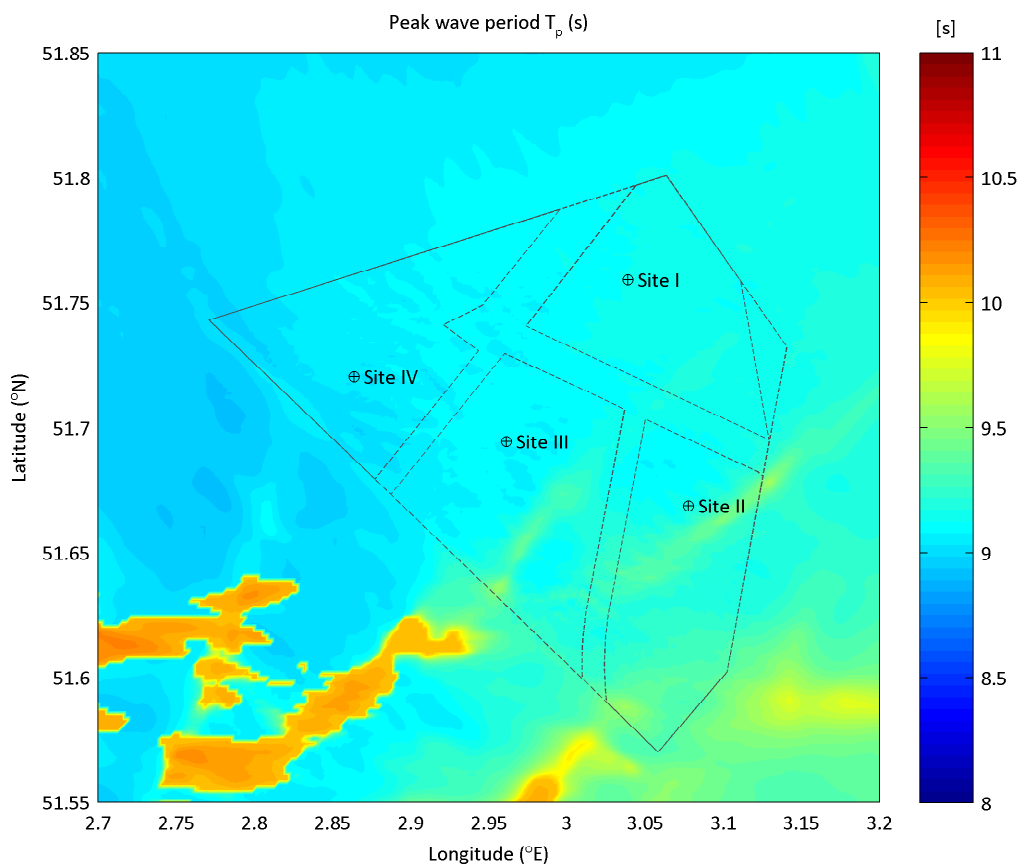
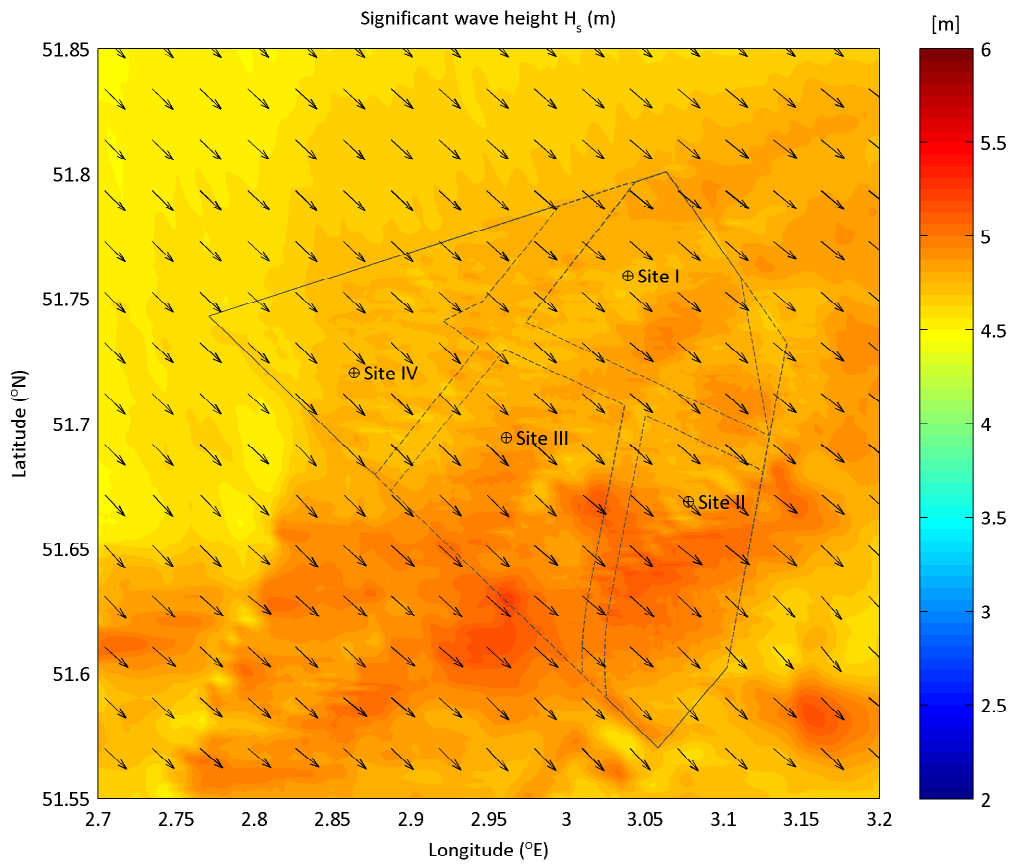
Extreme wave condition from Sector255 ($^{\circ}$ N) - 285 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.060



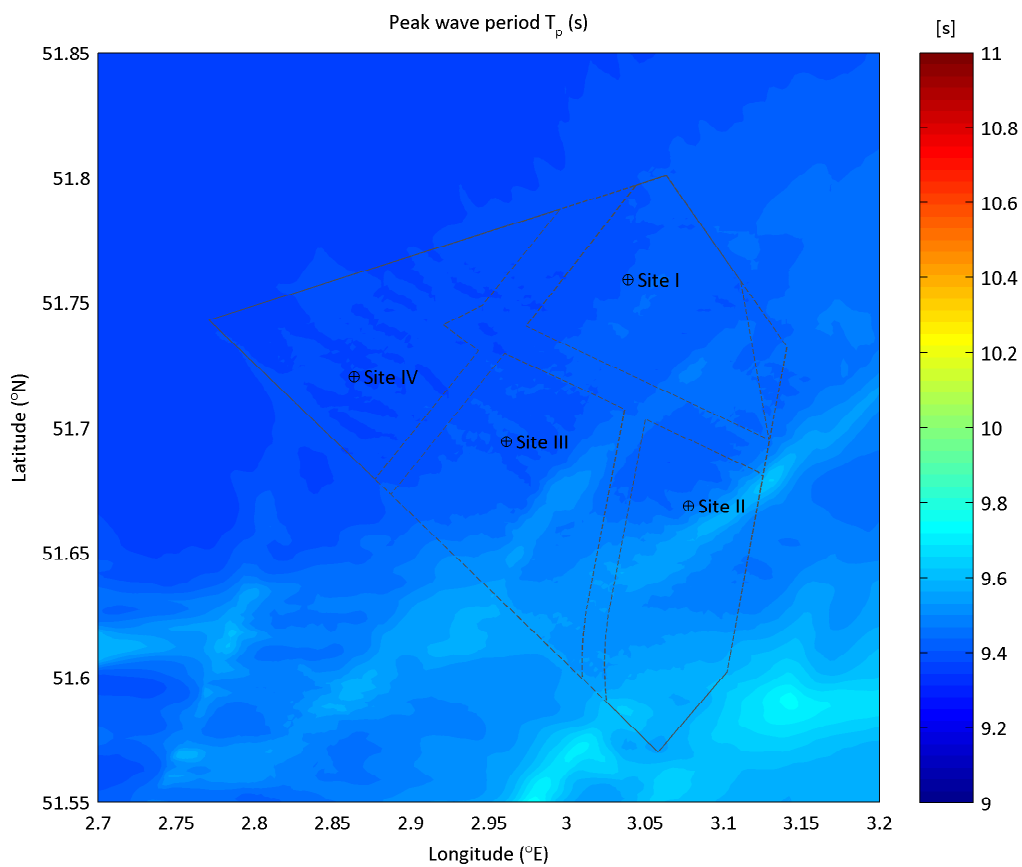
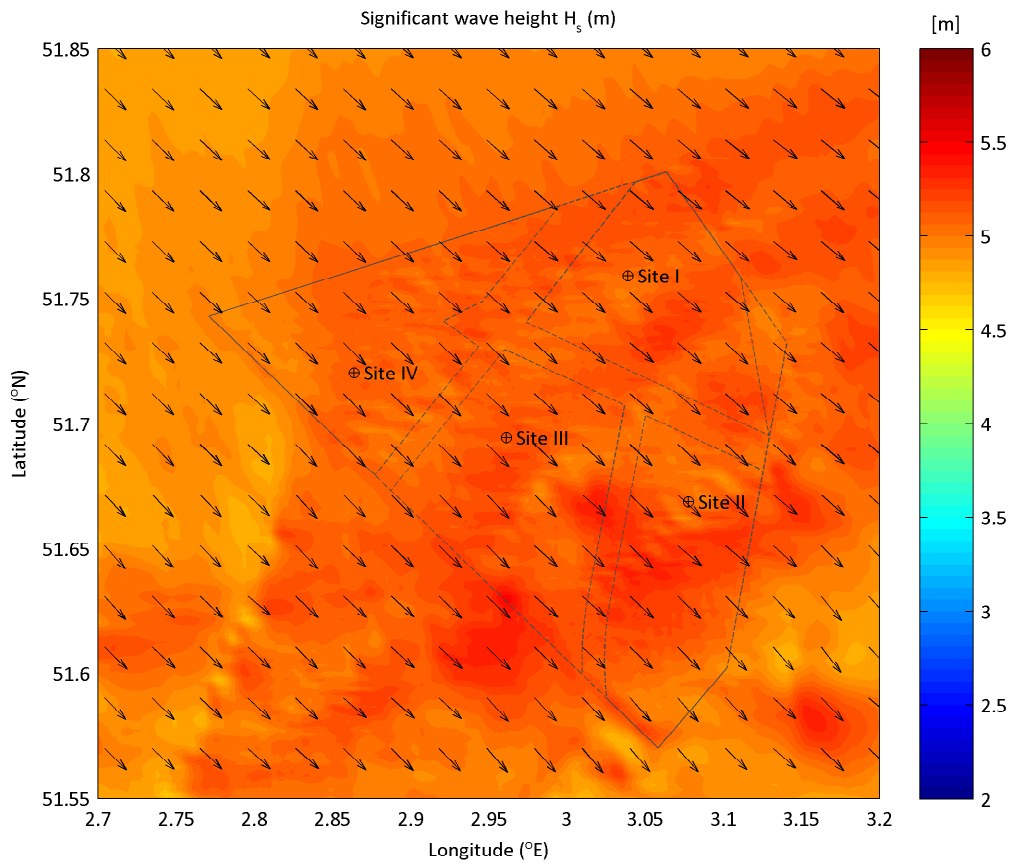
Extreme wave condition from Sector285 (°N) - 315 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 1yr

minimum still water level

App. B.4.061



Extreme wave condition from Sector285 (°N) - 315 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

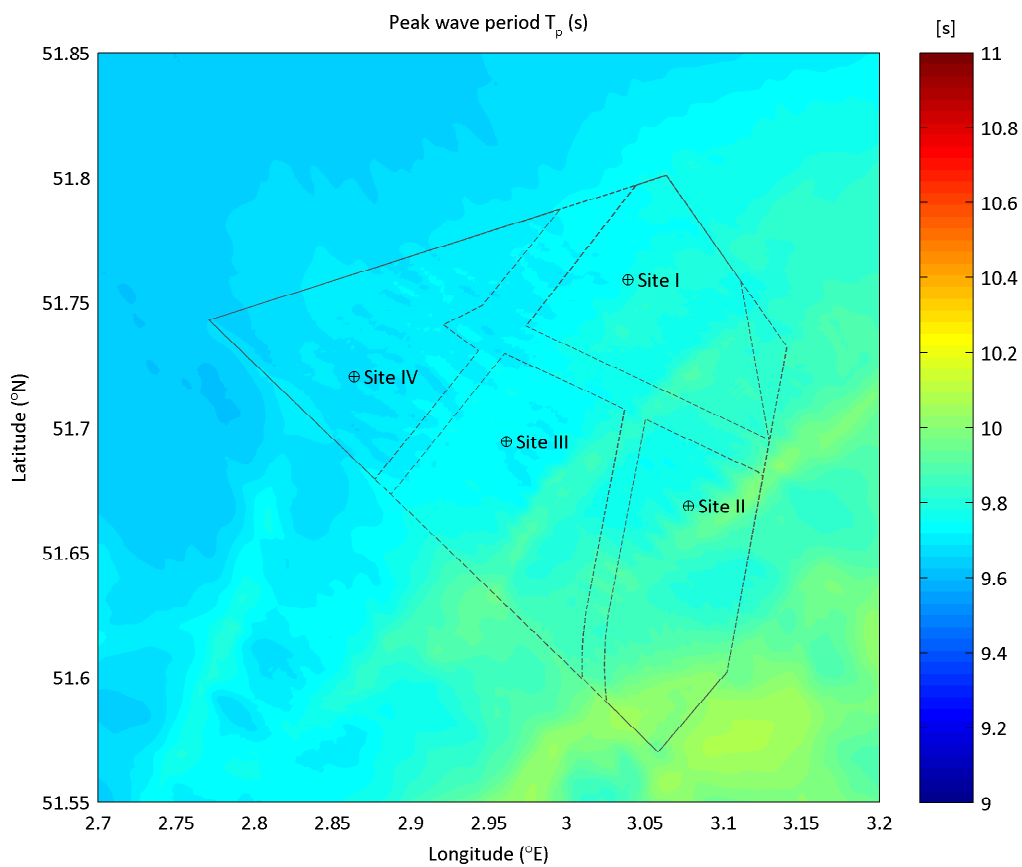
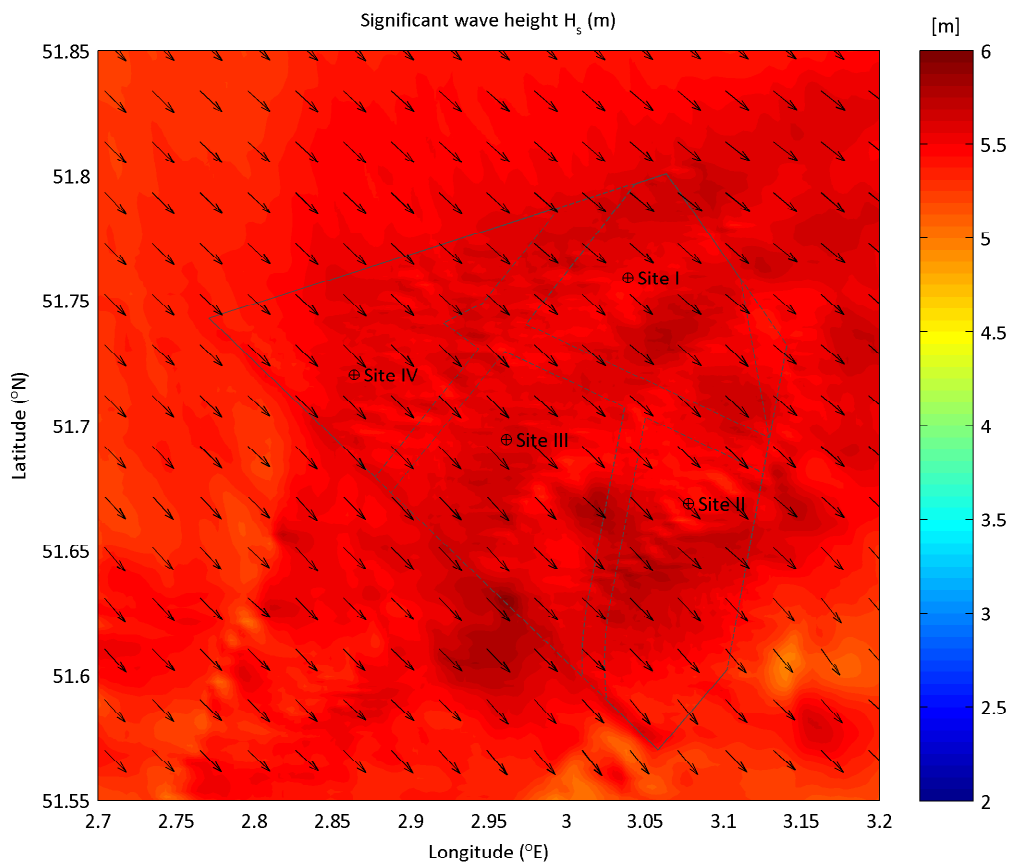
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.062



Extreme wave condition from Sector285 (°N) - 315 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

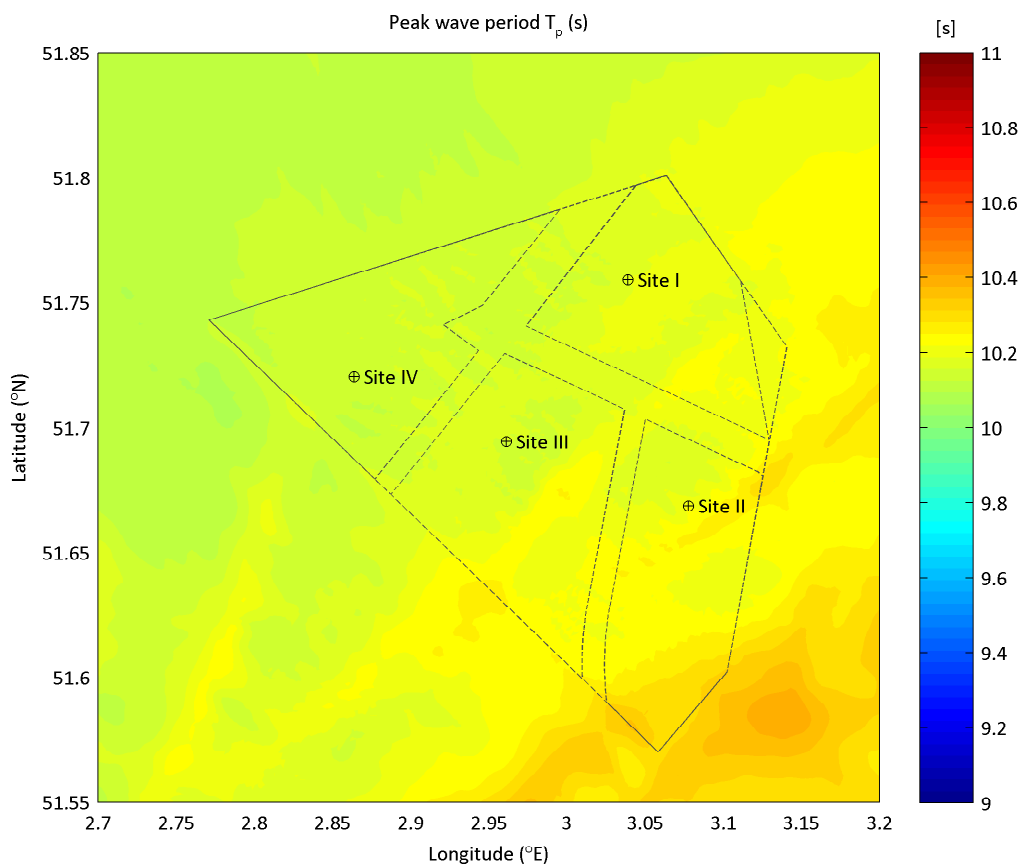
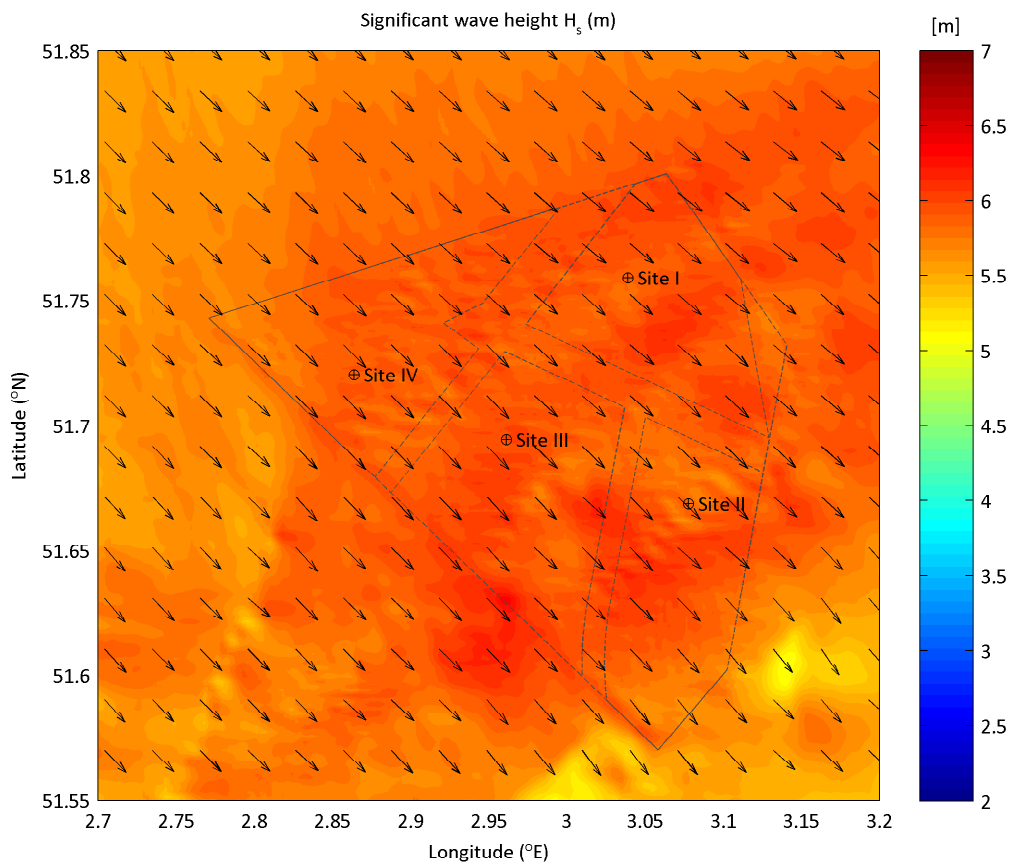
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.063



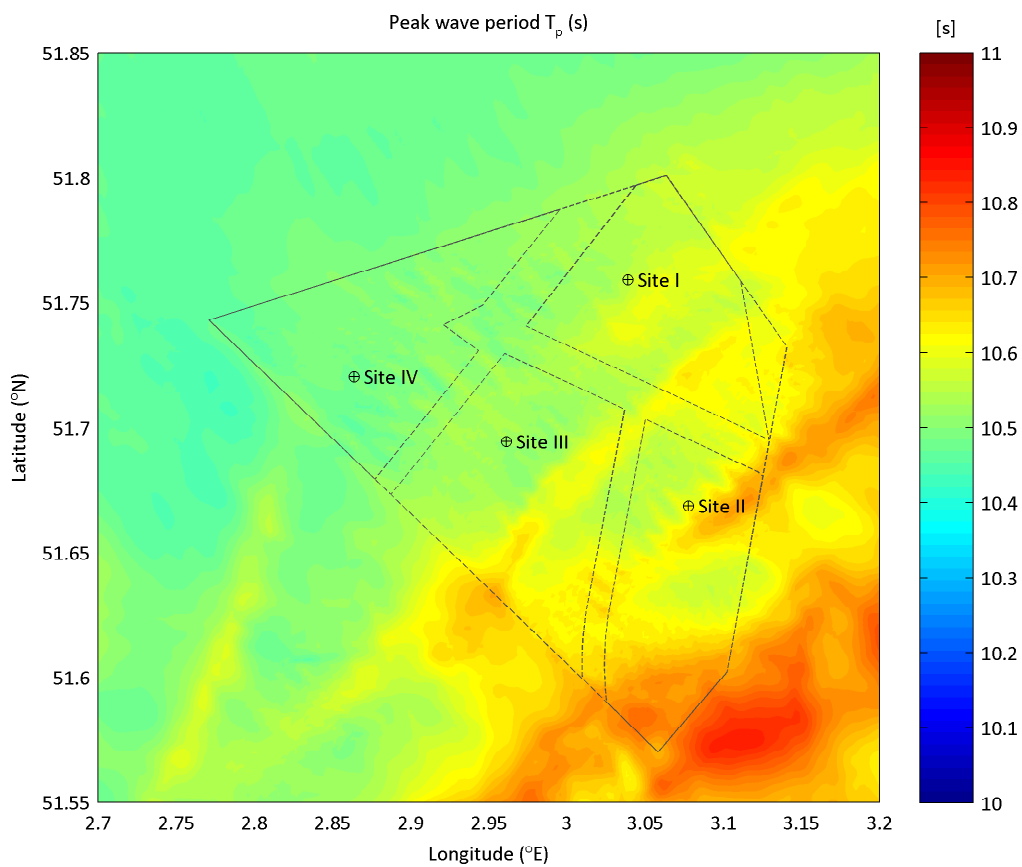
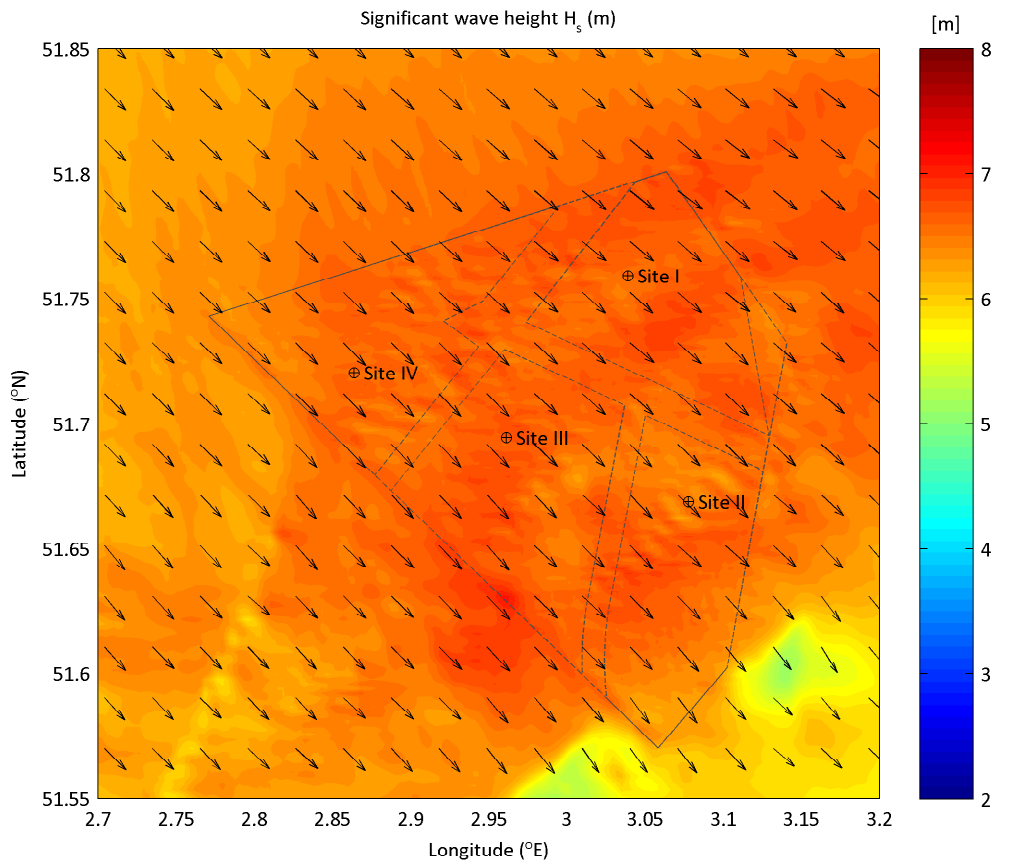
Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 10yr

minimum still water level

App. B.4.064



Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

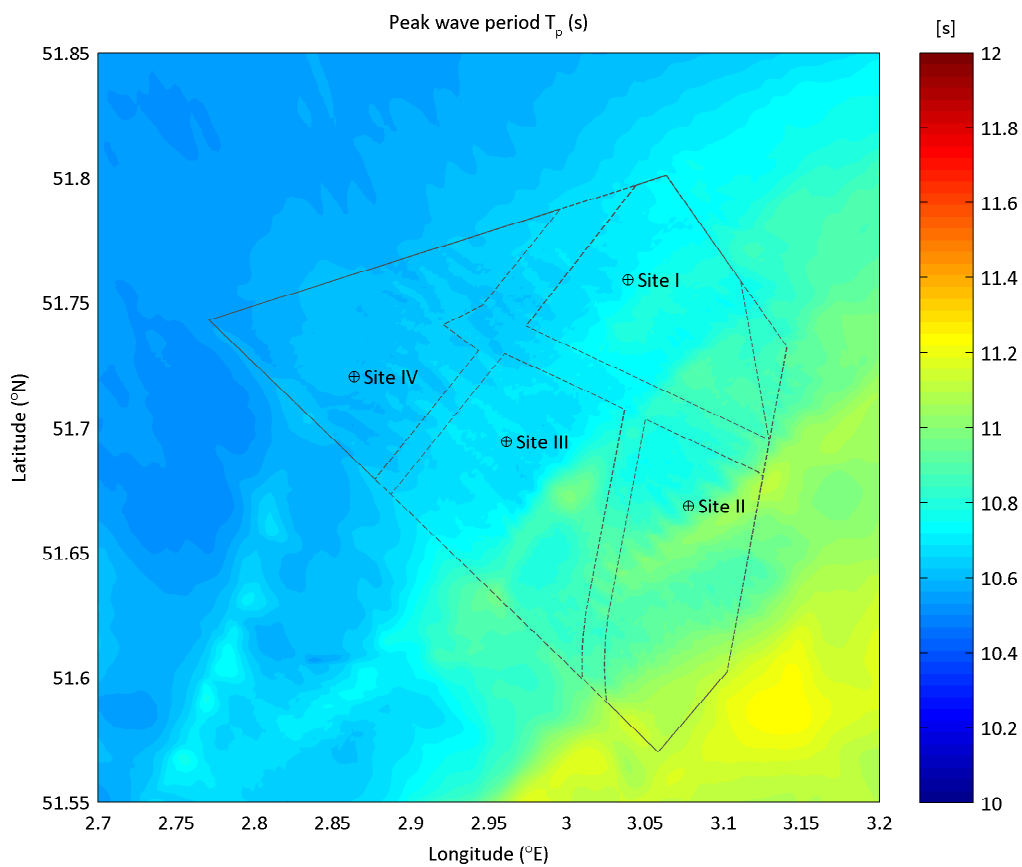
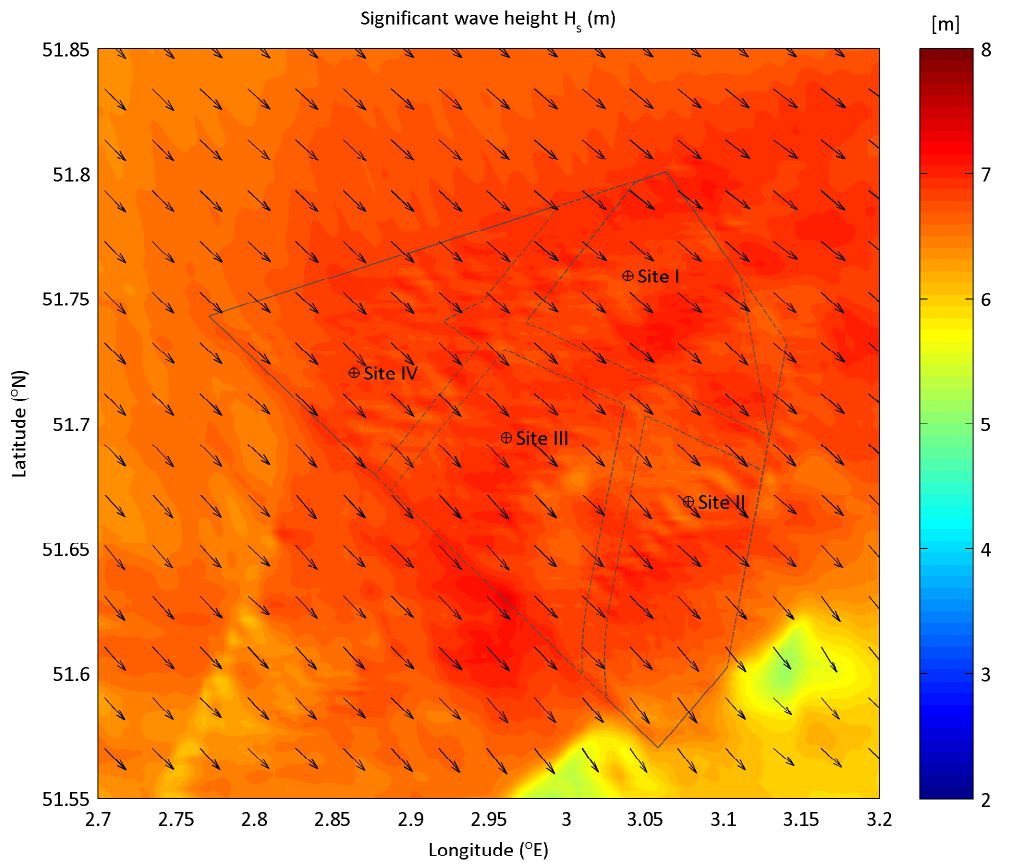
Nautical convention: coming from, clockwise from North

RP: 50yr

minimum still water level

Deltares

App. B.4.065



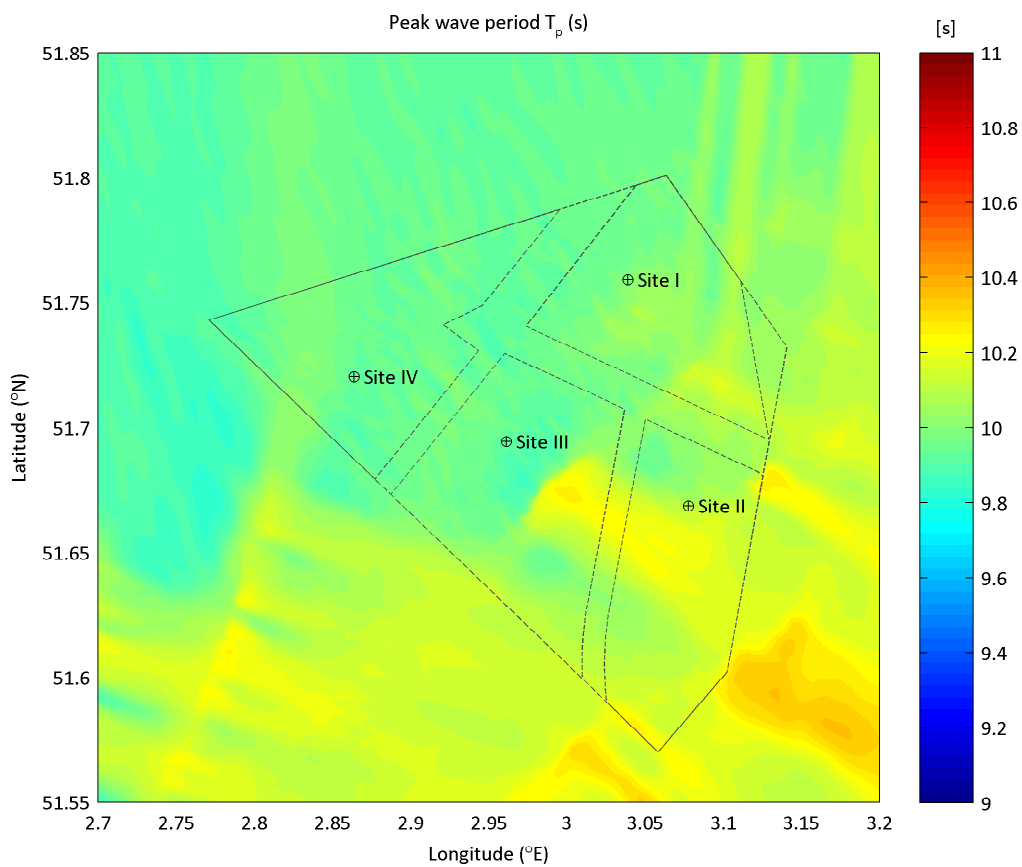
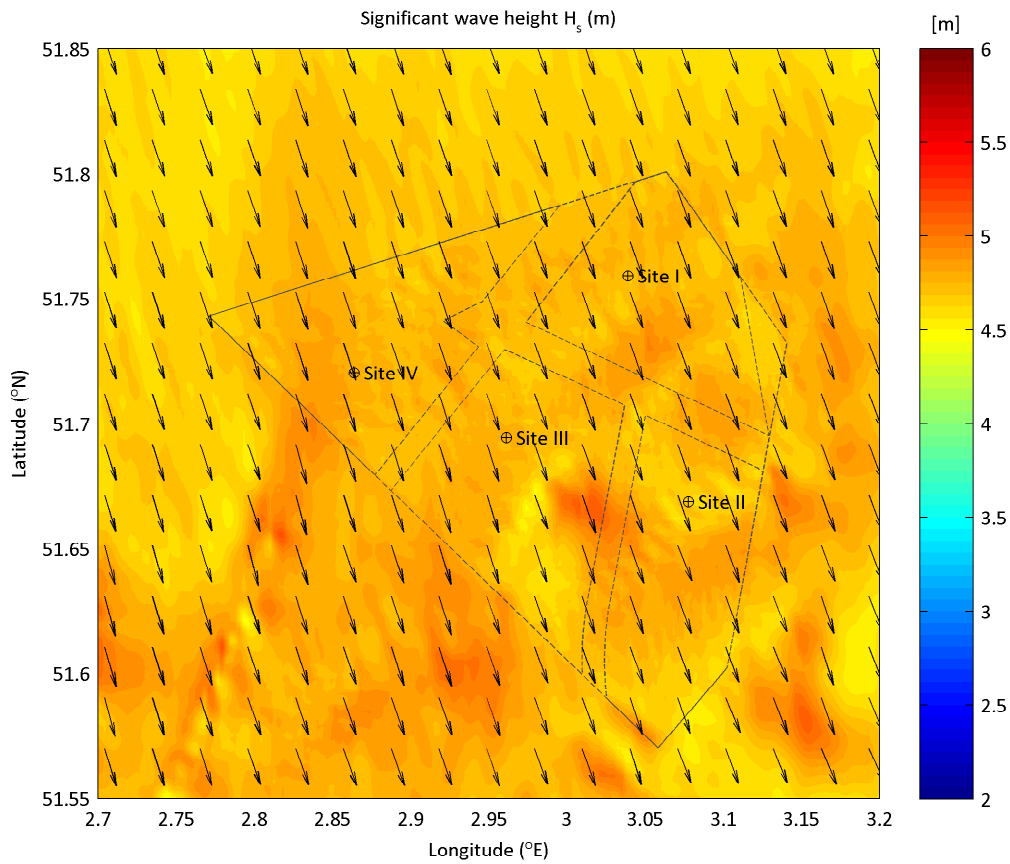
Extreme wave condition from Sector285 ($^{\circ}$ N) - 315 ($^{\circ}$ N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.066



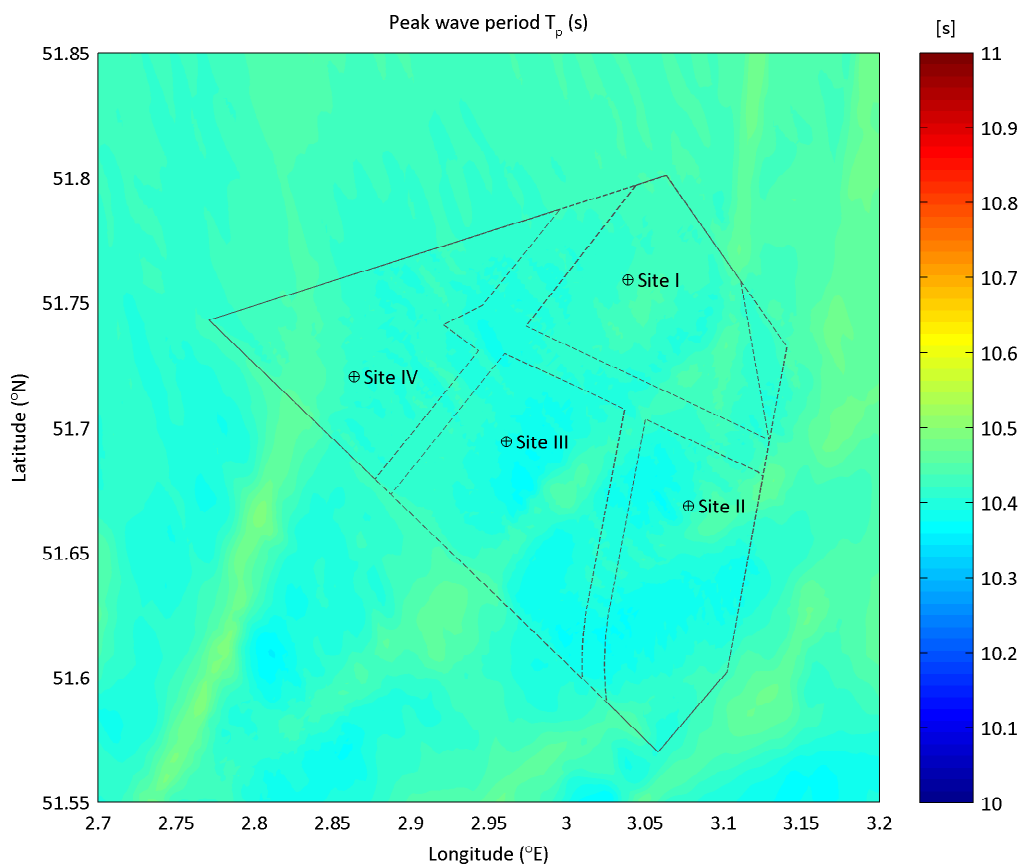
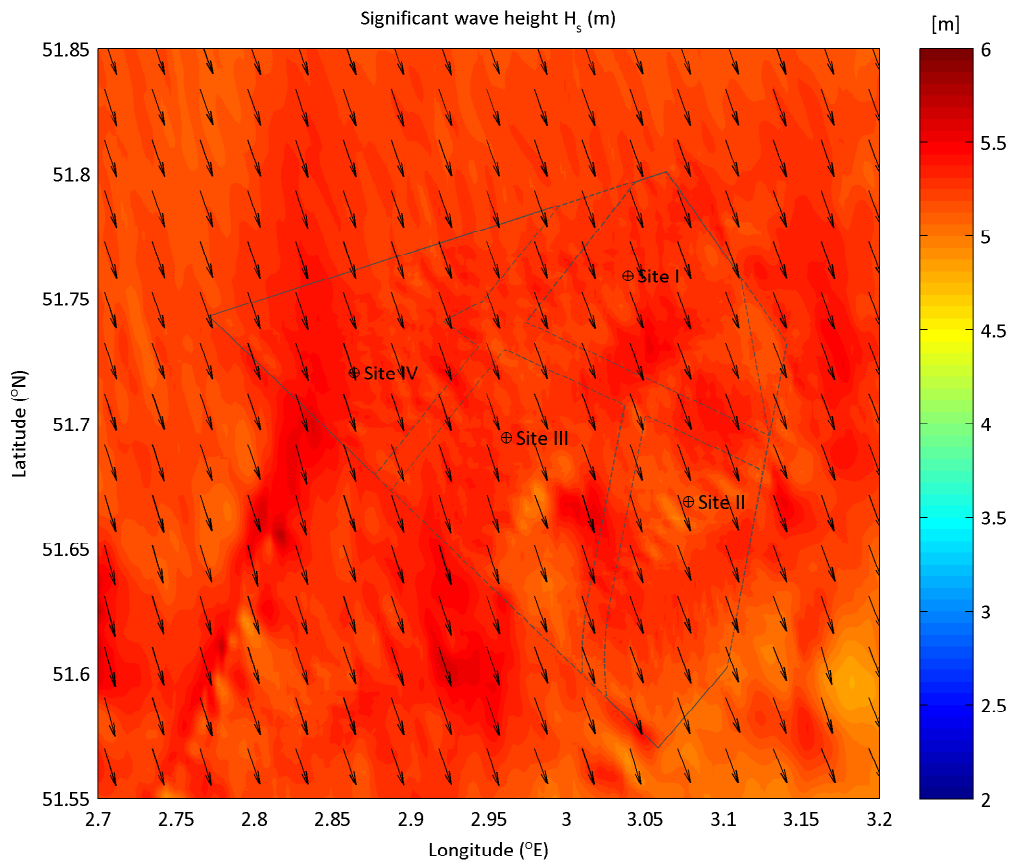
Extreme wave condition from Sector315 (°N) - 345 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 1yr

minimum still water level

App. B.4.067



Extreme wave condition from Sector315 (°N) - 345 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

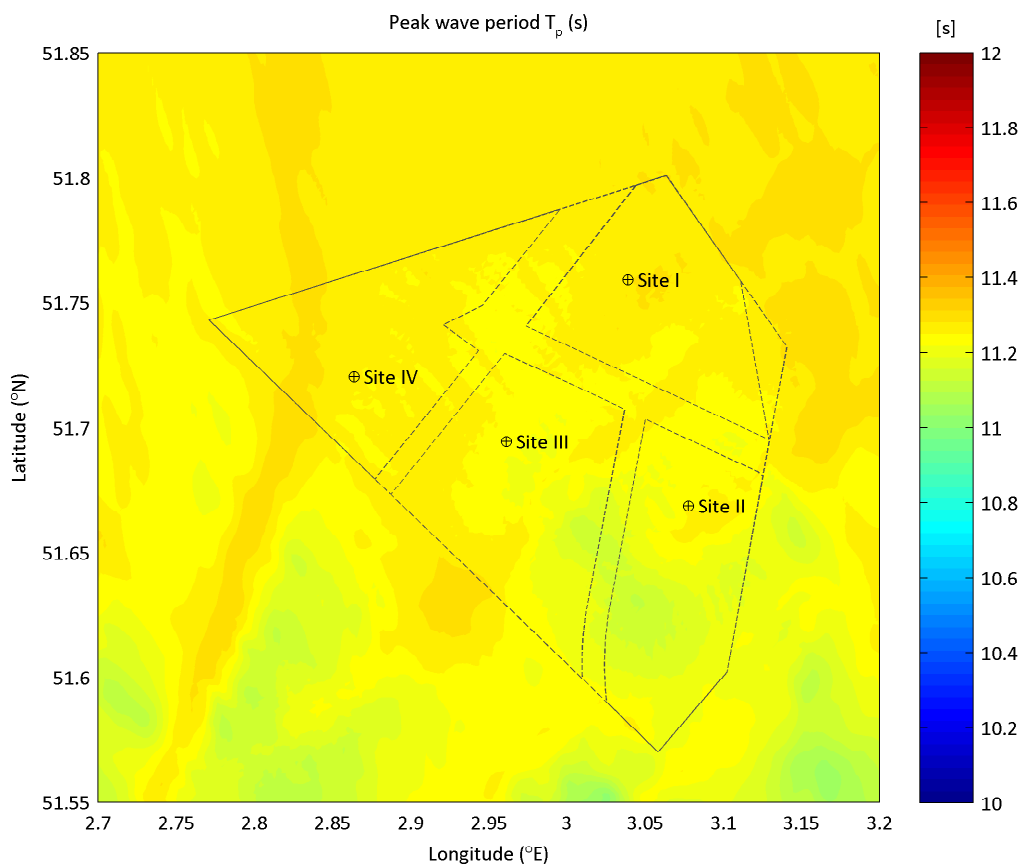
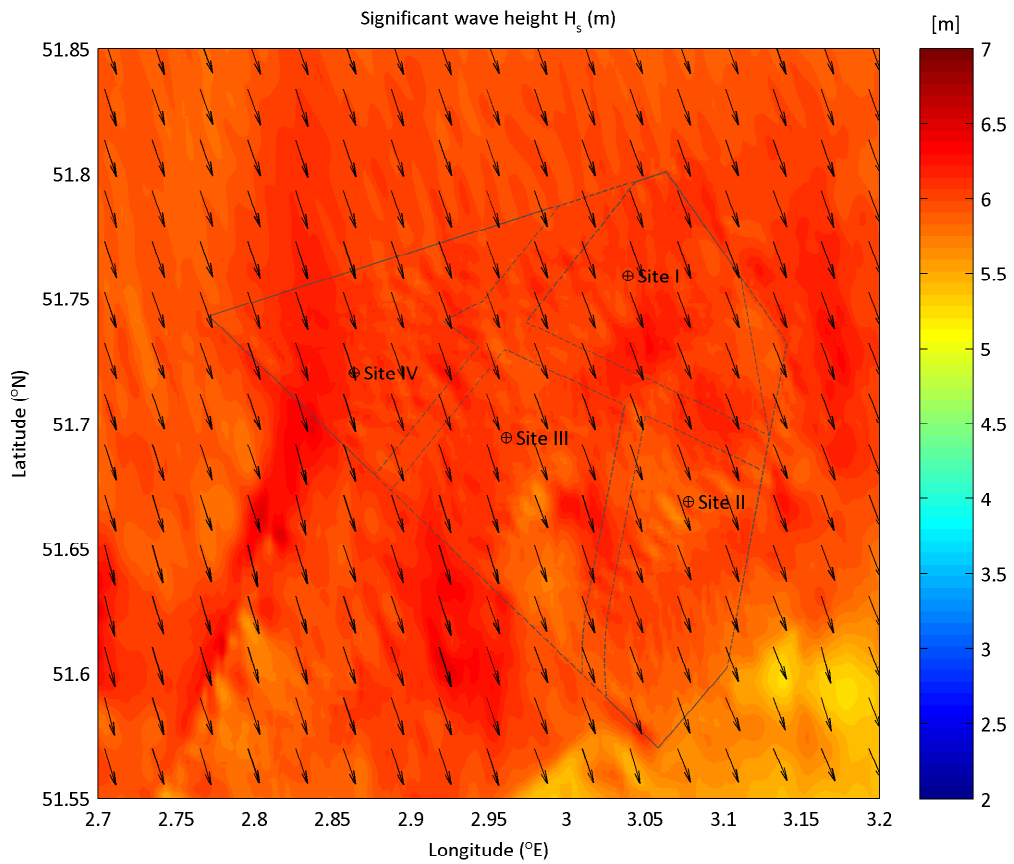
Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.068



Extreme wave condition from Sector315 (°N) - 345 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

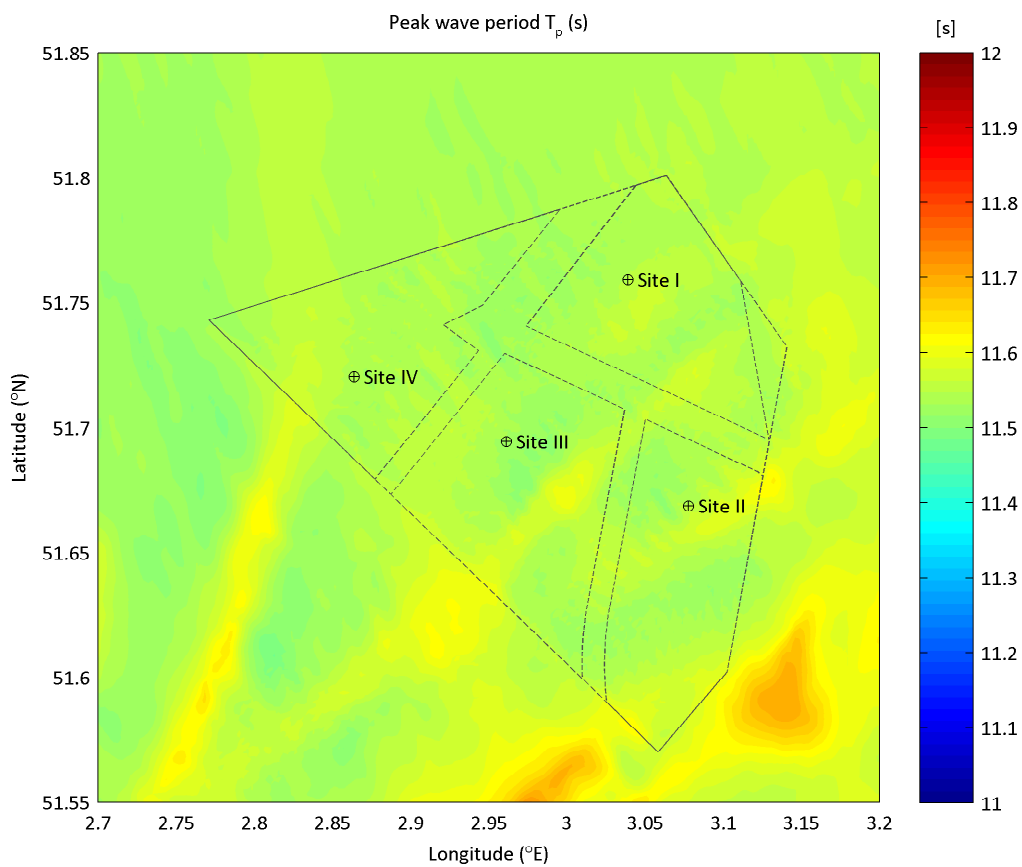
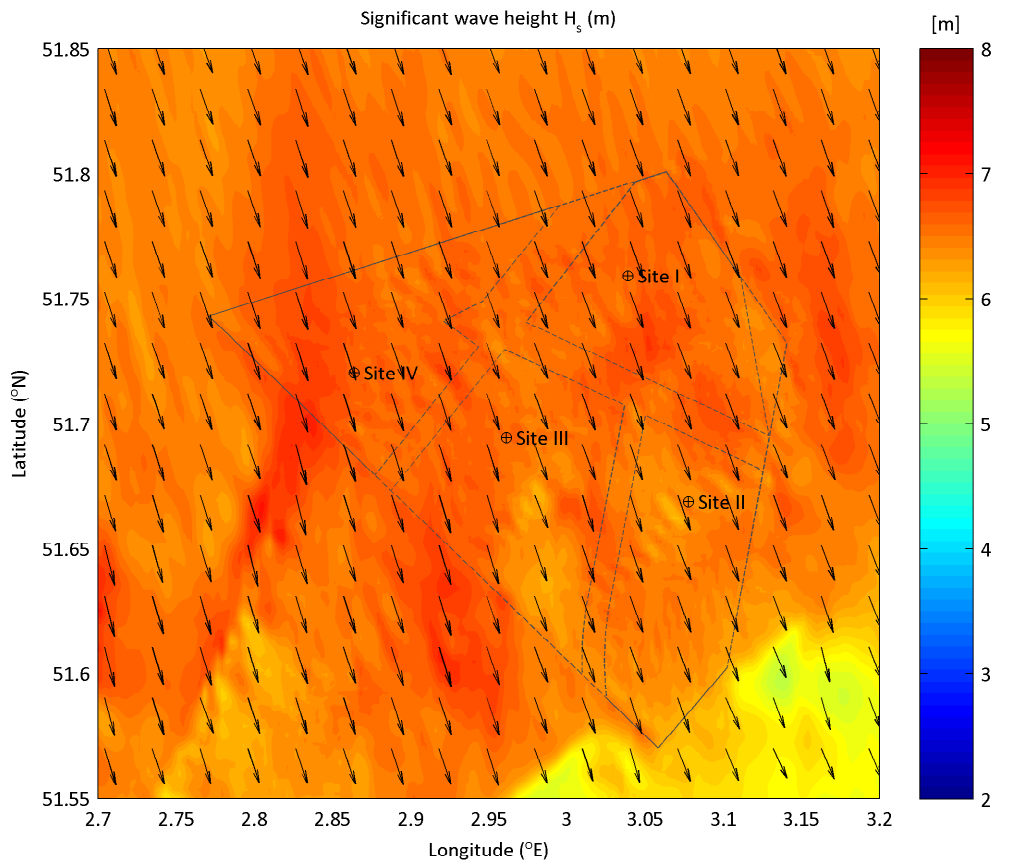
Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.069



Extreme wave condition from Sector315 (°N) - 345 (°N)
upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)

