

SpaceX GOM Launch Platform - January

Weather Days

Wave Height > 3.0 ft Mean: 19.1 days Range: 15.7 - 22.6 days p50: 19 days p90: 20 days
Wave Height > 4.0 ft Mean: 12.4 days Range: 9.2 - 15.7 days p50: 13 days p90: 18 days
Wave Height > 5.0 ft Mean: 7.2 days Range: 4.5 - 9.9 days p50: 8 days p90: 12 days

Working Window Probability

Wave Height < 3.0 ft	3 days or longer: 21%
	5 days or longer: 1%
	7 days or longer: 0%
Wave Height < 4.0 ft	3 days or longer: 41%
	5 days or longer: 7%
	7 days or longer: 2%
Wave Height < 5.0 ft	3 days or longer: 58%
	5 days or longer: 17%
	7 days or longer: 7%

Waves

Mean Height: 2 - 4 ft
The wave heights will occasionally reach 8 - 10 ft, but rarely higher.

Currents

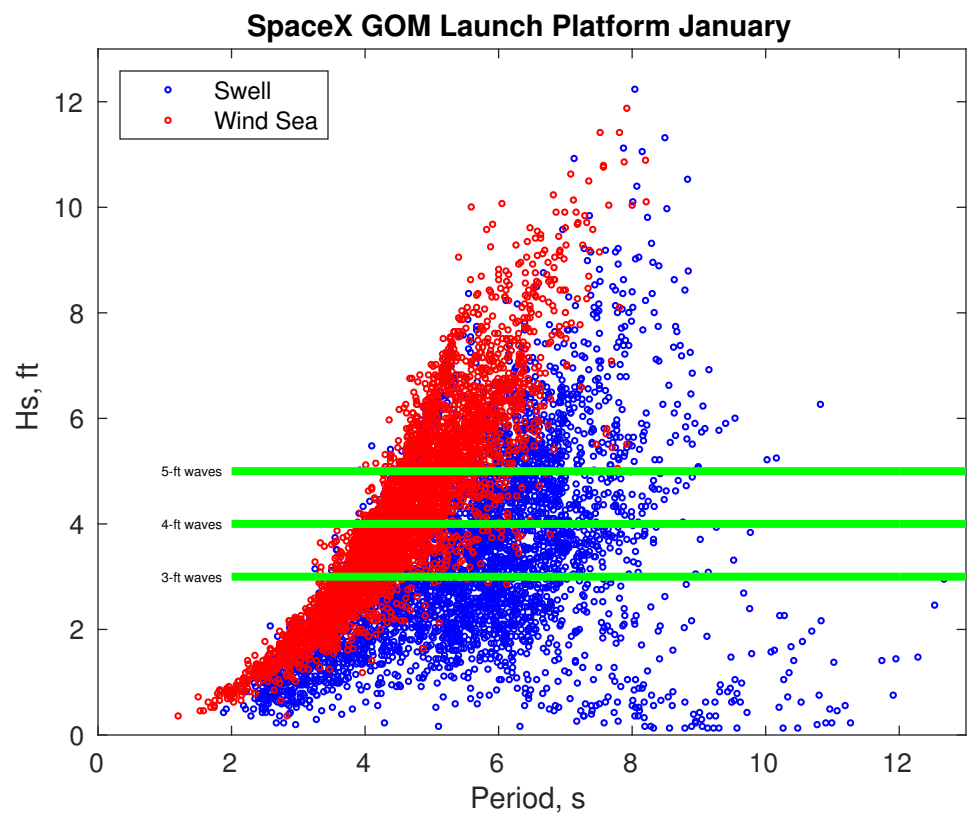
Period: 4 - 6 sec
The wave periods will occasionally reach 8 - 10 sec, but rarely longer.
Mean Speed: 0.25-0.50 kts
Principle Direction, from: SE
The currents will occasionally reach 0.75-1.00 kts, but rarely greater.
WindSea/Swell: 54% / 46%

