



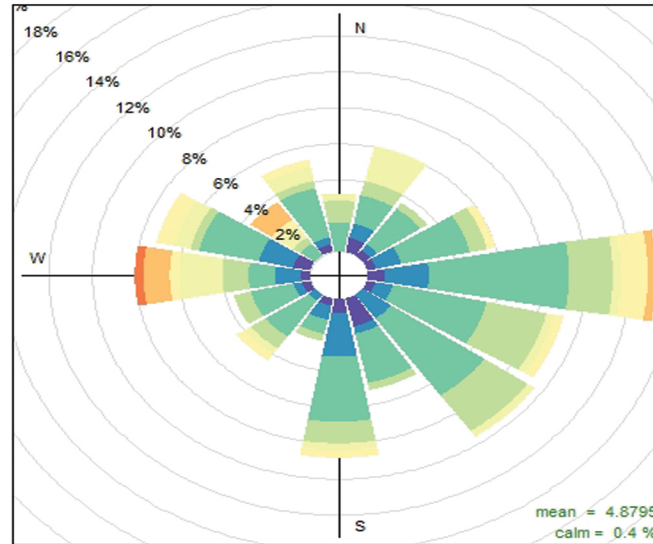
भारत सरकार / GOVERNMENT OF INDIA

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)



मंगलूरु
MANGLORE

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

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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 **Mangalore** (Latitude $12^{\circ} 57'N$, Longitude $74^{\circ} 50'E$).

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 Nahush Kulkarni, Scientist- C, Climate Data and Monitoring Group (CDMG), O/o Climate Research & Services (CR&S), IMD Pune under the guidance of Shri. A.D. Tathe, Scientist E, Group Head Climate Data Management Group (CDMG). The valuable contributions were made by Shri. G.S. Dhekane, Met-B, Shri. S.H. Bhagwat, Shri. R.V. Ghoge, Smt. Gita Harikumar Smt. Vaishali Jadhav, Smt. Hasina Nisar, 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.

(Dr. D.S. Pai)
Head CRS IMD Pune

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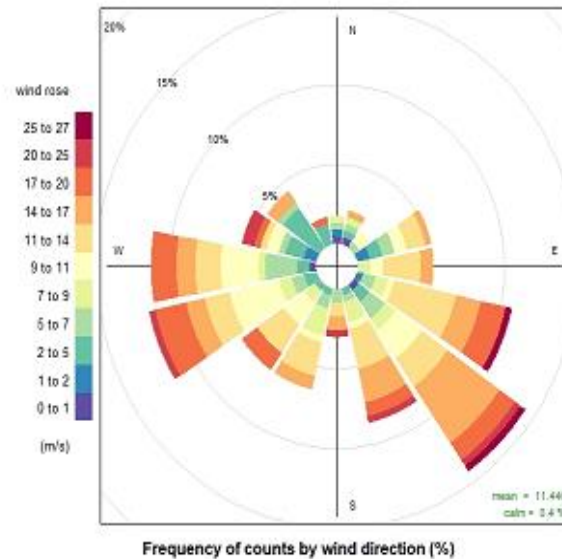
Description of various terms used in the table (Normals of Radiosonde data)

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.

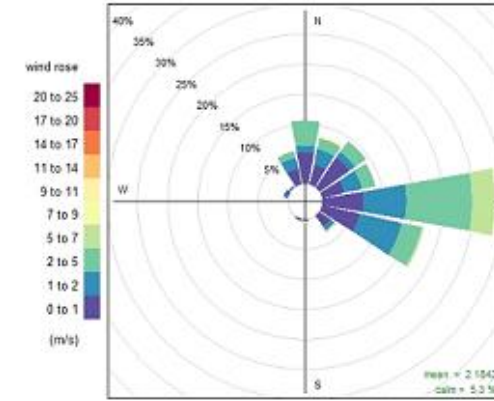
The circular format of the wind rose shows the direction the winds blew from and the length of each "spoke" around the circle shows how often the wind blew from that direction.

Mangalore

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	0.7	1.1	9.2	0	0	0	0	0	0	0	0
12-33		1.5	2.2	8.8	0	0	0	0	0	0	0	0
34-56		1.1	3.7	8.5	0.4	0	0	0	0	0	0	0
57-78		1.5	5.5	14.3	0.4	0	0	0	0	0	0	0
79-101		2.2	5.9	13.6	0	0	0	0	0	0	0	0
102-123		0	0.4	0.4	0	0	0	0	0	0	0	0
124-146		0.7	1.1	0.4	0	0	0	0	0	0	0	0
147-168		0	0.4	0	0	0	0	0	0	0	0	0
168-191		0.7	0.4	0	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	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	0.4	0	0	0	0	0	0	0	0
327-348		0.4	0	1.5	0.4	0	0	0	0	0	0	0



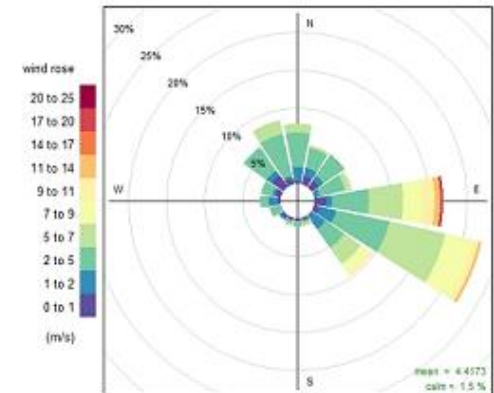
Frequency of counts by wind direction (%)

Mangalore

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	0	0.4	0.4	5.1	1.5	1.5	0.4	0	0	0	0	0
12-33		0	1.1	2.2	1.1	0	0	0	0	0	0	0
34-56		0	0.4	2.2	0.4	0	0	0	0	0	0	0
57-78		0.4	0.7	4	1.1	1.1	0.4	0.4	0	0	0	0
79-101		0.4	0.7	7.4	8.1	5.5	3.3	1.1	0	0	0	0
102-123		0	0.7	4.8	4.4	5.1	1.1	1.8	0	0	0	0
124-146		0	0.4	2.9	1.1	0.7	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	0.4	0	0	0	0	0	0	0	0
214-236		0.7	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0.4	0.4	0	0	0	0	0	0	0
259-281		0	0.4	1.1	1.1	0	0	0	0	0	0	0
282-303		0	0	2.6	0.7	0	0	0	0	0	0	0
304-326		0.4	0.4	1.8	2.9	2.6	0.4	0	0	0	0	0
327-348		0	0.7	3.7	2.9	1.5	0.7	0	0	0	0	0

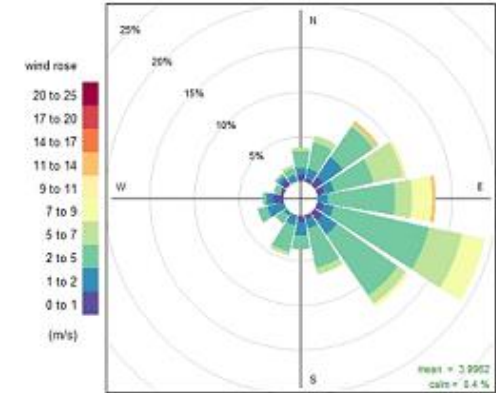


Frequency of counts by wind direction (%)

Mangalore

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	0.7	0	0	0	0	0	0	0	0	0
12-33	0.4	0.7	1.1	0.4	0	0	0	0	0	0	0	0
34-56	0	1.5	4.4	1.5	0.4	0	0	0	0	0	0	0
57-78	0	1.5	4.8	3.7	1.5	0.4	0	0	0	0	0	0
79-101	0.7	1.1	10.7	2.2	1.8	0.7	0	0.4	0	0	0.4	0
102-123	0.7	0.7	8.5	4	1.8	0.4	0	0	0	0	0	0
124-146	0	0.4	10.3	4	1.5	0.4	0	0	0	0	0	0
147-168	0	0.4	2.9	0	0.4	0	0	0	0	0	0	0
168-191	0	1.1	0.4	1.1	0.7	0	0	0	0	0	0	0
192-213	0.4	0.4	1.5	0.4	0	0.4	0	0	0	0	0	0
214-236	0	0	2.6	1.5	0.4	0.7	0	0	0	0	0	0
237-258	0	0	2.2	1.1	1.1	0	0	0	0	0	0	0
259-281	0.4	0.4	1.5	1.1	0.4	0	0	0	0	0	0	0
282-303	0	0	0.7	0.7	0	0.4	0	0	0	0	0	0
304-326	0	0	0.4	0	0	0	0	0	0	0	0	0
327-348	0	0.4	0	0.7	0	0	0	0	0	0	0	0

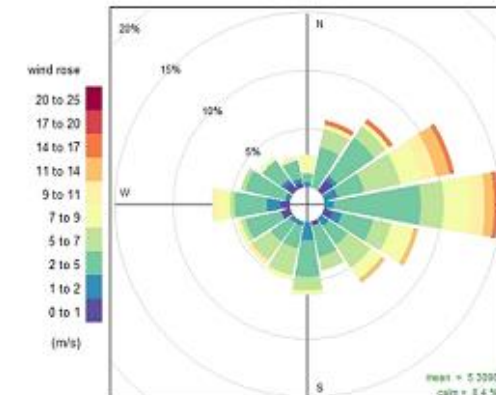


Frequency of counts by wind direction (%)

