

Sandpiper Marine Phosphate Project Namibia - January

Latitude: 24.00 S Longitude: 13.40 E

Weather Days

Wave Height > 6.0 ft Mean: 18.2 days Range: 15.4 - 21.1 days p50:26 days p75:23 days p90:20.5 days

Wave Height > 7.0 ft Mean: 13.3 days Range: 9.1 - 17.5 days p50:19.5 days p75:17 days p90:14.5 days

Wave Height > 8.0 ft Mean: 9.0 days Range: 4.8 - 13.2 days p50:14 days p75:11 days p90:9.5 days

Wind Speed > 10.0 knots Mean: 21.6 days Range: 18.0 - 25.2 days p50:23 days p75:19 days p90:17 days

Wind Speed > 15.0 knots Mean: 12.5 days Range: 8.7 - 16.4 days p50:12 days p75:9.5 days p90:8 days

Wind Speed > 20.0 knots Mean: 3.5 days Range: 1.1 - 5.8 days p50:3 days p75:2 days p90:1 days

Working Window

Wave Height < 6.0 ft
A 1 day or longer window will statistically occur 1.8 times per month
A 2 day or longer window will statistically occur 0.7 times per month
A 3 day or longer window will statistically occur 0.4 times per month

Wave Height < 7.0 ft
A 1 day or longer window will statistically occur 3.2 times per month
A 2 day or longer window will statistically occur 2.0 times per month
A 3 day or longer window will statistically occur 0.8 times per month

Wave Height < 8.0 ft
A 1 day or longer window will statistically occur 4.2 times per month
A 2 day or longer window will statistically occur 3.1 times per month
A 3 day or longer window will statistically occur 1.9 times per month

Waves

Mean Height: 6 - 8 ft

The wave heights will occasionally reach 14 - 16 ft, but rarely higher.

Mean Period: 10 - 12 sec

The wave periods will occasionally reach 18 - 20 sec, but rarely longer.

Principle Direction, from: SW

WindSea/Swell: 9% / 91%

Winds

Mean Speed: 10 - 15 kts

The winds will occasionally reach 25 - 30 kts, but rarely greater.

Principle Direction, from: S

Severe Storms

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