

## Ground Level Particulate Notification Report - 17 December, 2025

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 17 December, 2025 is shown in [Table 1](#) below. The data indicates that:

- The 24-hour average PM<sub>10</sub> concentration measured at Walton Street of 51.3 µg/m<sup>3</sup> exceeded the EPP Air criterion of 50 µg/m<sup>3</sup>

**Table 1: Monitoring Summary**

Monitoring Location	Pollutant	24-hour average (µg/m <sup>3</sup> )	EPP Air Criterion (µg/m <sup>3</sup> )
Community Park BAM	PM <sub>10</sub>	44.0	50
	PM <sub>2.5</sub>	8.9	25
Walton Street	PM <sub>10</sub>	51.3	50
	PM <sub>2.5</sub>	7.7	25

Airshed particulate levels were generally elevated for most of the day, with winds blowing towards the plant for about 65% of the day. Plant activities were investigated and there was no significant contribution to the already elevated particulate levels in the air shed. Monthly service was performed on both Community Park & Walton Street monitoring stations, during the day. When this occurs, there is no data while the units are offline, & when returned to service the instruments readings are invalid for 4-6 hours until the air-conditioned enclosure and instruments reach stable temperature conditions. Monitoring data is only validated after the end of the month which means the invalid particulate readings are included in the 24-hr reporting period.

Removal of invalid monitoring data would result in no 24hr PM10 exceedance.

## Community Monitoring

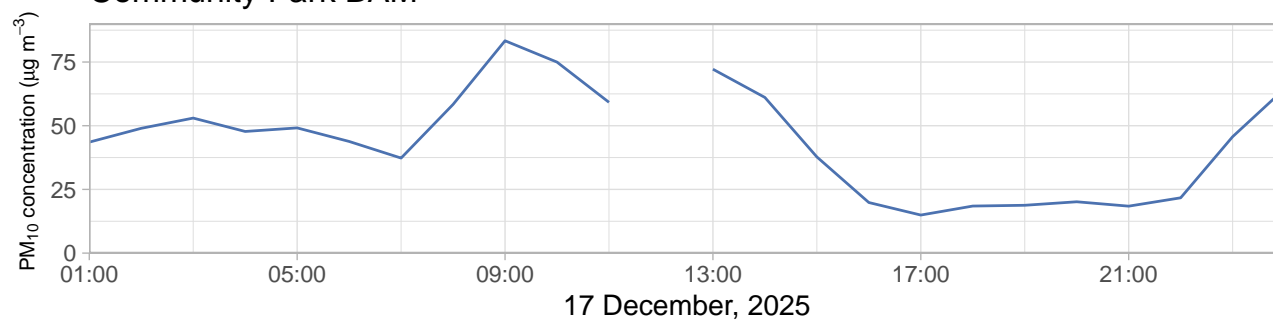
Monitoring data collected at the community monitoring sites is presented in this section.

The table below shows the proportion of PM<sub>10</sub> and PM<sub>2.5</sub> measured at each monitor, according to the average wind direction at the time of monitoring.

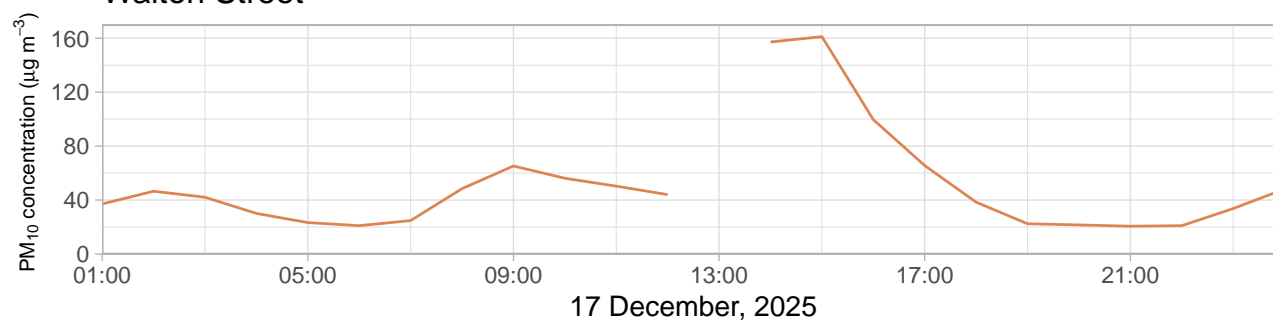
Monitoring Location	Direction	PM <sub>10</sub> proportion (%)	PM <sub>2.5</sub> proportion (%)
Community Park BAM	From direction of ABC (WD < 180)	44	53
Community Park BAM	From other direction (WD > 180)	56	47
Walton Street	From direction of ABC (WD < 180)	35	59
Walton Street	From other direction (WD > 180)	65	41