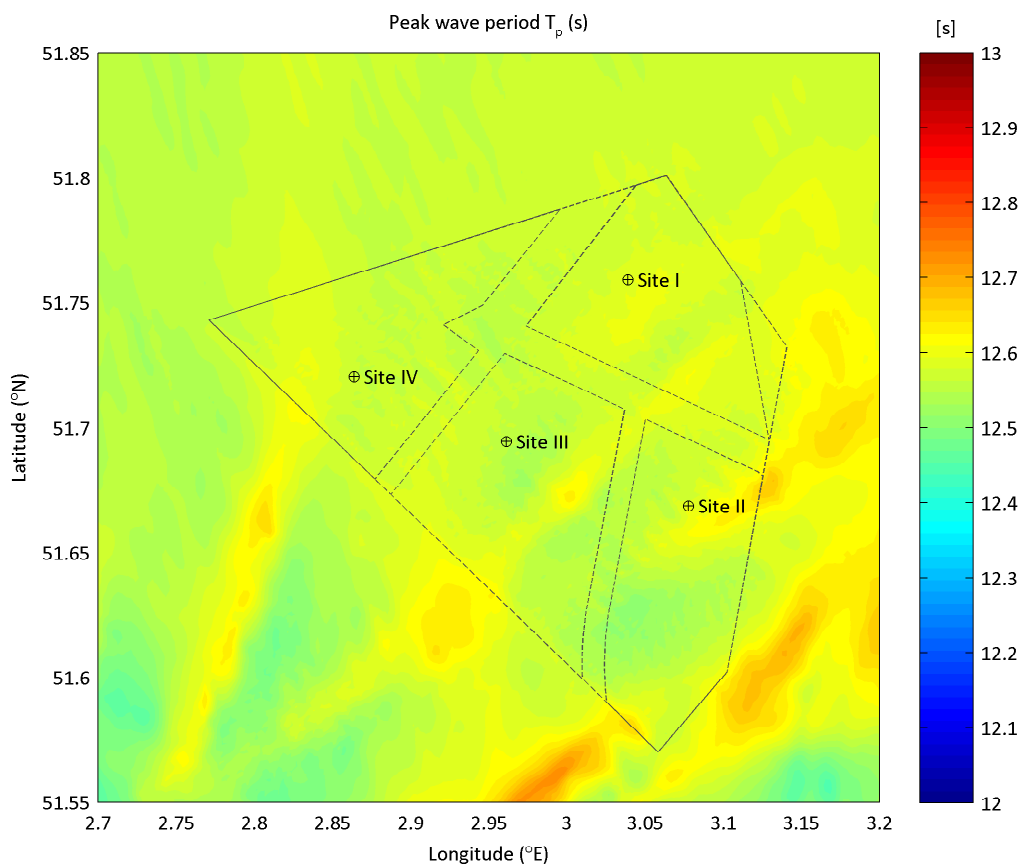
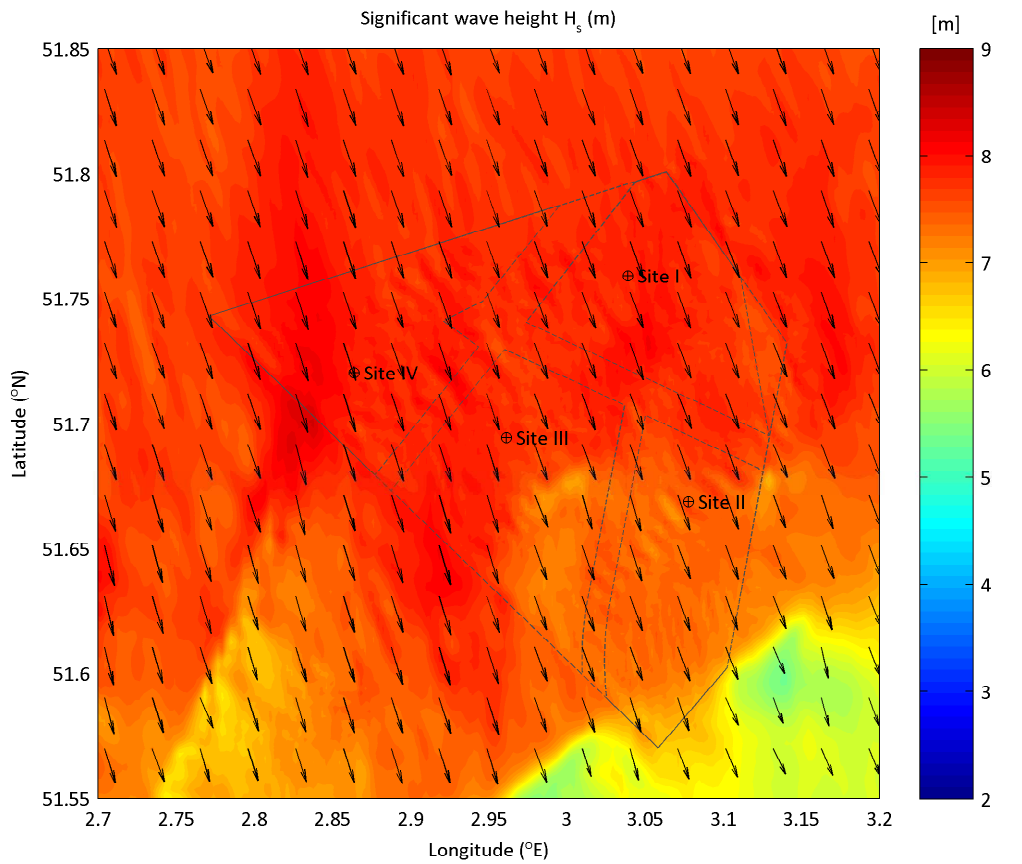
Nautical convention: coming from, clockwise from North

RP: 10yr

minimum still water level

Deltares

App. B.4.070



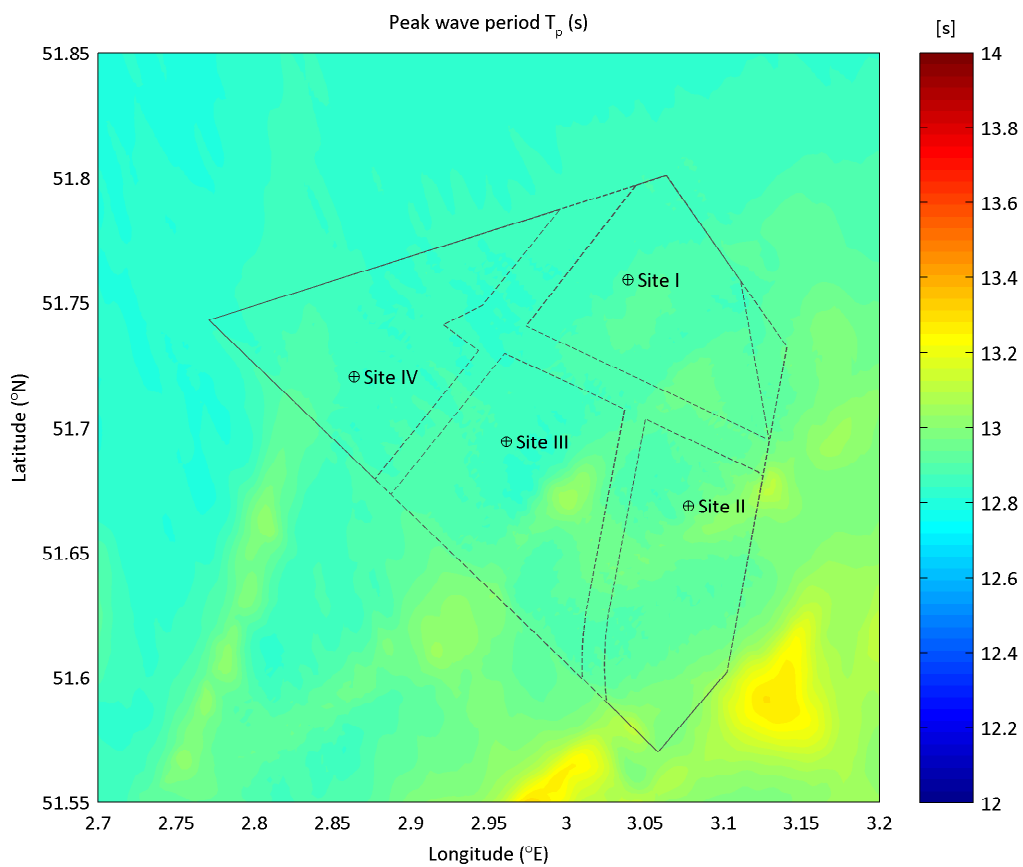
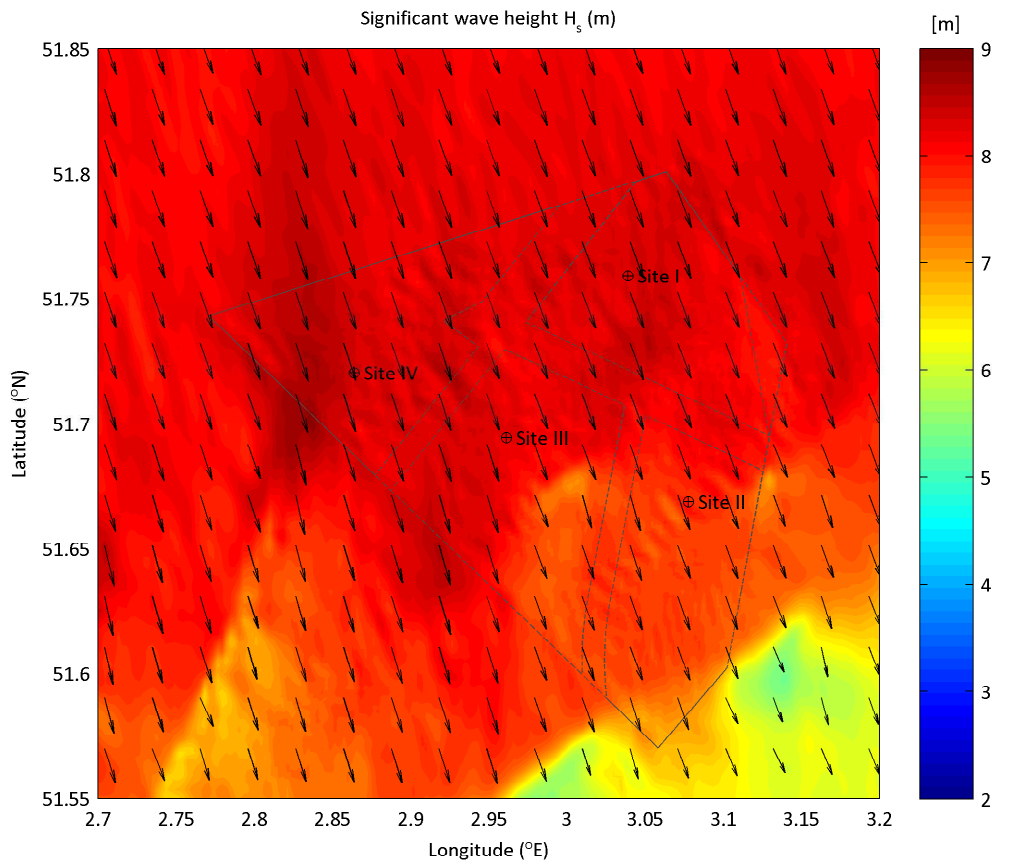
Extreme wave condition from Sector315 (°N) - 345 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 50yr

minimum still water level

App. B.4.071



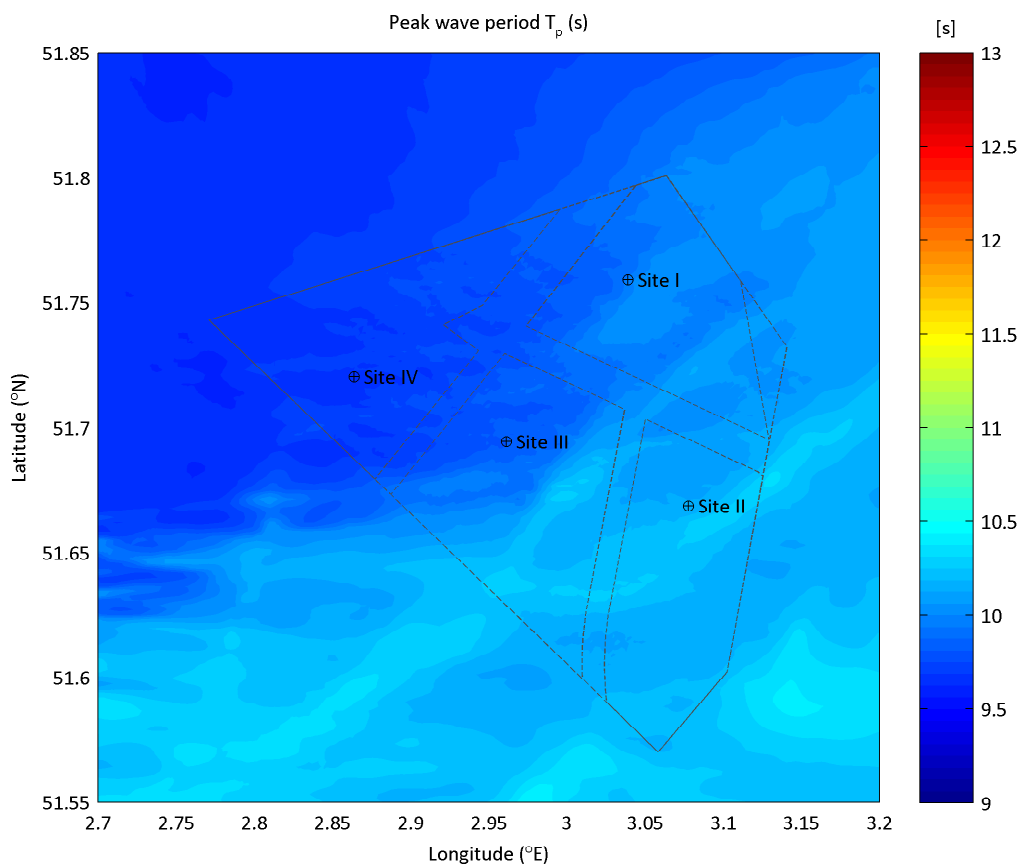
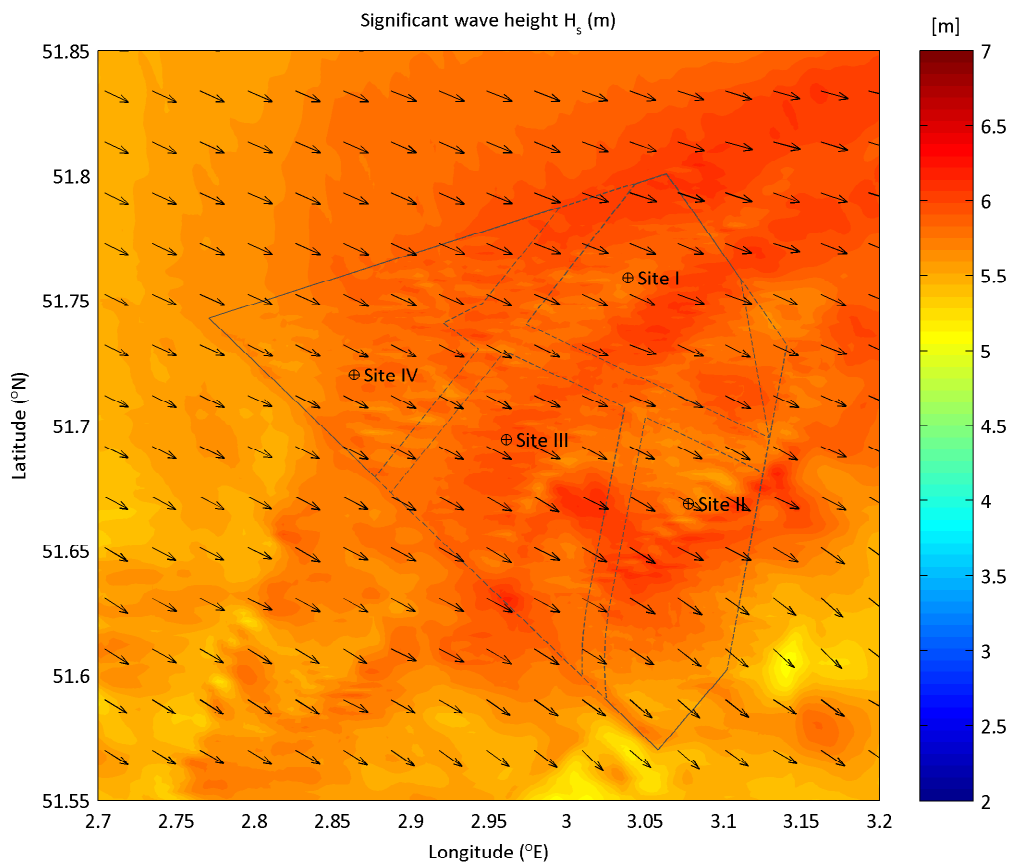
Extreme wave condition from Sector315 (°N) - 345 (°N)
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

Deltares

RP: 100yr

minimum still water level

App. B.4.072



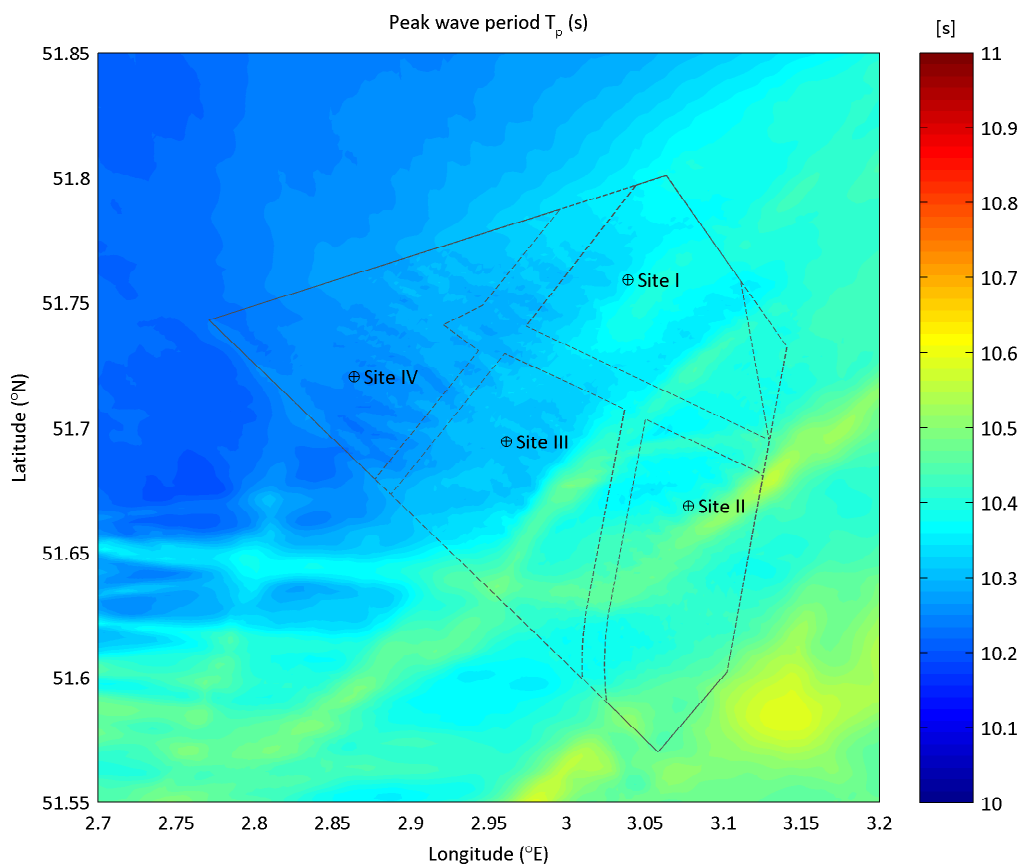
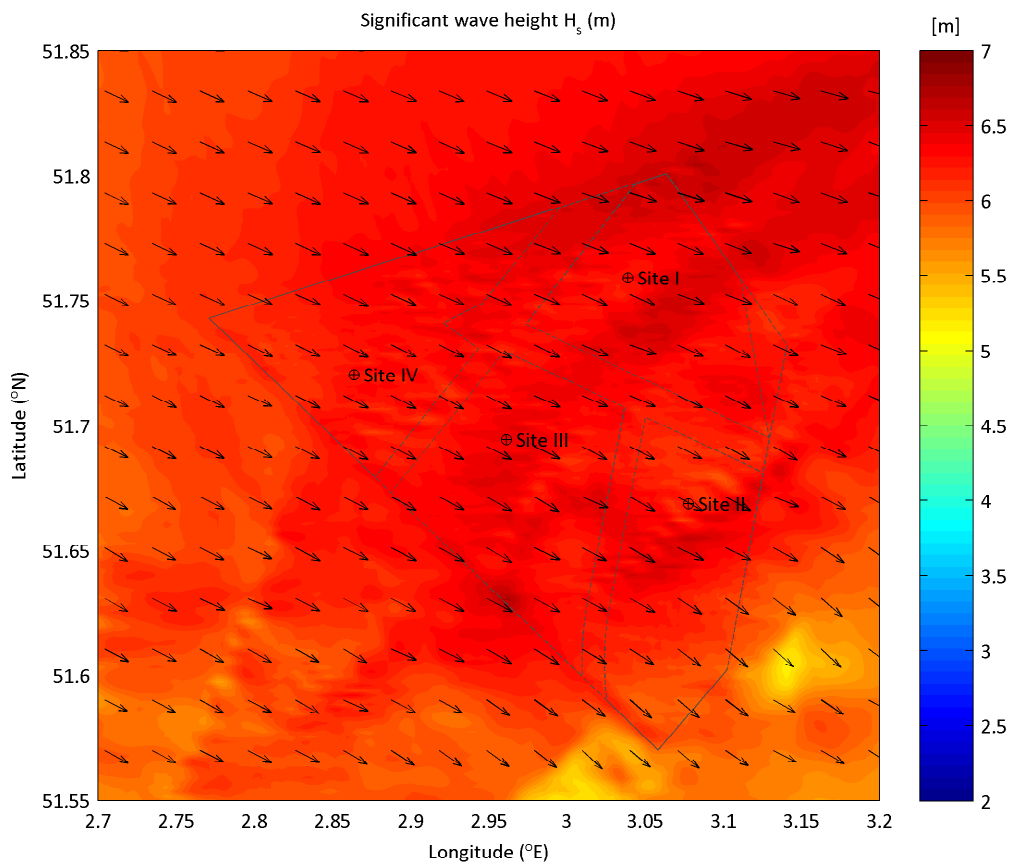
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 1yr

minimum still water level

Deltares

App. B.4.073



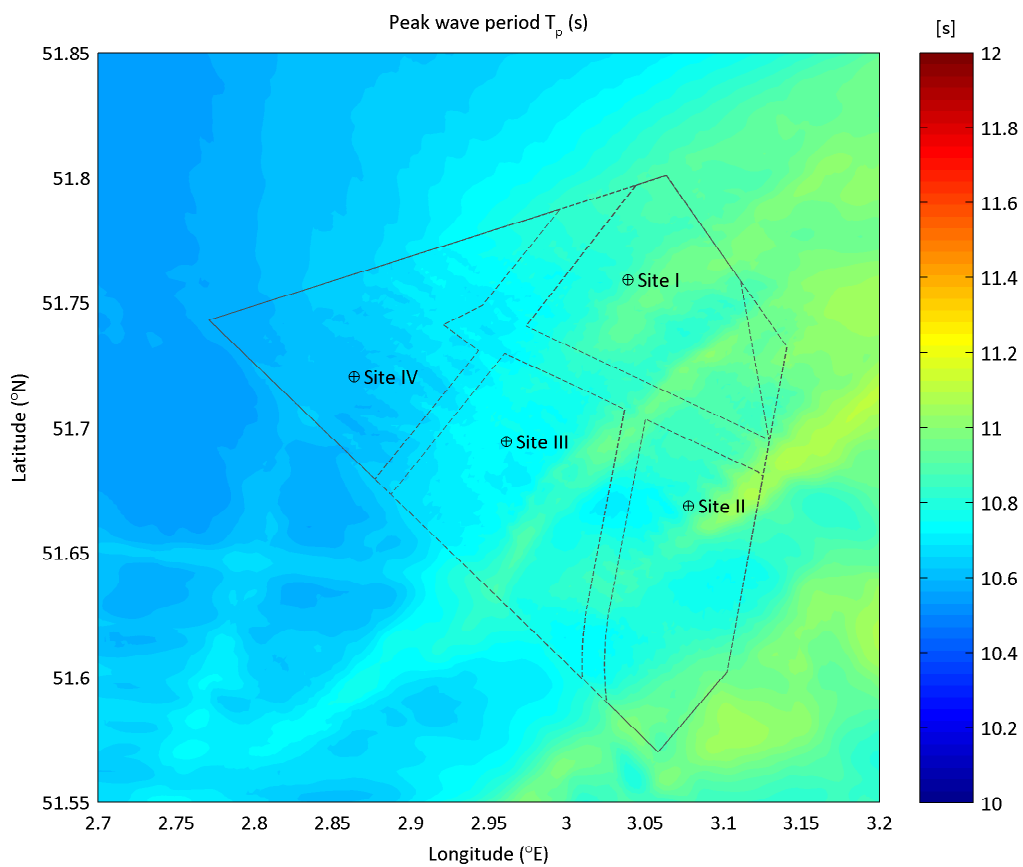
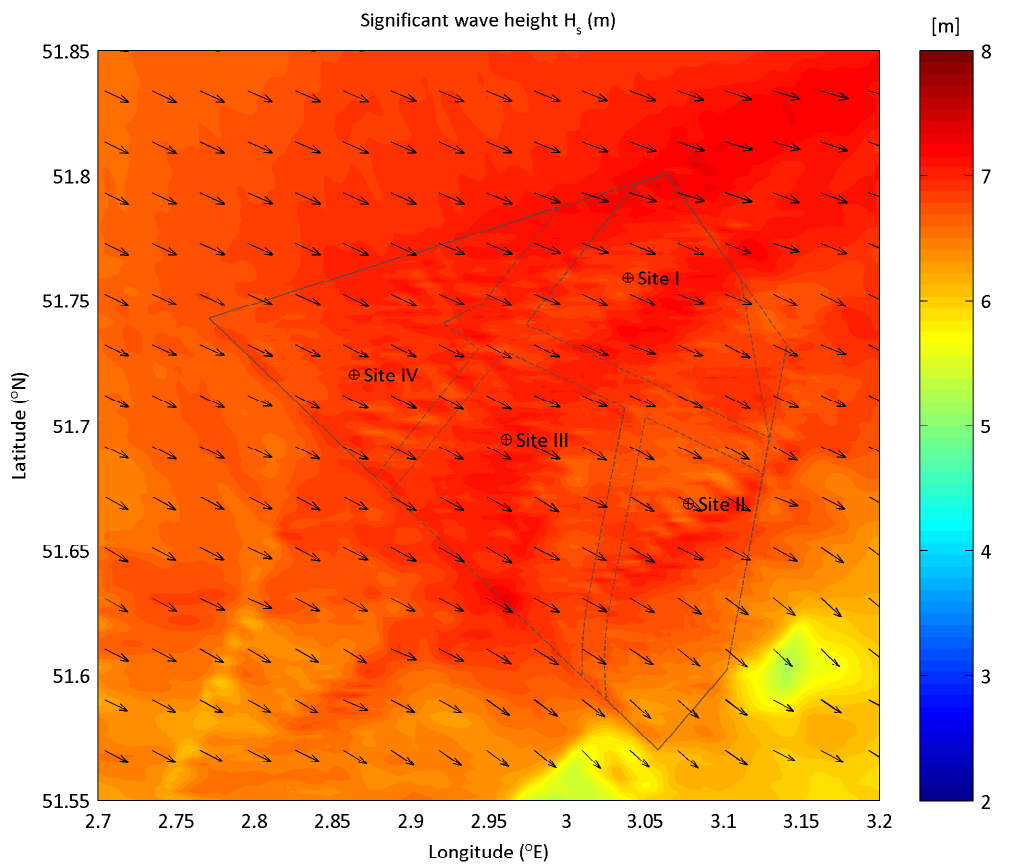
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 2yr

minimum still water level

Deltares

App. B.4.074



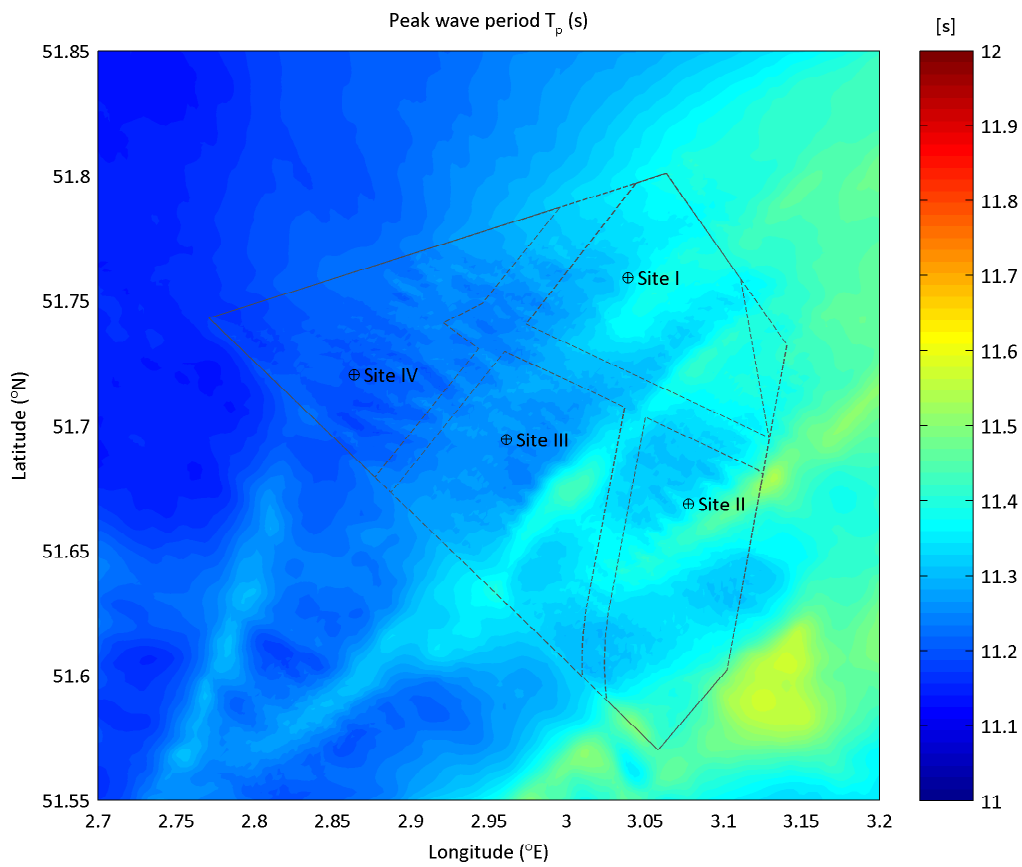
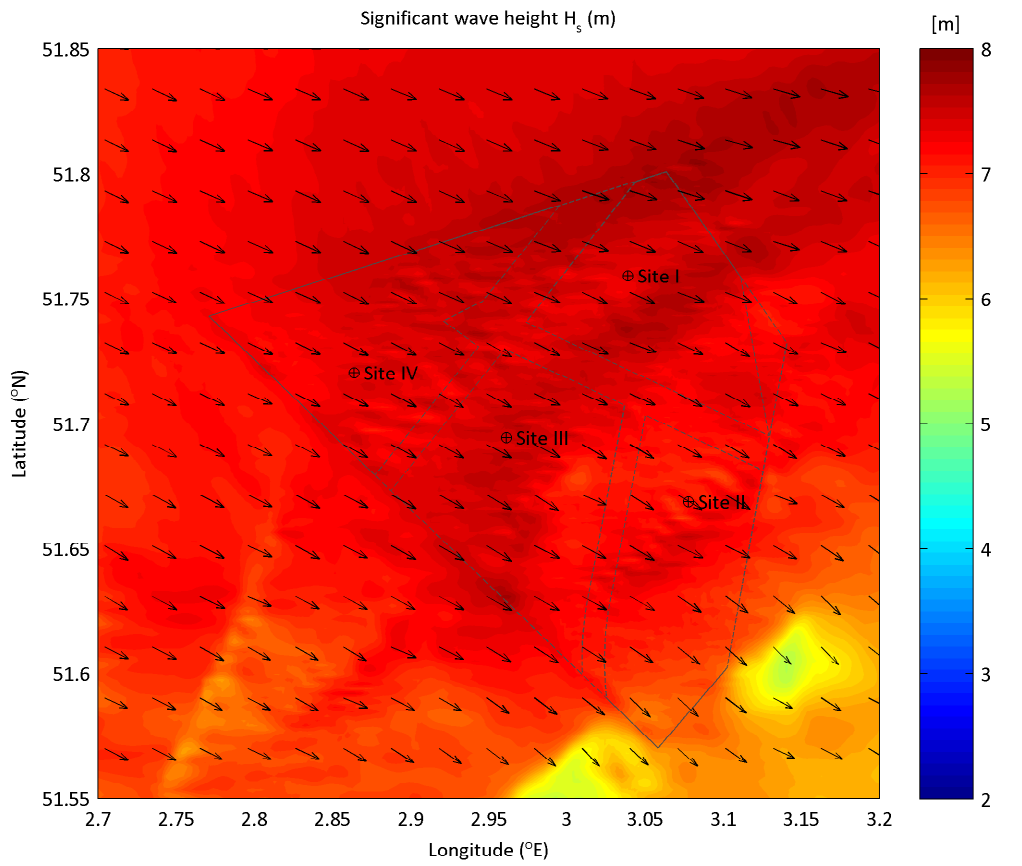
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 5yr

minimum still water level

Deltares

App. B.4.075



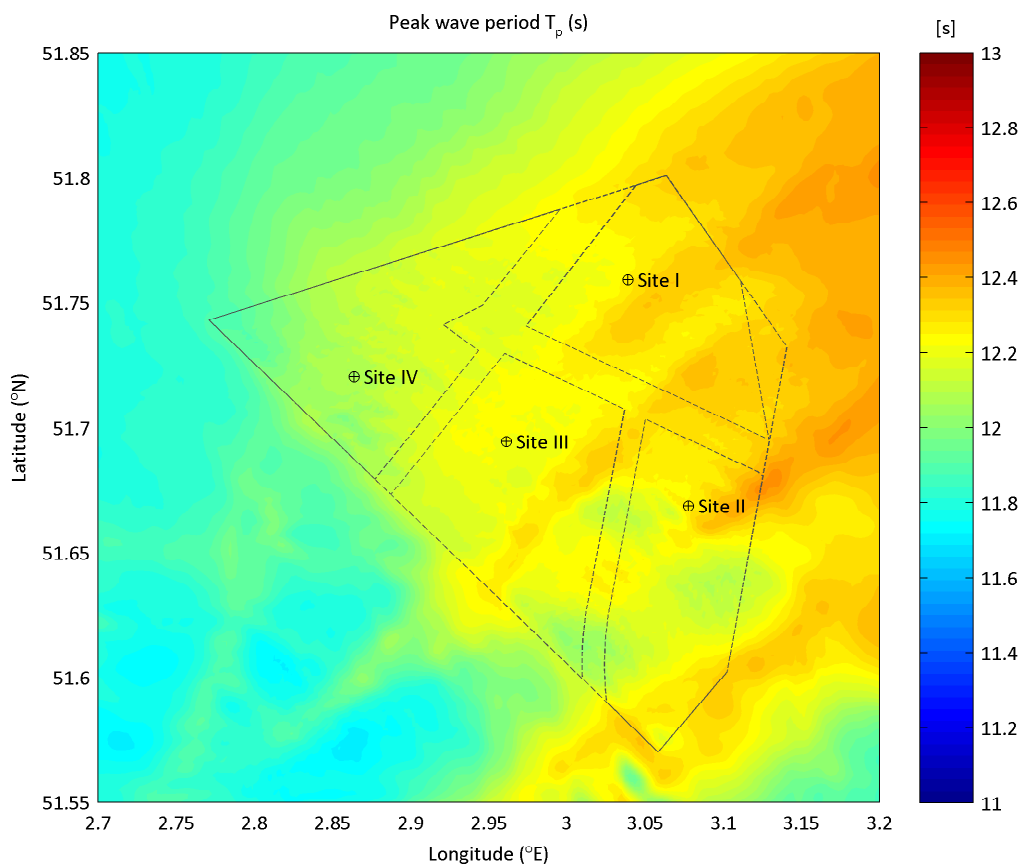
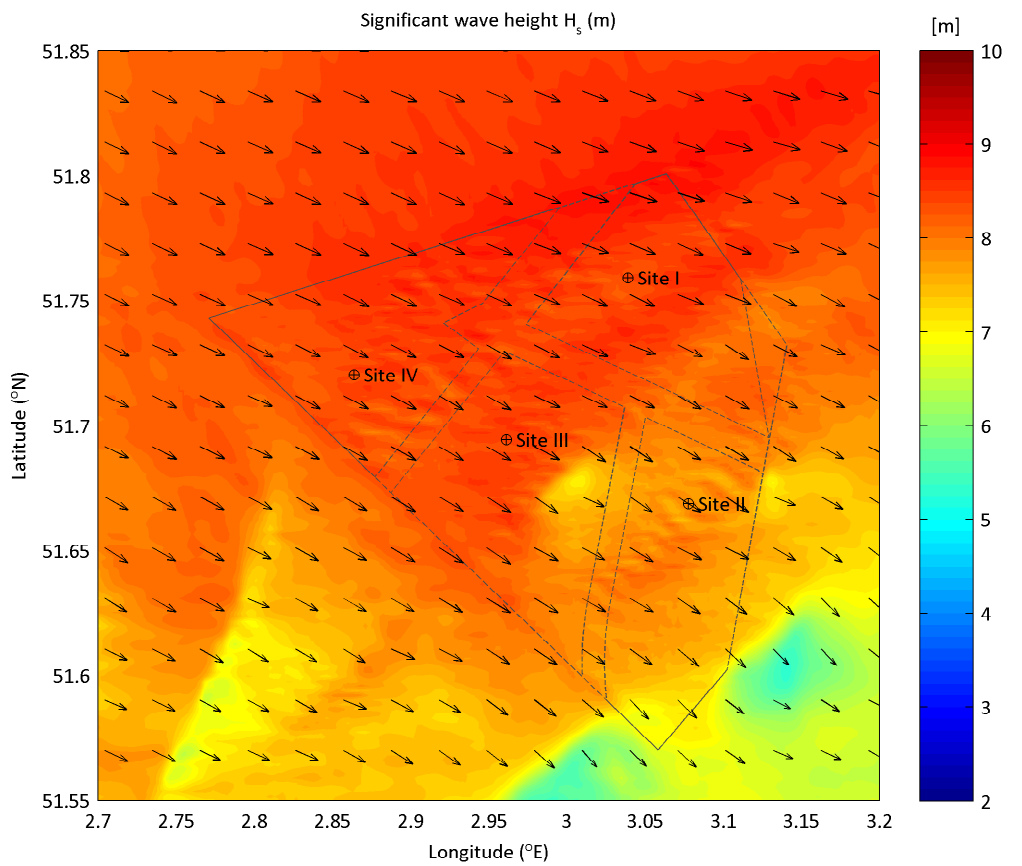
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 10yr

minimum still water level

Deltares

App. B.4.076



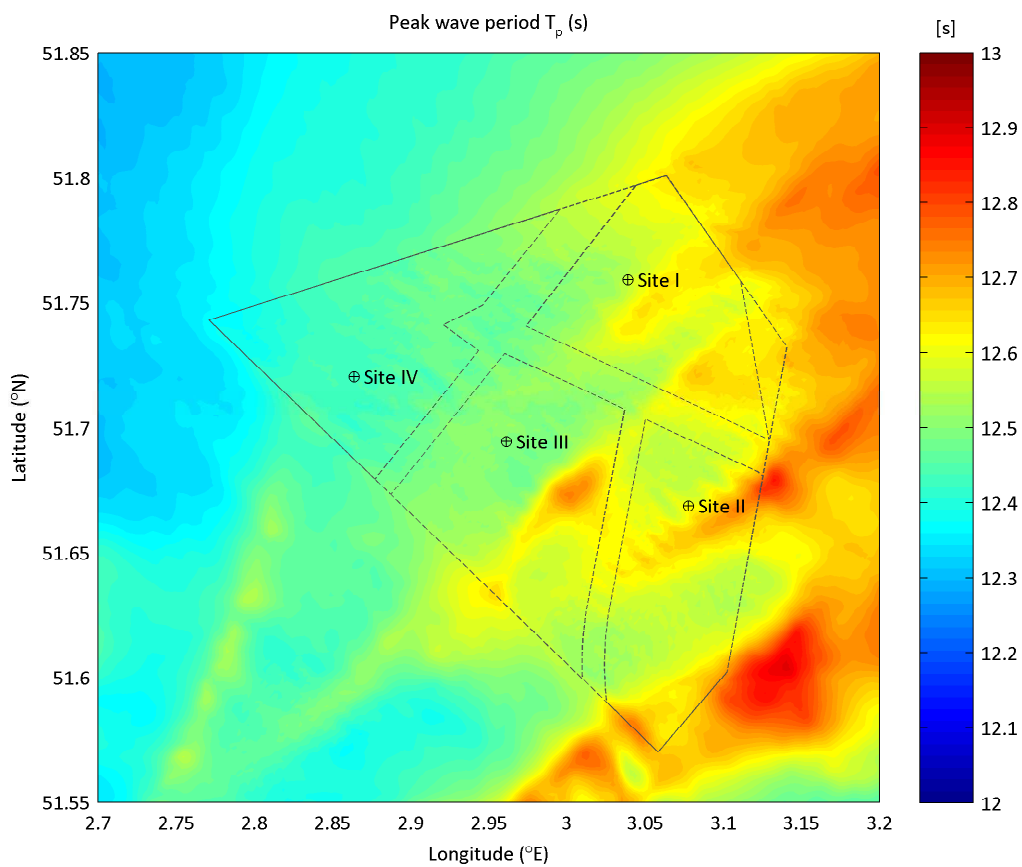
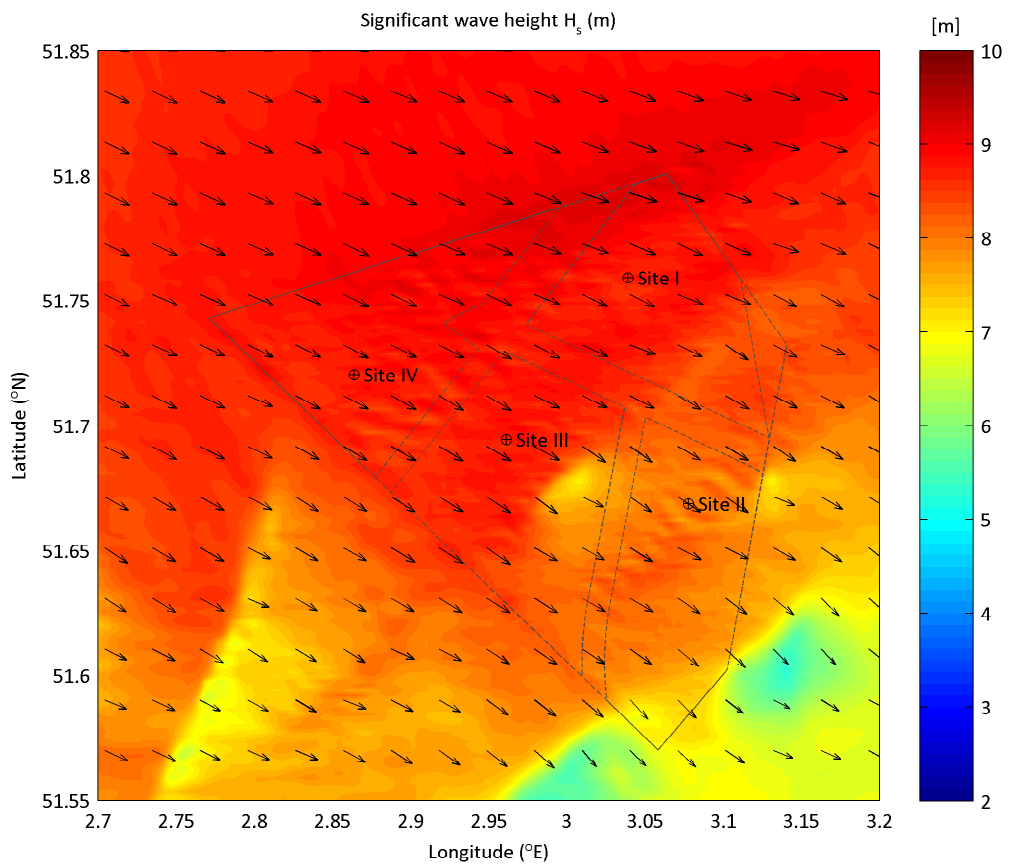
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 50yr

minimum still water level

Deltares

App. B.4.077



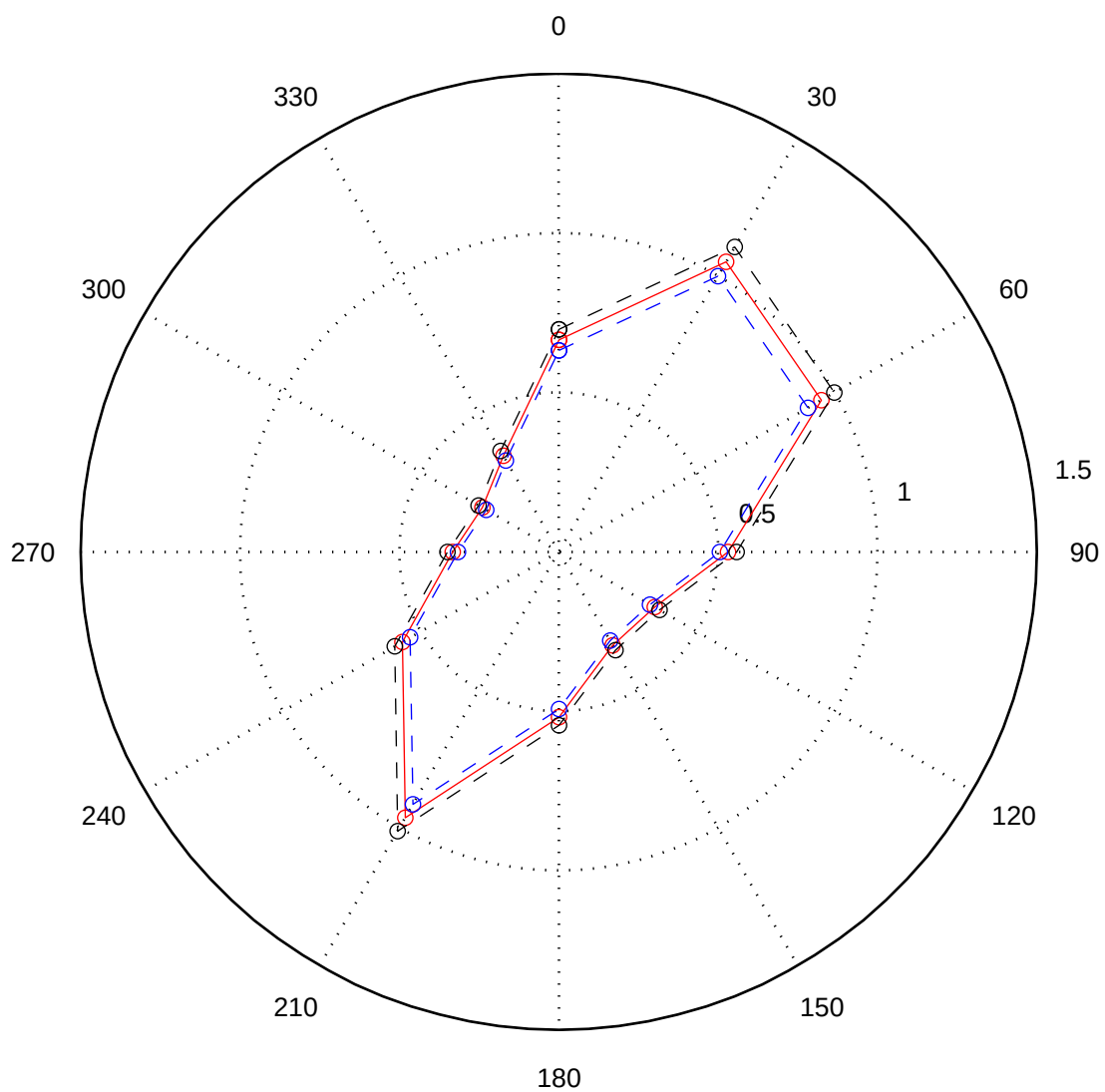
Extreme wave condition from SectorOMNI
 upper plot: Significant wave height H_s (m) - lower plot: peak wave period T_p (s)
 Nautical convention: coming from, clockwise from North