Mangalore

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	0.4	2.2	1.9	1.1	0	0.4	0	0	0	0	0
12-33	0	0	0.4	0.7	0.7	0.4	0.7	0	0	0	0	0
34-56	0	0	1.9	1.1	1.1	0	0	0	0	0	0	0
57-78	0	0	2.6	1.5	0	0	0.4	0	0	0	0	0
79-101	0	0.4	1.9	0.7	0.7	0.4	0.4	0	0	0	0	0.4
102-123	0.4	0	2.6	1.5	0.7	0.4	0	0	0	0	0	0
124-146	0	0.4	3	1.9	0.4	0	0.7	0	0	0	0	0
147-168	0	0.4	1.5	1.1	0	0	0	0	0	0	0	0
168-191	0.4	0.4	2.2	1.5	0.4	0.4	0	0	0	0	0.4	0
192-213	0.7	0.4	3.3	1.9	1.1	0.7	1.1	0	0	0	0	0
214-236	0.4	0.4	6.3	3	2.2	1.9	0.7	0.4	0	0	0	0
237-258	0.4	0.4	2.6	2.2	2.2	0.7	1.1	0	0	0	0	0
259-281	0.4	0	4.1	3.3	0.7	1.1	0.4	0.4	0	0	0	0
282-303	0.4	0.4	4.1	0.7	0	0	0	0	0	0	0	0
304-326	0	0.7	1.5	1.1	0.7	0	0.4	0	0	0	0	0
327-348	0.7	0.4	1.1	0.7	0	0	0	0	0	0	0	0

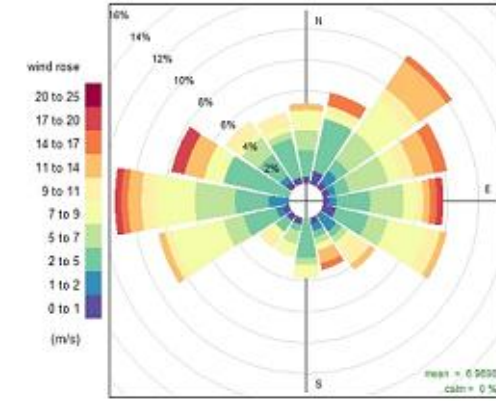


Frequency of counts by wind direction (%)

Mangalore

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	0.8	1.6	1.2	1.2	1.2	1.2	0	0	0.4	0	0
12-33	0	0.4	0.4	0.4	0	0	1.2	0	0	0	0	0
34-56	0.8	0.4	0	2	0	0.4	0.4	0.4	0	0	0	0
57-78	0	0.4	0.8	0.4	0.8	0.4	0.8	0	0	0	0	0
79-101	0	0.4	0	0.4	0.4	0	0	0	0	0	0	0
102-123	0	0	0	0.4	0	0	0	0.4	0	0	0	0
124-146	0	0	0.4	0.4	0.4	0.8	0	0.4	0	0	0	0
147-168	0	0	0	0.4	0	0	0	0	1.2	0	0	0
168-191	0	0	0.4	0.8	0.8	0	0.4	0	0	0	0	0
192-213	0	0.8	1.2	2	1.6	0.8	0.4	0.4	0.4	0	0	0
214-236	0	0	2.3	0.8	1.2	0.4	1.2	1.6	0	0.4	0	0
237-258	0	0.4	3.1	2.3	2	2	2	2.3	0.4	1.2	1.6	0
259-281	0	0	1.6	2	0.8	3.5	2	3.5	2	0.8	0	0
282-303	0	0	1.6	1.2	1.6	2	3.1	0.4	1.2	0.8	0	0
304-326	0	0	2	0.8	2.3	1.2	0.8	0.8	0.8	0	0	0
327-348	0	0	2	1.6	1.6	0.4	0.4	0.8	0	0	0	0

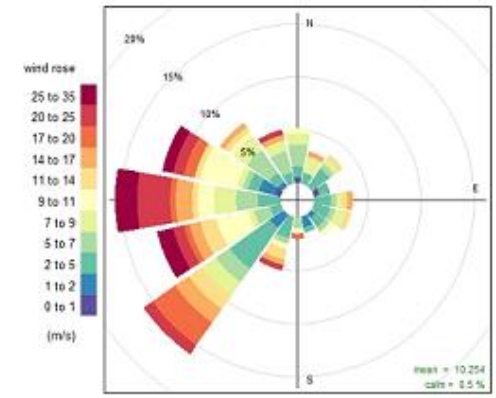


Frequency of counts by wind direction (%)

Mangalore

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	0.4	0	0.9	0.4	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	0.4	0	0	0	0	0	0	0	0	0
57-78	0	0	0.4	0	0	0	0	0	0	0	0	0
79-101	0	0	0.4	0	0	0	0	0	0	0	0	0
102-123	0	0	0	0	0.4	0	0	0	0	0	0	0
124-146	0	0	0.9	0.4	0	0.4	0	0	0	0	0	0
147-168	0	0	0	0	0	0.4	0	0	0	0	0	0
168-191	0	0	0.9	0.9	0	0.4	0.4	0	0	0	0	0
192-213	0	0	1.3	0	0	0	0.9	0	0	0.4	0.4	0
214-236	0	0	0.9	0.4	1.7	1.3	3.5	1.7	1.7	1.3	1.3	4.4
237-258	0.4	0	0	0.4	0.9	1.3	2.6	1.3	3.5	2.6	7.9	0
259-281	0	0	0.4	0.9	2.2	1.7	3.5	2.2	2.2	2.2	2.2	5.7
282-303	0	0	0.9	0.4	3.1	1.7	1.7	2.6	1.3	1.3	1.3	5.2
304-326	0	0	0	0	0.9	0.4	1.7	1.7	0.9	0.9	0.9	1.7
327-348	0	0	0	0.4	0.9	0.9	0.9	0	0	0	0	0

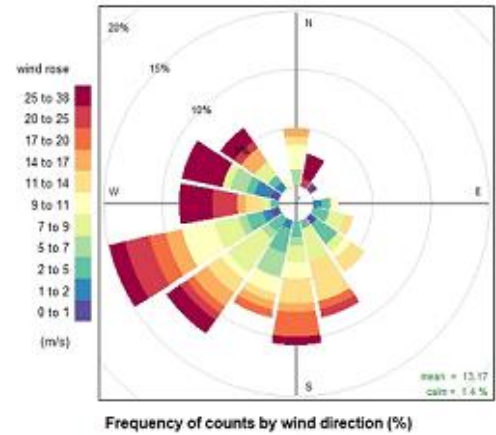


Frequency of counts by wind direction (%)

Mangalore

January 200 hPa level

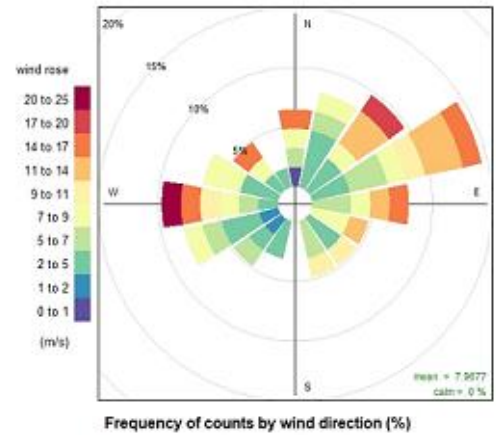
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.5	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	0	0	0	0	0	0	0	0	0	0
79-101	0	0	0	0	0	0	0	0	0	0	0	0
102-123	0	0.5	0.5	0	0	0	0	0	0	0	0	0
124-146	0.5	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0	0.5	0.5	0	0	1	0	0.5	0	0	0
168-191	0	0.5	0.5	0	0	0.5	0.5	0.5	0	1.5	0	0
192-213	0	0	0	0	0.5	3	3	3	0	1.5	0.5	0
214-236	0	0	1	0.5	0.5	0.5	3.5	2	2	1.5	5.5	0
237-258	0	0	1	0.5	1	1.5	3.5	4	3	2	7.5	0
259-281	0	0	1	0.5	1	1.5	2.5	3.5	2	3	6	0
282-303	0	0	0.5	0.5	0.5	0	1	0.5	1	1.5	5.5	0
304-326	0	0	0.5	0	0	0	0	0.5	0.5	0	2	0
327-348	0	0	0.5	0.5	0	0.5	0	0.5	0	0	0	1



Mangalore

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	0.7	0.7	0.7	0	0	0	0	0	0
12-33	0	0	2	0	0.7	0	0.7	0	0	0	0	0
34-56	0	0	0.7	0.7	0.7	0	0.7	0	0	0	0	0
57-78	0	0	1.3	0	0	0	0	0	0	0	0	0
79-101	0	0	2.7	0	0	0.7	0.7	0	0	0	0	0
102-123	0	0	0	1.3	0	0.7	0.7	0.7	0	0	0	0
124-146	0	0	0.7	1.3	0.7	0	1.3	1.3	0	0	0	0
147-168	0	0	1.3	0	0	0	1.3	0	0.7	0	0	0
168-191	0	0	0	0	2	0.7	0.7	0	0	0	0	0
192-213	0.7	0	0	2	0.7	0.7	1.3	0.7	0	0	0	0
214-236	0	0	2	0	0.7	0	2	0	0.7	0	0.7	0
237-258	0	0	1.3	0.7	2.7	1.3	3.4	0	0.7	0.7	1.3	0
259-281	0	0	0.7	0.7	4.7	4.7	1.3	3.4	5.4	2	0	0
282-303	0	0	2.7	1.3	2.7	0	0.7	0	0.7	0.7	1.3	0
304-326	0	0.7	2	1.3	2	0	0	0	0.7	0.7	0	0
327-348	0	0	1.3	2	1.3	0	1.3	0	0	0	0	0.7

