

Ground Level Particulate Notification Report - 11 June, 2026

Adelaide Brighton Cement, Birkenhead Works
62 Elder Road, Birkenhead, SA 501
EPA Licence No: 1126

Summary

The 24-hour average particulate matter monitoring data collected at the Community Park and Walton Street BAM monitoring sites during 11 June, 2026 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM₁₀ concentration measured at Community Park BAM of 53.3 µg/m³ exceeded the EPP Air criterion of 50 µg/m³

Table 1: Monitoring Summary

Monitoring Location	Pollutant	24-hour average (µg/m ³)	EPP Air Criterion (µg/m ³)
Community Park BAM	PM ₁₀	53.3	50
	PM _{2.5}	11.0	25
Walton Street	PM ₁₀	37.2	50
	PM _{2.5}	11.0	25

Elevated dust levels in the Adelaide air shed were blown in an Easterly direction across the site, for most of the day. These winds picked up dust from the site operations which contributed to about 20% of the measured dust levels in the community to the west of the site. This resulted in the 24-hour average PM₁₀ concentration measured at Community Park of 53.3 µg/m³ which exceeded the EPP Air criterion of 50.0 µg/m³. An increase in wind speed and air temperature about 11am helped reduce particulate loading in the local airshed.

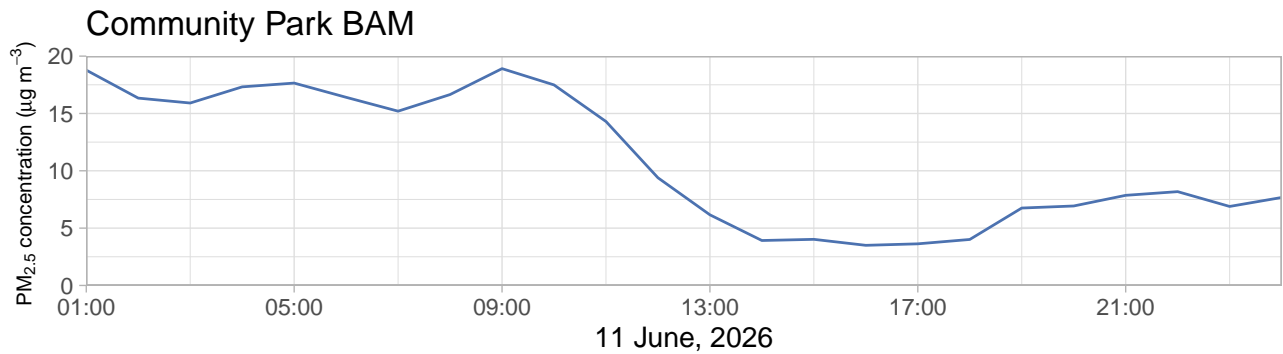
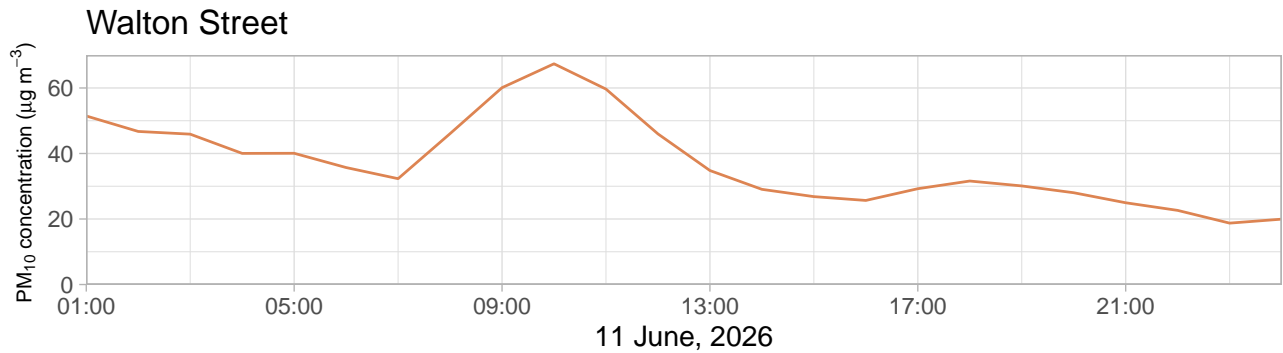
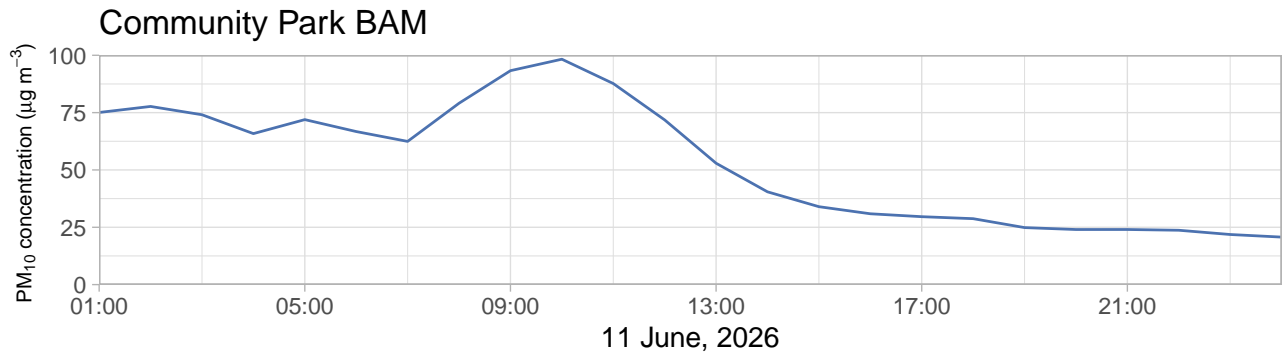
Community Monitoring