The figures below show the time series of 1-hour average measurements throughout 17 December, 2025

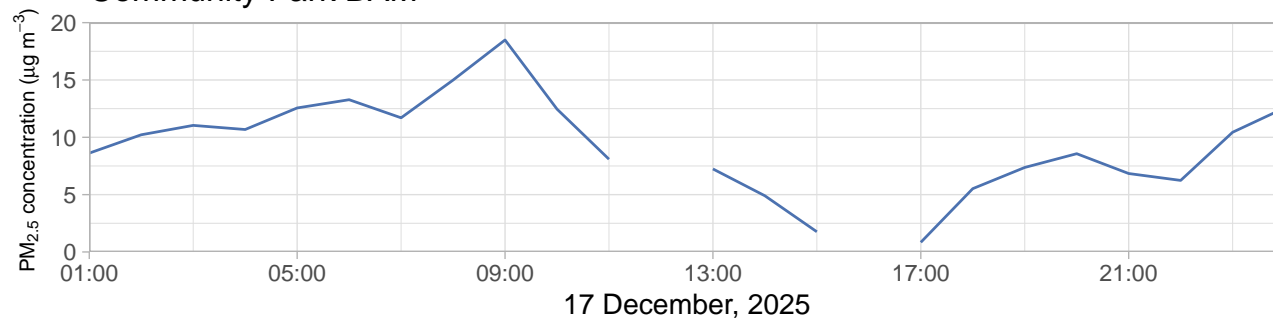
### Community Park BAM

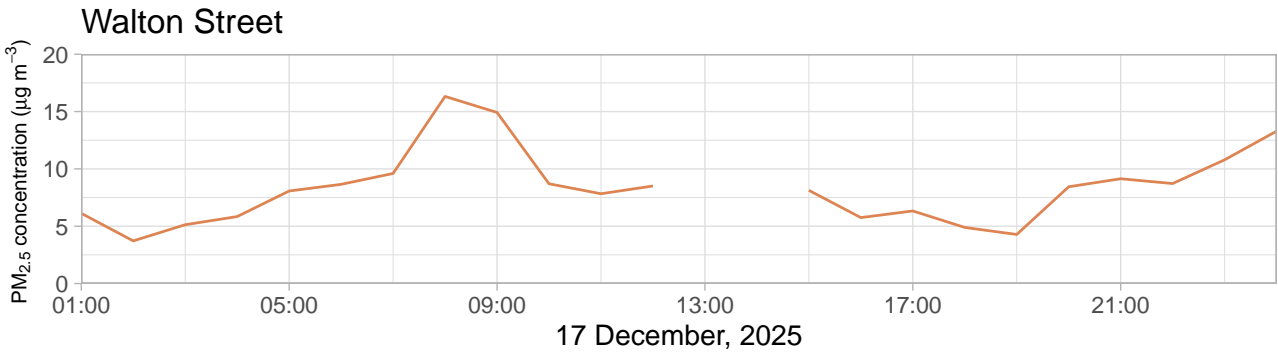


### Walton Street



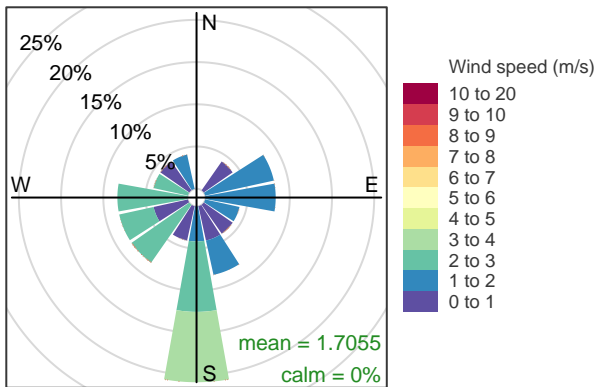
### Community Park BAM





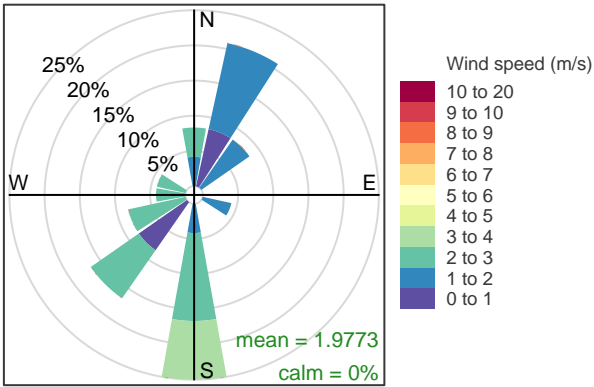
The figures below show wind roses summarising the period 17 December, 2025.

