



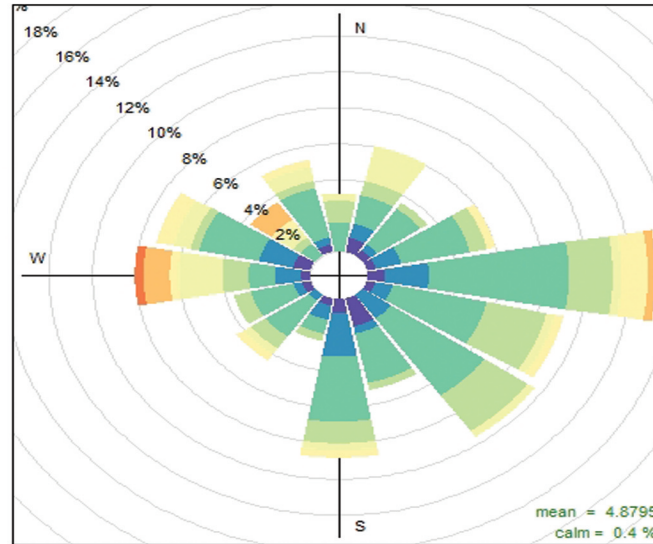
भारत सरकार / GOVERNMENT OF INDIA

पृथ्वी विज्ञान मंत्रालय/ MINISTRY OF EARTH SCIENCES

भारत मौसम विज्ञान भवन / INDIA METEOROLOGICAL DEPARTMENT

रेडियो सौन्डे और रेडियो विंड के मासिक सामान्य मूल्य (१९८१ - २०१०)
तथा मासिक उपरिवायु के पवन दिग्दर्शक आरेख (२००० - २०१५)

MONTHLY NORMALS OF RADIOSONDE AND RADIOWIND (1981-2010) AND
MONTHLY UPPER AIR WINDROSE DIAGRAMS (2000-2015)



बंगलुरु
BENGALURU

सितम्बर २०२०
SEPTEMBER 2020



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जलवायु आंकड़ा प्रबंधन समूह / CLIMATE DATA MANAGEMENT AND SERVICES GROUP
जलवायु अनुसंधान एवं सेवाएँ कार्यालय पुणे / OFFICE OF HEAD CLIMATE RESEARCH & SERVICES PUNE

सितम्बर २०२०
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PREFACE

India Meteorological Department (IMD), Ministry of Earth Sciences, brings out publications on varied meteorological topics. Normals of Radiosonde and Radiowind data has been published by the Climate Data Management and Services Group (CDMS), Office of Climate Research and Services (C R & S), IMD Pune since 1979. Four such publications have been published till date. The present publication 'Monthly Normals of Radiosonde and Radiowind (1981-2010) and Monthly Upper Air Windrose Diagrams (2000-2015)' is prepared using 0000 UTC (0530 IST) observation data from 35 Radiosonde and Radiowind (RS/RW) Upper Air stations for the period 1981-2010 and wind profile data of 34 RS/RW stations for the period 2000-2015 at eight different levels (1000, 925, 850, 700, 500, 300, 200, 100 hPa). The wind rose diagrams are prepared using R software after processing the RS/RW data by applying various quality checks. The present publication provides the climatology of different meteorological parameters at various levels over the station **Bengaluru** (Latitude $12^{\circ}58'N$, Longitude $77^{\circ}35'E$).

The first part of this publication contains wind roses which provide comprehensive wind frequency information from each direction with various ranges of wind speed. Wind rose is a graphical tool prepared in order to summarise the information about wind speed and wind direction for the station. The tables adjoining to each wind rose diagrams contain information of frequency of occurrence of wind speed in percentage at different ranges of wind direction. In wind roses, the most regular structure comprises of a circle from which eight or sixteen lines come out, one for each direction. The length of each line denotes the occurrence of wind from that direction and the occurrence of calm conditions is entered in the centre. The wind rose diagrams prepared in this publication will be an essential source of information to the distribution pattern of wind direction and wind speed over the station. The information generated in this publication regarding wind roses is expected to be useful and have several applications in the fields such as environmental impact assessment, industrial emissions measurements, wind energy, agriculture engineering, ambient air monitoring, air quality measurements, air dispersion modelling, etc.

The second part of the publication contains information related to station normals which comprises of altitude of standard pressure levels (mean, highest and lowest), normal values of upper air temperatures (mean, highest, lowest and dew point), resultant wind direction, resultant wind velocity and scalar wind speed at standard pressure levels. Besides, it also contains normal values of pressure and altitude of freezing level and pressure, altitude and temperature of tropopause.

The entire work of this publication has been done by a group of officers and staff members led by Shri. Sudeep Kumar B L, Scientist- C, Shri Nahush Kulkarni, Scientist- C, CDMS Group, O/o Climate Research & Services (C R & S), IMD Pune under the guidance of Shri. A.D. Tathe, Scientist E, Group Head, CDMS Group. The valuable contributions were made by Shri. G.S. Dhekne, Met. B, Shri.R.M. Walke, Met. A, Shri. S.H. Bhagwat, Met. A, Shri. R.V. Ghoge, Met. A, Smt. Geetha Harikumar, Met. A, Smt. Hasina Nisar, Met. A, Smt. Vaishali Jadhav, Met A, Smt. S.H.Joshi, Met A and S.H. Sangale S.A. towards the preparation of this publication. It is hoped that the information from this publication will be useful to the scientific community and operational activities at their particular stations.

Pune

September 2020

Dr. D. S. Pai

Head C R & S

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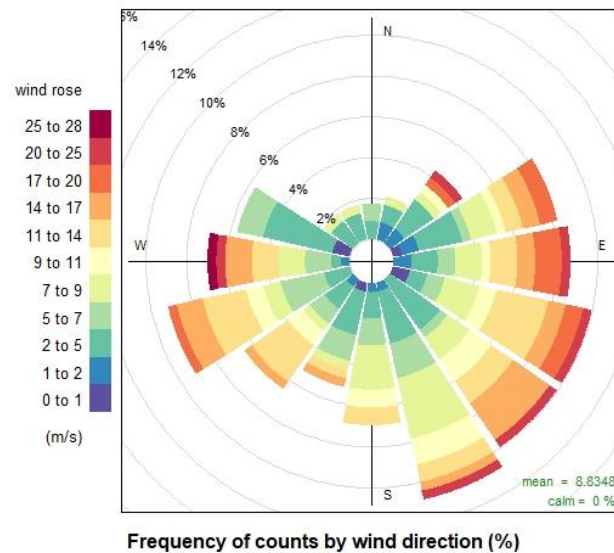
Description of various terms used in the table (Normals of Radiosonde data)

SN.	Terms	Description
1	PRESSURE	Standard Pressure levels in hPa (1000 to 7 hPa)
2	HEIGHT	Mean altitude of isobaric levels in gpm.
3	Hmax	Highest altitude of monthly mean values in gpm.
4	Hmin	Lowest altitude of monthly mean values in gpm.
5	TEMP	Mean dry bulb air temperature in °C.
6	TMAX	Highest value of temperature in °C observed at particular isobaric level
7	TMIN	Lowest value of temperature in °C observed at particular isobaric level
8	DEWPT	Mean dew point temperature in °C.
9	DIR	Mean resultant wind direction in degrees .
10	VELO	Mean resultant wind velocity in mps (vector mean).
11	U	The resolved part of wind velocity in East direction (East component)
12	V	The resolved part of wind velocity in North direction (North component)
13	VM	Mean wind speed irrespective of direction in mps (scalar mean).
14	P	Mean pressure of freezing and tropopause levels in hPa .
15	Height	Altitude of freezing and tropopause levels in gpm .
16	H_max	Highest altitude of freezing level of monthly mean values in gpm.
17	H_min	Lowest altitude of freezing level of monthly mean values in gpm .
18	SURFACE	Station level atmospheric pressure in hPa.
19	FIRST TROPOPAUSE	Tropopause observed at altitude less than 14 Km .
20	SECOND TROPOPAUSE	Tropopause observed at altitude more than 14 Km .

Description of terms used in the table (Wind rose table)

1	Speed	Range of wind velocity in mps
2	Direction	Range of wind direction in degrees

Interpretation of wind rose diagrams:



A wind rose diagrams at different upper air levels gives a very concise but information-laden view of how wind speed and direction are typically distributed at a particular location and month.

- The diagrams normally comprises of 8, 16 or 32 radiating spokes, which represent wind directions in terms of the cardinal wind directions (North East South West) and their intermediate directions.
- Presented in a circular format, the wind rose shows the frequency of winds blowing FROM particular directions.
- The length of each "spoke" around the circle is related to the frequency of time that the wind blows from a particular direction and each of the spokes are color-coded along their length to indicate the speed of the wind.
- Each concentric circle represents a different frequency, emanating from zero at the centre to increasing frequencies at the outer circles.

The circular format of the wind rose shows the direction the winds blew from and the length of each "spoke" around the circle shows how often the wind blew from that direction.

Bengaluru

January

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

January

925 hPa level

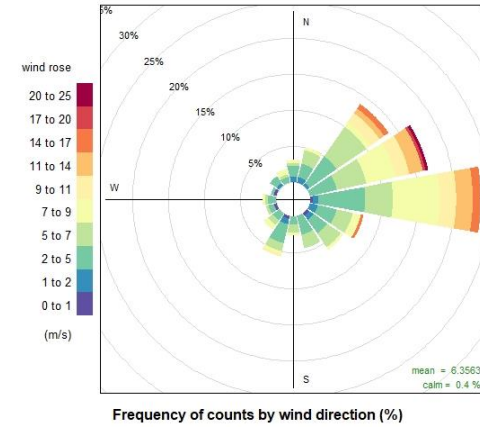
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

January

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.8	1.5	0.4	0.4	0	0	0	0	0	0
12-33		0	0.8	1.9	1.9	0.4	0	0	0	0	0	0
34-56		0	0.4	4.6	5	0.8	1.5	0.8	0.8	0	0	0
57-78		0	0	3.8	4.2	4.2	1.9	1.9	0	0.4	0.4	0
79-101		0.4	0.8	6.5	3.8	6.5	2.3	2.3	1.1	0	0	0
102-123		0	1.1	2.7	2.3	1.1	0	0	0.4	0	0	0
124-146		0.4	0.8	2.3	2.3	0.4	0	0	0	0	0	0
147-168		0	0	2.7	1.9	0	0	0	0	0	0	0
168-191		0	0	1.1	1.1	0.4	0	0	0	0	0	0
192-213		0.4	0.8	2.7	1.1	0.4	0.4	0	0	0	0	0
214-236		0	0	1.1	0.8	0.8	0	0	0	0	0	0
237-258		0.4	0	0.8	0.4	0	0	0	0	0	0	0
259-281		0	0	1.1	0.4	0.4	0	0	0	0	0	0
282-303		0.4	0	0.4	0	0	0	0	0	0	0	0
304-326		0	0.4	1.1	0	0	0	0	0	0	0	0
327-348		0	0	0.8	0.4	0.8	0	0	0	0	0	0

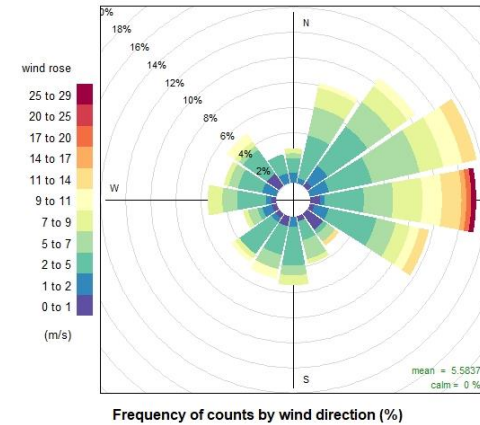


Bengaluru

January

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.8	1.2	0.4	0.4	0	0	0	0	0	0
12-33		0	0.4	3.5	2.3	1.6	0.4	0	0	0	0	0
34-56		0.4	1.6	3.9	2.3	1.6	0.8	0	0	0	0	0
57-78		0	1.6	3.5	3.9	1.9	1.6	1.2	0	0	0	0
79-101		0.8	0.4	3.1	2.3	2.3	1.6	1.6	0.4	0.4	0	0.4
102-123		0.4	1.2	3.9	1.6	1.2	0.8	0.8	0	0	0	0
124-146		1.6	0	0.4	0.8	0	0	0.4	0	0	0	0
147-168		0.4	0	1.6	1.6	0.4	0	0	0	0	0	0
168-191		0	0.8	3.1	0.8	0.8	0	0	0	0	0	0
192-213		0.8	0	2.3	1.2	0	0.8	0	0	0	0	0
214-236		0.4	0.4	3.1	0	0.4	0.4	0	0	0	0	0
237-258		0.4	0.8	0.4	0.8	0.4	0	0	0	0	0	0
259-281		0.4	0.4	2.3	1.2	1.2	0	0	0	0	0	0
282-303		0	1.2	1.9	0.8	0.4	0	0	0	0	0	0
304-326		1.2	0	2.3	0.4	0.4	0.8	0	0	0	0	0
327-348		0	0.8	1.6	0	0	0	0	0	0	0	0

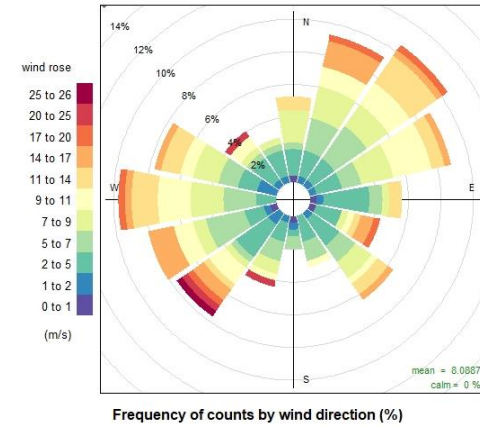


Bengaluru

January

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0	1.6	0.4	2	0	0.8	0	0	0	0
12-33		0	0.4	1.6	2	2	1.2	0	1.6	0.4	0	0
34-56		0	0.4	1.6	2.4	1.6	1.6	2	0.4	0.4	0	0
57-78		0	0.4	1.6	1.2	2	2.4	0.8	0.4	0	0	0
79-101		0.4	0.4	2.8	0.8	0.4	0	0.8	0	0	0	0
102-123		0.4	0	1.6	0	0.4	0.4	0.4	0.8	0.4	0	0
124-146		0	0.4	2	1.2	1.2	0.4	0.8	0.4	0	0	0
147-168		0	0	1.6	1.2	0	0.4	0	0	0	0	0
168-191		0.4	0.4	0.4	0.8	0	0	0	0	0	0	0
192-213		0	0.4	1.2	1.2	0.8	0.4	0	0	0	0.4	0
214-236		0	0.8	2.4	0.4	0.4	1.2	0.4	0.8	0.4	0.4	0.4
237-258		0.4	0.4	1.2	2.4	0.8	1.2	0	1.6	0	0	0
259-281		0	0	1.2	2	2	2	1.6	0.4	0.4	0	0
282-303		0	1.2	1.2	1.2	1.6	0.8	1.2	0.4	0	0	0
304-326		0	0.4	1.6	0.4	0.4	0.8	0	0	0	0.4	0
327-348		0	0.4	1.6	0.4	0.4	0	0	0	0	0	0

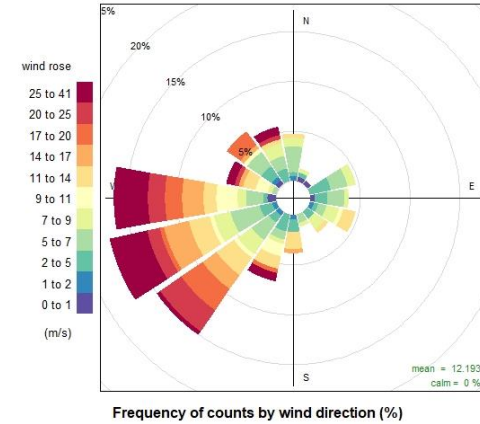


Bengaluru

January

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	0.4	2.6	0.9	0	0.4	0	0	0	0
12-33		0.4	0	0.4	0	0.4	0	0	0	0	0	0
34-56		0.4	0	0	0	0	0	0	0	0	0	0
57-78		0	0	2.1	1.7	0.9	0	0	0	0	0	0
79-101		0.4	0	1.3	1.7	0.4	0	0	0	0	0	0
102-123		0	0.4	0.4	0.9	1.3	0.4	1.3	0	0	0	0
124-146		0	0	0.9	0	1.3	0	0.4	0	0	0	0
147-168		0	0	0	0.9	0.4	0	0	0	0	0	0
168-191		0	0.4	1.3	0	0	0	1.7	0.4	0	0	0
192-213		0	0	1.7	0.9	0.4	1.3	1.3	0	0.4	0	0.9
214-236		0	0.4	0.9	2.1	1.7	0.4	2.1	1.7	2.6	2.6	0.4
237-258		0	0.4	1.3	3	1.7	0.4	2.1	2.6	0.4	1.3	3.9
259-281		0.9	0	0.4	1.7	0.9	2.1	1.3	2.1	1.7	1.7	3.4
282-303		0	0	0	0.4	0.4	1.3	1.3	0.4	0	0.4	0.9
304-326		0.4	0.4	1.3	1.7	0	0.4	0	0.4	1.7	0	0
327-348		0	0	1.3	1.3	1.3	0	0.4	0	0	0.4	0.9

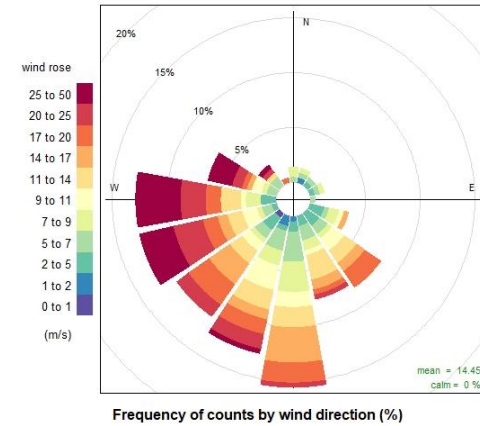


Bengaluru

January

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0.5	0.9	0	0	0	0	0	0
12-33		0	0.5	0	0.5	0.5	0	0	0	0	0	0
34-56		0	0	0.5	0.5	0	0	0	0	0	0	0
57-78		0	0	0.5	0.5	0.5	0	0	0	0	0	0
79-101		0	0	0	0.5	0	0	0	0	0	0	0
102-123		0	0	1.4	0.5	0.9	0.5	0	0.5	0	0	0
124-146		0	0	1.4	0.9	0.5	1.4	1.4	0.9	1.8	0	0
147-168		0	0	0.9	1.4	0.9	0.5	2.3	0.9	0.5	0.5	0
168-191		0	0.5	0.9	2.8	2.8	1.4	1.8	3.2	1.8	0.5	0
192-213		0	0.9	0.5	1.8	1.4	2.3	1.8	0.9	1.4	1.4	0.5
214-236		0.5	0	1.4	0.9	0.5	0.9	1.4	2.3	2.3	1.4	0
237-258		0	0	0.5	0.9	0.5	1.4	1.4	0.9	1.4	2.8	3.2
259-281		0	0	1.4	0	1.4	0.5	1.8	0	1.4	2.3	4.1
282-303		0	0	0	0.9	0.5	0.9	0	0.5	0.5	0.9	2.3
304-326		0	0	0	0.9	0	0	0.5	0	0	0.5	0.5
327-348		0	0	0	0	0	0	0	0	0.5	0	0

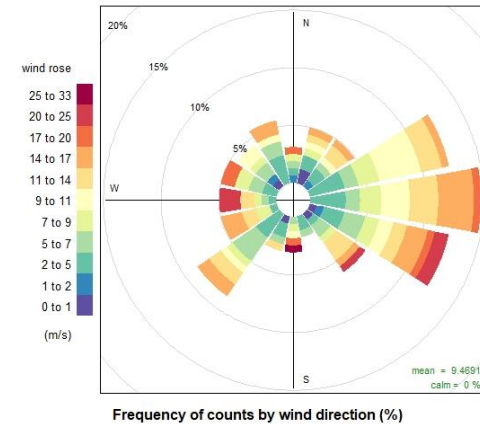


Bengaluru

January

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.6	0.6	0.6	0.6	0	0	0	0.6	0	0
12-33		1.2	0	1.2	0	0.6	0.6	0.6	0.6	0	0	0
34-56		0	0.6	1.2	0.6	0	0.6	1.2	0.6	0	0	0
57-78		0	0	3.1	1.2	1.9	3.7	1.9	0.6	0	0	0
79-101		0	0	3.1	1.2	1.9	2.5	2.5	3.1	0.6	0	0
102-123		0.6	0.6	1.9	1.9	1.2	1.2	1.2	1.9	0.6	1.2	0
124-146		0.6	0	0.6	1.2	0.6	0	1.9	0.6	0	0.6	0
147-168		0	0	1.2	0.6	0	0	0	0	0	0	0
168-191		0	0	0	0.6	0.6	0.6	0	0	0.6	0	0.6
192-213		0.6	0	1.2	0.6	0	0	0.6	0	0	0	0
214-236		0	0	2.5	2.5	0.6	0.6	1.2	1.2	0	0	0
237-258		0	0	0.6	0	1.2	0	1.2	1.9	0	0	0
259-281		0	0	0.6	0.6	0.6	0	1.2	0	0	1.9	0
282-303		0	0	1.2	1.2	1.2	0	0	0	1.2	0	0
304-326		0.6	0.6	0	1.2	0.6	1.2	0	0	0	0	0
327-348		0	0	2.5	1.2	0	0.6	0	1.2	0	0	0



Bengaluru

February

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

February

925 hPa level

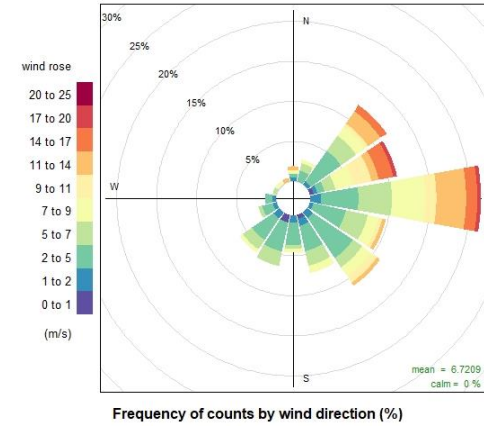
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

February

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.5	0.5	0	0.5	0	0.5	0	0	0	0
12-33		0	0	1.4	0.9	0.5	0	0	0	0	0	0
34-56		0	0.5	4.7	2.3	1.4	0.5	1.9	0.9	0	0	0
57-78		0.5	0.5	0.9	1.4	2.3	2.3	0.9	1.9	0.5	0	0
79-101		0	1.4	4.7	4.2	4.2	1.4	3.7	1.4	0.5	0	0
102-123		0	0.5	4.2	2.8	1.4	0.5	0.5	0	0	0	0
124-146		0	0.9	6	1.4	1.4	0.9	0.5	0	0	0	0
147-168		0.5	0.5	2.8	1.9	0.9	0	0	0	0	0	0
168-191		0	1.4	3.3	0.5	0.5	0	0	0	0	0	0
192-213		0.9	0	3.7	1.9	0	0	0	0	0	0	0
214-236		0	0.9	3.3	1.4	0.5	0	0	0	0	0	0
237-258		0	0.5	1.4	0.5	0	0	0	0	0	0	0
259-281		0	0.5	0.9	0	0	0	0	0	0	0	0
282-303		0	0	0	0.5	0	0	0	0	0	0	0
304-326		0	0	0	0	0.5	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0.5	0	0	0	0