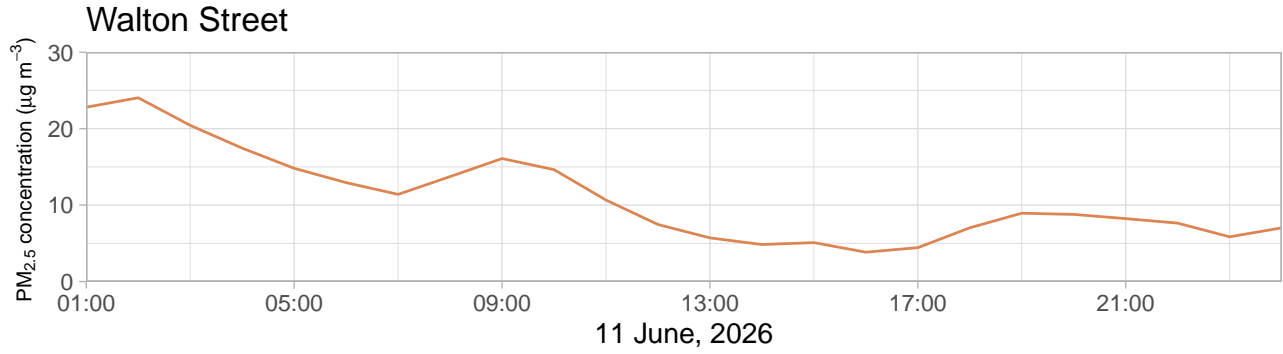
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM₁₀ and PM_{2.5} measured at each monitor, according to the average wind direction at the time of monitoring.