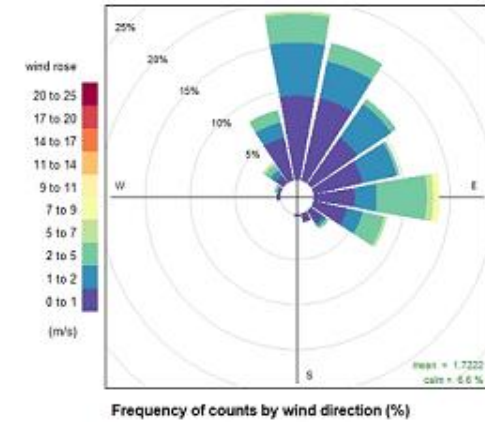


Mangalore

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	26	0.8	1.3	17.7	0	0	0	0	0	0	0	0
12-33		3	4.6	5.5	0	0	0	0	0	0	0	0
34-56		0.8	4.2	3.8	0	0	0	0	0	0	0	0
57-78		3.8	2.5	5.1	0	0	0	0	0	0	0	0
79-101		2.5	1.3	4.6	0	0	0	0	0	0	0	0
102-123		1.3	1.7	0.8	0	0	0	0	0	0	0	0
124-146		0.4	0	0.4	0	0	0	0	0	0	0	0
147-168		0	0.4	0.4	0	0	0	0	0	0	0	0
168-191		0.8	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		0.4	0.4	0	0	0	0	0	0	0	0	0
237-258		0	0.4	0	0	0	0	0	0	0	0	0
259-281		0	0	0.4	0	0	0	0	0	0	0	0
282-303		0	0.4	0.4	0	0.4	0	0	0	0	0	0
304-326		0.4	0.4	0	0	0	0	0	0	0	0	0
327-348		0	0.4	1.7	0	0	0	0	0	0	0	0

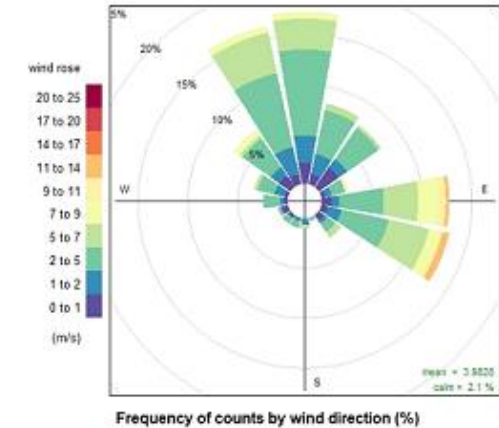


Mangalore

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	0	0	0.4	3	4.3	4.3	1.3	0.9	0	0	0	0
12-33		0	0.4	0.9	2.6	0.4	0	0	0	0	0	0
34-56		0.4	0	4.7	0.4	0	0	0	0	0	0	0
57-78		0	0	3	1.7	0.4	0	0	0	0	0	0
79-101		0	0.9	4.3	2.1	0.9	1.3	0	0.4	0	0	0
102-123		0	0.4	3.4	1.3	1.3	0.4	0.9	0	0	0	0
124-146		0	0	1.3	0.4	0.4	0	0	0	0	0	0
147-168		0	0	0.9	0	0	0	0.4	0	0	0	0
168-191		0.4	0	0	0	0.4	0	0	0	0	0	0
192-213		0	0	0	0.4	0	0	0	0	0	0	0
214-236		0	0	0.9	0	0	0	0	0	0	0	0
237-258		0	0	0.4	1.3	0	0	0	0	0	0	0
259-281		0	0.9	1.3	0.4	0.4	0	0	0	0	0	0
282-303		0.4	0	4.3	2.6	2.6	0	0	0	0	0	0
304-326		0.4	0.4	3	5.6	2.1	0.4	0.9	0	0	0	0
327-348		0	0.4	5.6	5.1	6.4	2.6	0.4	0	0	0	0

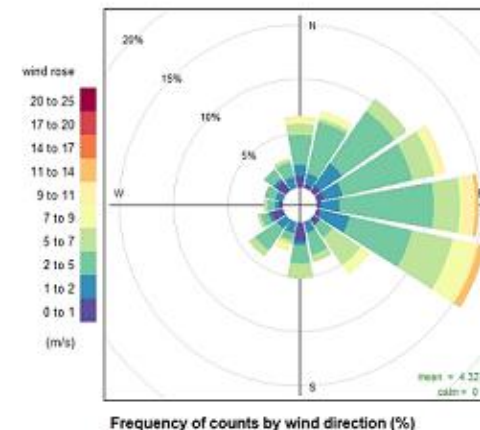


Mangalore

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	0.9	3.4	0.9	0.9	0.9	0.9	0	0	0	0	0
12-33	0.4	0.4	1.7	1.3	0.9	0	0	0	0	0	0	0
34-56	0.4	0	3.8	1.3	0.4	0	0	0	0	0	0	0
57-78	0.4	0	4.3	1.3	1.3	0.4	0	0	0	0	0	0
79-101	0.4	0.4	5.1	4.3	3.4	0.9	0	0	0	0	0	0
102-123	0	0	3	3.8	0	0.9	0.4	0	0	0	0	0
124-146	0	0.9	3	0.4	2.6	0.4	0.4	0	0	0	0	0
147-168	0	0	2.6	0	0	0	0	0	0	0	0	0
168-191	0.4	0.9	1.7	1.3	0.4	0	0.4	0	0	0	0	0
192-213	0	0	3.4	2.1	0.9	0.4	0	0.4	0	0	0	0
214-236	0.4	0.4	3.8	0.9	0.9	1.7	0	0	0	0	0	0
237-258	0	0.4	0.4	2.6	0	0	0	0	0	0	0	0
259-281	0	0	0	1.7	0.9	0.4	0.4	0	0	0	0	0
282-303	0	0.4	3.4	0	1.7	0	0	0	0	0	0	0
304-326	0	0	2.1	1.3	0.4	0.9	0.4	0	0	0	0	0
327-348	0	0.4	2.6	0.4	0.4	0	0	0	0	0	0	0

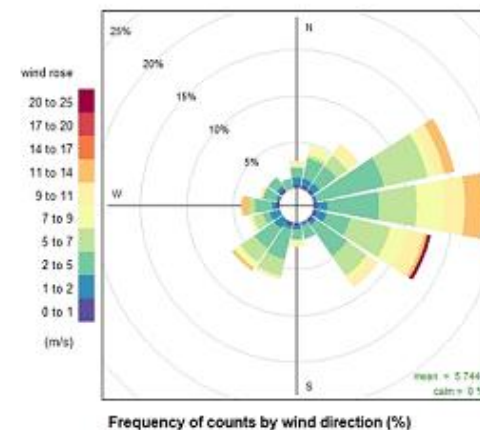


Mangalore

February

700 hPa level

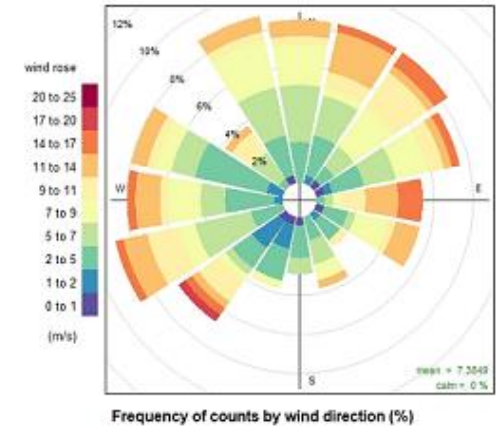
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1.3	0	1.7	0.9	0	0	0	0	0	0	0	0
12-33	0.4	1.3	3.5	0.4	0	0	0	0	0	0	0	0
34-56	0	0	3.9	1.7	0.9	0.4	0	0	0	0	0	0
57-78	0	0	3.5	2.6	0.9	0.4	0	0	0	0	0	0
79-101	0.4	0.4	2.6	3.5	1.3	0	0	0	0	0	0	0
102-123	0	0.9	4.3	0.9	0.9	0	0	0	0	0	0	0
124-146	0	0	2.6	0.9	0	0	0	0	0	0	0	0
147-168	0	0.4	4.3	1.3	1.3	0.4	0.4	0	0	0	0	0
168-191	0	0.4	5.6	2.6	2.6	0.9	0.4	0.9	0	0	0	0
192-213	0.4	1.3	3.5	1.3	0.9	0.9	0	0.4	0	0	0	0
214-236	0	0	3.5	1.3	1.7	1.3	0.4	0.4	0	0	0	0
237-258	0	0	3	0.9	0.9	0.9	0.9	0	0	0	0	0
259-281	0	0.4	3	1.7	0.4	0	0	0	0	0	0	0
282-303	0	0	1.3	0.9	0	0	0	0	0	0	0	0
304-326	0	1.3	0	0.4	0.4	0	0	0	0	0	0	0
327-348	0	0	1.7	0.4	0	0	0	0	0	0	0	0



Mangalore

February 500 hPa level

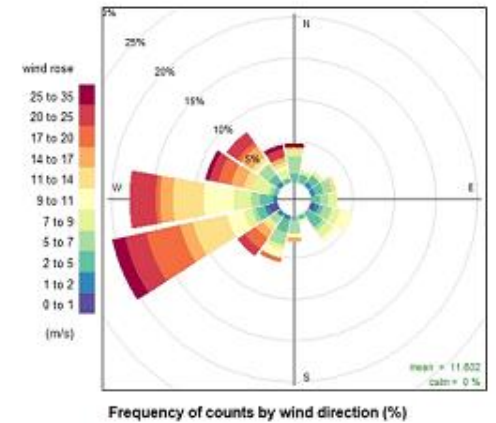
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	3.6	0.9	0.9	0.9	0.9	0.9	0.5	0	0.5	0
12-33	0	0	0	1.8	2.3	0.9	0	0	0	0	0	0
34-56	0	0	0.9	0.9	0	0.5	0	0	0	0	0	0
57-78	0	0	0	0.5	0	0	0	0	0.5	0	0	0
79-101	0	0	0.9	1.4	0.5	0.9	0.5	0	0	0	0	0
102-123	0	0	0.5	0.5	0	0	0	0	0	0	0	0
124-146	0	0.5	0	0.5	0	0.5	0	0	0	0	0	0
147-168	0	0	0.9	0.5	0	0.5	0	0	0	0	0	0
168-191	0	0	0.5	0.9	0.5	0	0.5	0	0	0	0	0
192-213	0	0	0.5	0.9	0.5	0	0	0	0	0	0	0
214-236	0	0	0.9	0.9	0.5	1.8	1.8	0	0.5	0	0	0
237-258	0	0	0.9	1.4	1.4	0.9	1.8	3.2	2.7	0.5	0	0
259-281	0	0	1.4	1.8	1.8	2.7	6.3	0.9	1.8	1.4	0	0
282-303	0	0.5	0.5	0.9	1.8	3.2	2.3	1.4	0.5	0	0	0
304-326	0	0	2.3	0.9	3.6	3.2	2.7	0.9	0.9	0	0	0
327-348	0	0.5	0.5	1.4	1.8	2.3	2.7	0	0	0	0	0



