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# Attachment 8 – Seasonal Analysis, Windtech

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Blackwattle Bay

Response to Submissions

June 2022



Doc Ref: WD758-20F02(rev2)- Seasonal Analysis

Date: June 20, 2022

To: Infrastructure NSW (INSW)

Address: Level 27, 201 Kent Street, Sydney NSW 2000

RE: BLACKWATTLE BAY MASTERPLAN, SYDNEY  
SEASONAL ANALYSIS

## 1 INTRODUCTION

This letter is in relation to the seasonal/time of day analysis undertaken for the Blackwattle Bay masterplan, Sydney. Selected study point locations were analysed with respect to the Draft Sydney Development Control Plan 2012 - Central Sydney Planning Review Amendment.

The seasonal analysis was carried out for 3-hour intervals for each month for the proposed masterplan wind tunnel results, provided in the Pedestrian Wind Environment report (Doc. Ref.: WD758-22F01 (rev0)- WE Report, dated June 9, 2022).

These calculations were based on a detailed statistical analysis of observed wind speed data obtained from the meteorological recording station located at Kingsford Smith Airport (Sydney Airport), as outlined in the above report.

## 2 STUDY POINT LOCATIONS

Study point numbering in this technical memo are consistent with the pedestrian wind environment report, (referenced above in Section 1). The study points layouts below in Figure 1 for ease of reference. A total of 40 study points representing key locations within and around the masterplan were selected for seasonal analysis. These were P03, P05, P06, P13, P14, P17, P19, P26, P27, P28, P29, P30, P38, P39, P40, P41, P42, P43, P46, P47, P48, P49, P50, P55, P56, P57, P58, P59, P60, P61, P62, P63, P68, P73, P75, P76, P77, P78, P79 and P81.