Community Park BAM



Frequency of counts by wind direction (%)

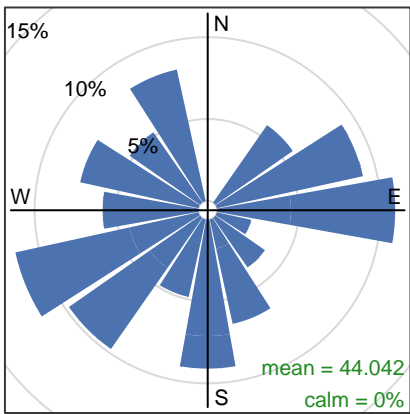
Walton Street



Frequency of counts by wind direction (%)

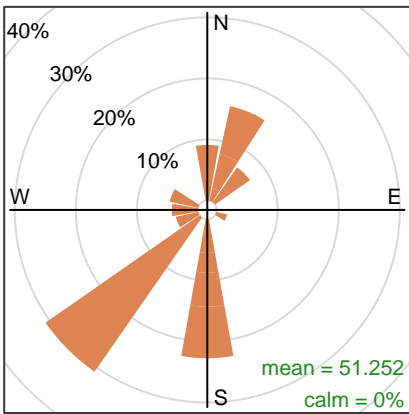
The figures below show dust roses summarising the period 17 December, 2025

Community Park BAM – PM<sub>10</sub>



Proportion contribution to the mean (%)