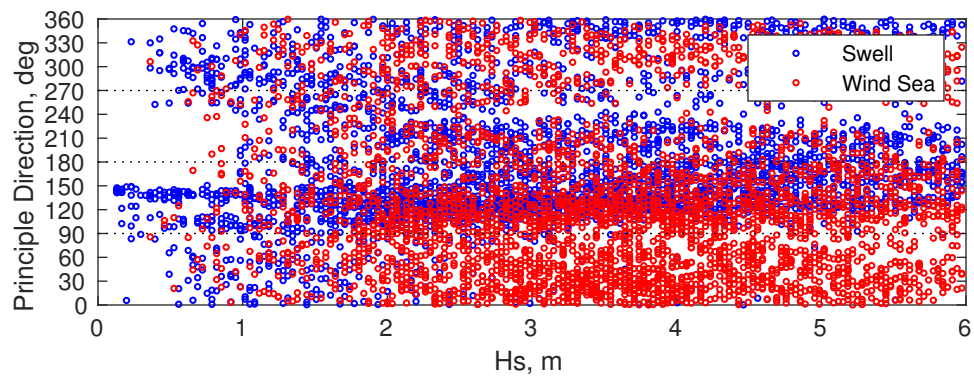
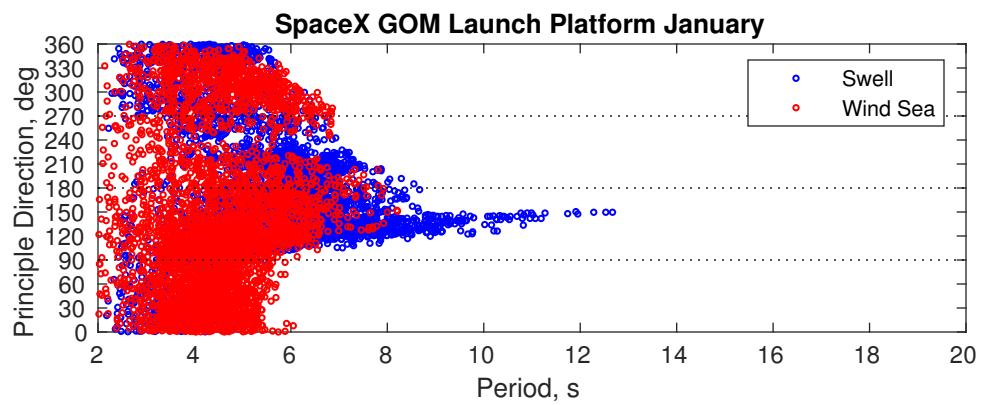
Winds

Principle Direction, from: WNW
Mean Speed: 10 - 15 kts
The winds will occasionally reach 30 - 35 kts, but rarely greater.
Principle Direction, from: NNE

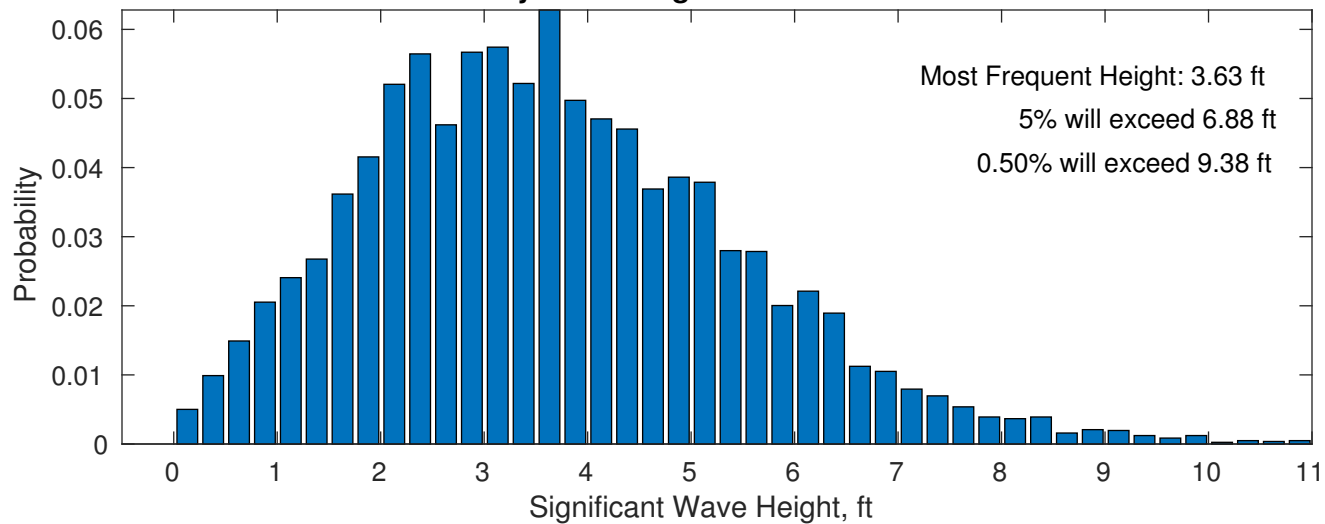
Severe Storms

Severe storms with gale force winds and extreme waves are not expected.