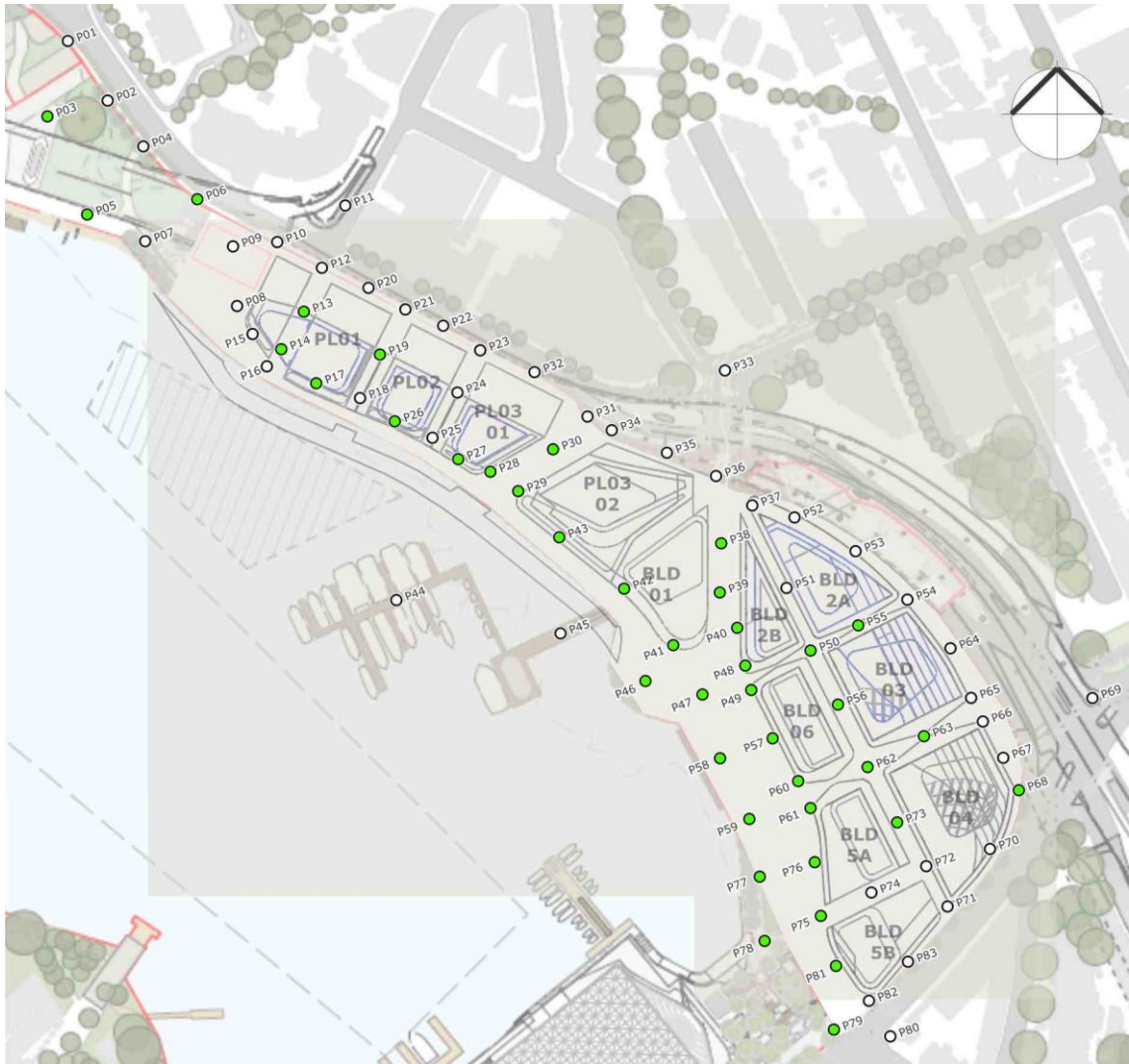


Figure 1: Study Point Locations (with points selected for seasonal analysis highlighted green)

### 3 ANALYSIS AND RESULTS

Each study point is assigned a "comfort level" based on the results of the analysis. This level is described below in Table 1. The comfort level is calculated for each month in 3-hourly intervals, starting at 12am.

Table 1: Legend: Description of Wind Comfort Criteria

Abbreviation	Criteria	Classification as per the Draft Sydney DCP 2012	Wind Speed (m/s)
LE	Long Exposure	Sitting	4 (at 5% exceedance)
SE	Short Exposure	Standing	6 (at 5% exceedance)
CW	Comfortable Walking	Walking	8 (at 5% exceedance)
EC(<2)	Exceeds CW Criteria (by < 2m/s)	-	-
EC(>2)	Exceeds CW Criteria (by > 2m/s)	-	-

The results of the analysis are comparable to the results of the pedestrian wind environment study in that each of the study point locations show suitable wind conditions for comfortable walking (at the very least) for the whole year. Some study point locations show exceedances in the comfortable walking criterion for particular times of the year however, it should be noted that that annual average is within the 5% probability of exceedance as stipulated in the Draft Sydney Development Control Plan 2012 - Central Sydney Planning Review Amendment (detailed in the pedestrian wind environment report).

In general, the result of the seasonal analysis show that the wind speeds are generally lower during the cooler months of the year at the various selected outdoor locations. The calmer winds during the cooler months of the year reduces the chill factor, presenting a more comfortable environment for outdoor activities. For these cooler months of the year, the morning periods consistently offer calmer wind conditions in comparison to that of the afternoon.

The results of this assessment for two locations are presented in this section, as examples on how to interpret the results. The complete results of the assessment for all selected study point locations are presented in Appendix A.

Study Point 19 (refer to Table 2a) is located between PL01 and PL02, and satisfies the walking comfort criterion from morning until noon throughout the year, with the afternoon and evening sometimes exceeding the pedestrian walking criterion. The highest exceedances are within the summer months, which is expected due to the waterfront location, and generally more acceptable to users of the space due to as it would provide a cooling effect. Note that these results are without the effect of any vegetation, and its inclusion throughout the precinct is expected to significantly improve the wind conditions.