Walton Street – PM<sub>10</sub>



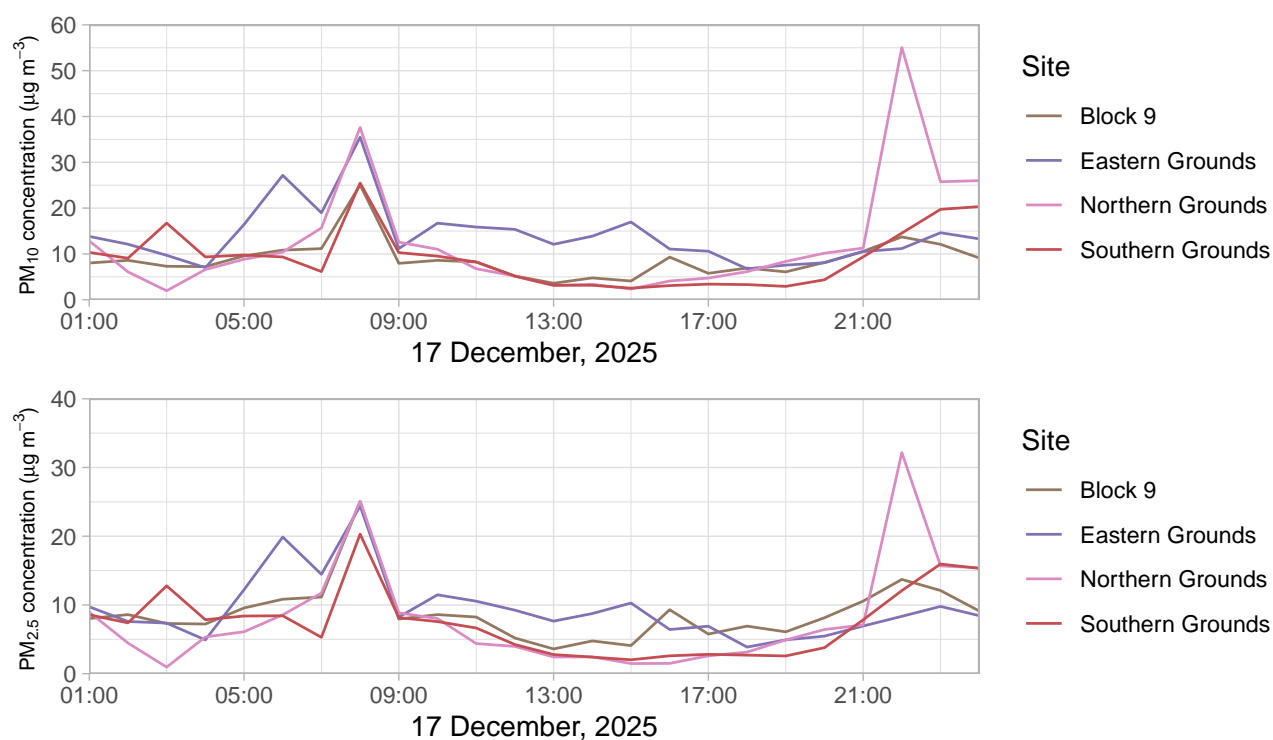
Proportion contribution to the mean (%)

## 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.

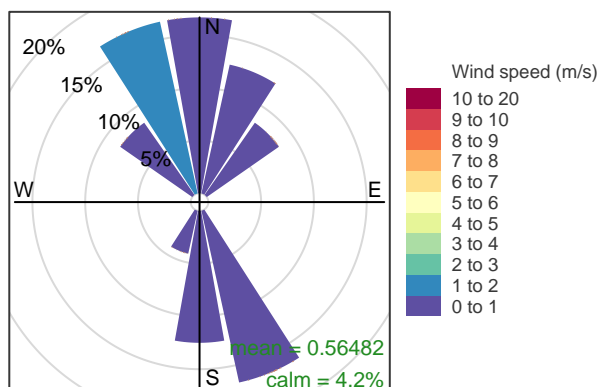
Monitoring Location	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )
Southern Grounds	9	7
Eastern Grounds	14	9
Block 9	9	9
Northern Grounds	12	8

The figure below shows the time series of 1-hour average measurements throughout 17 December, 2025 for each onsite monitor.



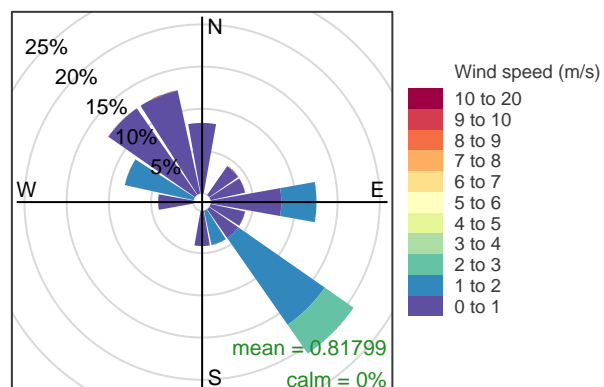
The figures below show wind and dust roses summarising the period 17 December, 2025 for each onsite monitor.