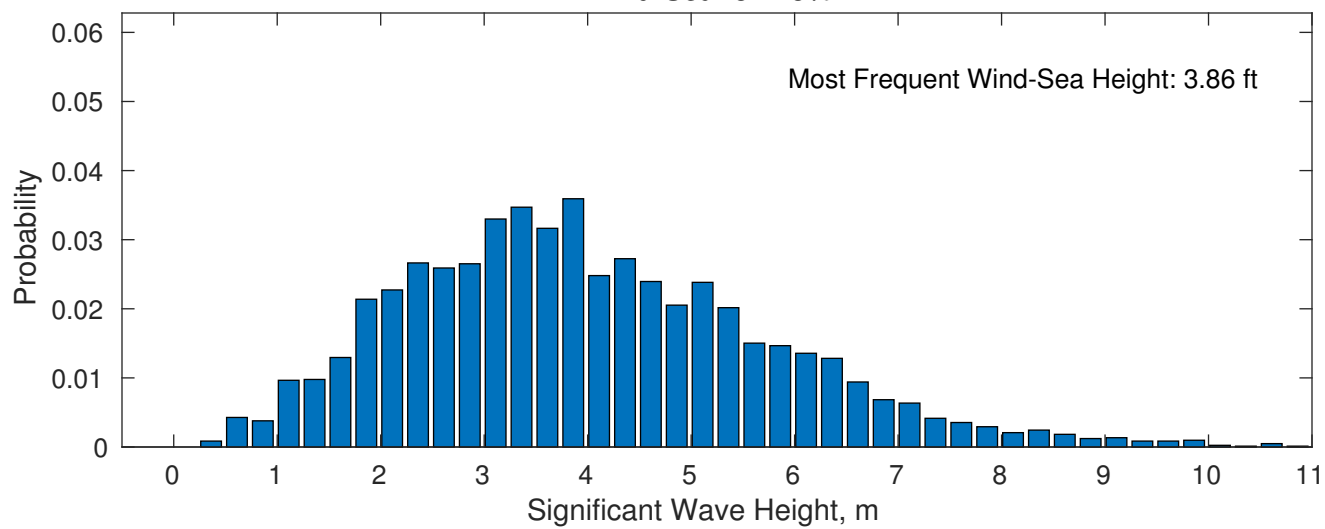




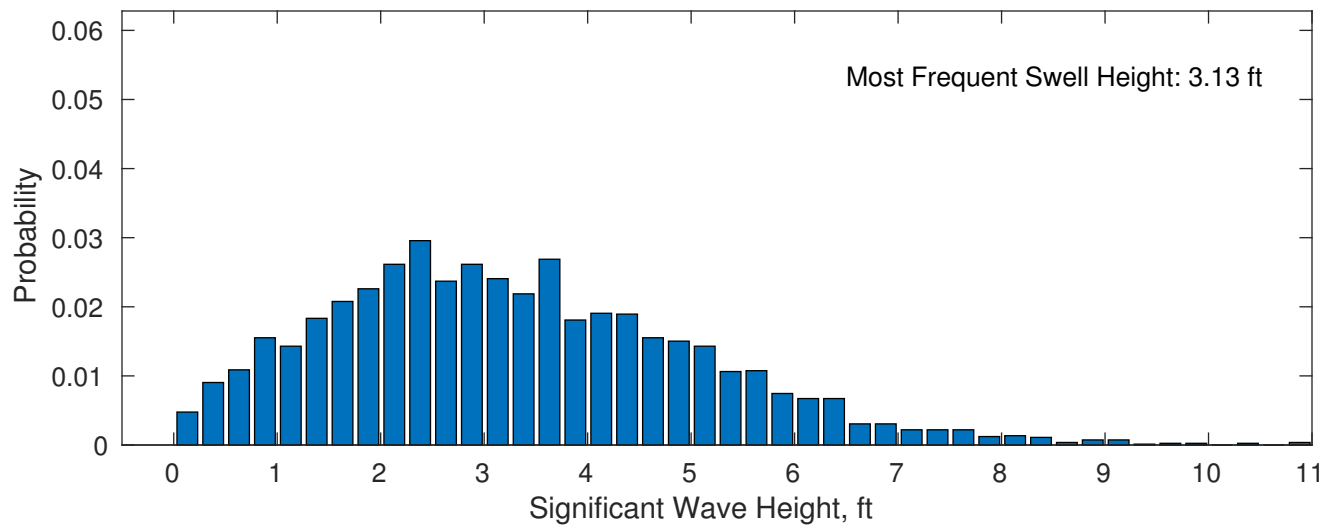
January Wave Height PDF: 1979 - 2015