Table 2a: Study Point 19 – Monthly and 3 Hourly Results

Time	Davenport Criteria Analysis (95%)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)
6pm - 9pm	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	CW

Another example is Study Point 50 (refer to Table 2b), which is located at the corners of BLD 2A, BLD 2B, BLD 03 and BLD 06. The summer months have lower wind speeds in the early morning suitable for short duration stationary activities. This then transitions to comfortable walking at noon, and then uncomfortable later in the afternoon and evening. However, during the cooler months, when pedestrians are more sensitive to windy conditions, the wind speeds remain suitable for pedestrian walking activities. As previously mentioned, with the provision of landscaping, the conditions are expected to improve

Table 2b: Study Point 50 – Monthly and 3 Hourly Results

Time	Davenport Criteria Analysis (95%)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	SE	SE	SE	SE	SE	SE	CW	SE	SE	CW
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(>2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	CW	SE	SE	CW	CW	CW	CW	CW	CW	EC(<2)

# DOCUMENT CONTROL

Date	Revision History	Issued Revision	Prepared By (initials)	Instructed By (initials)	Reviewed & Authorised by (initials)
June 17, 2022	Initial.	0	HK	TR	NT
June 17, 2022	Updated Appendix A	1	HK	TR	NT
June 20, 2022	Updated Analysis and results	2	HK	TR	NT/EV

The work presented in this document was carried out in accordance with the Windtech Consultants Quality Assurance System, which is based on International Standard ISO 9001.

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# APPENDIX A - SEASONAL ANALYSIS RESULTS

Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW
12pm - 3pm	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(<2)	EC(<2)	CW
3pm - 6pm	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	CW	CW	CW	CW	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	CW	EC(<2)
9pm - 12am	CW	CW	CW	CW	CW	EC(<2)	CW	CW	CW	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
SE	Short Exposure	6.0
CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
EC(>2)	Exceeds All Comfort Criteria	



Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	CW	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	SE
12pm - 3pm	SE	SE	SE	CW	CW	CW	CW	CW	EC(<2)	CW	CW	CW
3pm - 6pm	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	CW	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW
9pm - 12am	SE	SE	SE	SE	SE	CW	SE	CW	SE	SE	SE	SE

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
SE	Short Exposure	6.0
CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
EC(>2)	Exceeds All Comfort Criteria	

Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
12pm - 3pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	SE
3pm - 6pm	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	CW	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE	CW
9pm - 12am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
SE	Short Exposure	6.0
CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
EC(>2)	Exceeds All Comfort Criteria	

Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW
12pm - 3pm	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	CW

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	SE	CW	SE	SE	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	SE	SE	SE	SE	SE	CW	CW	CW
6am - 9am	CW	CW	CW	CW	SE	SE	CW	SE	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)
6pm - 9pm	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	CW	SE	CW	SE	CW	CW	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	CW	CW	CW	CW	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	CW	CW	CW	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
9am - 12pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW
3pm - 6pm	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW
6pm - 9pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9pm - 12am	CW	SE	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
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12am - 3am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)
6pm - 9pm	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	CW

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12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
12pm - 3pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	SE	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE	CW
9pm - 12am	SE	SE	SE	SE	SE	CW	SE	SE	SE	SE	SE	SE

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	CW	CW	CW	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	CW	CW	CW	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE	SE
9am - 12pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	CW	CW	CW
6pm - 9pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9pm - 12am	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	SE	CW	CW	CW	CW	EC(<2)	CW	CW	CW	SE	CW
3am - 6am	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	SE	SE
6am - 9am	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	SE
9am - 12pm	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(<2)	EC(<2)	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	CW	CW	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
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Time	Month											
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12am - 3am	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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CW	Comfortable Walking	8.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3am - 6am	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6am - 9am	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
9am - 12pm	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
12pm - 3pm	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)	EC(<2)	EC(>2)	EC(>2)	EC(<2)
3pm - 6pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)

Abbreviation	Criteria	Wind Speed (m/s)
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CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
EC(>2)	Exceeds All Comfort Criteria	

Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	SE	SE	CW	CW	CW	CW	CW	SE	CW	CW
3am - 6am	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE	SE	SE
6am - 9am	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)
9pm - 12am	EC(<2)	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	EC(<2)

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
EC(>2)	Exceeds All Comfort Criteria	

Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	SE	CW	CW	CW	CW
6am - 9am	CW	CW	SE	CW	SE	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
SE	Short Exposure	6.0
CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
EC(>2)	Exceeds All Comfort Criteria	

Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	CW	CW
3pm - 6pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	CW	SE	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	CW	SE	CW	CW	CW	CW	CW

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LE	Long Exposure	4.0
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EC(<2)	Exceeds All Comfort Criteria	
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
12pm - 3pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	SE
3pm - 6pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE	SE
9pm - 12am	SE	SE	SE	SE	SE	CW	SE	SE	SE	SE	SE	SE

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LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
12pm - 3pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
3pm - 6pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
6pm - 9pm	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE	SE	SE
9pm - 12am	SE	SE	SE	SE	SE	CW	SE	SE	SE	SE	SE	SE

Abbreviation	Criteria	Wind Speed (m/s)
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
12pm - 3pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	SE
3pm - 6pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	SE	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE	CW
9pm - 12am	SE	SE	SE	SE	SE	CW	SE	SE	SE	SE	SE	SE

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW
12pm - 3pm	EC(<2)	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(<2)	EC(<2)	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW

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LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	CW	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	SE	SE	SE	SE	CW	CW	CW	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	SE	SE	SE	SE	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	SE	SE	SE	SE	CW	SE	SE	SE
12pm - 3pm	CW	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	CW	CW	CW	SE	SE	SE	SE	SE	SE	CW	CW	CW
9pm - 12am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	CW
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	CW	SE	SE	SE	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	CW	SE	SE	SE	SE	CW	CW	CW	CW	EC(<2)

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LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	SE	SE	SE	SE	SE	SE	CW	SE	SE	CW
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(>2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	CW	SE	SE	CW	CW	CW	CW	CW	CW	EC(<2)

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LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	EC(<2)	EC(<2)	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
12pm - 3pm	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
3pm - 6pm	EC(>2)	EC(>2)	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)

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LE	Long Exposure	4.0
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EC(<2)	Exceeds All Comfort Criteria	
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	CW	CW	CW	CW	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE	SE	SE
6am - 9am	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW	SE	SE
9am - 12pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)
9pm - 12am	CW	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW

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LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	LE	SE	LE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	LE	LE	LE	SE	SE	SE	SE	SE	SE	SE	LE	LE
6am - 9am	LE	LE	LE	SE	SE	SE	SE	SE	SE	SE	SE	LE
9am - 12pm	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
12pm - 3pm	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3pm - 6pm	CW	SE	SE	SE	SE	SE	SE	SE	CW	SE	SE	CW
6pm - 9pm	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9pm - 12am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE

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LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE
12pm - 3pm	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	SE	SE	SE	SE	CW	CW	CW	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	SE	SE	SE	SE	SE	CW	CW

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LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	SE	SE	SE	SE	CW	CW	CW	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	SE	SE	SE	SE	SE	CW	CW

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LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	CW	SE	SE	SE	CW	CW	EC(<2)	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	SE	SE	SE	CW	CW	CW	CW

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	SE	LE	LE	LE	LE	SE	SE	SE	SE	CW
3am - 6am	SE	SE	SE	LE	LE	LE	LE	LE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	LE	LE	LE	LE	LE	LE	SE	SE	SE
9am - 12pm	EC(<2)	CW	CW	SE	LE	LE	LE	LE	CW	CW	CW	CW
12pm - 3pm	EC(>2)	EC(<2)	EC(<2)	CW	SE	SE	LE	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)
3pm - 6pm	EC(>2)	EC(>2)	EC(>2)	EC(<2)	CW	SE	SE	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(>2)	CW	SE	SE	SE	CW	EC(<2)	EC(>2)	EC(>2)	EC(>2)
9pm - 12am	EC(>2)	EC(<2)	EC(<2)	SE	LE	SE	LE	SE	CW	CW	EC(<2)	EC(<2)