RP: 100yr

minimum still water level

Deltares

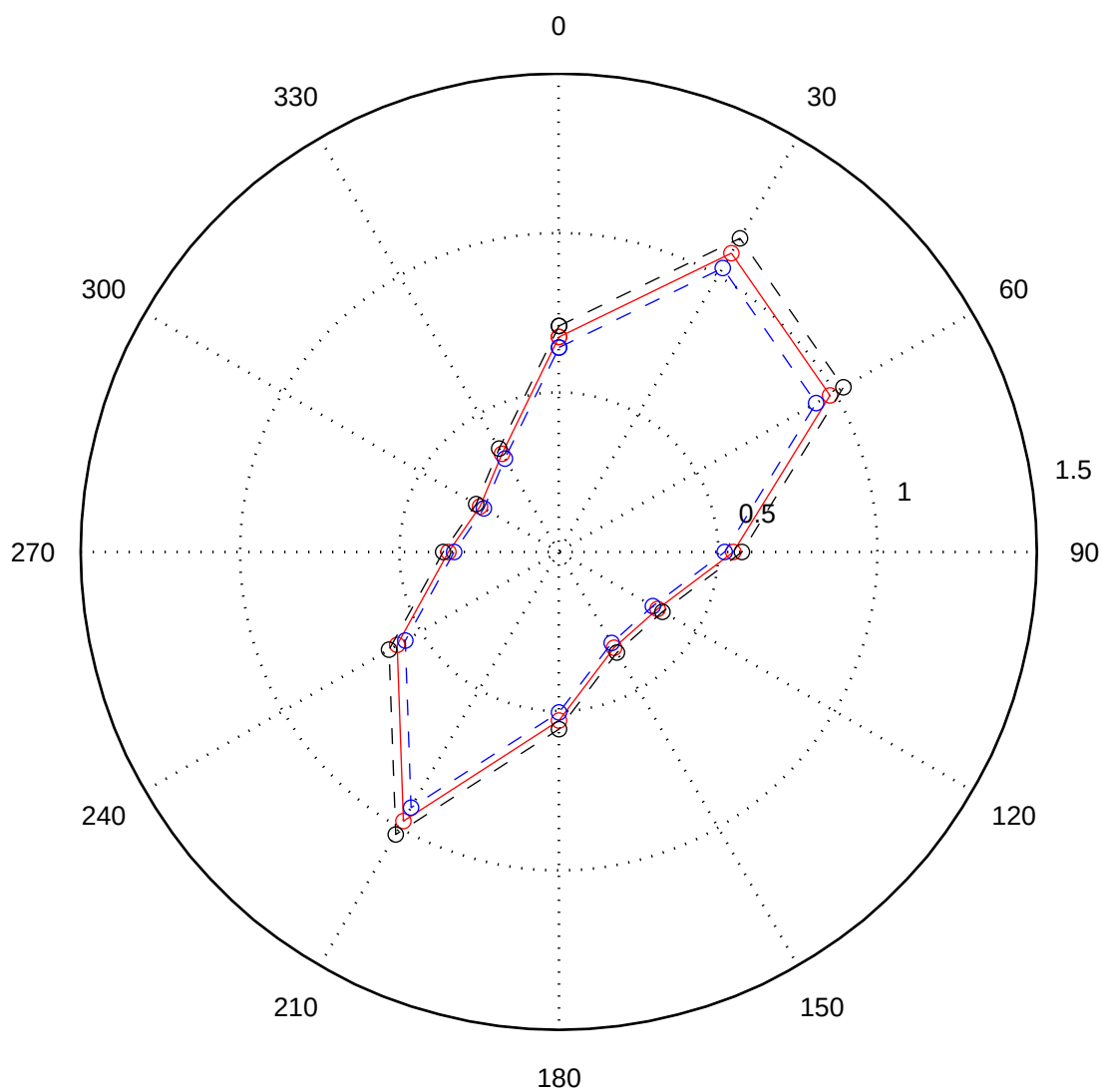
App. B.4.078



Directional extremes of UMAG based on GPD fits

UMAG

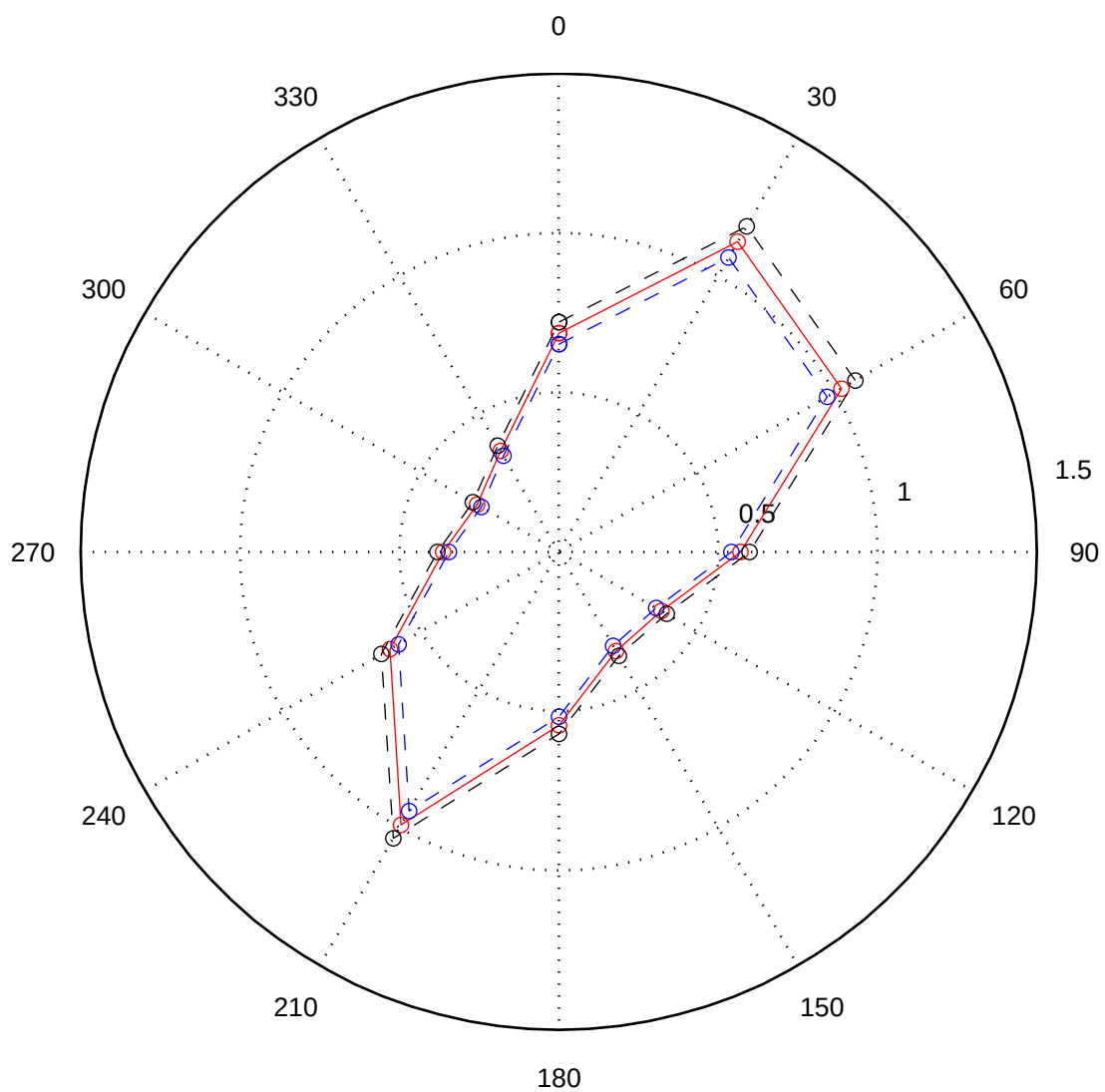
RP 1yr



Directional extremes of UMAG based on GPD fits

UMAG

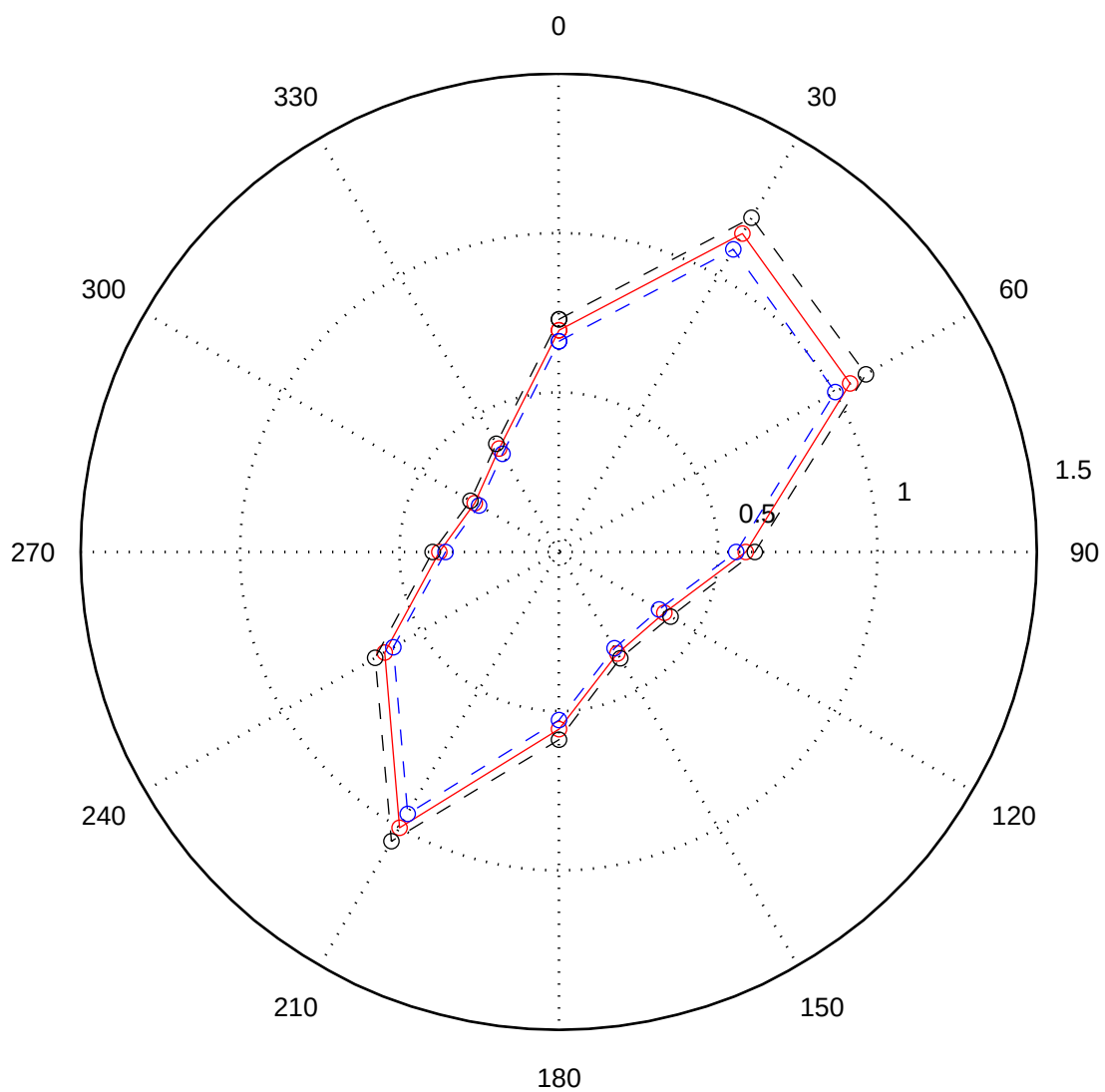
RP 2yr



Directional extremes of U-MAG based on GPD fits

UMAG

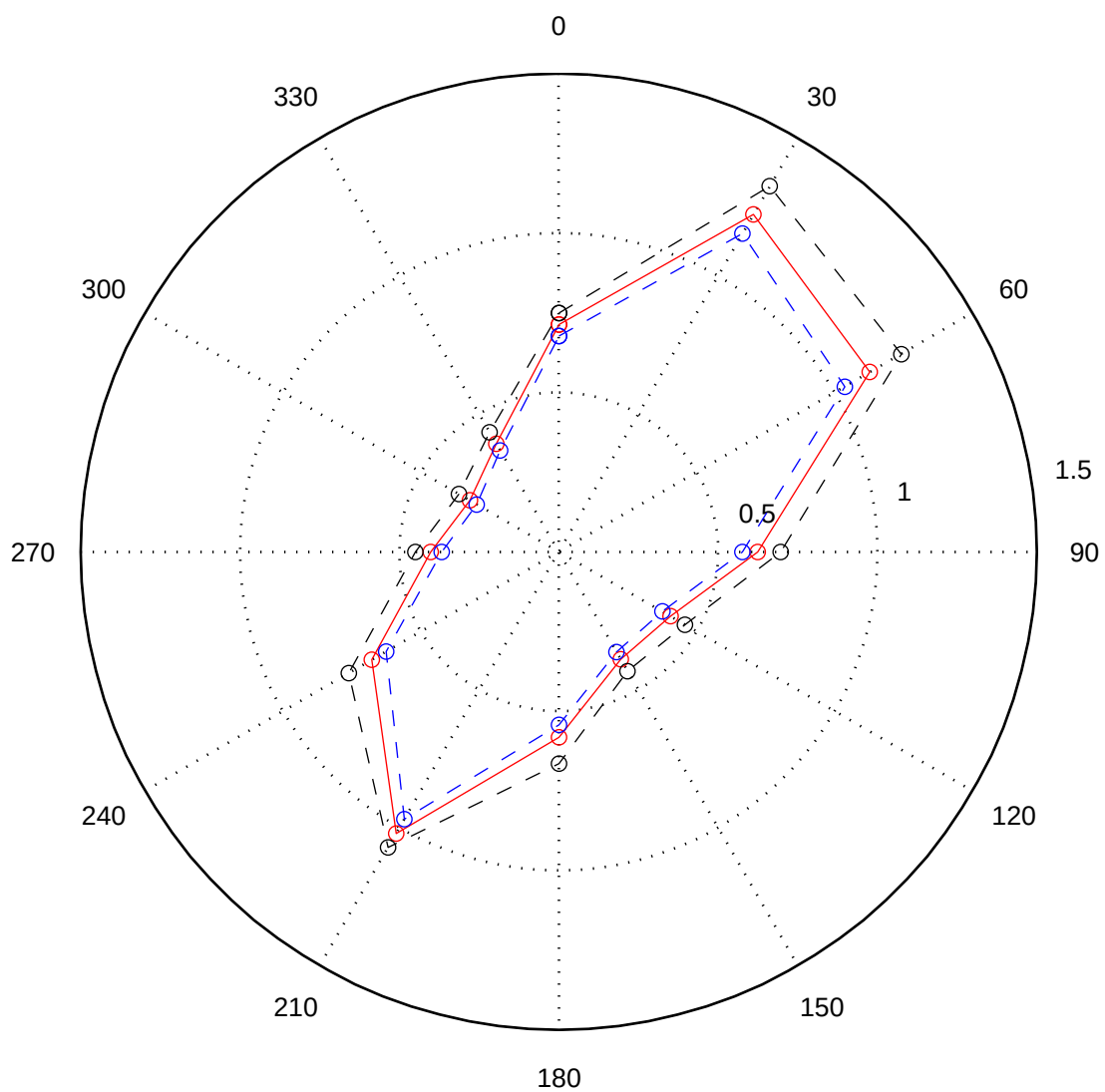
RP 5yr



Directional extremes of UMAG based on GPD fits

UMAG

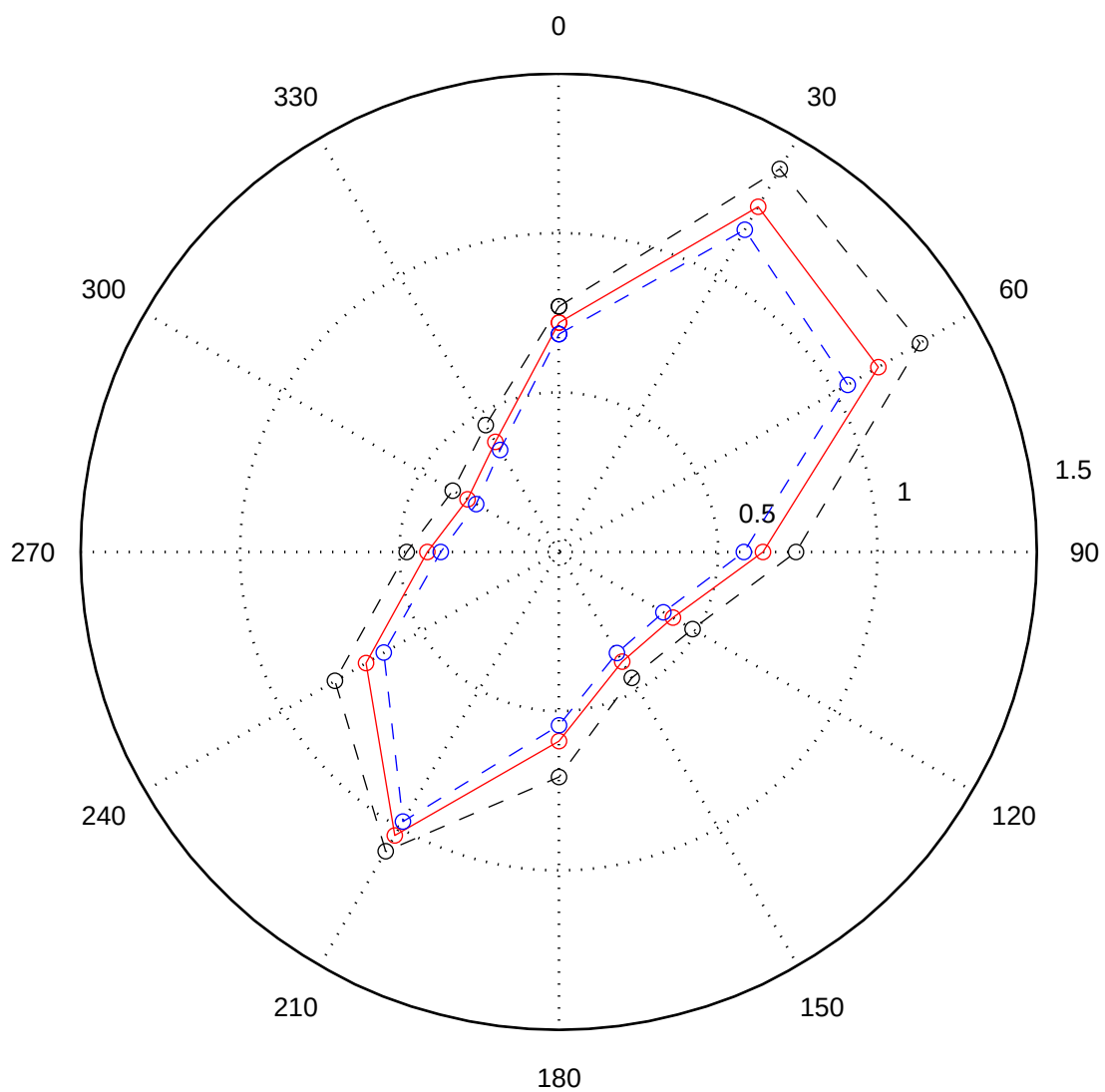
RP 10yr



Directional extremes of U-MAG based on GPD fits

UMAG

RP 50yr



Directional extremes of U-MAG based on GPD fits

UMAG

RP 100yr

u _{dir} (°N – "going to")												
	N	NNE	ENE	E	ESE	SSE	S	SWS	WSW	W	WNW	NNW
>1.6		0.00	0.00									0.00
1.5–1.6		0.01	0.00									0.01
1.4–1.5		0.04	0.00									0.05
1.3–1.4		0.16	0.01					0.01				0.18
1.2–1.3		0.49	0.05					0.06				0.59
1.1–1.2	0.00	1.17	0.16					0.44	0.00			1.77
1.0–1.1	0.01	2.23	0.37	0.00			0.00	1.63	0.00			4.25
0.9–1.0	0.03	3.49	0.76	0.00			0.01	3.23	0.02			7.53
0.8–0.9	0.13	4.28	1.24	0.00	0.00		0.03	4.75	0.07			10.50
0.7–0.8	0.38	4.36	1.63	0.02	0.00	0.00	0.11	5.57	0.21			12.28
0.6–0.7	0.87	3.75	1.83	0.11	0.00	0.00	0.33	5.34	0.46	0.00		12.70
0.5–0.6	1.51	2.60	1.71	0.37	0.02	0.02	0.77	4.18	0.86	0.01	0.00	12.08
0.4–0.5	1.97	1.51	1.27	0.81	0.17	0.20	1.32	2.71	1.28	0.12	0.02	11.61
0.3–0.4	1.77	0.75	0.73	1.02	0.62	0.69	1.39	1.46	1.41	0.58	0.34	11.64
0.2–0.3	1.06	0.37	0.28	0.71	0.81	0.87	0.78	0.69	1.01	0.98	0.92	9.61
0.1–0.2	0.39	0.18	0.12	0.20	0.31	0.31	0.26	0.28	0.44	0.59	0.64	4.33
0.0–0.1	0.08	0.05	0.04	0.04	0.05	0.05	0.06	0.07	0.09	0.11	0.12	0.86
	8.20	25.45	10.21	3.29	1.97	2.16	5.06	30.42	5.84	2.39	2.05	2.96
	All Year, at 100% of the total water depth											Total

Joint occurrence table of current velocity vs. current direction
 Oceanographic convention: going to, clockwise from North

All Year

100% of the total water depth

Deltares

App. C.2.001

u _{dir} (°N – "going to")												
	N	NNE	ENE	E	ESE	SSE	S	SWS	WSW	W	WNW	NNW
>1.6												
1.5–1.6		0.00										0.00
1.4–1.5		0.01	0.00									0.01
1.3–1.4		0.04	0.00									0.04
1.2–1.3		0.17	0.01					0.01				0.19
1.1–1.2		0.61	0.05					0.09				0.75
1.0–1.1	0.00	1.62	0.18				0.00	0.85				2.66
0.9–1.0	0.00	3.19	0.49	0.00			0.00	2.65	0.00			6.34
0.8–0.9	0.04	4.47	1.00	0.00			0.00	4.66	0.01			10.19
0.7–0.8	0.21	4.86	1.55	0.01	0.00		0.03	6.05	0.06			12.76
0.6–0.7	0.67	4.38	1.91	0.04	0.00	0.00	0.15	6.18	0.23			13.56
0.5–0.6	1.45	3.07	1.91	0.22	0.00	0.00	0.54	5.01	0.65	0.00		12.86
0.4–0.5	2.15	1.71	1.50	0.71	0.07	0.07	1.24	3.18	1.27	0.04	0.00	12.04
0.3–0.4	2.18	0.74	0.83	1.16	0.52	0.58	1.63	1.56	1.65	0.41	0.17	12.15
0.2–0.3	1.26	0.31	0.29	0.86	0.95	1.05	0.90	0.64	1.24	1.16	1.00	11.07
0.1–0.2	0.40	0.12	0.08	0.20	0.35	0.34	0.23	0.24	0.46	0.73	0.79	4.67
0.0–0.1	0.06	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.08	0.10	0.11	0.71
	8.44	25.34	9.85	3.23	1.92	2.09	4.76	31.16	5.65	2.44	2.07	3.04
	All Year, at 75% of the total water depth											Total

Joint occurrence table of current velocity vs. current direction
Oceanographic convention: going to, clockwise from North

All Year

75% of the total water depth

Deltares

App. C.2.002

u _{dir} (°N – "going to")												
	N	NNE	ENE	E	ESE	SSE	S	SWS	WSW	W	WNW	NNW
>1.6												
1.5–1.6												
1.4–1.5		0.00										0.00
1.3–1.4		0.00	0.00									0.00
1.2–1.3		0.03	0.00									0.03
1.1–1.2		0.15	0.01					0.00				0.16
1.0–1.1		0.69	0.04					0.13				0.87
0.9–1.0	0.00	2.23	0.20					1.45				3.88
0.8–0.9	0.00	4.28	0.64	0.00			0.00	4.02				8.95
0.7–0.8	0.05	5.39	1.32	0.00			0.00	6.16	0.00			12.93
0.6–0.7	0.39	5.21	1.88	0.01	0.00		0.03	7.01	0.04			14.57
0.5–0.6	1.24	3.90	2.12	0.09	0.00	0.00	0.24	6.23	0.34			14.15
0.4–0.5	2.26	2.09	1.85	0.51	0.01	0.01	1.01	4.09	1.09	0.00		12.93
0.3–0.4	2.66	0.79	1.07	1.23	0.30	0.32	1.87	1.78	1.92	0.19	0.03	12.60
0.2–0.3	1.61	0.25	0.33	1.08	1.11	1.24	1.17	0.60	1.58	1.27	0.95	12.87
0.1–0.2	0.42	0.09	0.06	0.23	0.44	0.43	0.21	0.19	0.50	0.93	1.04	5.47
0.0–0.1	0.05	0.03	0.02	0.02	0.02	0.02	0.03	0.04	0.07	0.09	0.11	0.57
	8.69	25.14	9.54	3.17	1.88	2.03	4.55	31.70	5.54	2.49	2.14	100.00
	All Year, at 50% of the total water depth											Total

Joint occurrence table of current velocity vs. current direction
Oceanographic convention: going to, clockwise from North

All Year

50% of the total water depth

Deltares

App. C.2.003

u _{dir} (°N – "going to")												
	N	NNE	ENE	E	ESE	SSE	S	SWS	WSW	W	WNW	NNW
>1.6												
1.5–1.6												
1.4–1.5												
1.3–1.4												
1.2–1.3		0.00										
1.1–1.2		0.00	0.00									
1.0–1.1		0.06	0.00									
0.9–1.0		0.47	0.02					0.07				
0.8–0.9		2.52	0.15					1.74				
0.7–0.8	0.00	5.30	0.72					5.31				
0.6–0.7	0.06	6.28	1.63	0.00			0.00	7.50	0.00			
0.5–0.6	0.70	5.55	2.23	0.01			0.02	7.84	0.04			
0.4–0.5	2.11	3.21	2.34	0.21	0.00	0.00	0.46	6.11	0.62			
0.3–0.4	3.21	1.14	1.60	1.07	0.06	0.06	1.85	2.60	1.97	0.02		0.09
0.2–0.3	2.33	0.25	0.52	1.46	1.10	1.23	1.76	0.67	2.25	1.09	0.56	1.70
0.1–0.2	0.50	0.05	0.06	0.37	0.67	0.68	0.27	0.16	0.65	1.36	1.52	1.36
0.0–0.1	0.04	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.06	0.09	0.11	0.08
	8.94	24.85	9.27	3.13	1.85	1.99	4.38	32.03	5.59	2.55	2.20	3.23
	All Year, at 25% of the total water depth											Total

Joint occurrence table of current velocity vs. current direction
Oceanographic convention: going to, clockwise from North

All Year

25% of the total water depth

Deltares

App. C.2.004

u _{dir} (°N – "going to")												
	N	NNE	ENE	E	ESE	SSE	S	SWS	WSW	W	WNW	NNW
>1.6												
1.5–1.6												
1.4–1.5												
1.3–1.4												
1.2–1.3												
1.1–1.2												
1.0–1.1												
0.9–1.0		0.00										0.00
0.8–0.9		0.02	0.00									0.02
0.7–0.8		0.42	0.01					0.08				0.51
0.6–0.7		4.19	0.24					3.63				8.06
0.5–0.6	0.00	7.86	1.48					8.82				18.15
0.4–0.5	0.65	7.46	2.64	0.00			0.00	10.03	0.01			20.81
0.3–0.4	2.95	3.76	2.92	0.31	0.00	0.00	0.62	7.40	0.89			18.85
0.2–0.3	4.16	0.80	1.54	1.71	0.36	0.39	2.66	1.96	3.12	0.16	0.01	17.42
0.1–0.2	1.29	0.07	0.22	1.04	1.41	1.54	0.95	0.26	1.59	2.25	2.00	15.22
0.0–0.1	0.06	0.01	0.01	0.03	0.05	0.04	0.02	0.03	0.09	0.19	0.26	0.96
	9.11	24.59	9.05	3.09	1.82	1.97	4.26	32.20	5.70	2.61	2.27	3.33
	All Year, at 5% of the total water depth											Total

Joint occurrence table of current velocity vs. current direction
 Oceanographic convention: going to, clockwise from North

All Year

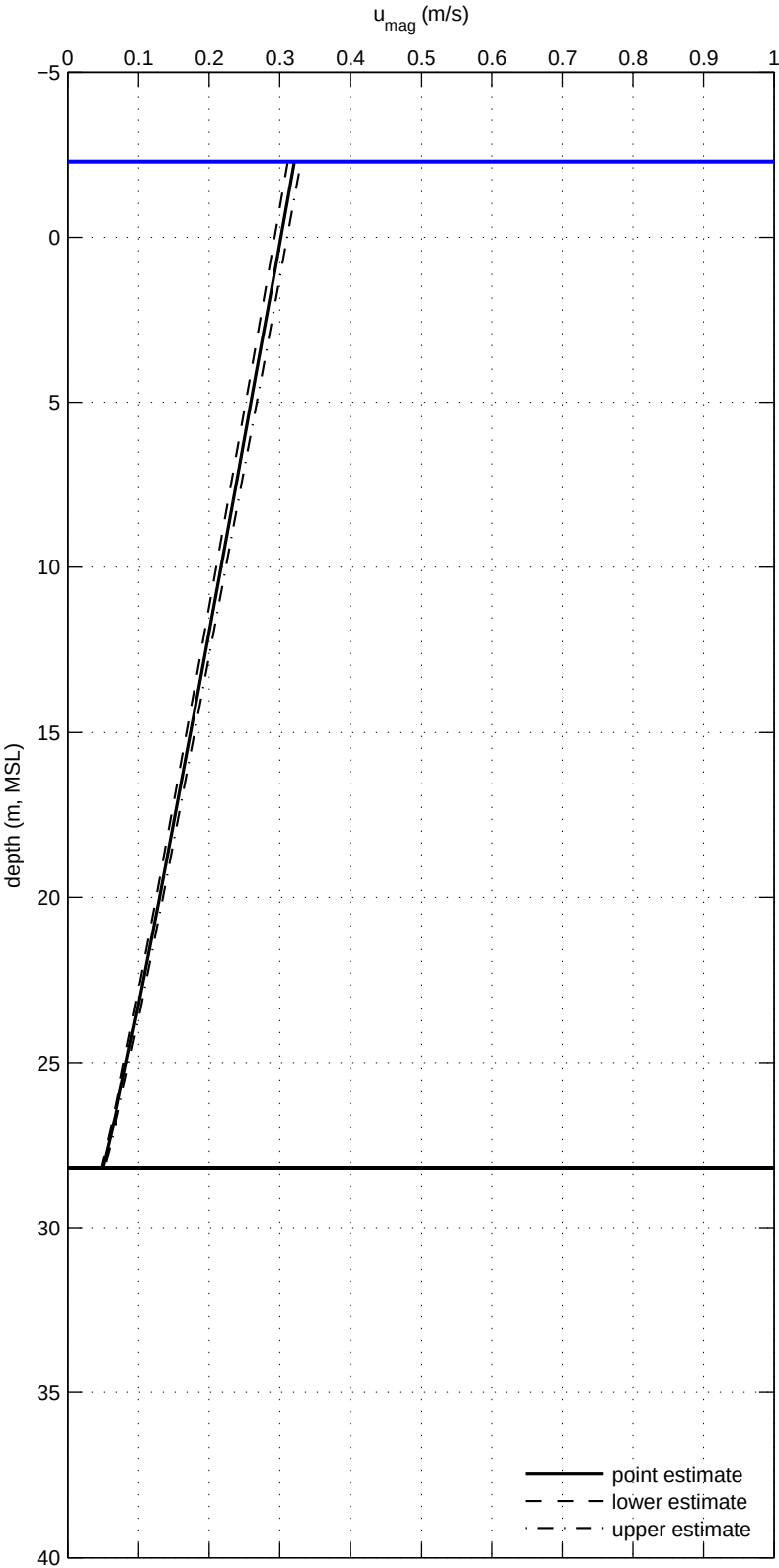
5% of the total water depth

Deltares

App. C.2.005

RP = 1 yr (U10 = 16.3 m/s)

Dir sector N



Current profile for directional sector N

RP = 1 yr

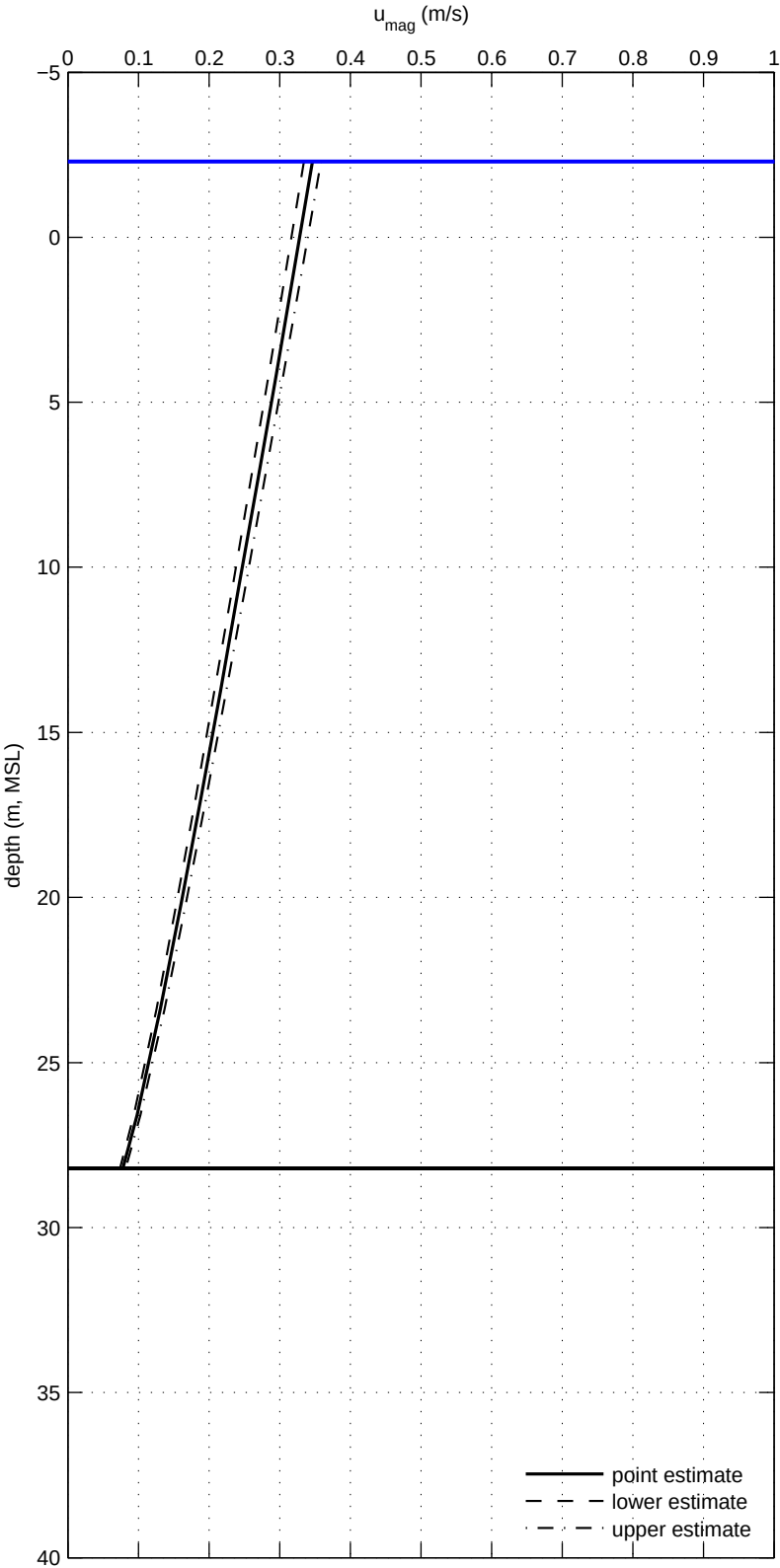
U10 = 16.3 m/s

Deltares

App. C.3.001

RP = 1 yr (U10 = 15.1 m/s)

Dir sector NNE



Current profile for directional sector NNE

RP = 1 yr

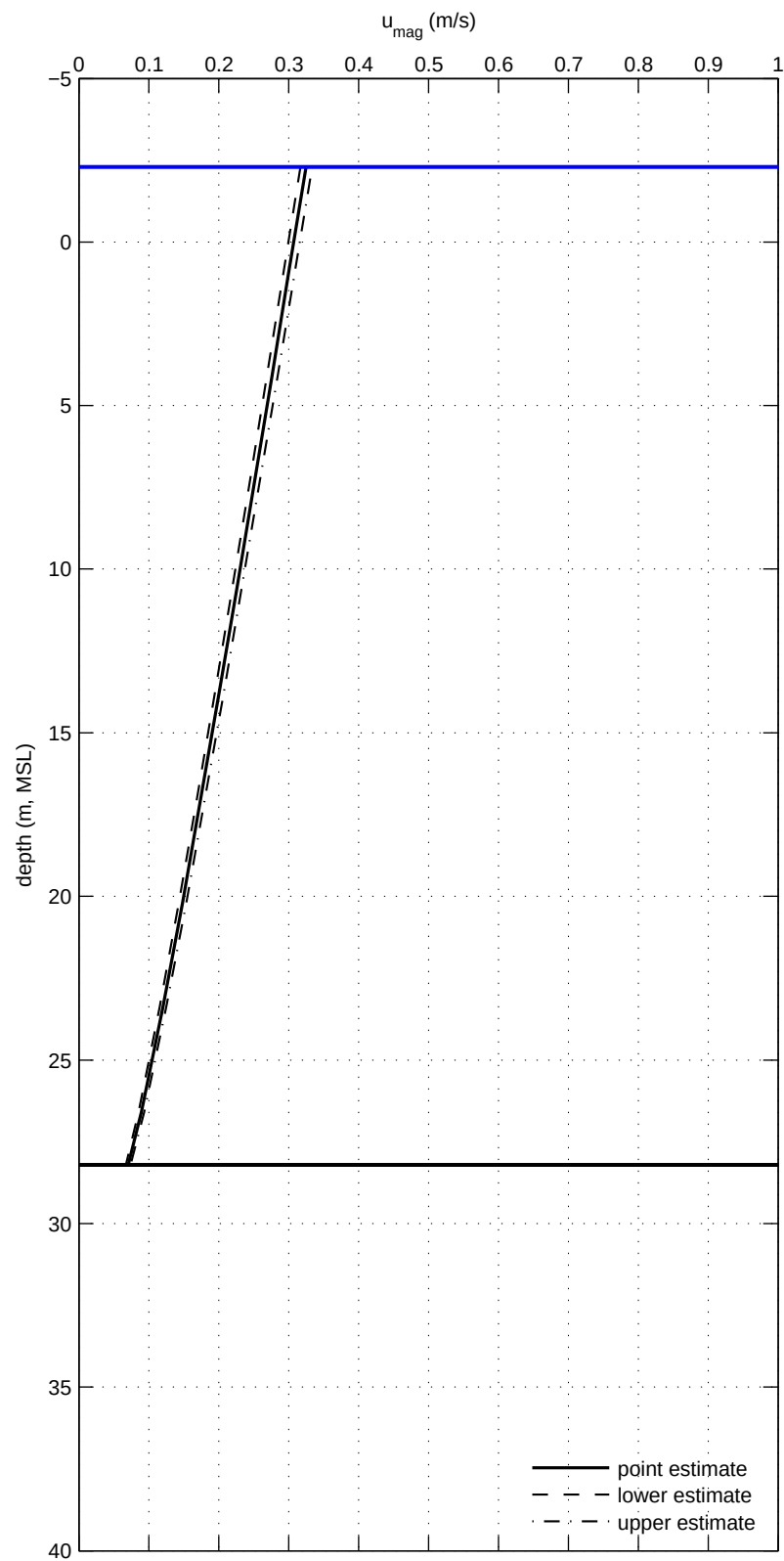
U10 = 15.1 m/s

Deltares

App. C.3.002

RP = 1 yr (U10 = 14.4 m/s)

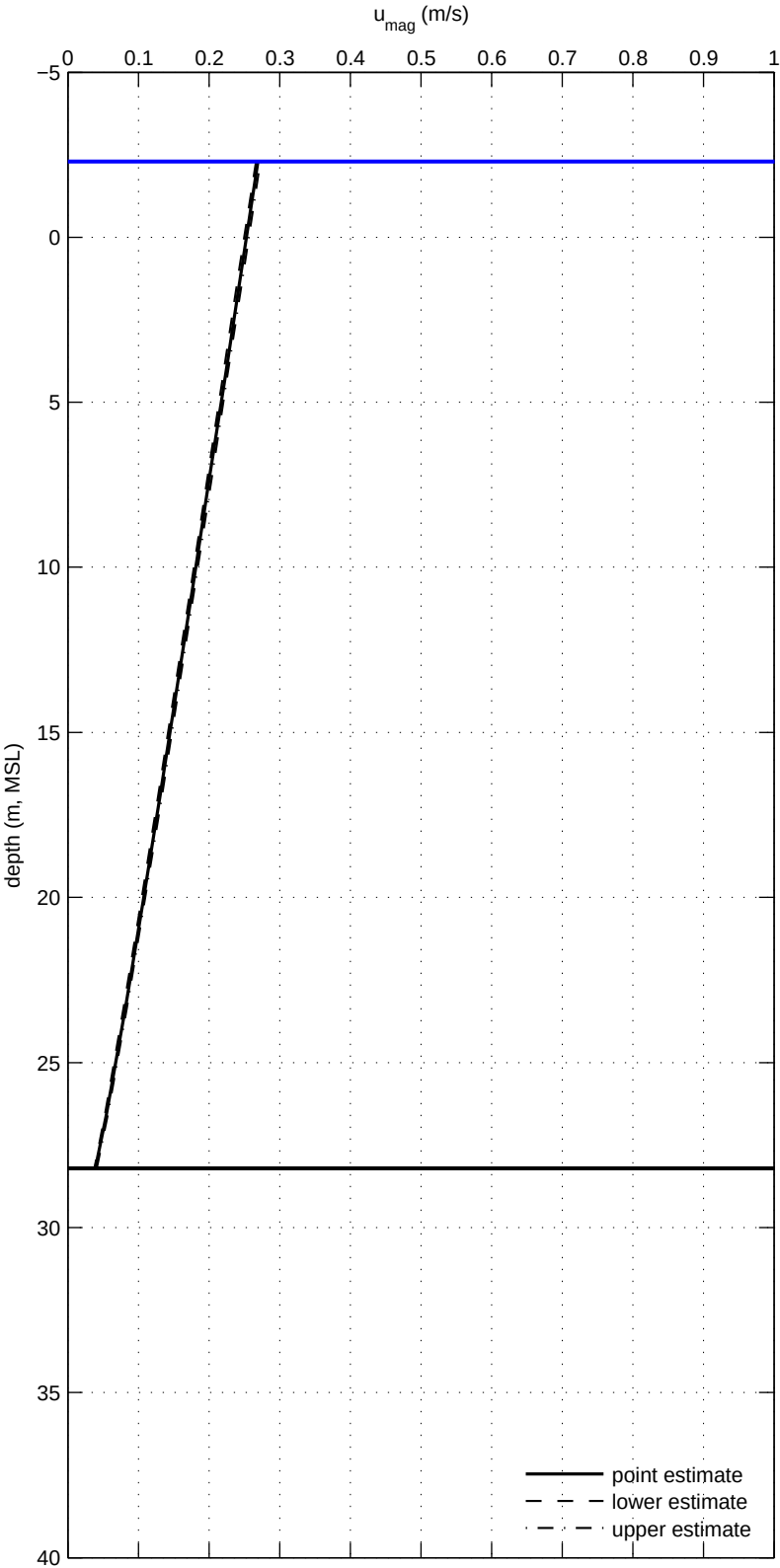
Dir sector ENE



Current profile for directional sector ENE	RP = 1 yr	U10 = 14.4 m/s
Deltares		App. C.3.003

RP = 1 yr (U10 = 13.9 m/s)

Dir sector E



Current profile for directional sector E

RP = 1 yr

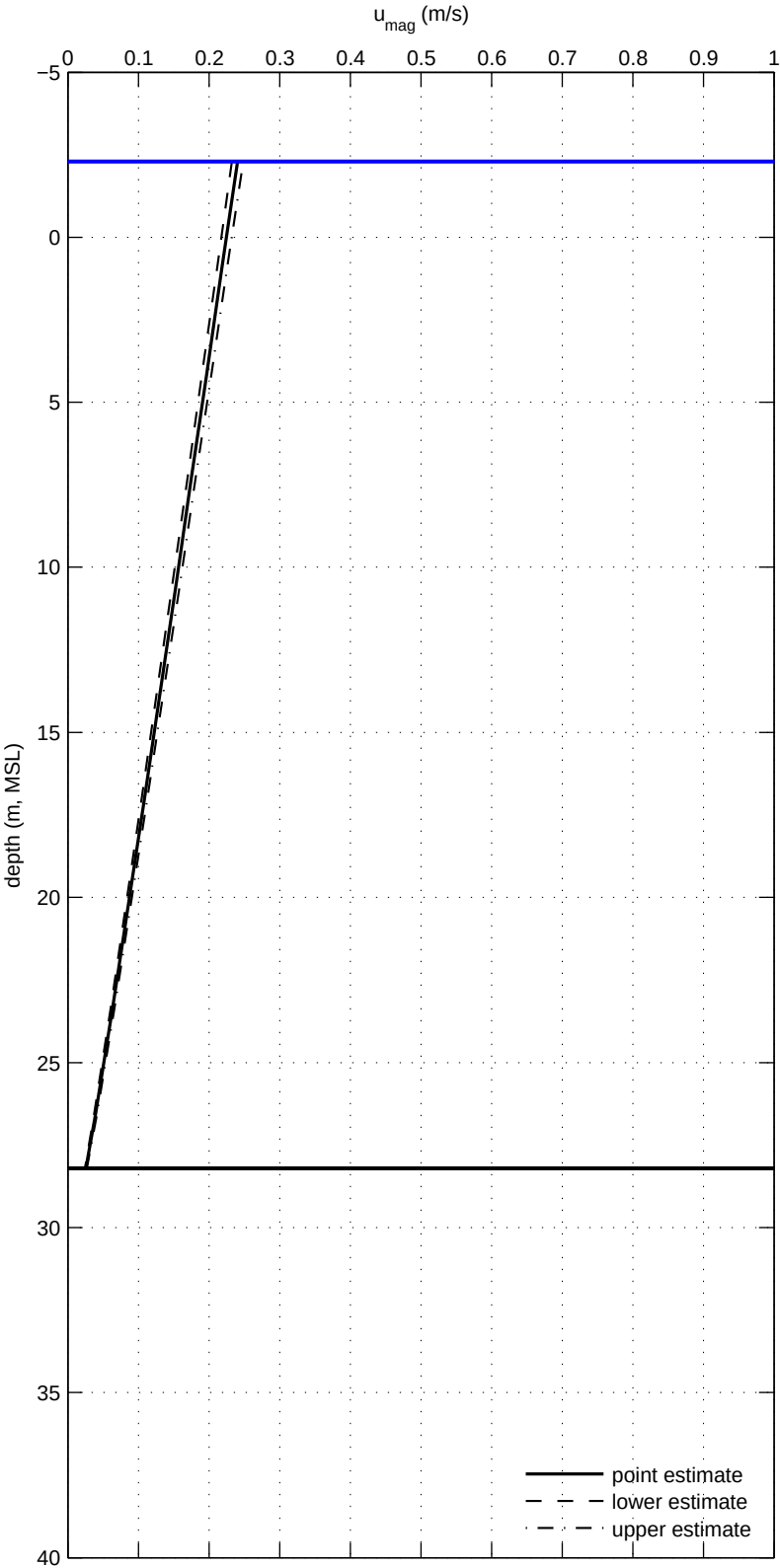
U10 = 13.9 m/s

Deltares

App. C.3.004

RP = 1 yr (U10 = 13.4 m/s)

Dir sector ESE



Current profile for directional sector ESE

RP = 1 yr

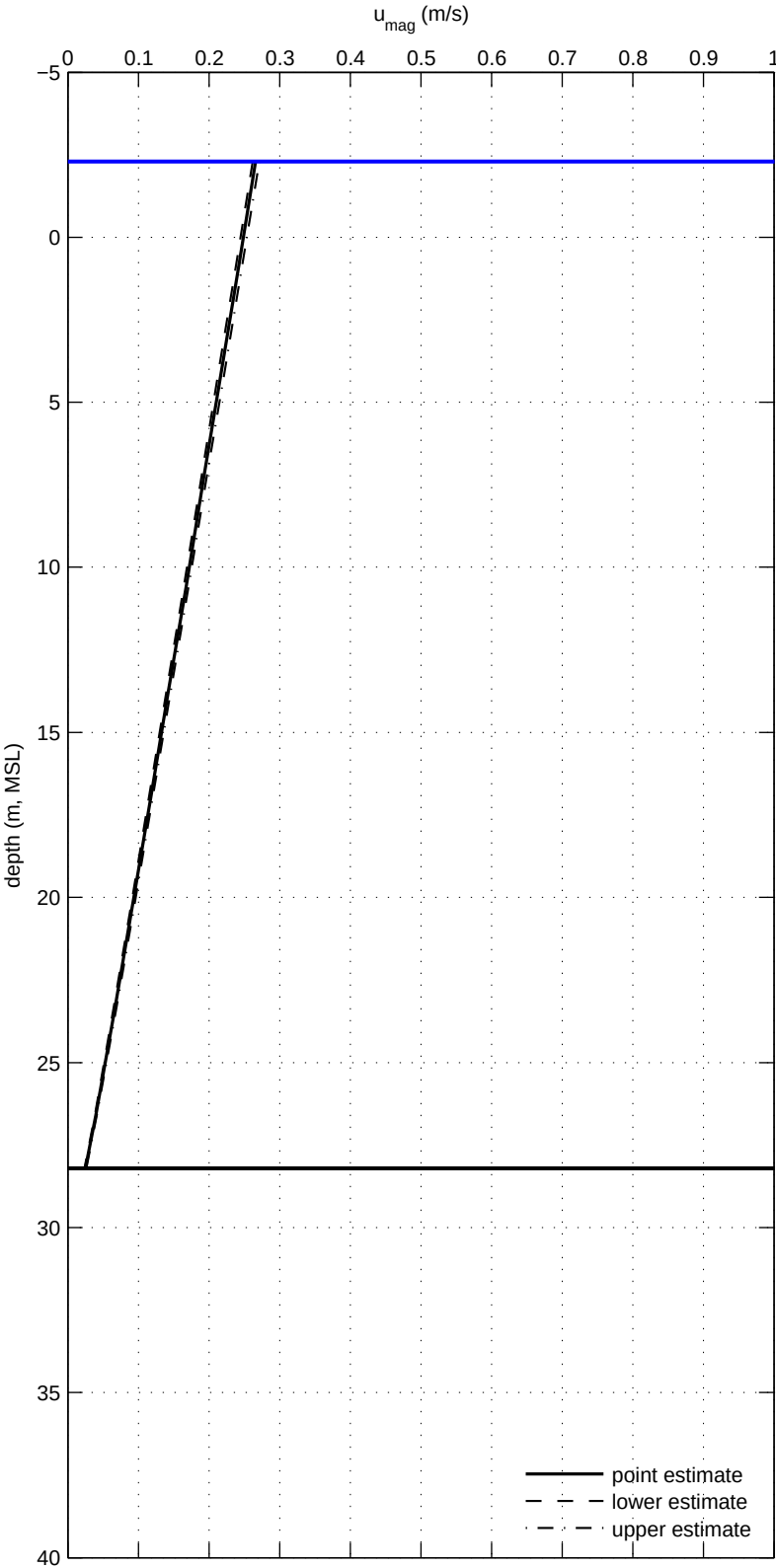
U10 = 13.4 m/s

Deltares

App. C.3.005

RP = 1 yr (U10 = 15.2 m/s)

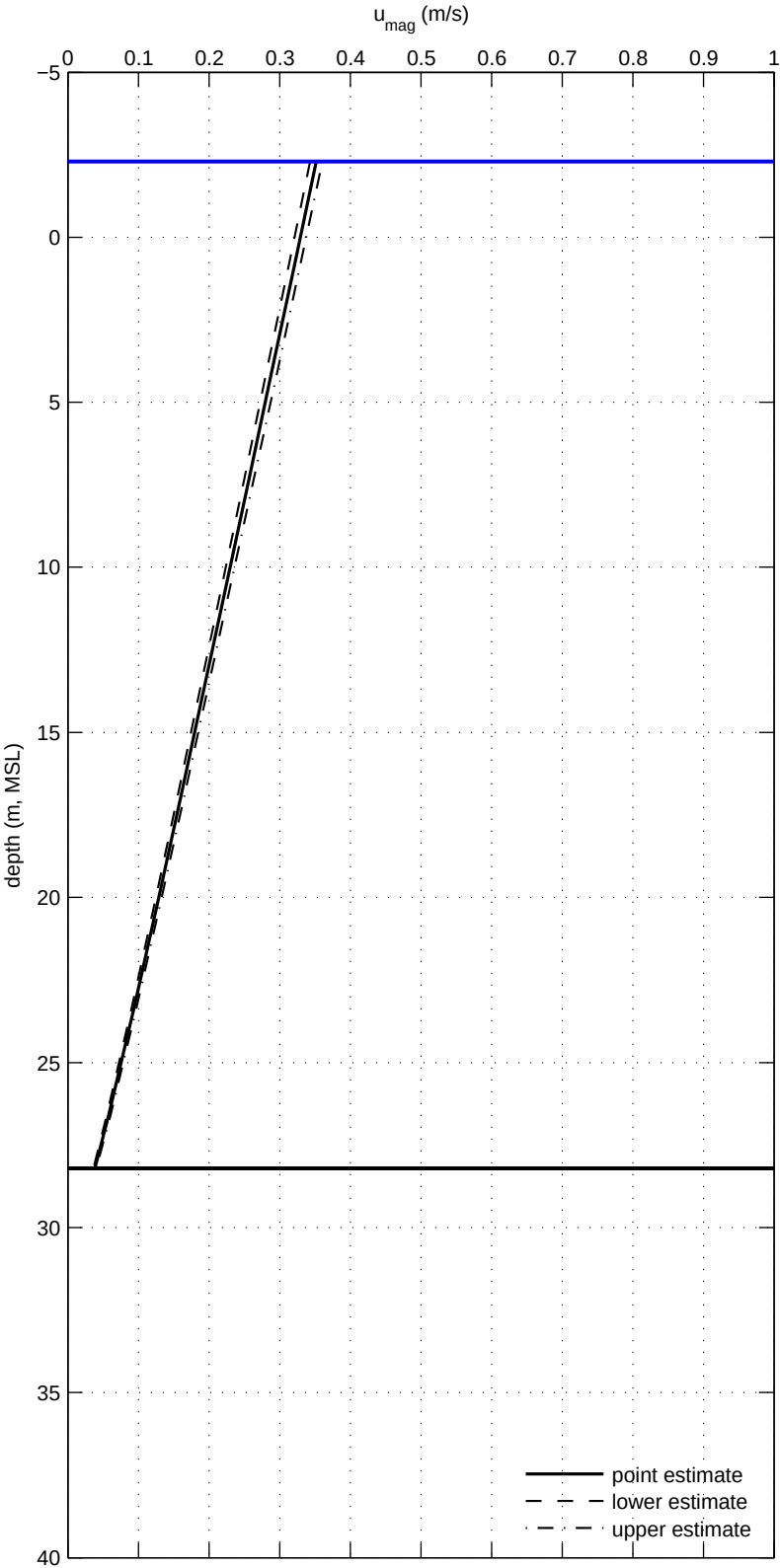
Dir sector SSE



Current profile for directional sector SSE	RP = 1 yr	U10 = 15.2 m/s
Deltares		App. C.3.006

RP = 1 yr (U10 = 19.5 m/s)

Dir sector S



Current profile for directional sector S

RP = 1 yr

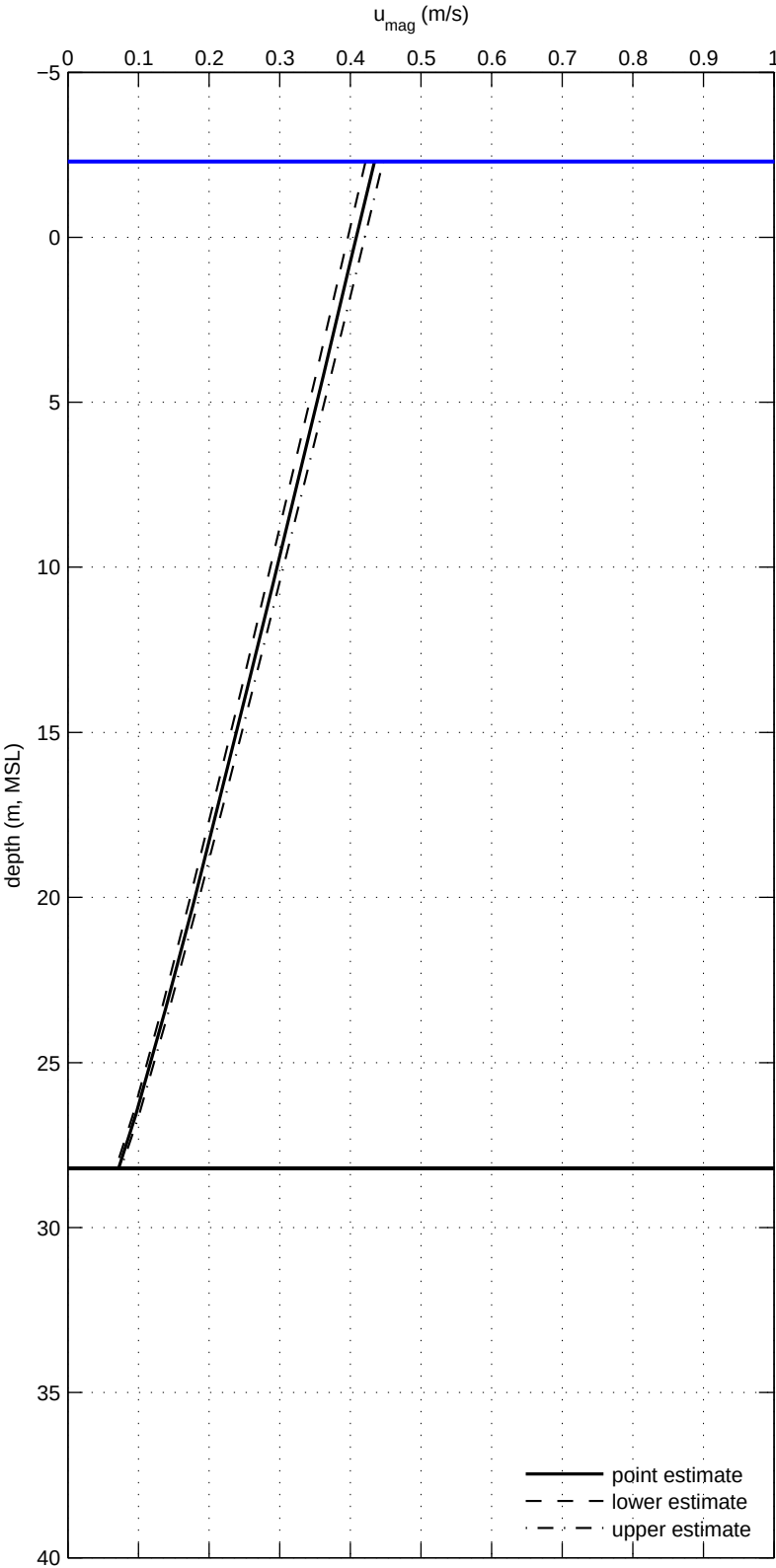
U10 = 19.5 m/s

Deltares

App. C.3.007

RP = 1 yr (U10 = 21.6 m/s)

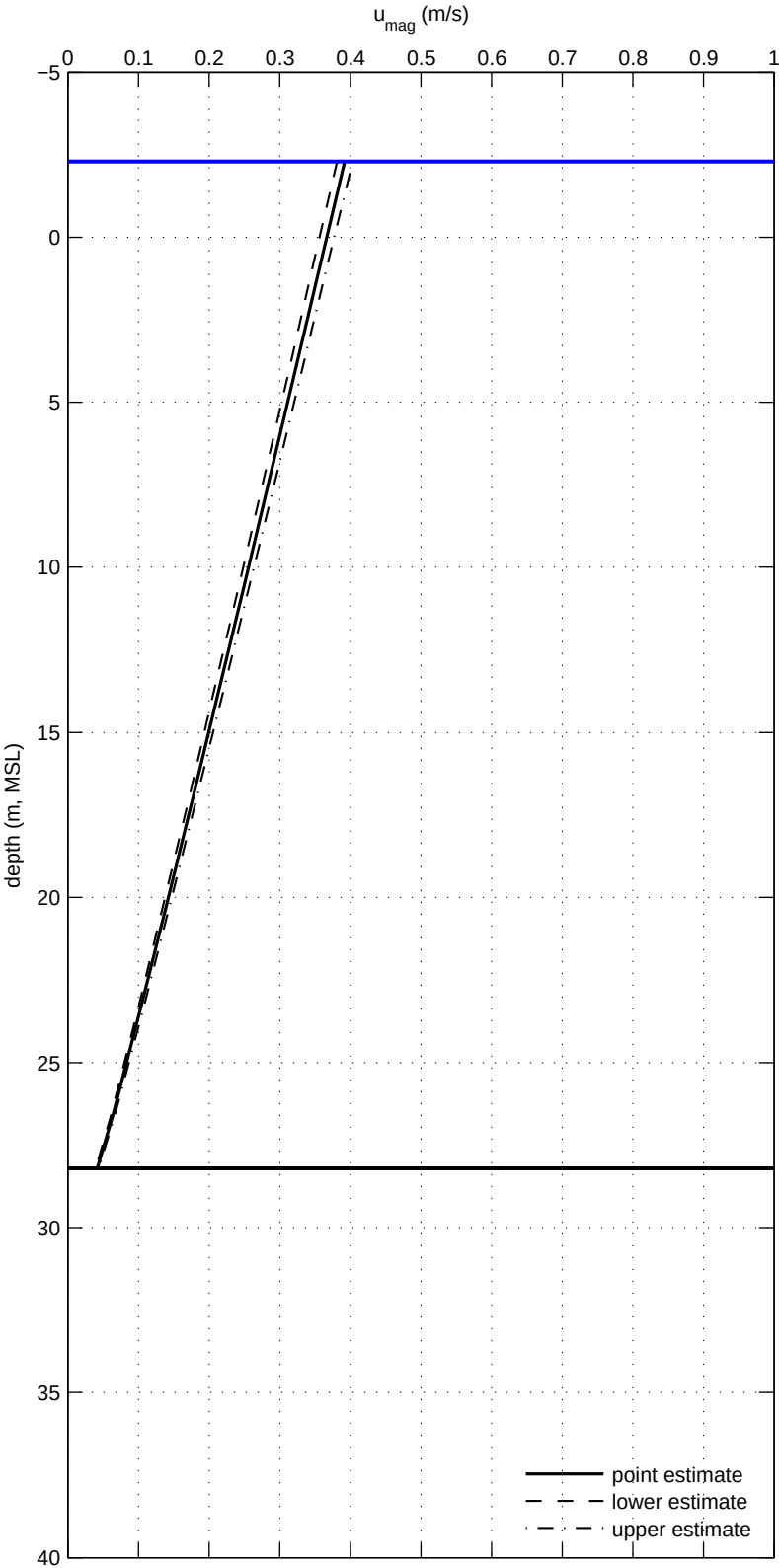
Dir sector SSW



Current profile for directional sector SSW	RP = 1 yr	U10 = 21.6 m/s
Deltares		App. C.3.008

RP = 1 yr (U10 = 21.8 m/s)