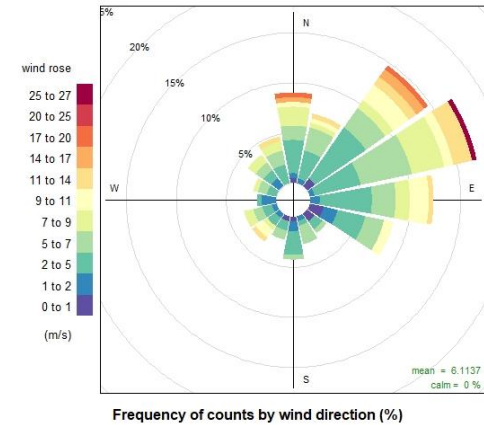


Bengaluru

February

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.5	0.5	3.3	1.4	1.9	0.5	0	0.5	0.5	0	0
12-33		0	0.5	2.8	2.4	0.5	0.5	0.5	0	0	0	0
34-56		0.9	0	6.2	2.4	0.9	1.9	0.9	0.9	0.5	0	0
57-78		0	0.5	4.7	5.2	3.3	0.9	1.9	0	0	0	0.5
79-101		0	0.9	5.2	2.4	1.4	1.9	0.5	0	0	0	0
102-123		1.4	1.4	2.8	1.9	0	0.9	0	0	0	0	0
124-146		0.9	0	0.9	0.5	0	0	0	0	0	0	0
147-168		0	0.5	0.5	1.9	0	0	0	0	0	0	0
168-191		0.5	0.9	2.4	0.5	0	0	0	0	0	0	0
192-213		0.5	0	0.9	0.9	0	0	0	0	0	0	0
214-236		0	0.5	0.9	0	0.5	0.9	0.5	0	0	0	0
237-258		0	0.5	0.9	0.9	0.9	0	0	0	0	0	0
259-281		0	1.4	0.5	0	0	0	0	0	0	0	0
282-303		0	0	0.9	0.9	0.5	0	0	0	0	0	0
304-326		0	0.9	0.9	0.9	0.9	0	0	0	0	0	0
327-348		0	0	1.9	1.4	0.9	0	0.5	0	0	0	0

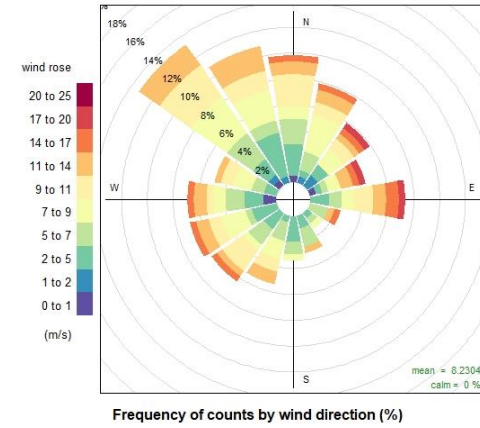


Bengaluru

February

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.5	0	2.5	2	1	2.5	1	0.5	0	0	0
12-33		0	0.5	0.5	1.5	2.9	1	1	0.5	0	0	0
34-56		0	1	1	0	1.5	1	0.5	0.5	0.5	0	0
57-78		0.5	0	0.5	0.5	1	0	1	0.5	0.5	0	0
79-101		0	0	1.5	1	1	1.5	1	1	0.5	0	0
102-123		0	0	0	1.5	0	0	0.5	0.5	0	0	0
124-146		0	0	0.5	0.5	0.5	0	0	0	0	0	0
147-168		0	0	1	1.5	0	0	0.5	0	0	0	0
168-191		0	0	2	1	0.5	0	0	0	0	0	0
192-213		0	0	0.5	1.5	1.5	1	1	0	0	0	0
214-236		0	0	1.5	1.5	0.5	2	0.5	0.5	0	0	0
237-258		0	0	2	0.5	2	1	1	0.5	0	0	0
259-281		1	0	1.5	1.5	1	0.5	1	0.5	0	0	0
282-303		0	0	1	1	1.5	1	0.5	0	0	0	0
304-326		0.5	0.5	1.5	2.5	3.4	2.9	2	0	0	0	0
327-348		0	0.5	3.4	1	2.5	1.5	2	0	0	0	0

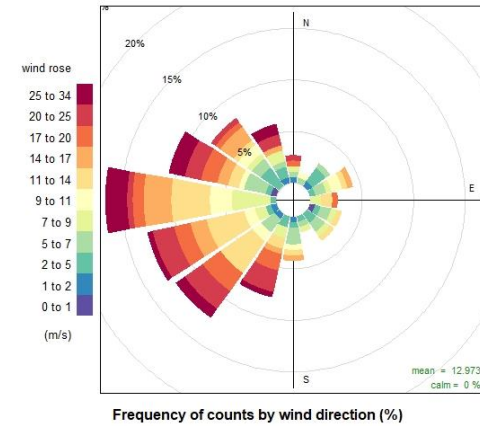


Bengaluru

February

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.5	0	0.5	0.5	0	0	0	0.5	0.5	0
12-33		0	0	0	0.5	0	0.5	0	0	0	0	0
34-56		0	0.5	1.6	0.5	0	0	0	0	0	0	0
57-78		0	0	0.5	1.1	0.5	1.1	0.5	0.5	0	0	0
79-101		0	0	0	0	1.1	0	1.1	0	0.5	0	0
102-123		0.5	0	0.5	1.1	0.5	0	0.5	0	0	0	0
124-146		0	0	1.1	1.1	0.5	0	0.5	0	0	0	0
147-168		0	0	0.5	0.5	0.5	0	0	0	0	0	0
168-191		0	0.5	0.5	1.6	0	0.5	0.5	0.5	0	0	0
192-213		0	0	1.1	0	1.1	0	1.1	0.5	1.6	2.1	0.5
214-236		0	0.5	0	1.6	0	1.1	3.7	0	2.1	2.1	1.1
237-258		0	0.5	0.5	0	1.1	1.1	3.7	1.6	1.6	2.1	0.5
259-281		0	0	0.5	0	3.7	2.1	3.7	2.7	1.1	0.5	2.1
282-303		0.5	0	0.5	2.1	0	0.5	1.1	1.1	1.6	1.6	1.6
304-326		0	0	2.1	1.1	0.5	1.1	0.5	1.6	0.5	0.5	0
327-348		0	0.5	1.1	0.5	1.1	0	0	0.5	0	1.1	1.1

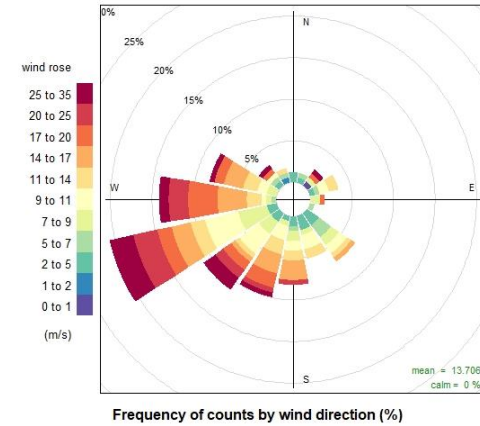


Bengaluru

February

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.2	0	0	0	0	0	0	0	0
12-33		0	0	0.6	0.6	0	0	0	0	0	0	0
34-56		0.6	0	0	0	0.6	0	0	0	0.6	0	0.6
57-78		0	0	0.6	0.6	0	1.2	1.2	0	0	0	0
79-101		0	0	0	0	1.2	0	0	0	0.6	0	0
102-123		0	0	0	0.6	0	0	0	0	0	0	0
124-146		0	0	1.8	1.8	1.2	1.2	0.6	0.6	0	0	0
147-168		0	0	1.2	0	0.6	1.2	1.2	0	0	0	0
168-191		0	0	1.8	0.6	1.2	1.8	1.2	2.4	0	0.6	0
192-213		0	0	0.6	0	0.6	1.8	1.8	2.4	1.8	0.6	0.6
214-236		0	0	1.2	0	1.8	2.9	0.6	0.6	1.2	1.2	1.8
237-258		0	0	1.2	0	3.5	4.1	1.8	2.4	1.8	2.9	2.9
259-281		0	0	0	0.6	0.6	0.6	1.8	3.5	3.5	2.4	1.2
282-303		0	0	0	0	1.2	1.2	1.8	2.4	1.2	0	0.6
304-326		0	0	0.6	0.6	0	0.6	0	0	0.6	0	0.6
327-348		0	0.6	0	0.6	0	0	0	0.6	0	0	0

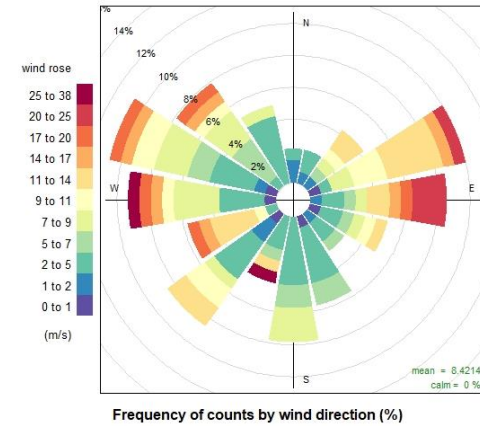


Bengaluru

February

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.4	0.7	0	0	0	0	0	0	0	0
12-33		0	0.7	1.4	0	0	0	0	0	0	0	0
34-56		0	0.7	0	0.7	0.7	0.7	1.4	0	0	0	0
57-78		0.7	0	0.7	0	1.4	2.1	3.6	0.7	0	0.7	0
79-101		0	0.7	1.4	0.7	0.7	0	1.4	0.7	0.7	2.1	0
102-123		0.7	0	1.4	0.7	0.7	0.7	0.7	0	0	0	0
124-146		0	0.7	1.4	0.7	0	0	0	0	0	0	0
147-168		0.7	0	3.6	1.4	0	0	0	0	0	0	0
168-191		0	0	4.3	1.4	2.1	0	0	0	0	0	0
192-213		0	0	2.1	0.7	0	0	0.7	0	0	0	0.7
214-236		0.7	1.4	2.9	0	0.7	1.4	1.4	0	0	0	0
237-258		0	0	0.7	0	0	0.7	2.9	0.7	0.7	0	0
259-281		0.7	0	2.9	0	2.9	0.7	0	0.7	0.7	0	0.7
282-303		0.7	0.7	2.9	1.4	2.1	1.4	0	0.7	0.7	0	0
304-326		0	0	0.7	2.9	2.1	0.7	0	0.7	0.7	0	0
327-348		0	0	4.3	0	0.7	0	0	0	0	0	0



Bengaluru

March 1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

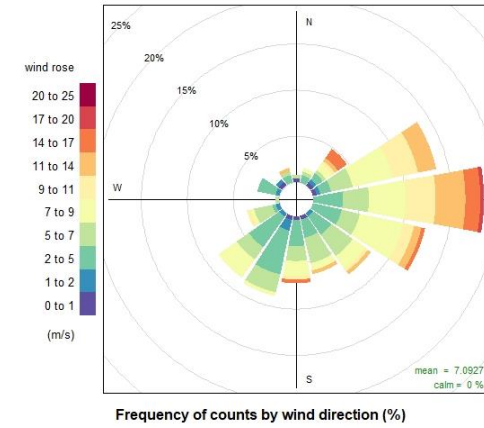
March 925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

March 850 hPa level

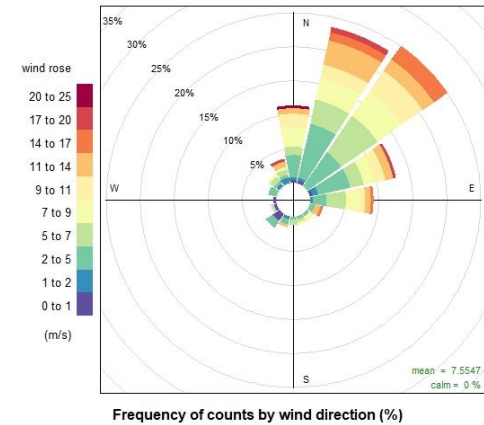
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0	0	0.4	0	0	0	0	0	0	0
12-33		0	0	0.8	0.4	0.4	0	0	0	0	0	0
34-56		0.4	0.4	0.8	0.4	0.8	0.4	0.4	1.2	0	0	0
57-78		0.4	0.4	1.2	2.4	4.4	2.8	2	0	0	0	0
79-101		0	0	3.2	2.8	4	3.2	3.2	1.6	0.4	0	0
102-123		0	0	3.2	2	4.8	1.2	0.8	0.4	0	0	0
124-146		0	0.4	2.4	2.8	1.6	0.4	0.4	0	0	0	0
147-168		0.4	0	2	2.8	0.8	0	0.4	0	0	0	0
168-191		0.4	0	2.8	1.6	1.6	0.4	0	0.4	0	0	0
192-213		0.4	1.2	4.8	2	0.4	0	0	0	0	0	0
214-236		0	0.4	4	1.6	2.4	0	0	0	0	0	0
237-258		0	0.4	0.4	2	0.4	0.4	0	0	0	0	0
259-281		0	0	0	0.4	0	0	0	0	0	0	0
282-303		0	0.4	2	0	0	0	0	0	0	0	0
304-326		0.4	0.4	0	0	0	0	0	0	0	0	0
327-348		0	0	0.8	0.4	0	0	0.4	0	0	0	0



Bengaluru

March 700 hPa level

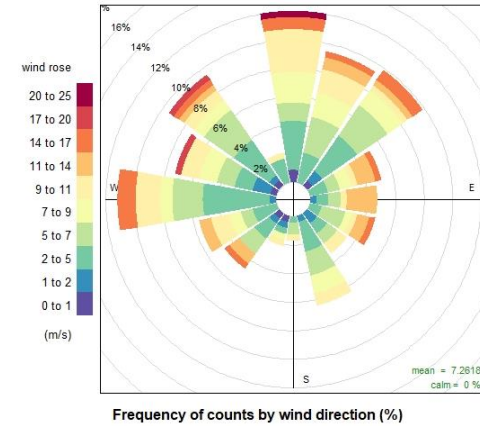
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0.4	3.2	1.2	2.8	2	0.8	0	0	0.4	0
12-33		0.4	0.4	8.1	3.6	3.2	2	3.6	1.2	0.8	0	0
34-56		0	0	6.1	6.5	4.5	3.6	2	2.4	0	0	0
57-78		0.4	0.8	4.9	2	1.6	1.6	1.2	0	0.4	0	0
79-101		0	0.4	2	2.8	2	0.8	0.8	0.4	0	0	0
102-123		0	0	0.8	0	0	0	0.8	0.4	0	0	0
124-146		0	0	0.4	0	0.4	0.4	0	0	0	0	0
147-168		0	0	0.4	0.4	0	0.4	0	0	0	0	0
168-191		0	0	0.4	0.8	0	0	0	0	0	0	0
192-213		0	0.4	0.8	0	0	0	0.4	0	0	0	0
214-236		1.2	0	1.2	0	0	0	0	0	0	0	0
237-258		0.4	0	0	0.4	0	0	0	0	0	0	0
259-281		0.4	0	0	0	0	0	0	0	0	0	0
282-303		0	0	1.2	0	0	0	0	0	0	0	0
304-326		0	0.4	0.4	0.8	0.4	0	0	0	0	0	0
327-348		0	0.8	0.4	0.8	0.4	0	0.8	0	0.4	0	0



Bengaluru

March 500 hPa level

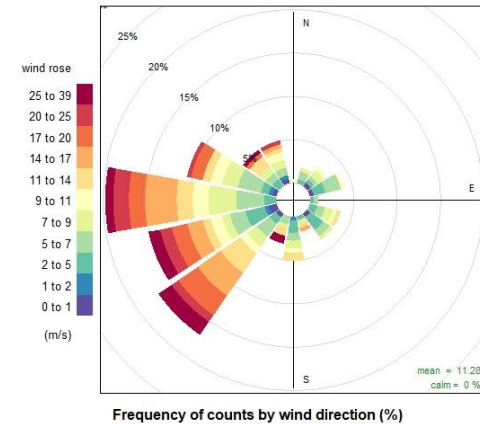
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.9	0	3.4	1.3	2.1	3	0	0.9	0	0.4	0
12-33		0	0	2.1	2.6	1.7	1.7	0.9	0.4	0	0	0
34-56		0.4	0.9	3	2.6	1.3	0.4	0.4	0.9	0	0	0
57-78		0	0	1.3	0.9	0.9	0.4	1.3	0.4	0	0	0
79-101		0	0.4	0.9	0.9	0	0.4	2.1	0	0	0	0
102-123		0	0	0.9	1.7	0.4	0.4	0.9	0.4	0	0	0
124-146		0	0.9	0.9	0.9	0	0.9	0	0	0	0	0
147-168		0	0.4	2.1	1.3	1.3	0.9	0	0	0	0	0
168-191		0	0	0.4	1.3	0	0.4	0	0	0	0	0
192-213		0.4	0.4	0.4	0	0.4	0.4	0	0	0	0	0
214-236		0.4	0.4	1.3	1.3	0	0	0.9	0.4	0	0	0
237-258		0	0	1.7	0.9	0.9	1.3	0.9	0	0	0	0
259-281		0	0.4	4.7	2.1	0.9	1.7	0	1.3	0	0	0
282-303		0.4	1.3	1.3	1.3	1.3	1.3	0	0	0.4	0	0
304-326		0.4	0.4	3	2.6	0.9	0.9	0.4	0.4	0.4	0	0
327-348		0	0	1.7	0	0	0.4	0	0	0	0	0



Bengaluru

March 300 hPa level

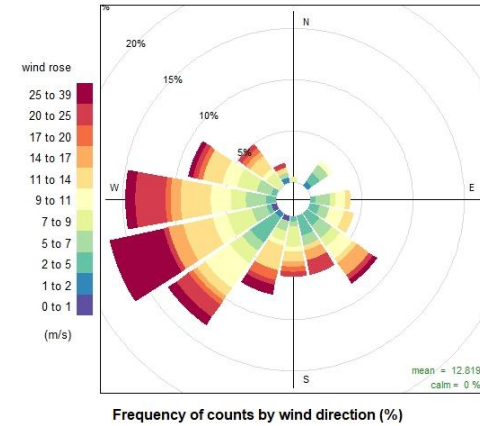
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0.5	0	0	0	0	0
12-33		0	0	0.5	0.9	0.5	0	0	0	0	0	0
34-56		0.5	0	0.5	0.5	0.9	0.5	0	0	0	0	0
57-78		0.5	0	1.4	1.8	0	0.5	0	0	0	0	0
79-101		0	0	0.5	0.5	0	0	0	0	0	0	0
102-123		0	0	0.9	0.9	0.9	0.5	0.5	0	0	0	0
124-146		0.5	0	1.8	0.9	0.5	0	0	0	0	0	0
147-168		0	0	0.5	0	0.5	0	0.5	0.5	0	0	0
168-191		0	0.5	1.4	0.9	0.9	0.5	0.9	0	0	0	0
192-213		0	0	0	0.9	0.5	0	0.9	0	0	0	0.9
214-236		0.5	0	0.9	1.8	1.4	0.9	2.8	3.2	2.8	0.9	1.8
237-258		0.9	0.5	2.3	1.8	0.9	1.4	0.9	1.8	1.8	1.4	1.4
259-281		0	0	1.4	3.2	3.2	1.8	1.8	3.7	1.8	1.8	0.9
282-303		0.5	0.5	0.9	2.8	1.8	1.4	0.9	0	1.4	0.5	0
304-326	0	0	0.9	0.9	0.9	0	1.4	0	0.5	0	0.5	
327-348	0.5	0.5	0	0.9	0.9	0.9	0.5	0.5	0	0.5	0	



Bengaluru

March 200 hPa level

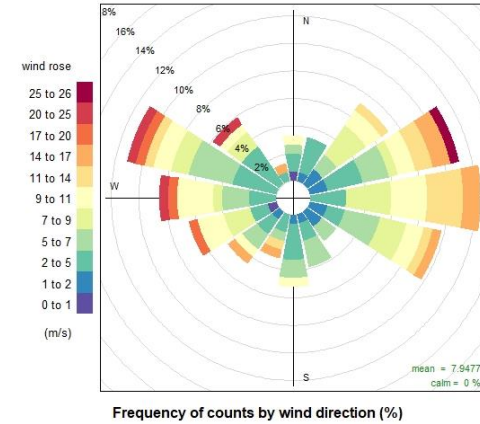
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0.5	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0.5	1	1	0	0.5	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0.5	1.5	0.5	1	0.5	0	0	0	0
102-123		0	0	1	1	0	1.5	1	0	0	0	0
124-146		0	0	1.5	1.5	1	1.5	0.5	1.5	0	0.5	0.5
147-168		0	0	2	1	0	0	0.5	1	0	1	0
168-191		0	0	0.5	0.5	2	0.5	1	0.5	0.5	1	0
192-213		0.5	0	0	1	1	0.5	2.5	0	1	0.5	1
214-236		0	0.5	2.9	1	1.5	2.9	1	0.5	0.5	1.5	1
237-258		0.5	0	0.5	1.5	2.5	1.5	2.9	1.5	0	0.5	5.4
259-281		0	0	1	2	1.5	2	2.9	1	0.5	2.9	1
282-303		0	0	0.5	1.5	2	1.5	2	0	0.5	0.5	0.5
304-326		0	0	0	0	1.5	0.5	1.5	0.5	0.5	0.5	0
327-348		0	0.5	0	0.5	0	0	0.5	0	0	0.5	0



Bengaluru

March 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.7	0	1.3	0.7	0	0.7	0	0	0	0	0
12-33		0	0.7	2.6	0	0	0	0	0	0	0	0
34-56		0	1.3	0	1.3	2.6	1.3	0.7	0	0	0	0
57-78		0	1.3	2.6	2	0.7	1.3	1.3	1.3	0	0	0.7
79-101		0	0	2.6	0	3.3	2.6	2.6	1.3	0	0	0
102-123		0	1.3	1.3	2.6	2	1.3	0.7	0.7	0	0	0
124-146		0	1.3	0	1.3	0	0	0	0	0	0	0
147-168		0	0.7	1.3	2	0	0	0	0	0	0	0
168-191		0	0.7	2.6	1.3	0	0.7	0	0	0	0	0
192-213		0	0	1.3	0.7	0	0	0.7	0.7	0	0	0
214-236		0	0.7	1.3	1.3	0	0.7	0	0.7	0	0	0
237-258		0.7	0	1.3	0	2	2	0	0	0.7	0	0
259-281		0	0	2	2	0.7	2.6	0	0	0.7	0.7	0
282-303		0	0	3.3	3.3	1.3	1.3	0.7	0	0.7	0.7	0
304-326		0	0	3.3	0	1.3	0.7	0	0	0	0.7	0
327-348		0	0	0.7	0	0	0	0	0.7	0	0	0



Bengaluru

April

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

April

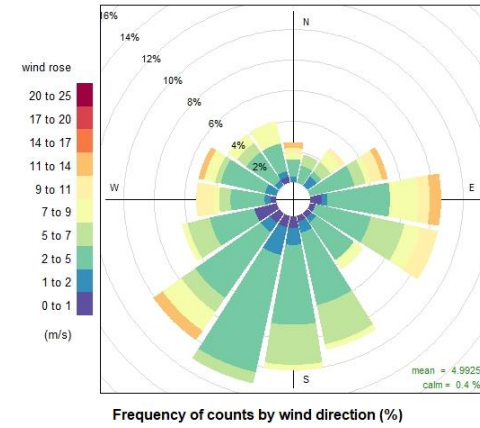
925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