Mangalore

February 300 hPa level

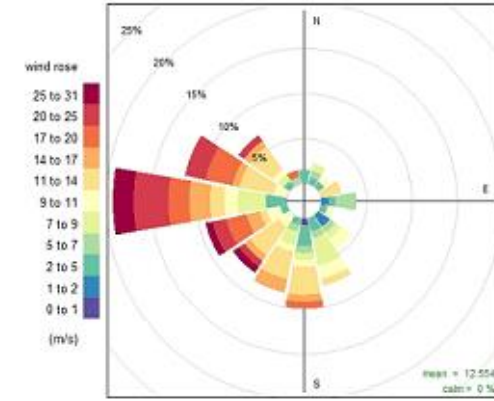
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1	0.5	0	0	0.5	0	0	0	0	0.5
12-33	0	0	0	0	0	0	1	0	0	0	0	0
34-56	0	0	1	0	0	0	0.5	0	0	0	0	0
57-78	0	0	0.5	0.5	0	0.5	0	0	0	0	0	0
79-101	0	0.5	0.5	0	0	0.5	0	0	0	0	0	0
102-123	0	0	1.5	0.5	0	0	0	0	0	0	0	0
124-146	0	0	1.5	1	0	0	0	0	0	0	0	0
147-168	0	0	0.5	0.5	0.5	0	0	0	0	0	0	0
168-191	0	0.5	0.5	0	0	0	0	0	0	0	0	0
192-213	0	0	0.5	1.5	0	1.5	0	0	0.5	0.5	1	0
214-236	0	0	0.5	1.5	0	0.5	0	1	0.5	0.5	3.4	0
237-258	0	0	1	0.5	0.5	0.5	1.5	1.5	2	3.4	6.3	0
259-281	0	0	1.5	0.5	1.5	1	2.4	6.3	3.4	4.9	5.9	0
282-303	0	0	1	0.5	0.5	1	2	0.5	1.5	3.9	2.4	0
304-326	0	0	0	1	0	0.5	1.5	2	4.4	1	1.5	0
327-348	0	0	1.5	0	0.5	0	0	0	0.5	0	0.5	0



Mangalore

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	0.6	0.6	0	0	0	0	0	0	0
12-33		0	0.6	0	0	0	0	0	0	0.6	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0.6	0	0	0	0	0	0	0	0
79-101		0	0	1.2	0.6	0	0	0	0	0	0	0
102-123		0	0	0.6	0.6	0	0	0	0	0	0	0
124-146		0	0	0.6	0	1.2	0.6	0	0.6	0	0	0
147-168		0	0	0	0.6	0	0	0.6	0	0	0	0
168-191		0	1.2	0	0	1.2	0.6	0.6	0	0	0	0
192-213		0	0.6	0	1.2	0	0.6	1.2	0.6	0	0	0
214-236		0	0	0.6	0	0.6	1.8	4.1	1.2	1.2	2.9	2.9
237-258		0	0	0	0	0	1.2	3.5	2.3	0.6	4.1	5.3
259-281		0	0.6	0	0	2.3	0.6	2.9	2.9	4.1	4.7	9.9
282-303		0	0	0.6	0.6	0.6	1.8	2.3	1.2	0.6	2.9	2.3
304-326		0	0	0.6	0.6	0	0	1.2	1.2	0.6	2.3	0.6
327-348		0	0	0	0	0	0	1.2	0	0	0.6	0.6

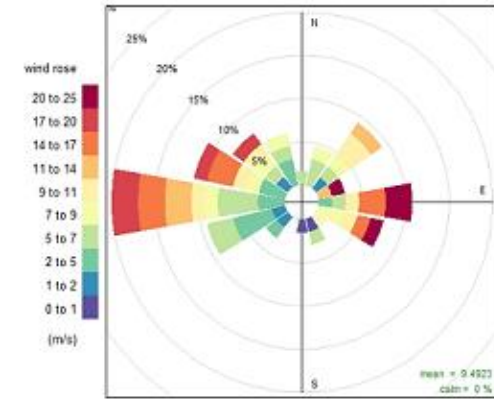


Frequency of counts by wind direction (%)

Mangalore

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	0	0	0.8	0	0	0	0	0	0	0
12-33		0	0	0	0	1.7	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	0.8	0.8	0.8	0.8	0	0
79-101		0	0	0.8	0.8	1.7	0	0.8	1.7	1.7	0	0
102-123		0	0	0.8	0	0	0.8	0.8	0	0	0	0
124-146		0	0.8	0.8	0.8	0.8	0	0.8	0	0	0	0
147-168		0	0	0	0	0	0	0.8	0	0	0	0
168-191		0	0	0	0	0.8	0	0	0.8	0	0	0
192-213		0	0.8	0.8	1.7	0	0	0.8	0	0	0	0
214-236		0	0	0.8	2.5	0.8	0.8	0.8	0.8	0.8	1.7	0
237-258		0	0	0.8	0.8	1.7	5.9	0	0.8	0	0.8	5.1
259-281		0	0	0	4.2	4.2	4.2	5.1	2.5	2.5	2.5	4.2
282-303		0	0.8	0	0.8	1.7	1.7	1.7	3.4	1.7	1.7	0
304-326		0	0	0.8	1.7	0	0	0.8	0	0	0	0
327-348		0	0	0.8	0	0	0	0	0	0	0	0

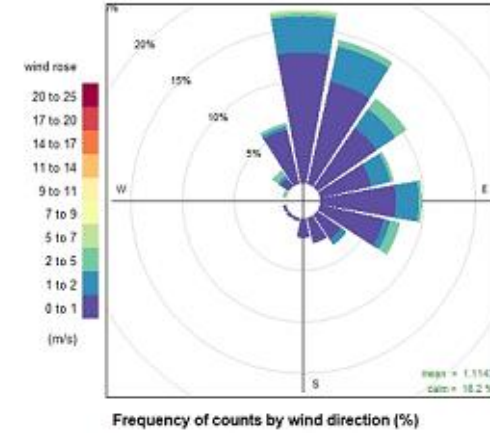


Frequency of counts by wind direction (%)

Mangalore

March 1000 hPa level

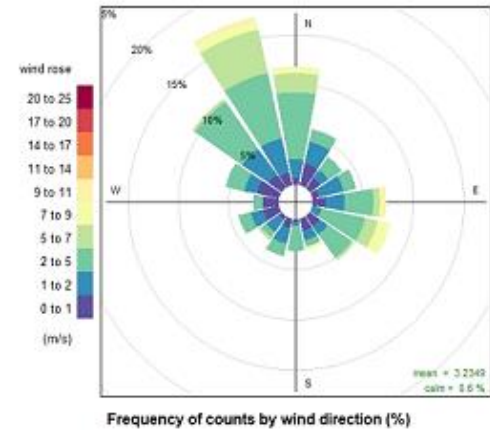
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	20	1.1	2.8	14.5	0.4	0	0	0	0	0	0	0
12-33		4.9	4.6	2.8	0	0	0	0	0	0	0	0
34-56		5.7	3.9	1.1	0	0	0	0	0	0	0	0
57-78		6	2.1	2.1	0	0	0	0	0	0	0	0
79-101		4.9	3.2	1.4	0	0	0	0	0	0	0	0
102-123		3.2	1.4	0.7	0.4	0	0	0	0	0	0	0
124-146		1.4	1.4	1.4	0	0	0	0	0	0	0	0
147-168		0.4	1.4	0.7	0	0	0	0	0	0	0	0
168-191		0	0	0.4	0	0	0	0	0	0	0	0
192-213		0.4	0.4	0.4	0	0	0	0	0	0	0	0
214-236		0.4	0	0	0	0	0	0	0	0	0	0
237-258		0.4	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		0.4	1.1	2.1	0	0	0	0	0	0	0	0



Mangalore

March 925 hPa level

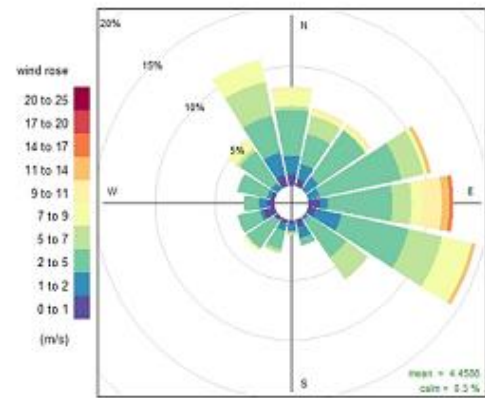
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.7	0.3	2.8	3.1	4.2	1.4	0.3	0	0	0	0
12-33		0.3	0	3.5	1.7	0.3	0	0	0	0	0	0
34-56		0.7	0	2.4	1.4	0.7	0	0	0	0	0	0
57-78		0	0.3	1.7	0.7	0.3	0	0	0	0	0	0
79-101		0	0.3	3.5	0.3	0.3	0	0	0	0	0	0
102-123		0	0.3	1.7	0.7	0.7	0	0	0	0	0	0
124-146		0.3	0	0	0.3	0.7	0	0	0	0	0	0
147-168		0.3	0	0.7	0	0	0.3	0	0	0	0	0
168-191		0	0.7	0	0	0	0	0	0	0	0	0
192-213		0.7	0.3	1.4	0	0	0	0	0	0	0	0
214-236		0.3	0.3	0.3	0.7	0	0	0	0	0	0	0
237-258		0	0	1	0	0	0	0	0	0	0	0
259-281		0.7	1	2.4	0.7	1	0	0	0	0	0	0
282-303		0.3	0.3	3.1	1.4	1	0	0	0	0	0	0
304-326		0.3	0.3	5.6	4.5	2.4	0.3	0.3	0	0	0	0
327-348		0.3	1	8.4	6.6	5.9	5.2	2.1	0	0	0	0