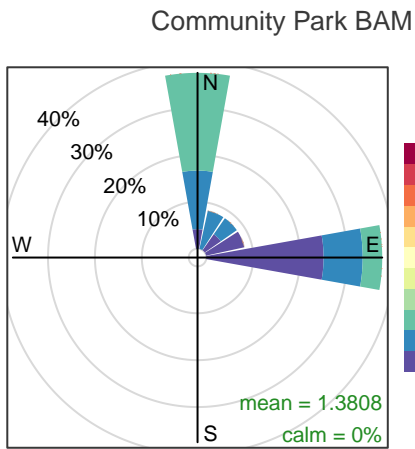
Monitoring Location	Direction	PM ₁₀ proportion (%)	PM _{2.5} proportion (%)
Community Park BAM	From direction of ABC (WD < 180)	87	93
Community Park BAM	From other direction (WD > 180)	13	7
Walton Street	From direction of ABC (WD < 180)	100	100

The figures below show the time series of 1-hour average measurements throughout 11 June, 2026

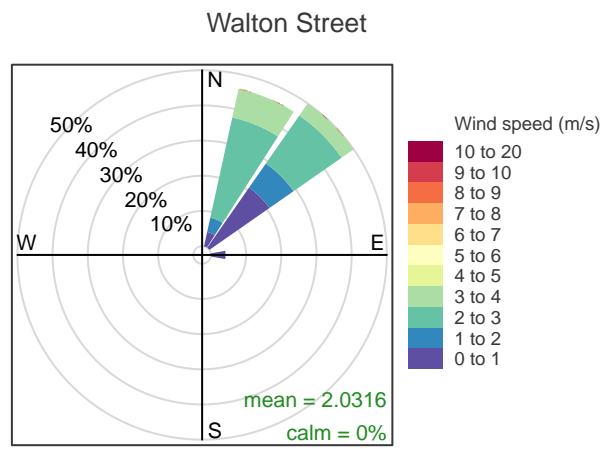




The figures below show wind roses summarising the period 11 June, 2026.



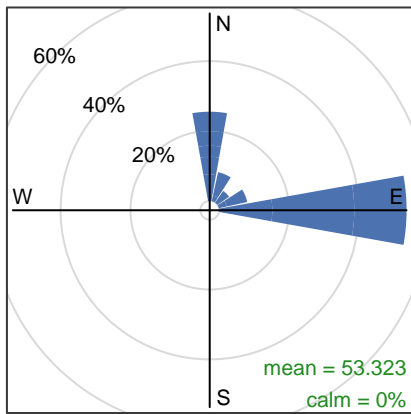
Frequency of counts by wind direction (%)



Frequency of counts by wind direction (%)

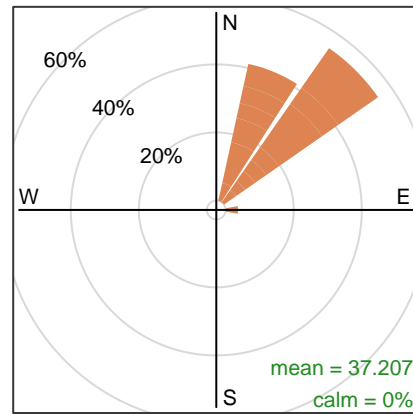
The figures below show dust roses summarising the period 11 June, 2026

Community Park BAM – PM₁₀



Proportion contribution to the mean (%)