Southern Grounds



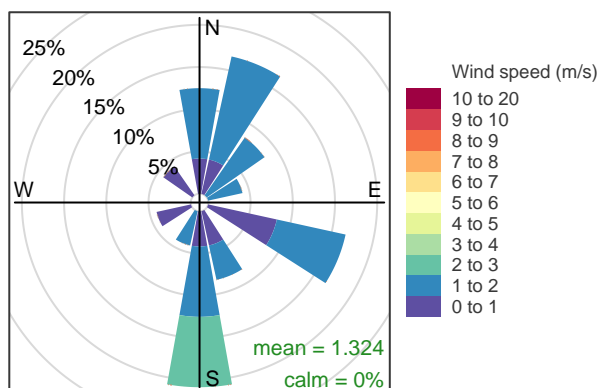
Frequency of counts by wind direction (%)

Eastern Grounds



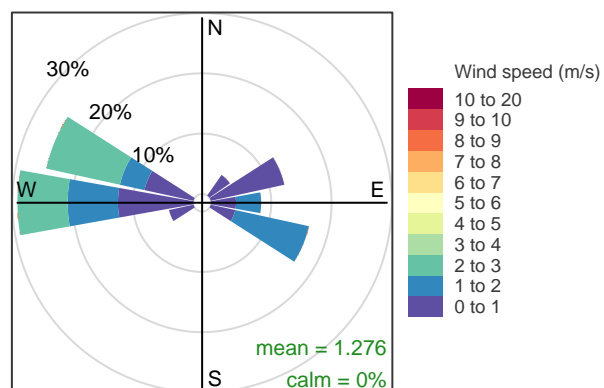
Frequency of counts by wind direction (%)

Block 9



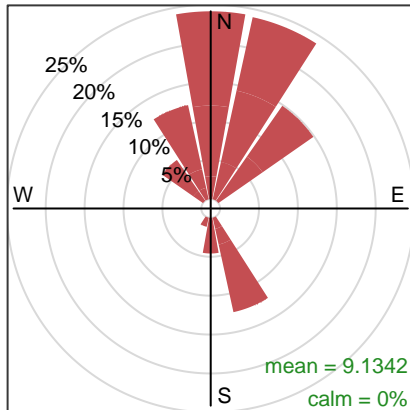
Frequency of counts by wind direction (%)

Northern Grounds

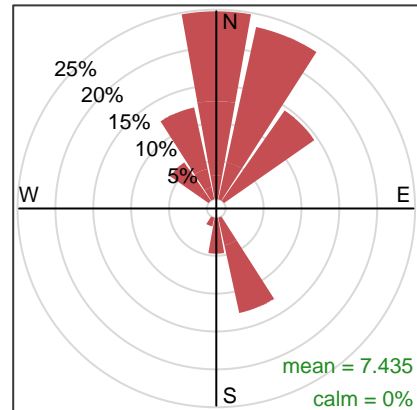


Frequency of counts by wind direction (%)