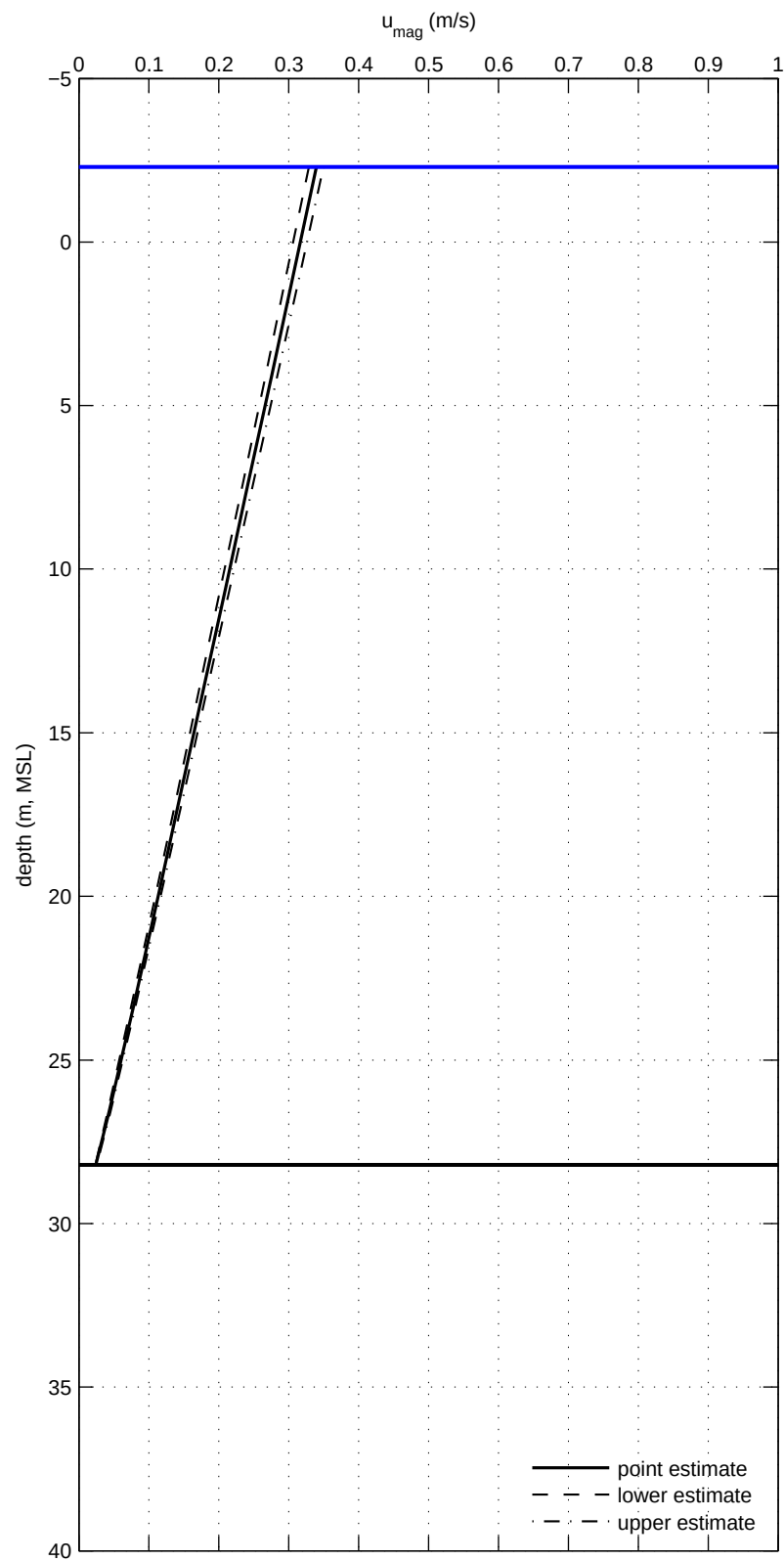
Dir sector WSW



Current profile for directional sector WSW	RP = 1 yr	U10 = 21.8 m/s
Deltares		App. C.3.009

RP = 1 yr (U10 = 20.1 m/s)

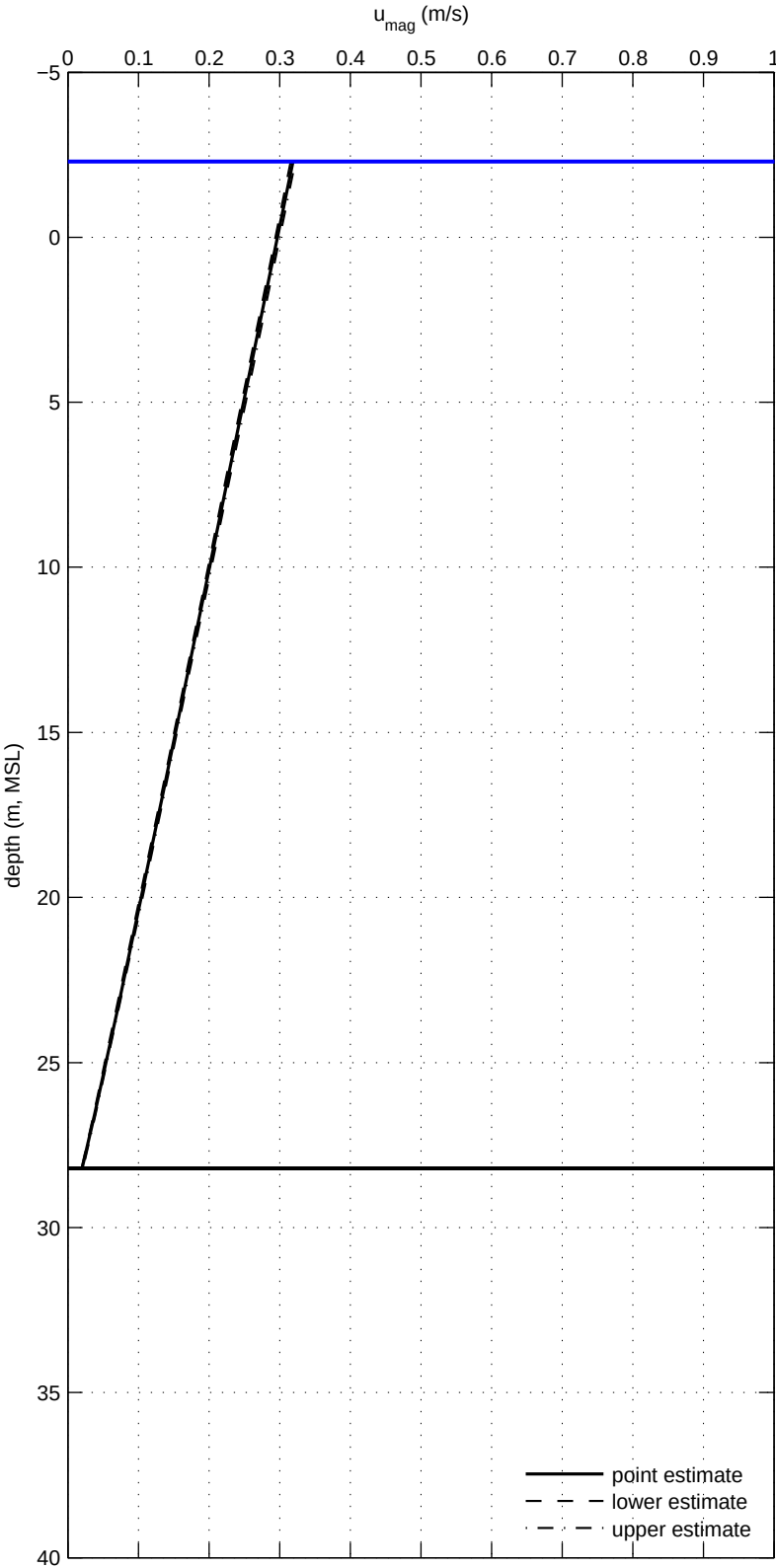
Dir sector W



Current profile for directional sector W	RP = 1 yr	U10 = 20.1 m/s
Deltares		App. C.3.010

RP = 1 yr (U10 = 19.1 m/s)

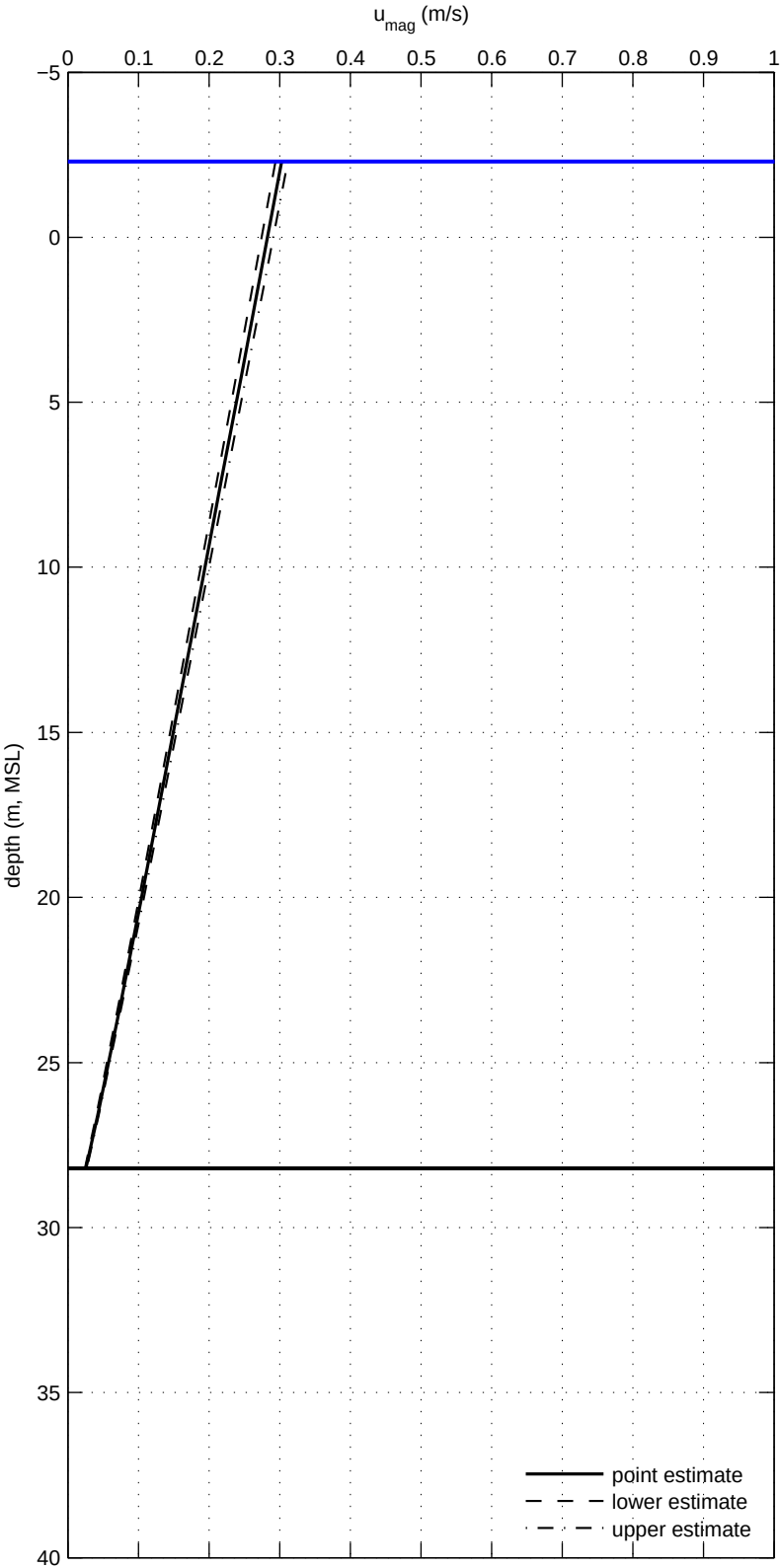
Dir sector WNW



Current profile for directional sector WNW	RP = 1 yr	U10 = 19.1 m/s
Deltares		App. C.3.011

RP = 1 yr (U10 = 17.6 m/s)

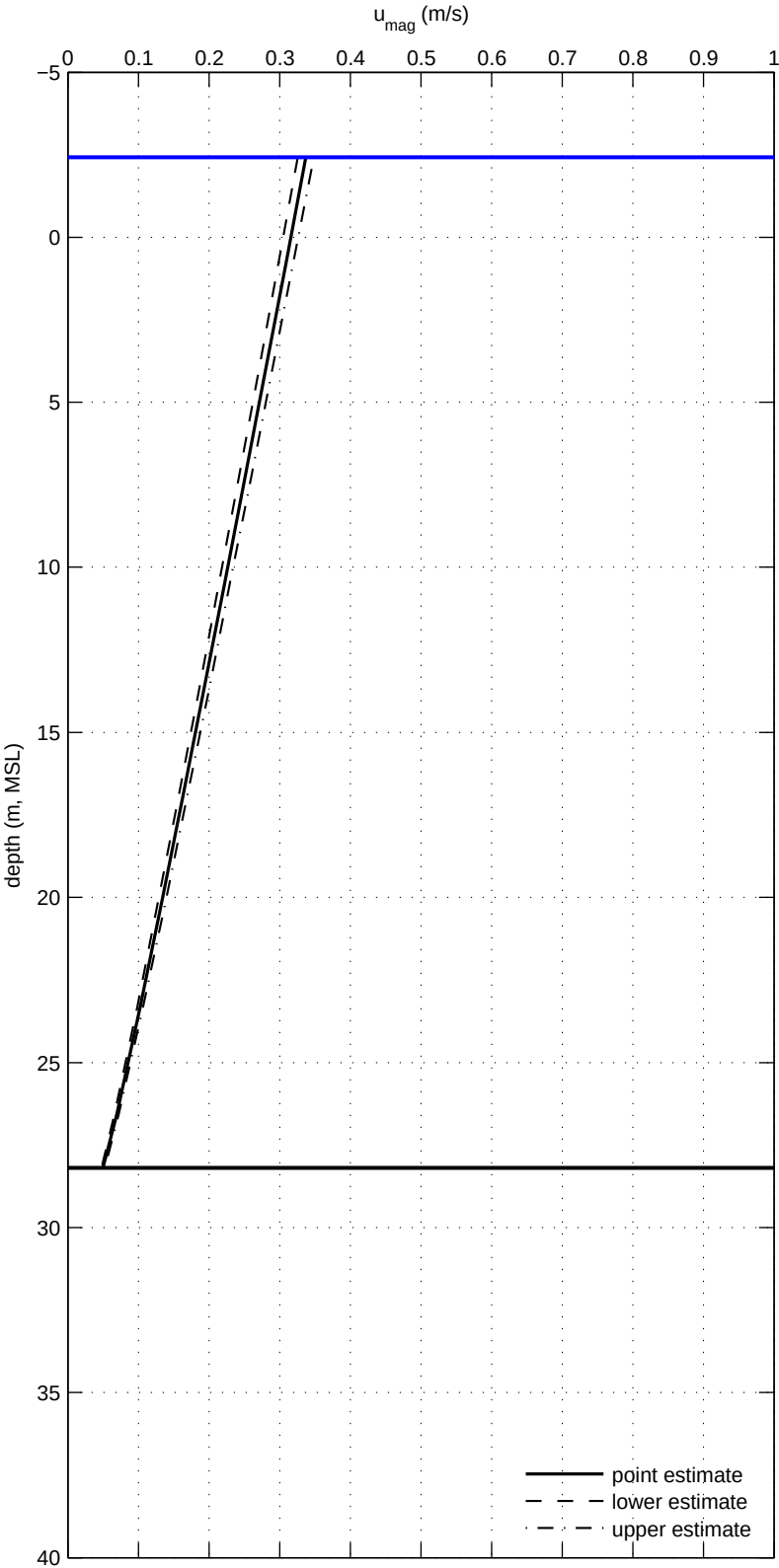
Dir sector NNW



Current profile for directional sector NNW	RP = 1 yr	U10 = 17.6 m/s
Deltares		App. C.3.012

RP = 2 yr (U10 = 17.4 m/s)

Dir sector N



Current profile for directional sector N

RP = 2 yr

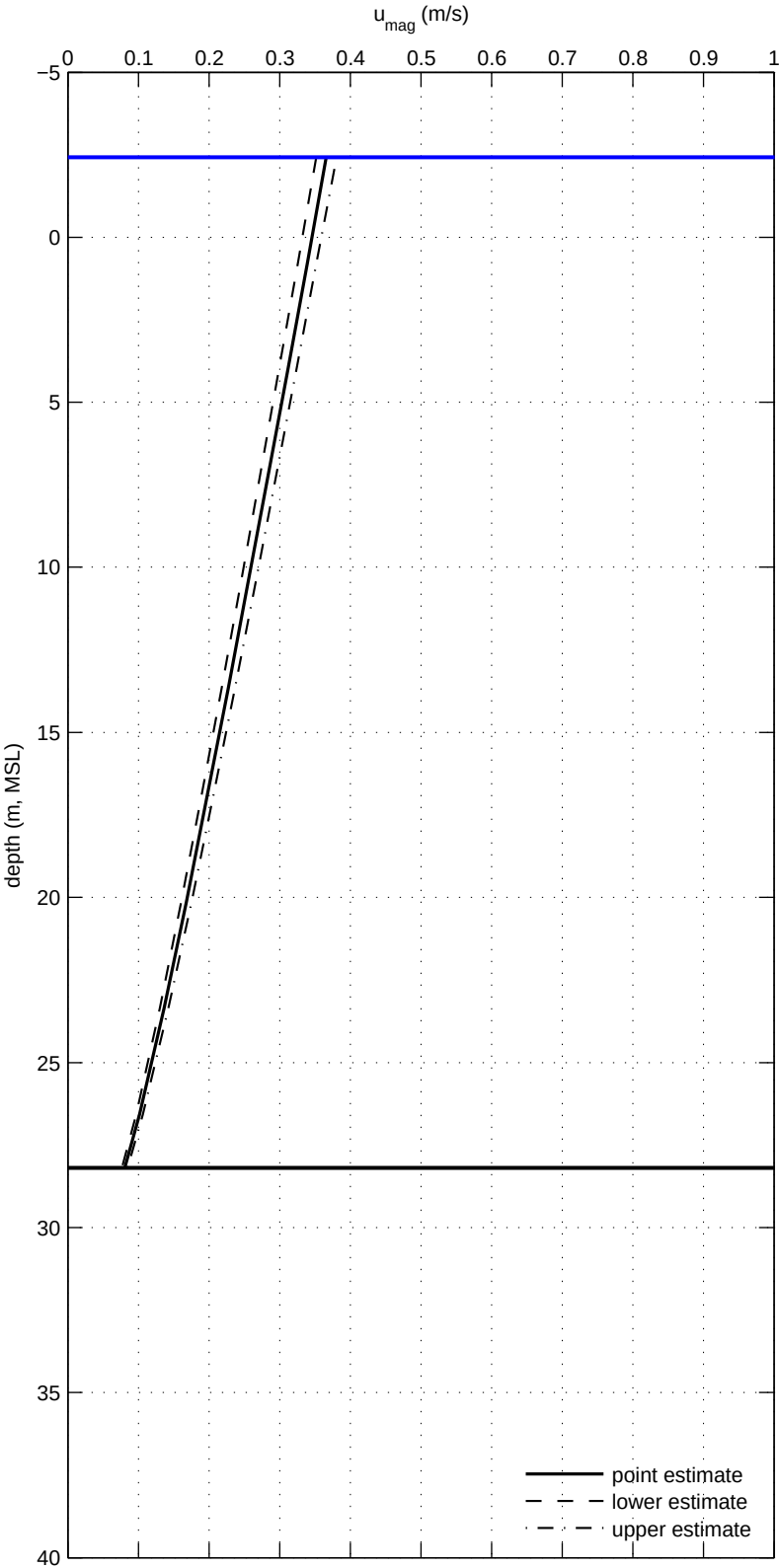
U10 = 17.4 m/s

Deltares

App. C.3.013

RP = 2 yr (U10 = 16.2 m/s)

Dir sector NNE



Current profile for directional sector NNE

RP = 2 yr

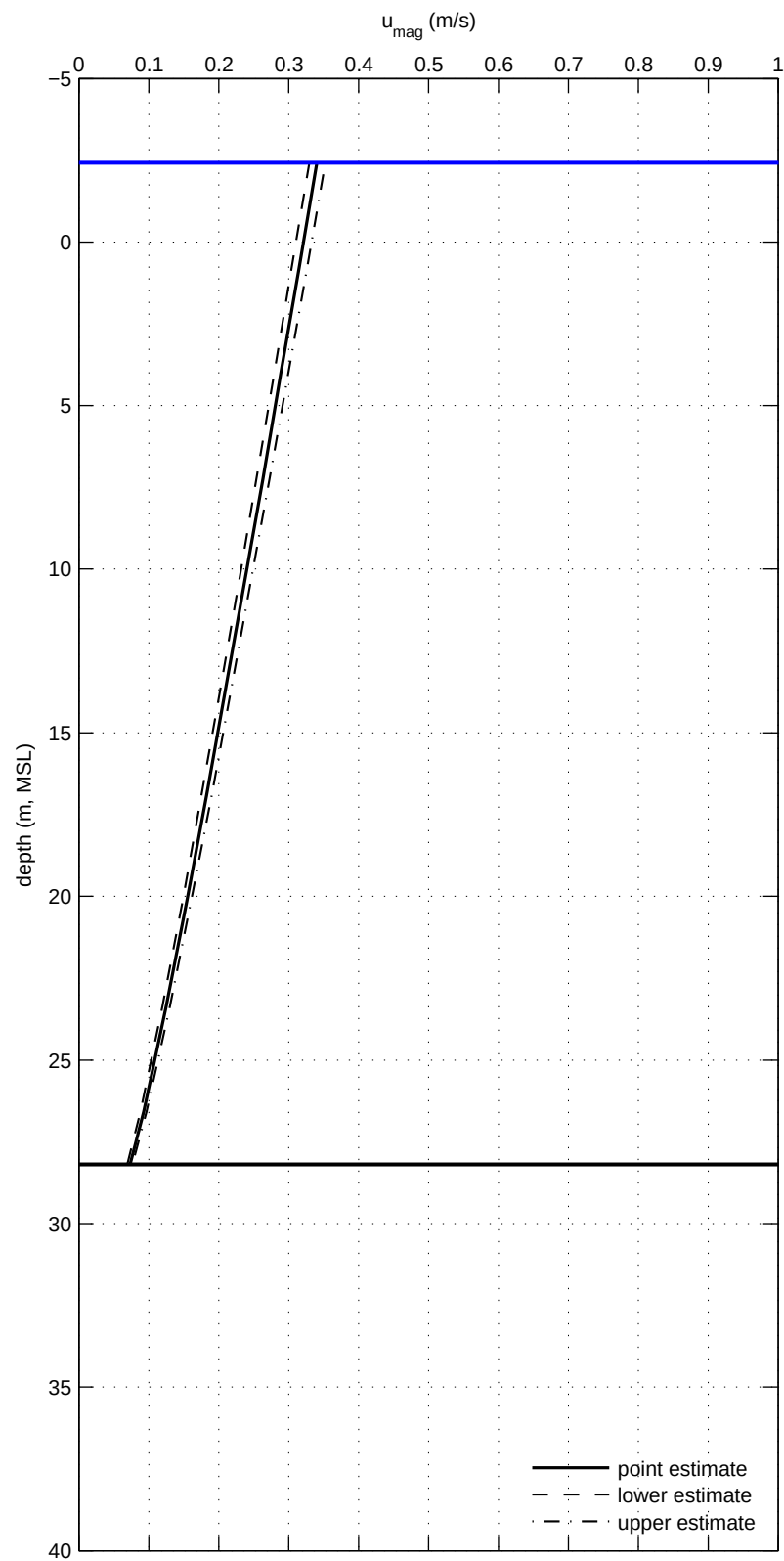
U10 = 16.2 m/s

Deltares

App. C.3.014

RP = 2 yr (U10 = 15.2 m/s)

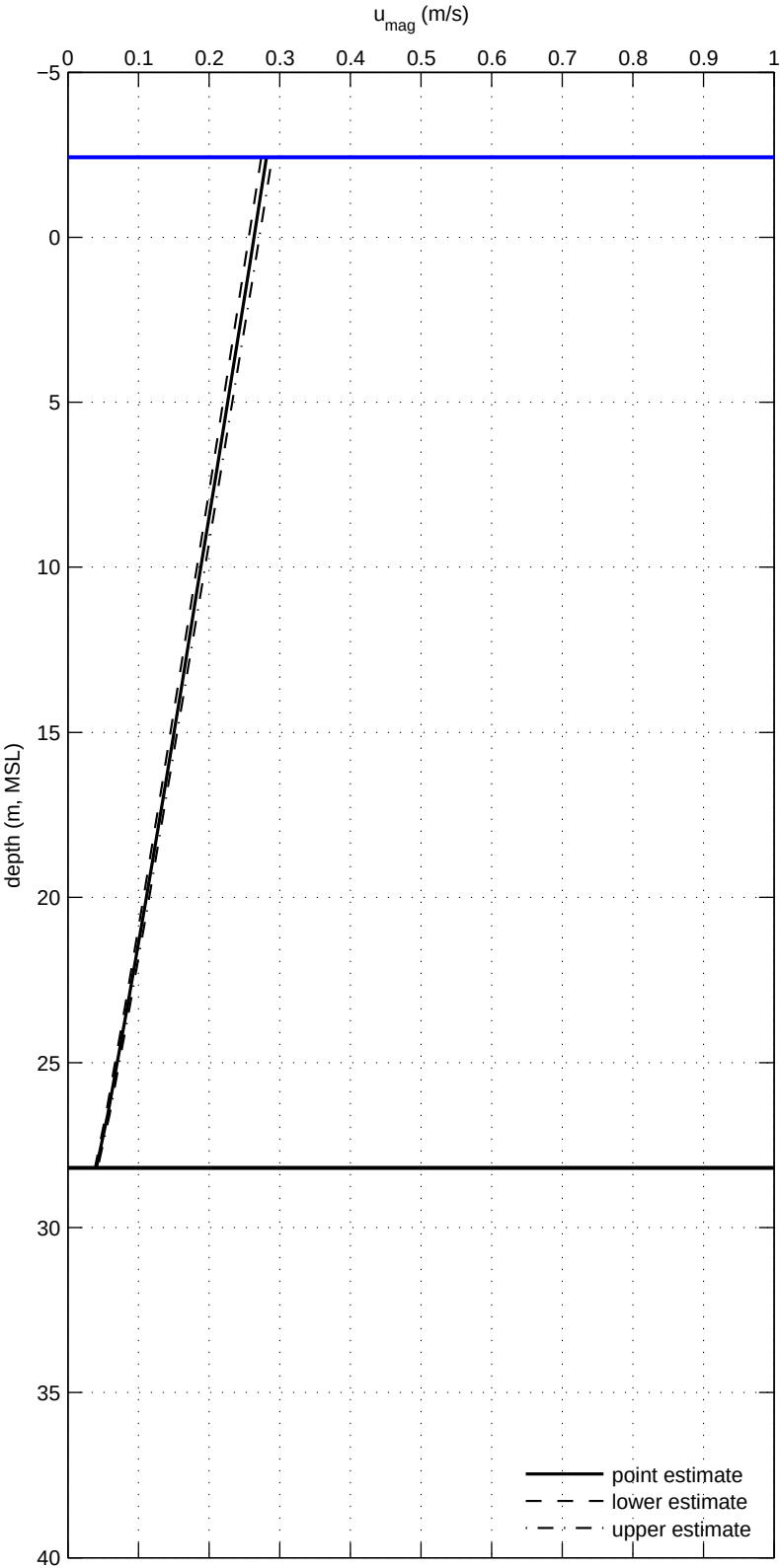
Dir sector ENE



Current profile for directional sector ENE	RP = 2 yr	U10 = 15.2 m/s
Deltares		App. C.3.015

RP = 2 yr (U10 = 14.6 m/s)

Dir sector E



Current profile for directional sector E

RP = 2 yr

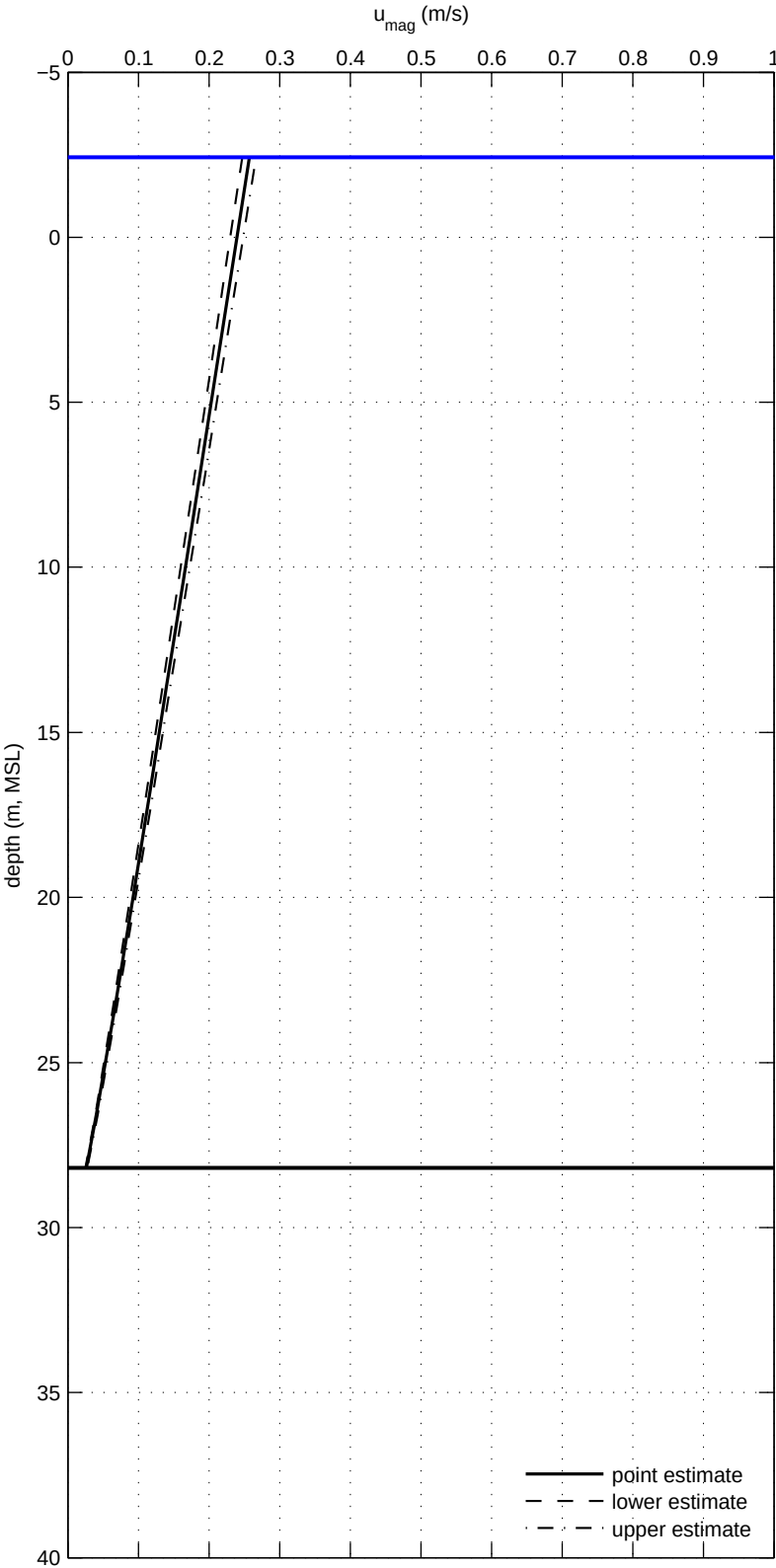
U10 = 14.6 m/s

Deltares

App. C.3.016

RP = 2 yr (U10 = 14.4 m/s)

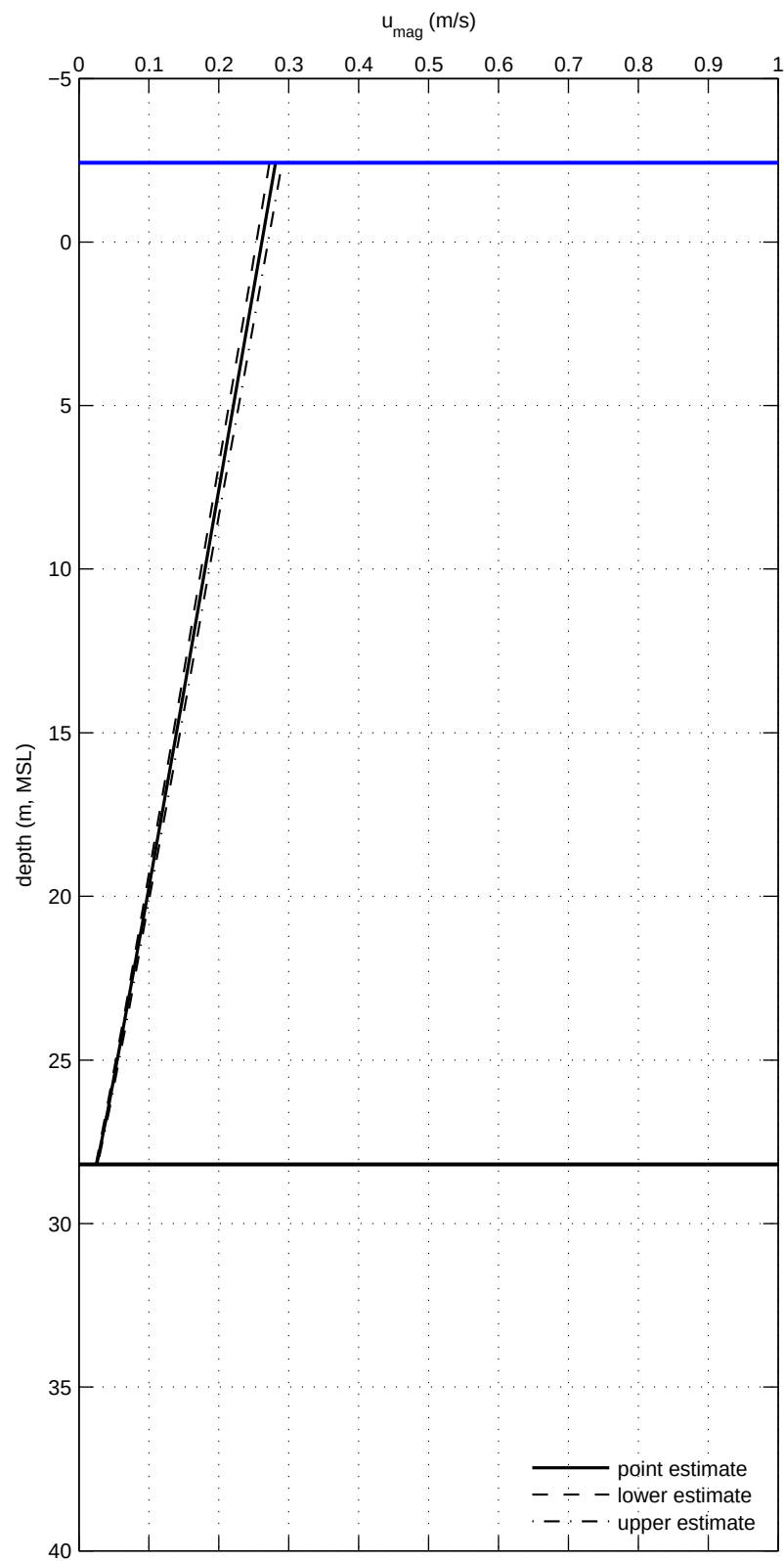
Dir sector ESE



Current profile for directional sector ESE	RP = 2 yr	U10 = 14.4 m/s
Deltares		App. C.3.017

RP = 2 yr (U10 = 16.1 m/s)

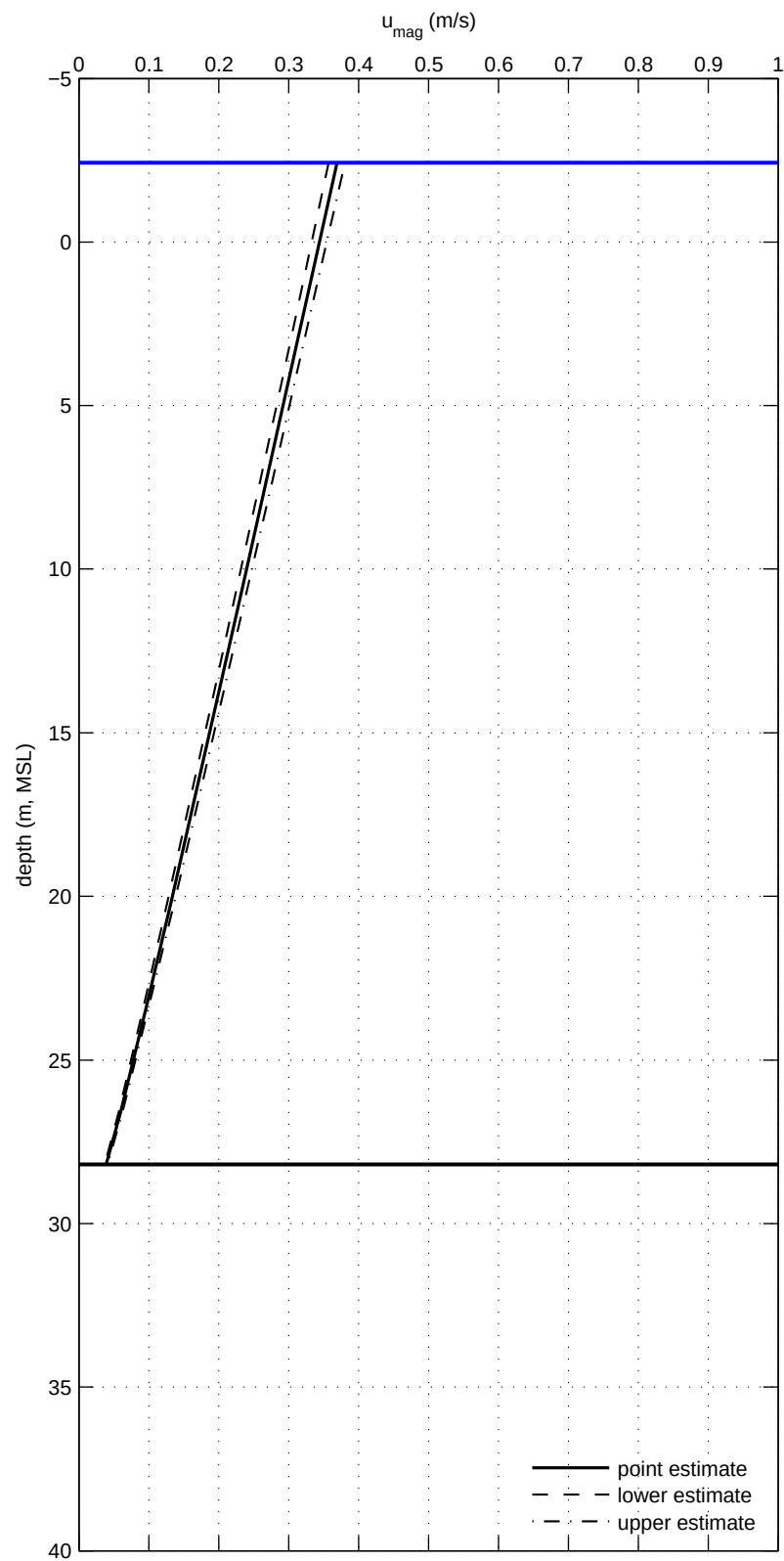
Dir sector SSE



Current profile for directional sector SSE	RP = 2 yr	U10 = 16.1 m/s
Deltares		App. C.3.018

RP = 2 yr (U10 = 20.6 m/s)

Dir sector S



Current profile for directional sector S

RP = 2 yr

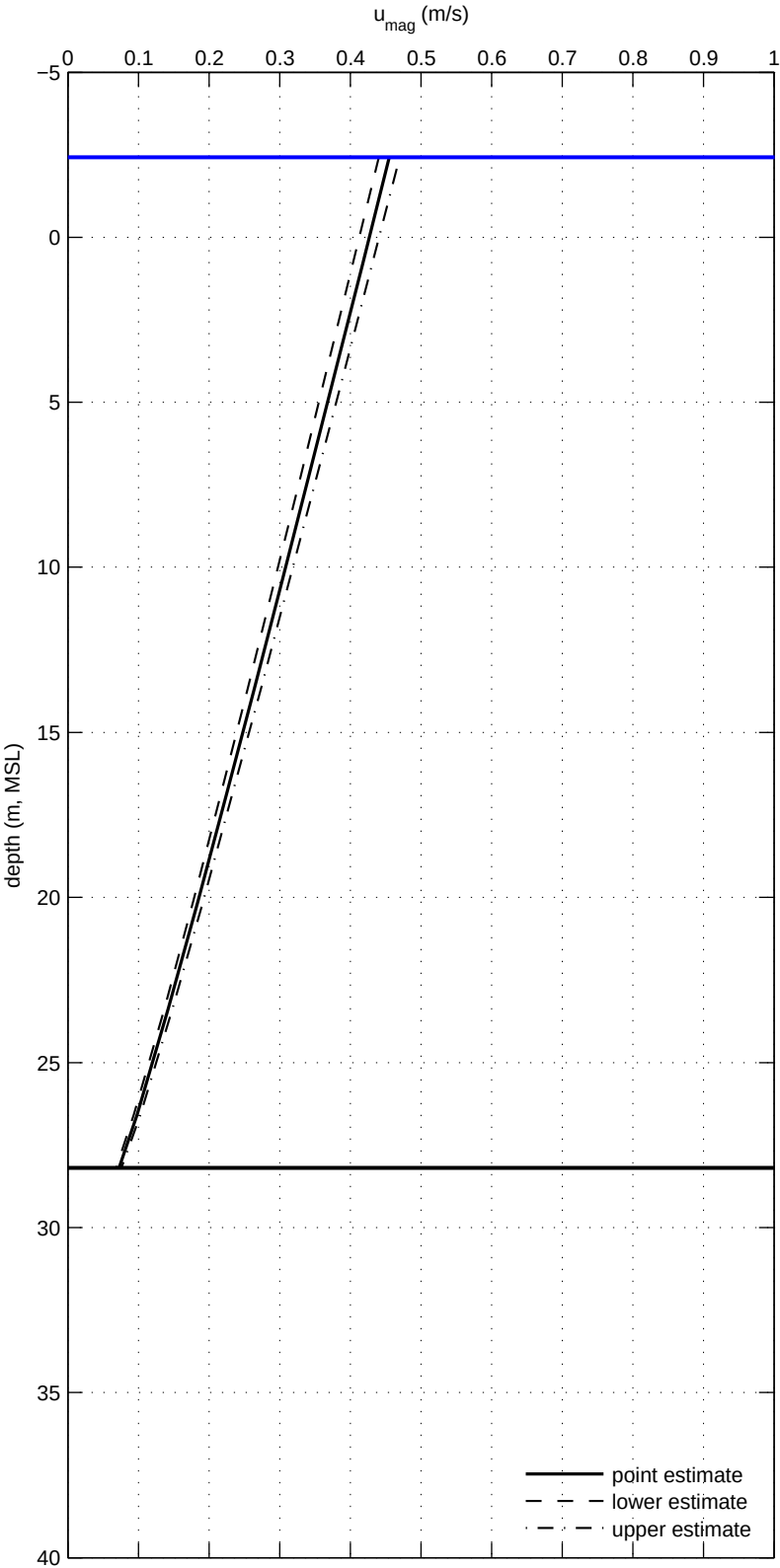
U10 = 20.6 m/s

Deltares

App. C.3.019

RP = 2 yr (U10 = 22.9 m/s)

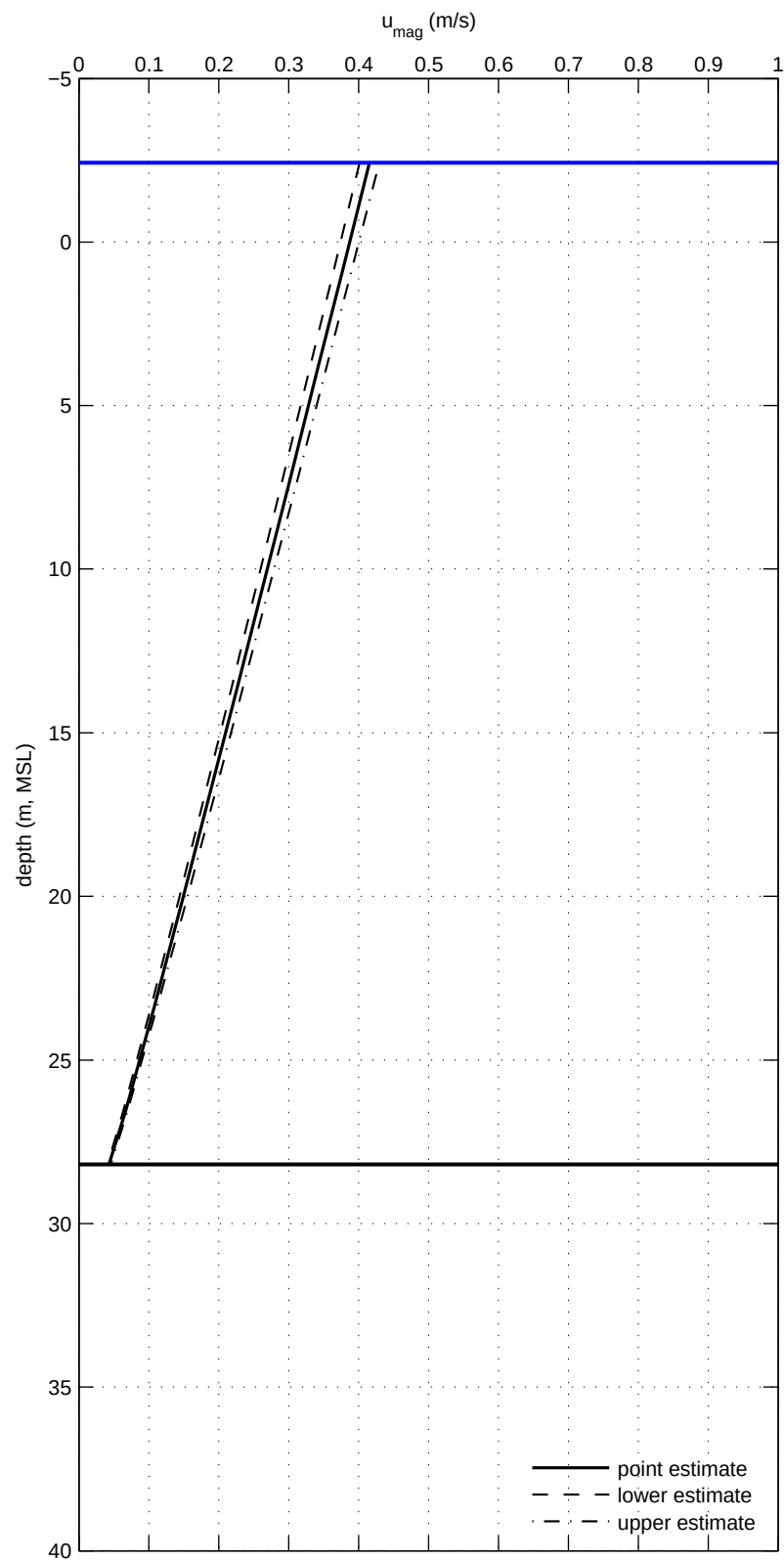
Dir sector SSW



Current profile for directional sector SSW	RP = 2 yr	U10 = 22.9 m/s
Deltares		App. C.3.020

RP = 2 yr (U10 = 23.2 m/s)

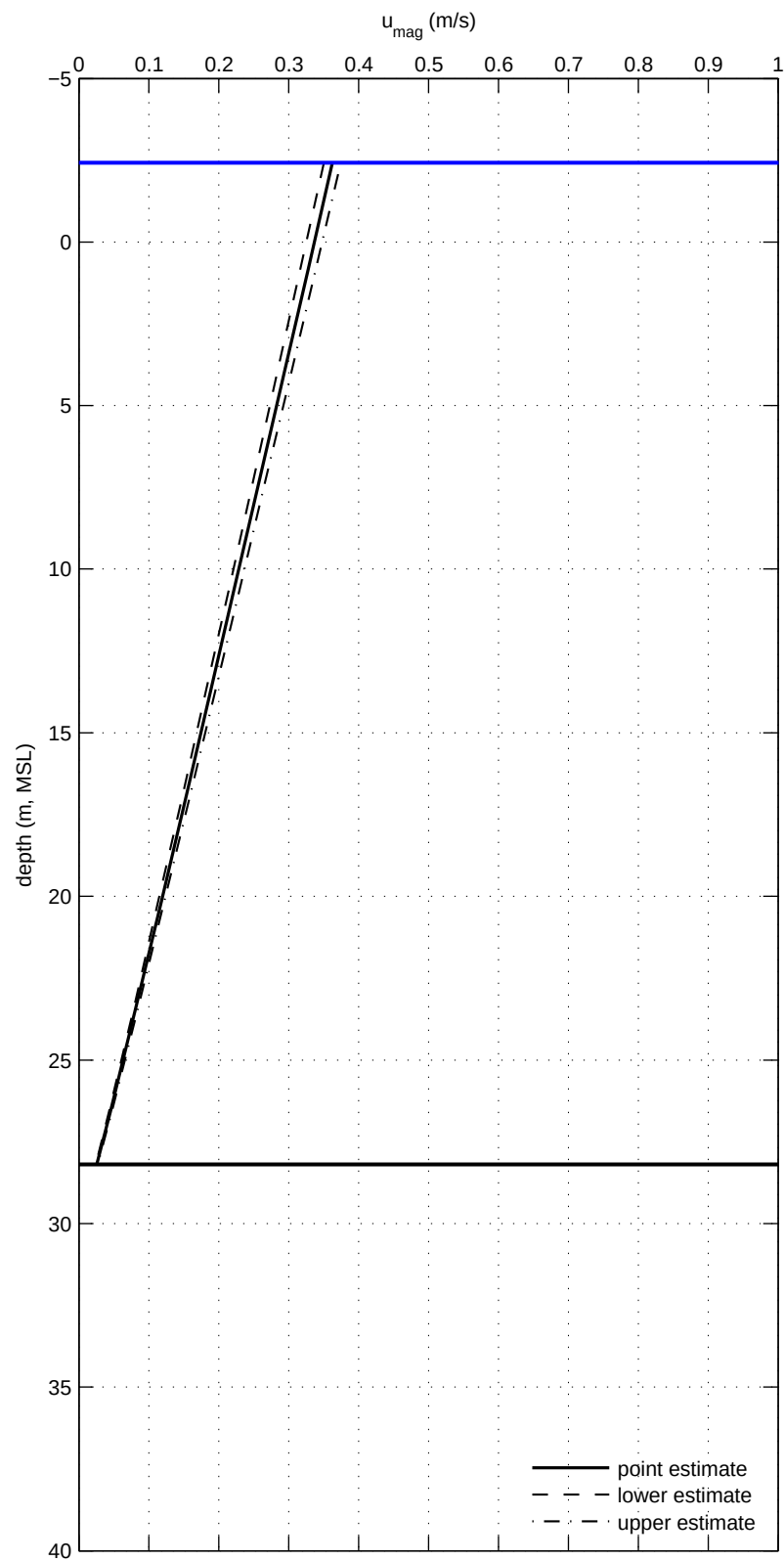
Dir sector WSW



Current profile for directional sector WSW	RP = 2 yr	U10 = 23.2 m/s
Deltares		App. C.3.021

RP = 2 yr (U10 = 21.6 m/s)

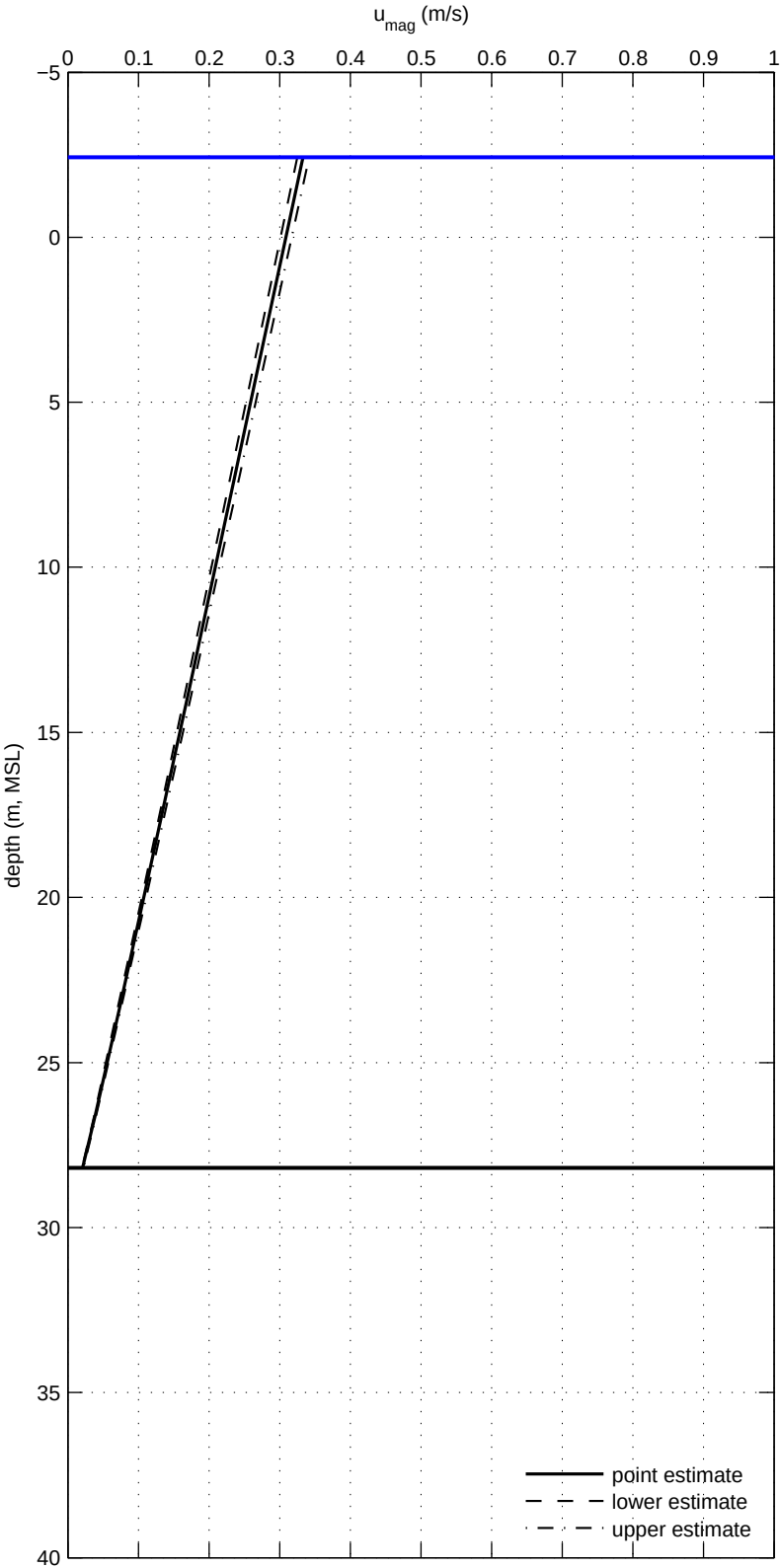
Dir sector W



Current profile for directional sector W	RP = 2 yr	U10 = 21.6 m/s
Deltares		App. C.3.022

RP = 2 yr (U10 = 20.1 m/s)