Mangalore

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	0.7	2.4	3.1	1.7	0.7	0	0	0	0	0	0
12-33	0.7	0.3	3.1	3.5	1	0.3	0	0	0	0	0	0
34-56	0.3	0.3	2.8	3.5	2.4	0	0	0	0	0	0	0
57-78	0	0.3	2.4	0.3	0.3	0	0	0	0	0	0	0
79-101	0.3	0.7	3.5	0.7	1.7	0.3	0	0	0	0	0	0
102-123	0.7	0	2.1	2.4	1.4	0	0.3	0	0	0	0	0
124-146	0	0	2.8	1	0.3	1	0	0	0	0	0	0
147-168	0	0	0.3	0.3	0.3	0	0	0	0	0	0	0
168-191	0	0	1	0.3	0	0	0	0	0	0	0	0
192-213	0	0.3	1.7	1.4	0.3	0	0	0	0	0	0	0
214-236	0	0.3	1	0.3	0.3	0.3	0	0	0	0	0	0
237-258	0	0	2.1	2.1	0.7	0.7	0	0	0	0	0	0
259-281	0	0	4.2	0.7	1.4	0.3	0.3	0	0	0	0	0
282-303	0.7	0	3.5	3.5	2.8	0.3	0	0	0	0	0	0
304-326	0	0	1.7	0.7	1.7	1	1	0	0	0	0	0
327-348	0.3	0	3.1	1.7	3.1	1.4	0.7	0.7	0	0	0	0

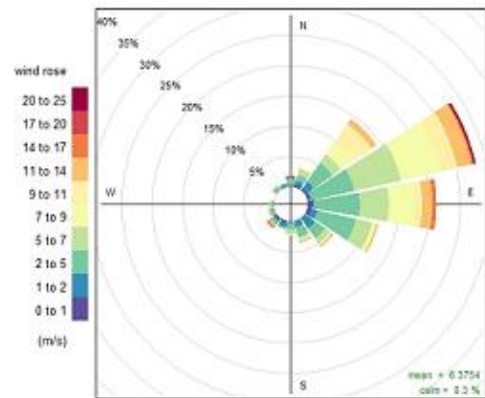


Frequency of counts by wind direction (%)

Mangalore

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	0.3	0	1	0	0	0	0	0	0	0	0	0
12-33	0	0	1.4	0	0	0.3	0	0.3	0	0	0	0
34-56	0	0	1.4	2.1	2.1	0.3	0.3	0	0	0	0	0
57-78	0.7	0.7	4.9	3.8	3.8	1.7	0	0	0	0	0	0
79-101	0.3	0.7	5.9	4.2	1.7	1	1	0	0	0	0	0
102-123	0.3	0.3	7	5.6	0.7	0.3	0.3	0	0	0	0	0
124-146	0	0	5.6	3.1	2.1	0.3	0	0	0	0	0	0
147-168	0	0.7	3.8	2.4	0.3	0.7	0	0	0	0	0	0
168-191	0	0.7	1.7	4.2	1.7	1	0.3	0	0	0	0	0
192-213	0	0	1.7	2.1	1.7	0	0	0	0	0	0	0
214-236	0	0	1	1	0	0	0.3	0	0	0	0	0
237-258	0.3	0.3	1	0	0	0	0	0	0	0	0	0
259-281	0.3	0	0.7	0	0	0	0	0	0	0	0	0
282-303	0	0	0.7	0.7	0.3	0	0	0	0	0	0	0
304-326	0.3	0	0.3	0	0	0	0	0	0	0	0	0
327-348	0	0.3	0.7	0.3	0	0	0	0	0	0	0	0

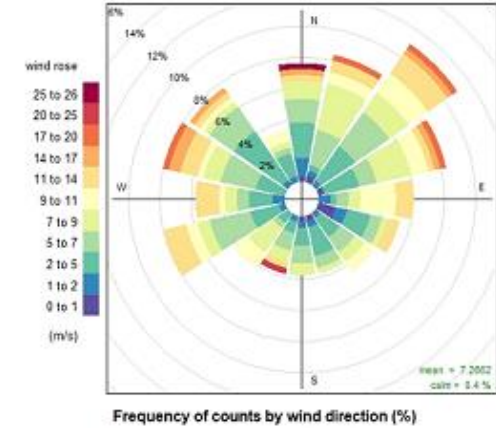


Frequency of counts by wind direction (%)

Mangalore

March 500 hPa level

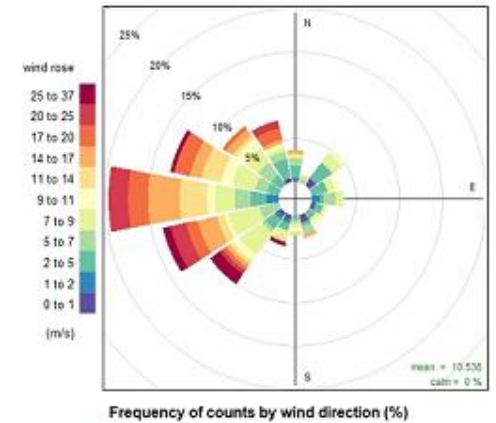
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.9	1.1	0.8	1.9	1.5	0	0	0	0	0
12-33	0	0	0.8	1.5	0.8	1.5	0.8	0.4	0	0	0	0
34-56	0.8	0.8	0.4	0.4	0.4	0	0	0	1.1	0.4	0	0
57-78	0	0	1.1	1.1	0.8	0.8	0.8	0	0	0	0	0
79-101	0	0	1.1	1.1	0.4	0.4	0.4	0	0	0	0	0
102-123	0	0.4	0.8	0.4	0.4	0	0	0	0	0	0	0
124-146	0.4	0	0.4	1.1	0	0	0	0	0	0	0	0
147-168	0	0	0.4	0.8	0	0	0	0	0	0	0	0
168-191	0	0	0.8	0	0.4	0.8	0.8	0	0	0	0	0
192-213	0	0	2.3	1.5	0.8	1.5	0	0.4	0	0	0	0
214-236	0	0.4	0.4	1.5	0.4	1.9	0	1.5	0.4	0	0	0
237-258	0	0	2.3	1.9	1.1	1.9	0.4	1.5	0	0	0	0
259-281	0.4	0	1.5	1.5	1.1	3.8	1.5	0.4	0.8	0	0	0
282-303	0	0.4	1.9	2.3	3	1.9	2.6	0.4	0	0	0	0
304-326	0	0	3.8	1.9	3	1.9	1.9	0.4	0.4	0	0	0
327-348	0	0	4.2	0.8	1.9	1.1	0.8	0	0	0	0	0.4



Mangalore

March 300 hPa level

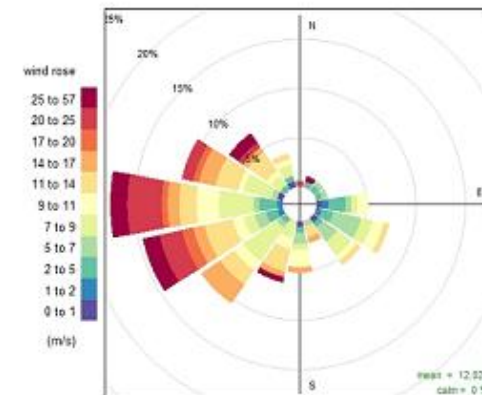
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0.4	0	0.4	0.8	0.4	0	0.8	0	0	0	0	0.4
12-33	0	0	1.7	0.8	0	0	0	0	0	0	0	0
34-56	0	0	0	0.4	0	0	0	0	0	0	0	0
57-78	0	0	0.4	0	0	0	0	0	0	0	0	0
79-101	0	0	0.4	0.4	0	0	0	0	0	0	0	0
102-123	0	0	0.4	0	0	0	0	0	0	0	0	0
124-146	0	0.4	0	0	0	0	0.4	0	0	0	0	0
147-168	0.4	0	0.4	0	0	0	0.4	0	0	0	0	0
168-191	0	0	0.8	0.4	0	0	0	0	0	0	0	0
192-213	0.4	0	1.7	0	0.4	0.4	0	0	1.2	1.2	0.8	0
214-236	0	0	0.4	0.8	0.8	0.4	2.1	0.8	0.4	1.2	2.9	0
237-258	0.4	0.4	0.8	0.4	1.2	2.5	1.7	2.9	1.7	2.1	2.5	0
259-281	0	0	1.7	2.9	2.1	2.1	5	4.1	4.1	2.9	4.5	0
282-303	0	0	2.1	0.4	0.8	1.2	3.7	2.5	1.2	2.9	1.2	0
304-326	0	0	1.2	1.2	1.2	1.2	0.8	0.4	0.8	0.8	1.2	0
327-348	0	0	0	0.4	0.4	0	0.4	0	0.4	0	0	0



Mangalore

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	0.5	0	0.5	0.5	0.5	0	0.5	0	0	0	0	
12-33		0	0	0.5	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	0.5	0	0	0	0	0	0	0	0	
102-123		0	0	1	0	0	0	0	0	0	0	0	
124-146		0.5	0.5	0.5	0	0	0	0	0	0	0	0	
147-168		0	0	1	1	1	0	0	0.5	0	0	0	
168-191		0	0	1	0.5	1	0.5	0.5	0.5	1	0	0	
192-213		0	0.5	0	0.5	0	0	0	1	1	1	0.5	0
214-236		0	0	0.5	0	0.5	1	1	1	1	1.5	1	1
237-258		0	0.5	1	0.5	2	1	4	2	2	2.5	4	
259-281		0	0.5	3	0.5	1.5	1.5	4.5	4.5	4	5.4	5	
282-303		0.5	0	1	2	0.5	0.5	0	0.5	3.5	1.5	3	
304-326		0	0	0.5	1	0	0.5	0	3	2	0.5	0.5	
327-348		0.5	1	0	0.5	0	0	0	0.5	0	0.5	0	0