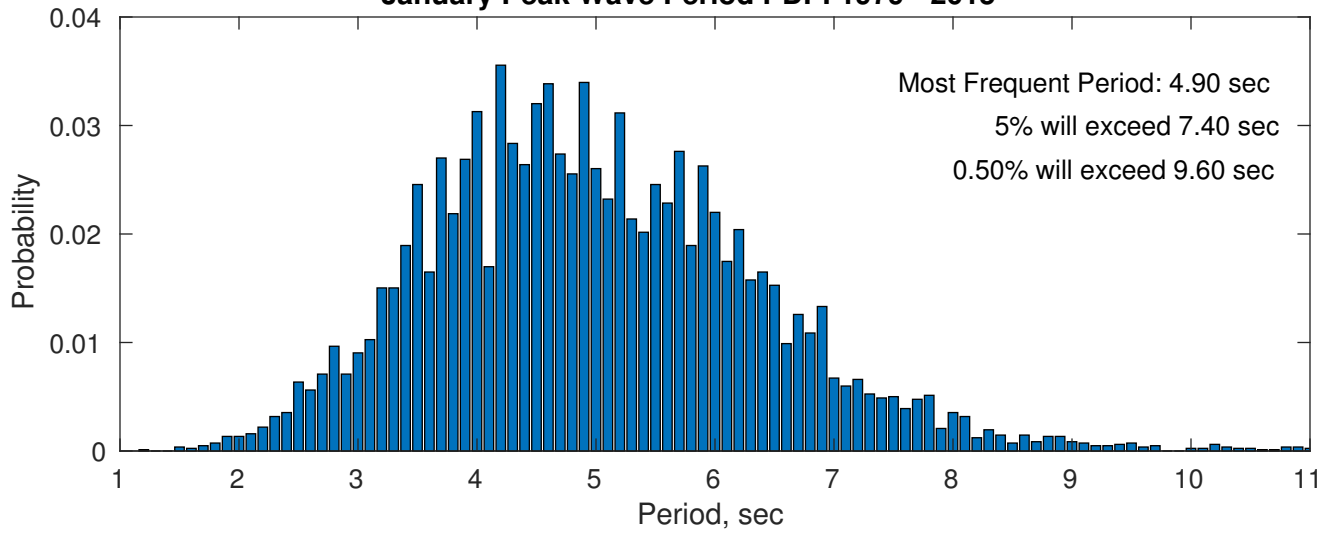
Wind-Sea: 54.25%



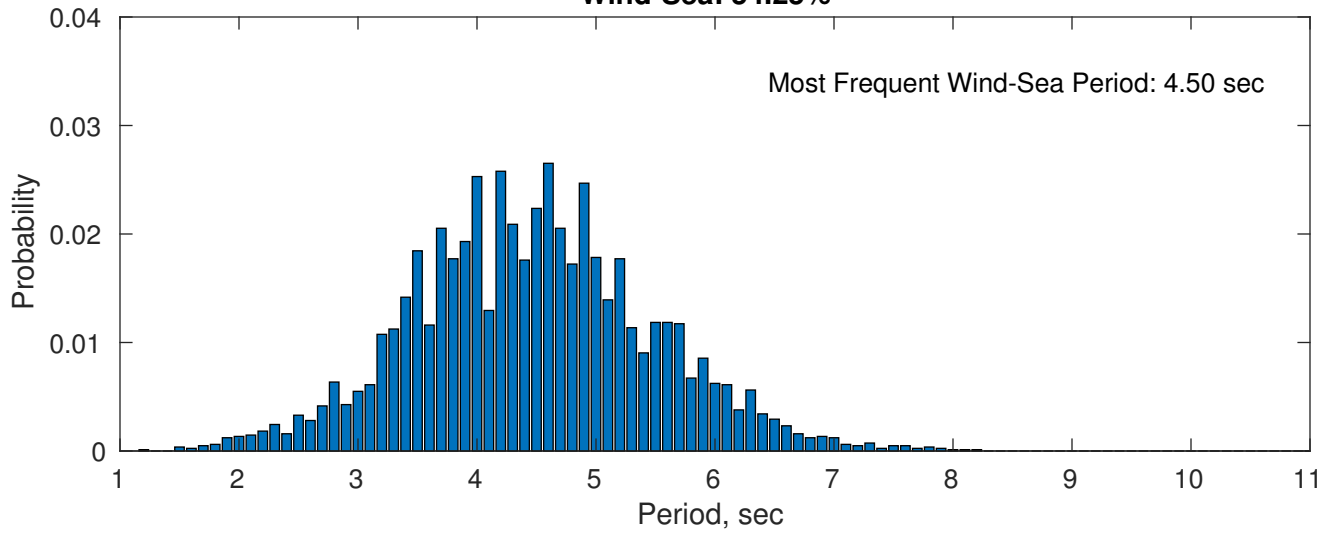