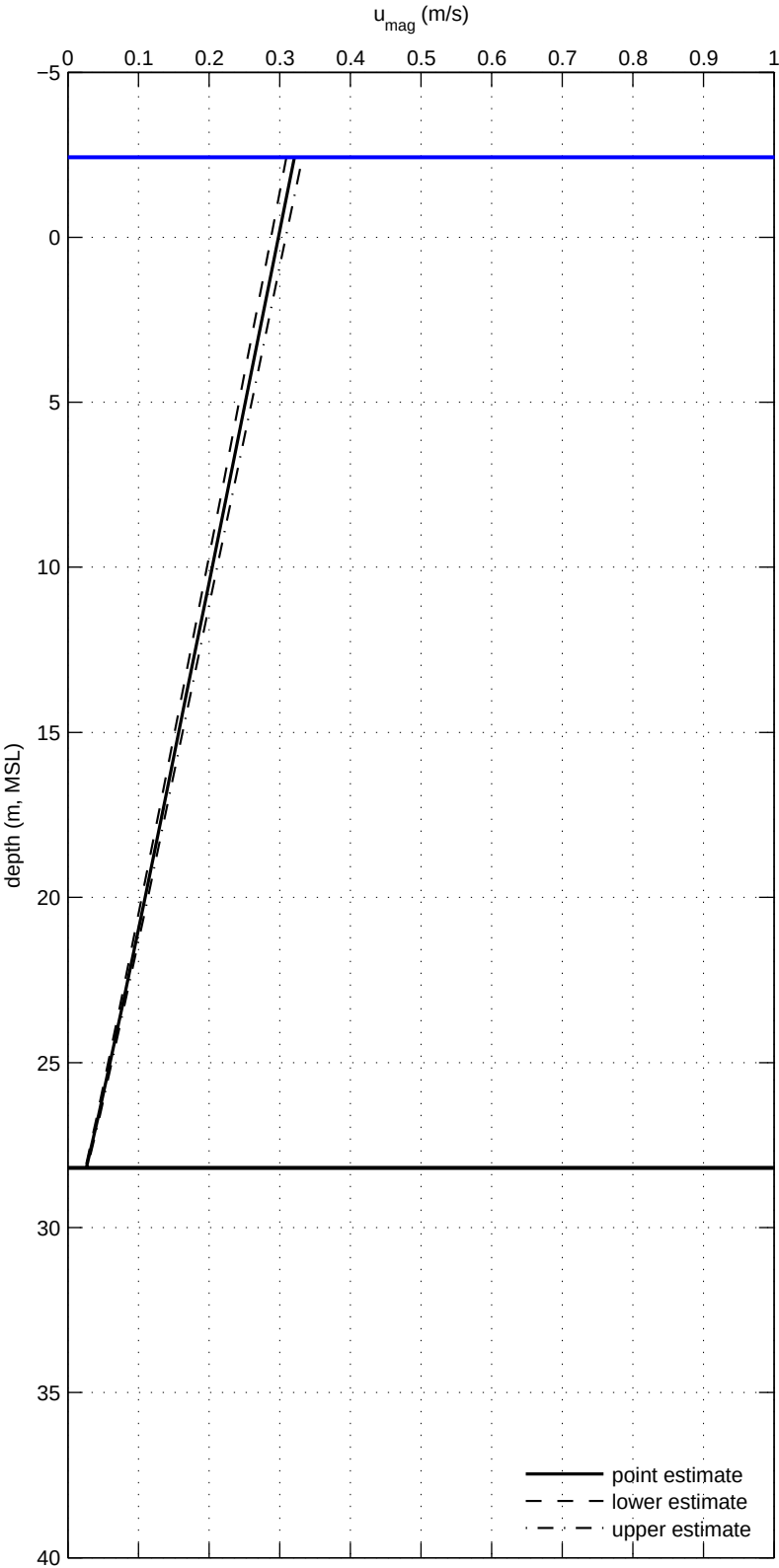
Dir sector WNW



Current profile for directional sector WNW	RP = 2 yr	U10 = 20.1 m/s
Deltares		App. C.3.023

RP = 2 yr (U10 = 18.7 m/s)

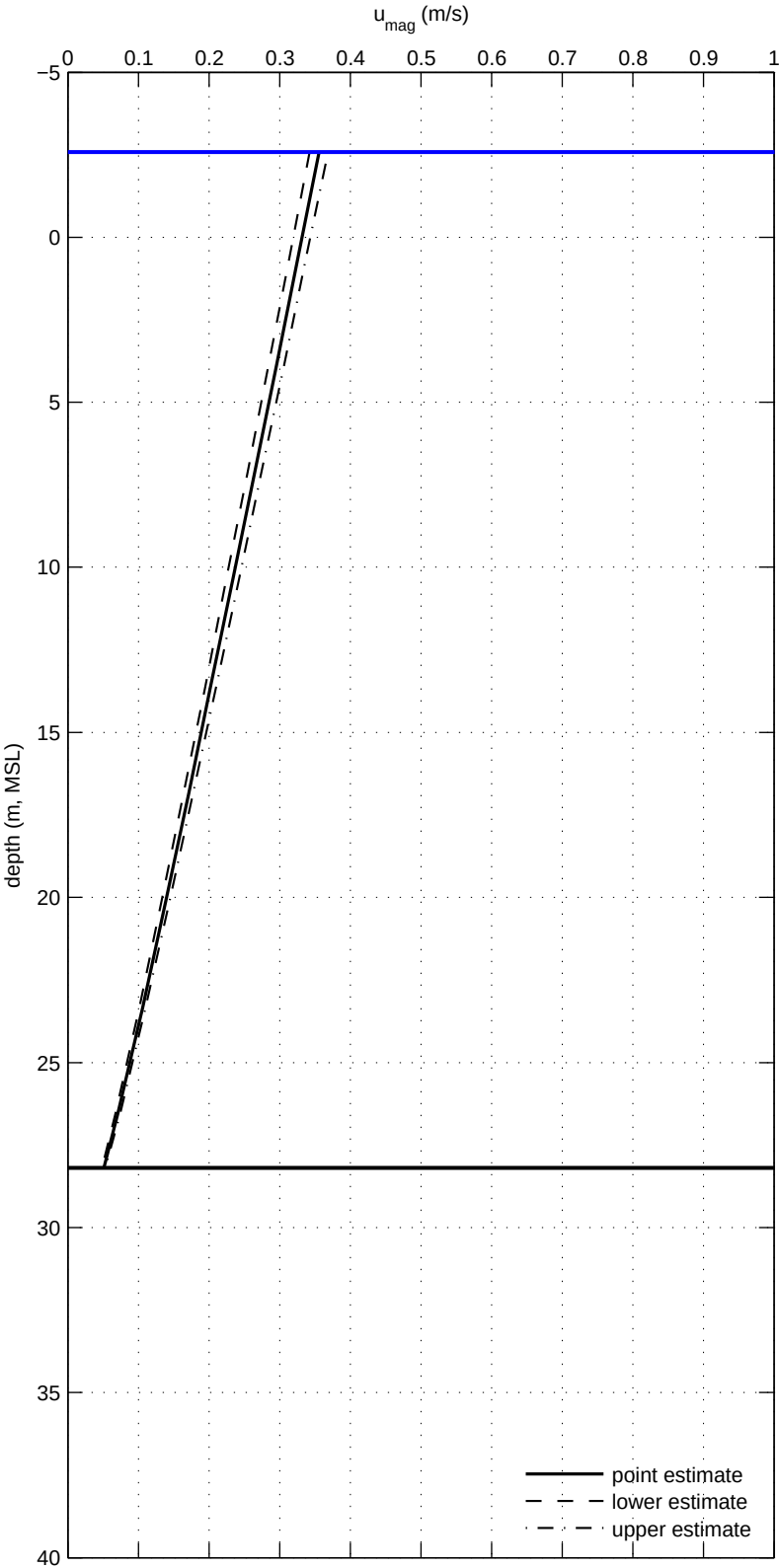
Dir sector NNW



Current profile for directional sector NNW	RP = 2 yr	U10 = 18.7 m/s
Deltares		App. C.3.024

RP = 5 yr (U10 = 18.5 m/s)

Dir sector N



Current profile for directional sector N

RP = 5 yr

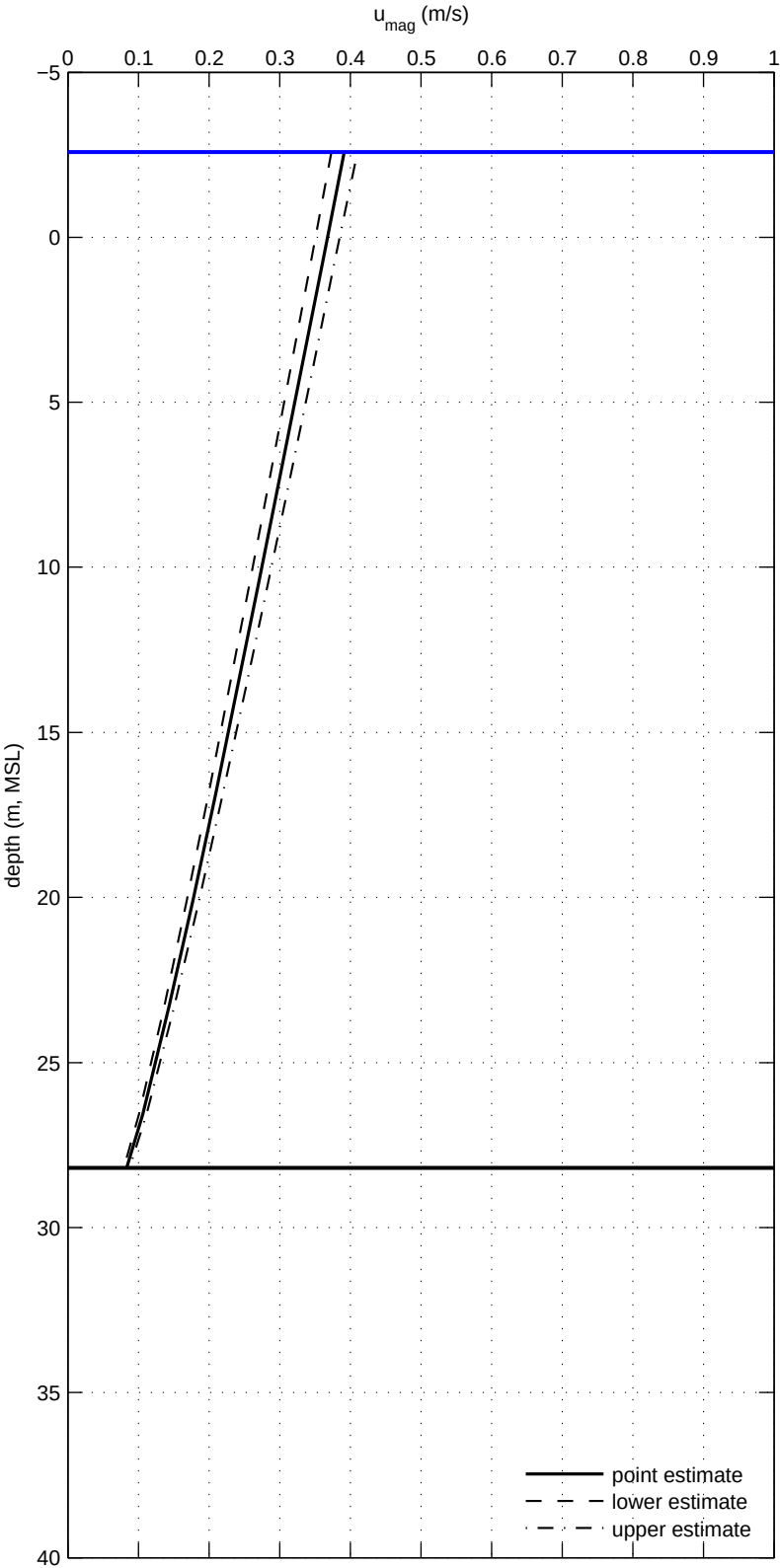
U10 = 18.5 m/s

Deltares

App. C.3.025

RP = 5 yr (U10 = 17.5 m/s)

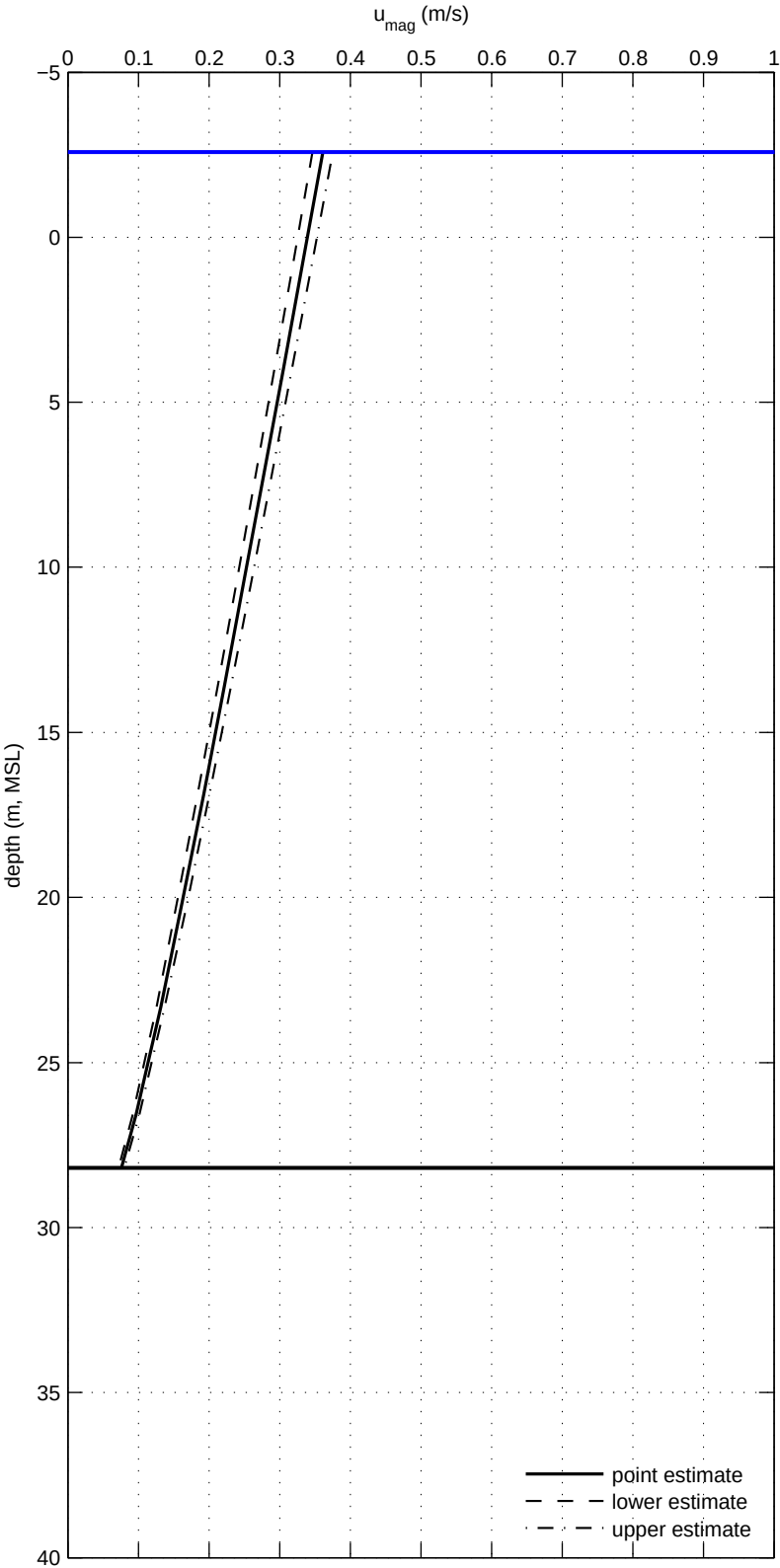
Dir sector NNE



Current profile for directional sector NNE	RP = 5 yr	U10 = 17.5 m/s
Deltares		App. C.3.026

RP = 5 yr (U10 = 16.3 m/s)

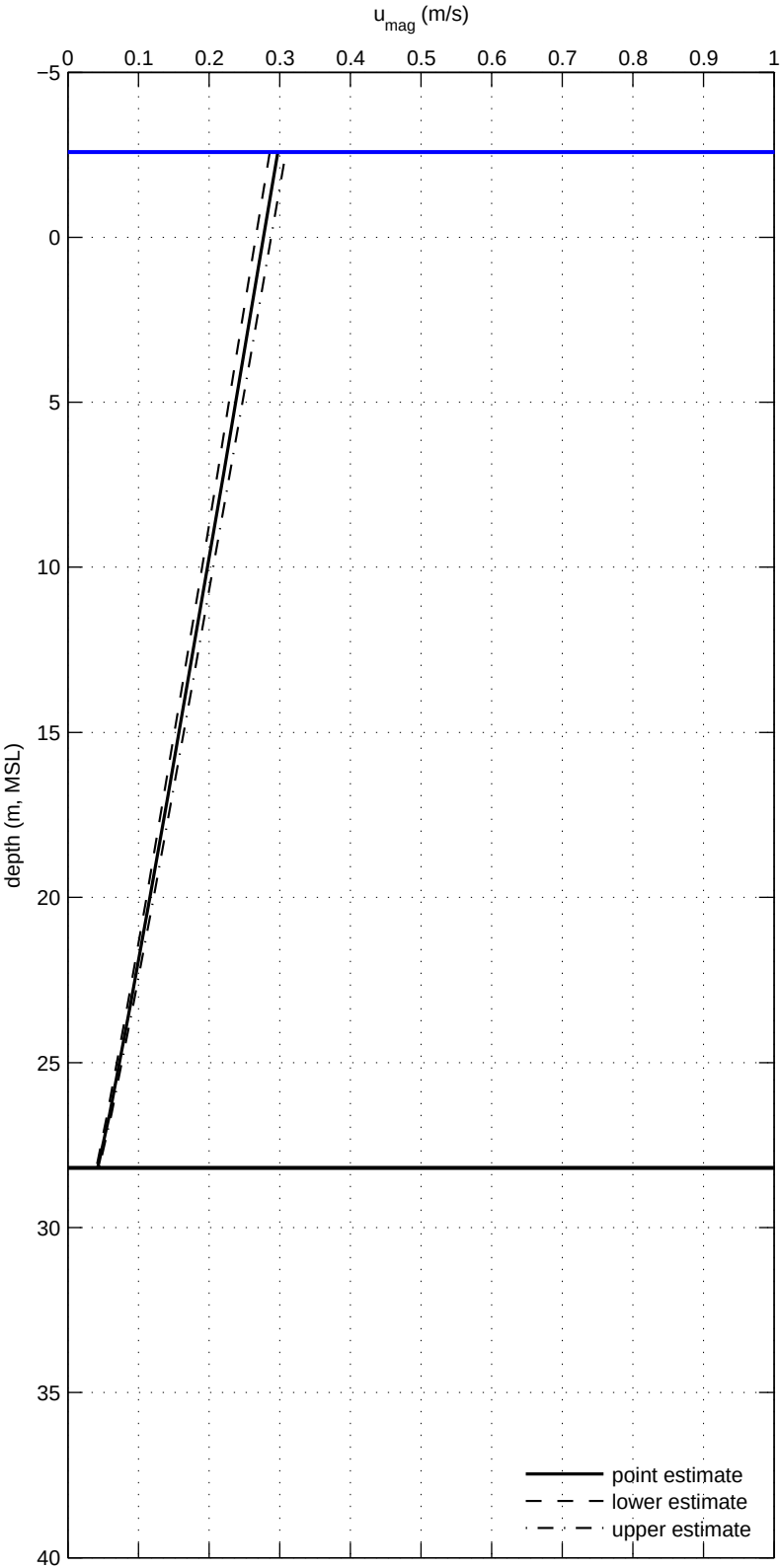
Dir sector ENE



Current profile for directional sector ENE	RP = 5 yr	U10 = 16.3 m/s
Deltares		App. C.3.027

RP = 5 yr (U10 = 15.5 m/s)

Dir sector E



Current profile for directional sector E

RP = 5 yr

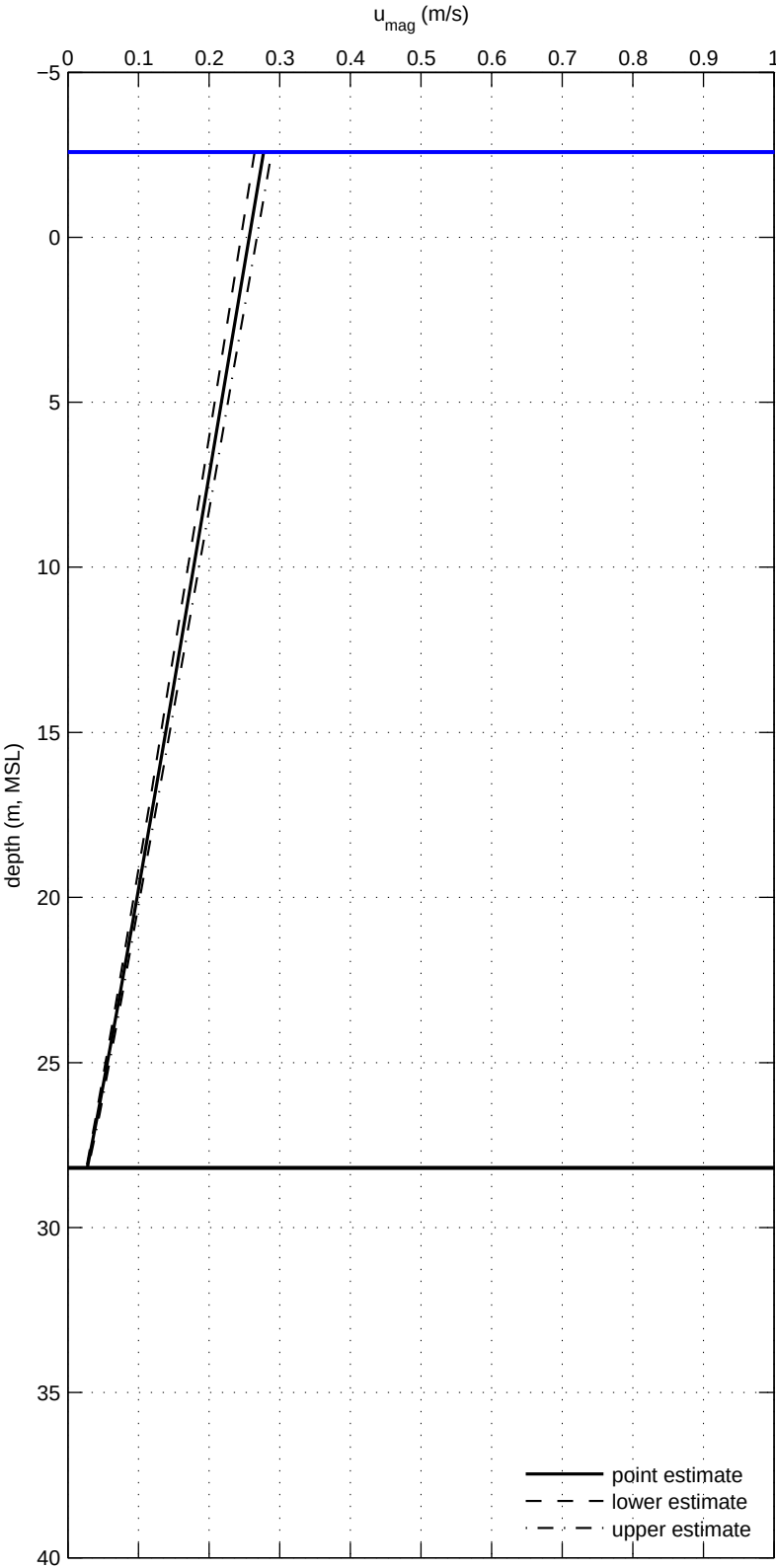
U10 = 15.5 m/s

Deltares

App. C.3.028

RP = 5 yr (U10 = 15.6 m/s)

Dir sector ESE



Current profile for directional sector ESE

RP = 5 yr

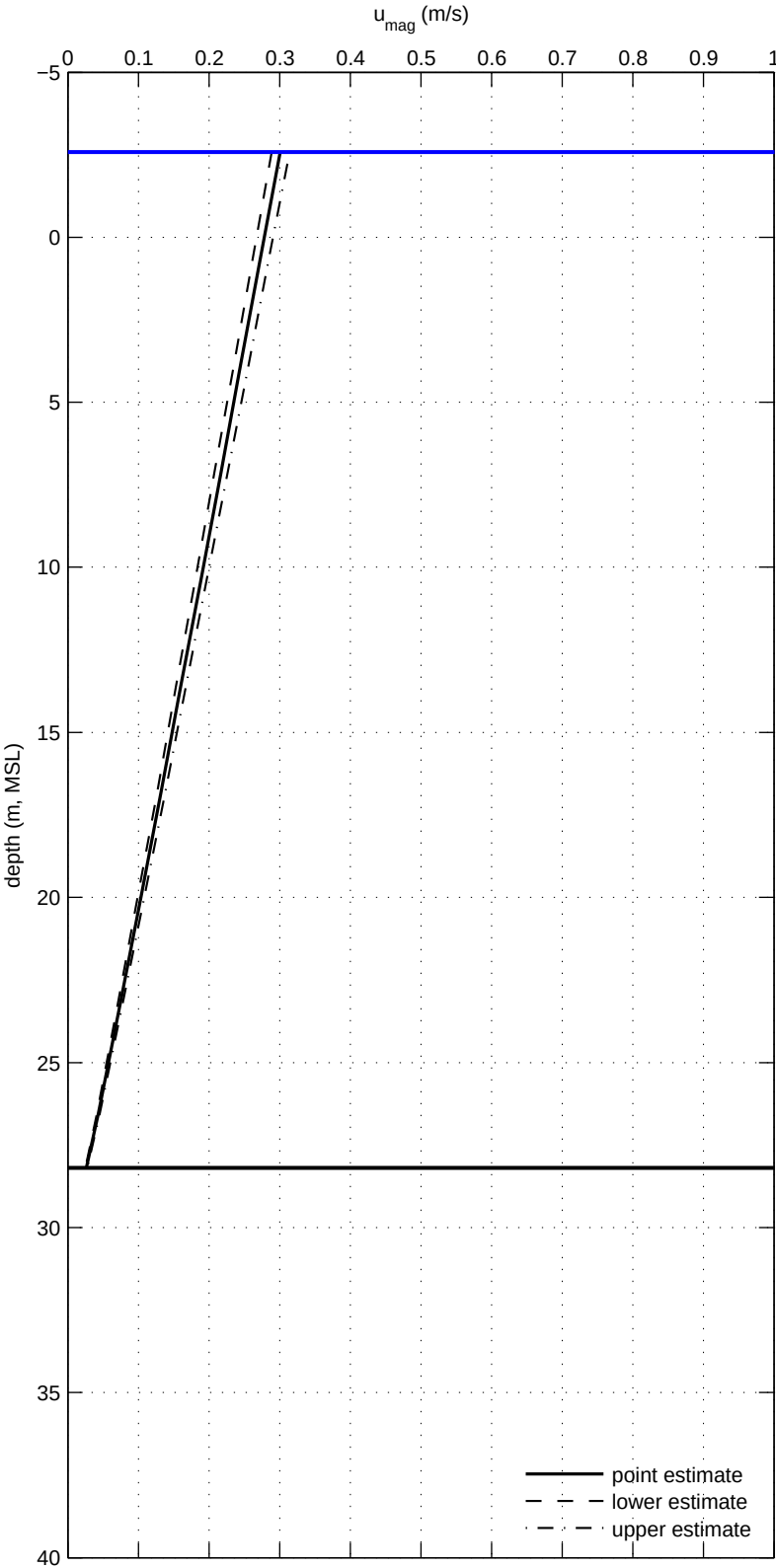
U10 = 15.6 m/s

Deltares

App. C.3.029

RP = 5 yr (U10 = 17.3 m/s)

Dir sector SSE



Current profile for directional sector SSE

RP = 5 yr

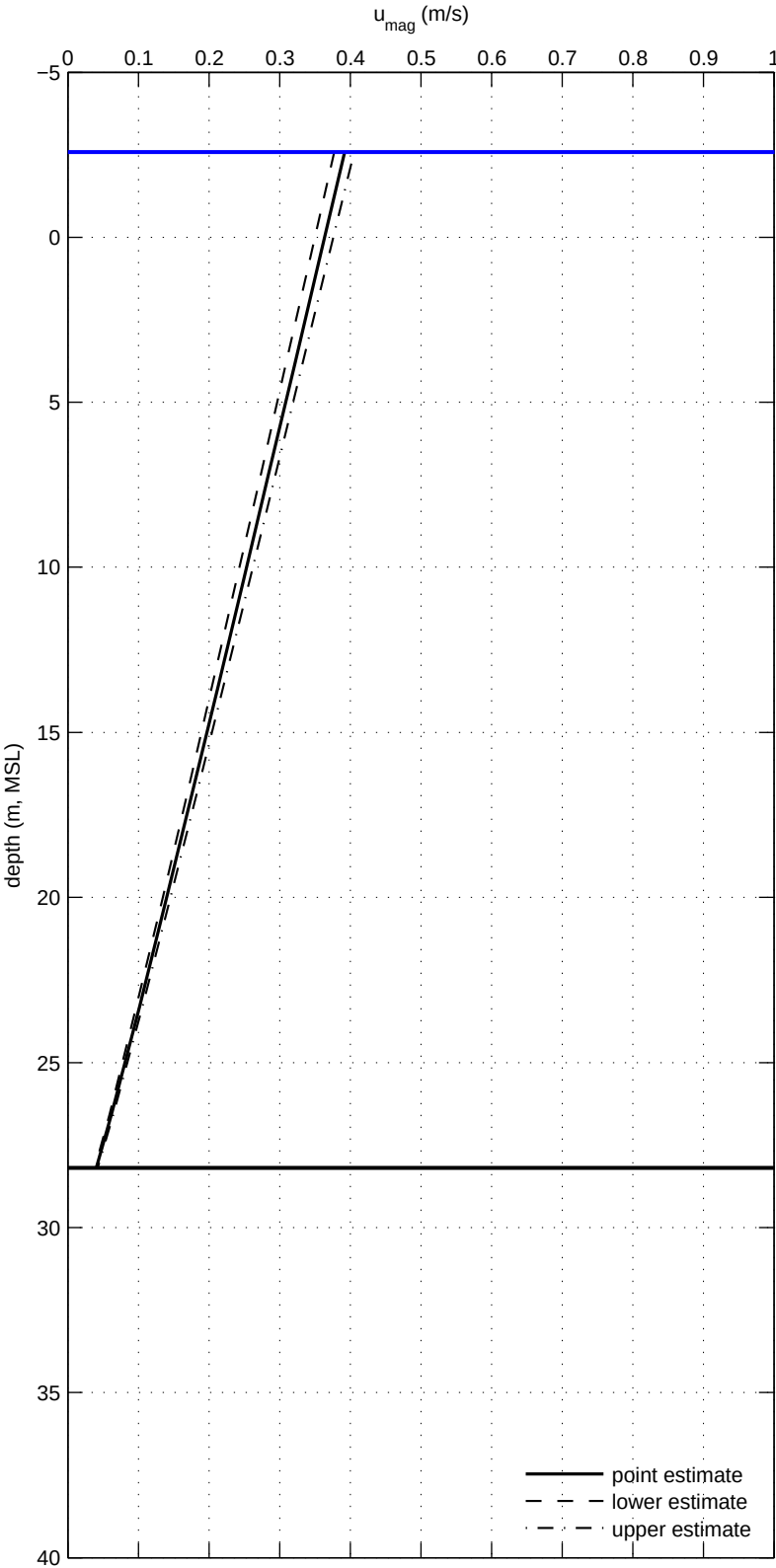
U10 = 17.3 m/s

Deltares

App. C.3.030

RP = 5 yr (U10 = 22.0 m/s)

Dir sector S



Current profile for directional sector S

RP = 5 yr

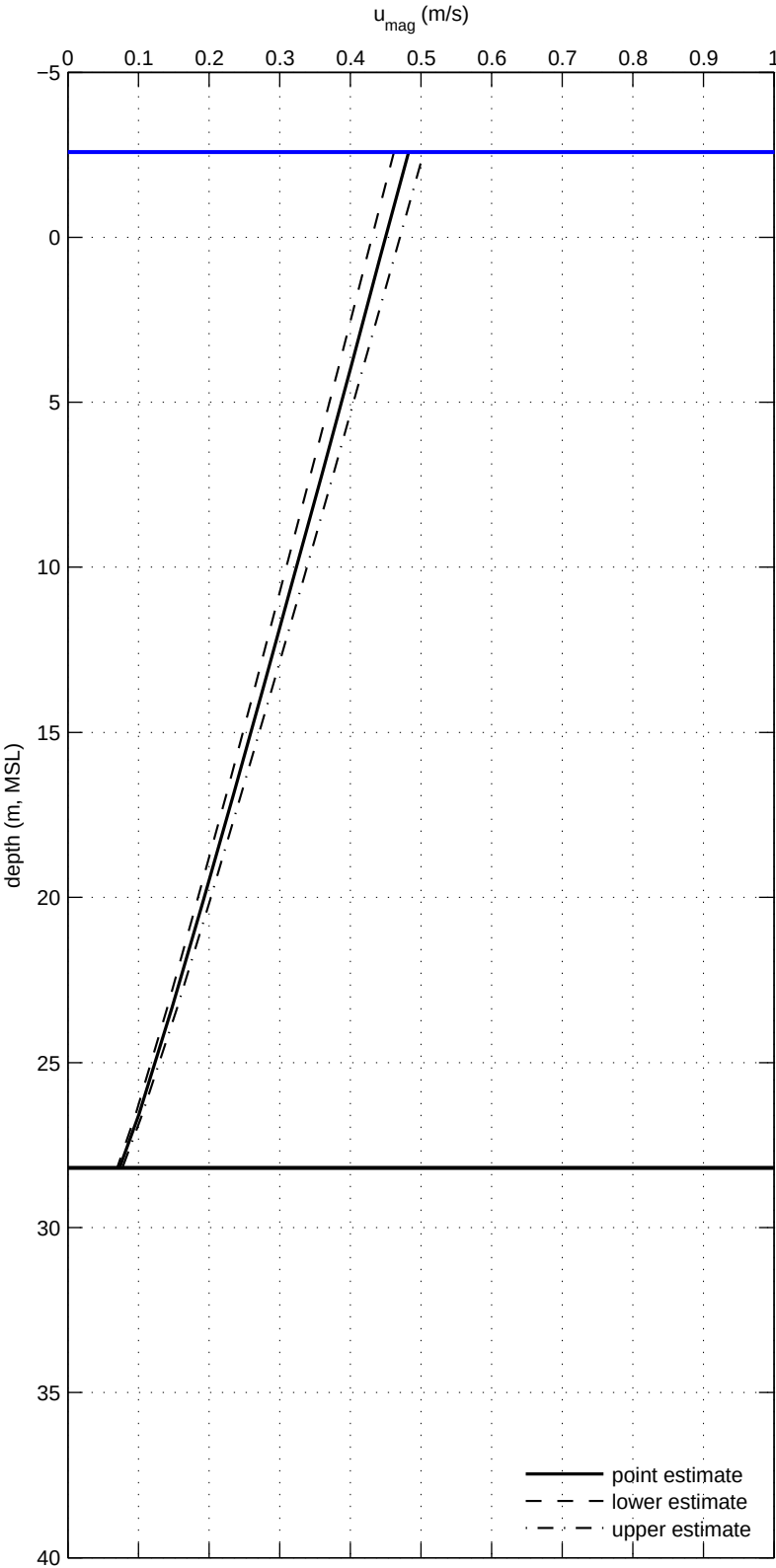
U10 = 22.0 m/s

Deltares

App. C.3.031

RP = 5 yr (U10 = 24.7 m/s)

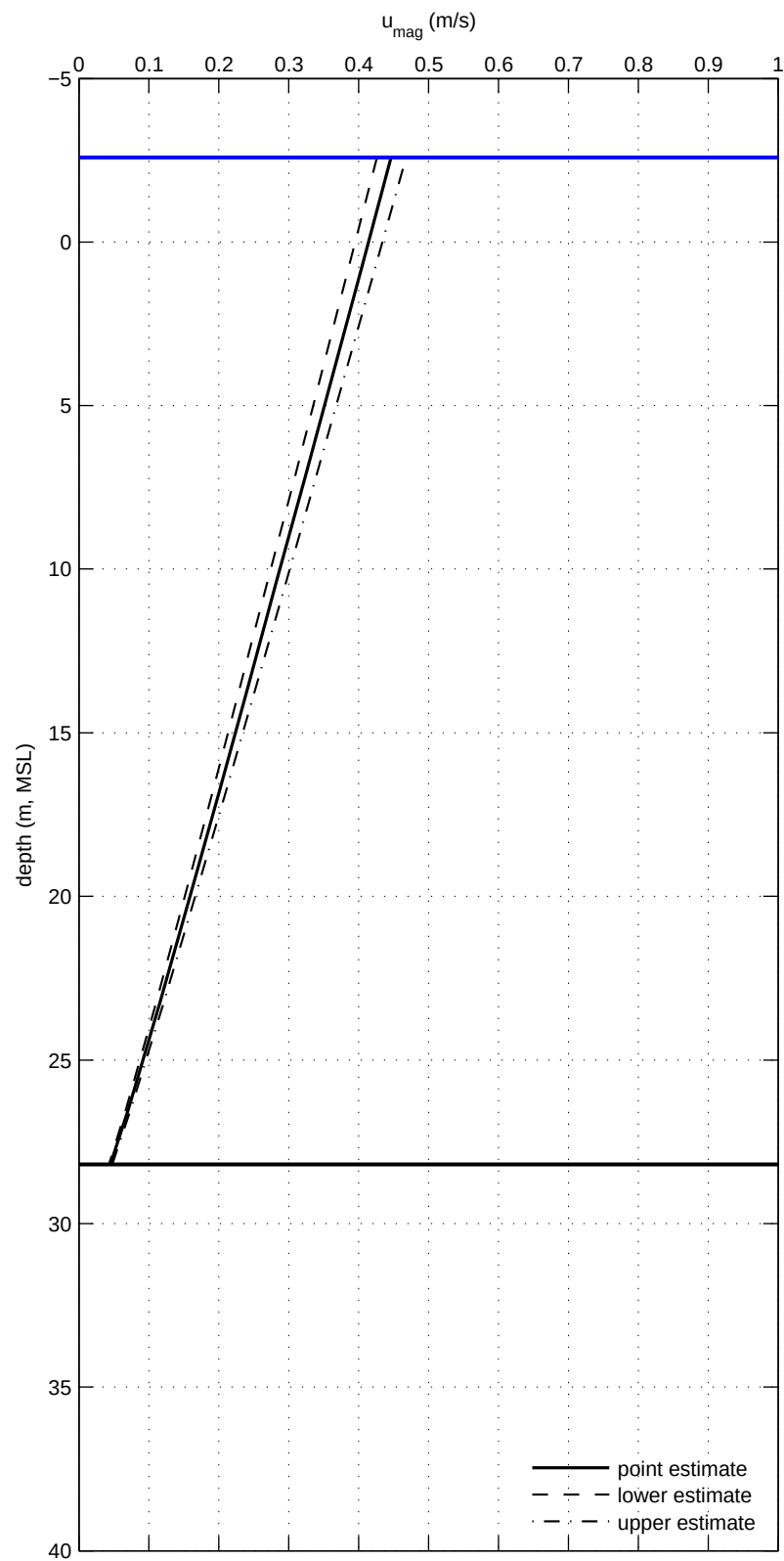
Dir sector SSW



Current profile for directional sector SSW	RP = 5 yr	U10 = 24.7 m/s
Deltares		App. C.3.032

RP = 5 yr (U10 = 25.1 m/s)

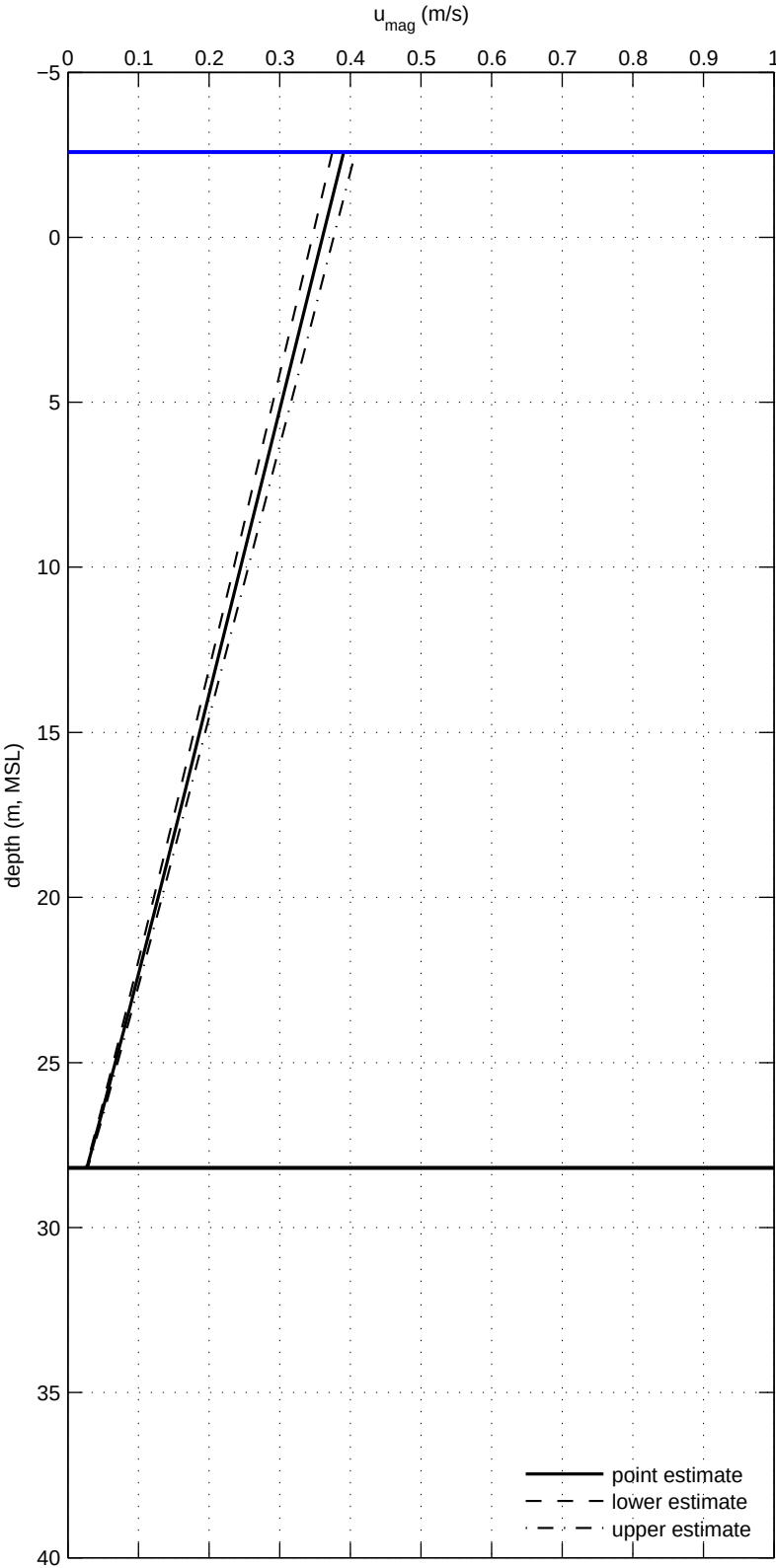
Dir sector WSW



Current profile for directional sector WSW	RP = 5 yr	U10 = 25.1 m/s
Deltares		App. C.3.033

RP = 5 yr (U10 = 23.3 m/s)

Dir sector W



Current profile for directional sector W

RP = 5 yr

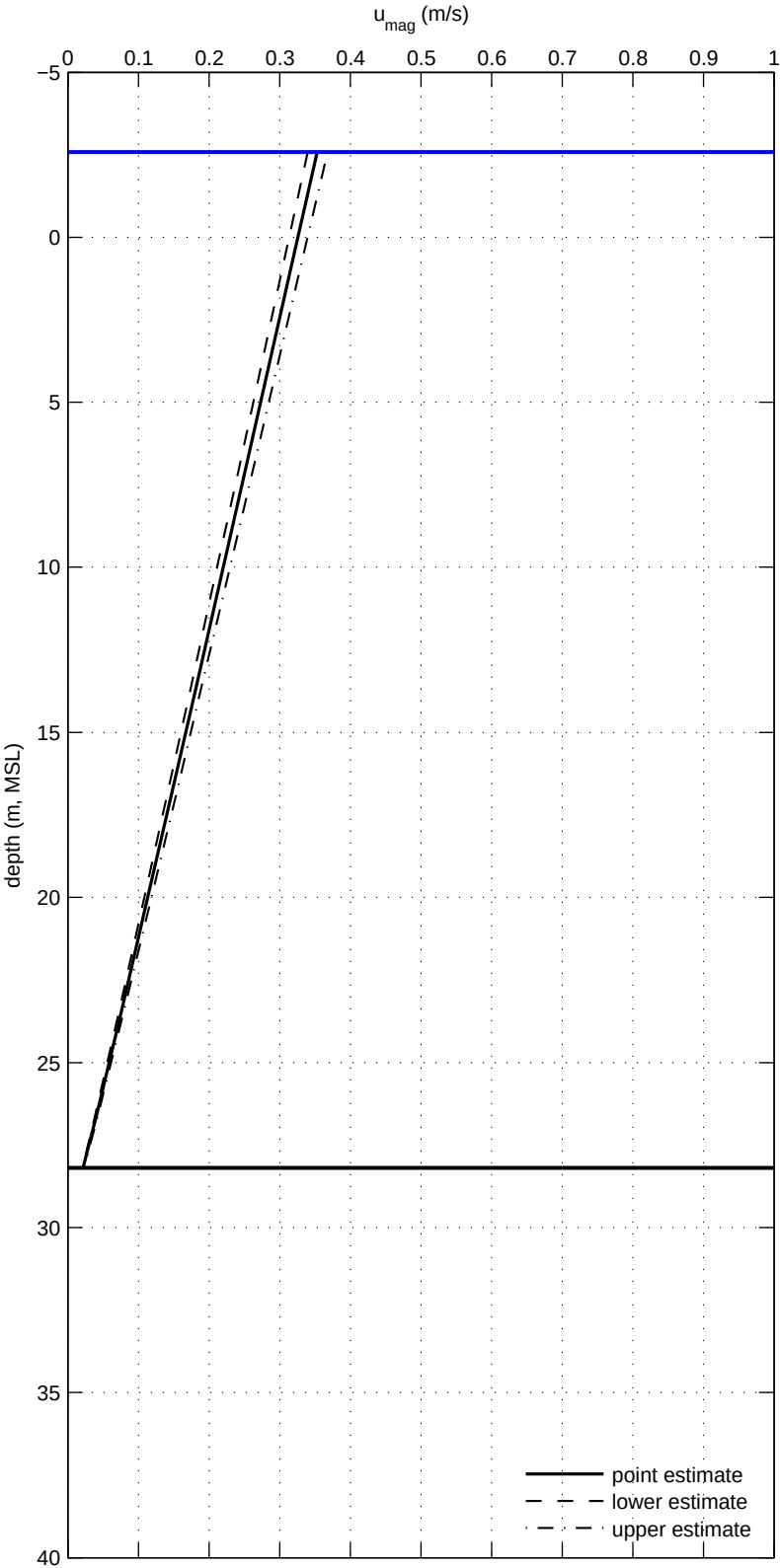
U10 = 23.3 m/s

Deltares

App. C.3.034

RP = 5 yr (U10 = 21.3 m/s)

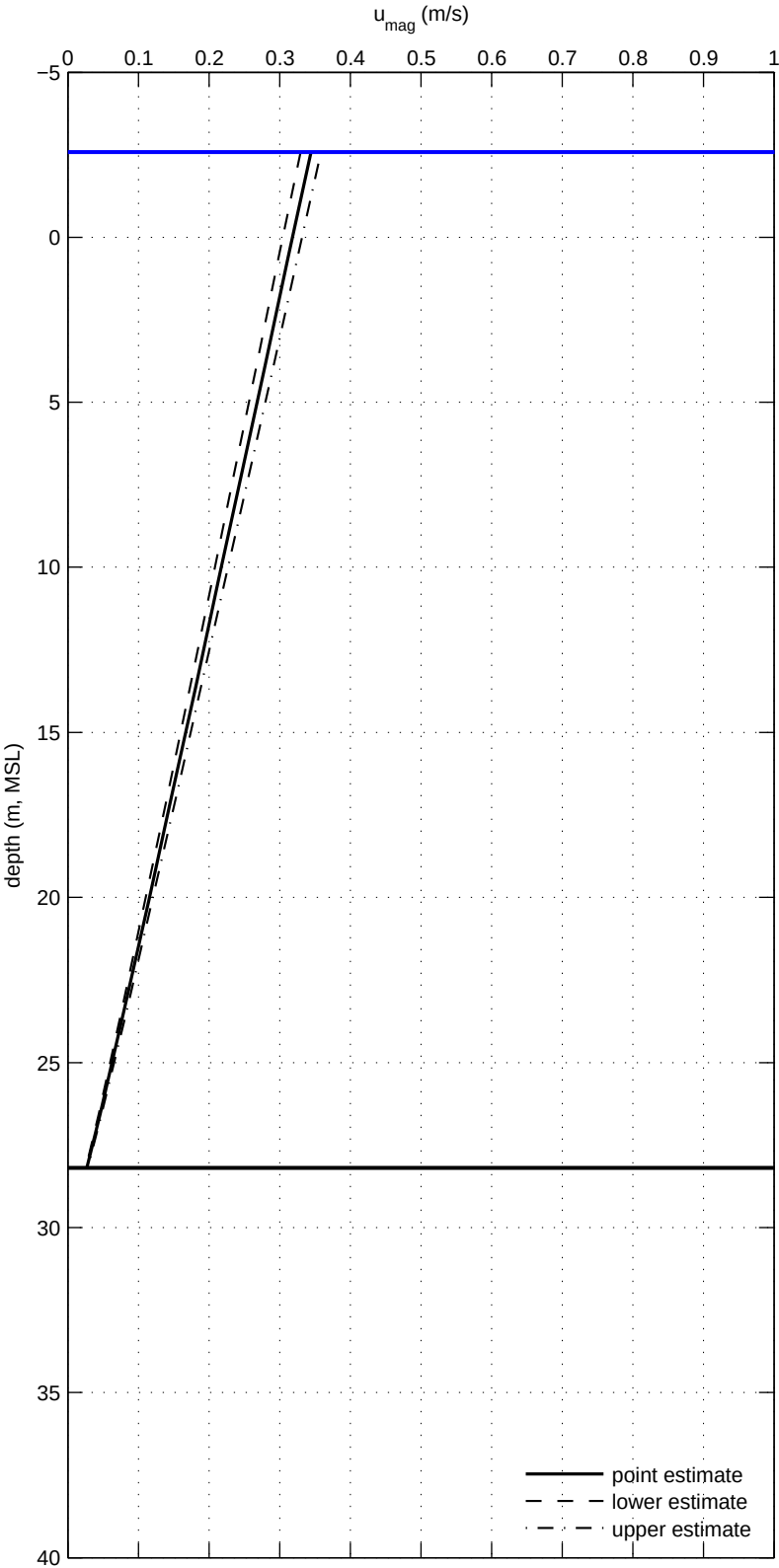
Dir sector WNW



Current profile for directional sector WNW	RP = 5 yr	U10 = 21.3 m/s
Deltares		App. C.3.035

RP = 5 yr (U10 = 20.2 m/s)

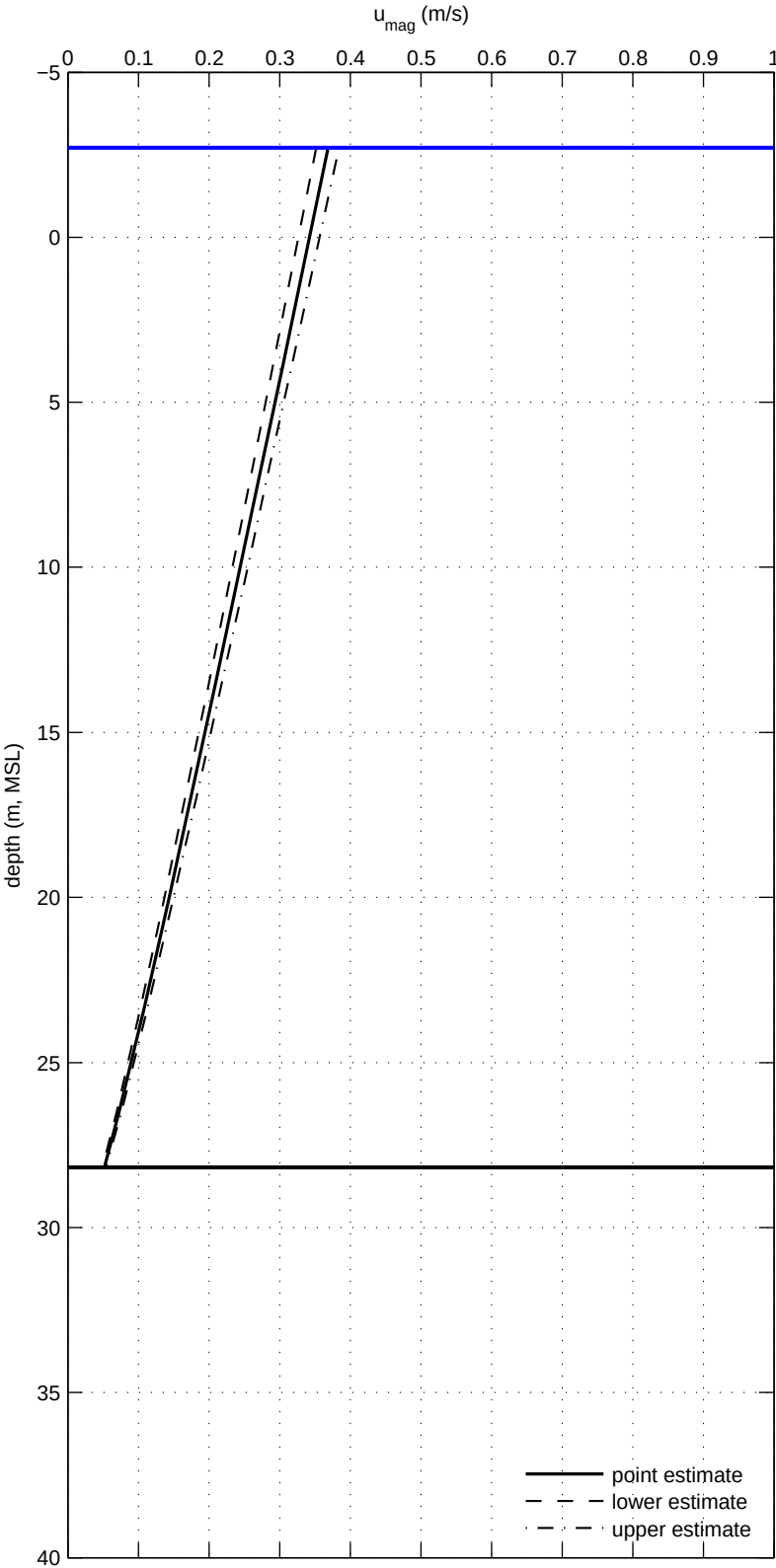
Dir sector NNW



Current profile for directional sector NNW	RP = 5 yr	U10 = 20.2 m/s
Deltares		App. C.3.036

RP = 10 yr (U10 = 19.3 m/s)

Dir sector N



Current profile for directional sector N

RP = 10 yr

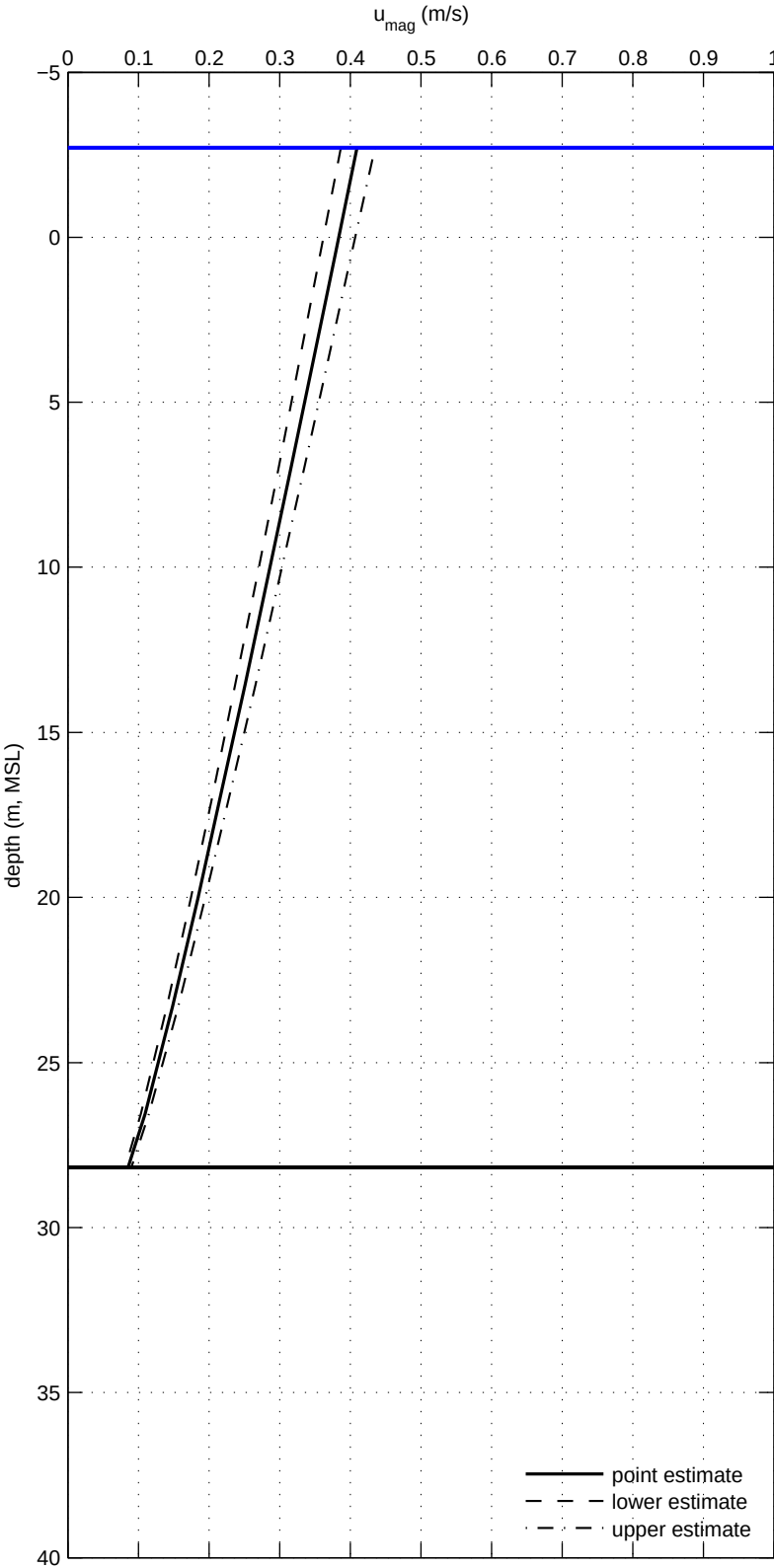
U10 = 19.3 m/s

Deltares

App. C.3.037

RP = 10 yr (U10 = 18.5 m/s)

