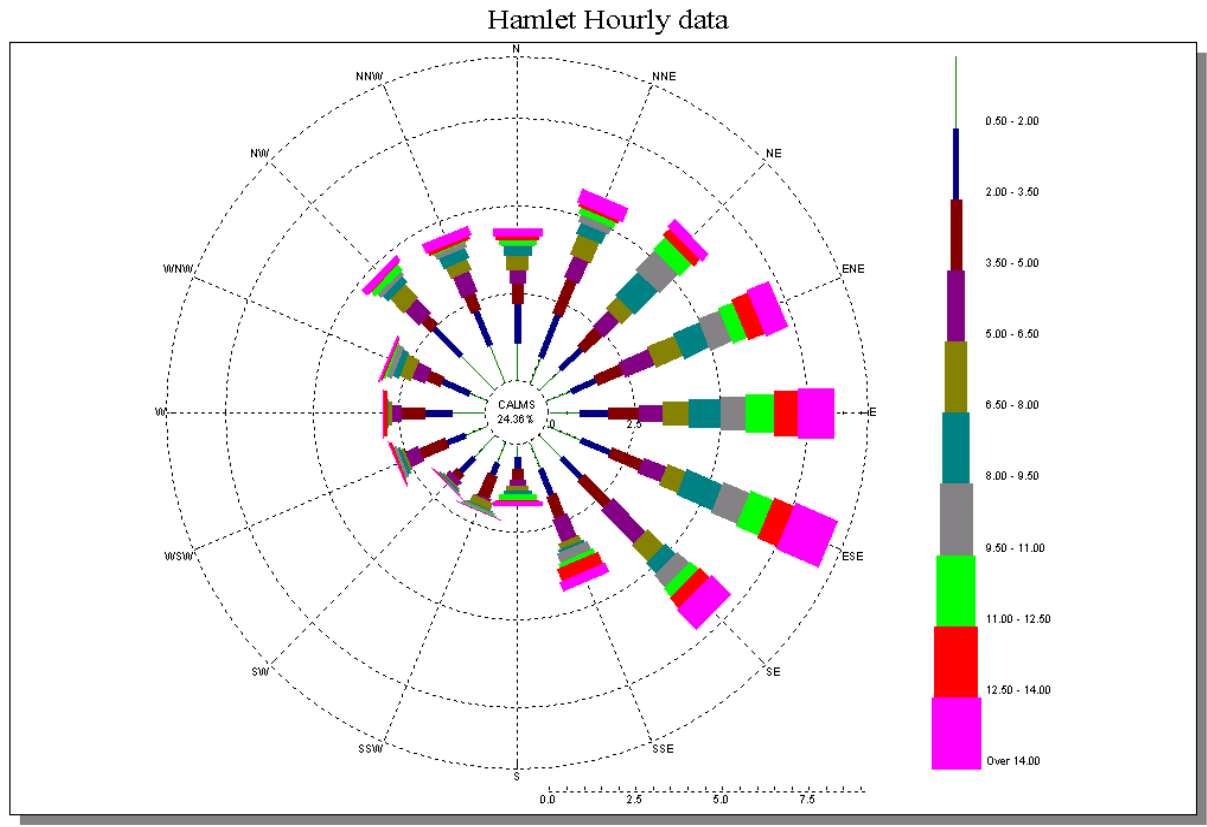




Envirodata

Wind Rose Display Software (WR10)



Features

- Graphical Summary of wind Data
- Both Tabular & Graphical forms
- Normalised as percentages
- Easy to use
- Accesses EasiAccess database directly
- Daily, weekly or monthly reports

Applications

- Meteorological
- Environmental reporting

Description

A 'wind rose' diagram shows the spread or distribution of wind speeds for each wind direction for the chosen period.

Wind data collected from your weather station can be shown as a 'wind rose' as an additional summary display to the standard chronological or 'time-series' displays.

Wind Rose Graph

In the example shown, the prevailing wind is from the East with speeds over 14 kilometres per hour.

The length of a particular colour equates to the frequency of occurrence of that speed range.

The overall length in a particular direction represents the frequency of occurrence of that particular direction.

The 'calm' value (in the centre) shows the percentage of time when there was no wind.

The range for 'calm' and the range for the wind speeds (bin size) that the colours represent can be set by the user.

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Wind Rose (WR10 Series)

Wind Rose Table

The Wind Rose table shows the same information numerically. Data is expressed as a percentage of the total time (called 'normalised'). The total at the bottom of each column shows the percentage of time for a particular direction. The total to the right of each row shows the total time for for each speed range.

Wind Speed Range km/h	Wind Direction Sector																Totals
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
Over 14.00	0.22	0.40	0.27	0.67	1.03	1.30	0.76	0.27	0.09					0.04	0.18	0.27	5.51
12.50 - 14.00	0.09	0.09	0.27	0.49	0.67	0.63	0.40	0.36	0.04			0.04	0.09	0.04	0.04	0.09	3.36
11.00 - 12.50	0.13	0.18	0.49	0.45	0.81	0.72	0.31	0.13	0.18	0.04				0.04	0.18	0.04	3.72
9.50 - 11.00	0.04	0.22	0.76	0.67	0.72	0.81	0.45	0.27		0.04	0.04	0.09		0.18	0.13	0.13	4.57
8.00 - 9.50	0.27	0.31	0.94	0.81	0.94	1.12	0.40	0.09	0.09	0.04	0.04	0.09	0.04	0.18	0.22	0.31	5.91
6.50 - 8.00	0.40	0.63	0.45	0.85	0.76	0.58	0.67	0.18	0.13	0.22	0.04	0.09	0.09	0.36	0.54	0.36	6.36
5.00 - 6.50	0.40	0.67	0.63	0.94	0.67	1.34	0.67	0.18	0.04	0.18	0.40	0.27	0.40	0.58	0.63	0.63	8.69
3.50 - 5.00	0.58	1.07	0.72	0.81	0.90	1.07	0.67	0.31	0.67	0.18	0.81	0.72	0.45	0.36	0.49	10.79	
2.00 - 3.50	1.12	1.30	0.81	0.76	0.81	0.90	0.76	0.81	0.36	0.36	0.58	0.58	0.76	0.85	1.12	1.07	12.94
0.50 - 2.00	1.07	0.81	0.85	0.76	0.90	1.07	0.90	0.81	0.31	0.63	0.85	0.72	0.99	0.58	1.39	1.16	13.79
Totals	4.34	5.69	6.18	7.21	8.20	8.78	7.08	4.25	1.70	2.06	1.93	2.82	2.96	3.13	4.75	4.57	75.64
Calms	24.36																

Simple Set-up Method

In most applications, Wind Rose is used as a regular reporting method. For example, week by week or month by month reports. To simplify the set-up, one 'report' is created for the site and the data set (eg hourly data). This report is then re-used each time by merely selecting a new time period.

Setting the report configuration

Choosing one of four time range options

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