Swell: 45.75%



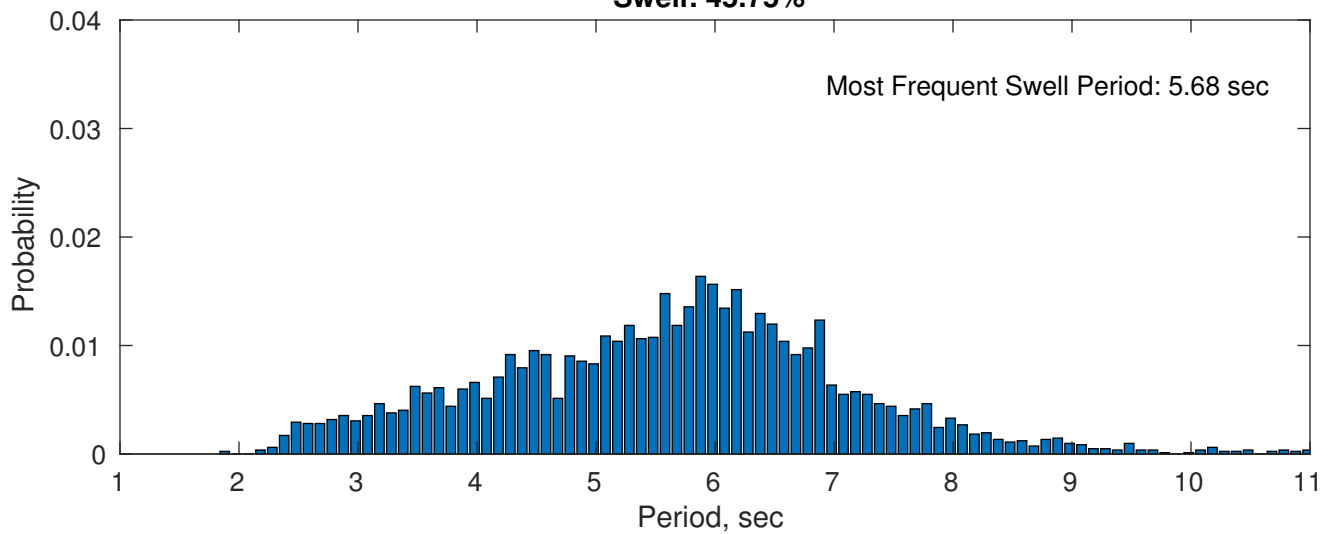
January Peak Wave Period PDF: 1979 - 2015