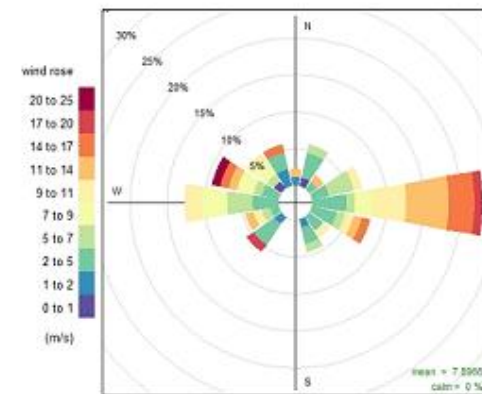


Frequency of counts by wind direction (%)

Mangalore

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	0	0	0	0.7	0	0	0	0	0	0
12-33		0	2.2	0.7	0	1.5	0	0	0	0	0	0
34-56		0	0	1.5	0.7	1.5	1.5	0	0	0	0	0
57-78		0	0	1.5	0	0.7	0.7	1.5	0	0	0	0
79-101		0.7	0.7	1.5	1.5	0.7	0.7	1.5	0	0	0	0
102-123		0	0	0.7	2.2	0.7	0	0	0.7	0	0	0
124-146		0	0	3.6	1.5	0.7	0	0	0	0	0	0
147-168		0	0.7	1.5	0	0	0.7	0	0.7	0	0	0
168-191		0	0	0	0	0	0	0	0.7	0	0	0
192-213		0.7	0.7	2.2	2.2	0	0	0	0	0	0	0
214-236		1.5	0.7	1.5	0	1.5	0	0.7	0	0	0	0.7
237-258		0	1.5	1.5	2.9	2.2	0.7	1.5	1.5	0	0	0
259-281		0	0	2.2	2.2	2.2	0.7	4.4	4.4	1.5	2.2	0
282-303		0	0	0.7	0.7	0	1.5	1.5	1.5	2.2	0	0
304-326		0	0	2.2	2.9	0.7	0	0	0.7	0.7	0.7	0
327-348		0	0	2.2	0.7	0	0.7	0	0	0	0	0

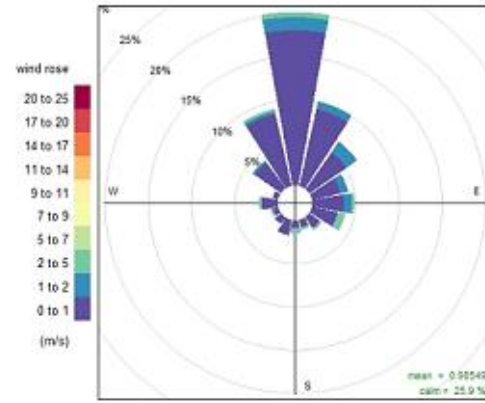


Frequency of counts by wind direction (%)

Mangalore

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	25	3.2	2.8	6	0	0	0	0	0	0	0	0
12-33		3.9	7.1	1.1	0	0	0	0	0	0	0	0
34-56		5	2.1	0	0	0	0	0	0	0	0	0
57-78		4.3	1.1	0.4	0	0	0	0	0	0	0	0
79-101		3.5	3.2	1.8	0	0	0	0	0	0	0	0
102-123		2.8	1.1	0.7	0.4	0	0	0	0	0	0	0
124-146		1.4	1.4	0	0	0	0	0	0	0	0	0
147-168		0.7	1.1	0	0	0	0	0	0	0	0	0
168-191		1.1	0.7	0.7	0.4	0	0	0	0	0	0	0
192-213		0	0.4	0.4	0	0	0	0	0	0	0	0
214-236		0.4	0.7	0	0	0	0	0	0	0	0	0
237-258		0.4	0	0	0	0	0	0	0	0	0	0
259-281		1.1	0	0	0	0	0	0	0	0	0	0
282-303		0	1.1	0.4	0	0	0	0	0	0	0	0
304-326		2.1	2.1	2.5	0	0	0	0	0	0	0	0
327-348		1.8	1.4	2.5	0	0	0	0	0	0	0	0

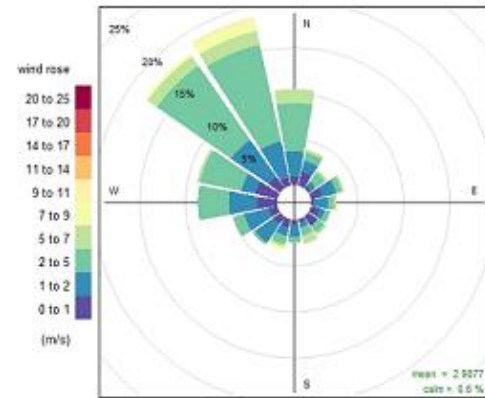


Frequency of counts by wind direction (%)

Mangalore

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	0	0.4	0	2.1	2.5	2.1	0.7	0	0	0	0	0
12-33		0.7	0.4	0.7	0.4	0.4	0	0	0	0	0	0
34-56		0.4	1.1	1.8	0	0.4	0	0	0	0	0	0
57-78		0	0.4	1.8	0	0	0	0	0	0	0	0
79-101		0.4	0	1.1	0.7	0.4	0	0	0	0	0	0
102-123		0	0.4	0.7	0	0.4	0	0.4	0	0	0	0
124-146		0	0	2.1	0	0.4	0	0.4	0	0	0	0
147-168		0.4	0.4	0	0.4	0.4	0	0	0	0	0	0
168-191		0.7	0.7	1.1	0	0	0	0	0	0	0	0
192-213		0.7	0.4	1.8	1.1	0	0	0	0	0	0	0
214-236		1.1	1.8	3.2	0.4	0	0	0	0	0	0	0
237-258		0.4	1.4	2.8	0.7	0.4	0	0	0	0	0	0
259-281		1.1	2.1	3.2	0.4	0	0	0	0	0.4	0	0
282-303		0	1.1	7	1.1	0.7	0	0	0	0	0	0
304-326		0.4	1.1	10.9	4.9	2.8	0.4	0.7	0	0	0	0
327-348		0.7	0.4	6.3	4.2	4.6	1.8	0.4	0	0	0	0

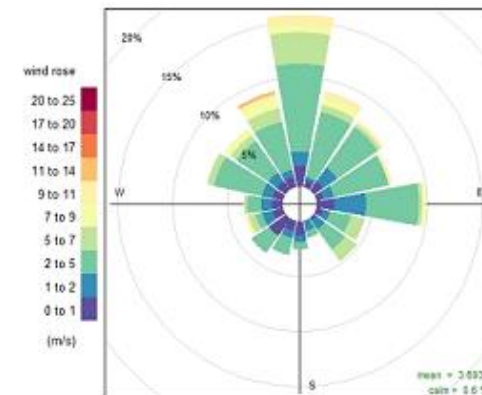


Frequency of counts by wind direction (%)

Mangalore

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	0.4	5.3	5.6	3.2	1.8	0.7	0.7	0	0	0	0
12-33	0.4	0.7	4.2	2.1	0.7	0	0	0	0	0	0	0
34-56	0	1.1	2.8	1.4	0.4	0.4	0	0	0	0	0	0
57-78	0	0.4	2.1	1.8	0.7	0.4	0	0	0	0	0	0
79-101	0.4	0	1.1	1.1	0	0	0	0	0	0	0	0
102-123	0.4	0.7	1.4	0.7	1.1	0.4	0	0	0	0	0	0
124-146	0.4	0	0	0	0.7	0.4	0	0	0	0	0	0
147-168	0	0	0.7	0	0	0	0	0	0	0	0	0
168-191	0	0.7	1.8	0.4	0	0	0	0	0	0	0	0
192-213	0	0	0.7	0.4	0	0	0	0	0	0	0	0
214-236	0	0.4	0.7	0.4	0.4	0	0	0	0	0	0	0
237-258	0	0	1.1	0.7	0.7	0	0	0	0	0	0	0
259-281	0.4	0	3.2	0.4	0.4	0.7	0.4	0	0	0	0	0
282-303	0	0.4	2.5	2.1	1.8	0.4	0.4	0	0	0	0	0
304-326	0.7	1.1	4.6	2.1	1.4	2.5	0.4	0	0	0	0	0
327-348	0	0.7	5.3	6	4.2	2.8	1.4	0	0	0	0	0

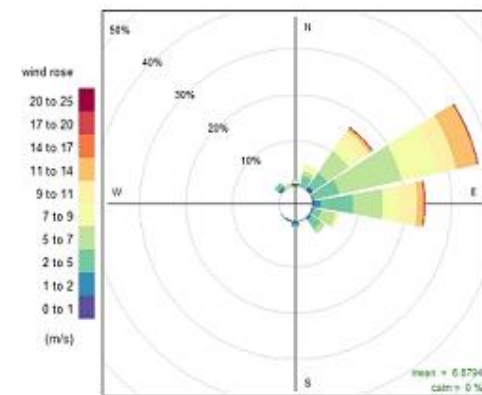


Frequency of counts by wind direction (%)