Walton Street – PM₁₀



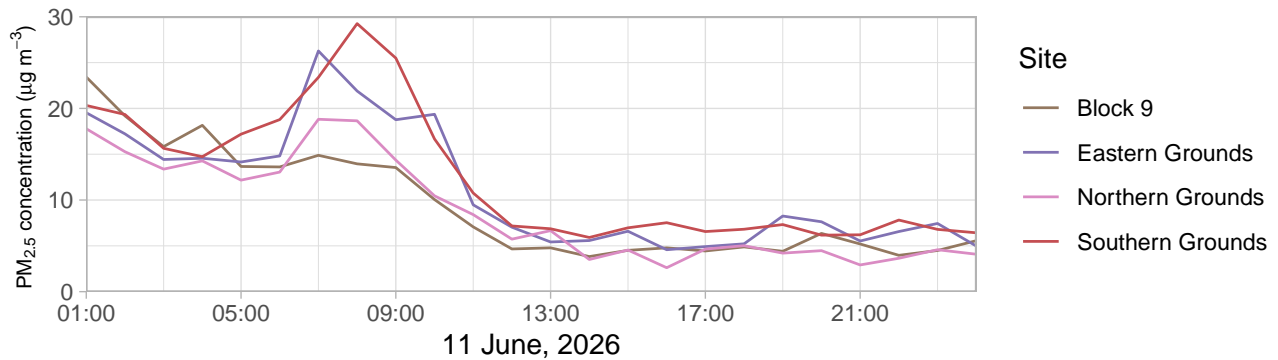
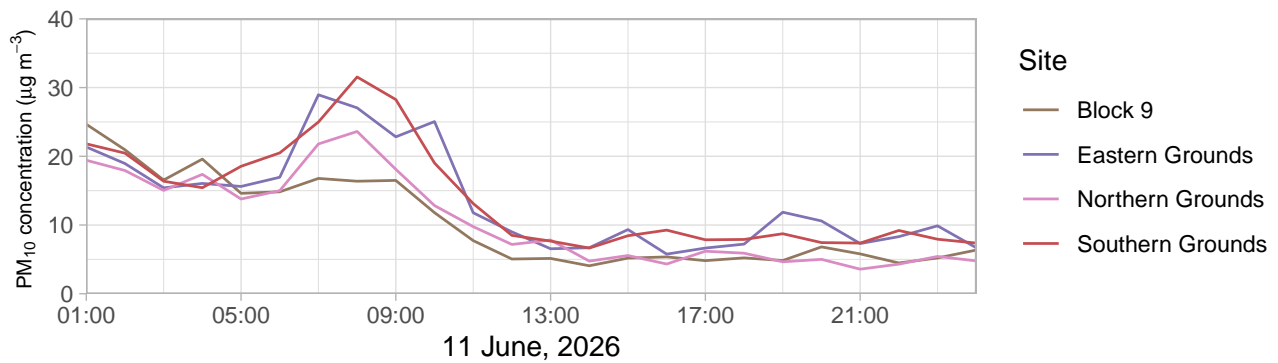
Proportion contribution to the mean (%)

Onsite Monitoring

Monitoring data collected at ABC's onsite monitors is presented in this section. The table below shows the 24-hour average concentrations measured at the onsite monitors.

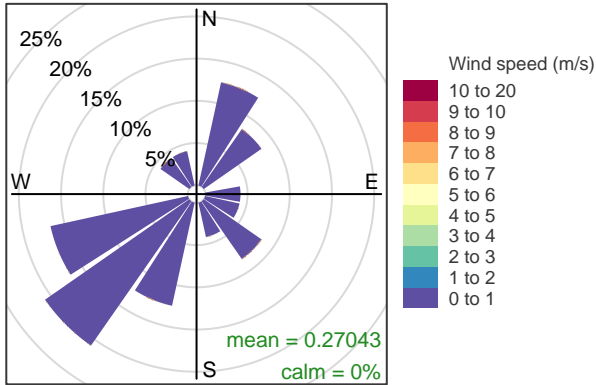
Monitoring Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
Southern Grounds	14	13
Eastern Grounds	14	11
Block 9	10	9
Northern Grounds	11	9

The figure below shows the time series of 1-hour average measurements throughout 11 June, 2026 for each onsite monitor.



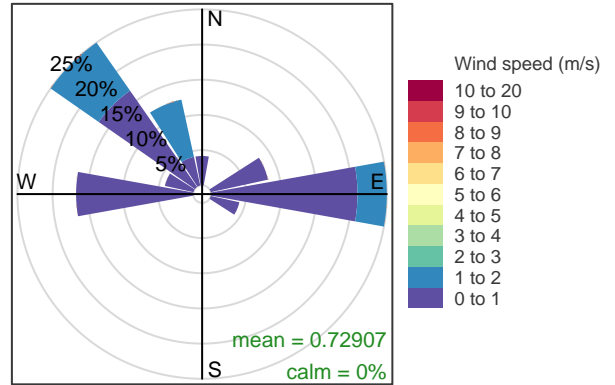
The figures below show wind and dust roses summarising the period 11 June, 2026 for each onsite monitor.