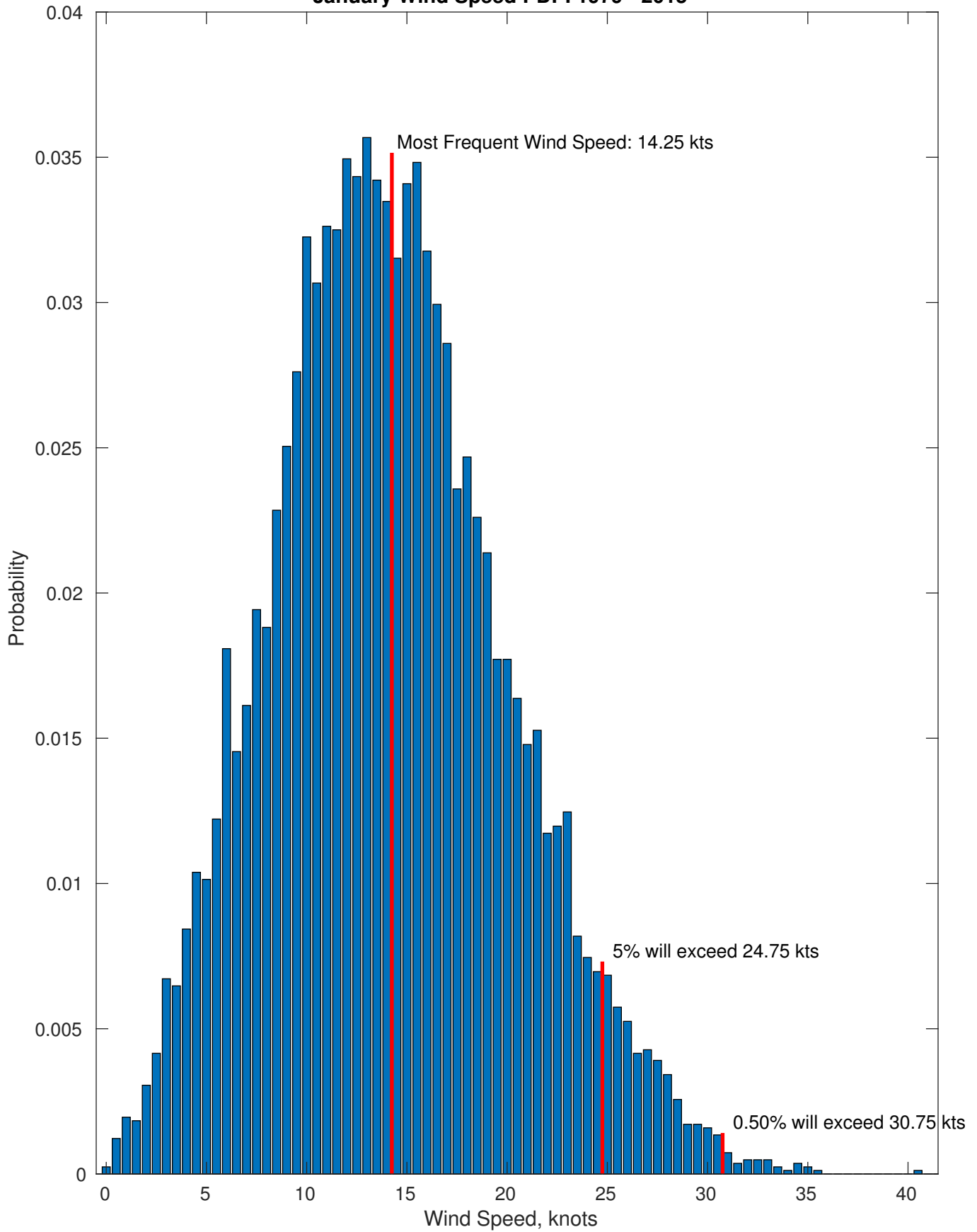
Wind-Sea: 54.25%



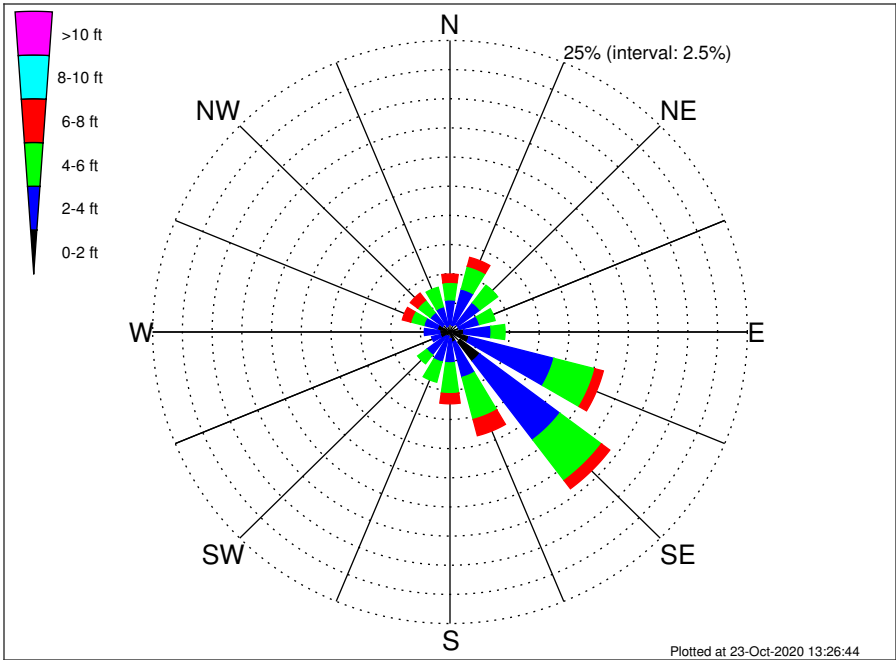
Swell: 45.75%



January Wind Speed PDF: 1979 - 2015



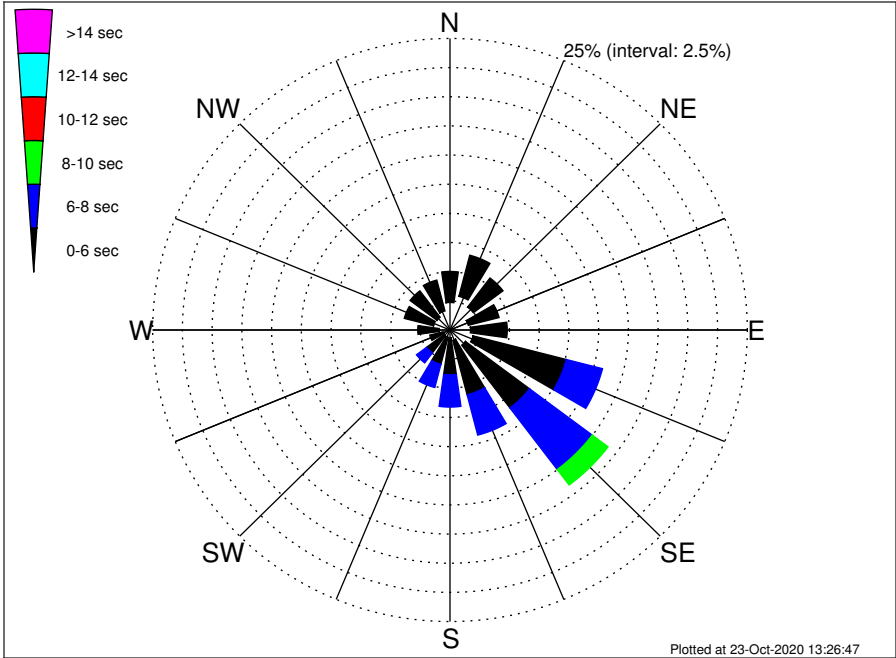
SpaceX GOM Launch Platform Climatological WaveHeight Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.11	0.15	0.21	0.18	0.33	0.37	1.08	0.13	0.05	0.02	0.01	0.18	0.22	0.38	0.23	0.18	3.84
1 - 2 ft	0.56	0.48	0.61	0.62	0.83	1.28	2.04	0.76	0.55	0.37	0.46	0.66	0.65	0.72	0.56	0.34	11.50
2 - 4 ft	2.09	3.19	2.33	1.76	2.30	7.38	8.46	3.13	2.05	2.27	1.98	0.76	1.30	1.19	1.28	1.71	43.17
4 - 6 ft	1.50	2.02	1.87	1.36	1.17	3.57	4.37	3.73	2.64	1.78	0.95	0.26	0.42	1.14	1.33	1.72	29.83
6 - 8 ft	0.71	0.78	0.51	0.31	0.20	0.72	0.88	1.44	0.87	0.50	0.12	0.17	0.42	0.72	0.77	0.45	9.57
8 - 10 ft	0.05	0.01	0.04	0.04	•	0.05	0.10	0.35	0.43	0.16	•	0.05	0.28	0.20	0.05	0.01	1.81
10 - 12 ft	0.01	•	0.01	•	•	0.02	0.01	0.07	0.13	•	•	•	0.01	•	•	•	0.28
12 - 14 ft	•	•	•	•	•	•	•	•	0.01	•	•	•	•	•	•	•	0.01
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	5.03	6.62	5.58	4.26	4.83	13.39	16.94	9.62	6.73	5.11	3.53	2.08	3.29	4.34	4.23	4.42	100.00

