Pierson - Moskowitz Sea Spectrum

- Values are worst case forecasts for open water in vicinity of referenced point

General guide of sea state versus operating frequency.

Wind Speed (Kts)	Sea State	Significant Wave (Ft)	Significant Range of Periods (Sec)	Average Period (Sec)	Average Length of Waves (FT)	Beaufort	Operational speed
3	0	<.5	<.5 - 1	0.5	1.5	1	30/50 hz
4	0	<.5	.5 - 1	1	2	2	30/50 hz
5	1	0.5	1 - 2.5	1.5	9.5	2	30/50 hz
7	1	1	1 - 3.5	2	13	3	40/50 hz
8	1	1	1 - 4	2	16	3	40/50 hz
9	2	1.5	1.5 - 4	2.5	20	3	50/60 hz
10	2	2	1.5 - 5	3	26	3	50/60 hz
11	2.5	2.5	1.5 - 5.5	3	33	4	50 hz
13	2.5	3	2 - 6	3.5	39.5	4	50 hz
14	3	3.5	2 - 6.5	3.5	46	4	45 hz
15	3	4	2 - 7	4	52.5	4	45 hz
16	3.5	4.5	2.5 - 7	4	59	4	40 hz
17	3.5	5	2.5 - 7.5	4.5	65.5	5	40 hz
18	4	6	2.5 - 8.5	5	79	5	40 hz
19	4	7	3 - 9	5	92	5	35 hz
20	4	7.5	3 - 9.5	5.5	99	5	30 hz
21	5	8	3 - 10	5.5	105	5	25 hz
Night mode	2	1.5	1.5 - 4	3	20	3	25 hz

Sea State 2



Wind: 4-6 Knots Light breeze Small wavelets, crests glassy, no breaking Wind felt on face, leaves rustle, vanes begin to move

Sea State 3



Wind: 7-10 Knots
Gentle breeze
Large wavelets, crests begin to break, scattered whitecaps
Leaves and small twigs constantly moving, light flags extended

Sea State 4



Wind: 11-16 Knots Moderate breeze

Small waves 1-4 feet becoming longer, numerous whitecaps Dust, leaves, and loose paper lifted, small tree branches move