April 850 hPa level

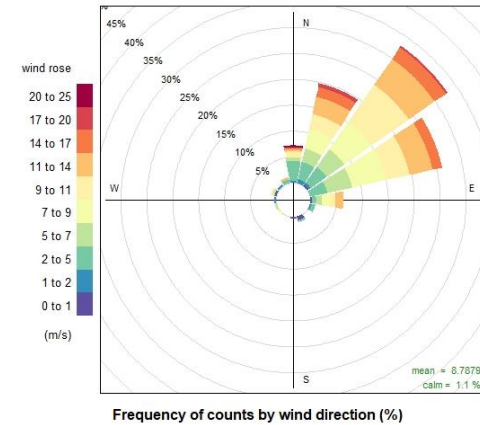
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	1.1	0	0.4	0.4	0.4	0	0	0	0
12-33		0	0	1.1	0.7	0	0	0	0	0	0	0
34-56		0	0.7	0.4	0.7	0.7	0.4	0	0	0	0	0
57-78		0	0	3	0.7	0.4	0.7	0.4	0	0	0	0
79-101		0.7	0.4	4.1	0	1.9	0.7	0.7	0	0	0	0
102-123		0.4	0	3.7	2.2	1.1	1.1	0	0	0	0	0
124-146		0.4	0.4	3	0	0.7	0	0	0	0	0	0
147-168		0.4	0.7	4.9	2.2	0.4	0	0	0	0	0	0
168-191		0.7	1.1	5.2	3	0.4	0	0	0	0	0	0
192-213		0.7	1.9	7.8	0.7	0	0	0	0	0	0	0
214-236		0.7	0.7	5.2	1.1	1.5	0	0.7	0	0	0	0
237-258		1.5	0	3	1.5	0.4	0	0	0	0	0	0
259-281		0.4	0.4	2.2	0.7	0.4	1.1	0	0	0	0	0
282-303		0	0.7	3	0.4	0.7	0	0.4	0	0	0	0
304-326		0	0.4	2.2	0.7	0.7	0	0	0	0	0	0
327-348		0.4	0.4	1.9	0	1.5	0	0	0	0	0	0



Bengaluru

April 700 hPa level

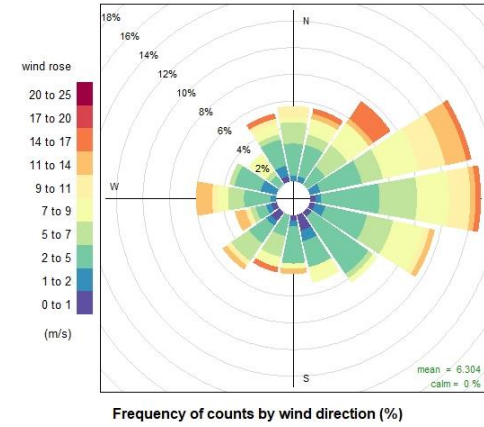
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0.4	3.8	0.8	0	1.1	0.4	0.4	0	0.4	0
12-33		0	0.8	3.4	2.7	3.8	3	3.4	1.9	0.8	0	0
34-56		0.4	0.4	3.8	4.2	6.4	8.7	6.1	2.7	0.4	0	0
57-78		0	0	3.4	4.9	6.8	4.5	4.5	1.9	0	0	0
79-101		0.4	0	0.8	1.1	1.5	1.1	1.5	0	0	0	0
102-123		0	0.4	0.8	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0.8	0	0.4	0	0	0	0	0	0	0	0
168-191		0.4	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0.4	0	0	0	0	0	0
237-258		0	0	0	0.4	0	0	0	0	0	0	0
259-281		0	0.4	0	0	0	0	0	0	0	0	0
282-303		0.4	0	0	0.4	0	0.4	0	0	0	0	0
304-326		0	0.4	0	0	0	0	0	0	0	0	0
327-348		0	0	0.8	0	0	0	0.4	0	0	0	0



Bengaluru

April 500 hPa level

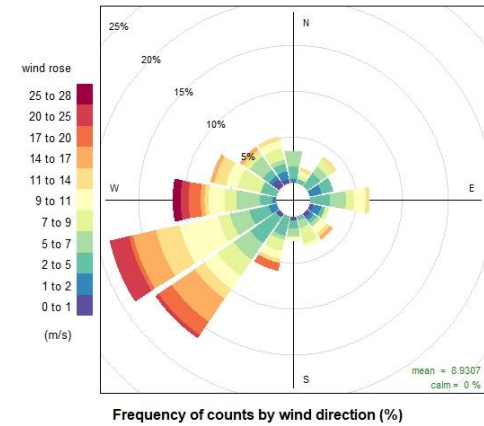
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	2.4	1.6	0.4	0.8	0	0	0	0	0
12-33		0	0.4	2.4	0.8	1.2	0	0.4	0.4	0	0	0
34-56		0	0	1.6	2	2	0	0.4	1.6	0	0	0
57-78		0	0.8	3.2	1.6	2.8	2	1.6	0.4	0	0	0
79-101		0.4	0.4	4.4	2.8	2.4	1.6	0.4	0.4	0	0	0
102-123		0.4	0.8	3.2	2	2.4	0.4	0.4	0	0	0	0
124-146		0.4	0	5.2	0.4	0.4	0	0	0	0	0	0
147-168		1.2	0.8	2	0	1.2	0	0	0	0	0	0
168-191		0.4	0.4	2.8	0	0.4	0	0.4	0	0	0	0
192-213		0	0	1.6	1.6	0.8	0	0	0.4	0	0	0
214-236		0.8	0.4	1.6	1.6	0	0.4	0.4	0	0	0	0
237-258		0.4	0.4	0.8	0.4	0	0.4	0.8	0	0	0	0
259-281		0	0.4	2	1.2	0.8	0.4	1.2	0	0	0	0
282-303		0	1.2	2	0.4	0	0	0	0	0	0	0
304-326		0	0	0.8	0.4	1.6	0	0	0	0	0	0
327-348		0.4	0.8	2	0.4	0.8	0.4	0	0.4	0	0	0



Bengaluru

April 300 hPa level

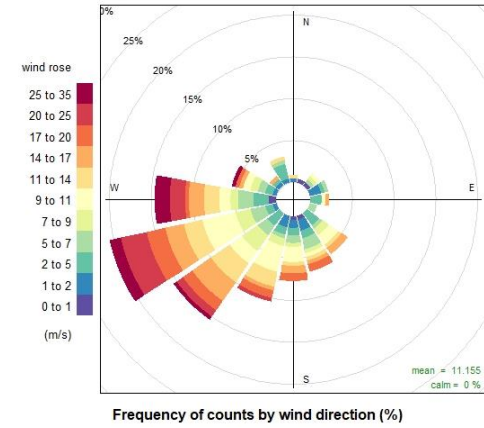
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	1.3	1.7	0	0	0	0	0	0	0
12-33		0	0	0.4	0	0.4	0.4	0.4	0	0	0	0
34-56		0	0	1.7	0.9	0.9	0	0.4	0	0	0	0
57-78		0	1.3	1.3	0	0	0	0	0	0	0	0
79-101		0	0	2.2	1.7	0.9	1.3	0.4	0	0	0	0
102-123		0.4	0.9	0.4	0	0.4	0	0	0	0	0	0
124-146		0.4	0.4	0.4	0.4	0	0.9	0.4	0.4	0	0	0
147-168		0	0	0.4	0.9	1.7	0.4	0	0	0	0	0
168-191		0.4	0	0.9	0.9	0	0.4	0	0	0	0	0
192-213		0	0	2.2	0.4	1.3	0.9	0.4	0	0.9	0	0
214-236		0.4	0	3.5	2.2	2.2	1.7	1.3	3	1.7	0.4	0
237-258		0	0.9	2.2	2.2	1.3	4.3	2.6	2.6	0.4	2.2	0
259-281		0	0.4	1.3	2.6	1.3	1.7	0.4	0.4	1.3	0.9	0.9
282-303		0	0	1.7	0	2.6	1.3	1.3	0.4	0	0	0
304-326		0.9	0.4	0.9	1.7	0.4	0	0.4	0.4	0	0	0
327-348		0.4	0.9	0.9	0.4	1.3	0.9	0.4	0	0	0	0



Bengaluru

April 200 hPa level

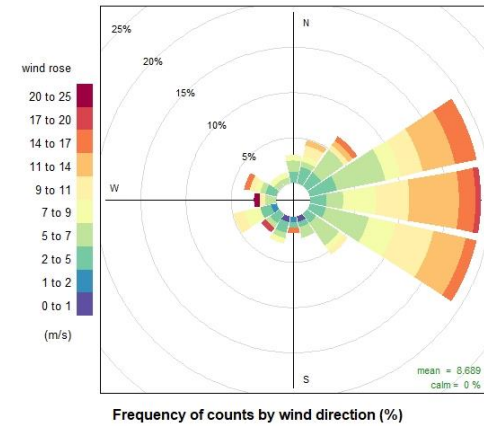
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.5	0	0	0	0	0.5	0	0	0	0
12-33		0.5	0	0	0	0	0	0	0	0	0	0
34-56		0.5	0	0	0.5	0.5	0.5	0	0	0	0	0
57-78		0	1.4	0.5	0.5	0	0	0	0	0	0	0
79-101		0	0	1.4	0	0	0.5	0	0.5	0	0	0
102-123		0	0	0	0.9	0	0	0	0	0	0	0
124-146		0	0	1.8	0.5	0.9	1.4	0.5	0.9	0	0	0
147-168		0.5	1.4	0.9	1.4	0.5	0.5	0.5	0.5	0.9	0	0
168-191		0.5	0.9	0.9	0.9	0.5	1.8	0.5	0.9	0.9	0	0
192-213		0	1.4	0.9	0.5	0.9	3.2	1.8	0.5	0.9	0.5	0
214-236		0	0	1.8	1.4	2.3	1.8	2.7	2.7	1.4	0.9	0.5
237-258		0	0.5	0.9	1.8	1.8	4.1	2.3	2.3	2.3	3.2	1.4
259-281		0.9	0	1.8	1.8	0.9	1.4	1.8	1.8	0.5	1.8	1.8
282-303		0	0.5	0.9	0.9	0.9	0.9	0	0.5	0.5	0	0.5
304-326		0	0.5	0.5	0	0	0	0	0.5	0	0	0
327-348		0	0.5	1.8	0.5	0	0	0.5	0	0	0	0



Bengaluru

April 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.2	1.2	0.6	0	0	0	0	0	0
12-33		0	0	1.8	0.6	0.6	1.2	0.6	0	0	0	0
34-56		0	0	1.8	3	0	0.6	0.6	0.6	0	0	0
57-78		0	0	3	5.5	1.8	2.4	3.7	2.4	0	0	0
79-101		0	0	1.8	1.8	3.7	3.7	5.5	1.8	0.6	0	0
102-123		0	0	1.8	4.9	3	4.3	3.7	1.2	0	0	0
124-146		0	0	1.2	3	0.6	0.6	0	0	0	0	0
147-168		0.6	0	0.6	1.2	0	0	0	0	0	0	0
168-191		0	0.6	0.6	0	0	0	0	0.6	0	0	0
192-213		0.6	0	1.2	0.6	0.6	0	0	0	0	0	0
214-236		0	0	1.2	0.6	0	0	0	0	0.6	0	0
237-258		0	0.6	1.2	0	1.8	1.2	0	0	0	0	0
259-281		0	0	0	1.2	0	0.6	0	0	0	0.6	0
282-303		0	0	1.2	0.6	0.6	0.6	0	0.6	0	0	0
304-326		0	0	0	0.6	0.6	0	0	0	0	0	0
327-348		0	0	0	0.6	0.6	0	0	0	0	0	0



Bengaluru**May****1000 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

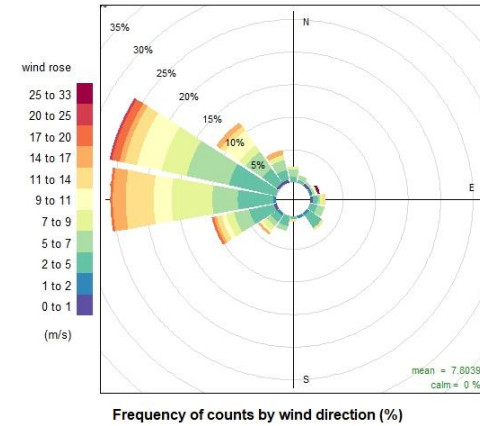
Bengaluru**May****925 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

May 850 hPa level

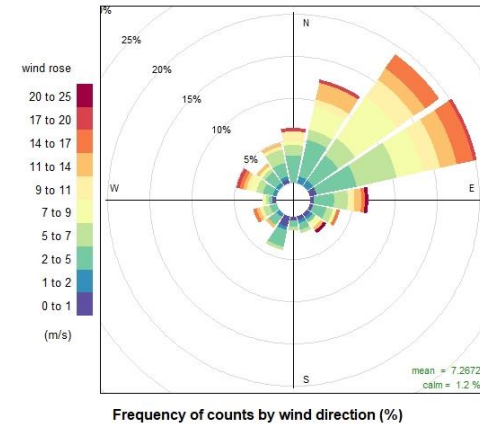
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.8	1.2	0.4	0	0	0	0	0	0
12-33		0	0	0.4	0.8	0	0	0	0	0	0	0
34-56		0.4	0	0	0.4	0	0	0	0	0	0	0
57-78		0	0.4	0	0.4	0	0.4	0	0	0	0	0.4
79-101		0.4	0	0.8	0.4	0.4	0	0.4	0	0	0	0
102-123		0	0	1.2	1.2	0	0	0	0	0	0	0
124-146		0	0.4	2.4	0	0	0	0.4	0	0	0	0
147-168		0	0.4	0	0	0	0	0	0	0	0	0
168-191		0	0	0.4	0	0	0	0.4	0	0	0	0
192-213		0	0	1.6	0.8	0	0	0	0	0	0	0
214-236		0	0.4	1.2	0.8	0.8	0.4	0	0.4	0	0	0
237-258		0.4	0	3.9	2.4	1.2	0.8	0.8	0.4	0.4	0	0
259-281		0	0.4	5.5	3.9	6.3	2.7	4.3	2	0.4	0	0
282-303		0	0	7.5	6.7	3.9	3.9	2	0.8	1.2	0.4	0
304-326		0.4	0	2.7	3.1	1.2	2.7	0.8	0.8	0	0	0
327-348		0.4	0	1.6	1.6	0.8	0	0	0.8	0	0	0



Bengaluru

May 700 hPa level

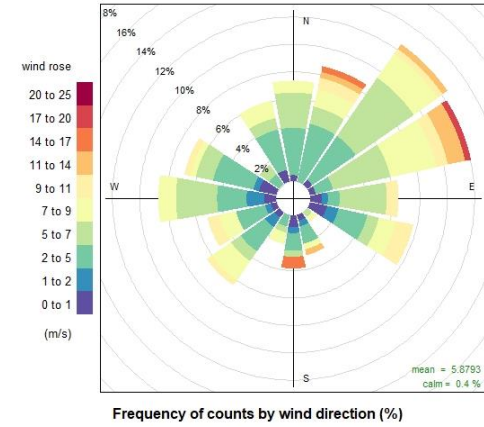
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0	3.2	1.2	0.4	1.2	0	0	0.4	0	0
12-33		0	0.8	4.5	1.2	2.8	0.8	2	0	0.4	0	0
34-56		0	0.8	3.6	2.4	6.1	2.4	1.6	2	0	0	0
57-78		0.8	0	4.9	4.9	3.2	2	2	2	0.4	0	0
79-101		0.4	0	2.4	1.6	0	0.8	0.8	0.4	0	0.4	0
102-123		0.4	0	1.6	0.8	0.4	0	0	0.4	0	0	0
124-146		0.4	0.4	0.4	0	0.8	0	0.4	0	0	0.4	0
147-168		0.4	0.4	0.8	0.4	0	0	0	0	0	0	0
168-191		0.4	0	0.8	0.4	0	0	0	0	0	0	0
192-213		1.2	0.4	2	0.4	0	0	0	0	0	0	0
214-236		0	0.4	1.2	0	0	0	0.4	0	0	0	0
237-258		0	0	0.8	0.8	0	0.4	0.4	0.4	0	0	0
259-281		0.4	0	0.4	0.4	0.4	0	0	0	0	0	0
282-303		0	0.4	1.2	0.8	0.8	0.4	0.4	0.4	0.4	0	0
304-326		0	0.4	1.6	0.4	0.4	0	0.4	0	0	0	0
327-348		0.4	0.4	1.6	1.6	0	0.4	0.4	0	0	0	0



Bengaluru

May 500 hPa level

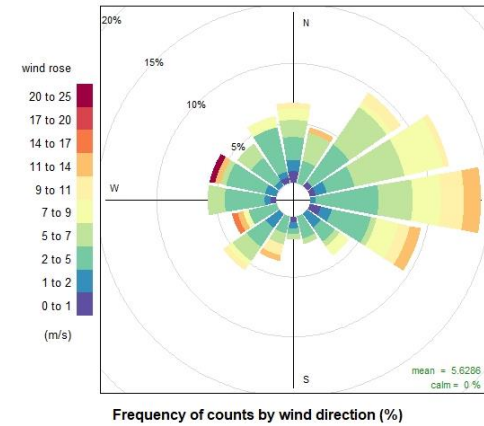
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0	3.4	2.6	0.9	0	0	0	0	0	0
12-33		0	0	4.3	1.3	1.3	0.9	0.4	0.4	0	0	0
34-56		0.4	0	3.9	5.2	2.2	0.4	0.4	0	0	0	0
57-78		0.4	0	1.3	4.3	3.4	0.9	1.3	0	0.4	0	0
79-101		0.9	0.4	0.9	3.4	0	0.9	0	0	0	0	0
102-123		1.3	0.9	2.2	0.9	1.3	1.3	0	0	0	0	0
124-146		0	0	0	0.4	0.4	0	0	0	0	0	0
147-168		0.4	0.4	1.3	0	0.4	0	0.4	0	0	0	0
168-191		0.9	0.4	1.3	0.4	0	0	0	0.9	0	0	0
192-213		0	0	0.9	0.4	0.9	0	0	0	0	0	0
214-236		0.4	0.9	2.2	0.9	1.7	0.4	0	0	0	0	0
237-258		0.4	0.4	2.2	0	1.3	0.9	0	0	0	0	0
259-281		0.9	1.3	2.2	3	1.3	0	0	0	0	0	0
282-303		1.3	0.4	3	1.3	0.4	0.4	0	0	0	0	0
304-326		0	0	0.9	0.9	0	0	0	0	0	0	0
327-348		0.9	0	3	0.9	1.3	0	0	0	0	0	0



Bengaluru

May 300 hPa level

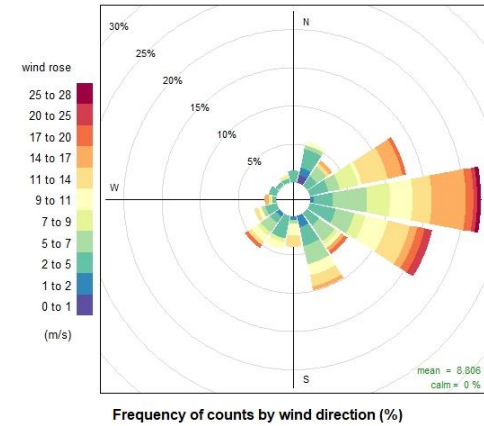
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1	1	1.9	1.4	1	0.5	0	0	0	0	0
12-33		0	0	1.9	2.4	0	0	0.5	0	0	0	0
34-56		0.5	0	3.8	3.8	0.5	1	0	0	0	0	0
57-78		0.5	1	2.4	4.3	3.3	0.5	0	0	0	0	0
79-101		0	0.5	5.2	2.9	2.4	1.9	1.4	0	0	0	0
102-123		1	1	3.3	0.5	1.9	1	1	0	0	0	0
124-146		0	1.4	1.4	0.5	1	0	0	0	0	0	0
147-168		0	0	1.9	0.5	0	0	0	0	0	0	0
168-191		0.5	0.5	0.5	0.5	0	0	0	0	0	0	0
192-213		0	0	1.4	1	0	1	0.5	0	0	0	0
214-236		0	1.4	1.9	1.4	0.5	0.5	0	0	0	0	0
237-258		0	0	2.4	0	0.5	0	0.5	0.5	0	0	0
259-281		0.5	0.5	3.3	1.4	0	0	0	0	0	0	0
282-303		0	1	3.3	0.5	0	0	0.5	0	0	0.5	0
304-326		0	0.5	2.4	1.4	0	0	0	0	0	0	0
327-348		0.5	0.5	3.8	0	1	0	0	0	0	0	0



Bengaluru

May 200 hPa level

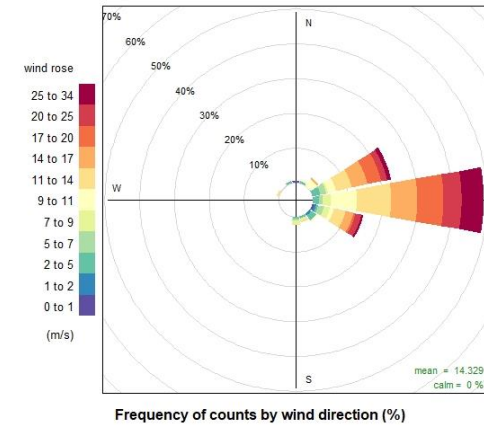
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.5	0	0	0	0	0	0	0	0
12-33		1	1	2.5	0.5	0	0.5	0	0	0	0	0
34-56		0	0	1.5	1.5	0	0	0.5	0.5	0	0	0
57-78		0	0	2.5	1.5	2.5	0.5	3.5	2	0.5	0	0
79-101		0	0.5	2.5	4.5	3	3	2.5	4.5	1	0.5	0.5
102-123		0	0	3.5	2.5	1.5	3	3	1	1	1	0
124-146		0	0	2	2.5	0.5	0.5	0	0.5	0.5	0	0
147-168		0	1.5	2	2.5	0	1.5	1.5	0.5	0	0	0
168-191		0	0.5	0.5	0.5	0	1.5	1.5	0	0	0	0
192-213		0	0	3	0	0.5	1	0	0	0	0	0
214-236		0	0.5	1	1.5	0.5	1	0.5	0	0.5	0	0
237-258		0	0	1.5	0.5	0	0.5	0.5	0	0	0	0
259-281		0	0	0.5	0	0.5	0	0	0.5	0	0	0
282-303		0	0	1	0	0	0	0	0	0	0	0
304-326		0	0	0.5	0	0	0	0	0	0	0	0
327-348		0	0	0.5	0	0.5	0	0	0	0	0	0



Bengaluru

May 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0.6	0	0	0.6	0	0	0	0	0
34-56		0	0	0	0	0	2.3	0	0.6	0	0	0
57-78		0	0	2.3	1.7	0.6	2.3	4.6	4.6	4	1.7	1.2
79-101		0	0	1.7	1.2	2.3	7.5	9.8	7.5	7.5	5.2	6.4
102-123		0.6	0.6	0.6	1.7	1.7	1.2	3.5	2.3	0.6	1.7	0.6
124-146		0	0.6	1.7	0	0	0.6	0	0	0	0	0
147-168		0	0	0.6	0	0.6	0	0.6	0	0	0	0
168-191		0	0	0.6	0.6	1.2	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0.6	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.6	0	0	0	0	0	0	0	0



Bengaluru

June

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

June

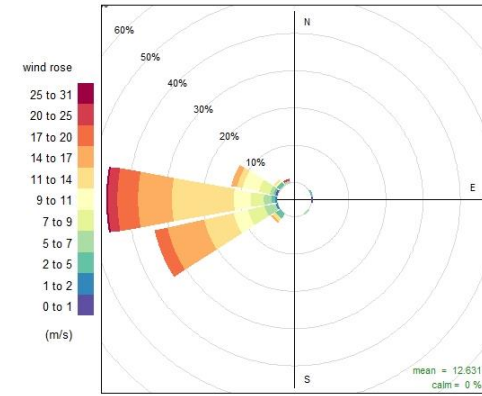
925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