Mangalore

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	0	0	2.1	0.4	0	0	0	0	0	0	0	0
12-33	1.1	0.4	1.8	2.1	0.4	0	0	0	0	0	0	0
34-56	0	0.7	5.3	2.5	1.8	0.7	0.4	0	0	0	0	0
57-78	0.4	0.7	7.7	3.5	2.5	1.1	0	0	0	0	0	0
79-101	0.7	0.7	9.2	4.9	3.5	0.7	1.1	0	0	0	0	0
102-123	0.4	1.4	7.4	4.2	2.5	1.1	0	0	0	0	0	0
124-146	0.4	0.4	4.9	3.2	0.7	0	0	0	0	0	0	0
147-168	0.7	0.4	1.8	1.4	0.4	0	0	0	0	0	0	0
168-191	0.7	0.7	2.1	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	0
214-236	0	0	1.1	0.4	0	0.4	0.4	0	0	0	0	0
237-258	0	0	0.7	0.7	0	0.4	0	0	0	0	0	0
259-281	0	0	0.4	0	0.4	0	0	0	0	0	0	0
282-303	0	0	0.7	0.4	0	0	0	0	0	0	0	0
304-326	0	0	0.4	0	0	0	0.4	0.4	0	0	0	0
327-348	0.4	0	0.7	0.4	0	0	0	0	0	0	0.4	0

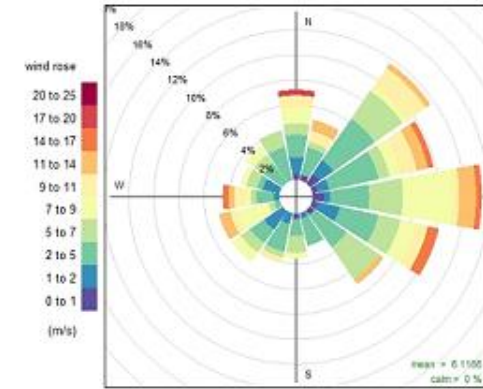


Frequency of counts by wind direction (%)

Mangalore

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	2.4	1.2	2.4	1.2	0	0	0	0	0	0
12-33	0	0.8	3.1	3.1	2	1.2	1.6	0.8	0	0	0	0
34-56	0	0	2	0.8	1.2	0.8	0	0	0	0	0	0
57-78	0.4	1.2	2.7	0	0.4	0	0	0	0	0	0	0
79-101	0	1.2	2.4	0	2.4	0	0	0.4	0	0	0	0
102-123	0	0	0.8	0.8	1.2	0.8	0.4	0	0	0	0	0
124-146	0	0	1.2	1.2	0	1.2	0	0	0	0	0	0
147-168	0	0	0.4	0.8	0	0	0	0.4	0	0	0	0
168-191	0.4	0.8	2	0.4	0.4	0	0	0	0	0	0	0
192-213	0.4	0.8	0.8	1.2	0.4	0.4	0	0	0	0	0	0
214-236	0	1.6	2.4	2	0.4	0	0	0	0	0	0	0
237-258	0	0	1.6	2.4	0.8	1.6	0.4	0.4	0	0	0	0
259-281	0	0.8	2	2.4	1.2	2	2	0.4	0	0	0	0
282-303	0.4	0.4	1.6	1.6	2	0	0.4	0.4	0	0	0	0
304-326	0.4	0.4	2.7	0	1.6	1.6	0.4	0	0	0	0	0
327-348	0	0	4.7	2.7	1.6	0.8	0	0	0	0	0	0.4

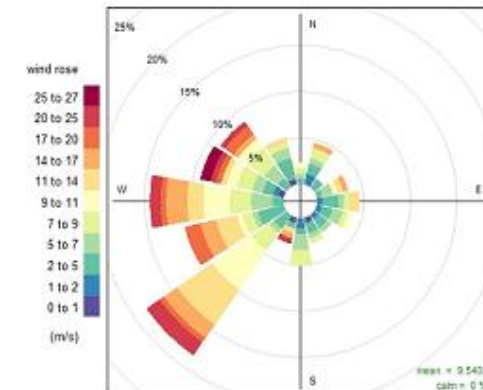


Frequency of counts by wind direction (%)

Mangalore

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	0.9	1.8	0	1.4	1.4	0	0.9	0	0	0
12-33	0.5	0	1.8	0.5	0.9	0	0.9	0	0	0	0	0
34-56	0	0	0.5	0.5	0.5	0	0	0	0	0	0	0
57-78	0.5	0.5	0.5	0.5	0	0	0.5	0.5	0	0	0	0
79-101	0	0.9	0.9	0.5	0	0.5	0	0	0	0	0	0
102-123	0	0	0.9	0	0	0	0	0	0	0	0	0
124-146	0	0	0.5	0.5	0	0	0	0	0	0	0	0
147-168	0	0	0.5	0	0	0	0	0	0	0	0	0
168-191	0	0	0.9	0	0	0	0	0	0	0	0	0
192-213	0	0	0.5	0.5	0.9	0	0.5	0.5	0.9	0.9	0.5	0
214-236	0	0	1.8	0.5	0.5	0.9	1.8	2.3	3.6	2.3	0.5	0
237-258	0	0	1.4	2.3	1.8	1.4	2.3	5.5	1.8	2.7	0	0
259-281	0	0	0.5	1.4	0.9	3.2	4.5	3.2	1.4	2.3	0	0
282-303	0.5	0	1.8	0.5	0.9	1.8	1.8	1.8	2.3	0.9	0.5	0
304-326	0	0	0.9	0	0	0	0.9	0.9	1.4	0.5	0	0
327-348	0	0	0.5	0.9	0.9	0.5	0.9	0.9	0.9	0.5	0.5	0

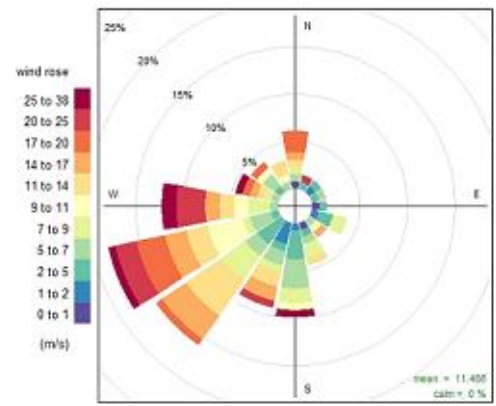


Frequency of counts by wind direction (%)

Mangalore

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	1.1	0	0	0	0	0	0.5	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0.5	0	0.5	0	0	0	0	0	0	0
57-78	0.5	0	0.5	0	0	0	0	0	0	0	0	0
79-101	0	0.5	0	0	0	0	0	0	0	0	0	0
102-123	0	0.5	0	0	0	0	0	0	0	0	0	0
124-146	0	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0	1.6	0	0.5	0	0	0.5	0	0	0	0
168-191	0	0.5	1.1	0.5	1.1	0.5	0	1.1	0	0	0	0
192-213	0	0.5	0.5	1.6	0	0	0.5	0.5	1.1	0.5	2.7	0
214-236	0	0	2.7	2.1	2.7	1.6	3.7	2.7	3.7	4.3	1.6	0
237-258	0	0.5	1.1	0.5	0.5	1.1	5.3	6.4	4.8	4.3	2.7	0
259-281	0	0	1.1	0	0.5	0.5	2.1	4.3	1.6	1.6	1.1	0
282-303	0.5	0	0.5	1.1	0.5	1.1	0.5	2.7	0.5	0.5	0	0
304-326	0	0	0	0	0.5	0	1.6	0	0.5	0.5	0	0
327-348	0	0	0	0	1.1	0	1.1	0	0.5	0.5	0.5	0

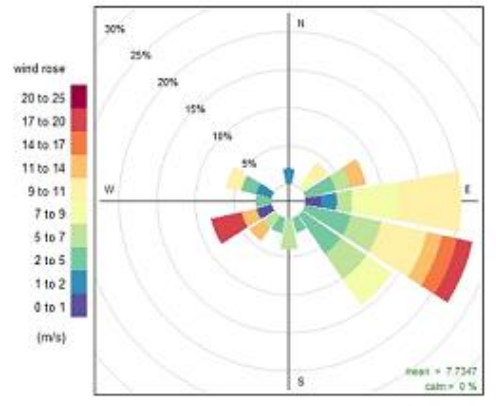


Frequency of counts by wind direction (%)

Mangalore

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	0.7	0.7	0	0.7	0	0	0	0	0	0	0
12-33	0	1.4	0.7	0.7	0.7	0	0.7	0	0	0	0	0
34-56	0.7	1.4	3.5	1.4	0.7	0	1.4	0	0	0	0	0
57-78	0	0.7	1.4	2.1	1.4	0.7	0.7	0.7	0	0	0	0
79-101	0.7	0	0.7	0.7	2.1	0.7	0.7	0	0	0	0	0
102-123	0	0.7	2.8	0.7	1.4	0	0.7	0.7	0	0	0	0
124-146	0.7	0.7	0	2.1	0.7	2.1	1.4	0.7	0	0	0	0
147-168	0	0	1.4	0	2.8	0	0	0	0	0	0	0
168-191	0	0.7	0	0	0	0	0	0	0	0	0	0
192-213	0	0	1.4	0.7	0.7	2.1	0	0	0	0	0	0
214-236	0	0	1.4	0.7	1.4	0.7	1.4	0.7	0.7	0	0	0
237-258	0	0	2.1	0	2.1	1.4	3.5	0	0	0	0	0
259-281	0	0	2.8	2.1	0.7	4.2	2.8	0.7	0	0.7	0	0
282-303	0	0	2.1	0.7	0.7	0	1.4	1.4	0.7	0	0	0
304-326	0	0	2.1	0	0.7	2.1	0	0.7	0	0	0	0
327-348	0	0.7	1.4	0	0.7	0	0	0	0	0	0	0

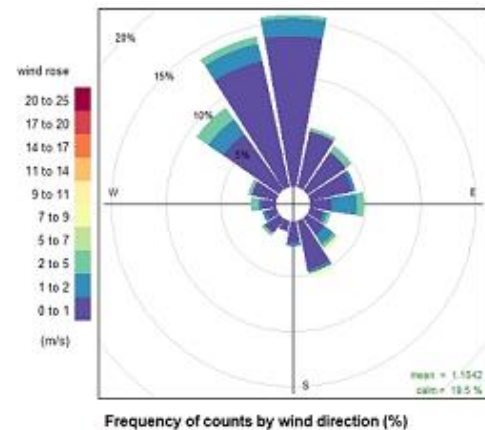


Frequency of counts by wind direction (%)