Southern Grounds – PM<sub>10</sub>



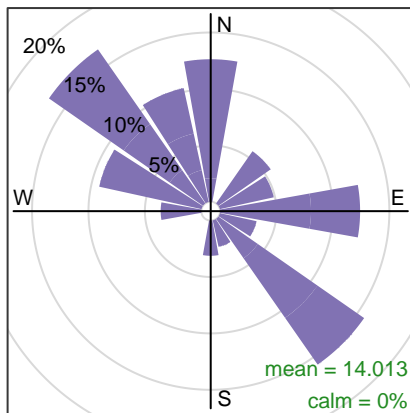
Southern Grounds – PM<sub>2.5</sub>



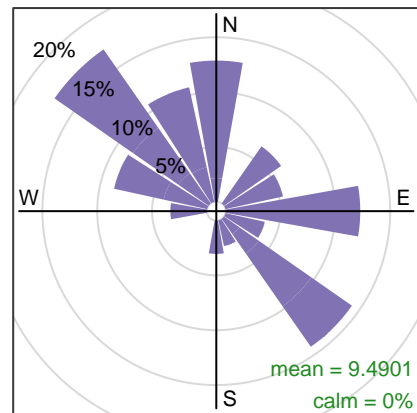
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Eastern Grounds – PM<sub>10</sub>



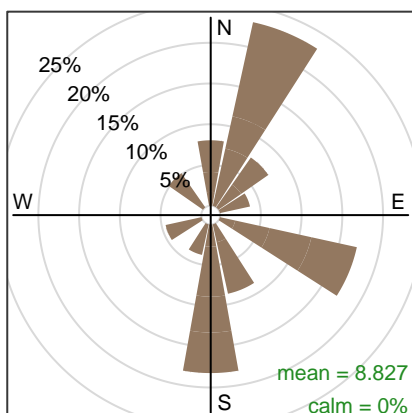
Eastern Grounds – PM<sub>2.5</sub>



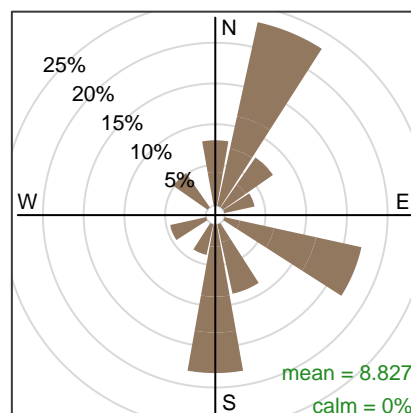
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Block 9 – PM<sub>10</sub>



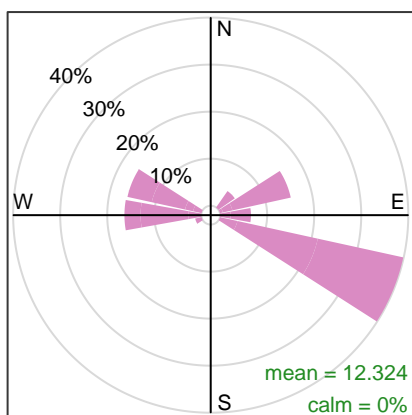
Block 9 – PM<sub>2.5</sub>



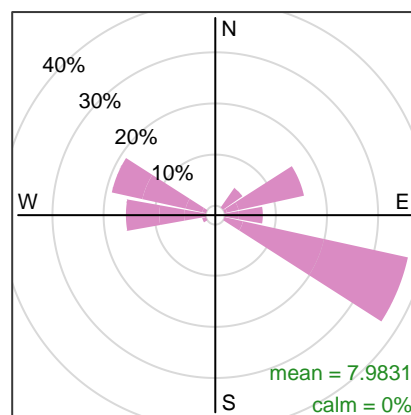
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