June 850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0.5	0	0	0	0	0	0	0	0
79-101		0.5	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0.5	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	1.5	0	0	0	1	0.5	0	0	0
237-258		0	0.5	0	3	4.5	4	8.1	10.1	3.5	0	0
259-281		0	0.5	1	2	3.5	4.5	16.7	9.1	5.6	2.5	0.5
282-303		0.5	0	0.5	1	3	4.5	1.5	1.5	0	0	0
304-326		0	0	1	0	0	0.5	0.5	0	0	0	0
327-348		0	0	0	0.5	0	0	0	0	0	0.5	0

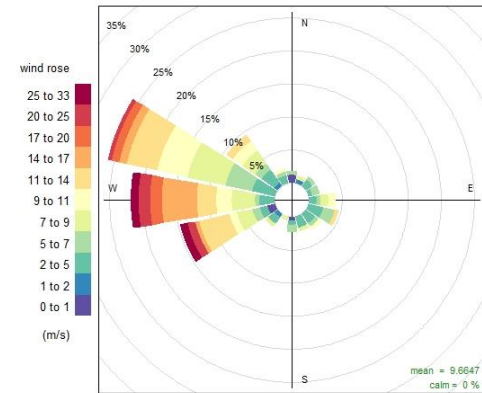


Frequency of counts by wind direction (%)

Bengaluru

June 700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1.2	0	0	0.6	0	0	0	0	0	0	0
12-33		0	0.6	0	0	0.6	0	0	0	0	0	0
34-56		0	0	1.2	0.6	0	0	0	0	0	0	0
57-78		0	0	0.6	1.2	0	0	0	0	0	0	0
79-101		0	0	1.2	0.6	1.2	1.2	0	0	0	0	0
102-123		0	0	2.4	1.8	0	0	0.6	0	0	0	0
124-146		0	0	1.8	0.6	0	0.6	0	0	0	0	0
147-168		0	0	1.8	0	0.6	0	0	0	0	0	0
168-191		0.6	0	0.6	1.2	0	0	0	0	0	0	0
192-213		0	0	0	0	0.6	0	0	0	0	0	0
214-236		0	0.6	1.2	0	0.6	0	0	0	0	0	0
237-258		1.2	0	1.2	1.2	2.4	1.2	4.7	0.6	0	1.2	1.2
259-281		0	0	2.4	0.6	3.5	2.4	2.9	5.3	1.8	1.8	1.2
282-303		0	0	3.5	4.1	5.9	4.7	4.7	1.2	1.2	0.6	0
304-326		0	0.6	2.4	1.2	2.4	1.8	1.2	0	0	0	0
327-348		0	0	1.2	0.6	0	0.6	0	0	0	0	0

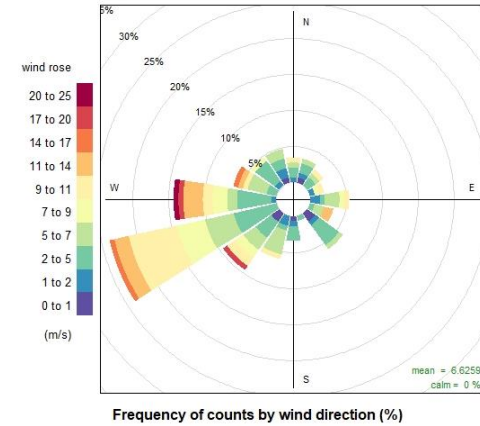


Frequency of counts by wind direction (%)

Bengaluru

June 500 hPa level

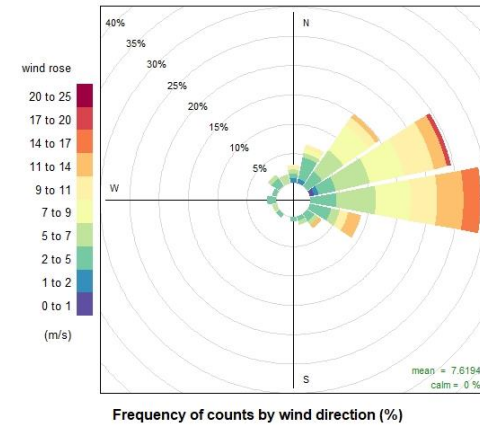
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.7	1.4	0.7	0	0.7	0	0	0	0	0
12-33		0.7	0.7	1.4	0.7	0	0	0	0	0	0	0
34-56		0	0	1.4	0.7	0	0.7	0	0	0	0	0
57-78		0	0.7	0	0	0.7	0.7	0	0	0	0	0
79-101		0	1.4	0.7	2	0.7	0.7	0	0	0	0	0
102-123		0	0	0.7	1.4	0	0	1.4	0	0	0	0
124-146		1.4	0.7	3.4	0.7	0	0	0	0	0	0	0
147-168		0	0	0.7	0	0	0	0	0	0	0	0
168-191		0.7	0.7	2	0	0	0	0	0	0	0	0
192-213		0	1.4	0.7	3.4	0	0.7	0	0	0	0	0
214-236		1.4	0	2.7	2	1.4	1.4	0	0	0.7	0	0
237-258		0	0	6.1	4.1	4.1	6.8	2	0.7	0	0	0
259-281		0	0.7	4.8	1.4	2	1.4	2.7	0	0.7	0.7	0
282-303		0	0	1.4	2.7	0	0.7	0.7	0.7	0	0	0
304-326		0	0.7	3.4	0	0.7	0	0	0	0	0	0
327-348		0.7	1.4	1.4	1.4	0	0	0	0	0	0	0



Bengaluru

June 300 hPa level

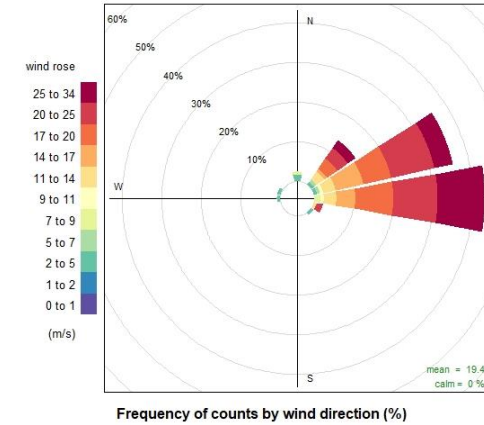
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.7	0.7	0.7	0	0.7	0	0	0	0	0
12-33		0	0.7	3.7	0.7	0.7	0.7	0	0	0	0	0
34-56		0	0	3	4.5	5.2	1.5	0.7	0	0	0	0
57-78		0.7	0.7	3	6	6	5.2	2.2	0	0.7	0	0
79-101		0	0	4.5	6.7	6	4.5	4.5	3	0	0	0
102-123		0	0	3.7	1.5	0	1.5	2.2	0	0	0	0
124-146		0	0	1.5	0.7	0	0	0.7	0	0	0	0
147-168		0	0	0.7	0.7	0	0	0	0	0	0	0
168-191		0	0	0.7	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0.7	0	0	0	0	0	0	0	0
237-258		0	0	0	0.7	0	0	0	0	0	0	0
259-281		0	0	1.5	0	0	0	0	0	0	0	0
282-303		0	0	0.7	0	0	0	0	0	0	0	0
304-326		0	0	1.5	0.7	0	0	0	0	0	0	0
327-348	0	0	0	1.5	0	0	0	0	0	0	0	



Bengaluru

June 200 hPa level

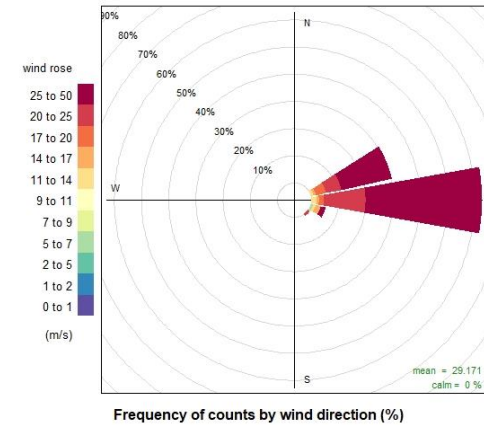
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.6	0	0.8	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0.8	0.8	0	0	2.4	0.8	3.2	3.2	2.4
57-78		0	0	0.8	0.8	0	0.8	3.2	7.2	7.2	11.2	4.8
79-101		0	0	0	0	1.6	0.8	3.2	4.8	9.6	11.2	12
102-123		0	0	0	0	0	0	0.8	0	0	1.6	0
124-146		0	0	0.8	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0.8	0	0	0	0	0	0	0	0
282-303		0	0	0.8	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Bengaluru

June 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	1	1	3.8	5.7	19
79-101		0	0	0	0	0	0	1.9	1	1.9	15.2	42.9
102-123		0	0	0	1	0	0	1	1.9	0	0	1.9
124-146		0	0	0	0	0	0	0	0	0	1	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Bengaluru

July

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

July

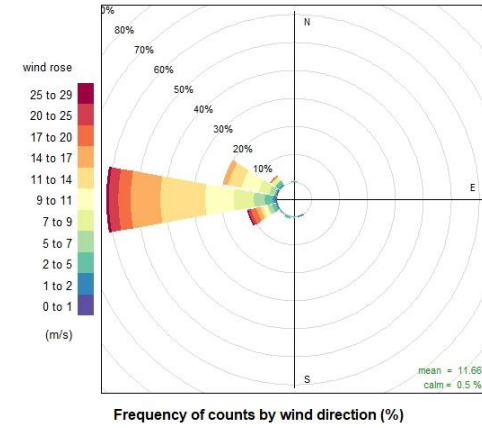
925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

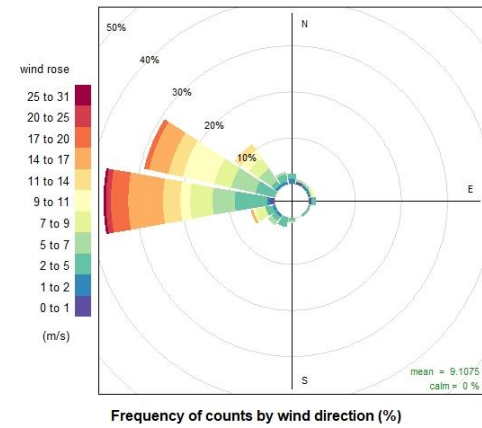
July 850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.5	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0.5	0	0	0	0	0	0	0	0	0
168-191		0	0	0.5	0	0	0	0	0	0	0	0
192-213		0	0	1	0	0	0	0	0	0	0	0
214-236		0	0	0.5	0	0	0	0	0	0	0	0
237-258		0	0.5	1.5	1.5	0.5	1.5	1	1.5	1.9	1	0.5
259-281		0.5	1	2.9	3.9	7.3	10.2	16	10.7	4.4	3.4	1
282-303		0.5	0	0.5	1.9	3.9	6.3	4.9	1.9	0	0	0
304-326		0	0.5	1.5	0	1.5	0	0.5	0	0.5	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Bengaluru July 700 hPa level

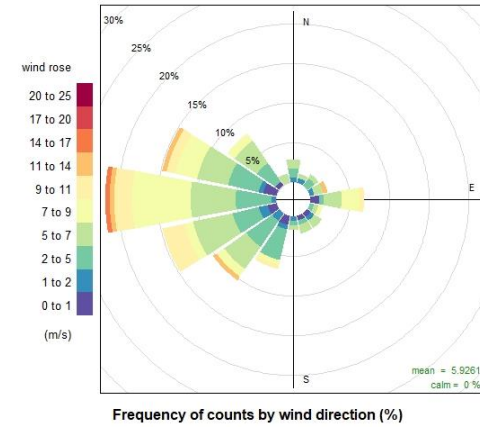
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.1	1.1	0	0	0	0	0	0	0	0
12-33		0.5	0	0	0.5	0	0	0	0	0	0	0
34-56		0	0.5	0	0.5	0	0	0	0	0	0	0
57-78		0	0.5	0	0	0.5	0.5	0	0	0	0	0
79-101		0.5	0	1.1	0	0	0	0	0	0	0	0
102-123		0	0	0.5	0	0	0	0	0	0	0	0
124-146		0	0	0.5	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.5	0.5	0	0	0	0	0	0	0
192-213		0	0	2.2	0	0	0	0	0	0	0	0
214-236		0	0.5	1.1	1.1	0	0	0	0	0	0	0
237-258		0	0.5	1.6	0	2.2	0.5	0	0.5	0	0	0
259-281		1.1	0.5	7	4.8	4.8	2.2	3.8	7.5	3.8	1.1	0.5
282-303		0	0	4.3	5.4	3.8	7	3.2	4.3	1.1	0	0
304-326		0	0.5	1.1	3.2	2.7	2.2	1.6	0	0	0	0
327-348		0	0.5	1.6	0.5	0	0	0	0	0	0	0



Bengaluru

July 500 hPa level

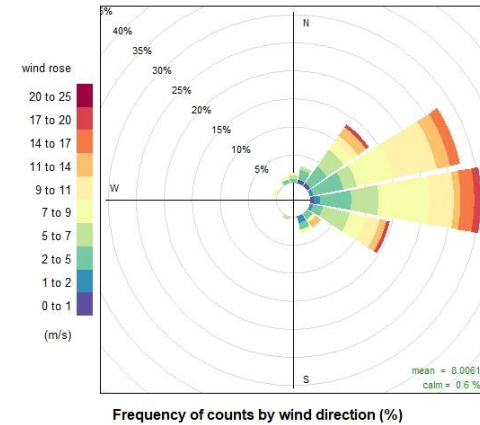
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.6	1.1	1.1	0	0	0	0	0	0	0
12-33		0	0.6	0	0.6	0	0	0	0	0	0	0
34-56		0	0	1.1	0.6	0	0	0	0	0	0	0
57-78		0	0.6	0	1.1	0	0	0.6	0	0	0	0
79-101		1.1	0	0.6	2.3	2.3	0.6	0	0	0	0	0
102-123		0	0	0.6	0.6	0.6	0	0	0	0	0	0
124-146		0.6	0.6	0	1.1	0	0	0	0	0	0	0
147-168		0.6	0	0.6	1.1	0	0	0	0	0	0	0
168-191		0	0.6	0.6	0.6	0	0	0	0	0	0	0
192-213		1.1	0.6	4	0	0.6	0.6	0	0	0	0	0
214-236		0	1.1	4	3.4	1.1	0	0.6	0	0	0	0
237-258		1.1	1.1	3.4	5.1	1.1	2.8	0	0	0	0	0
259-281		0	0.6	4.5	5.7	7.4	2.3	0.6	0.6	0	0	0
282-303		1.7	0.6	4	4	2.8	1.1	0.6	0	0	0	0
304-326		0.6	0	2.8	3.4	1.1	0	0	0	0	0	0
327-348		0	0	0	1.1	0	0	0	0	0	0	0



Bengaluru

July 300 hPa level

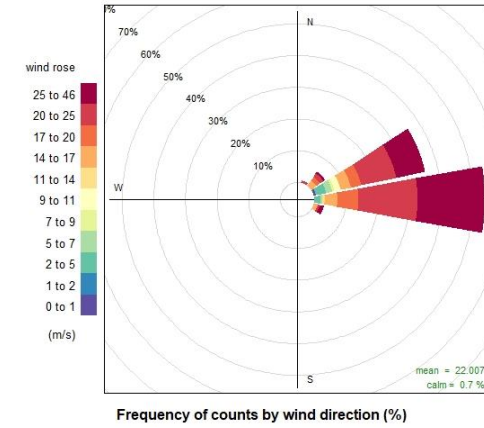
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0	0.6	0.6	0.6	0	0	0	0	0	0
12-33		0.6	0	1.8	0.6	0	0	0	0	0	0	0
34-56		0.6	0	3.7	3.7	1.8	1.2	1.8	0	0.6	0	0
57-78		0	0.6	5.5	2.4	6.7	7.9	2.4	1.8	0	0	0
79-101		0.6	1.2	5.5	4.9	9.1	4.3	1.2	2.4	1.2	0	0
102-123		0	0.6	1.8	4.9	3	2.4	1.2	0	0.6	0	0
124-146		0	0	1.2	0	0.6	0	1.2	0	0	0	0
147-168		0	1.2	1.2	0	0.6	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0.6	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0.6	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.6	0	0.6	0	0	0	0	0	0



Bengaluru

July 200 hPa level

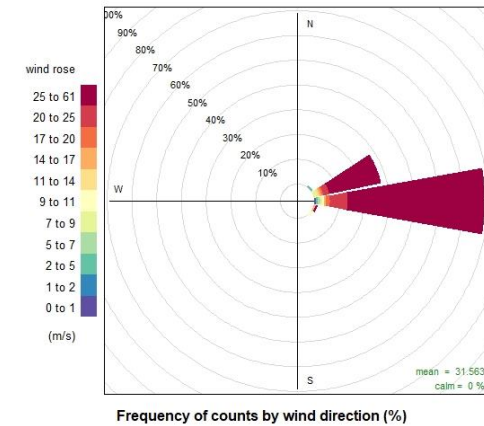
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	1	0	0	0	0	0	0	0	0	0	0	0	
12-33		0	0	0	0	0	0	0	0	0	0.7	0	
34-56		0	0	0	0	0	0	0	0	2	1.3	1.3	0.7
57-78		0.7	0	3.3	2	0.7	2	0	3.3	3.3	11.3	9.3	
79-101		0	0	2	0.7	0	0	0.7	4	6.7	18.7	21.3	
102-123		0	0	0	0	0	0	0	1.3	0	0.7	1.3	
124-146		0	0	0	0	0	0	0	0	0	0	0	
147-168		0	0	0	0	0	0	0	0	0	0	0	
168-191		0	0	0	0	0	0	0	0	0	0	0	
192-213		0	0	0	0	0	0	0	0	0	0	0	
214-236		0	0	0	0	0	0	0	0	0	0	0	
237-258		0	0	0	0	0	0	0	0	0	0	0	
259-281		0	0	0	0	0	0	0	0	0	0	0	
282-303		0	0	0	0	0	0	0	0	0	0	0	
304-326		0	0	0	0	0	0	0	0	0	0	0	
327-348		0	0	0	0	0	0	0	0	0	0	0	



Bengaluru

July 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0.8	0	0	0	0	0	0	0	0
57-78		0	0	0	0	1.6	0	0.8	0.8	0.8	2.4	21.4
79-101		0.8	0	0.8	0.8	0.8	0.8	0	0.8	1.6	7.1	55.6
102-123		0	0	0	0	0	0	0	0.8	0	0	0.8
124-146		0	0	0	0	0	0	0.8	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Bengaluru

August

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

August

925 hPa level

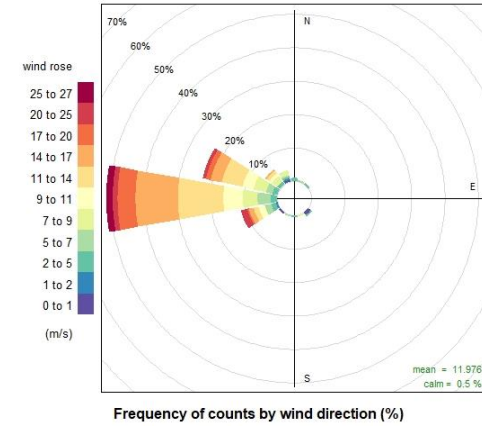
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

August

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	1	0	0	0	0	0	0	0	0	
12-33		0	0	0	0.5	0	0	0	0	0	0	0	0
34-56		0	0	0.5	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0	0
124-146		1	0	0.5	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0.5	0	0	0	0	0	0
168-191		0	0	0.5	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0.5	0	0	0	0	0	0	0	0
214-236		0.5	0	0	0	0	0	0	0	0	0	0	0
237-258		0	0.5	1.5	2	0	2	1.5	1.5	0.5	2	0	0
259-281		0	0	2	3.9	4.4	5.9	13.7	12.7	5.4	1.5	2	0
282-303		0	0	1.5	2	3.9	3.4	6.3	3.4	1.5	1	0	0
304-326		0	0	1	0	2	1	1	0.5	0	0	0	0
327-348		0.5	0.5	0.5	0.5	1.5	0	0	0	0	0	0	0

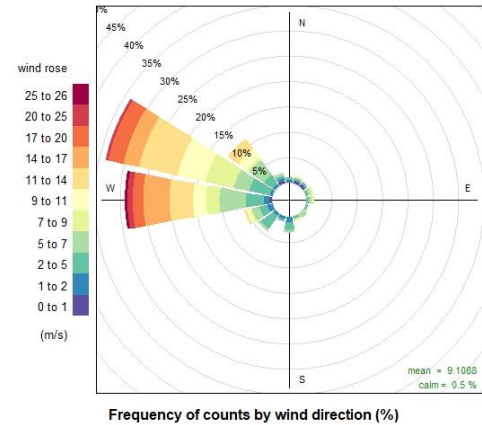


Bengaluru

August

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	1	0	0.5	0.5	0	0	0	0	0	0	0	0	
12-33		0.5	0	0.5	0	0.5	0	0	0	0	0	0	
34-56		0.5	0	0.5	0	0	0	0	0	0	0	0	
57-78		0	0	0.5	0.5	0.5	0	0	0	0	0	0	
79-101		0	0	0.5	0.5	0.5	0	0	0	0	0	0	
102-123		0	0	0.5	0	0	0	0	0	0	0	0	
124-146		0	0	0	1	0	0	0	0	0	0	0	
147-168		0	0	0.5	0	0.5	0	0	0	0	0	0	
168-191		0	1	1.6	0.5	0	0	0	0	0	0	0	
192-213		0	0.5	0.5	0	0	0	0	0	0	0	0	
214-236		0	0.5	3.1	0.5	0	0	0	0	0	0	0	
237-258		0	1	1.6	1.6	0.5	0.5	0.5	0	0	0	0	
259-281		0.5	1	3.6	5.2	2.6	2.6	4.7	5.2	2.1	1	0.5	
282-303		0	0.5	4.1	3.1	5.7	5.7	7.8	3.1	3.1	0.5	0	
304-326		0	0.5	2.1	3.6	0.5	2.1	2.6	0	0	0	0	
327-348		0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0

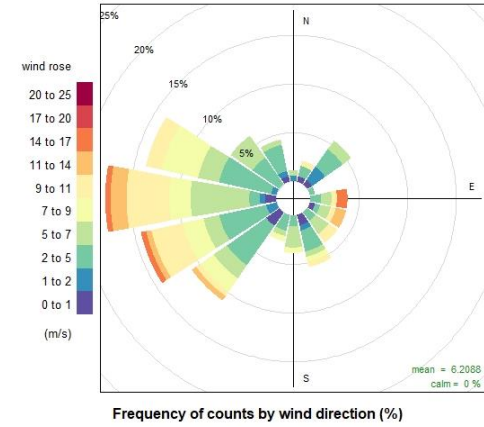


Bengaluru

August

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.5	0	0.5	0	0	0	0	0	0	0
12-33		0.5	0	1.1	0	0	0.5	0	0	0	0	0
34-56		0.5	1.6	2.2	1.1	0	0	0	0	0	0	0
57-78		0	0	0.5	0	0	0	0	0	0	0	0
79-101		0	0	1.1	1.1	0	0.5	0	1.1	0	0	0
102-123		0.5	0	0.5	1.1	0	0.5	1.1	0	0	0	0
124-146		0	0	1.1	1.6	0	1.1	0	0	0	0	0
147-168		1.1	0.5	2.2	0.5	0.5	0.5	0	0	0	0	0
168-191		0	0	1.1	2.2	0.5	0	0	0	0	0	0
192-213		0	0	1.6	0.5	0.5	0	0	0	0	0	0
214-236		1.6	0	4.9	1.6	1.6	0.5	0.5	0	0	0	0
237-258		0	1.1	4.9	1.6	2.2	3.3	0.5	0.5	0	0	0
259-281		1.1	0.5	1.1	6	2.2	4.4	1.6	0.5	0	0	0
282-303		0	0.5	5.5	2.2	3.8	1.6	0	0	0	0	0
304-326		0	0	3.3	2.7	0	0	0	0	0	0	0
327-348		0.5	0.5	2.7	0.5	0	0	0	0	0	0	0