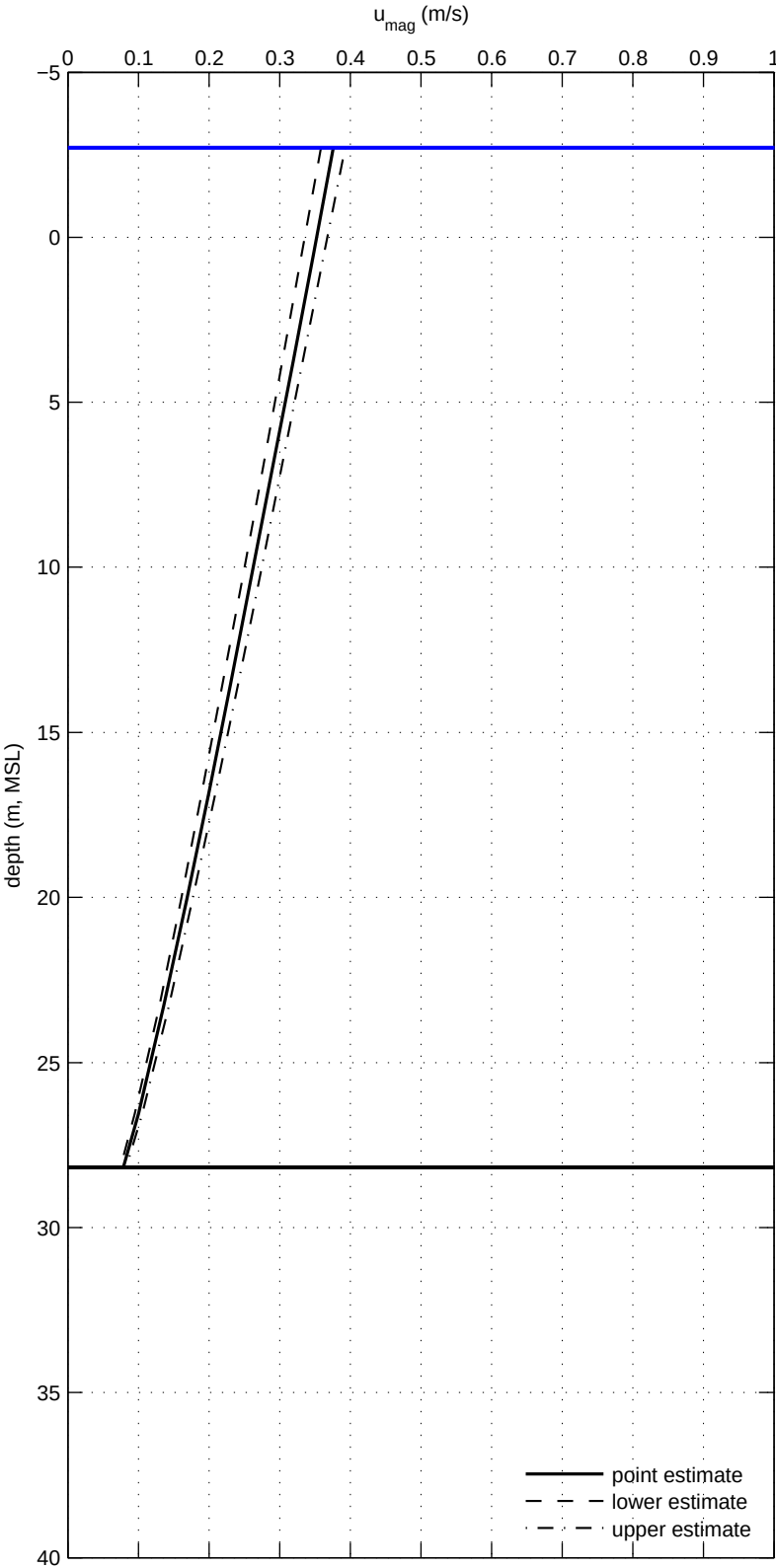
Dir sector NNE



Current profile for directional sector NNE	RP = 10 yr	U10 = 18.5 m/s
Deltares		App. C.3.038

RP = 10 yr (U10 = 17.1 m/s)

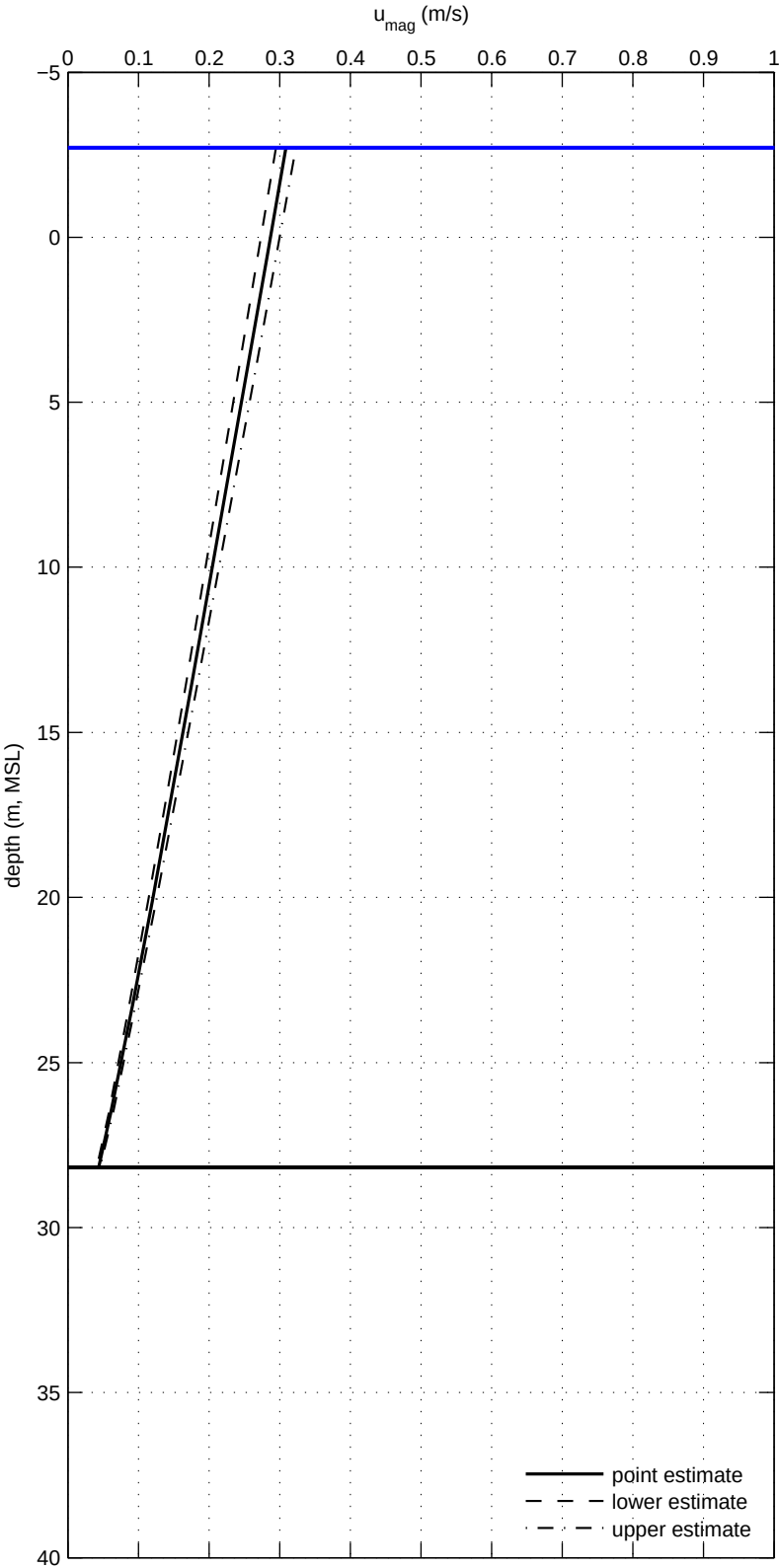
Dir sector ENE



Current profile for directional sector ENE	RP = 10 yr	U10 = 17.1 m/s
Deltares		App. C.3.039

RP = 10 yr (U10 = 16.2 m/s)

Dir sector E



Current profile for directional sector E

RP = 10 yr

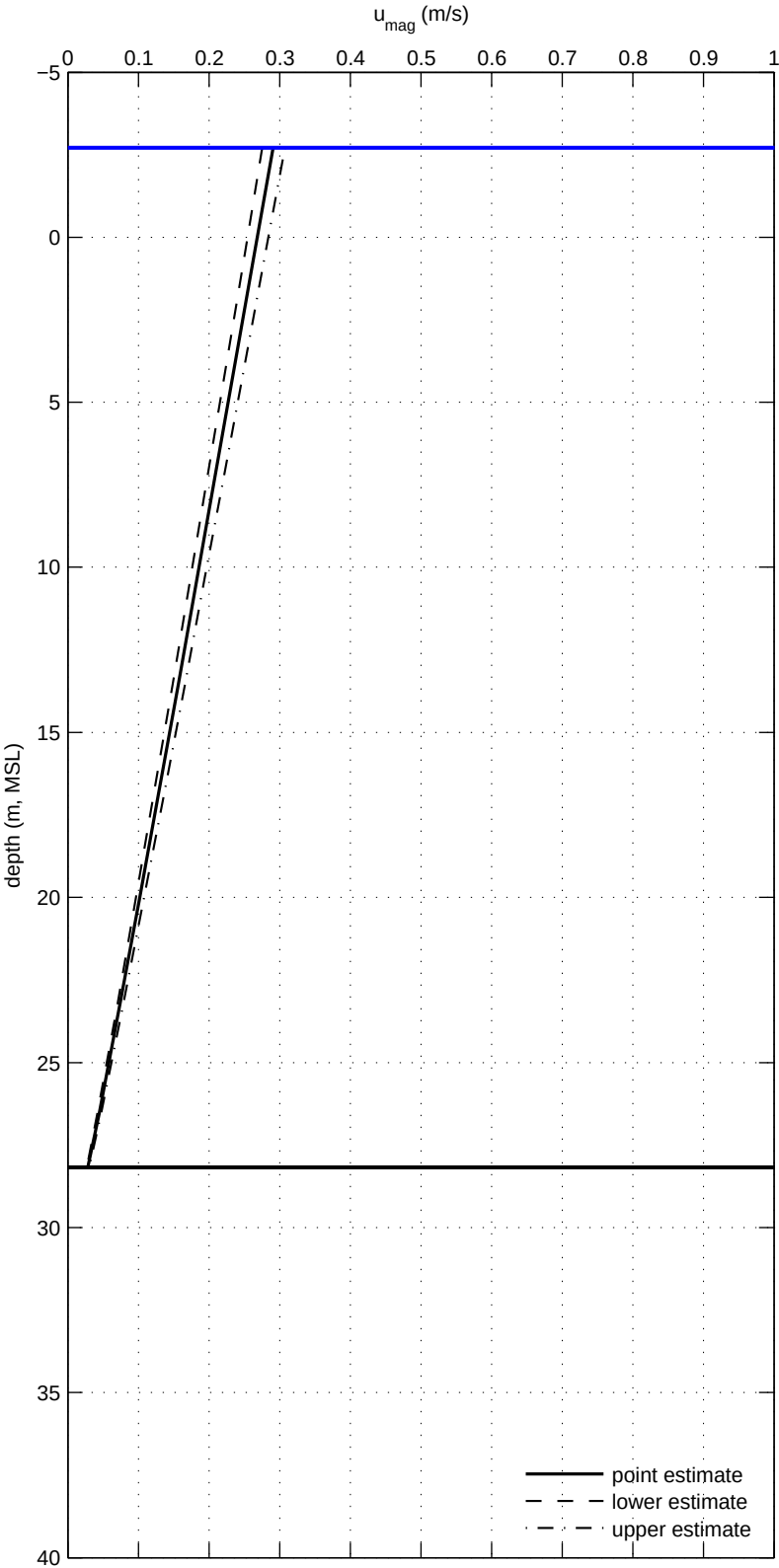
U10 = 16.2 m/s

Deltares

App. C.3.040

RP = 10 yr (U10 = 16.5 m/s)

Dir sector ESE



Current profile for directional sector ESE

RP = 10 yr

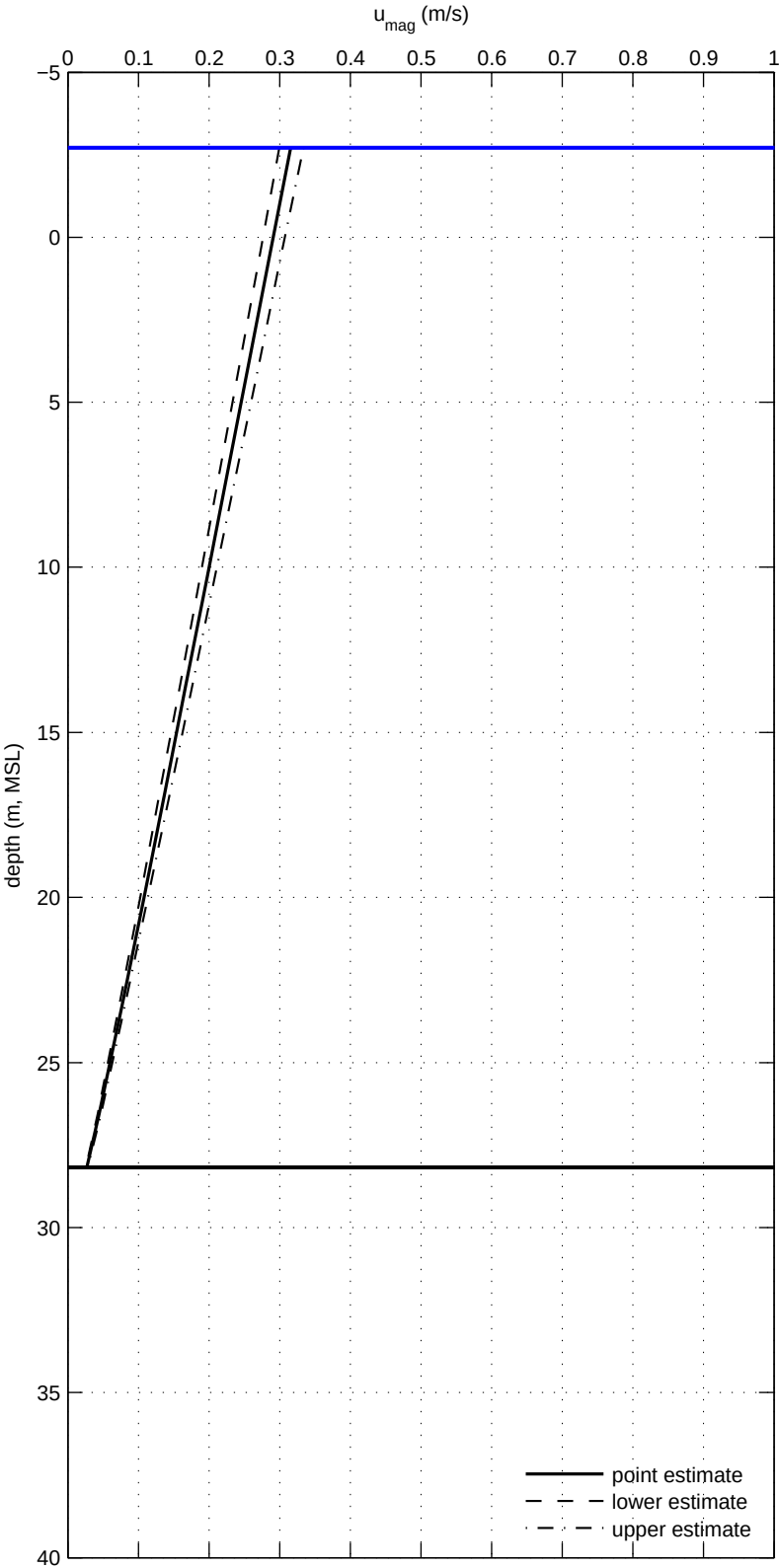
U10 = 16.5 m/s

Deltares

App. C.3.041

RP = 10 yr (U10 = 18.2 m/s)

Dir sector SSE



Current profile for directional sector SSE

RP = 10 yr

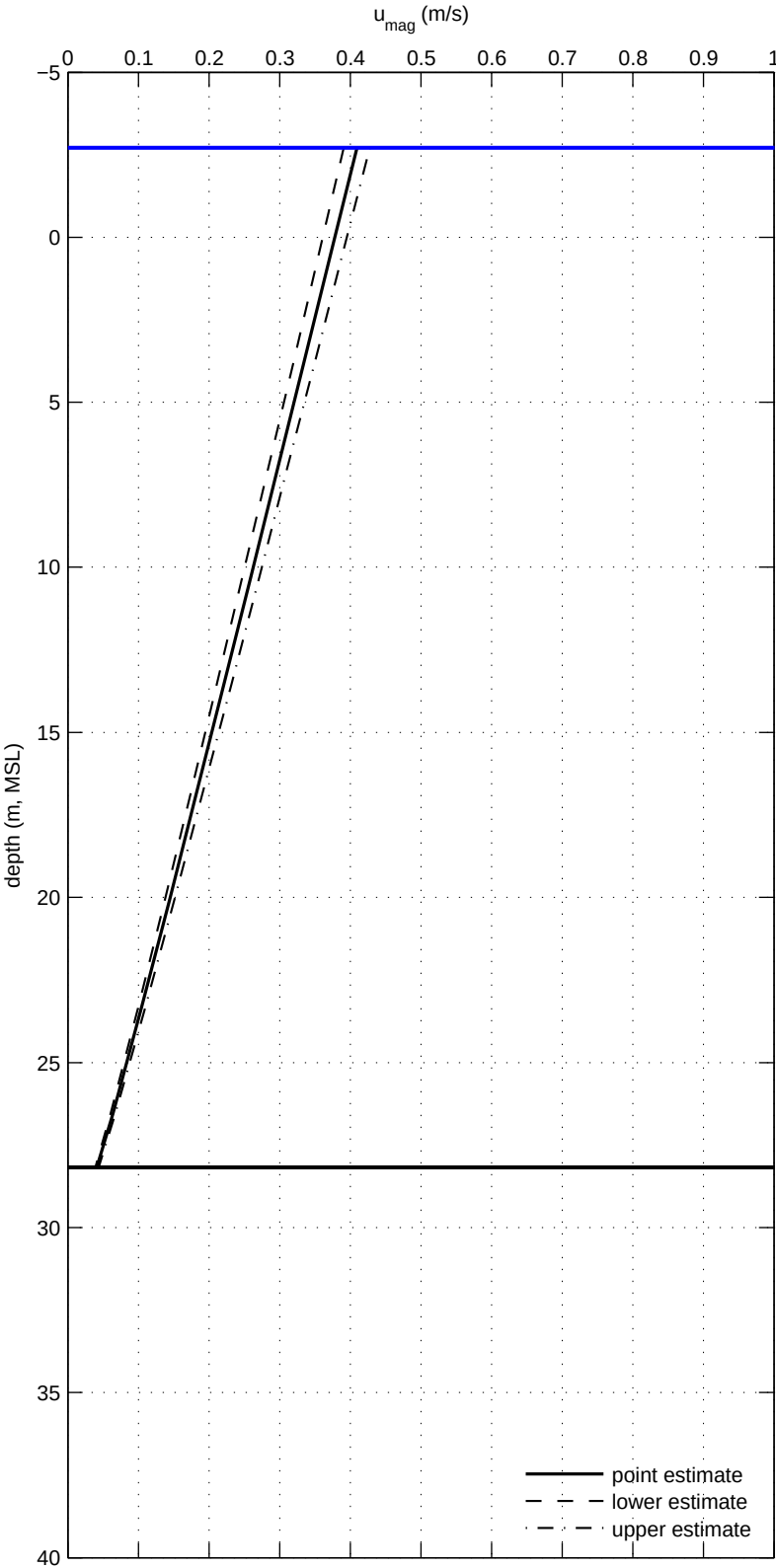
U10 = 18.2 m/s

Deltares

App. C.3.042

RP = 10 yr (U10 = 23.1 m/s)

Dir sector S



Current profile for directional sector S

RP = 10 yr

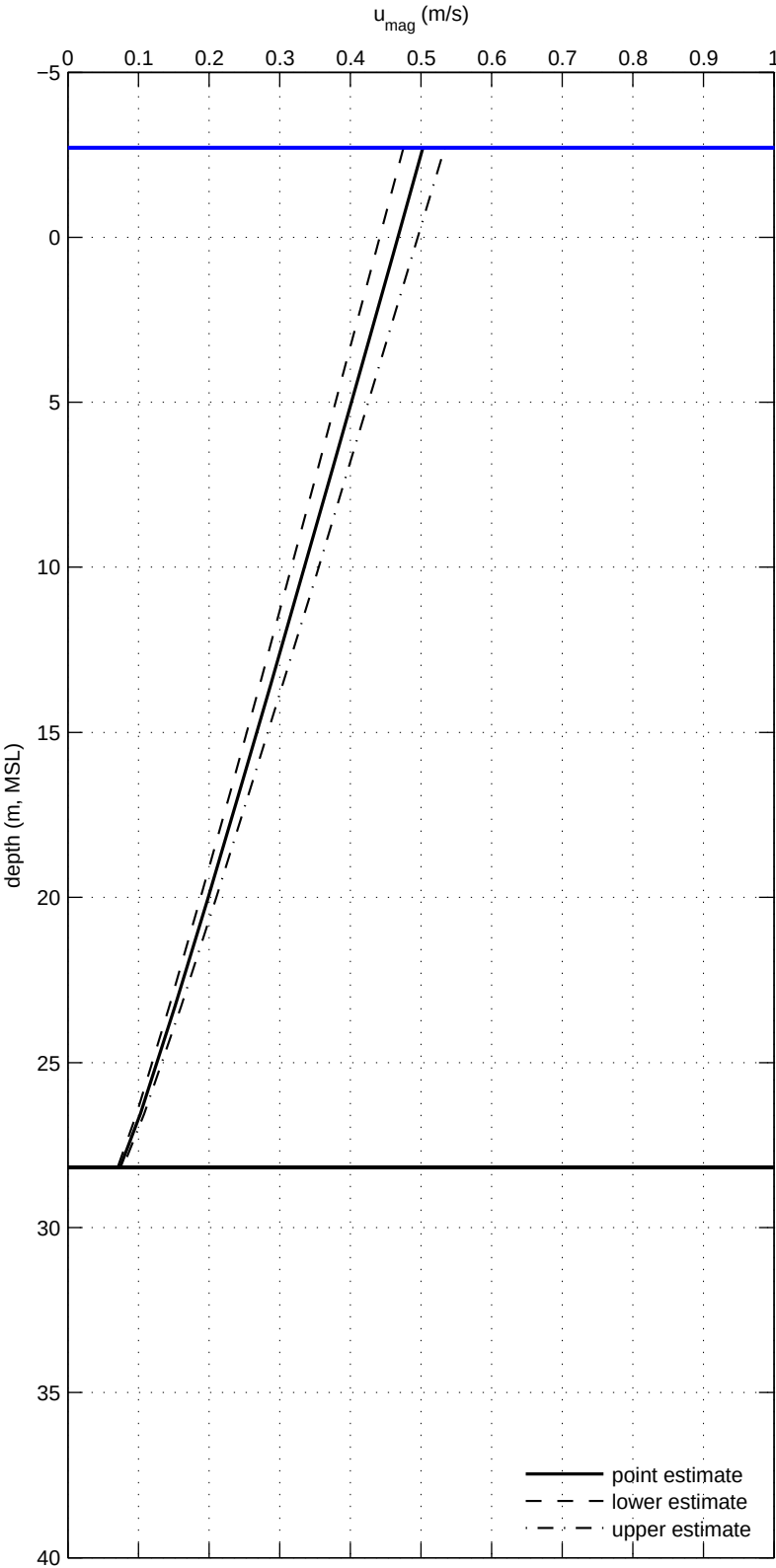
U10 = 23.1 m/s

Deltares

App. C.3.043

RP = 10 yr (U10 = 25.9 m/s)

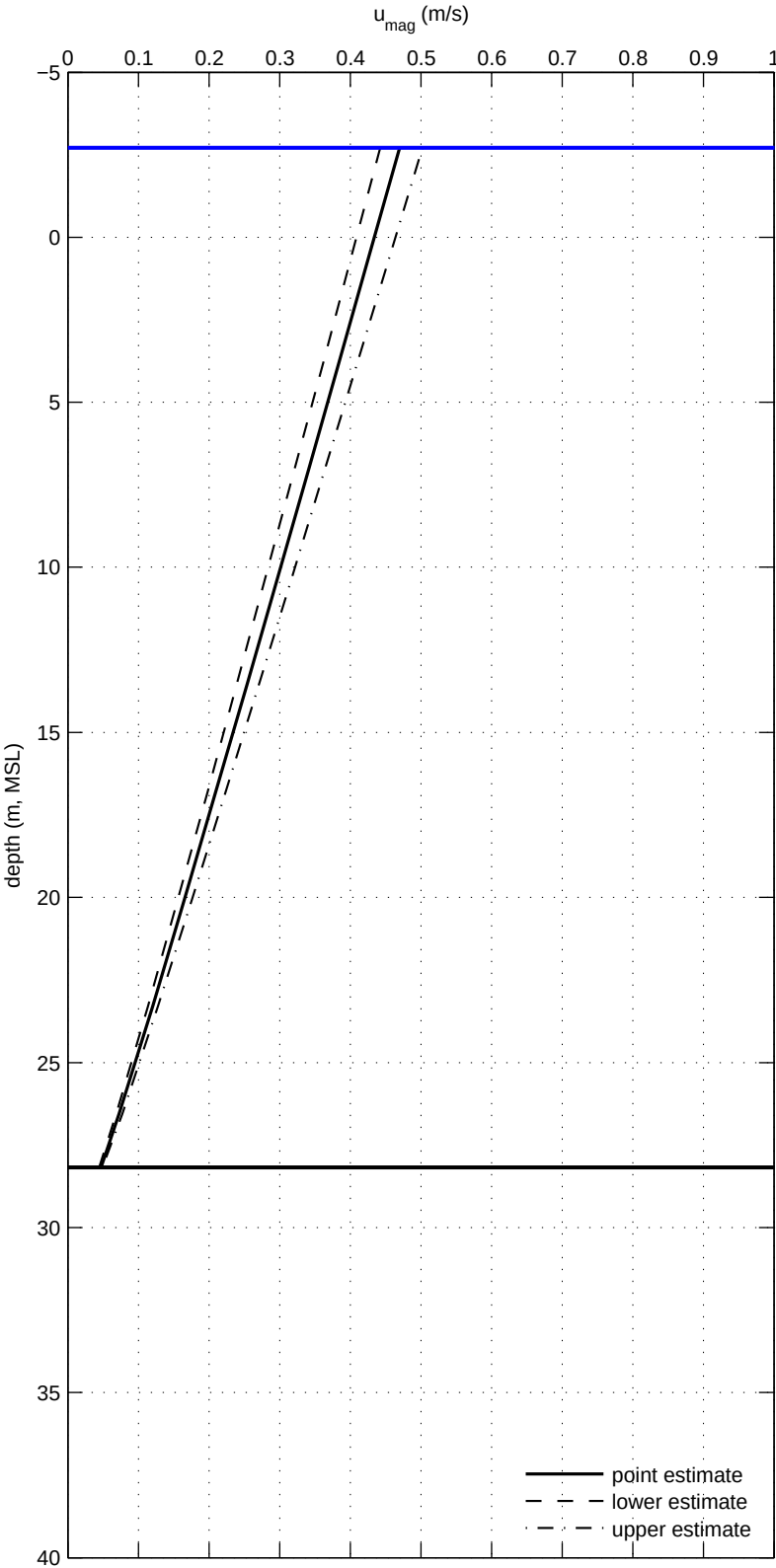
Dir sector SSW



Current profile for directional sector SSW	RP = 10 yr	U10 = 25.9 m/s
Deltares		App. C.3.044

RP = 10 yr (U10 = 26.6 m/s)

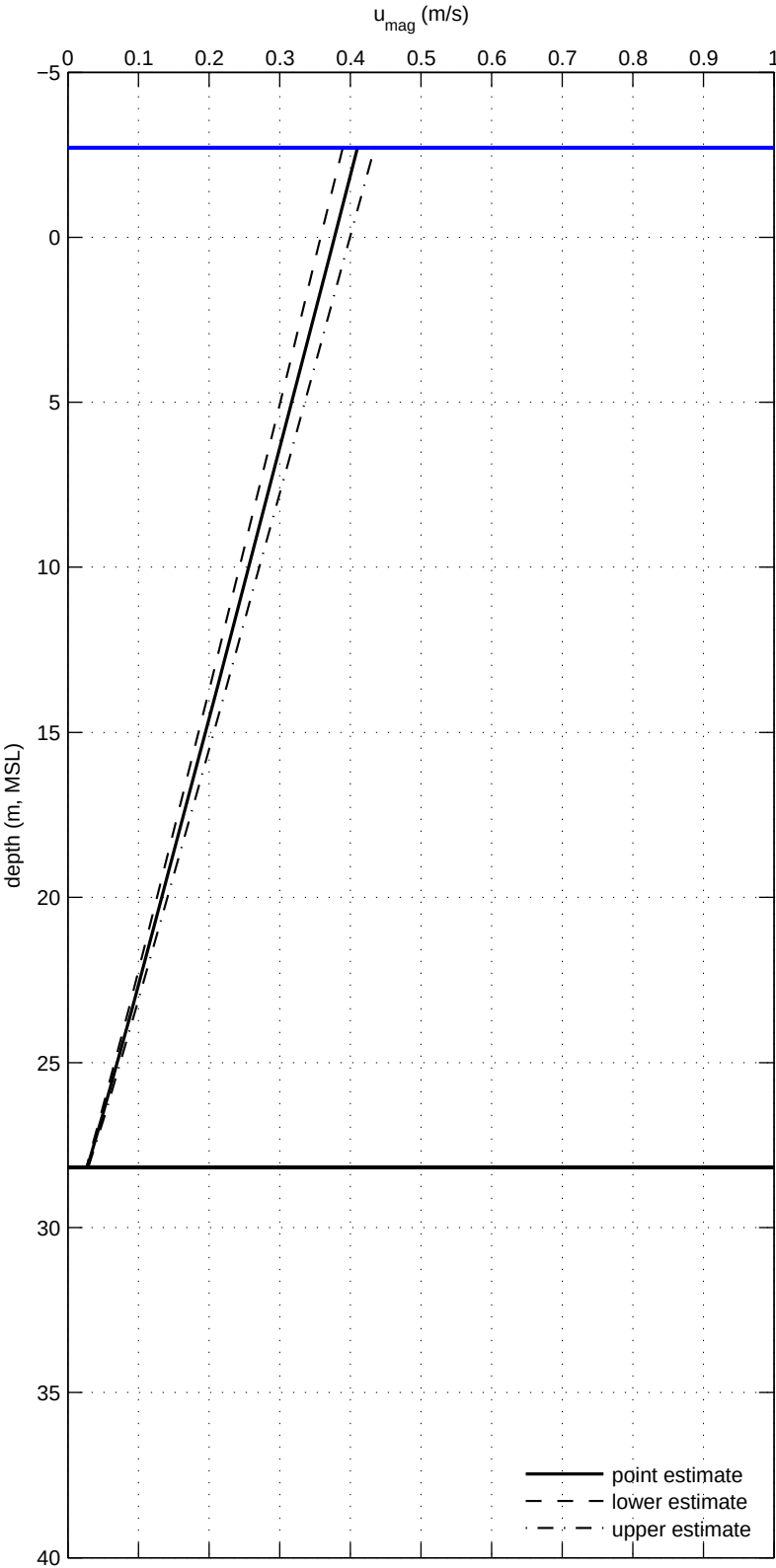
Dir sector WSW



Current profile for directional sector WSW	RP = 10 yr	U10 = 26.6 m/s
Deltares		App. C.3.045

RP = 10 yr (U10 = 24.5 m/s)

Dir sector W



Current profile for directional sector W

RP = 10 yr

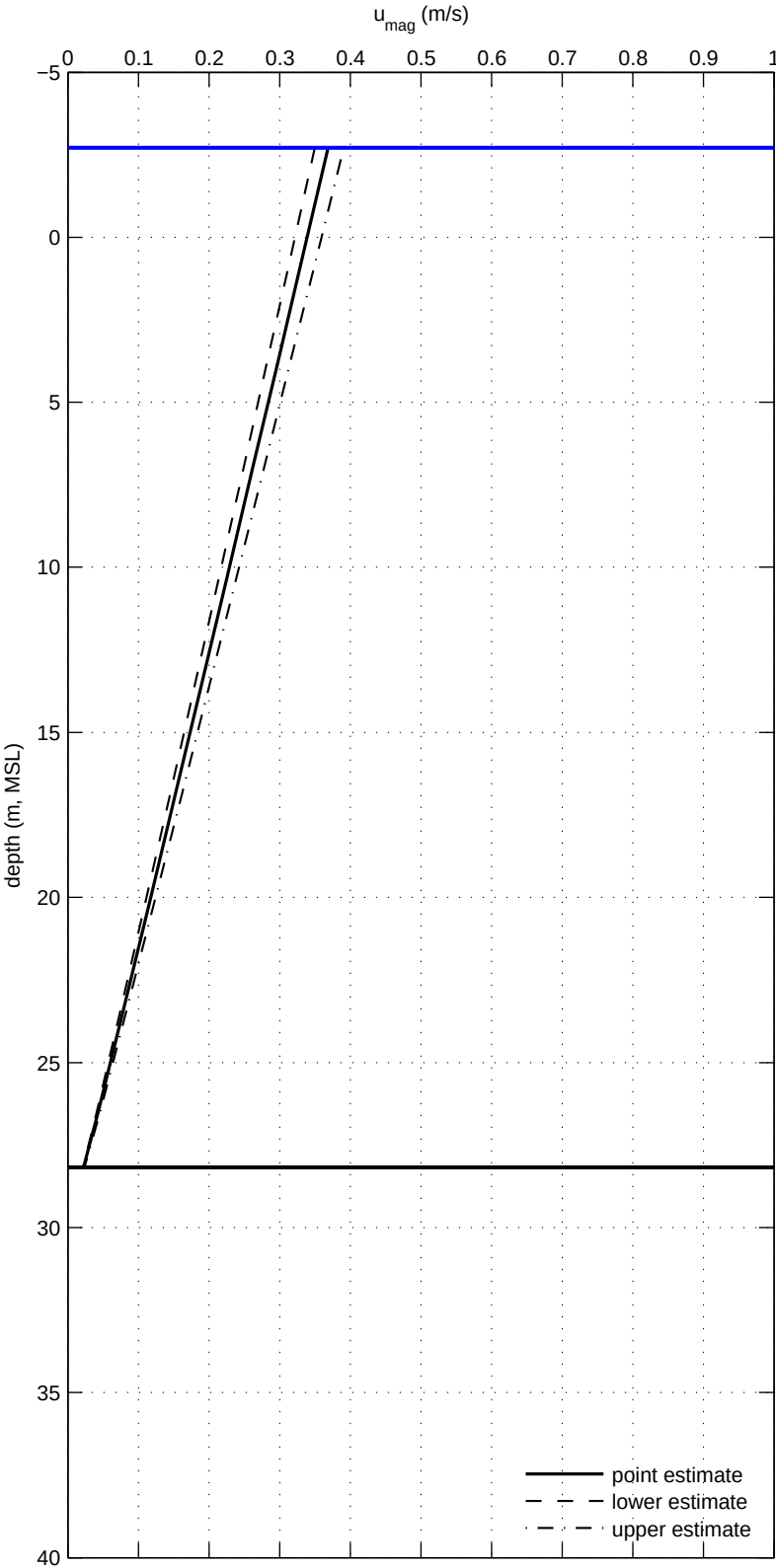
U10 = 24.5 m/s

Deltares

App. C.3.046

RP = 10 yr (U10 = 22.3 m/s)

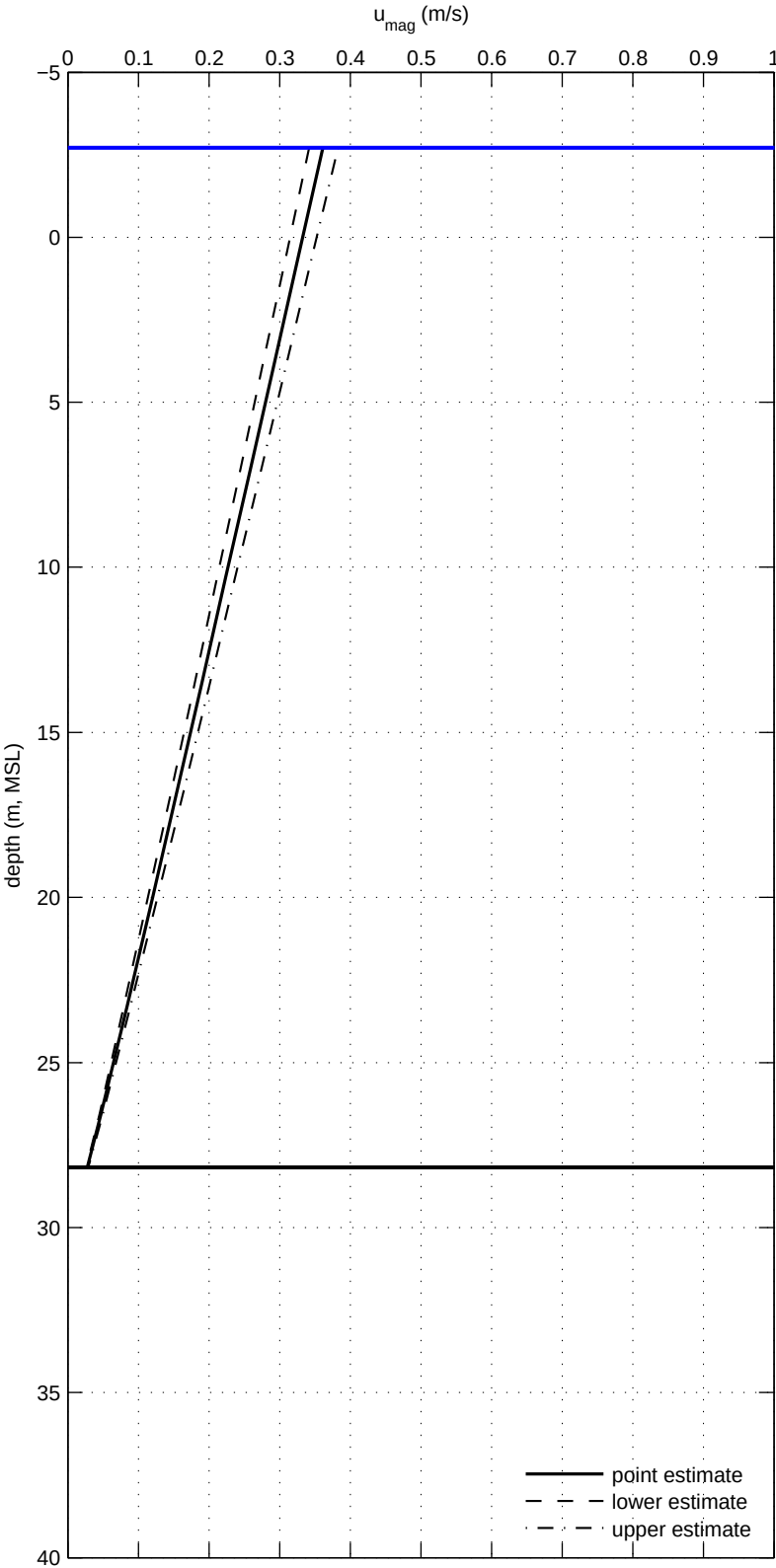
Dir sector WNW



Current profile for directional sector WNW	RP = 10 yr	U10 = 22.3 m/s
Deltares		App. C.3.047

RP = 10 yr (U10 = 21.2 m/s)

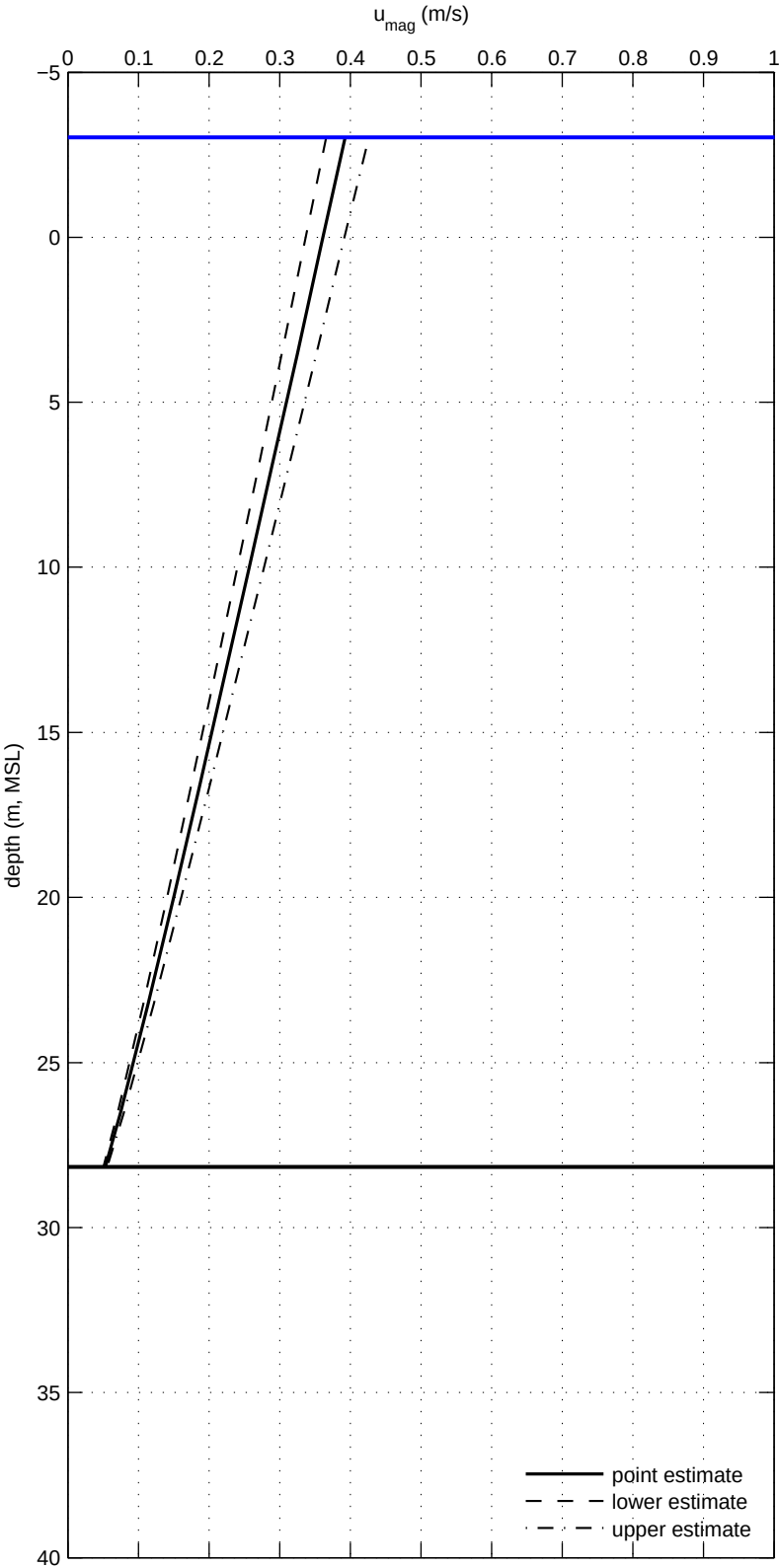
Dir sector NNW



Current profile for directional sector NNW	RP = 10 yr	U10 = 21.2 m/s
Deltares		App. C.3.048

RP = 50 yr (U10 = 20.8 m/s)

Dir sector N



Current profile for directional sector N

RP = 50 yr

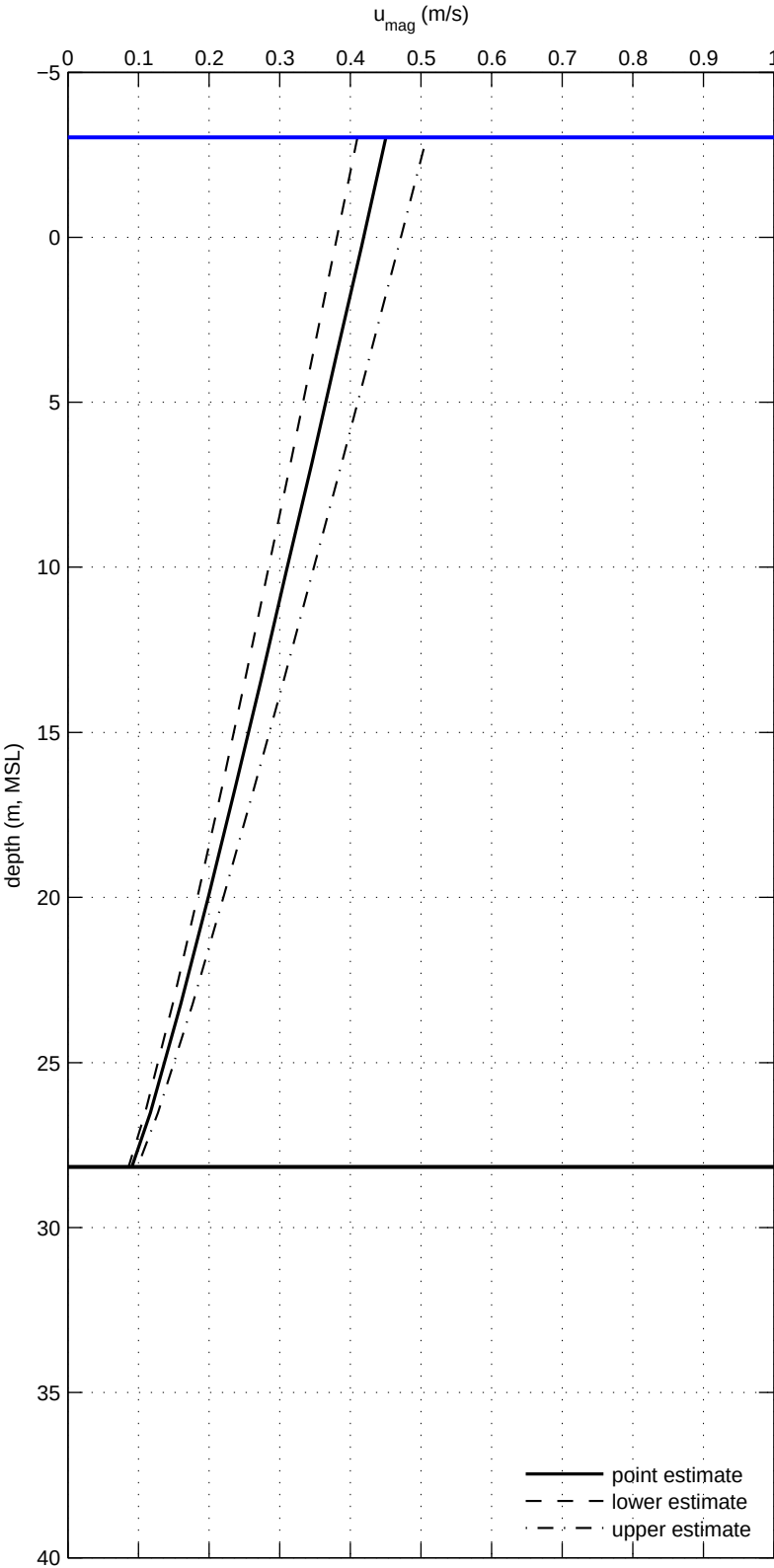
U10 = 20.8 m/s

Deltares

App. C.3.049

RP = 50 yr (U10 = 20.8 m/s)

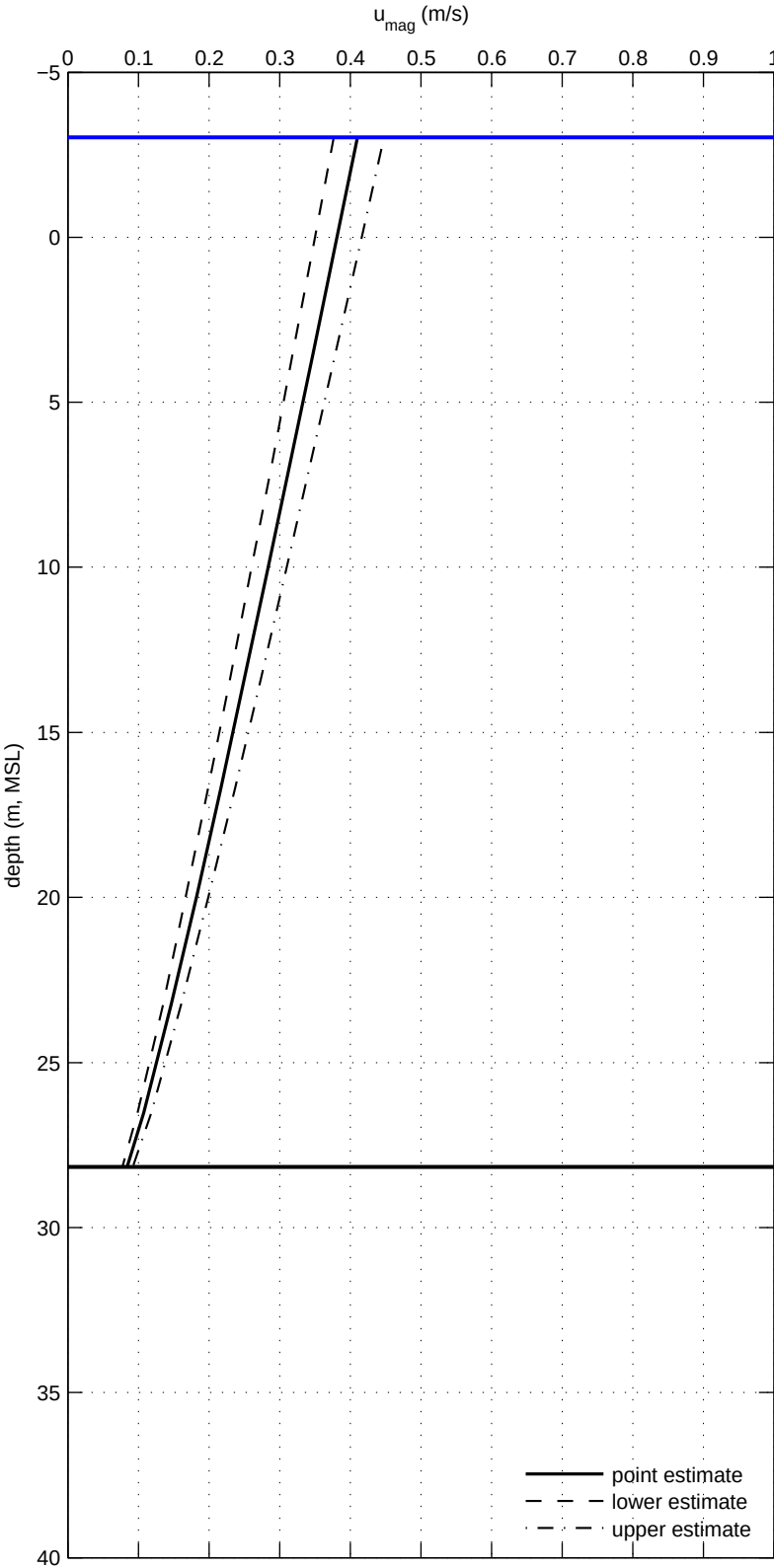
Dir sector NNE



Current profile for directional sector NNE	RP = 50 yr	U10 = 20.8 m/s
Deltares		App. C.3.050

RP = 50 yr (U10 = 18.8 m/s)

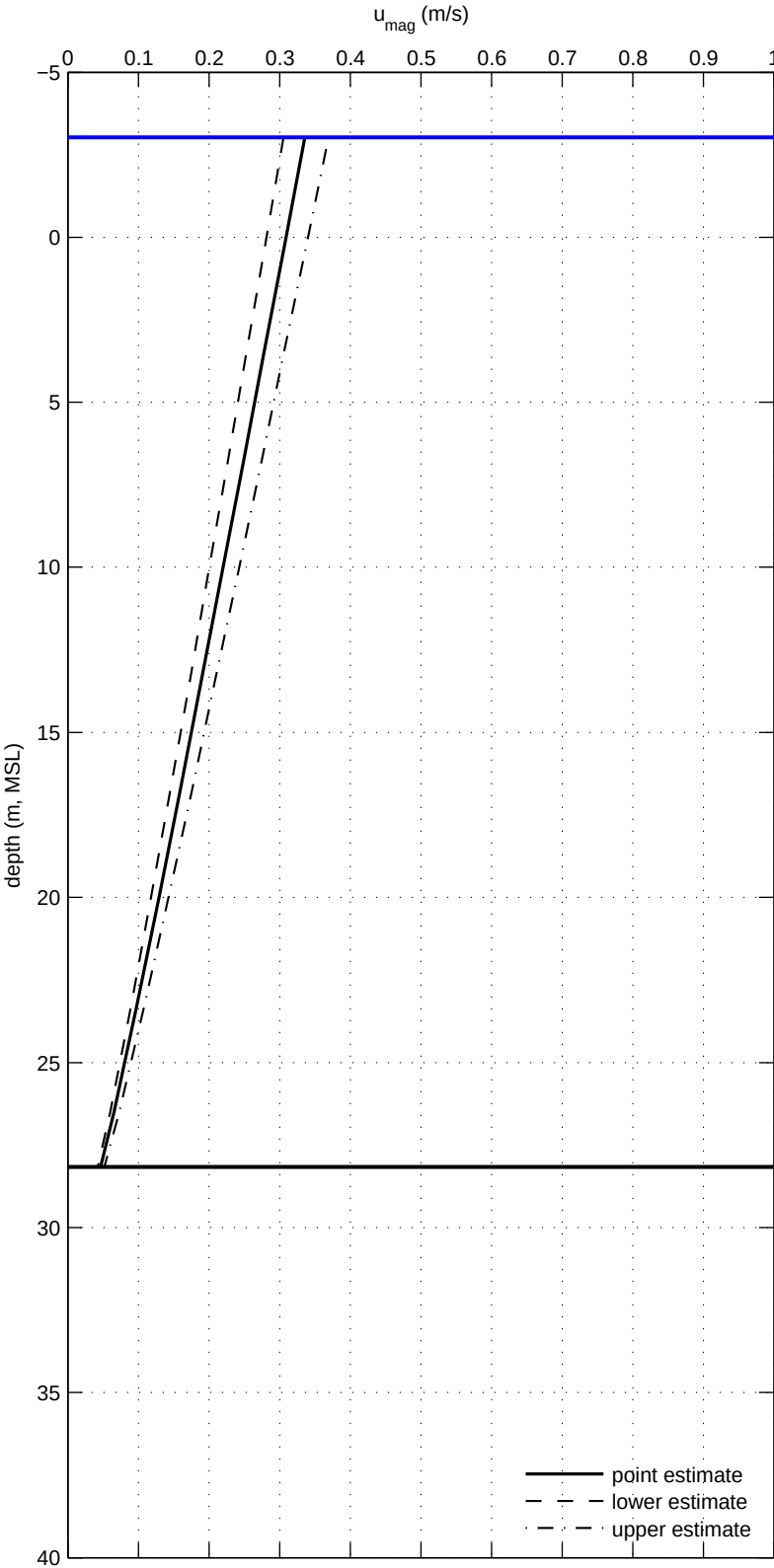
Dir sector ENE



Current profile for directional sector ENE	RP = 50 yr	U10 = 18.8 m/s
Deltares		App. C.3.051

