Supplemental Table S1:

Table relating wave height and direction with wind data from ERA5 global reanalysis and NOAA Station MTB – Middle of Tampa Bay (ID: MTBF1 – 8726412)										
CDIP / CMS WAVE BUOY 214 - Lat: 27 35.418' (N), Long: 82 55.878' (W) - Depth ~ 13m										
Date	H_s (m)	H_{max} (m)	C_{max} (m)	Peak Direction (°)	ERA5 wind speed (m/s)	ERA5 wind direction (°)	ERA5 gust at 10m (m/s)	MTB wind speed (m/s)	MTB wind direction (°)	MTB wind gust (m/s)
1/17/2016 13:03	2.075	4.27	2.17	219.594	8.903	260.992	12.275	6.9	280	7.9
1/17/2016 13:33	2.152	4.39	2.41	230.844	14.502	319.267	22.06	5.0	287	6.1
1/23/2016 10:33	3.386	8.14	4.97	257.562	12.613	298.969	19.865	14.5	311	19.3
1/24/2016 0:33	2.474	5.25	3.1	277.25	11.473	306.729	16.687	10.1	327	13.3
2/9/2016 12:03	2.491	5.28	3.21	271.625	9.538	310.16	14.866	7.1	338	9.1
2/25/2016 12:03	2.112	4.3	2.55	258.969	9.29	325.131	13.568	7.0	344	8.5
2/25/2016 13:03	1.963	4.39	2.55	258.969	9.151	318.478	13.648	6.3	346	8.7
6/6/2016 18:03	2.161	4.33	2.58	209.75	13.348	167.386	20.682	9.3	192	12.0
6/7/2016 4:33	2.533	5.14	3.34	209.75	13.93	208.467	17.068	15.5	217	19.0
6/7/2016 9:03	2.086	4.47	3	219.594	11.824	233.834	15.968	13.0	231	15.5
9/2/2016 8:03	3.031	6.27	3.65	236.469	14.478	222.806	19.933	13.3	224	15.6
1/22/2017 23:33	2.438	5.38	2.55	222.812	13.714	216.538	21.291	10.0	241	14.7
1/24/2017 5:33	2.594	5.37	3.26	253.75	11.041	309.668	15.383	11.3	329	13.1
1/24/2017 9:33	2.195	4.6	2.32	262.188	8.663	316.866	11.325	5.9	345	7.2
1/30/2017 4:03	1.689	4.04	2.23	293.125	9.849	288.862	13.217	10.5	314	12.2
1/30/2017 13:33	2.013	4.11	2.33	274.844	10.251	351.434	14.941	11.3	8	13.5
3/14/2017 14:33	1.857	4.03	2.66	293.125	9.169	317.029	13.949	8.9	336	12.6
12/10/2017 4:33	2.032	4.86	3.01	269.219	9.701	332.621	13.701	7.9	356	10.2
3/21/2018 15:03	1.986	4.28	2.6	281.875	9.89	318.3	13.926	10.4	339	12.8
4/16/2018 10:33	2.127	4.87	2.7	267.812	11.041	321.114	16.621	10.8	341	12.2
10/10/2018 8:33	2.091	4.22	1.99	224.219	13.035	156.442	18.629	9.8	147	12.6
10/10/2018 9:33	2.307	5.1	2.94	227.031	13.172	159.931	17.566	9.4	156	11.0
10/10/2018 15:03	2.303	4.85	2.84	224.219	13.426	189.111	17.587	8.9	184	11.9
10/10/2018 16:33	2.511	5.47	3.22	256.562	12.962	190.001	17.27	12.4	198	14.7
10/11/2018 1:33	2.097	4.54	2.53	276.25	8.611	217.308	11.869	7.3	215	8.7
12/21/2018 3:33	2.35	4.87	2.72	218.594	13.863	226.839	17.262	11.3	246	12.5
12/21/2018 14:03	3.582	8.46	5.86	257.969	13.706	259.303	21.925	16.8	290	20.7
12/21/2018 14:33	3.553	7.4	4.91	262.188	14.319	259.2	21.894	12.0	270	13.8
12/22/2018 4:03	2.667	5.53	2.99	259.375	10.79	287.179	13.586	6.3	322	8.2
1/20/2019 11:03	1.984	4.07	2.17	255.156	10.706	279.608	14.443	8.7	309	10.7
4/20/2019 12:33	2	4.18	2.37	267.812	10.247	284.82	14.841	11.7	311	14.5
10/19/2019 8:03	1.77	4.04	2.39	212.969	10.905	162.148	16.206	7.9	154	10.3