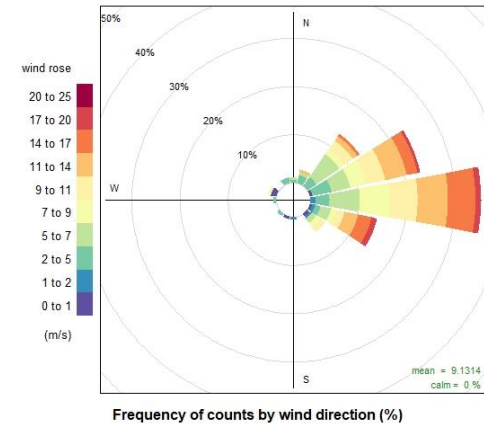


Bengaluru

August

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.6	0.6	0	0	0	0	0	0	0
12-33		0	0	1.7	0.6	0	0	0.6	0	0	0	0
34-56		0	0	2.3	5.7	1.1	2.3	1.1	0.6	0	0	0
57-78		0.6	0	4	4	3.4	4	4.6	2.3	0.6	0	0
79-101		0	1.1	2.9	6.3	6.3	5.7	6.3	5.7	1.1	0	0
102-123		0.6	0.6	1.1	2.3	1.1	1.7	2.9	2.9	1.1	0	0
124-146		0.6	0.6	0	1.1	1.1	1.1	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0.6	0	0	0	0	0	0	0	0	0
192-213		0.6	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0.6	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0.6	0	0	0	0	0	0	0	0
282-303		1.1	0	0	0	0.6	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	1.1	0	0	0	0	0	0	0	0

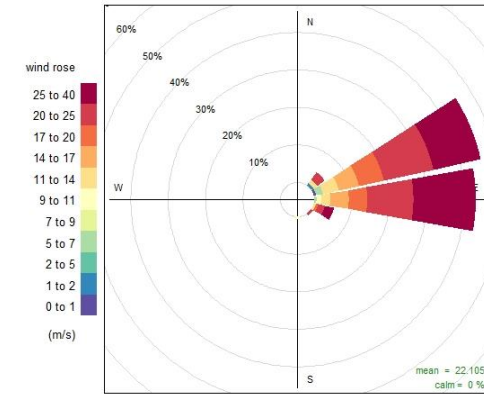


Bengaluru

August

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0.4
34-56	0	0	0	0	0	0	0	0	0	0.8	0	0
57-78	0	0	0	0	0	0.4	0.8	1.6	2.4	2	5.3	2.4
79-101	0	0	0.4	0	0	0	1.2	4.9	11.3	14.2	16.2	17.4
102-123	0	0	0	0.4	0	0	0.4	2	2	2	8.1	1.2
124-146	0	0	0	0	0	0	0	0	0	0.4	0.4	0
147-168	0	0	0	0	0	0	0	0	0	0	0	0
168-191	0	0	0	0	0	0	0	0	0	0	0.4	0
192-213	0	0	0	0	0	0	0	0	0	0.4	0	0
214-236	0	0	0	0	0	0	0	0	0	0.4	0	0
237-258	0	0	0	0	0	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	0	0	0	0	0	0
282-303	0	0	0	0	0	0	0	0	0	0	0	0
304-326	0	0	0	0	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0



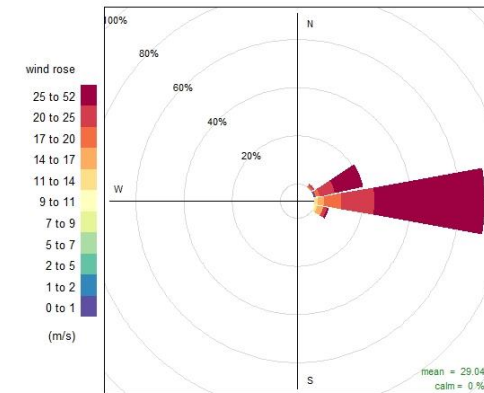
Frequency of counts by wind direction (%)

Bengaluru

August

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	0	0	0	0.8	0.8	0
57-78	0.8	0	0	0	0	0	0	0	0	1.6	6.5	12.1
79-101	0	0	0	0	0	0	0	1.6	2.4	7.3	13.7	46
102-123	0	0	0	0	0	0	0.8	0.8	2.4	0	1.6	0.8
124-146	0	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0	0	0	0	0	0	0	0	0	0	0
168-191	0	0	0	0	0	0	0	0	0	0	0	0
192-213	0	0	0	0	0	0	0	0	0	0	0	0
214-236	0	0	0	0	0	0	0	0	0	0	0	0
237-258	0	0	0	0	0	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	0	0	0	0	0	0
282-303	0	0	0	0	0	0	0	0	0	0	0	0
304-326	0	0	0	0	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0



Frequency of counts by wind direction (%)

Bengaluru

September

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

September

925 hPa level

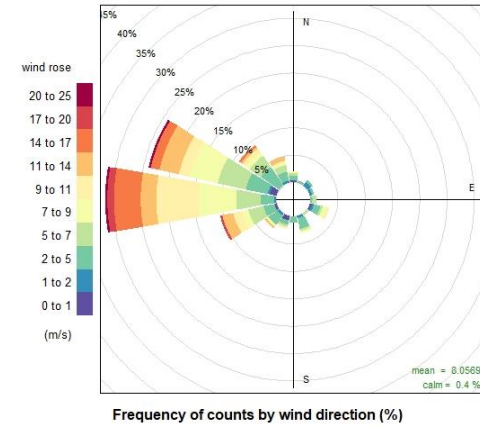
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

September

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0	0.8	0.4	0.4	0	0	0	0	0	0
12-33		0	0	0.4	0	0	0	0	0	0	0	0
34-56		0	0.8	0.4	0	0	0	0	0	0	0	0
57-78		0	0.4	0.4	0	0	0	0	0	0	0	0
79-101		0	0	0.4	0.8	0	0	0	0	0	0	0
102-123		0.4	0.4	1.2	0.4	0.8	0.4	0	0	0	0	0
124-146		0	0	0	0.4	0	0	0	0	0	0	0
147-168		0	0.4	2	0.4	0.4	0	0	0	0	0	0
168-191		0	0	1.2	0	0	0	0	0	0	0	0
192-213		0.8	0	0.8	0.4	0	0.4	0	0	0	0	0
214-236		0	0.4	2	0	0.4	0	0.4	0	0	0	0
237-258		0.4	0	2	2.8	1.2	1.6	2	0	0.4	0	0
259-281		0	0.4	2.4	4.5	6.9	7.7	2.8	4.9	1.2	0.4	0
282-303		1.2	0.4	4.1	5.3	5.3	2	3.7	1.6	0	0.4	0
304-326		0	0	4.1	2.4	0.8	0.8	0.4	0.4	0	0	0
327-348		0	0.4	1.6	1.2	0.4	0.4	0.8	0	0	0	0

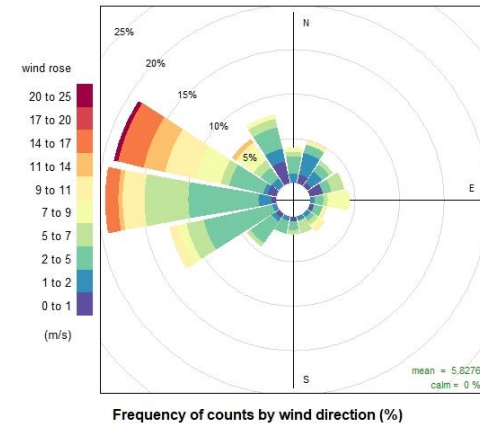


Bengaluru

September

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1	2	0.5	0.5	0	0	0	0	0	0
12-33		1	2.5	1	0	0	0.5	0	0	0	0	0
34-56		0.5	1.5	1	0.5	0	0	0	0	0	0	0
57-78		1.5	0	1	1.5	0	0	0	0	0	0	0
79-101		0	0.5	1	0.5	2.5	0	0	0	0	0	0
102-123		0.5	0	1	0	0	0.5	0	0	0	0	0
124-146		0	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0
147-168		0	0.5	0	1.5	0	0	0	0	0	0	0
168-191		0.5	0	1	0.5	0	0	0	0	0	0	0
192-213		0	0.5	1.5	0	0	0	0	0	0	0	0
214-236		0.5	0.5	3	0.5	0	0	0	0	0	0	0
237-258		0	0.5	7.9	2	1	1	0	0	0	0	0
259-281		0.5	1.5	7.9	4.9	0	2.5	0.5	1.5	0	0	0
282-303		1	0.5	3.9	1	3	3.4	2.5	3	0	0.5	0
304-326		0	1	1.5	1	2	0.5	0.5	0	0	0	0
327-348		2.5	1.5	2.5	1	0.5	0	0	0	0	0	0

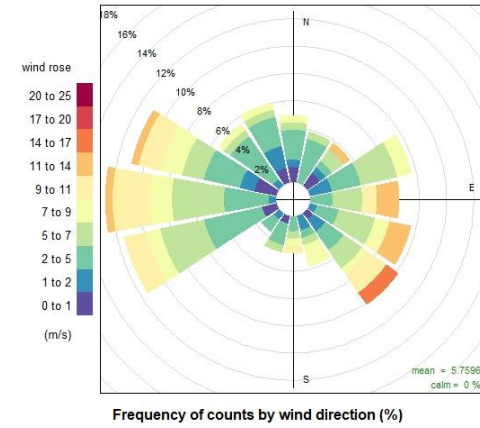


Bengaluru

September

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1.1	0.5	2.2	0.5	0.5	0	0	0	0	0	0
12-33		0	0	3.3	0.5	0	0	0	0	0	0	0
34-56		1.1	0.5	0.5	1.1	0	0	0.5	0	0	0	0
57-78		0	1.6	2.2	2.7	1.1	0	0	0	0	0	0
79-101		0	0	1.6	2.2	0	1.1	1.6	0	0	0	0
102-123		0	0.5	1.6	2.7	1.1	0	1.6	0	0	0	0
124-146		0.5	1.1	1.6	1.6	0.5	1.6	0	1.1	0	0	0
147-168		0	1.1	0.5	0.5	1.6	0	0	0	0	0	0
168-191		0	0	1.1	0.5	0.5	0.5	0	0	0	0	0
192-213		0.5	0	1.6	0.5	0	0	0	0	0	0	0
214-236		0	0.5	1.1	0	0	0	0	0	0	0	0
237-258		1.1	0	4.4	3.3	1.1	1.6	0	0	0	0	0
259-281		0	0.5	3.3	3.8	1.6	2.7	0.5	0	0	0	0
282-303		1.6	1.1	2.7	1.6	1.6	1.6	0.5	0	0	0	0
304-326		0	0.5	3.8	0.5	0.5	0	0	0	0	0	0
327-348		1.1	1.6	2.2	0.5	0.5	0	0	0	0	0	0

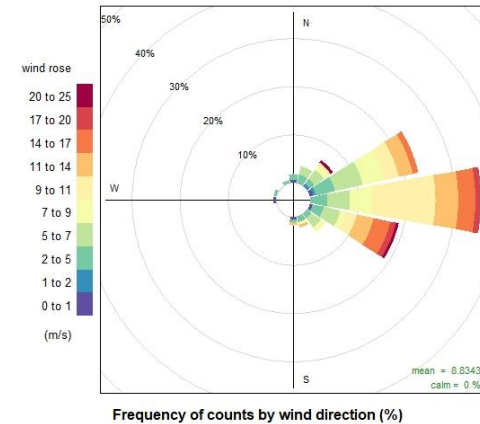


Bengaluru

September

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	0	1.2	0	0	0	0	0	0	0	0
12-33		0	0	1.8	1.8	0	0	0	0	0	0	0
34-56		0	0.6	1.2	2.4	1.2	0.6	0	0	0	0.6	0
57-78		0.6	0.6	4.1	5.9	4.7	3	3	1.2	0	0	0
79-101		0	0	3.6	4.7	4.7	13	4.7	3.6	1.2	0	0
102-123		0.6	0	2.4	3.6	1.2	2.4	3.6	3.6	1.2	0.6	0
124-146		0	0	1.2	2.4	1.2	0	0	0	0	0	0
147-168		0	0	1.2	0	0.6	0	0.6	0	0	0	0
168-191		0.6	0	0.6	0	0	0	0	0.6	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0.6	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0.6	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.6	0	0	0	0	0	0	0	0

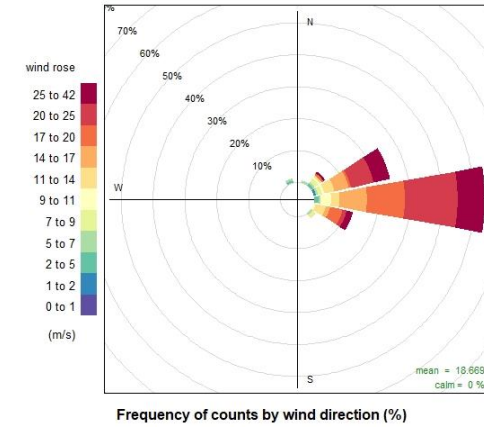


Bengaluru

September

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0.7	0	0	0	0	0	0	0
34-56		0	0	0.7	0.7	1.3	0.7	0.7	0	0.7	0	0.7
57-78		0	0.7	0	0.7	1.3	0.7	3.3	4.6	0.7	7.3	5.3
79-101		0	0	1.3	0.7	0	3.3	2.6	8.6	11.9	16.6	8.6
102-123		0	0	0	0	0	0.7	3.3	1.3	4	1.3	2
124-146		0	0	0	0.7	0.7	0	0.7	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.7	0.7	0	0	0	0	0	0	0

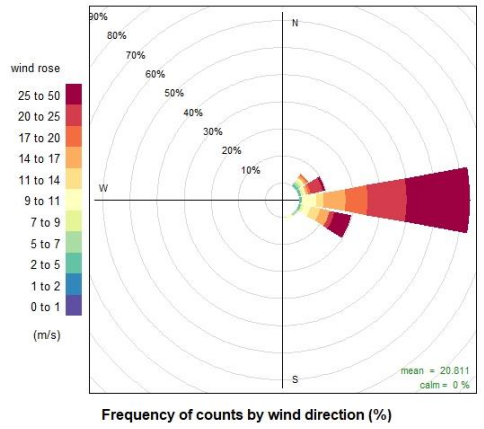


Bengaluru

September

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0.9	0.9	0.9	0.9	0	0.9	0.9	0	0
57-78		0	0	0.9	0	0.9	0.9	0	0.9	0.9	4.5	0.9
79-101		0	0	0.9	0	0	5.4	2.7	8.1	8.1	14.4	23.4
102-123		0	0	0.9	0	0.9	2.7	3.6	3.6	0	1.8	6.3
124-146		0	0	0	0.9	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0.9	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Bengaluru

October

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

October

925 hPa level

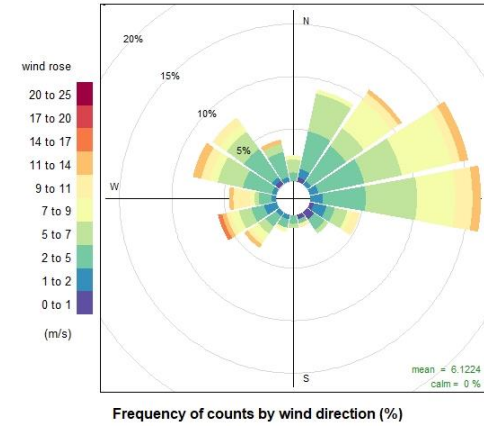
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

October

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.8	1.2	0.4	0	0	0	0	0	0
12-33		0.4	0.8	3.7	3.7	0.4	0	0	0	0	0	0
34-56		0	0.4	4.1	2	3.3	0.8	0.4	0	0	0	0
57-78		0	0.8	4.5	3.7	4.9	0.8	0.8	0	0	0	0
79-101		0	1.2	4.1	4.9	3.7	1.6	0.8	0	0	0	0
102-123		0.4	1.2	0.8	1.2	0.4	0.8	0	0	0	0	0
124-146		0.8	0	1.2	0.4	0	0	0	0	0	0	0
147-168		0.4	0	0.4	0	0	0.4	0	0	0	0	0
168-191		0	0	0.8	0.4	0	0	0	0	0	0	0
192-213		0	0.4	0.8	0	0.4	0	0	0	0	0	0
214-236		0	0.4	1.2	0.8	0.8	0.4	0.4	0	0	0	0
237-258		0	1.2	1.2	1.2	0.8	0.4	0.4	0.4	0	0	0
259-281		0	0.4	1.2	0.4	0.4	1.6	0.4	0	0	0	0
282-303		0	0.4	2.9	2.4	0.8	0.8	0.8	0	0	0	0
304-326		0.4	0.4	3.3	2	0.8	0.8	0	0	0	0	0
327-348		0	0.4	2.4	0.8	0	0	0.4	0	0	0	0

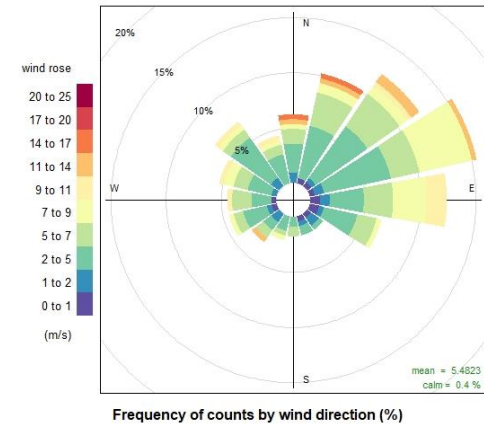


Bengaluru

October

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.9	2.7	1.3	0.4	0	0.4	0.4	0	0	0
12-33		0.4	0	4.9	3.1	0.9	0	0.4	0.4	0	0	0
34-56		0.4	0.4	5.8	3.5	0.9	0.4	0.9	0	0	0	0
57-78		0.4	0.9	6.2	2.7	4.9	0	0.4	0	0	0	0
79-101		0.9	0.9	3.1	2.7	3.1	1.8	0	0	0	0	0
102-123		0.9	0.4	3.1	1.8	0.4	0	0	0	0	0	0
124-146		0.4	0.9	0.4	0	0	0	0	0	0	0	0
147-168		0.4	0.4	0.9	0	0	0	0	0	0	0	0
168-191		0	0	0.9	0.9	0	0	0	0	0	0	0
192-213		0	0	1.3	0.4	0.4	0	0	0	0	0	0
214-236		0	0.9	0.9	0.9	0	0	0.4	0	0	0	0
237-258		0.4	0.4	2.2	0.9	0.4	0	0	0	0	0	0
259-281		0.4	0	1.8	1.8	0	0.4	0	0	0	0	0
282-303		0	0.4	2.2	1.3	0.9	0.4	0	0	0	0	0
304-326		0	0.9	4.4	0.9	0.4	0.4	0	0	0	0	0
327-348		0	0	2.7	0.9	0.4	0.4	0	0	0	0	0

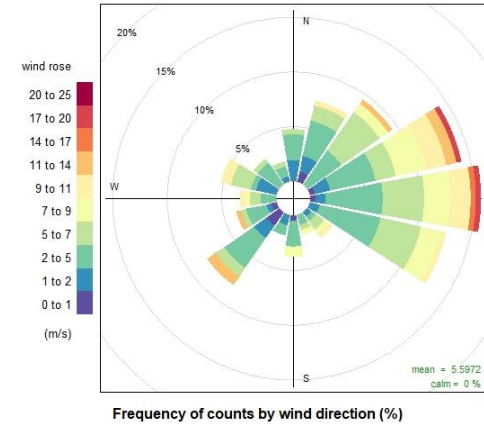


Bengaluru

October

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.9	2.4	0.5	0	0	0	0	0	0	0
12-33		0.9	1.4	3.3	1.4	0	0.5	0	0	0	0	0
34-56		0	0	3.8	4.3	0.9	0	0.5	0	0	0	0
57-78		0.5	1.4	4.3	1.9	2.8	1.9	0.9	0	0.5	0	0
79-101		0.5	0.9	5.2	3.8	2.4	1.9	0	0.5	0.5	0	0
102-123		0	0.9	5.7	3.8	1.9	0.5	0	0	0	0	0
124-146		0	0.5	0.5	0.9	0.5	0.5	0	0	0	0	0
147-168		0	0	0.9	0.5	0	0	0	0	0	0	0
168-191		0.5	0	2.4	0	1.4	0	0	0	0	0	0
192-213		0	0.9	0.9	0	0	0	0	0	0	0	0
214-236		1.4	1.4	3.3	0.9	0	0	0.9	0	0	0	0
237-258		0.5	0.5	1.9	0.5	0	0	0.5	0	0	0	0
259-281		0	0	1.4	0.9	0.5	0.5	0	0	0	0	0
282-303		0	1.9	0.5	1.9	0	0.9	0	0	0	0	0
304-326		0	0	2.4	0.5	0	0	0	0	0	0	0
327-348		0	0.5	0.9	0.5	0	0	0	0	0	0	0

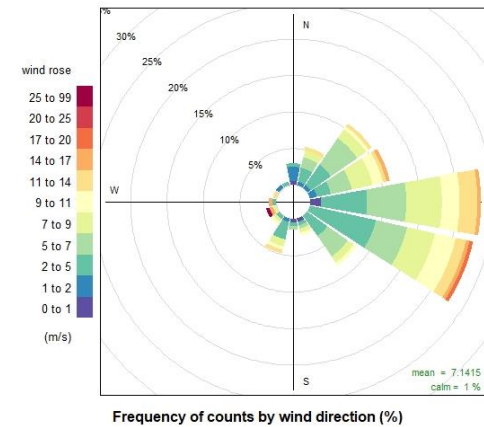


Bengaluru

October

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0.5	2	0.5	0	0	0	0	0	0	0	0
12-33		0	0.5	2	1.5	1	0	0.5	0	0	0	0
34-56		0	0.5	3.4	4.4	1.5	0.5	0.5	0	0	0	0
57-78		0	1	2	2.9	2.9	1.5	0.5	0.5	0	0	0
79-101		1.5	0	6.3	5.4	4.9	2.4	2.4	0.5	0	0	0
102-123		0	0	9.3	4.4	3.9	2.9	1.5	0.5	0.5	0	0
124-146		0	0	3.4	3.4	1	0.5	0	0	0	0	0
147-168		0.5	0	0.5	0.5	0.5	0.5	0	0	0	0	0
168-191		0.5	0	0.5	0.5	0	0	0	0	0	0	0
192-213		0	0.5	2.4	0	1	0.5	0.5	0	0	0	0
214-236		0	0	0.5	0	0.5	0.5	0	0	0	0	0
237-258		0	0	0	0	0.5	0	0	0.5	0	0	0.5
259-281		0	0	0.5	0	0	0	0	0.5	0	0	0
282-303		0	0	0	0	0	0	0	0.5	0	0	0
304-326		0	0.5	0	0	0	0	0	0	0	0	0
327-348		0	0	0.5	0	0	0	0	0	0	0	0