Southern Grounds



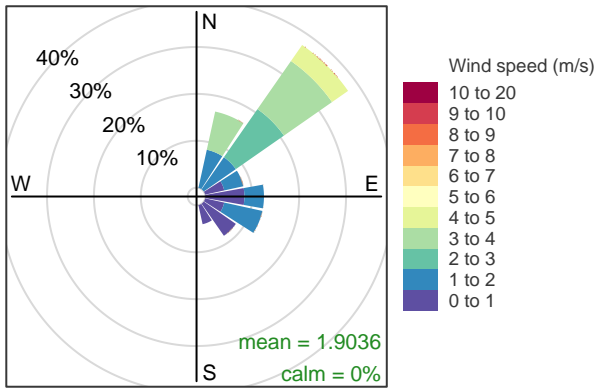
Frequency of counts by wind direction (%)

Eastern Grounds



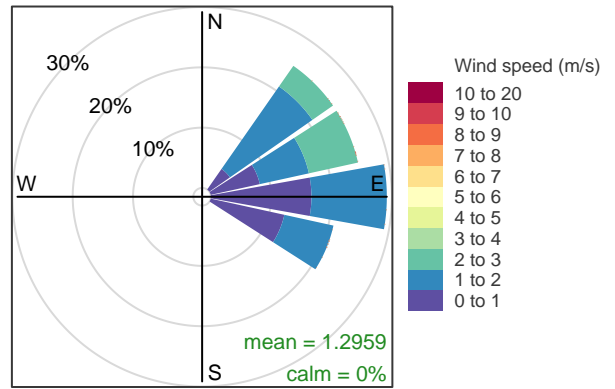
Frequency of counts by wind direction (%)

Block 9



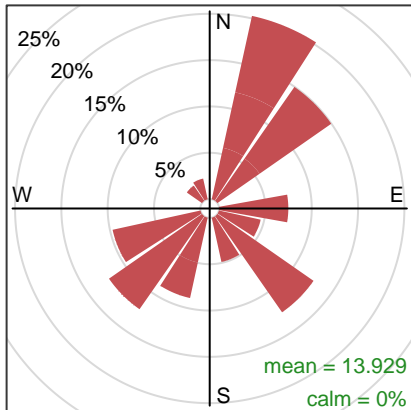
Frequency of counts by wind direction (%)

Northern Grounds

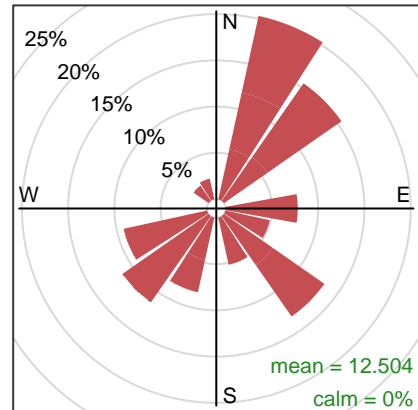


Frequency of counts by wind direction (%)

Southern Grounds – PM₁₀



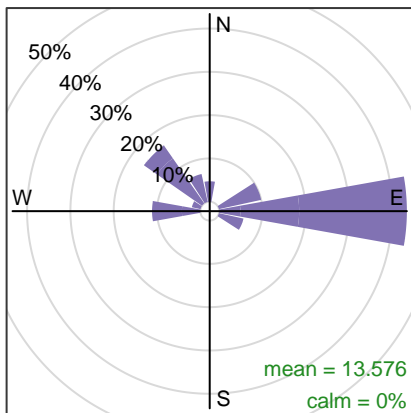
Southern Grounds – PM_{2.5}



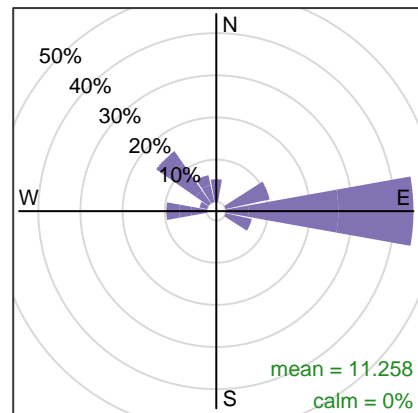
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Eastern Grounds – PM₁₀