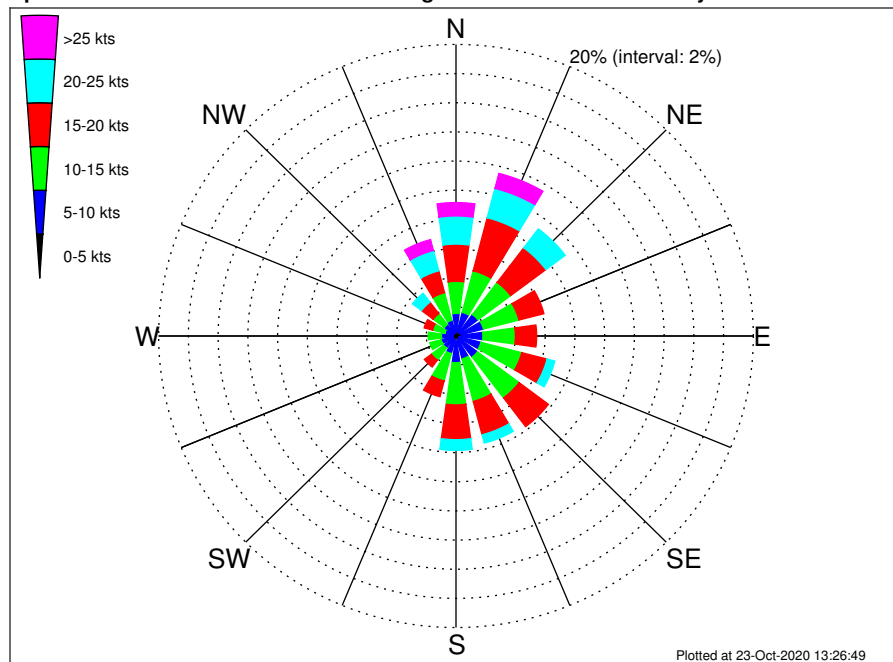
SpaceX GOM Launch Platform Climatological WavePeriod Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	0.01	0.02	0.01	0.01	0.05	0.06	0.02	0.01	0.04	0.01	0.01	0.02	0.01	0.01	•	0.01	0.33
2 - 4 sec	2.35	2.96	2.44	1.58	1.67	1.94	1.60	0.90	0.65	0.64	0.62	0.56	0.90	1.42	1.37	1.67	23.28
4 - 6 sec	2.66	3.64	3.13	2.68	3.09	8.10	6.74	4.83	3.16	2.39	1.83	1.17	1.80	2.54	2.83	2.74	53.35
6 - 8 sec	0.01	•	•	•	0.01	3.14	6.61	3.57	2.76	2.05	1.06	0.32	0.57	0.37	0.02	•	20.50
8 - 10 sec	•	•	•	•	•	0.15	1.66	0.18	0.12	0.01	•	•	•	•	•	•	2.13
10 - 12 sec	•	•	•	•	•	•	0.29	0.09	•	•	•	•	•	•	•	•	0.38
12 - 14 sec	•	•	•	•	•	•	•	0.04	•	•	•	•	•	•	•	•	0.04
14 - 16 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	5.03	6.62	5.58	4.26	4.83	13.39	16.94	9.62	6.73	5.11	3.53	2.08	3.29	4.34	4.23	4.42	100.00

SpaceX GOM Launch Platform Climatological Wind Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	0.02	0.01	0.01	0.01	•	0.01	0.01	0.04	0.01	•	•	•	0.01	•	0.15
0 - 5 kts	0.24	0.33	0.28	0.34	0.38	0.21	0.33	0.27	0.38	0.22	0.23	0.26	0.22	0.22	0.20	0.20	4.30
5 - 10 kts	1.31	1.34	1.54	1.55	1.42	1.52	1.48	1.34	1.44	0.99	0.79	0.77	0.76	0.55	0.77	0.92	18.49
10 - 15 kts	2.20	2.94	2.76	2.47	2.19	2.83	3.51	3.01	2.90	1.94	1.04	0.79	0.89	0.86	0.94	1.96	33.22
15 - 20 kts	2.55	3.76	2.97	1.74	1.43	1.76	2.47	2.37	2.38	1.11	0.59	0.31	0.35	0.59	0.99	1.55	26.92
20 - 25 kts	1.93	2.08	1.63	0.48	0.43	0.54	0.43	0.59	0.73	0.32	0.12	0.07	0.32	0.44	0.76	1.44	12.29
25 - 30 kts	0.79	0.99	0.39	0.10	0.06	0.05	0.04	0.12	0.10	0.01	•	0.01	0.02	0.24	0.34	0.68	3.96
30 - 35 kts	0.11	0.07	0.05	0.07	•	0.01	0.01	•	0.04	•	•	•	•	0.07	0.10	0.09	0.62
35 - 40 kts	•	•	•	•	•	0.01	•	0.02	•	•	•	•	•	•	•	•	0.04
40 - 45 kts	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	9.15	11.52	9.64	6.76	5.91	6.94	8.26	7.73	7.98	4.63	2.79	2.21	2.57	2.97	4.11	6.83	100.00