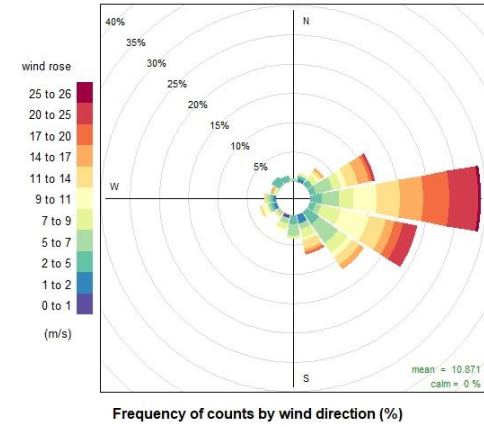


Bengaluru

October

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0.5	0	0	0	0	0	0	0
12-33		0	0.5	0.5	0	0.5	0	0	0	0	0	0
34-56		0	0	1	0	1	0.5	0.5	0.5	0	0	0
57-78		0	0	1	3	1.5	1	2	2	0.5	0.5	0
79-101		0	0	2	3	2.5	4	4	4	4.5	5	0.5
102-123		0	0	1	1	3.5	5	3	1.5	1.5	2.5	0
124-146		0	0	2.5	4	2	1	1.5	1	0	0	0
147-168		0	1.5	0	1	1.5	0.5	1	0.5	0.5	0	0
168-191		0	0	1.5	2	0.5	0	0.5	0	0	0	0
192-213		0.5	0	0	1	1	0.5	0	0	0	0	0
214-236		0	0	0	0.5	0	0	0.5	0	0	0	0
237-258		0	0.5	0.5	0.5	0	1	0.5	0	0	0	0
259-281		0	0.5	0.5	0.5	0	0	0.5	0	0	0	0
282-303		0	0	0	0	0.5	0	0	0.5	0	0	0
304-326		0	0	1.5	0	0	0	0	0	0	0	0
327-348		0	0	1	0	0	0	0	0	0	0	0

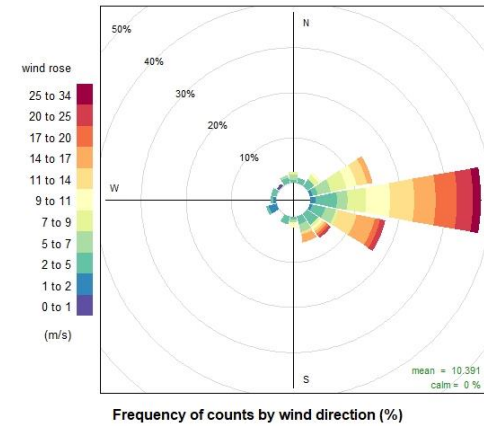


Bengaluru

October

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.6	1.2	0.6	0	0	0	0	0	0
12-33		0	0	1.2	0	0	0	0	0	0	0	0
34-56		0	0	1.8	0	1.2	0.6	0	0	0	0	0
57-78		0	0.6	1.2	3	3.6	2.4	2.4	1.2	0	0	0
79-101		0	1.2	4.7	2.4	4.1	5.3	5.3	4.7	4.7	3.6	1.8
102-123		0	0.6	3	2.4	0.6	0	4.1	4.1	1.2	1.2	0
124-146		0	0	3	0	0.6	0.6	0.6	0.6	0.6	0.6	0
147-168		0	0	1.8	1.8	0	0	0.6	1.8	0	0	0
168-191		0	0	0.6	0.6	0	1.2	0	0	0	0	0
192-213		0	0	1.8	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	1.8	0.6	0	0	0	0	0	0	0	0
259-281		0	0.6	0.6	0	0	0	0	0	0	0	0
282-303		0	0	1.2	0	0	0	0	0	0	0	0
304-326		0.6	0	0	0	0	0	0	0	0	0	0
327-348		0	0	1.2	0.6	0	0	0	0	0	0	0



Bengaluru**November****1000 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

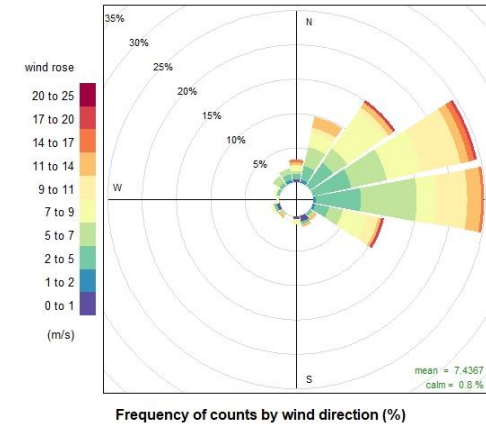
Bengaluru**November****925 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

November 850 hPa level

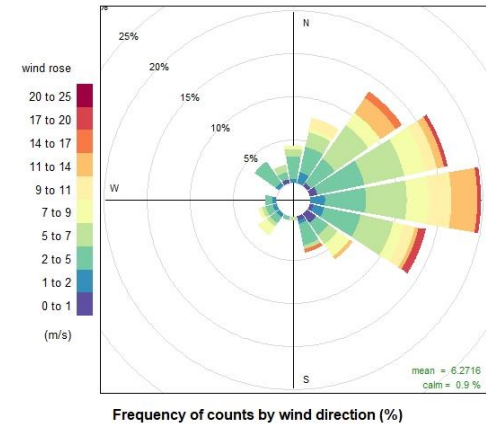
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0.4	0	0.8	0.4	0.8	0	0.4	0.4	0	0	0
12-33		0	0.4	2	2.9	2	0.8	1.6	0	0	0	0
34-56		0	0	4.1	2.4	6.5	0.8	0.8	0	0.4	0	0
57-78		0	0	5.7	5.3	5.3	5.7	1.2	0.8	0.4	0	0
79-101		0	0.4	6.5	8.2	2.9	4.5	2	0.4	0	0	0
102-123		0	0.4	2	2	3.7	1.6	0.4	0	0.4	0	0
124-146		0	0	0.4	0.4	0	0	0.4	0	0	0	0
147-168		0.8	0	0.4	0	0	0	0.4	0	0	0	0
168-191		0.4	0	0	0	0.8	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0.4	0	0	0.4	0	0	0	0
237-258		0.4	0	0.4	0	0.4	0	0	0	0	0	0
259-281		0	0	0	0	0.4	0	0	0	0	0	0
282-303		0	0	0.4	0	0.4	0	0	0	0	0	0
304-326		0	0	0.4	1.2	0	0	0	0	0	0	0
327-348		0	0.4	0.8	0.8	0	0	0	0	0	0	0



Bengaluru

November 700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0.4	2.6	0.9	0.4	0	0	0	0	0	0
12-33		0	1.3	3	1.7	0.4	1.3	0	0	0	0	0
34-56		0.4	0	3.4	4.7	1.7	0	2.2	0.9	0	0	0
57-78		0.9	0	5.6	4.7	2.6	1.3	0.9	0	0.4	0	0
79-101		0	1.7	4.7	4.7	2.6	2.6	3	0	0.4	0	0
102-123		0.4	1.3	4.3	3.9	1.3	1.3	0.4	0	0.9	0	0
124-146		1.3	0	1.7	1.3	1.7	0	0.4	0	0	0	0
147-168		0.4	0.4	2.2	0.4	0	0	0	0.4	0	0	0
168-191		0	0	0.4	0.4	0	0	0	0	0	0	0
192-213		0	0	0.4	0	0	0	0	0	0	0	0
214-236		0	0.4	0.9	0.4	1.3	0	0	0	0	0	0
237-258		0	0.4	0.9	0.4	0.4	0	0	0	0	0	0
259-281		0	0.4	0.9	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0.4	3	0	0	0	0	0	0	0	0
327-348		0.4	0	0.9	0.9	0	0	0	0	0	0	0

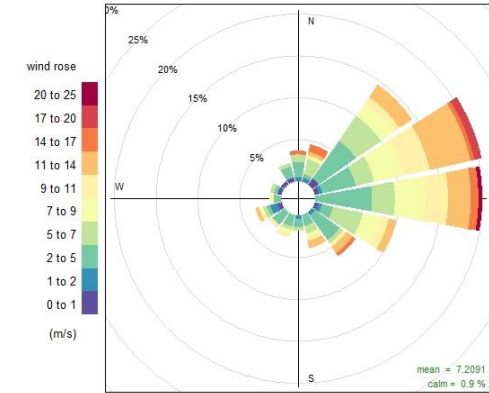


Bengaluru

November

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0.5	1.8	0.9	0	0	0	0.5	0	0	0
12-33		0	0.5	0.5	1.8	0.5	0	0.5	0.9	0	0	0
34-56		0.9	0	5.5	3.6	1.8	0.9	1.8	0	0	0	0
57-78		0.5	0.5	4.1	2.3	3.6	3.2	5	0.5	0.9	0	0
79-101		0	0	6.8	2.7	3.6	2.7	2.7	0.9	0	0.5	0
102-123		0.5	0.5	1.4	3.6	2.3	0.9	0.9	0	0	0	0
124-146		0	0.5	3.6	0.5	0	0.5	0.9	0.5	0	0	0
147-168		0	0	1.4	0.9	0.5	0.5	0.9	0	0	0	0
168-191		0	0.5	0.9	0.5	0	0	0	0	0	0	0
192-213		0	0	1.4	0.5	0.5	0.5	0	0	0	0	0
214-236		0	0	1.8	0	0	0.5	0	0	0	0	0
237-258		0.5	0.9	0.5	0.5	0.5	0	0.5	0	0	0	0
259-281		0	0	0.9	0	0.5	0	0	0	0	0	0
282-303		0.5	0	0.5	0.5	0	0	0	0	0	0	0
304-326		0.5	0	0	0	0	0	0	0	0	0	0
327-348		0.5	0	1.4	0.5	0	0	0	0	0	0	0



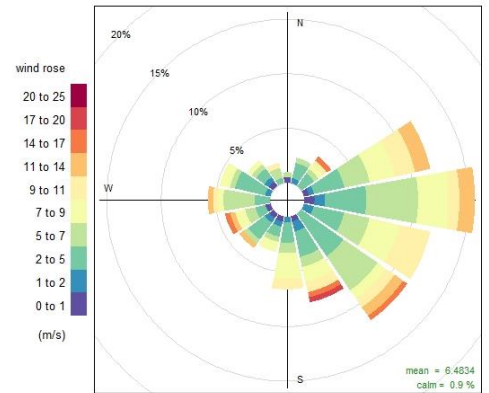
Frequency of counts by wind direction (%)

Bengaluru

November

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0.5	0	0	0.5	0	0	0	0	0	0	0
12-33		0	0.5	1.4	0.5	0	0	0	0	0	0	0
34-56		0	0	1.4	0.5	0.5	0.5	0	0.5	0	0	0
57-78		0.5	0.5	2.8	2.4	2.4	1.9	1.4	0	0	0	0
79-101		0.9	0.9	3.8	4.7	2.8	0.9	1.4	0	0	0	0
102-123		0	0.9	2.8	2.4	2.8	2.8	0	0	0	0	0
124-146		0	0	4.7	3.8	0.9	0.9	0.9	0.5	0	0	0
147-168		0.5	0.5	2.4	0.9	1.4	0.9	0	0.5	0.5	0	0
168-191		0	0.9	1.9	0.9	2.4	0.9	0	0	0	0	0
192-213		0.5	0.5	0.9	0.5	0.9	0	0	0	0	0	0
214-236		0.5	0.5	1.9	0.5	0	0	0.5	0	0	0	0
237-258		0.5	0	0.9	0.9	0.9	0	0.5	0.5	0	0	0
259-281		0	0	1.4	2.8	0.5	0.5	0.5	0	0	0	0
282-303		0	0.5	2.8	0.5	0.9	0	0	0	0	0	0
304-326		0.5	0.5	0.9	0.5	0.5	0	0	0	0	0	0
327-348		0	0	0.5	0.9	0	0.5	0	0	0	0	0



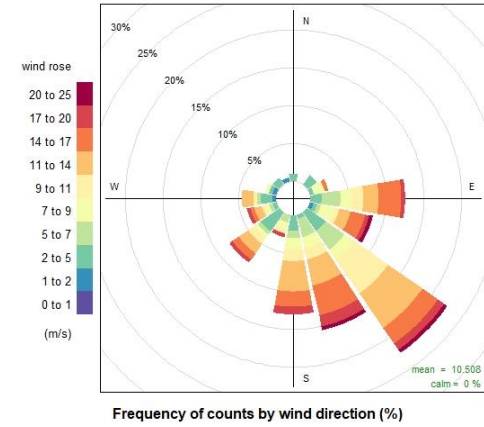
Frequency of counts by wind direction (%)

Bengaluru

November

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	1.5	0	0	0	0	0	0	0	0
57-78		0	0	0.5	0	1.5	0	0	0.5	0	0	0
79-101		0	0	1.5	2.5	1.5	1.5	2	3	0.5	0	0
102-123		0	0.5	0.5	0.5	2	0.5	1.5	2	0.5	0.5	0
124-146		0	0	3	3	1.5	5.5	5.5	2.5	1	0.5	0
147-168		0	0	0.5	2.5	1.5	1.5	3.5	4	1.5	0.5	0
168-191		0	0	2	1	1.5	1.5	4	2	1	0	0
192-213		0	0	0	1	1	0.5	0	0	0.5	0	0
214-236		0	0	3	0.5	0.5	1	1.5	1	0.5	0	0
237-258		0	0	0.5	0.5	0.5	0.5	1	0.5	0.5	0	0
259-281		0	0.5	1.5	0.5	0	0.5	1.5	0	0	0	0
282-303		0	0.5	0.5	0	0.5	0	0	0	0	0	0
304-326		0	0	1	0	0	0	0	0	0	0	0
327-348		0	0.5	0	0	0	0	0	0	0	0	0

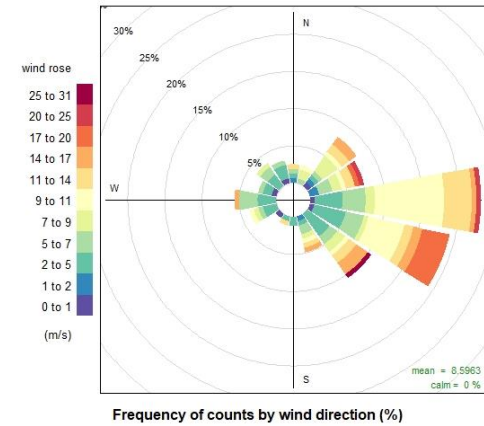


Bengaluru

November

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.6	0.6	0.6	0	0	0.6	0	0	0	0
12-33		0	0	0	0.6	1.2	0.6	0	0	0	0	0
34-56		0.6	0.6	0.6	0.6	2.5	0.6	1.2	1.2	0	0	0
57-78		0	1.2	0	1.9	1.2	0.6	1.2	0	0.6	0.6	0
79-101		0.6	0	3.7	3.1	1.2	9.3	3.7	0.6	0	0.6	0
102-123		0.6	0	4.3	2.5	0.6	5	1.2	1.2	3.7	0	0
124-146		0	0	3.7	1.2	1.2	0.6	1.2	1.9	0	0	0.6
147-168		0	0.6	0.6	1.2	0.6	0.6	0.6	0.6	0	0	0
168-191		0	0	1.2	0	0	0	0	0	0	0	0
192-213		0	0	0.6	0	0	0	0.6	0	0	0	0
214-236		0.6	0	0	0	0	0	0	0	0	0	0
237-258		0	0	1.9	0.6	0.6	0.6	0	0	0	0	0
259-281		0	0	2.5	2.5	0	0	0	0.6	0	0	0
282-303		0.6	0	1.2	0.6	0	0	0	0	0	0	0
304-326		0	0	1.9	1.2	0.6	0	0	0	0	0	0
327-348		0.6	0	1.9	0.6	0	0	0	0	0	0	0



Bengaluru

December

1000 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

December

925 hPa level

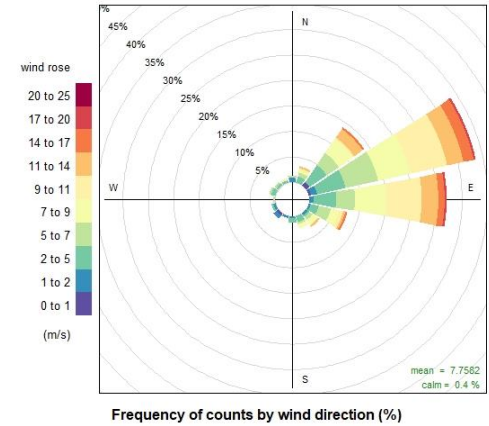
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258												
259-281												
282-303												
304-326												
327-348												

Bengaluru

December

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.8	0	0.4	0	0	0	0	0	0	0
12-33		0	0	1.2	0.8	0.4	0.4	0.4	0	0	0	0
34-56		0.8	0	4.1	2.9	3.3	0.4	2	0.4	0	0	0
57-78		0.4	1.2	5.7	6.6	6.6	7.4	3.3	2	0.4	0	0
79-101		0	0.8	4.5	3.7	6.1	7	3.3	1.2	0.4	0	0
102-123		0	0.4	1.6	2.5	1.6	0.8	0.4	0.4	0	0	0
124-146		0	0.4	0.4	0.8	1.2	0	0.4	0	0	0	0
147-168		0	0	1.2	0.4	0.8	0	0	0	0	0	0
168-191		0	0.4	0.8	0	0	0	0	0	0	0	0
192-213		0	0.4	0	0	0	0	0	0	0	0	0
214-236		0.4	0.8	0	0	0	0	0	0	0	0	0
237-258		0	0.4	0.4	0	0	0	0	0	0	0	0
259-281		0	0	0	0.4	0	0	0	0	0	0	0
282-303		0	0	0.8	0.4	0	0	0	0	0	0	0
304-326		0	0	0.4	0.4	0	0	0	0	0	0	0
327-348		0	0	0.4	0	0	0	0.4	0	0	0	0

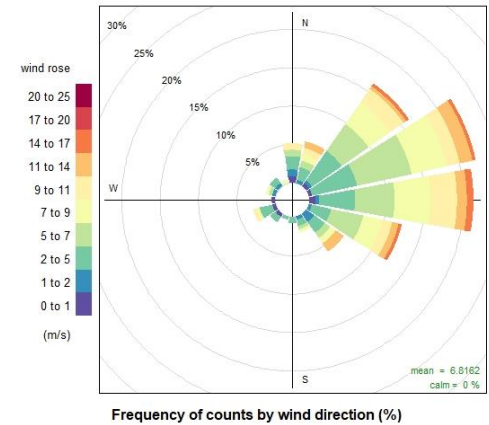


Bengaluru

December

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.9	0.9	1.7	0.9	0	0.9	0	0	0	0	0
12-33		0	0.4	1.7	0.9	0.9	0.9	0.9	0	0	0	0
34-56		0.4	0.4	4.7	4.3	3.4	2.1	0.4	0.4	0	0	0
57-78		0.4	0	6	7.3	4.7	1.7	1.7	0.4	0	0	0
79-101		0.9	0.4	4.7	5.1	4.7	3.4	1.3	0.9	0	0	0
102-123		0	0.4	2.6	4.3	2.6	1.3	0.9	0.4	0	0	0
124-146		0	1.3	1.7	0.9	0.9	0	1.3	0	0	0	0
147-168		0	0.4	0.9	0.4	0.4	0	0	0	0	0	0
168-191		0	0	0.9	0	0	0	0	0	0	0	0
192-213		0	0	0.4	0	0	0	0	0	0	0	0
214-236		0.4	0	0.9	0	0	0	0	0	0	0	0
237-258		0.4	0	1.7	0	0.4	0.4	0	0	0	0	0
259-281		0.4	0	0	0	0	0	0	0	0	0	0
282-303		0	0.4	0	0.4	0.4	0	0	0	0	0	0
304-326		0	0.4	0.9	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0.4	0	0	0	0	0

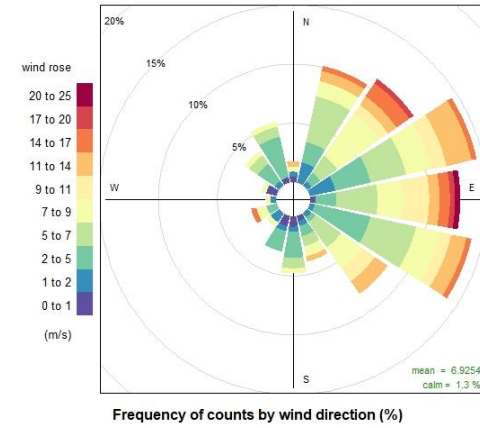


Bengaluru

December

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0.4	0.4	0	0	0.4	0	0.4	0	0	0	0
12-33		0	1.8	1.8	3.9	1.3	0	0.9	0.4	0	0	0
34-56		0	0.4	0.9	1.8	4.4	0.9	0.9	1.3	0.4	0	0
57-78		0	2.2	3.1	3.1	2.2	1.3	2.2	0.4	0	0	0
79-101		0.4	0	1.8	3.5	2.2	2.2	0.9	0.9	0.4	0.4	0
102-123		0	0.4	4.8	3.9	2.2	0.9	1.3	0.4	0	0	0
124-146		0	0.4	0.4	2.6	2.2	1.3	1.3	0	0	0	0
147-168		0.4	0.4	0.9	0.9	0.9	0	0.4	0	0	0	0
168-191		0.9	0.4	2.2	0.9	0.4	0	0	0	0	0	0
192-213		0.9	0.4	1.8	0	0	0	0	0	0	0	0
214-236		0	0.9	0	0	0.4	0	0	0	0	0	0
237-258		0	0	0.9	0	0.9	0	0	0.4	0	0	0
259-281		0	0.4	0	0	0	0.4	0	0	0	0	0
282-303		0.9	0	0	0	0.4	0	0	0	0	0	0
304-326		0	0.4	1.8	0.9	0.4	0	0	0	0	0	0
327-348		0.4	0	3.5	0.9	0.4	0	0	0	0	0	0

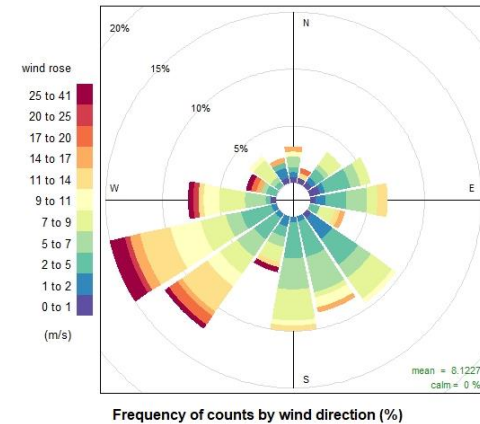


Bengaluru

December

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.5	0.5	0.5	0.9	0	0.5	0	0.5	0	0	0
12-33		0.5	0	0	0	0	0	0.5	0	0.5	0	0
34-56		0.5	0.5	0.9	0.5	1.4	0	0	0	0	0	0
57-78		0.9	0.5	2.3	0.9	0.9	0	0	0	0	0	0
79-101		0.5	0.9	1.8	1.8	0.9	0	0.9	0	0	0	0
102-123		0	0	0.9	0	1.4	0	0.5	0.5	0	0	0
124-146		0.5	2.3	2.7	1.4	2.3	0.5	0	0	0	0	0
147-168		0	0	3.2	2.7	0.5	0.9	0	0.5	0	0	0
168-191		0	0.9	3.2	3.2	2.7	0.5	0.5	0	0	0	0
192-213		0	0.9	0.9	0.9	1.4	0	0.5	0	0	0	0.5
214-236		0	0.5	2.3	1.8	1.8	1.4	2.7	0.5	0.9	0	0.5
237-258		0	0.5	2.7	1.4	2.3	2.7	2.7	0.9	0	0.5	1.4
259-281		0.5	0	0.5	1.8	2.3	1.4	0.5	0	0	0.5	0.5
282-303		0	0	0.9	0.5	0	0	0	0.5	0.5	0	0.5
304-326		0	0	0.5	0.5	1.8	0.5	0	0	0	0	0
327-348		0.5	0.9	0.5	0	0	0	0	0.5	0	0	0