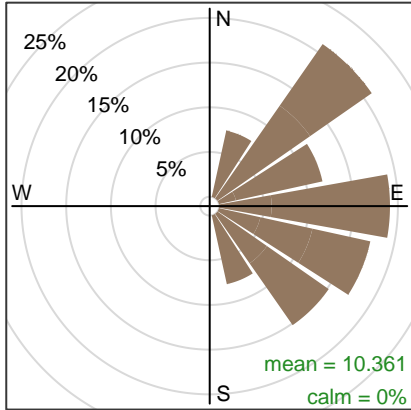
Eastern Grounds – PM_{2.5}



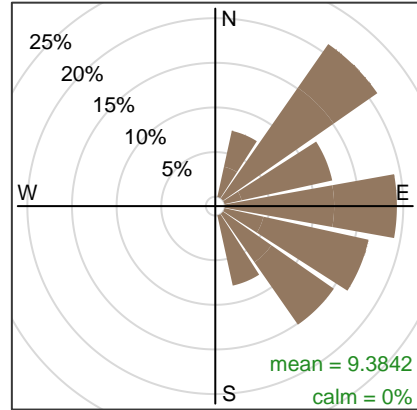
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 – PM₁₀



Block 9 – PM_{2.5}

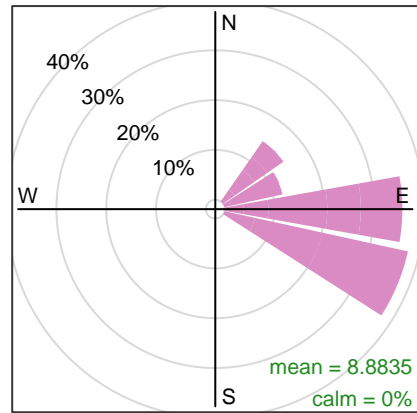
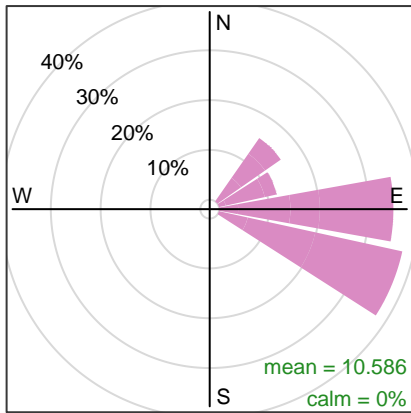


Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Northern Grounds – PM₁₀

Northern Grounds – PM_{2.5}



Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

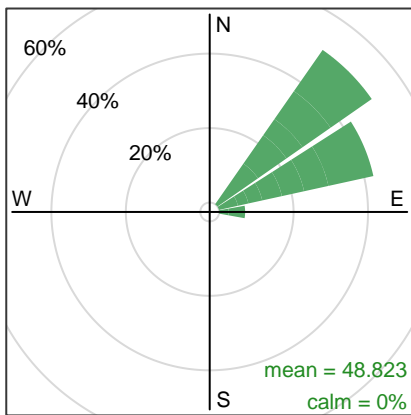
EPA Monitoring

The 24-hour average PM₁₀ and PM_{2.5} concentrations measured at the EPA monitoring sites are shown in the table below. Note that the data has not been validated.