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LE	Long Exposure	4.0
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12am - 3am	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
12pm - 3pm	EC(>2)	EC(<2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
3pm - 6pm	EC(>2)	EC(>2)	EC(>2)	EC(<2)	EC(<2)	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(>2)	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)

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LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	CW	EC(<2)	EC(<2)	CW	CW
9am - 12pm	EC(<2)	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
12pm - 3pm	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
3pm - 6pm	EC(>2)	EC(>2)	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
9pm - 12am	EC(<2)	EC(<2)	EC(<2)	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3am - 6am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
6am - 9am	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
9am - 12pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)
12pm - 3pm	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	EC(<2)	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
3pm - 6pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	EC(<2)	EC(>2)	EC(>2)	EC(>2)	EC(>2)
6pm - 9pm	EC(>2)	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	EC(<2)	EC(<2)	EC(>2)	EC(>2)	EC(>2)
9pm - 12am	EC(>2)	EC(<2)	EC(<2)	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)

Abbreviation	Criteria	Wind Speed (m/s)
LE	Long Exposure	4.0
SE	Short Exposure	6.0
CW	Comfortable Walking	8.0
EC(<2)	Exceeds All Comfort Criteria	
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Time	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12am - 3am	SE	SE	SE	SE	SE	CW	CW	CW	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	CW	CW	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE	SE
9am - 12pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	SE
12pm - 3pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	CW	CW	CW
6pm - 9pm	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
9pm - 12am	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	SE	SE

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12am - 3am	SE	SE	CW	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	CW	EC(<2)
6pm - 9pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	CW	SE	CW	CW	CW	CW	CW

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12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	LE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	SE	SE	CW	CW	CW	SE	SE	SE
12pm - 3pm	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	CW	CW	CW	SE	SE	SE	SE	CW	CW	CW	CW	CW
9pm - 12am	CW	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	CW

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12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	CW	SE	SE	SE	SE	SE	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	EC(<2)	CW	CW	CW	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	EC(<2)	EC(<2)	CW	CW	SE	SE	SE	CW	CW	CW	EC(<2)	EC(<2)
9pm - 12am	CW	CW	CW	SE	SE	SE	SE	SE	SE	CW	CW	CW

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12am - 3am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
9am - 12pm	SE	SE	SE	SE	SE	SE	CW	CW	CW	CW	SE	SE
12pm - 3pm	CW	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
3pm - 6pm	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
6pm - 9pm	CW	CW	CW	SE	SE	SE	SE	SE	CW	CW	CW	CW
9pm - 12am	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	CW

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12am - 3am	SE	SE	SE	SE	SE	CW	SE	CW	SE	SE	SE	SE
3am - 6am	SE	SE	SE	SE	SE	CW	SE	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	CW	CW	SE	CW	SE	SE	SE
9am - 12pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	CW
12pm - 3pm	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW
3pm - 6pm	EC(<2)	CW	CW	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)
6pm - 9pm	CW	CW	CW	SE	CW	CW	CW	CW	CW	CW	CW	CW
9pm - 12am	CW	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW

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3am - 6am	SE	SE	SE	SE	SE	CW	CW	SE	SE	SE	SE	SE
6am - 9am	SE	SE	SE	SE	SE	CW	CW	CW	CW	SE	SE	SE
9am - 12pm	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW	SE
12pm - 3pm	SE	SE	SE	CW	CW	EC(<2)	EC(<2)	EC(<2)	EC(<2)	EC(<2)	CW	CW
3pm - 6pm	CW	CW	SE	CW	CW	CW	EC(<2)	EC(<2)	EC(<2)	CW	CW	CW
6pm - 9pm	CW	SE	SE	SE	CW	CW	CW	CW	CW	CW	CW	CW
9pm - 12am	SE	SE	SE	SE	SE	CW	CW	CW	CW	SE	SE	SE

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