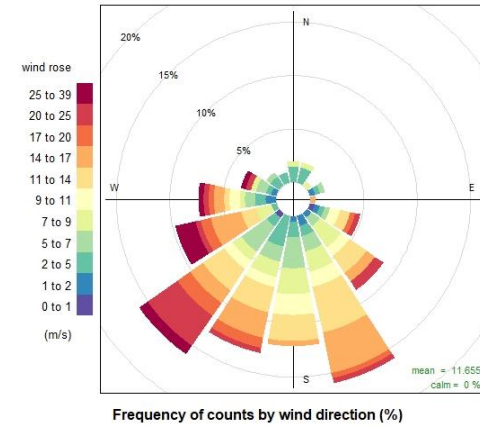


Bengaluru

December

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.5	0	0.5	0	0	0	0	0	0
12-33		0	0	1.5	0	0.5	0	0	0	0	0	0
34-56		0	0	0	0	0.5	0	0	0	0	0	0
57-78		0	0.5	0.5	0.5	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0.5	0	0	0
102-123		0.5	0.5	0.5	0.5	0	1	1	0	0.5	0.5	0
124-146		0	0.5	0	1	2.4	1	1.9	1	0	1	0
147-168		0	1	1	1.5	1.9	1	3.9	3.9	0.5	0.5	0
168-191		0	0.5	1.5	2.9	2.4	2.4	2.9	0.5	0	0	0
192-213		0	0	2.9	1.5	1.5	1	2.4	2.4	1	0.5	0
214-236		0.5	0	1	2.9	1	1	2.4	1.5	1.5	3.4	1
237-258		0	0	0.5	0	1.5	0	1.5	2.9	1	0.5	1.9
259-281		0	1	1	1	0.5	1	0.5	1	0.5	0.5	0.5
282-303		0	0.5	0.5	1	0.5	0	0	0	0	0.5	0.5
304-326		0	0	1	0.5	0	0	0	0	0	0	0
327-348		0	0	1	0	0	0	0	0	0	0	0

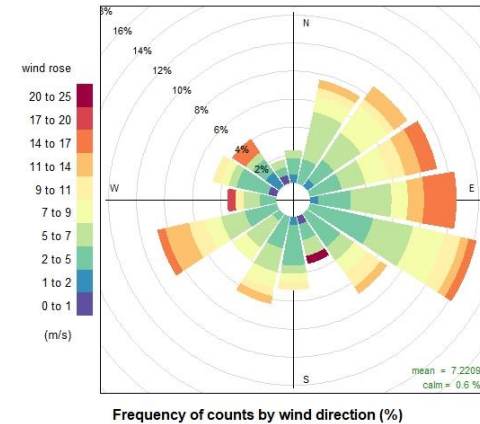


Bengaluru

December

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0.6	1.2	0.6	0	0	0	0	0	0	0
12-33		0	0	1.7	3.5	1.2	0.6	0.6	0	0	0	0
34-56		0	0.6	1.7	2.3	2.3	0.6	1.2	0	0	0	0
57-78		0	0	2.3	1.7	1.7	1.2	1.2	1.2	0	0	0
79-101		0	0.6	2.3	2.9	1.2	0	1.2	2.3	0	0	0
102-123		0	0	4.7	2.9	2.3	1.2	0.6	0.6	0	0	0
124-146		0	0	2.9	1.2	1.2	1.2	0.6	0	0	0	0
147-168		0.6	0	1.2	0.6	0	0	0	0	0	0.6	0
168-191		0	0.6	2.9	1.2	0.6	0.6	0	0	0	0	0
192-213		0	0	2.3	1.7	1.2	0.6	0.6	0	0	0	0
214-236		0	0	0.6	2.3	1.2	0	0	0	0	0	0
237-258		0	0	2.3	1.7	1.2	1.2	1.7	0.6	0	0	0
259-281		0	0	1.2	1.2	0	0.6	0	0	0.6	0	0
282-303		0.6	0	2.3	0.6	0.6	0.6	0	0	0	0	0
304-326		0	1.2	1.2	0.6	0	0	0	1.2	0	0	0
327-348		0.6	0	0.6	0.6	0.6	0	0	0	0	0	0



PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	911.1	915	907	16.6	21.6	10.8	14.7	90	2.4	-2.4	0	2.5
1000	123	156	77									
950	564	595	521									
925	792	824	750									
900	1025	1064	979	16.8	26.6	10.8	13.7	86	4.2	-4.2	-0.3	5.3
850	1513	1572	1460	16.3	24.8	6.6	7.7	83	4.3	-4.3	-0.5	6.2
800	2027	2064	1965	14.3	22.6	6	2.7	75	3.5	-3.4	-0.9	5.5
750	2569	2678	2500	12.1	21	4	-1.9	71	2.8	-2.6	-0.9	5.1
700	3144	3215	3070	9.8	16.6	0.8	-6	67	2.3	-2.1	-0.9	5.2
650	3755	3839	3647	6.8	13.6	-4.9	-9	58	1.5	-1.3	-0.8	5.4
600	4408	4500	4320	3.2	11.9	-8.1	-12.4	32	0.9	-0.5	-0.8	5.8
550	5107	5207	5015	-0.9	8.8	-8.2	-16.4	360	0.9	0	-0.9	6.1
500	5861	5982	5756	-5.4	4.6	-12.3	-20.2	319	0.9	0.6	-0.7	6.5
450	6678	6826	6475	-10.5	-1.7	-18.5	-25.3	297	1.6	1.4	-0.7	7.6
400	7576	7752	7443	-16.3	-7.5	-23.5	-30.6	280	2.7	2.7	-0.5	8.4
350	8566	8780	8421	-23.3	-13.3	-36.2	-37.6	266	4.3	4.3	0.3	9.4
300	9676	9936	9511	-31.6	-21.5	-52.5	-44.7	251	6.2	5.9	2	10.1
250	10938	11247	10717	-41.7	-33.3	-54.6	-55.1	239	7.7	6.6	4	11.3
200	12413	12773	12157	-53.4	-41.4	-64.9	-64.2	233	8.1	6.5	4.9	12.6
175	13260	13648	13032	-59.9	-49.1	-71.1	-63	232	7	5.5	4.3	11.7
150	14205	14627	13957	-66.8	-44	-78.7		237	5.6	4.7	3.1	11.2
125	15284	15754	15010	-73.5	-58.9	-87.1		233	2.6	2.1	1.6	9.7
100	16568	17080	16192	-78.3	-60.5	-88.6		104	0.4	-0.4	0.1	7.7
80	17847	18800	17469	-75.7	-63.8	-87		69	1.7	-1.6	-0.6	6
70	18624	19650	18221	-72.1	-59.6	-87.9		66	1	-0.9	-0.4	5.6
60	19373	20151	19153	-67.9	-56.3	-80.5		27	0.7	-0.3	-0.6	5.4
50	20638	21315	20170	-63.2	-50.6	-75.1		39	1.4	-0.9	-1.1	5.8
40	22011	22554	21529	-59	-48.1	-70.5		73	2.1	-2	-0.6	6.1
30	23829	24377	23302	-54.5	-44.3	-65.5		85	3.3	-3.3	-0.3	7.8
25	25003	25543	24435	-52.2	-42.7	-65.5		83	3.3	-3.3	-0.4	7.5
20	26441	27053	25848	-50	-39.5	-64.3		82	4.9	-4.8	-0.7	8.8
15	28338	28924	27683	-47.6	-37.9	-61.9		85	4.8	-4.8	-0.4	8.2
10	31057	31620	30650	-44	-30.5	-54.9		81	5.4	-5.3	-0.8	6.9
7	33502	34064	32949	-42.5	-36.3	-50.5		34	6.6	-3.7	-5.5	11.6

FREEZING LEVEL

P	Height	H_max	H_min
561	4959	6560	3280

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16523	-79.8

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	910.4	916	905	18.4	24.4	13	15.2	101	1.5	-1.5	0.3	2
1000	108	146	81									
950	553	588	527									
925	782	815	758									
900	1021	1141	927	18.7	26.5	13.6	14.1	105	3.1	-3	0.8	4.8
850	1512	1628	1413	18.1	27	9.8	8.7	92	3.3	-3.3	0.1	6.3
800	2029	2143	1920	15.4	24.6	8.2	4.7	68	3.2	-3	-1.2	5.8
750	2572	2686	2461	12.3	22	4.6	0.8	54	3.2	-2.6	-1.9	5.4
700	3148	3259	3034	9.4	19	3.4	-4.5	53	2.6	-2.1	-1.6	5.6
650	3758	3872	3151	6.6	15.5	-6.5	-9.7	45	1.8	-1.3	-1.3	6
600	4411	4526	4301	3.3	10.4	-3.5	-13.1	17	1.4	-0.4	-1.3	6.3
550	5111	5225	5004	-0.7	6.2	-8.1	-16.8	347	1.3	0.3	-1.3	6.7
500	5865	5985	5757	-5.3	2.1	-12.5	-19.6	315	1.6	1.1	-1.1	7.4
450	6683	6826	6574	-10.4	10.2	-17.7	-24.5	297	2.2	2	-1	8.1
400	7581	7755	7460	-16.2	0.3	-23.5	-30.1	286	3.6	3.5	-1	9.5
350	8572	8782	8438	-23	-1	-30.9	-37.7	277	5.4	5.4	-0.7	10.8
300	9683	10002	9527	-31.4	-2.9	-76.7	-45.1	262	6.9	6.8	1	11.9
250	10947	11437	10762	-41.3	-6.5	-53.9	-54.6	252	7.8	7.4	2.4	11.9
200	12432	17561	12186	-53	-9.8	-64.3	-66.8	247	6.9	6.4	2.7	11.5
175	13272	14181	12992	-59.5	-12.3	-72.3	-64.5	248	6.4	5.9	2.4	11.1
150	14222	15334	13900	-66.3	-13.9	-77.5		245	5.4	4.9	2.3	10.5
125	15304	16688	14948	-73	-15.2	-87.1		235	3.8	3.1	2.2	9.1
100	16583	18320	16202	-78.1	-19.8	-89		234	0.9	0.7	0.5	6.6
80	17865	19924	17460	-75.8	-23.4	-90.1		72	0.9	-0.9	-0.3	5.6
70	18642	20873	18185	-72.5	-24	-85.5		67	0.8	-0.7	-0.3	5.1
60	19481	20063	19043	-68.3	-25.2	-82.7		117	0.4	-0.4	0.2	5
50	20662	23239	20079	-63.3	-27.8	-81.9		135	0.4	-0.3	0.3	5.5
40	22044	24783	21371	-58.8	-28.2	-74.1		121	0.6	-0.5	0.3	6.1
30	23874	26741	23064	-54.3	-29.3	-70.7		72	1.3	-1.2	-0.4	6.7
25	25053	27963	24149	-52.3	-30.1	-68.5		84	0.9	-0.9	-0.1	6.8
20	26490	27103	25501	-49.4	-37.5	-64.3		80	1.1	-1.1	-0.2	7.9
15	28390	28994	27278	-47.1	-38.9	-59.7		30	0.8	-0.4	-0.7	8.1
10	31380	39854	30468	-43	-33.1	-54.3		247	0.8	0.7	0.3	6.2
7	33584	34217	32881	-40.6	-33.1	-49.1		100	2.7	-2.7	0.5	8.6

FREEZING LEVEL

P	Height	H_max	H_min
560	4978	6220	3540

FIRST TROPOPAUSE

P	Height	Temp

SECOND ROPOPAUSE

P	Height	Temp
101	16551	-79.5

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	909.6	914	905	20.8	24.8	15	16	130	0.8	-0.6	0.5	1.6
1000	91	138	55									
950	539	584	502									
925	770	814	732									
900	1013	1053	938	21	25.6	16.2	15.3	148	1.5	-0.8	1.3	3.9
850	1508	1549	1456	20.3	30.4	13.6	9.6	122	2.2	-1.9	1.2	6.2
800	2028	2073	1967	17.4	27.4	11	5.1	73	3.8	-3.6	-1.1	6.6
750	2575	2634	2508	13.6	24	6.6	1.9	55	5.1	-4.2	-2.9	6.9
700	3152	3228	3086	9.5	21.2	-7.7	-1.8	50	5.4	-4.1	-3.5	7
650	3763	3851	3683	6	16.4	-4.7	-6.9	55	4.7	-3.8	-2.7	6.7
600	4414	4523	4284	3	12	-4.7	-12.5	59	3.3	-2.8	-1.7	6.5
550	5113	5245	4985	-0.8	7.6	-7.5	-17.1	51	1.9	-1.5	-1.2	6.4
500	5867	6024	5736	-5.3	3.4	-14.1	-21.2	15	1.1	-0.3	-1.1	6.9
450	6685	6871	6559	-10.5	-1.5	-19.9	-25.8	318	1.5	1	-1.1	7.4
400	7583	7799	7436	-16.2	-7.1	-23.9	-31.7	284	3	2.9	-0.7	8.5
350	8574	8828	8399	-23	-13.5	-31.5	-37.6	270	4.8	4.8	0	9.8
300	9686	9977	9479	-31.2	-22.5	-41.5	-45	258	6.7	6.6	1.4	11.1
250	10950	11284	10697	-41.2	-31.1	-50.9	-55.1	248	7.6	7.1	2.8	11.7
200	12427	12806	12108	-52.8	-42.7	-68.7	-66.5	245	7.7	7	3.2	12.1
175	13277	13681	12911	-59.3	-49.3	-73.3		247	6.9	6.3	2.7	11.4
150	14228	14658	13909	-66.2	-56.5	-80.1		252	5.5	5.2	1.7	10.7
125	15312	15774	14958	-73	-61.3	-86.5		260	2.9	2.9	0.5	8.8
100	16597	17098	16165	-78.2	-66.3	-90.5		207	0.2	0.1	0.2	7.2
80	17873	18405	17391	-75.5	-62	-88.1		90	1.2	-1.2	0	5.2
70	18653	19185	18154	-71.6	-57.1	-86.3		270	0.3	0.3	0	4.7
60	19454	20110	19027	-67.2	-51.9	-83.7		287	1	1	-0.3	5
50	20693	21235	20174	-61.9	-46.5	-74.3		260	1.1	1.1	0.2	5.7
40	22099	22649	21632	-56.9	-43.1	-69.3		328	0.9	0.5	-0.8	5.9
30	23940	24519	23424	-52.2	-37.1	-65.1		45	1.1	-0.8	-0.8	6.6
25	25128	25731	24570	-50.2	-34.5	-63.1		30	1.4	-0.7	-1.2	6.8
20	26586	27234	25963	-47.9	-35.1	-60.9		54	2.2	-1.8	-1.3	7.4
15	28470	29186	27774	-45.6	-36.3	-56.1		72	2.8	-2.7	-0.9	7
10	31172	31929	30386	-41.7	-32.5	-50.3		73	1.7	-1.6	-0.5	5.3
7	33554	34261	32640	-39.8	-29.9	-48.4		103	1.3	-1.3	0.3	7.1

FREEZING LEVEL

P	Height	H_max	H_min
562	4942	6650	3200

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
99	16663	-79.6

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	908.4	913	904	22.6	26.8	18.4	19	230	0.8	0.6	0.5	1.7
1000	77	128	40									
950	526	572	490									
925	758	801	722									
900	1002	1043	956	22.5	26.4	16.8	18.6	223	1.8	1.2	1.3	3.6
850	1499	1540	1451	21.1	28	12.6	14.4	215	1.6	0.9	1.3	5
800	2022	2067	1974	18.6	25.8	8.6	8.7	73	2.4	-2.3	-0.7	5.2
750	2571	2633	2508	15.1	22.6	7	4.2	60	5.6	-4.8	-2.8	6.7
700	3153	3228	3077	10.8	18.2	2.9	0.8	55	7	-5.8	-4	7.9
650	3765	3833	3673	6.5	14.6	-0.4	-3.5	55	7.1	-5.8	-4.1	8.1
600	4418	4499	4307	2.7	10.4	-3.8	-8.1	57	5.4	-4.5	-2.9	7.3
550	5117	5241	4991	-0.8	6.8	-8.5	-13.5	68	3.1	-2.9	-1.2	6.1
500	5872	5995	5726	-4.9	1.8	-11.8	-18.3	77	1.3	-1.3	-0.3	5.9
450	6692	6835	6526	-9.7	7.8	-17.4	-22.9	45	0.3	-0.2	-0.2	6.2
400	7591	7764	7402	-15.5	-7.5	-22.5	-28.5	281	1	1	-0.2	7.1
350	8585	8785	8378	-22.3	-12.9	-29.3	-35.2	266	2.7	2.7	0.2	8.1
300	9701	9942	9466	-30.4	-20.5	-38.5	-42.4	258	4.9	4.8	1	9.2
250	10971	11256	10704	-40.2	-31.1	-47.7	-51.7	250	6.7	6.3	2.3	10.3
200	12454	12900	12143	-51.9	-41.7	-62.5	-64.2	242	7.4	6.5	3.5	10.9
175	13306	13765	12963	-58.5	-48.1	-68.5	-63.7	238	6.5	5.5	3.4	10.4
150	14257	14731	13864	-65.6	-53.5	-78.9		241	5.1	4.5	2.5	9.6
125	15347	15861	15018	-72.6	-60.7	-87.3		248	1.8	1.7	0.7	7.6
100	16636	17245	16243	-78	-63.9	-89.8		78	1.9	-1.9	-0.4	6.8
80	17923	18558	17481	-75.2	-59.5	-87.9		83	3.5	-3.5	-0.4	6.2
70	18704	19368	18248	-71.1	-56.1	-88.9		84	1.8	-1.8	-0.2	5
60	19230	20281	19152	-66.4	-51.9	-81.9		36	0.9	-0.5	-0.7	5.1
50	20738	21445	20237	-61.1	-46.9	-75.9		37	1	-0.6	-0.8	5.9
40	22145	22833	21589	-56.4	-43.7	-74.3		68	2.2	-2	-0.8	6.5
30	23998	24711	23376	-51.7	-39.3	-66.7		74	3.6	-3.5	-1	7.6
25	25192	25927	24537	-49.2	-35.1	-64.3		67	3.9	-3.6	-1.5	8
20	26664	27433	25949	-46.8	-37.1	-59.5		77	4.5	-4.4	-1	8.8
15	28556	29325	27764	-44.6	-32.9	-61.3		83	3.1	-3.1	-0.4	7.6
10	31268	32019	30364	-41	-31.1	-50.1		83	2.6	-2.6	-0.3	7.4
7	33607	34448	32675	-38.7	-32.7	-47.3		78	4.5	-4.4	-0.9	5.6

FREEZING LEVEL

P	Height	H_max	H_min
562	4952	6350	3617

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
99	16763	-79.3

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	907	911	901	22.4	27.8	18.6	19.5	262	2.1	2.1	0.3	2.6
1000	70	86	27									
950	519	535	491									
925	752	769	725									
900	990	1037	939	22.3	34	18.8	19.4	259	3.2	3.1	0.6	4.3
850	1487	1537	1437	21.2	30.2	15.2	15.7	274	4.1	4.1	-0.3	6.8
800	2011	2064	1958	19.1	28.1	11	11.2	330	2	1	-1.7	5.9
750	2562	2616	2502	15.7	23.9	8.4	7.2	38	3.4	-2.1	-2.7	6.1
700	3145	3207	3078	11.8	19.8	5.8	2.9	51	4.8	-3.7	-3	6.9
650	3761	3840	3691	7.4	14.6	1	-1.4	56	5.4	-4.5	-3	7.5
600	4415	4511	4338	3.1	10	-3.9	-5.6	58	5.1	-4.3	-2.7	7.3
550	5115	5225	5033	-0.8	5.8	-7.1	-10.3	66	3.6	-3.3	-1.5	6.4
500	5870	5995	5785	-4.7	1.8	-11.3	-15.2	75	2.4	-2.3	-0.6	5.9
450	6692	6834	6594	-9.1	-1.3	-17.5	-20.1	79	1.5	-1.5	-0.3	5.8
400	7595	7751	7473	-14.5	-6.9	-23.5	-25.3	68	1.1	-1	-0.4	5.5
350	8594	8817	8438	-21.2	-12.1	-30.7	-31.5	56	0.7	-0.6	-0.4	5.3
300	9714	9912	9521	-29.3	-19.3	-40.3	-39.4	72	0.3	-0.3	-0.1	5.3
250	10989	11223	10754	-39.3	-29.3	-56	-49.3	129	0.6	-0.5	0.4	5.8
200	12478	12763	12043	-51.2	-39.5	-63.7	-60.8	128	1.8	-1.4	1.1	7
175	13332	13647	12850	-58	-46.1	-71.5	-63.7	119	3.1	-2.7	1.5	8.1
150	14286	14650	13778	-65.4	-53.9	-76.7	-68.1	108	4.6	-4.4	1.4	9.3
125	15373	15796	14864	-72.7	-62.1	-87		96	6.2	-6.2	0.6	9.7
100	16658	17102	16160	-78	-67.3	-92.5		90	7.8	-7.8	0	9.9
80	17942	18431	17416	-74.6	-59.9	-87.1		86	6.4	-6.4	-0.5	7.8
70	18723	19273	18173	-70.2	-54.9	-85.7		82	4.9	-4.8	-0.7	6.4
60	19260	20252	19063	-65.4	-50.7	-82.9		82	3.7	-3.7	-0.5	5.6
50	20771	21448	20150	-60.4	-44.3	-78.7		78	4.3	-4.2	-0.9	6.3
40	22171	22941	21518	-56.2	-41.2	-72.3		76	5.3	-5.1	-1.3	6.9
30	24020	24787	23326	-51.7	-40.9	-66.1		77	6.9	-6.7	-1.5	8.5
25	25209	25987	24496	-49.2	-36.9	-60.7		79	6.8	-6.7	-1.3	8.6
20	26666	27539	25950	-46.8	-31.1	-60		81	7.7	-7.6	-1.2	9.2
15	28580	29569	27844	-44.3	-29.5	-56.1		88	7	-7	-0.2	7.1
10	31278	31972	30524	-41.8	-32.7	-52.9		85	5.2	-5.2	-0.5	5.4
7	33688	34452	32839	-39.3	-28.9	-50.1		87	3.6	-3.6	-0.2	3.6

FREEZING LEVEL

P	Height	H_max	H_min
561	4973	6340	3860

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
99	16742	-79.2

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	906	912	900	20.8	25.6	17.4	18.8	259	3.7	3.6	0.7	4
1000	61	94	16									
950	508	540	463									
925	739	771	694									
900	979	1029	878	20.7	28.6	17.8	19.1	255	4.8	4.6	1.2	5.4
850	1473	1525	1367	18.7	28.6	12.6	16.2	262	9.5	9.4	1.3	10.9
800	1993	2046	1936	16.9	25.8	7.2	12.7	271	9.6	9.6	-0.1	11.7
750	2541	2600	2479	14.5	23.2	3.9	8.5	278	7.5	7.4	-1	10
700	3123	3196	3052	11.4	17.8	3.4	4.2	280	5.7	5.6	-1	8.8
650	3738	3827	3660	7.8	14	1.4	0.7	277	4.1	4.1	-0.5	7.5
600	4395	4494	4305	3.9	9.8	-4.1	-2.8	268	3.4	3.4	0.1	6.9
550	5097	5206	4998	-0.1	5.8	-7.5	-6.9	264	3	3	0.3	6.2
500	5855	5972	5749	-4.3	3.6	-13.7	-11.6	259	2.6	2.6	0.5	5.5
450	6678	6804	6558	-8.9	-1.9	-23.8	-16.7	257	1.7	1.7	0.4	4.6
400	7583	7806	7442	-14.4	-7.7	-32.6	-22.6	256	0.4	0.4	0.1	4.2
350	8582	8806	8384	-20.9	-13.1	-41	-29.4	79	1.5	-1.5	-0.3	4.2
300	9704	9936	9523	-29	-19.5	-37.7	-37.2	81	3.7	-3.7	-0.6	5.4
250	10982	11266	10764	-39	-25.5	-49.9	-46.7	83	7	-7	-0.8	8.1
200	12473	12803	12196	-51	-41.9	-61.1	-57.9	82	11.7	-11.6	-1.6	12.7
175	13331	13687	13033	-57.8	-48.1	-69.1	-62.4	82	14.3	-14.2	-2	15.4
150	14285	14675	13953	-65.3	-54.9	-77.7	-69.6	83	17.3	-17.2	-2	18.4
125	15375	15812	14994	-72.6	-60.3	-84.9		87	20.3	-20.3	-1.2	21.3
100	16667	17177	16266	-77.4	-60.2	-89.6		89	19.1	-19.1	-0.2	19.8
80	17955	18512	17569	-73.7	-59.2	-88.9		89	13.1	-13.1	-0.3	14
70	18748	19332	18395	-69.6	-56.3	-86.5		86	10	-10	-0.7	11
60	19034	20259	19243	-65.2	-50.1	-77.1		84	8.9	-8.8	-1	9.5
50	20800	21404	20326	-60.5	-43.3	-72.5		82	9	-8.9	-1.2	9.5
40	22212	22835	21746	-56.3	-39.1	-68.5		85	9.4	-9.4	-0.9	9.9
30	24056	24788	23536	-52.3	-39.1	-66.7		85	10.4	-10.4	-0.9	11
25	25244	26042	24693	-49.9	-36.1	-62.5		85	9.4	-9.4	-0.8	10.1
20	26707	27525	26103	-47.4	-33.1	-59.9		85	10.7	-10.7	-1	11.2
15	28616	29368	28024	-44.8	-30.1	-57.7		85	11.5	-11.5	-1	12
10	31278	32170	30604	-42.7	-33.1	-56.3		78	8.5	-8.3	-1.7	9.3
7	33722	34276	33183	-39.5	-33.7	-47.1		95	7.4	-7.4	0.7	7.5