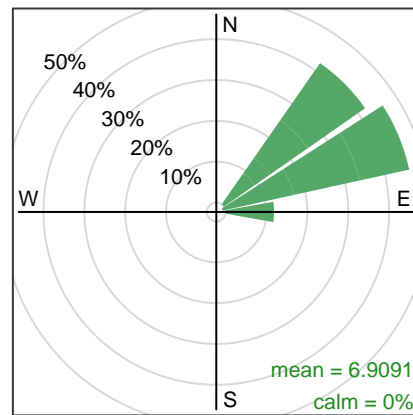
Site	Region	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
CBD	Adelaide CBD	12	5
Christies	Southern Adelaide	18	5
Elizabeth	Northern Adelaide	13	4
Le Fevre 1	Northwestern Adelaide	48	7
Le Fevre 2	Northwestern Adelaide	18	5
Port Pirie Oliver St	Spencer Gulf	15	-
Whyalla Schulz Reserve	Spencer Gulf	18	-
Whyalla Walls St	Spencer Gulf	18	-

The dust roses below show the distribution of PM₁₀ and PM_{2.5} measured at Le Fevre 1 for the period 11 June, 2026 .

Le Fevre 1 – PM₁₀



Le Fevre 1 – PM_{2.5}

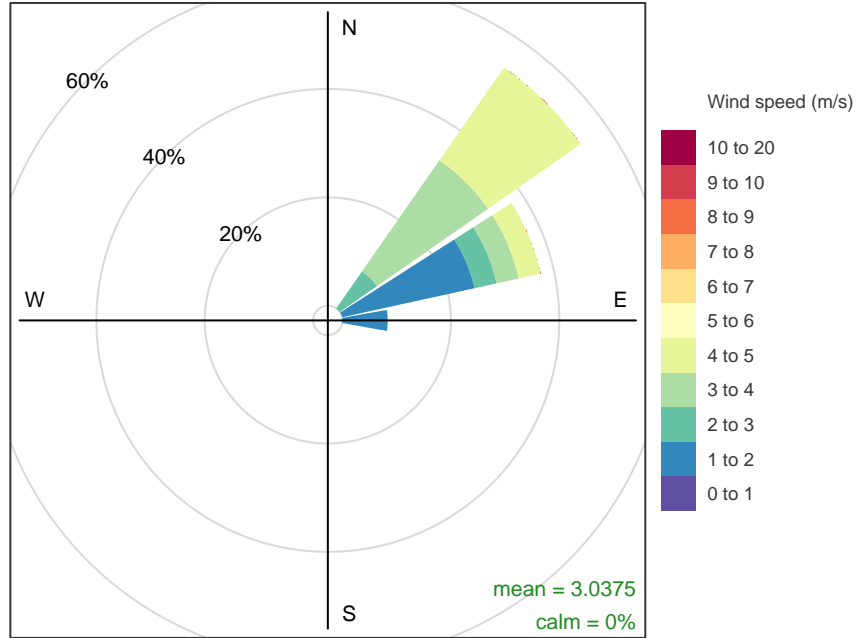


Proportion contribution to the mean (%)

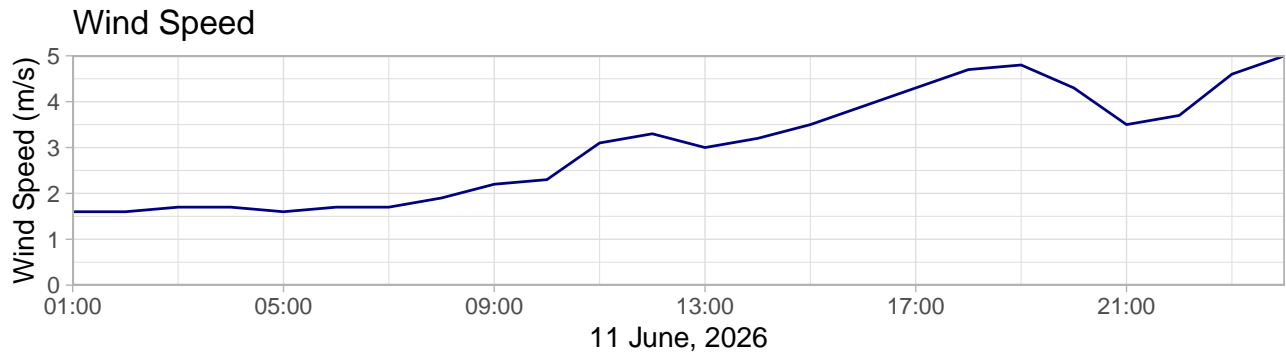
Proportion contribution to the mean (%)