RP = 50 yr (U10 = 17.6 m/s)

Dir sector E



Current profile for directional sector E

RP = 50 yr

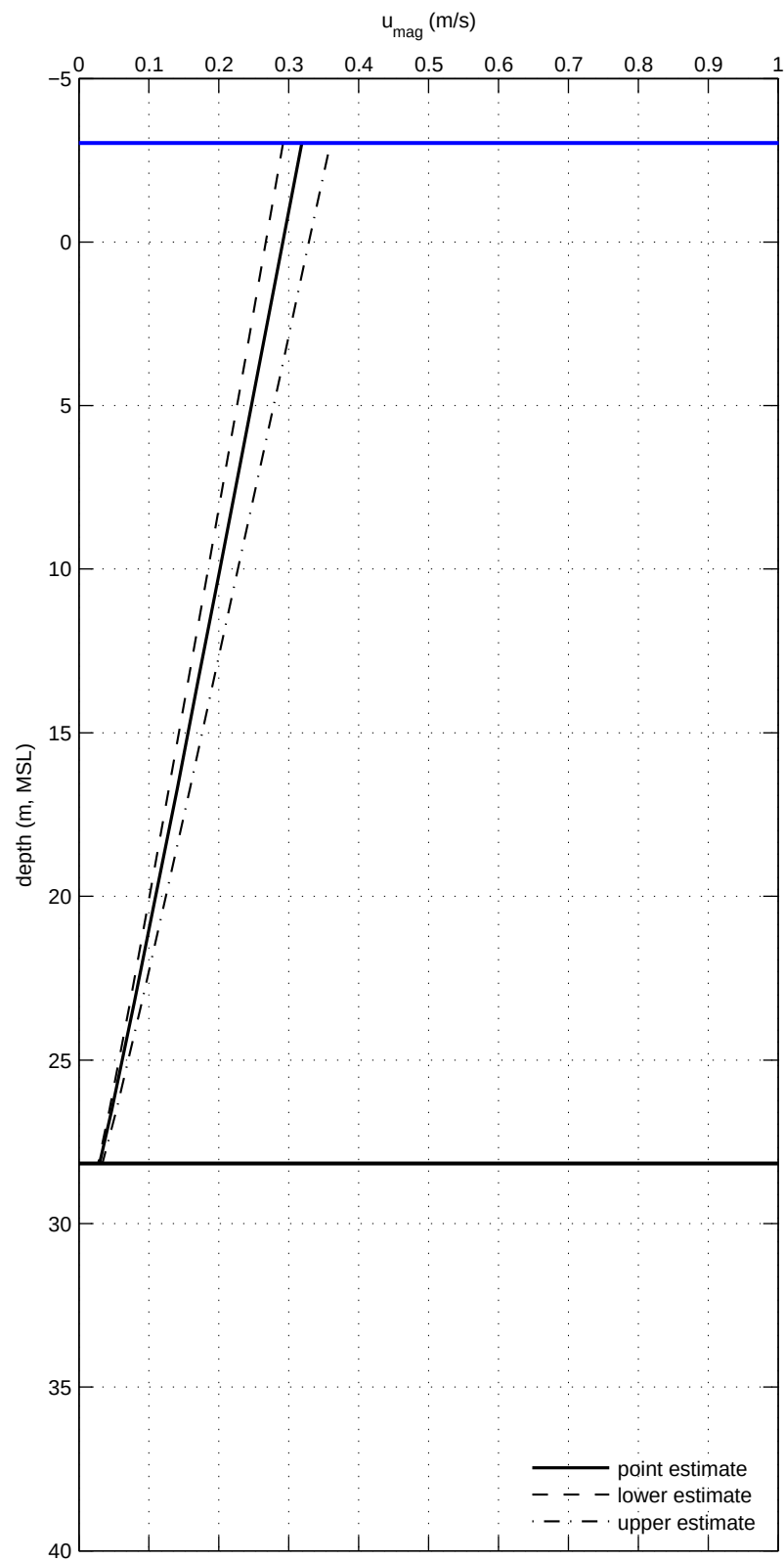
U10 = 17.6 m/s

Deltares

App. C.3.052

RP = 50 yr (U10 = 18.2 m/s)

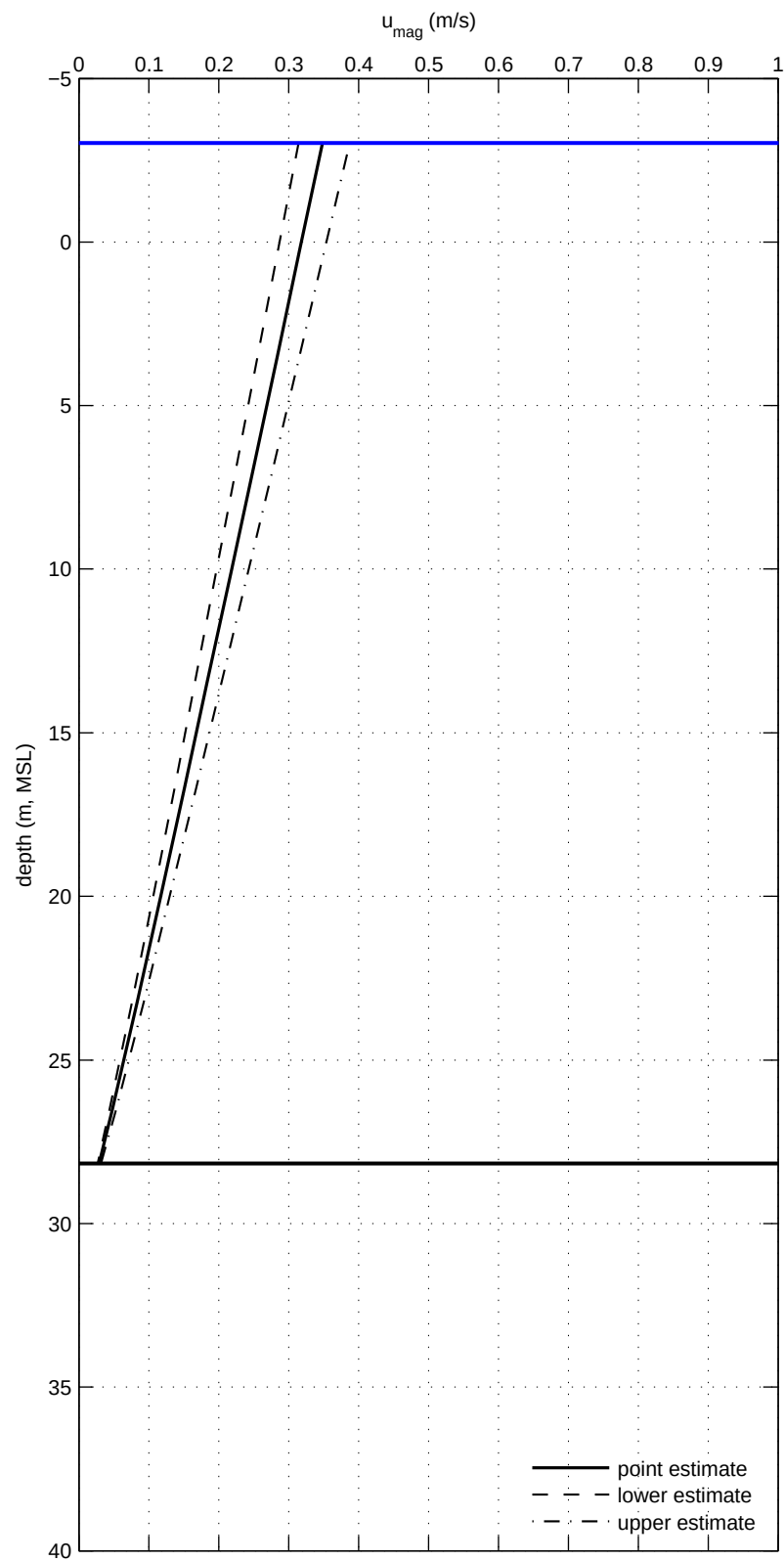
Dir sector ESE



Current profile for directional sector ESE	RP = 50 yr	U10 = 18.2 m/s
Deltares		App. C.3.053

RP = 50 yr (U10 = 20.3 m/s)

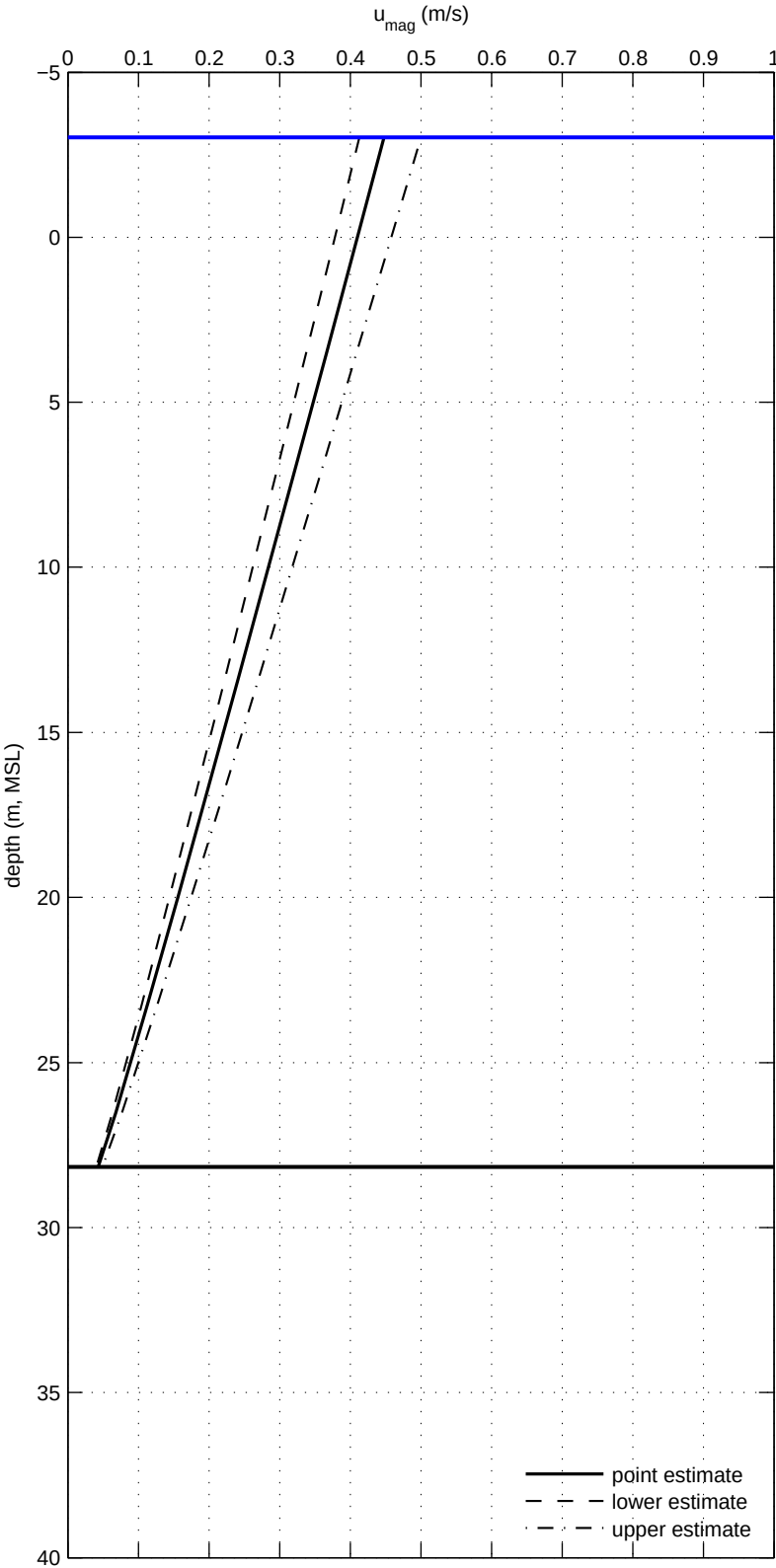
Dir sector SSE



Current profile for directional sector SSE	RP = 50 yr	U10 = 20.3 m/s
Deltares		App. C.3.054

RP = 50 yr (U10 = 25.4 m/s)

Dir sector S



Current profile for directional sector S

RP = 50 yr

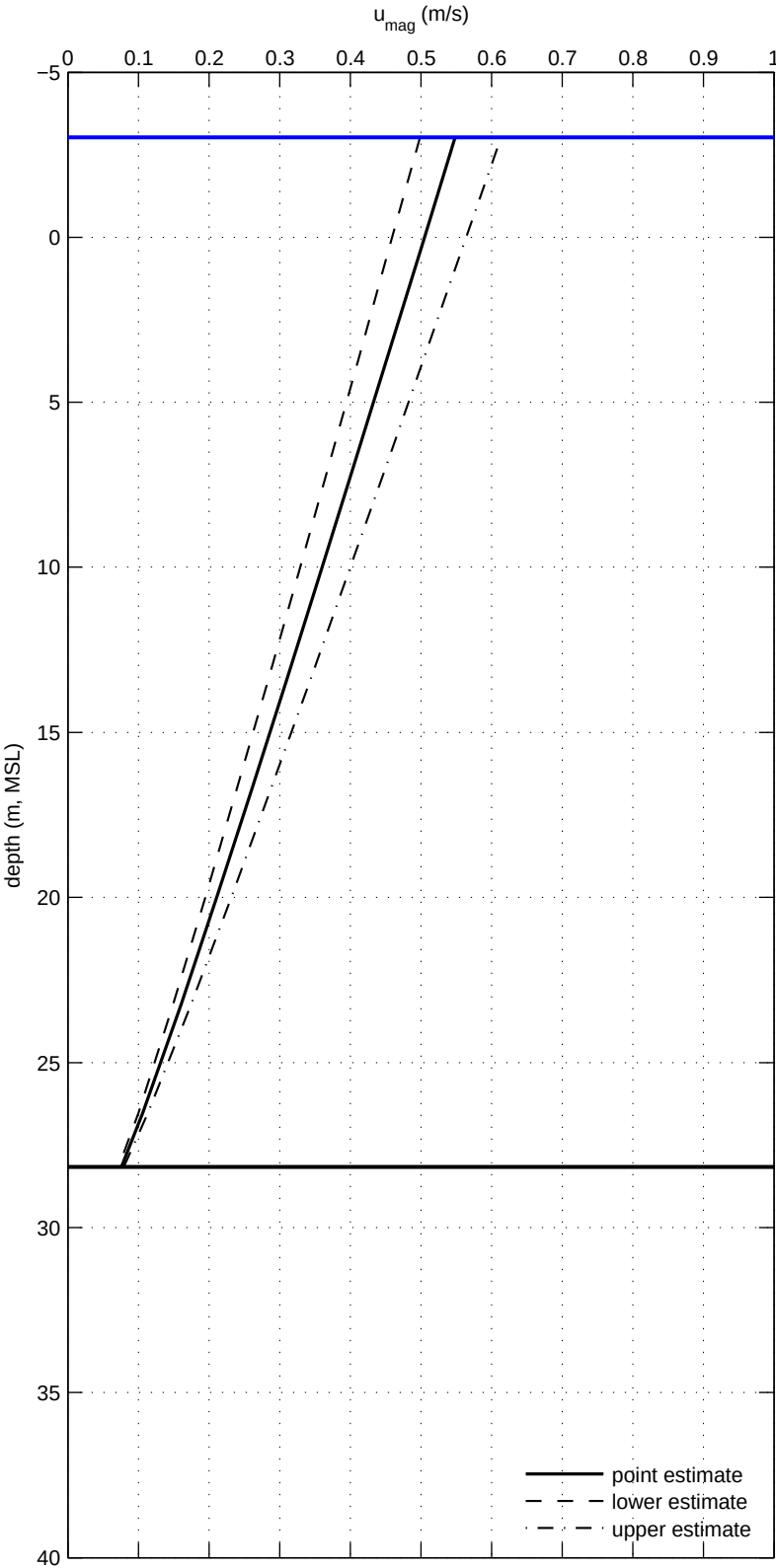
U10 = 25.4 m/s

Deltares

App. C.3.055

RP = 50 yr (U10 = 28.8 m/s)

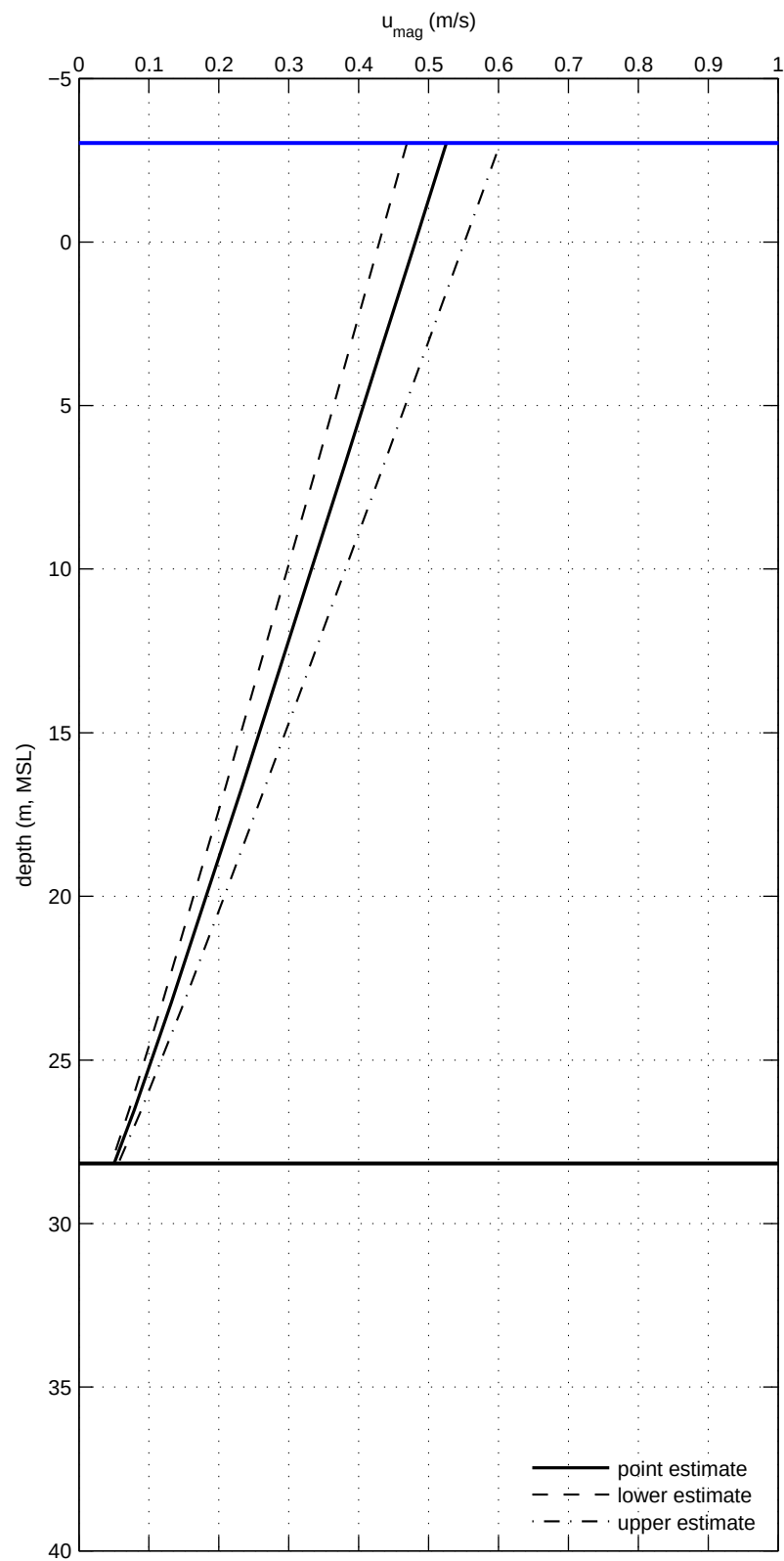
Dir sector SSW



Current profile for directional sector SSW	RP = 50 yr	U10 = 28.8 m/s
Deltares		App. C.3.056

RP = 50 yr (U10 = 29.9 m/s)

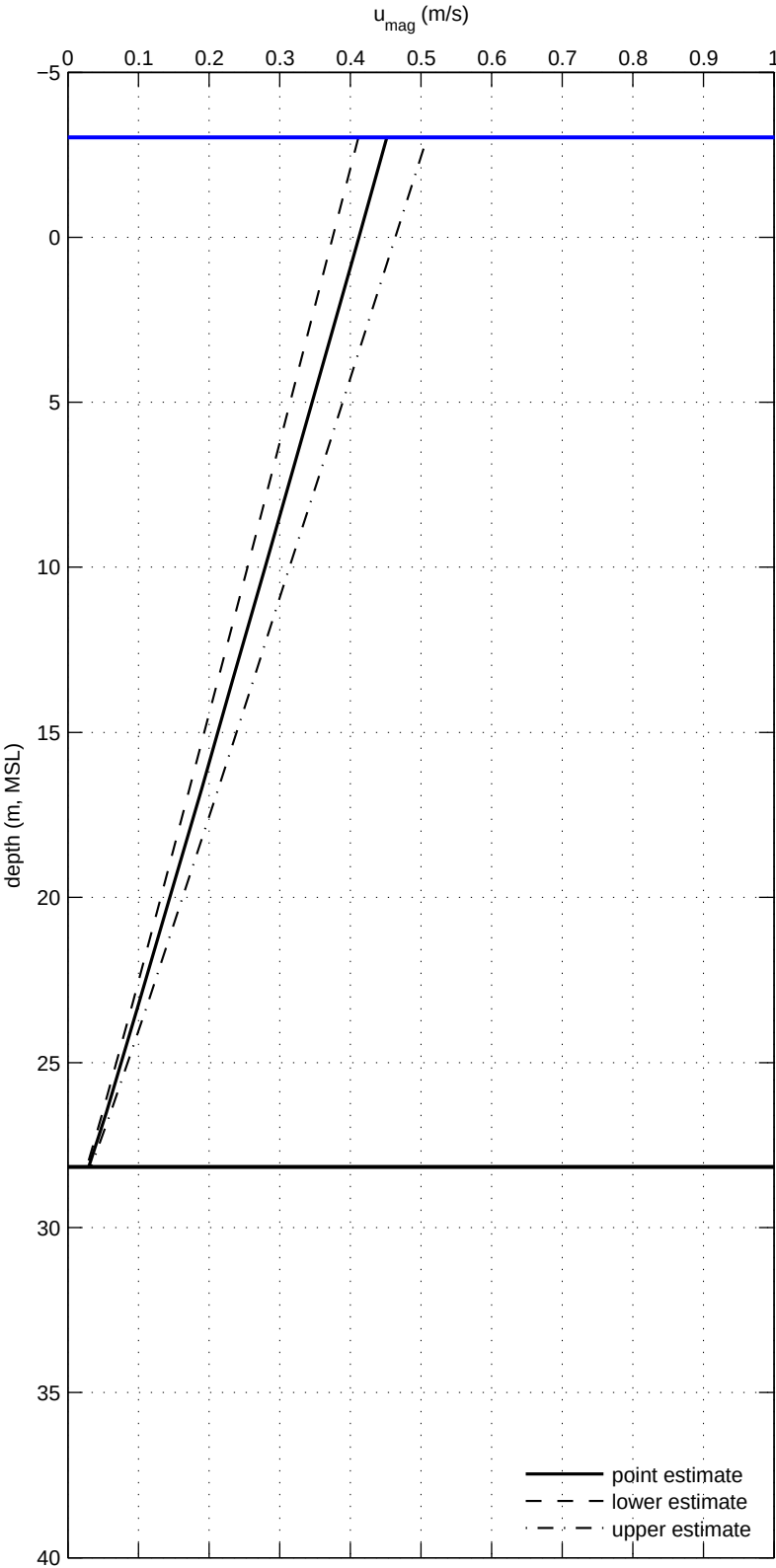
Dir sector WSW



Current profile for directional sector WSW	RP = 50 yr	U10 = 29.9 m/s
Deltares		App. C.3.057

RP = 50 yr (U10 = 27.1 m/s)

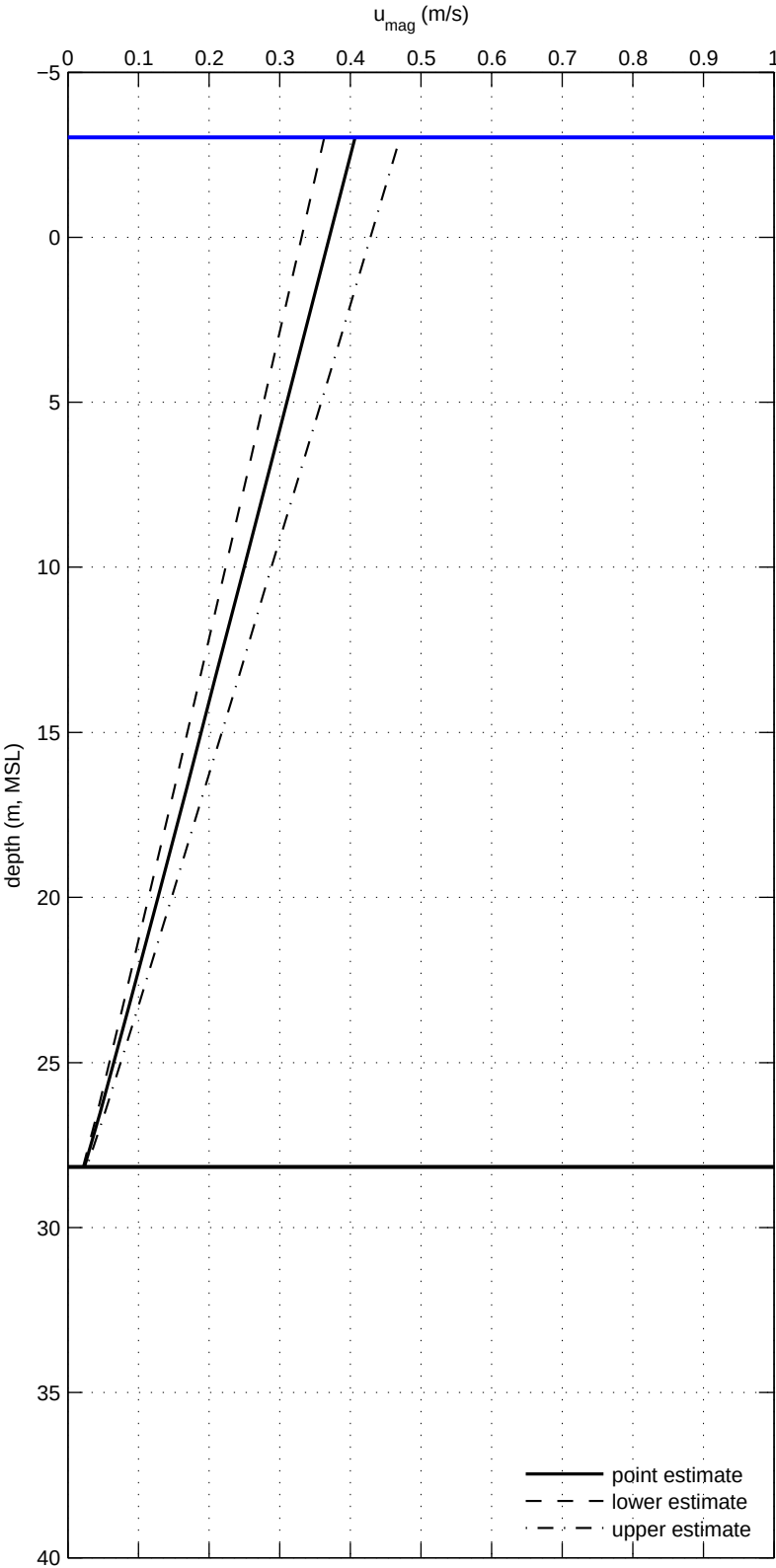
Dir sector W



Current profile for directional sector W	RP = 50 yr	U10 = 27.1 m/s
Deltares		App. C.3.058

RP = 50 yr (U10 = 24.7 m/s)

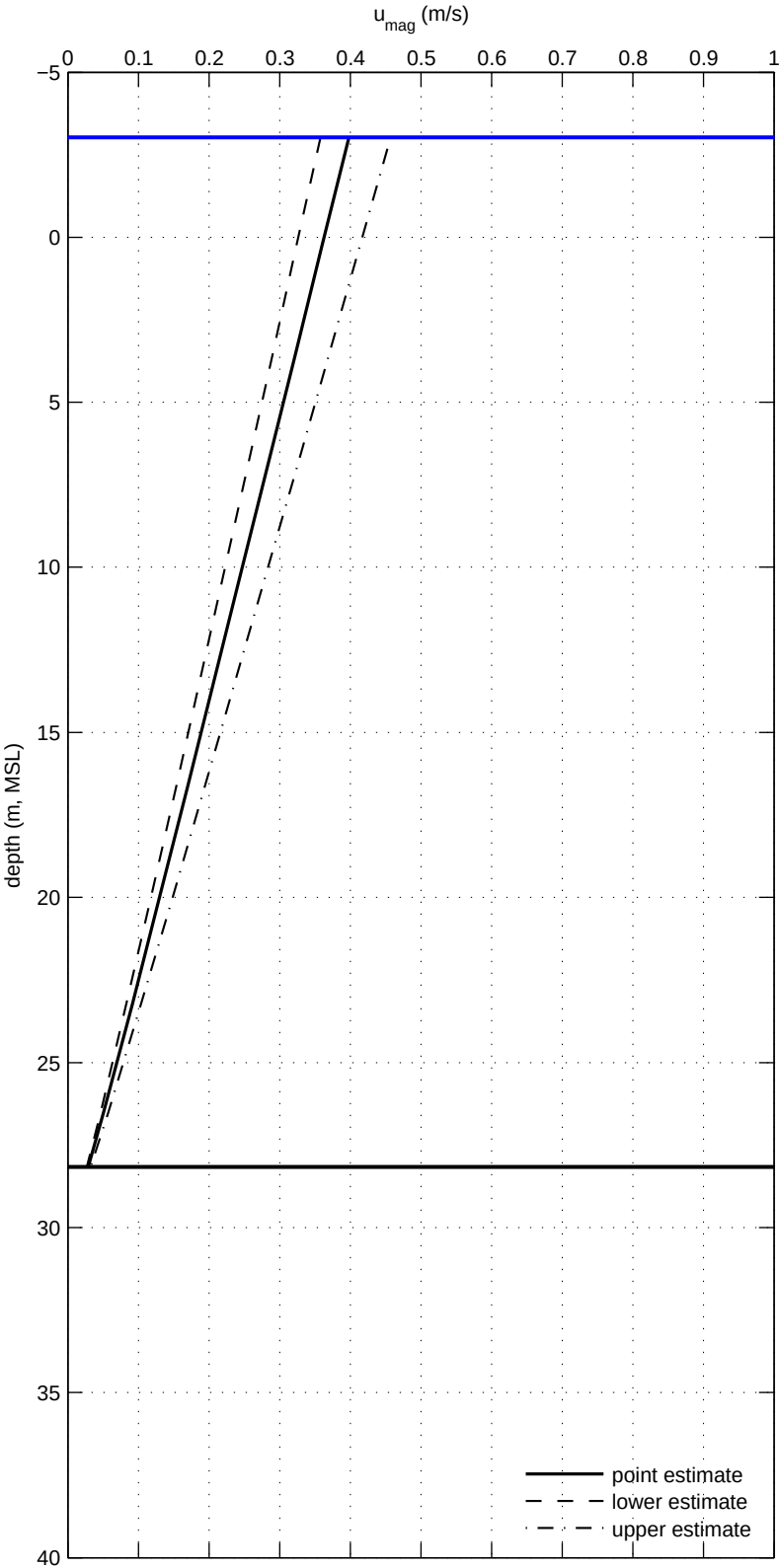
Dir sector WNW



Current profile for directional sector WNW	RP = 50 yr	U10 = 24.7 m/s
Deltares		App. C.3.059

RP = 50 yr (U10 = 23.6 m/s)

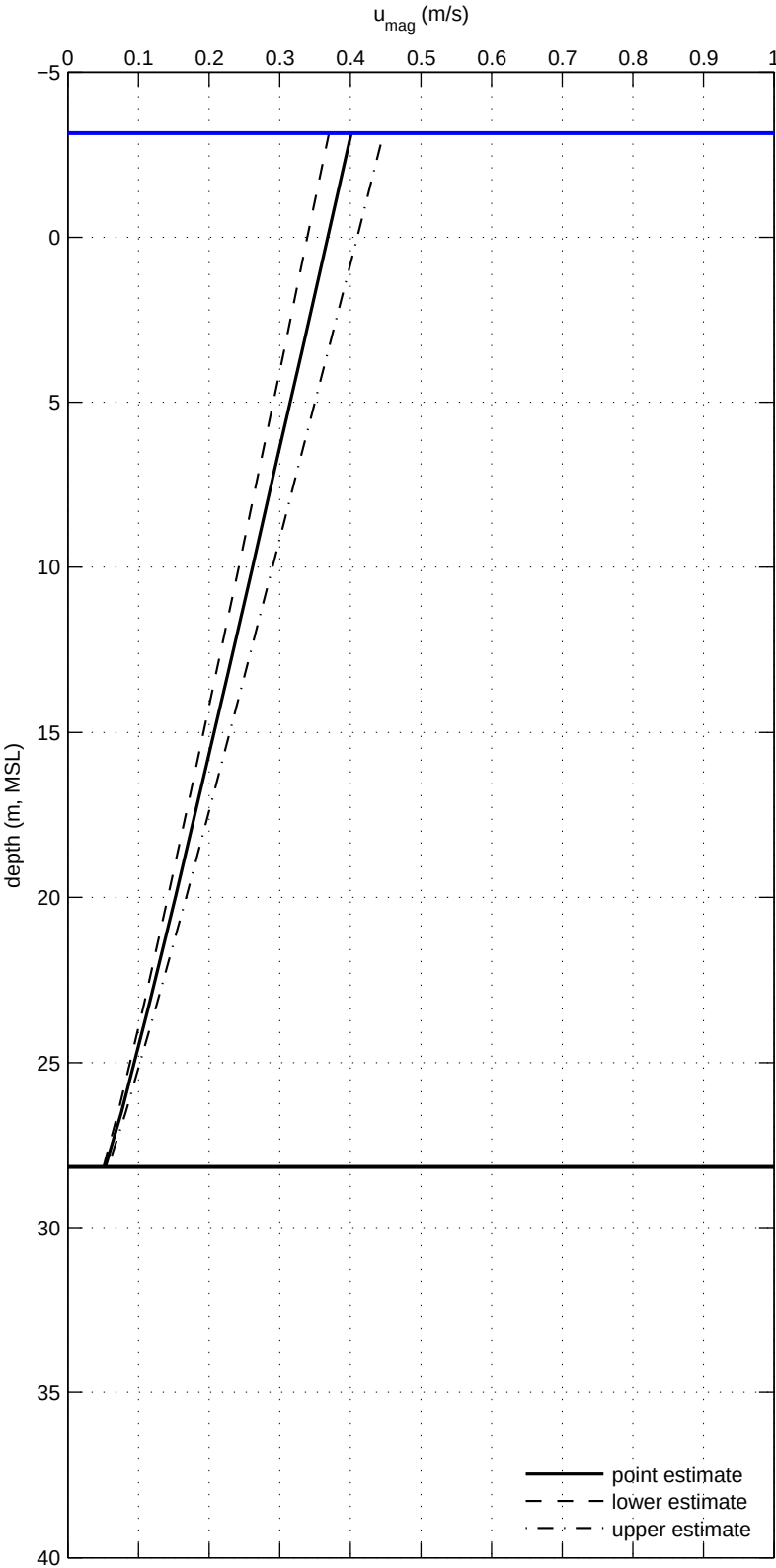
Dir sector NNW



Current profile for directional sector NNW	RP = 50 yr	U10 = 23.6 m/s
Deltares		App. C.3.060

RP = 100 yr (U10 = 21.3 m/s)

Dir sector N



Current profile for directional sector N

RP = 100 yr

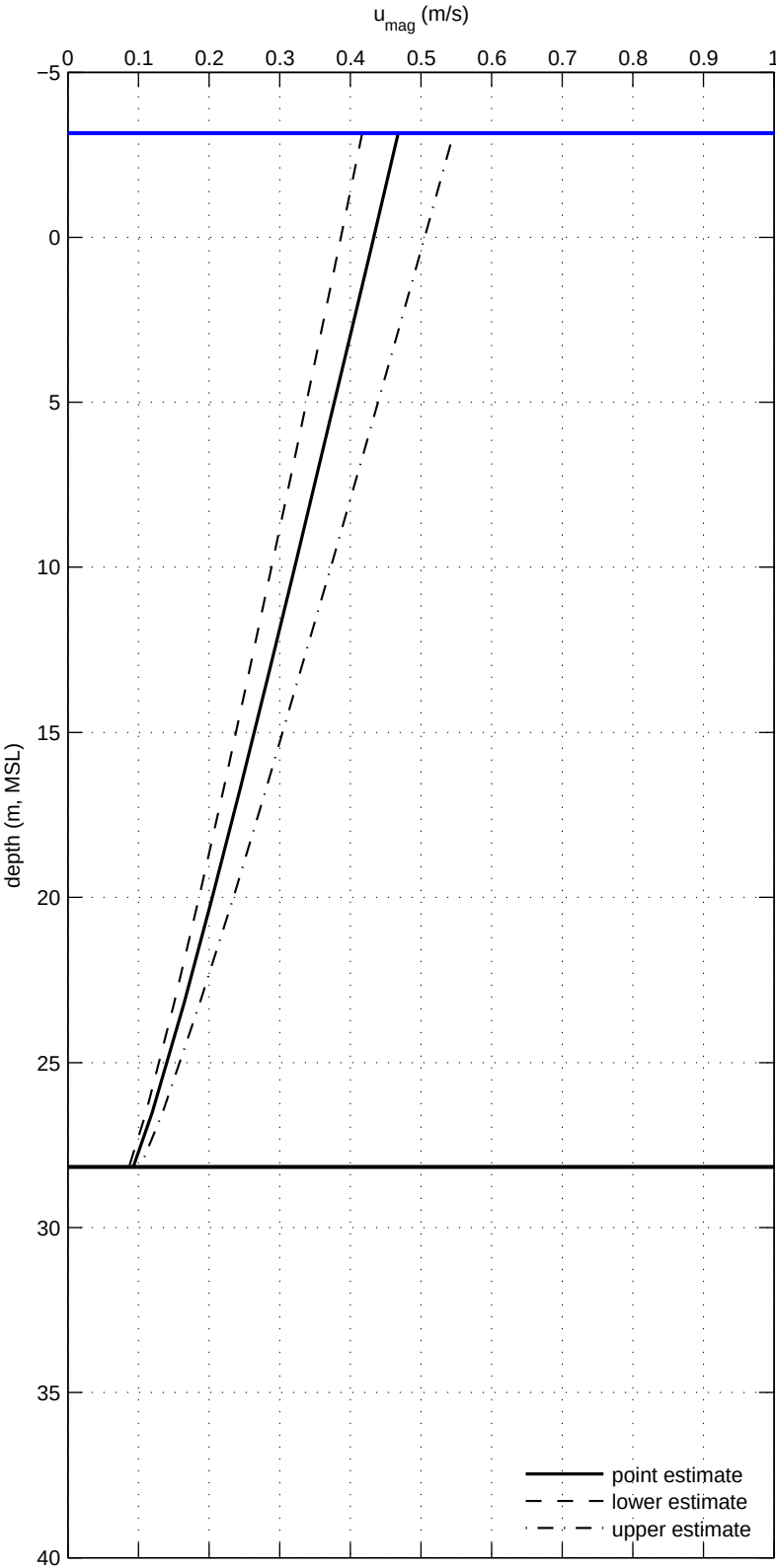
U10 = 21.3 m/s

Deltares

App. C.3.061

RP = 100 yr (U10 = 21.7 m/s)

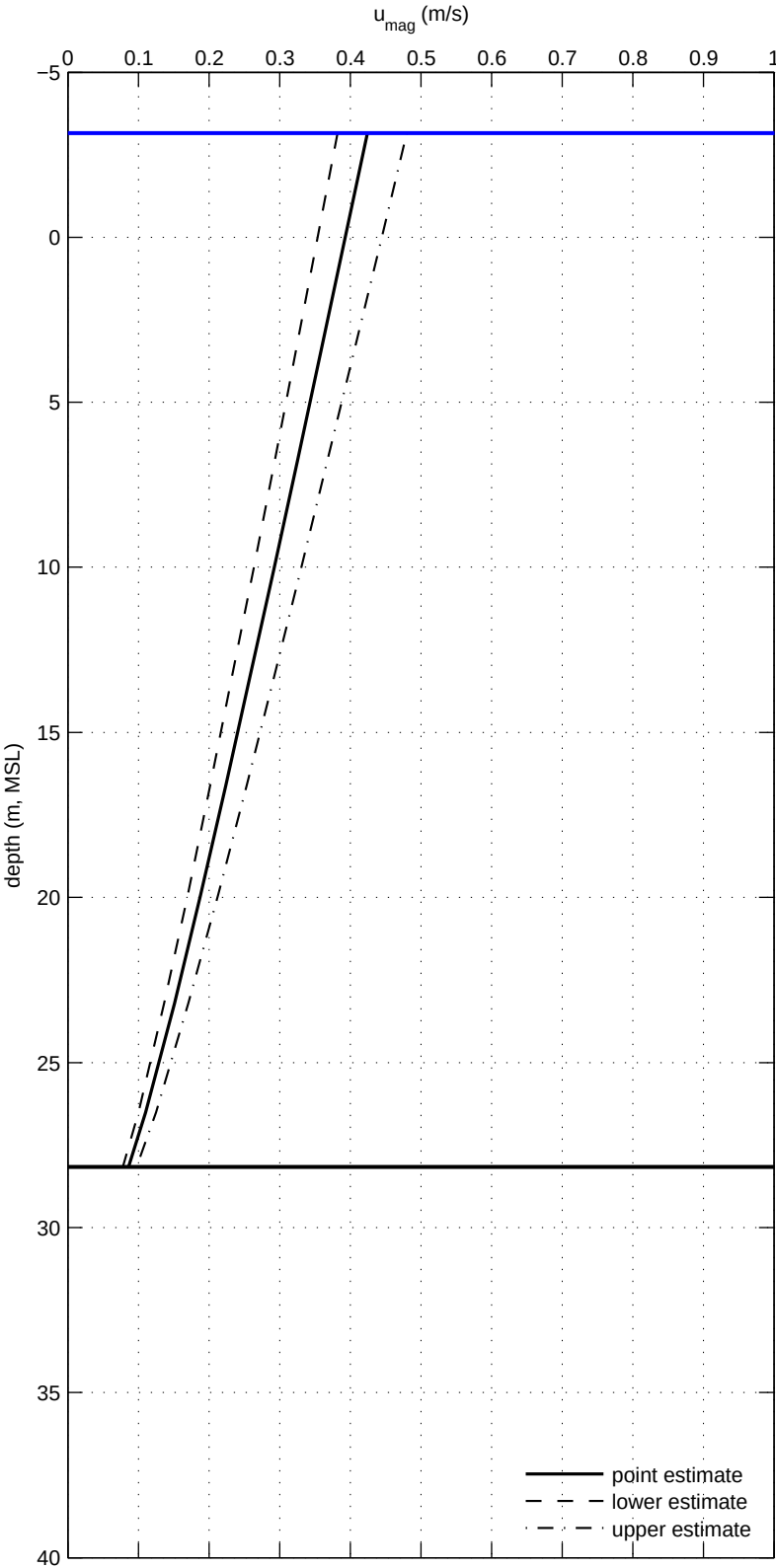
Dir sector NNE



Current profile for directional sector NNE	RP = 100 yr	U10 = 21.7 m/s
Deltares		App. C.3.062

RP = 100 yr (U10 = 19.5 m/s)

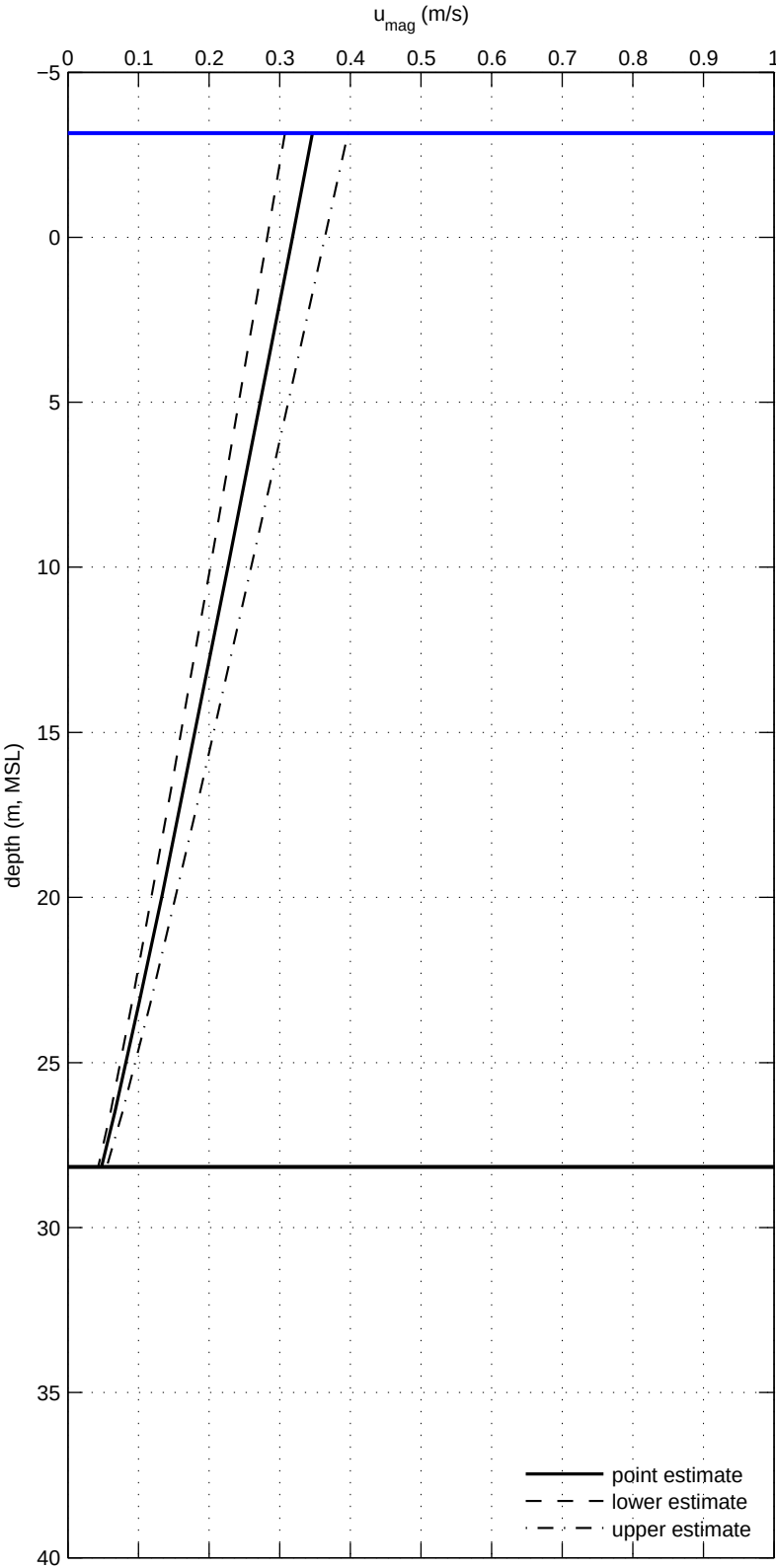
Dir sector ENE



Current profile for directional sector ENE	RP = 100 yr	U10 = 19.5 m/s
Deltares		App. C.3.063

RP = 100 yr (U10 = 18.2 m/s)

Dir sector E



Current profile for directional sector E

RP = 100 yr

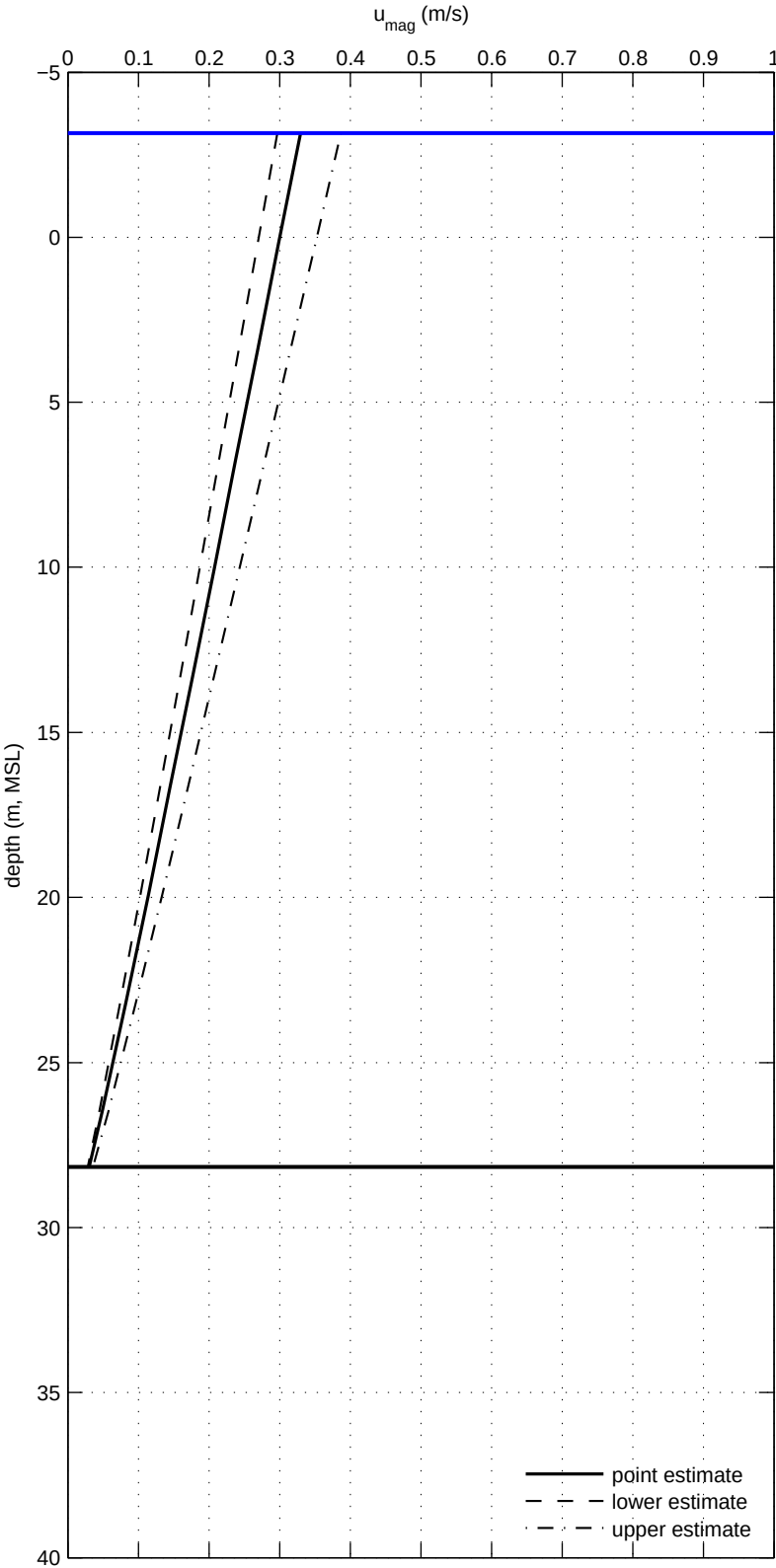
U10 = 18.2 m/s

Deltares

App. C.3.064

RP = 100 yr (U10 = 18.8 m/s)

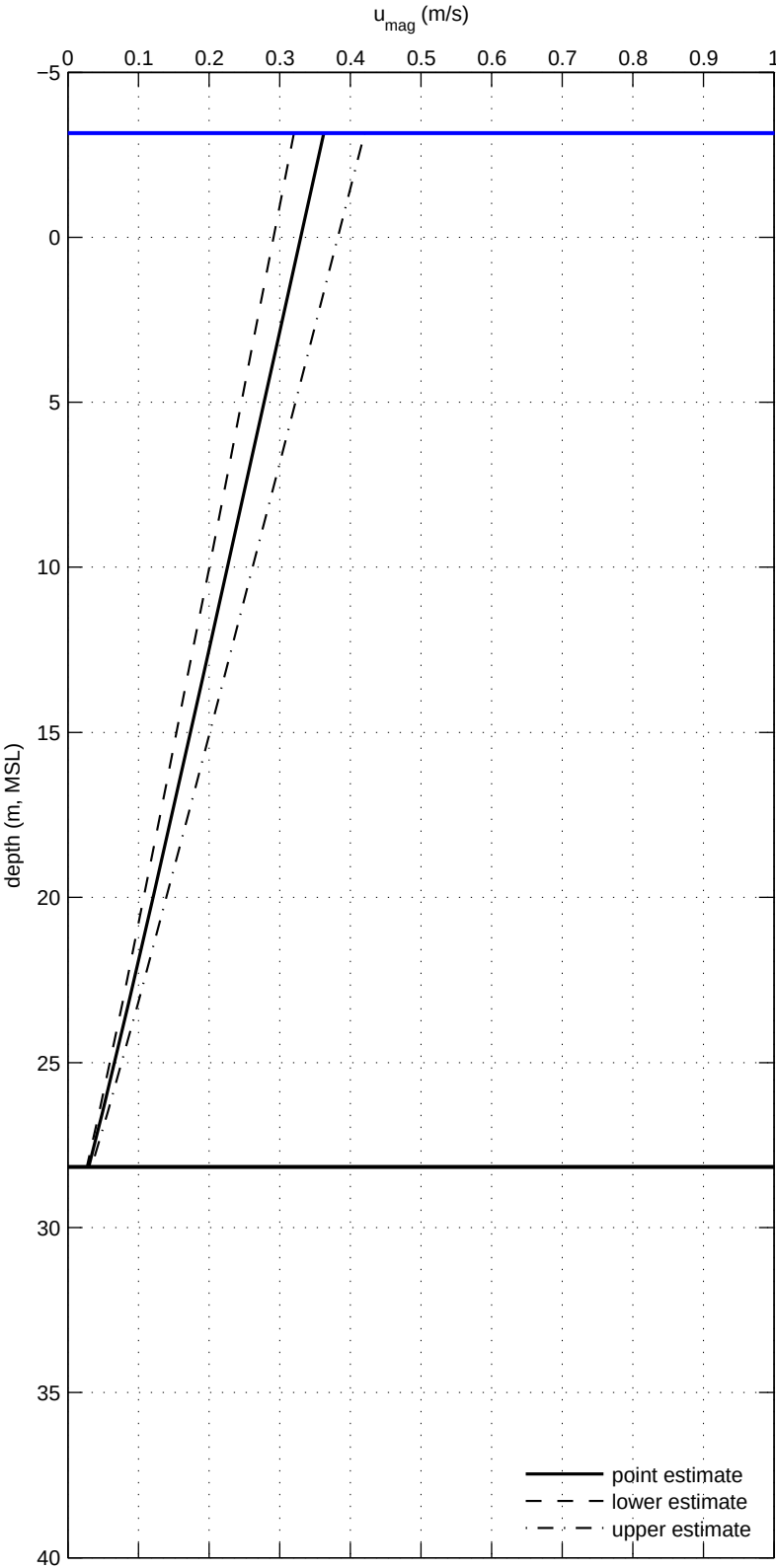
Dir sector ESE



Current profile for directional sector ESE	RP = 100 yr	U10 = 18.8 m/s
Deltares		App. C.3.065

RP = 100 yr (U10 = 21.2 m/s)