FREEZING LEVEL

P	Height	H_max	H_min
551	5088	6220	3900

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16665	-79.2

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	906.3	911	901	20.3	23.4	17.6	18.7	262	3.6	3.6	0.5	3.9
1000	62	94	39									
950	509	540	486									
925	740	770	717									
900	982	1026	930	20.2	25.2	17.6	18.7	260	4.8	4.7	0.8	5.3
850	1474	1521	1425	17.8	23.4	11.4	16	266	9.4	9.4	0.6	10.7
800	1992	2042	1943	15.8	23	8.8	13	274	10.7	10.7	-0.7	12.3
750	2539	2590	2485	13.6	20.8	6	9.2	278	9.1	9	-1.2	10.6
700	3118	3199	3060	10.7	18	3.4	5.2	280	7.2	7.1	-1.2	8.6
650	3732	3808	3662	7.3	15.8	1	1.3	278	6	5.9	-0.8	7.4
600	4388	4495	4303	3.6	12.8	-3.1	-2.2	274	4.7	4.7	-0.3	6.3
550	5089	5220	4989	-0.3	9	-6.1	-6.1	269	3.9	3.9	0.1	5.6
500	5848	6010	5729	-4.4	3.8	-11.1	-10.6	262	2.9	2.9	0.4	5.1
450	6670	6855	6535	-9.1	-1.3	-15.3	-16.1	258	1.4	1.4	0.3	4.6
400	7574	7795	7419	-14.6	-5.5	-23.3	-22.3	108	0.3	-0.3	0.1	4.2
350	8572	8818	8396	-21.3	-11.9	-28.7	-29	85	2.5	-2.5	-0.2	4.8
300	9693	9990	9493	-29.4	-18.1	-59.5	-37	84	5.5	-5.5	-0.6	6.6
250	10968	11325	10731	-39.4	-25.5	-67.8	-46.6	85	9.4	-9.4	-0.9	10.4
200	12458	12875	12148	-51.3	-35.1	-64.9	-58.1	82	15.2	-15.1	-2.1	16.6
175	13314	13785	12963	-58	-40.5	-75.9	-62.9	80	19.1	-18.8	-3.2	20.4
150	14271	14784	13962	-65.2	-44.7	-80.9	-69.8	80	21.6	-21.3	-3.7	23
125	15354	15918	15020	-72.7	-61.3	-86.5	-73.4	81	22.8	-22.5	-3.7	24.7
100	16642	17218	16262	-76.3	-60.3	-88.7		85	20.3	-20.2	-1.8	22
80	17945	18511	17506	-70.5	-54.7	-82.3		83	14.5	-14.4	-1.7	15.8
70	18743	19323	18281	-66.8	-52.6	-80.1		84	12	-11.9	-1.3	13.1
60	19290	20234	19196	-63.3	-50.5	-77.1		83	10.9	-10.8	-1.4	11.7
50	20810	21484	20299	-59.5	-44.9	-72.9		84	10.8	-10.7	-1.2	11.6
40	22221	22954	21667	-56.1	-42.5	-66.1		84	10	-9.9	-1	10.3
30	24071	24645	23443	-52.3	-36.7	-61.3		84	9.3	-9.3	-0.9	9.7
25	25248	25903	24583	-50	-34.9	-60.1		89	8.3	-8.3	-0.2	8.5
20	26706	27471	25997	-47.7	-32.7	-58.3		86	7.5	-7.5	-0.5	7.6
15	28571	29246	27841	-46.1	-35.9	-56.7		86	7	-7	-0.5	7.1
10	31214	31883	30496	-43.6	-35.3	-53.9		83	10.6	-10.5	-1.2	10.6
7	33721	34377	32795	-40.7	-33.1	-51.1		0	0	0	0	0

FREEZING LEVEL

P	Height	H_max	H_min
554	5046	6610	3840

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
104	16441	-78.2

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	906.9	911	902	20.2	25.4	18	18.9	265	3.4	3.4	0.3	3.6
1000	67	97	41									
950	515	543	489									
925	745	773	720									
900	987	1093	938	20	25.9	14.4	18.6	265	4.2	4.2	0.4	4.7
850	1479	1539	1433	17.6	24.8	10.6	15.9	271	8.3	8.3	-0.2	9.7
800	1997	2085	1947	15.5	22.8	8.6	12.9	280	9.4	9.3	-1.6	11.1
750	2542	2606	2485	13.2	22.2	7	9.2	284	8.1	7.9	-2	9.6
700	3121	3189	3057	10.4	17.8	4.4	5	285	6.6	6.4	-1.7	8
650	3735	3809	3667	7.2	14	0	1	284	5.4	5.2	-1.3	6.6
600	4389	4471	4312	3.5	10	-3.3	-2.8	278	4.2	4.2	-0.6	5.7
550	5091	5184	4998	-0.4	6	-7.3	-6.6	272	3.5	3.5	-0.1	5.2
500	5848	5949	5743	-4.5	2	-11.9	-11.5	266	2.6	2.6	0.2	4.8
450	6670	6786	6543	-9.2	-2.3	-15.9	-16.8	262	1.5	1.5	0.2	4.2
400	7573	7710	7424	-14.7	-5.1	-22.9	-22.8	90	0.3	-0.3	0	4.3
350	8571	8786	8399	-21.4	-11.7	-33.5	-29.6	88	2.3	-2.3	-0.1	4.7
300	9690	9885	9469	-29.6	-20.3	-43.5	-37.7	86	5.1	-5.1	-0.4	6.6
250	10964	11207	10661	-39.7	-27.1	-54.9	-47.3	84	8.8	-8.8	-0.9	10.1
200	12452	12772	12049	-51.5	-36.9	-66.1	-58.3	82	14.3	-14.2	-1.9	15.7
175	13306	13673	13043	-58.3	-44.1	-72.8	-63.4	81	17.8	-17.6	-2.9	19.2
150	14260	14684	13966	-65.5	-50.9	-74.7	-68.6	80	19.7	-19.4	-3.3	21.1
125	15344	15848	15014	-72.7	-58.7	-84.7	-66.5	81	21.1	-20.9	-3.2	23
100	16637	17211	16278	-75.7	-63.1	-87.6		85	17.5	-17.4	-1.5	18.9
80	17945	18510	17585	-69.5	-56.3	-84.2		83	11.3	-11.2	-1.3	12.4
70	18750	19280	18330	-66	-50.5	-77.7		83	10	-9.9	-1.2	10.7
60	19443	20235	19226	-62.8	-50.5	-73.1		82	8.9	-8.8	-1.3	9.5
50	20827	21405	20319	-59.5	-45.1	-69.7		81	8.9	-8.8	-1.4	9.5
40	22238	22854	21659	-56.2	-43.5	-66.7		84	8.8	-8.8	-0.9	9.2
30	24083	24749	23393	-52.2	-37.7	-63.1		85	8.8	-8.8	-0.8	9.1
25	25268	25971	24516	-50.2	-38.3	-60.9		88	7.2	-7.2	-0.3	7.7
20	26739	27483	25912	-47.7	-36.5	-58.2		84	5.9	-5.9	-0.6	6.3
15	28635	29458	27738	-45.6	-34.1	-56.1		85	5.2	-5.2	-0.5	5.2
10	31389	31895	30338	-41.9	-31.5	-53.3		90	0.5	-0.5	0	0.5
7	33906	34393	32638	-38.5	-30.7	-47.1		0	0	0	0	0

FREEZING LEVEL

P	Height	H_max	H_min
555	5032	6280	3690

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
106	16369	-78

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	907.7	913	902	20.3	23	17.2	19	270	2	2	0	2.3
1000	72	109	39									
950	519	556	485									
925	750	786	715									
900	995	1092	913	20.3	26	13.8	18.7	264	2.8	2.8	0.3	3.7
850	1487	1570	1412	18.2	25.2	12.8	15.6	275	4.5	4.5	-0.4	6.8
800	2006	2087	1930	16	22.2	9.5	12.2	283	3.6	3.5	-0.8	6.5
750	2551	2631	2477	13.2	19.8	6.8	8.5	290	2.7	2.5	-0.9	5.6
700	3130	3210	3055	10.3	18	3.6	4.3	291	2.5	2.3	-0.9	5.2
650	3743	3836	3658	7	14.6	-2.9	0.2	288	2.3	2.2	-0.7	4.8
600	4398	4670	4300	3.5	9.4	-3.7	-4	286	1.9	1.8	-0.5	4.7
550	5099	5363	4989	-0.4	5.2	-6.9	-8.1	279	1.2	1.2	-0.2	4.5
500	5856	6112	5736	-4.5	1.2	-11.7	-12.9	288	0.3	0.3	-0.1	4.4
450	6678	6927	6545	-9.3	-2.1	-15.9	-18.1	81	0.6	-0.6	-0.1	4.4
400	7580	7742	7448	-14.9	-8.9	-22.3	-24.1	81	1.9	-1.9	-0.3	4.7
350	8576	8754	8430	-21.7	-14.5	-29.1	-30.7	87	3.3	-3.3	-0.2	5.3
300	9695	9885	9524	-29.9	-20.7	-38.5	-38.7	89	5.4	-5.4	-0.1	6.6
250	10968	11190	10760	-40	-29.1	-50.1	-48.7	88	7.8	-7.8	-0.3	9.1
200	12453	12840	12190	-52.1	-38.1	-60.9	-60.7	85	11	-11	-1	12.8
175	13305	13721	13008	-58.9	-43.5	-68.7	-64	85	13.3	-13.2	-1.2	15
150	14255	14714	13930	-66.3	-49.9	-76.6	-69	85	15.1	-15.1	-1.2	17
125	15339	15763	14987	-73.3	-56.5	-85.1		87	15.3	-15.3	-0.9	17.5
100	16632	17138	16272	-75.3	-60.5	-88.3		87	11.5	-11.5	-0.6	13.3
80	17947	18472	17609	-69.7	-55.9	-83.7		85	7.9	-7.9	-0.7	9.1
70	18749	19288	18400	-66.4	-53.5	-84.1		85	7.5	-7.5	-0.7	8.7
60	19218	20212	19328	-62.8	-50	-81.5		84	7.5	-7.5	-0.8	8.2
50	20831	21381	20428	-59.1	-43.9	-68.3		84	8	-7.9	-0.9	8.5
40	22250	22844	21857	-55.7	-40.3	-64.5		89	8.2	-8.2	-0.1	8.6
30	24107	24760	23650	-51.8	-40.1	-60.1		92	8.4	-8.4	0.3	8.7
25	25284	25981	24793	-49.7	-35.9	-58.7		91	8	-8	0.1	8.3
20	26740	27512	26207	-47.1	-31.1	-56.7		88	9.1	-9.1	-0.3	9.4
15	28615	29272	28001	-45.6	-31.1	-56.9		88	7.4	-7.4	-0.2	7.8
10	31352	32159	30518	-41.8	-28.9	-48.3		85	5.4	-5.4	-0.5	6.3
7	33719	34715	32883	-39.7	-26.9	-49.5		97	4.1	-4.1	0.5	4.2

FREEZING LEVEL

P	Height	H max	H min
556	5026	6210	3760

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
106	16355	-77.5

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	908.7	913	901	20	22.8	14.8	18.6	360	0.1	0	-0.1	1.8
1000	86	125	31									
950	533	566	477									
925	764	795	707									
900	1004	1049	932	20.1	24.3	14.6	18	45	0.6	-0.4	-0.4	3.7
850	1497	1552	1424	18.2	24	10.8	14	36	1.4	-0.8	-1.1	5.7
800	2014	2063	1942	15.6	22.8	8.4	10.4	34	2.2	-1.2	-1.8	5.8
750	2559	2618	2489	12.7	20.6	5.2	6.9	32	2.2	-1.2	-1.9	5.4
700	3136	3216	3066	9.6	18	3.4	3.3	34	1.8	-1	-1.5	5.1
650	3748	3845	3679	6.5	14.8	0.4	-0.5	48	1.2	-0.9	-0.8	4.8
600	4401	4521	4325	3.1	11	-3.1	-4.6	72	0.9	-0.9	-0.3	4.7
550	5102	5240	5017	-0.5	7.6	-7.1	-8.6	84	1	-1	-0.1	4.4
500	5858	6021	5764	-4.7	3.2	-11.1	-13.2	81	1.3	-1.3	-0.2	4.5
450	6680	6863	6562	-9.5	9.4	-16.9	-18.7	83	1.7	-1.7	-0.2	4.4
400	7581	7791	7440	-15.1	-8.3	-23.1	-24.8	81	1.9	-1.9	-0.3	4.7
350	8576	8812	8402	-21.9	-11.9	-28.1	-31.9	88	2.3	-2.3	-0.1	4.9
300	9693	9971	9499	-30.2	-21.3	-37.1	-40.1	92	2.5	-2.5	0.1	5.2
250	10962	11284	10733	-40.5	-29.5	-48.9	-49.8	99	3.2	-3.2	0.5	6.3
200	12440	12814	12165	-52.8	-38.5	-61.9	-61.4	100	4.6	-4.5	0.8	8.4
175	13286	13692	12977	-59.6	-45.1	-70.9	-63.5	98	5.6	-5.5	0.8	9.7
150	14230	14675	13875	-67	-51.9	-78.3	-66.2	97	6.5	-6.5	0.8	11
125	15307	15836	14905	-74.1	-59.1	-85.5	-67.3	95	7.4	-7.4	0.7	10.8
100	16589	17113	16165	-76.6	-63.9	-88.9		92	6.5	-6.5	0.2	8.6
80	17887	18434	17452	-71.1	-56.8	-86.1		84	4.5	-4.5	-0.5	6.5
70	18682	19264	18231	-67.6	-52.5	-83.3		83	4.7	-4.7	-0.6	6.3
60	19523	20236	19161	-63.9	-47.3	-76.5		82	4.9	-4.8	-0.7	6.6
50	20746	21407	20276	-60.2	-42.3	-70.1		81	6.1	-6	-0.9	7.3
40	22153	22864	21674	-56.2	-38.9	-65.7		86	8.2	-8.2	-0.6	9.2
30	23992	24759	23500	-52.4	-35.3	-61.4		86	9.8	-9.8	-0.6	10.7
25	25174	25964	24642	-50.4	-33.7	-59.5		85	9.9	-9.9	-0.8	10.8
20	26626	27466	26051	-48.4	-31.7	-58.5		87	10.7	-10.7	-0.6	11.4
15	28509	29412	27974	-46.4	-34.3	-57.5		85	11.7	-11.6	-1.1	12.6
10	31213	32190	30532	-43.1	-36.2	-54.5		88	9.5	-9.5	-0.4	10.2
7	33280	34099	32646	-41	-34.2	-51.9		90	3.4	-3.4	0	4.4

FREEZING LEVEL

P	Height	H max	H min
557	5004	6380	3810

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
105	16345	-78.3

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	909.9	914	905	18.4	21.8	13.2	16.9	72	1.9	-1.8	-0.6	2.3
1000	97	129	30									
950	542	570	476									
925	771	800	706									
900	1015	1107	942	18.6	23.1	13	16.2	65	3.8	-3.4	-1.6	4.7
850	1505	1589	1435	17.1	22.6	10.2	11.9	63	4.8	-4.3	-2.2	6.8
800	2021	2105	1954	14.8	22.4	7	8.2	62	4	-3.5	-1.9	6.2
750	2564	2648	2494	12.3	18.4	5	4.9	63	3	-2.7	-1.4	5.4
700	3140	3225	3069	9.6	15.6	2.8	1.6	63	2.7	-2.4	-1.2	5.2
650	3752	3833	3673	6.6	13.8	-3.3	-2.5	70	2.3	-2.2	-0.8	5
600	4405	4635	4311	3.3	10.2	-2.5	-6.7	69	2.5	-2.3	-0.9	5.2
550	5106	5328	4997	-0.4	9.2	-6.3	-11	68	2.7	-2.5	-1	5.4
500	5862	6077	5740	-4.7	3	-9.9	-15.6	62	3	-2.6	-1.4	5.7
450	6683	6892	6549	-9.6	-2.1	-15.9	-21	57	3	-2.5	-1.6	5.8
400	7583	7734	7433	-15.4	-6.5	-21.1	-26.6	59	2.3	-2	-1.2	5.8
350	8578	8766	8406	-22.2	-12.9	-28.9	-33.7	59	1.2	-1	-0.6	5.4
300	9693	9924	9493	-30.5	-20.5	-37.7	-41.6	188	0.7	0.1	0.7	5.5
250	10961	11242	10728	-40.9	-31.1	-50.1	-52	186	2.7	0.3	2.7	6.8
200	12440	12785	12163	-52.9	-42.3	-62.1	-64.1	177	4.2	-0.2	4.2	8.5
175	13288	13676	12981	-59.6	-48.7	-71.1	-64.9	175	4.2	-0.4	4.2	8.8
150	14234	14675	13892	-66.7	-54.5	-79.7	-66.1	182	3.3	0.1	3.3	8.4
125	15313	15820	14930	-73.8	-62.7	-88.1		161	1.8	-0.6	1.7	7.1
100	16601	17157	16151	-77.8	-63.6	-89.5		97	2.6	-2.6	0.3	6.4
80	17886	18435	17401	-73.5	-52.9	-84.5		88	3.4	-3.4	-0.1	5.7
70	18674	19230	18178	-69.5	-47.8	-81.7		87	3.3	-3.3	-0.2	5.7
60	19396	20149	19092	-65.5	-47.5	-78.8		82	2.9	-2.9	-0.4	5.8
50	20718	21273	20196	-60.9	-44.5	-73.7		80	4.1	-4	-0.7	6.8
40	22115	22696	21571	-56.9	-39.5	-67.9		80	5.1	-5	-0.9	7.7
30	23944	24624	23367	-53	-38.9	-63.5		87	6.7	-6.7	-0.4	8.9
25	25110	25868	24517	-51.3	-36.5	-61.3		83	6.4	-6.3	-0.8	8.9
20	26556	27406	25939	-49.1	-33.7	-58.9		89	6.9	-6.9	-0.1	9.2
15	28461	29368	27793	-46.4	-30.7	-56.1		84	7.3	-7.3	-0.8	8.7
10	31184	32194	30485	-42.8	-33.3	-54.3		87	6.1	-6.1	-0.3	6.4
7	33635	34686	32996	-40.7	-30.9	-48.1		59	0.6	-0.5	-0.3	0.6

FREEZING LEVEL

P	Height	H_max	H_min
557	5016	6340	3780

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
102	16555	-79.4

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	911.3	915	905	16.8	24.8	11	15.3	81	2.6	-2.6	-0.4	2.8
1000	113	142	59									
950	555	580	501									
925	783	808	729									
900	1027	1070	963	16.9	23.6	12.6	14.4	75	5	-4.8	-1.3	5.6
850	1514	1558	1447	16	24.4	9.2	9.3	78	5.6	-5.5	-1.2	7
800	2028	2084	1957	14.5	22.2	6.2	4.1	79	4.6	-4.5	-0.9	6.3
750	2570	2624	2491	12.6	20.2	1.2	0.1	76	3.7	-3.6	-0.9	5.7
700	3147	3212	3057	10.1	17.6	-3.8	-3.4	78	3.3	-3.2	-0.7	5.5
650	3759	3838	3637	6.9	13.6	-7.7	-6.7	76	2.9	-2.8	-0.7	5.2
600	4412	4505	4256	3.2	12	-10.4	-10.8	72	2.6	-2.5	-0.8	5.3
550	5111	5217	4921	-0.8	9.4	-14.1	-14.4	68	2.4	-2.2	-0.9	5.6
500	5865	5984	5639	-5.3	3	-17.1	-19.7	62	2.1	-1.9	-1	5.9
450	6684	6814	6424	-10.4	0.8	-20.2	-24.3	43	1.6	-1.1	-1.2	6.1
400	7581	7729	7287	-16.2	-7.9	-29.1	-29.5	336	1	0.4	-0.9	6.6
350	8573	8748	8427	-23.2	-14.7	-32.7	-36.1	283	2.3	2.2	-0.5	7.2
300	9683	9887	9519	-31.6	-20.5	-40.5	-44.1	256	4.1	4	1	8.4
250	10945	11190	10748	-41.8	-33.9	-51.3	-53.7	240	6	5.2	3	10.1
200	12415	12696	12157	-53.7	-42.1	-64.3	-64.3	232	7.2	5.7	4.4	11.5
175	13262	13570	12959	-60.3	-50.1	-70.3	-62	235	7.3	6	4.2	11.5
150	14205	14558	13867	-67.1	-56.9	-79.1	-79.1	241	6.6	5.8	3.2	10.6
125	15284	15697	14923	-73.8	-62.1	-87.8		250	3.7	3.5	1.3	8.5
100	16561	17059	16123	-78.7	-66.6	-90.1		180	0.2	0	0.2	6.9
80	17838	18335	17371	-74.9	-58.8	-89.1		92	2.6	-2.6	0.1	5.8
70	18619	19146	18194	-71.3	-55.2	-85.7		97	2.6	-2.6	0.3	5.5
60	19449	20104	19146	-66.9	-47.9	-81.9		102	2.5	-2.4	0.5	5.4
50	20648	21252	20291	-61.9	-42.8	-75.5		95	2.2	-2.2	0.2	5.8
40	22046	22679	21649	-57.2	-38.5	-71.5		98	2.2	-2.2	0.3	7
30	23869	24544	23392	-52.8	-36.9	-66.1		97	3.3	-3.3	0.4	8
25	25035	25738	24509	-50.8	-33.9	-64.5		90	3.9	-3.9	0	8.3
20	26473	27221	25914	-48.9	-38.1	-62.1		91	3.9	-3.9	0.1	8.7
15	28331	29158	27750	-47.2	-38.7	-59.3		93	4.4	-4.4	0.2	8.9
10	31027	31714	30338	-43.4	-36.1	-55.1		119	1.3	-1.1	0.6	5.9
7	33280	33945	32652	-40.9	-34.3	-49.9		225	3.8	2.7	2.7	6.6

FREEZING LEVEL

P	Height	H_max	H_min
560	4969	6870	2637

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
100	16589	-80.0