Meteorological Monitoring

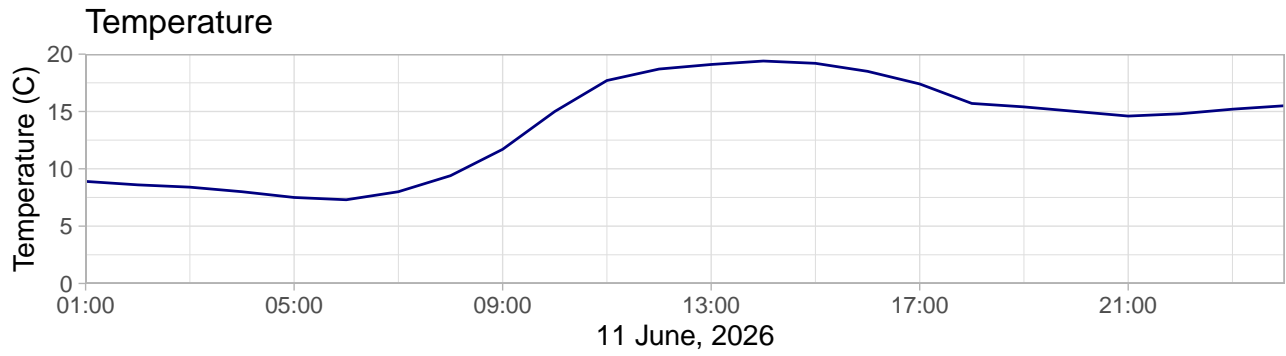
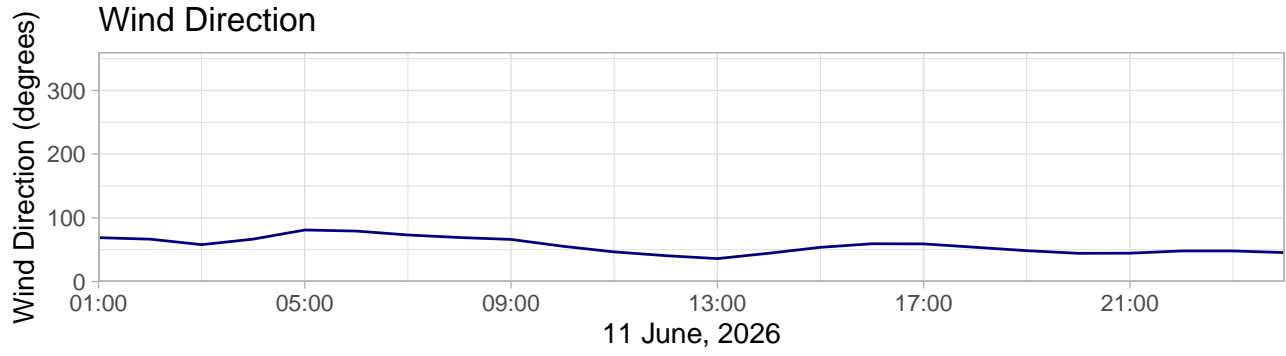
The following figures show meteorological parameters measured¹ throughout the day.



Frequency of counts by wind direction (%)



¹Powered by [Meteomatics](#)



Recent air quality data measured by ABC or EPA is indicative only and may be affected by instruments not working correctly, power failures and the like. Data is published directly from the monitors and will be validated at a later date.