Northern Grounds – PM<sub>10</sub>



Northern Grounds – PM<sub>2.5</sub>



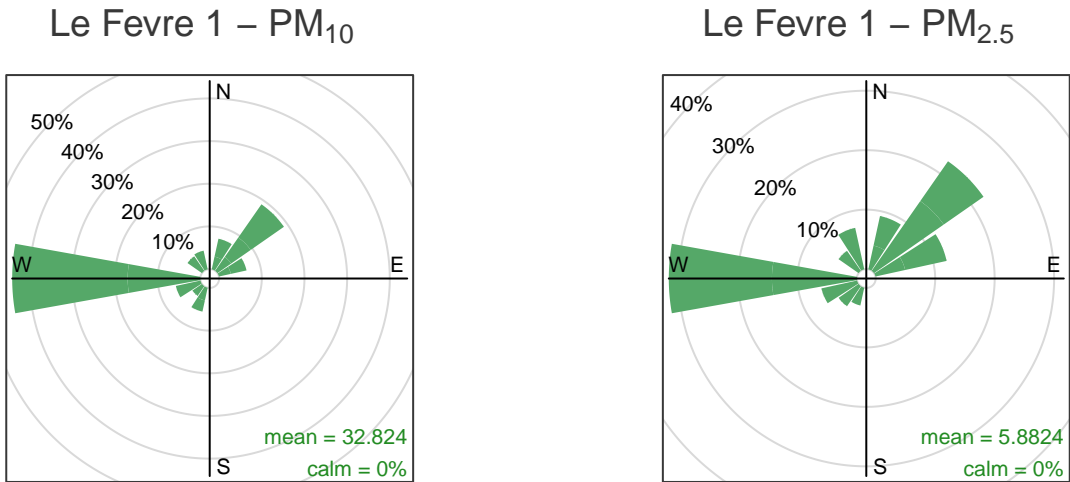
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

EPA Monitoring

No monitoring data was available for this period.

The dust roses below show the distribution of PM<sub>10</sub> and PM<sub>2.5</sub> measured at Le Fevre 1 for the period 17 December, 2025 .



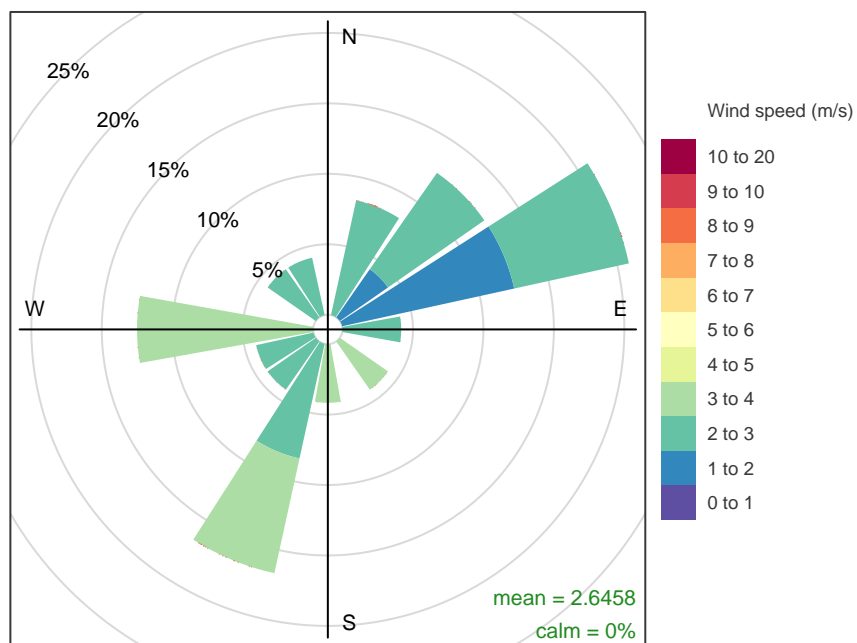
Proportion contribution to the mean (%)

Proportion contribution to the mean (%)