Dir sector SSE



Current profile for directional sector SSE

RP = 100 yr

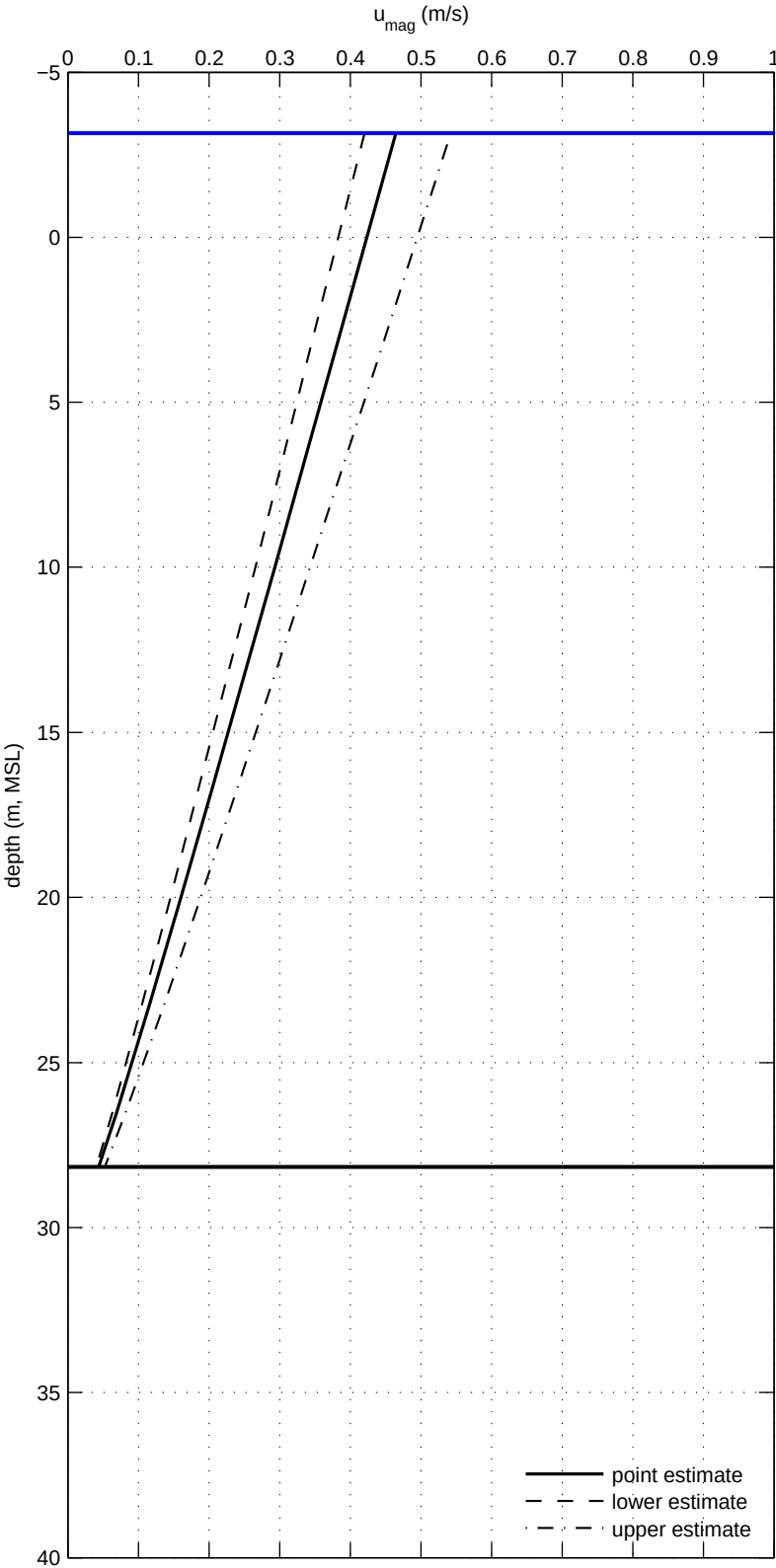
U10 = 21.2 m/s

Deltares

App. C.3.066

RP = 100 yr (U10 = 26.5 m/s)

Dir sector S



Current profile for directional sector S

RP = 100 yr

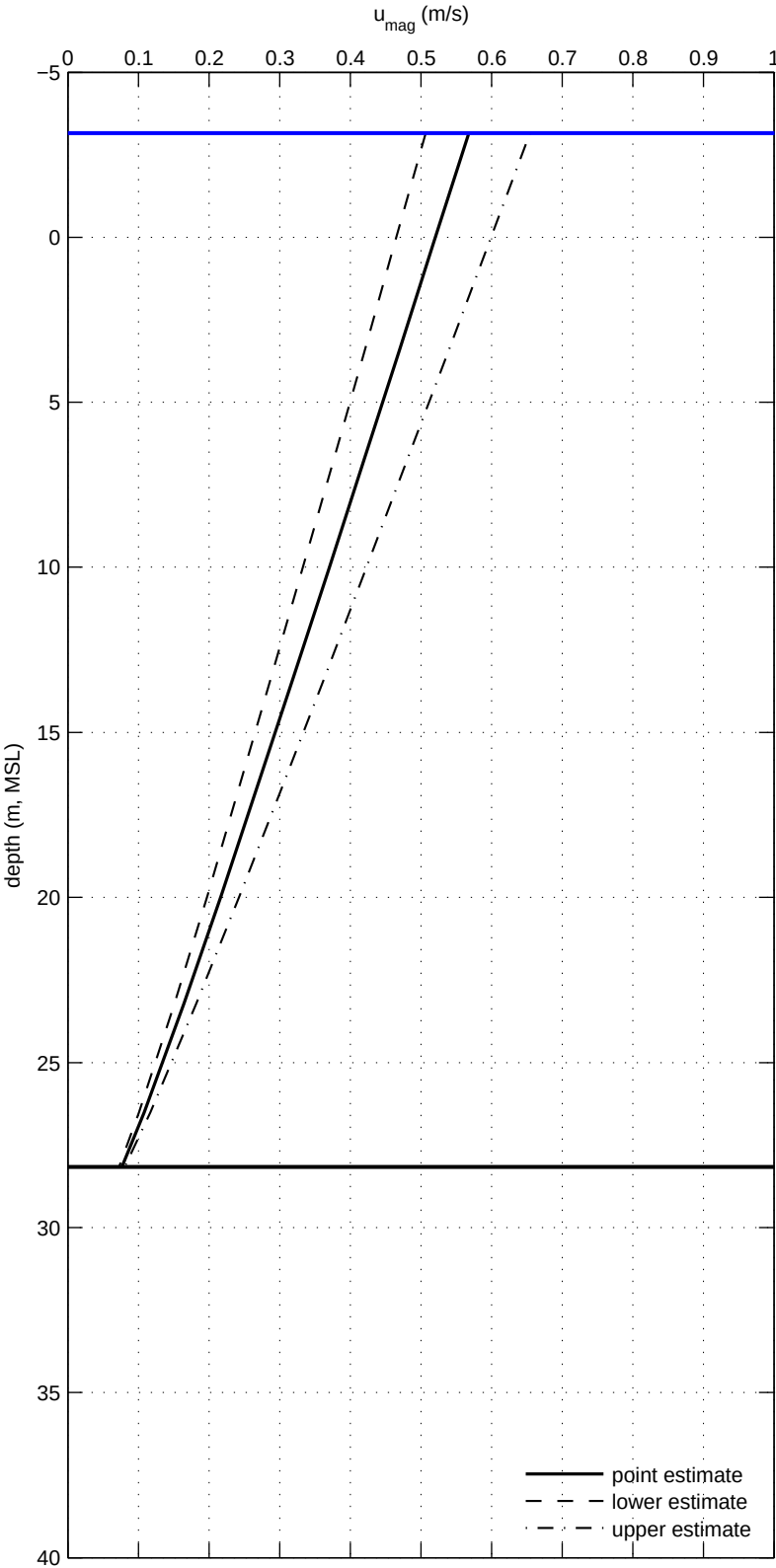
U10 = 26.5 m/s

Deltares

App. C.3.067

RP = 100 yr (U10 = 30.0 m/s)

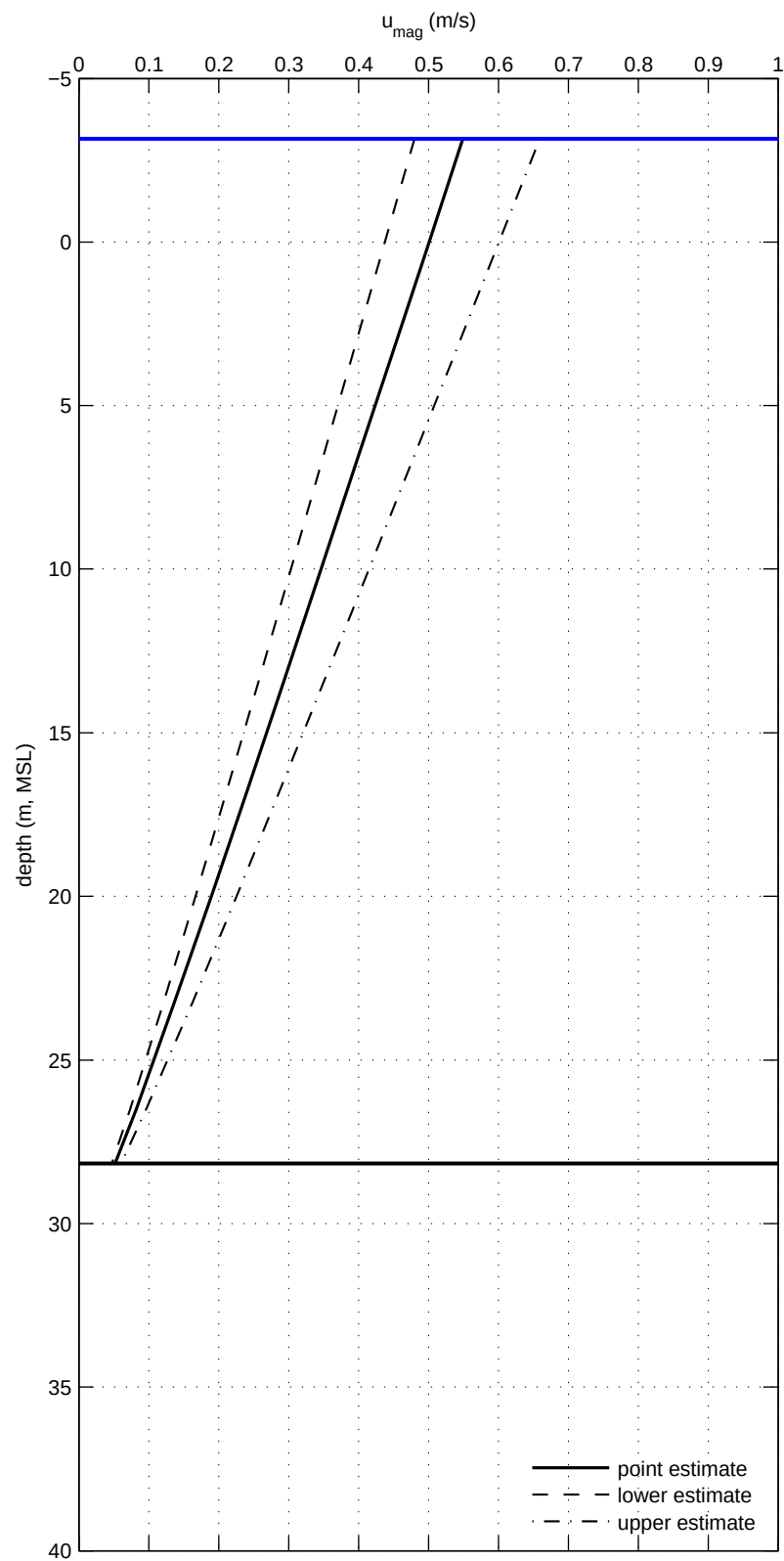
Dir sector SSW



Current profile for directional sector SSW	RP = 100 yr	U10 = 30.0 m/s
Deltares		App. C.3.068

RP = 100 yr (U10 = 31.3 m/s)

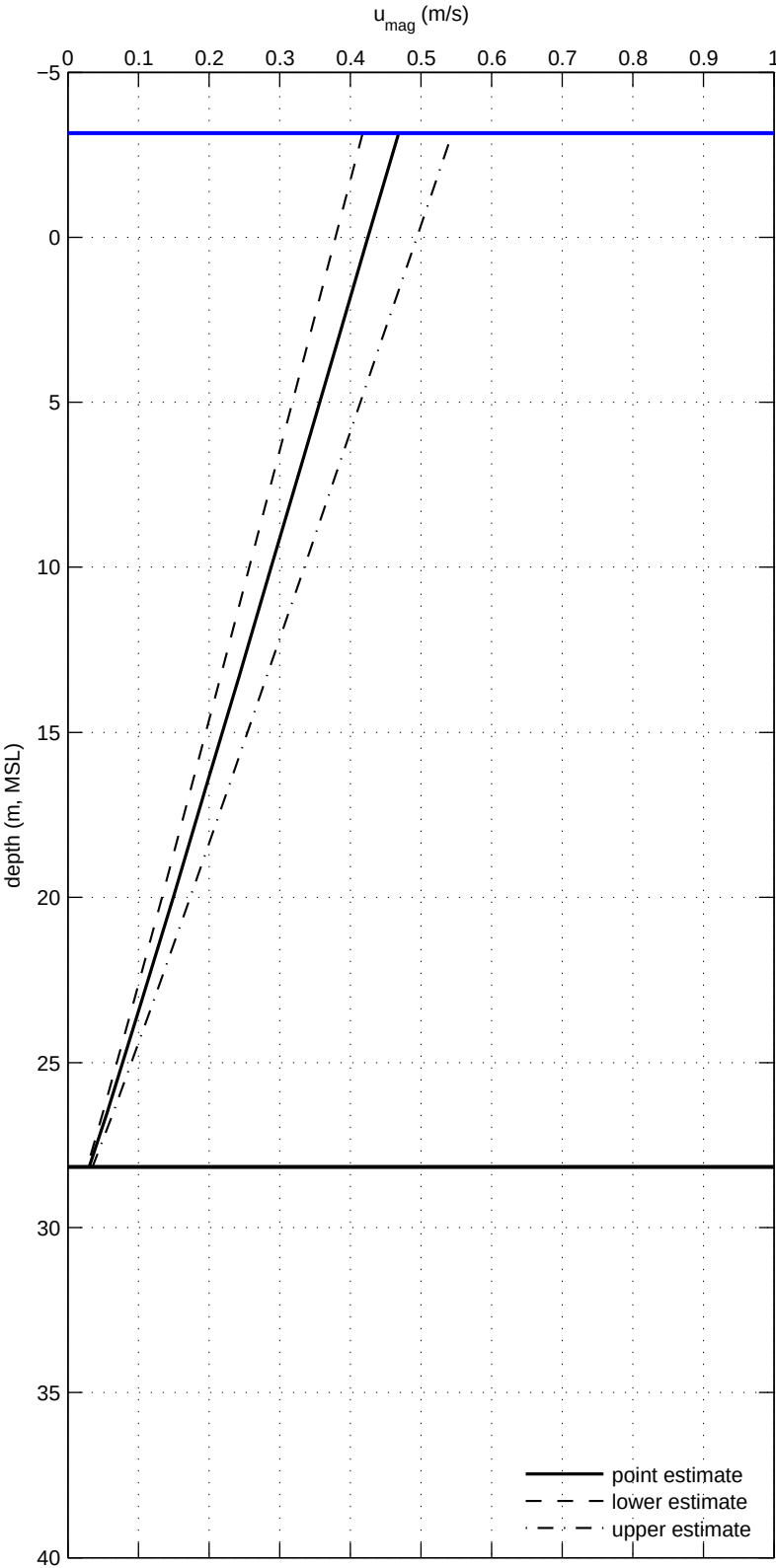
Dir sector WSW



Current profile for directional sector WSW	RP = 100 yr	U10 = 31.3 m/s
Deltares		App. C.3.069

RP = 100 yr (U10 = 28.1 m/s)

Dir sector W



Current profile for directional sector W

RP = 100 yr

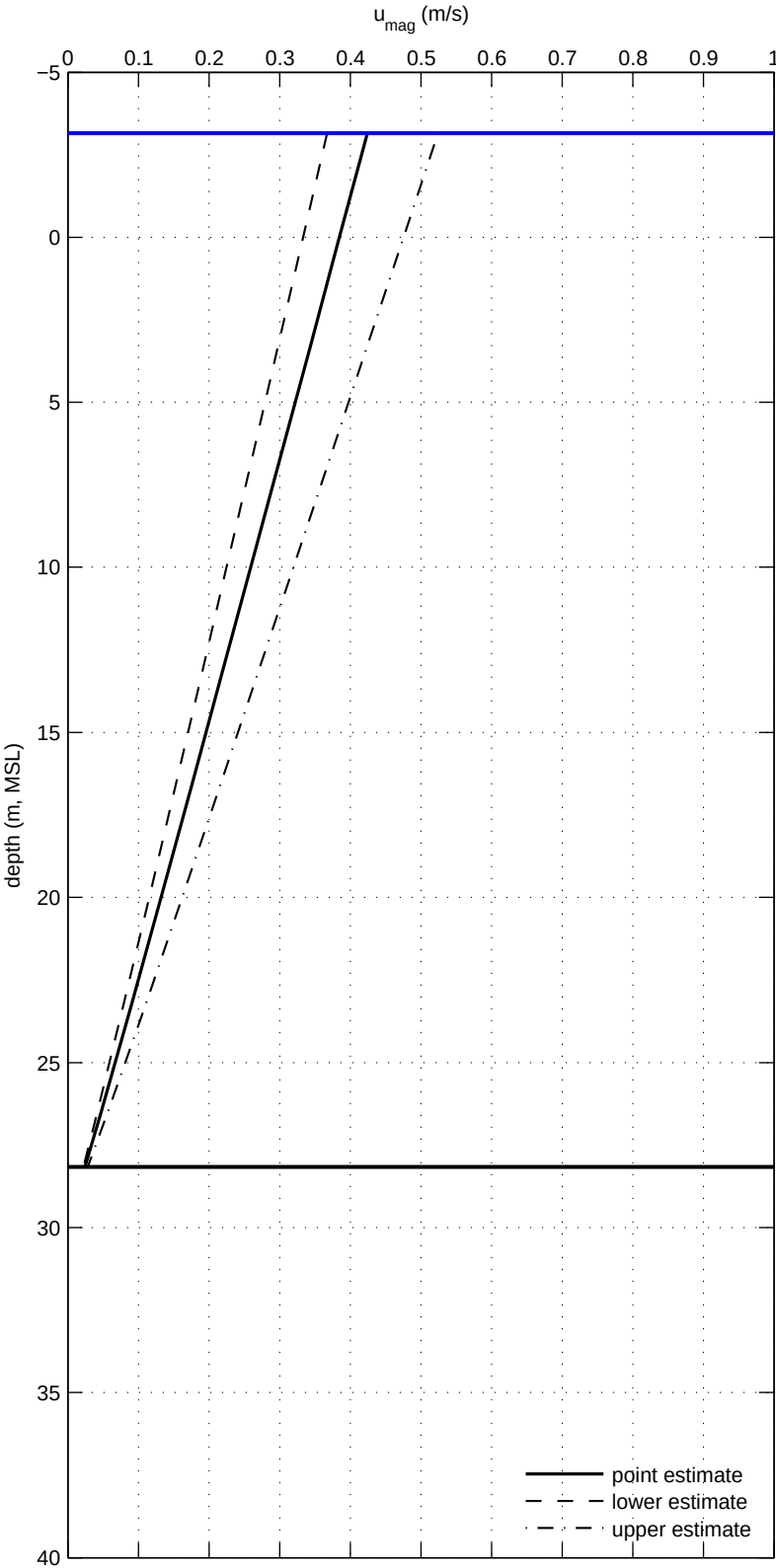
U10 = 28.1 m/s

Deltares

App. C.3.070

RP = 100 yr (U10 = 25.8 m/s)

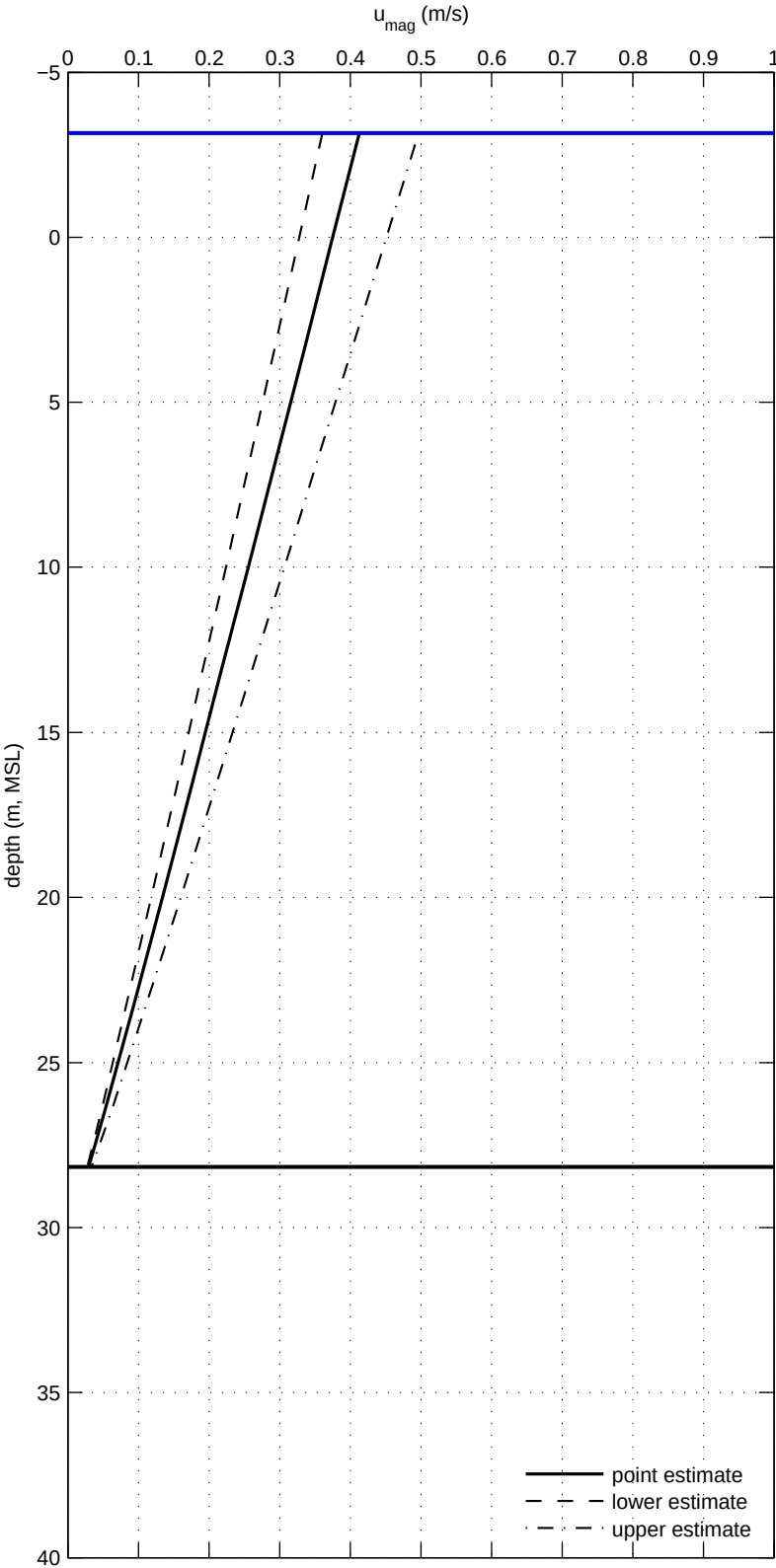
Dir sector WNW



Current profile for directional sector WNW	RP = 100 yr	U10 = 25.8 m/s
Deltares		App. C.3.071

RP = 100 yr (U10 = 24.5 m/s)

Dir sector NNW



Current profile for directional sector NNW	RP = 100 yr	U10 = 24.5 m/s
Deltares		App. C.3.072

		U _c (m/s)													
		0.00-0.10	0.10-0.20	0.20-0.30	0.30-0.40	0.40-0.50	0.50-0.60	0.60-0.70	0.70-0.80	0.80-0.90	0.90-1.00	1.00-1.10	>1.10		
H _s (m)	>7.0														
	6.5-7.0		0.00		0.00		0.00		0.00	0.00				0.00	
	6.0-6.5		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.01	
	5.5-6.0	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00		0.05	
	5.0-5.5	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.08	
	4.5-5.0	0.00	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.24	
	4.0-4.5	0.01	0.04	0.08	0.07	0.08	0.07	0.07	0.06	0.05	0.03	0.01		0.58	
	3.5-4.0	0.03	0.10	0.15	0.15	0.16	0.17	0.18	0.13	0.12	0.05	0.01	0.00	1.26	
	3.0-3.5	0.04	0.18	0.33	0.31	0.30	0.34	0.35	0.28	0.19	0.08	0.01	0.00	2.41	
	2.5-3.0	0.05	0.29	0.56	0.53	0.54	0.59	0.64	0.53	0.34	0.11	0.02		4.17	
	2.0-2.5	0.06	0.49	1.06	1.01	1.07	1.16	1.14	0.99	0.60	0.16	0.00		7.73	
	1.5-2.0	0.04	0.82	1.86	1.72	1.80	2.00	2.04	1.73	1.05	0.20	0.00		13.24	
	1.0-1.5	0.02	1.38	3.62	3.11	3.43	3.77	3.86	3.39	1.89	0.27	0.00		24.76	
	0.5-1.0	0.02	1.87	4.96	4.35	4.69	5.33	5.18	4.52	2.35	0.34			33.60	
	0.0-0.5	0.00	0.62	1.71	1.49	1.61	1.84	1.88	1.65	0.92	0.15			11.87	
		0.26	5.82	14.39	12.78	13.72	15.31	15.38	13.31	7.54	1.40	0.07	0.00	100.00	
All year														Total	

Joint Occurrence table of wave height vs. current velocity

Deltares

App. D.1.001

	residual current velocity (m/s)											
	0.00-0.10	0.10-0.20	0.20-0.30	0.30-0.40	0.40-0.50	0.50-0.60	0.60-0.70	0.70-0.80	0.80-0.90	0.90-1.00	1.00-1.10	>1.10
>7.0												
6.5-7.0			0.00		0.00			0.00				0.00
6.0-6.5	0.00	0.00	0.00	0.00			0.00	0.00				0.01
5.5-6.0	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00				0.05
5.0-5.5	0.01	0.02	0.03	0.02	0.00	0.01	0.00	0.00				0.08
4.5-5.0	0.03	0.07	0.07	0.03	0.02	0.01	0.00					0.24
4.0-4.5	0.14	0.17	0.14	0.07	0.04	0.02	0.00					0.58
3.5-4.0	0.31	0.43	0.30	0.15	0.05	0.01	0.00					1.26
3.0-3.5	0.72	0.96	0.51	0.17	0.04	0.01						2.41
2.5-3.0	1.80	1.70	0.55	0.12	0.01	0.00						4.18
2.0-2.5	4.53	2.65	0.48	0.07	0.01	0.00						7.73
1.5-2.0	10.21	2.77	0.24	0.02	0.00							13.24
1.0-1.5	22.89	1.78	0.08	0.00								24.76
0.5-1.0	33.15	0.44	0.01									33.60
0.0-0.5	11.85	0.02										11.87
	85.66	11.03	2.42	0.66	0.17	0.05	0.01	0.01				100.00
	All year											Total

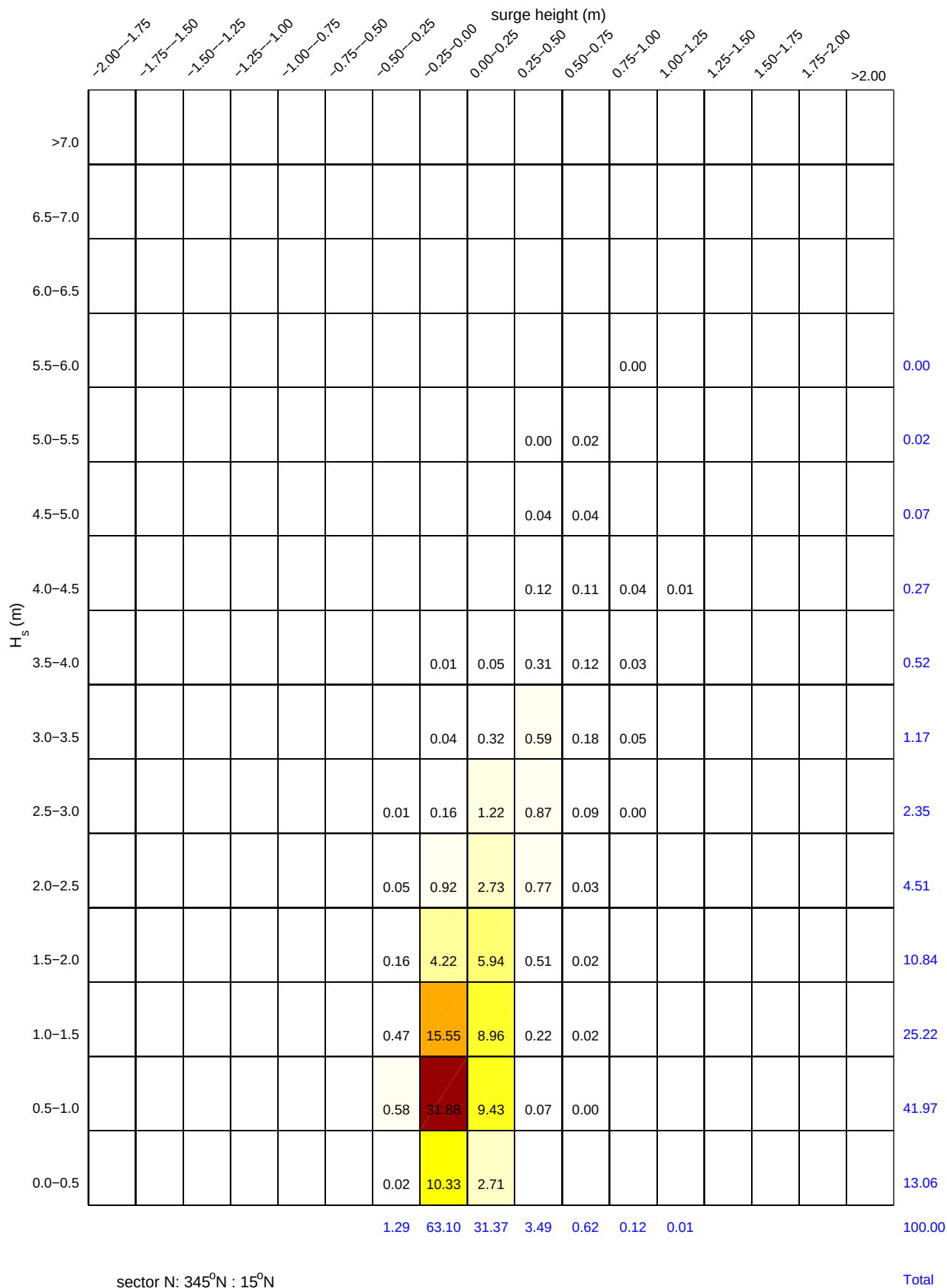
Joint Occurrence table of wave height vs. residual current velocity

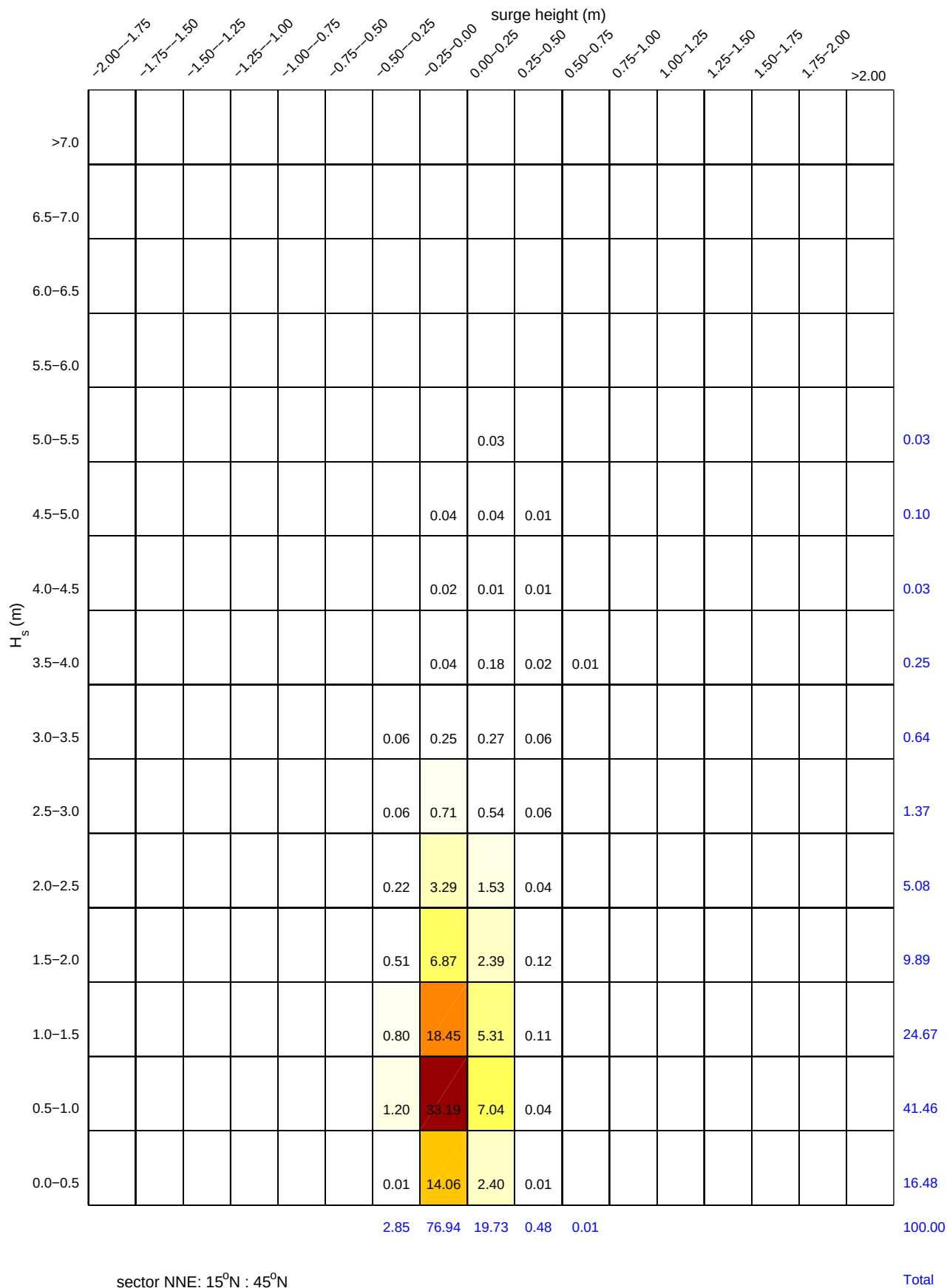
Deltares

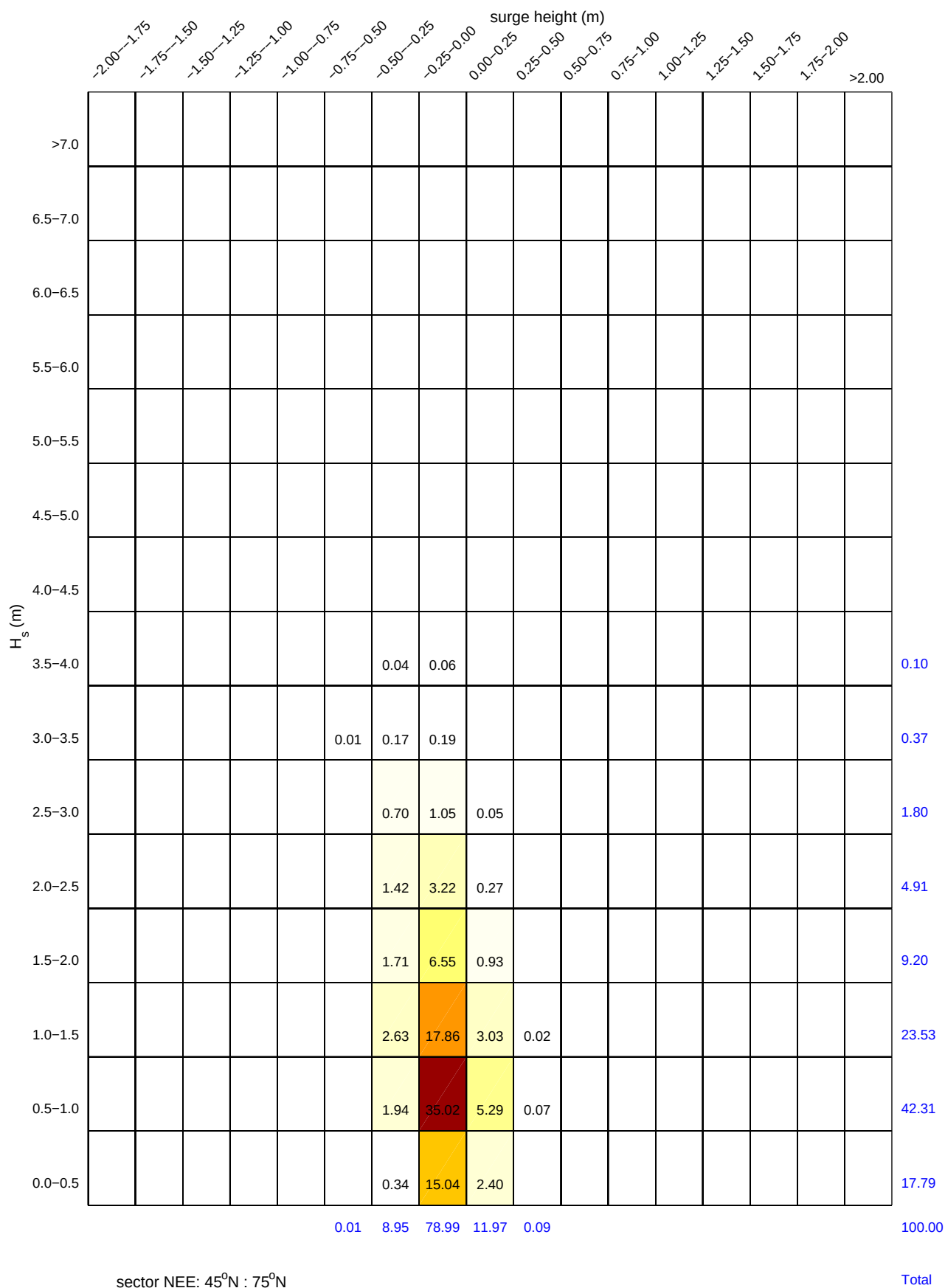
App. D.1.002

		surge height (m)																	
		-2.00--1.75	-1.75--1.50	-1.50--1.25	-1.25--1.00	-1.00--0.75	-0.75--0.50	-0.50--0.25	-0.25--0.00	0.00--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
H _s (m)	>7.0																		
	6.5-7.0									0.00	0.00								0.00
	6.0-6.5								0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	5.5-6.0								0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.05
	5.0-5.5						0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00				0.08
	4.5-5.0						0.01	0.01	0.04	0.03	0.05	0.06	0.03	0.01	0.00				0.24
	4.0-4.5				0.00	0.01	0.02	0.05	0.07	0.08	0.16	0.13	0.05	0.01	0.00				0.58
	3.5-4.0				0.00	0.02	0.07	0.15	0.26	0.27	0.30	0.15	0.03	0.00	0.00				1.26
	3.0-3.5			0.00	0.01	0.05	0.12	0.33	0.59	0.68	0.48	0.12	0.01	0.01	0.00				2.41
	2.5-3.0			0.00	0.01	0.06	0.26	0.74	1.30	1.19	0.51	0.08	0.02	0.00					4.18
H _s (m)	2.0-2.5			0.00	0.01	0.07	0.54	1.93	2.97	1.80	0.36	0.05	0.01						7.73
	1.5-2.0			0.00	0.01	0.08	0.97	4.24	6.03	1.69	0.19	0.02	0.01						13.24
	1.0-1.5				0.00	0.05	1.42	11.53	10.45	1.22	0.07	0.01	0.00						24.76
	0.5-1.0					0.03	1.15	21.99	10.17	0.26	0.01	0.00							33.60
	0.0-0.5						0.11	8.91	2.82	0.03									11.87
																		100.00	
All year																		Total	

Joint Occurrence table of wave height vs. residual water level (surge height)		
	Omnidirectional	
Deltares		App. D.1.004







	surge height (m)																
	-2.00--1.75	-1.75--1.50	-1.50--1.25	-1.25--1.00	-1.00--0.75	-0.75--0.50	-0.50--0.25	-0.25--0.00	0.00--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
>7.0																	
6.5-7.0																	
6.0-6.5																	
5.5-6.0																	
5.0-5.5																	
4.5-5.0																	
4.0-4.5																	
3.5-4.0																	
3.0-3.5					0.03	0.56											0.59
2.5-3.0						0.37	0.82	0.13									1.32
2.0-2.5						0.50	3.45	0.90									4.85
1.5-2.0						0.16	6.79	3.73	0.14	0.02							10.84
1.0-1.5						0.11	8.99	9.34	1.01	0.02							19.48
0.5-1.0							5.39	34.75	3.29	0.05							43.48
0.0-0.5							0.34	16.86	2.25								19.44
							0.03	1.70	25.79	65.70	6.70	0.08					100.00
sector E: 75°N : 105°N																	Total

Joint Occurrence table of wave height vs. residual water level (surge height)
Nautical convention: coming from, clockwise from North

sector E: 75°N : 105°N

Deltares

App. D.1.008

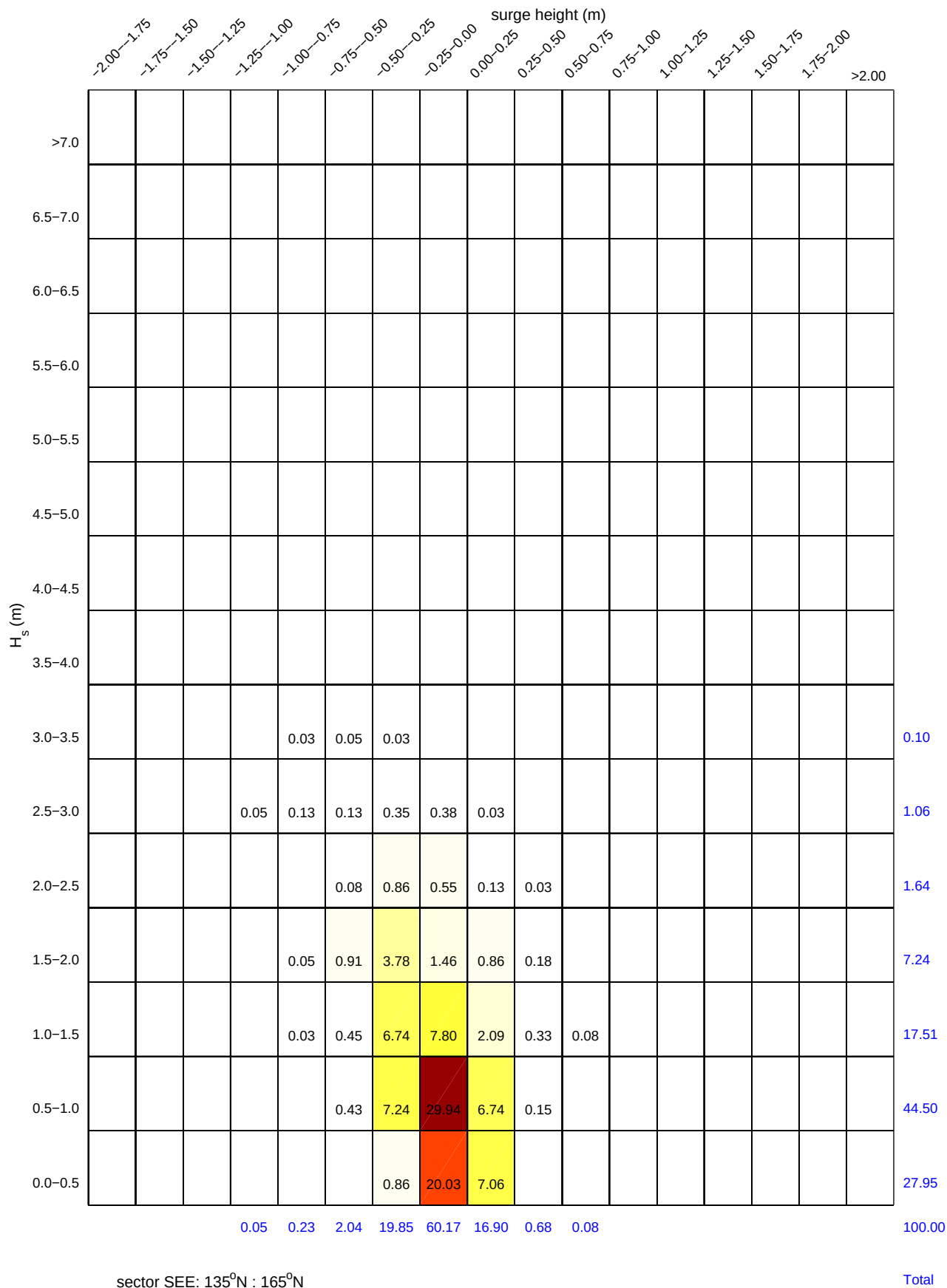
	surge height (m)																
	-2.00--1.75	-1.75--1.50	-1.50--1.25	-1.25--1.00	-1.00--0.75	-0.75--0.50	-0.50--0.25	-0.25--0.00	0.00--0.25	0.25--0.50	0.50--0.75	0.75--1.00	1.00--1.25	1.25--1.50	1.50--1.75	1.75--2.00	>2.00
>7.0																	
6.5-7.0																	
6.0-6.5																	
5.5-6.0																	
5.0-5.5																	
4.5-5.0																	
4.0-4.5																	
3.5-4.0																	
3.0-3.5						0.05											0.05
2.5-3.0						0.10	0.05										0.15
2.0-2.5						0.33	0.51	0.18									1.01
1.5-2.0						0.58	3.37	2.15	0.13								6.23
1.0-1.5					0.15	0.73	8.05	8.05	1.77	0.13							18.90
0.5-1.0						0.38	7.67	34.65	5.60	0.05							48.35
0.0-0.5							0.81	20.72	3.77								25.30
						0.15	2.18	20.47	65.75	11.27	0.18						100.00
sector SEE: 105°N : 135°N																	Total

Joint Occurrence table of wave height vs. residual water level (surge height)
Nautical convention: coming from, clockwise from North

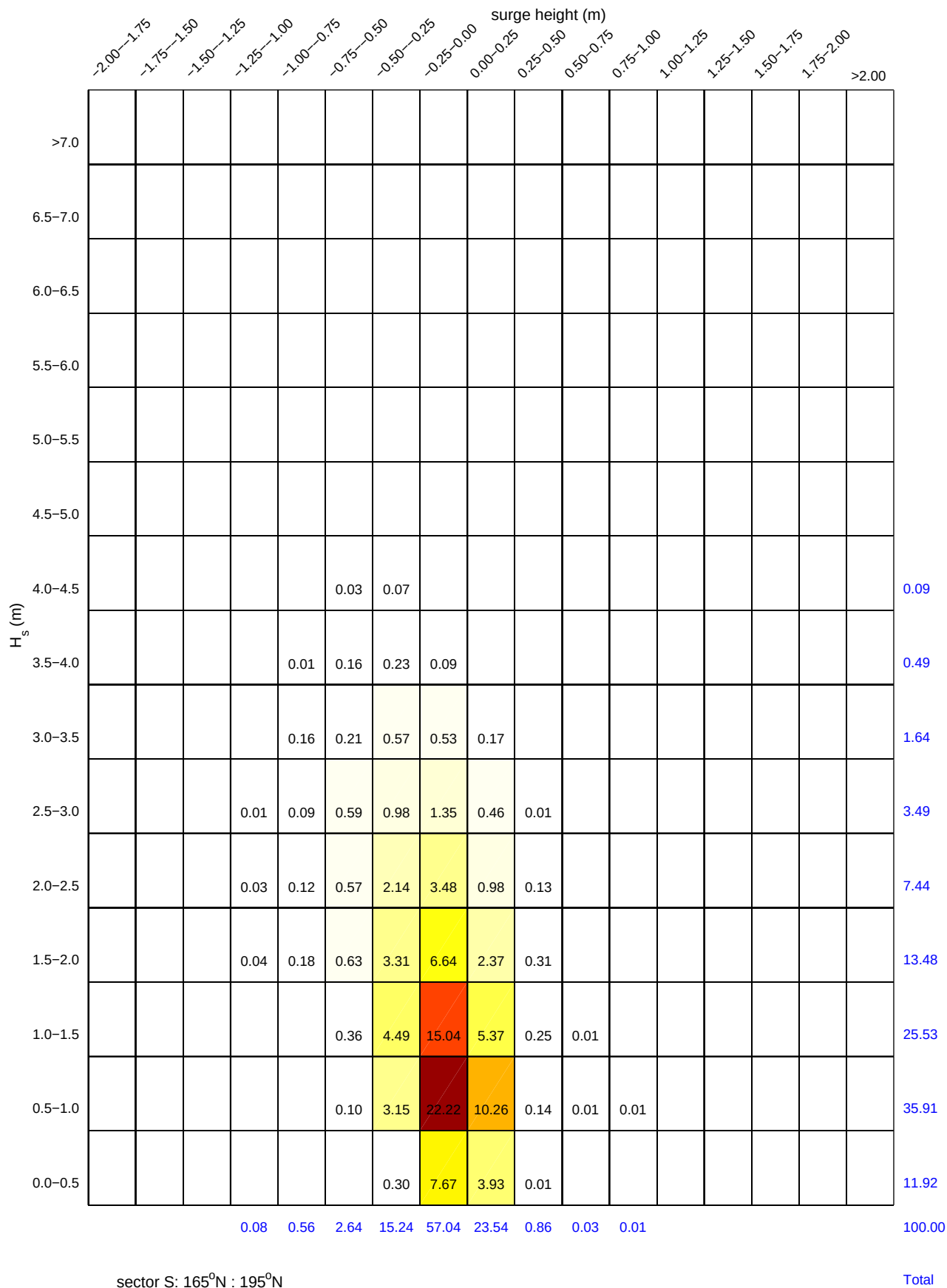
sector SEE: 105°N : 135°N

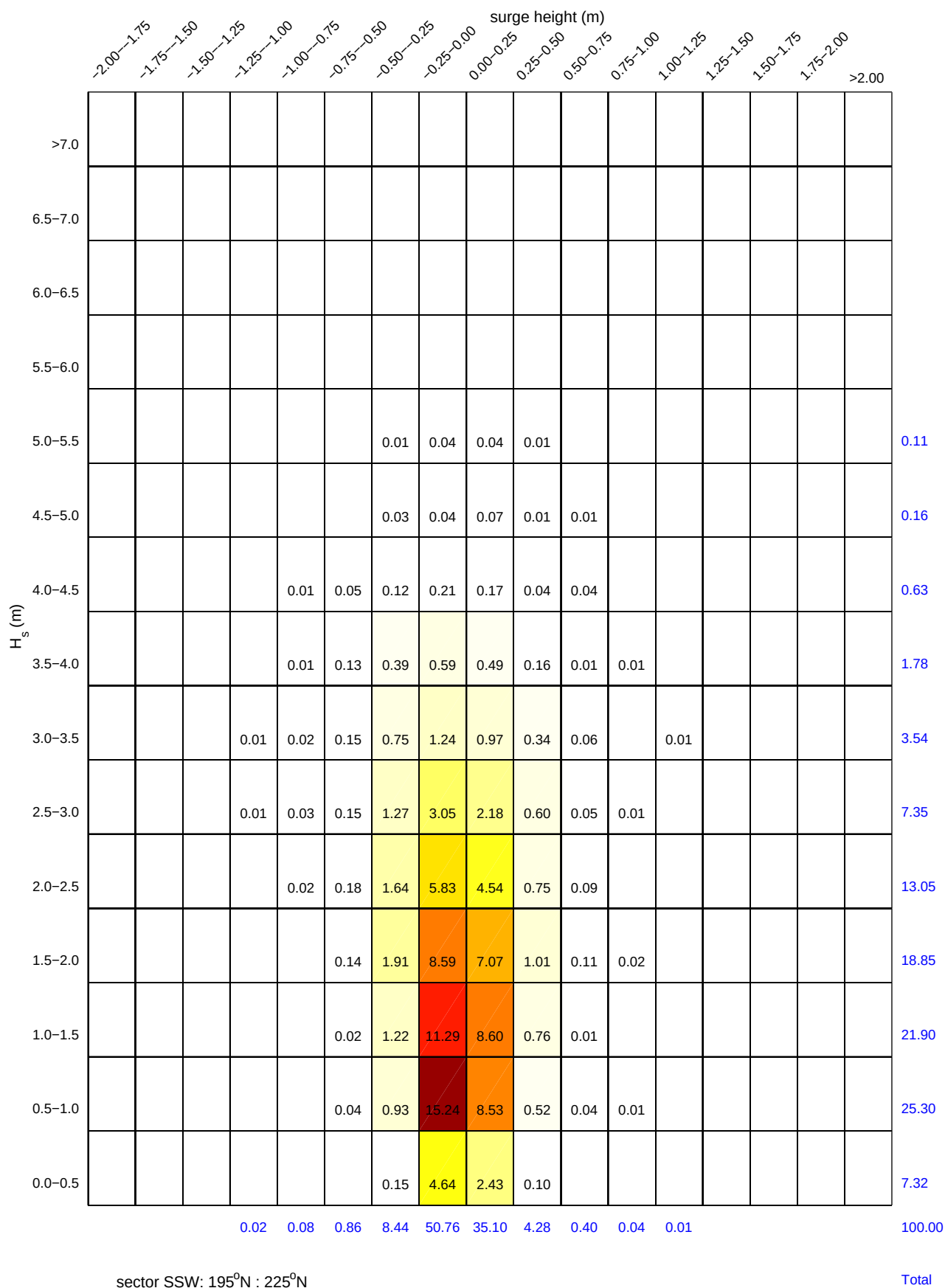
Deltares

App. D.1.009



Joint Occurrence table of wave height vs. residual water level (surge height) Nautical convention: coming from, clockwise from North		
	sector SEE: 135°N : 165°N	
Deltares		App. D.1.010





Joint Occurrence table of wave height vs. residual water level (surge height) Nautical convention: coming from, clockwise from North		
	sector SSW: 195°N : 225°N	
Deltares		App. D.1.012

		surge height (m)																	
		-2.00--1.75	-1.75--1.50	-1.50--1.25	-1.25--1.00	-1.00--0.75	-0.75--0.50	-0.50--0.25	-0.25--0.00	0.00--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	
H _s (m)	>7.0																		
	6.5--7.0									0.00	0.00								0.01
	6.0--6.5								0.00	0.00									0.01
	5.5--6.0								0.01	0.01	0.02								0.04
	5.0--5.5						0.01	0.04	0.05	0.02	0.02		0.00						0.14
	4.5--5.0						0.02	0.03	0.19	0.14	0.06	0.03	0.00						0.48
	4.0--4.5						0.04	0.20	0.31	0.24	0.20	0.05	0.00						1.05
	3.5--4.0					0.01	0.12	0.52	1.02	0.85	0.35	0.10	0.00						2.97
	3.0--3.5					0.00	0.08	0.92	2.20	1.41	0.37	0.09	0.00						5.08
	2.5--3.0					0.00	0.08	1.34	3.51	1.95	0.49	0.06	0.01	0.01					7.45
	2.0--2.5						0.16	2.53	5.98	2.03	0.36	0.03	0.01						11.10
	1.5--2.0					0.01	0.31	4.61	9.65	2.00	0.25	0.02	0.01						16.86
	1.0--1.5					0.01	0.43	9.81	12.38	1.80	0.16	0.02	0.00						24.62
	0.5--1.0						0.19	12.84	10.59	0.35	0.01	0.01							23.99
	0.0--0.5						0.02	3.85	2.33	0.01									6.21
		0.04 1.45 36.68 48.23 10.82 2.29 0.43 0.05 0.01 100.00																	
sector SWW: 225°N : 255°N		Total																	

Joint Occurrence table of wave height vs. residual water level (surge height) Nautical convention: coming from, clockwise from North		
	sector SWW: 225°N : 255°N	
Deltares		App. D.1.013