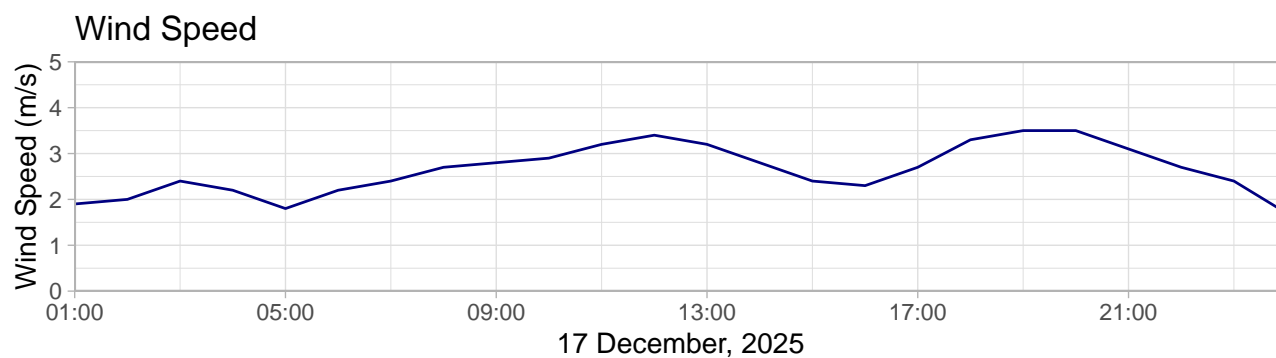


## Meteorological Monitoring

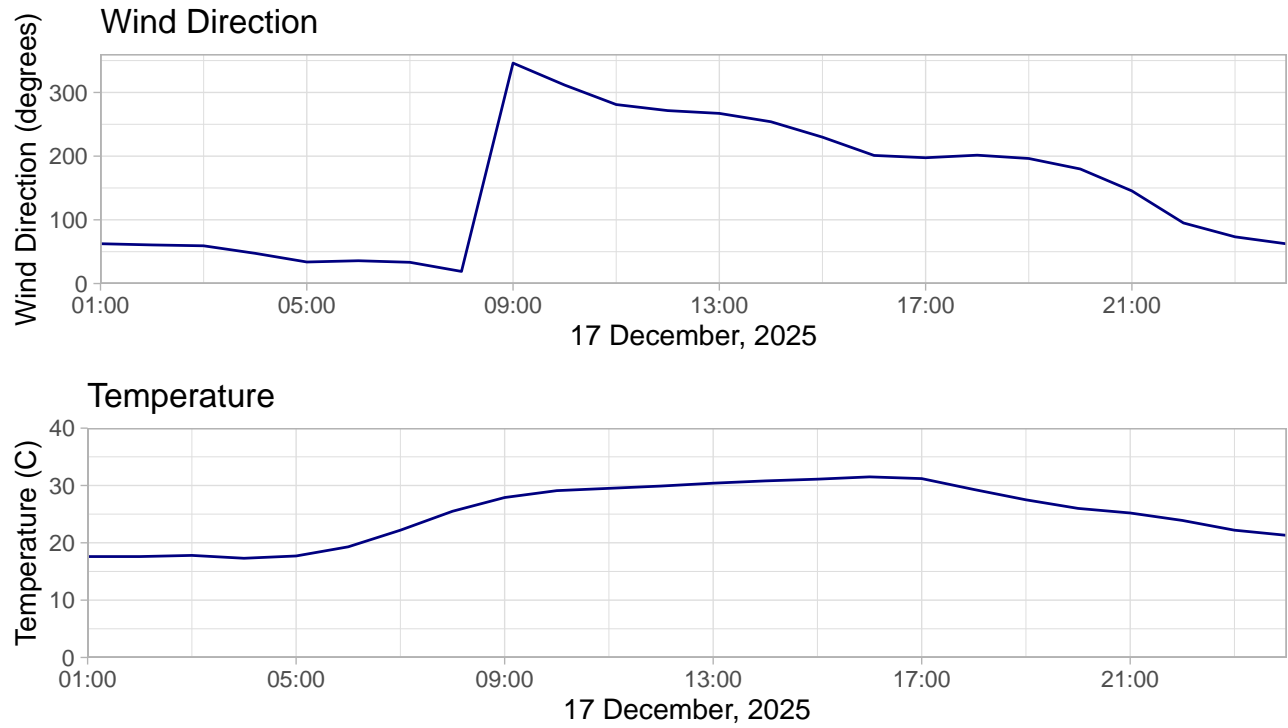
The following figures show meteorological parameters measured<sup>1</sup> throughout the day.



Frequency of counts by wind direction (%)



<sup>1</sup>Powered by [Meteomatics](#)



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*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.*