Mangalore

May 1000 hPa level

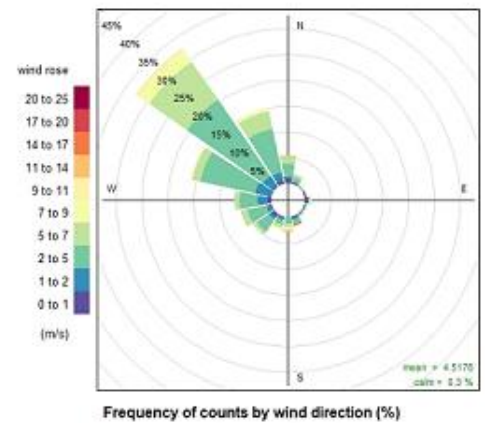
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	22	7.5	4.6	8.5	0	0	0	0	0	0	0	0.4
12-33		2.8	1.4	1.1	0	0	0	0	0	0	0	0
34-56		2.8	0.7	0	0	0	0	0	0	0	0	0
57-78		0.7	0.7	0	0	0.4	0	0	0	0	0	0
79-101		2.1	1.4	0.7	0	0	0	0	0	0	0	0
102-123		1.4	0	0	0	0	0	0	0	0	0	0
124-146		0.7	0	0	0	0	0	0	0	0	0	0
147-168		0.4	0	0.7	0	0	0	0	0	0	0	0
168-191		0.4	0.4	0	0	0	0	0	0	0	0	0
192-213		0.4	0.7	0.4	0	0	0	0	0	0	0	0
214-236		0.4	0.7	0.4	0	0	0	0	0	0	0	0
237-258		1.4	0.7	0	0	0	0	0	0	0	0	0
259-281		3.2	0.7	1.1	0	0	0	0	0	0	0	0
282-303		2.5	1.8	1.1	0	0	0	0	0	0	0	0
304-326		2.1	3.2	4.6	0.4	0	0	0	0	0	0	0
327-348		5	3.6	3.2	0.4	0	0	0	0	0	0	0



Mangalore

May 925 hPa level

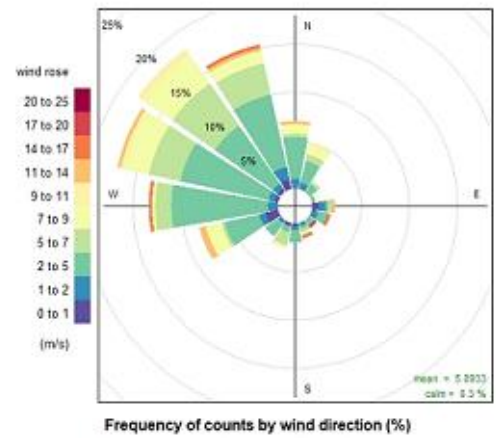
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.5	0.3	0.6	0	0	0	0	0	0
12-33		0.3	0	0.6	0.6	0	0	0	0	0	0	0
34-56		0.6	0	0.6	0.3	0	0	0	0	0	0	0
57-78		0	0	0.6	0.6	0	0	0	0	0	0	0
79-101		0	0	0	0.3	0	0	0	0.3	0	0	0
102-123		0	0.3	0	0.3	0	0	0	0	0	0	0
124-146		0.3	0.3	0.3	0	0	0	0	0	0	0	0
147-168		0	0	0.3	0.3	0	0.3	0	0	0	0	0
168-191		0.3	0.3	0.9	0	0	0	0	0	0	0	0
192-213		0.3	0.3	0.9	0.6	0.6	0	0	0	0	0	0
214-236		0	0.6	3.3	0.6	0.3	0.3	0	0.3	0	0	0
237-258		0.3	0.9	4.7	1.2	0.6	0.3	0	0.3	0	0	0
259-281		0	0.9	6.8	1.8	0.9	0	0	0	0	0.3	0
282-303		0.3	2.1	9.8	3.6	1.2	0.3	0	0	0	0	0
304-326		0	0.3	7.1	12.7	6.5	3	0.3	0	0	0	0
327-348		0	0.3	3.8	3.8	2.7	3.3	0.9	0	0	0	0



Mangalore

May 850 hPa level

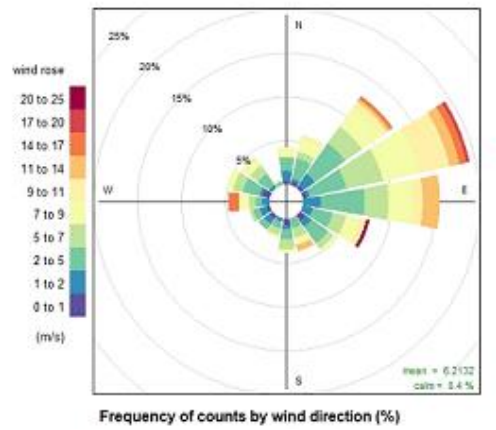
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1	4.3	0.3	1	0	0.3	0	0	0	0	0
12-33	0	0.7	2.3	0.7	1	0.3	0	0	0	0	0	0
34-56	0	0	1	0.3	0	0	0	0	0	0	0	0
57-78	0	0	0.3	0	0.3	0	0	0	0	0	0	0
79-101	0.7	0.7	0.3	0.3	0	0	0.3	0	0	0	0	0
102-123	0	0.7	1	0	0	0	0	0.3	0	0	0	0
124-146	0	0	0.7	0	0	0	0	0	0.3	0	0	0
147-168	0	0.3	0.3	0.3	0	0.3	0	0.3	0	0	0	0
168-191	0.3	0.3	1.3	0	0	0	0	0	0	0	0	0
192-213	0.3	0	0.7	1.3	0	0.3	0	0	0	0	0	0
214-236	0	0.3	1.7	0	0	0	0	0	0	0	0	0
237-258	1.3	0.7	3.7	0.3	1.7	0	0.7	0	0	0	0	0
259-281	0	1	10	1.7	0.3	0	0	0.3	0	0	0	0
282-303	0.3	0.7	9.3	3.3	2.7	0.3	0.3	0	0	0	0	0
304-326	0.3	0.7	7.3	5.3	3.7	0.7	0	0	0	0	0	0
327-348	1	1.3	7.7	3.3	1.3	0	0.3	0.3	0	0	0	0



Mangalore

May 700 hPa level

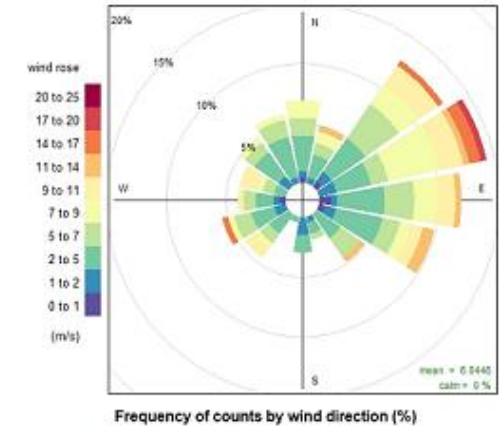
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0.4	1.2	1.6	0	1.2	0	0	0	0	0	0	0
12-33	0.4	0.4	2.3	0.8	1.6	0.4	0	0	0	0	0	0
34-56	0.4	1.6	4.3	2.3	2.7	0.8	0.4	0.4	0	0	0	0
57-78	0.4	0.4	4.3	4.3	4.3	3.5	1.2	0.8	0.4	0	0	0
79-101	0	1.9	5	2.7	2.7	1.2	1.9	0	0	0	0	0
102-123	0	1.2	2.3	1.6	1.6	0.8	0	0	0	0.4	0	0
124-146	0.8	0.8	2.3	0.8	0.4	0	0	0	0	0	0	0
147-168	0	0	1.2	1.2	0.8	0	0.8	0	0	0	0	0
168-191	0.8	0.4	1.2	1.2	0.4	0	0	0	0	0	0	0
192-213	0	0.4	0.8	0.8	0.4	0	0	0	0	0	0	0
214-236	0.4	0.8	0.8	0	0	0	0	0	0	0	0	0
237-258	0.4	0.8	0.8	0.4	0	0	0	0	0	0	0	0
259-281	0	0.8	0.8	0.8	0.8	0.4	0	1.2	0	0	0	0
282-303	0.8	0.4	1.9	1.2	0.8	0	0	0	0	0	0	0
304-326	0	0.4	1.6	1.2	0.8	0.4	0	0	0	0	0	0
327-348	0	0	0.4	0	0.4	0	0	0	0	0	0	0



Mangalore

May 500 hPa level

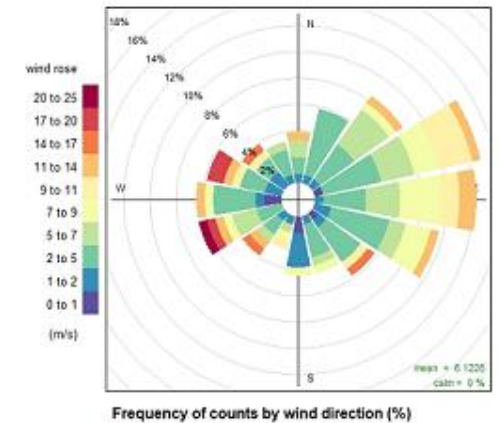
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.5	0.5	3	1.5	1.5	0	0	0	0	0	0
12-33	0	0	0.5	2	1	1	0	0.5	0	0	0	0
34-56	0	0.5	1	3.5	3.5	2	2	0	0.5	0	0	0
57-78	0	0	1.5	3	1.5	4.5	2	0.5	1	0.5	0	0
79-101	0	1	0.5	4	2.5	2	1.5	0.5	0	0	0	0
102-123	0	0.5	1	4	1.5	1	1	1	0	0	0	0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



Mangalore

May 300 hPa level

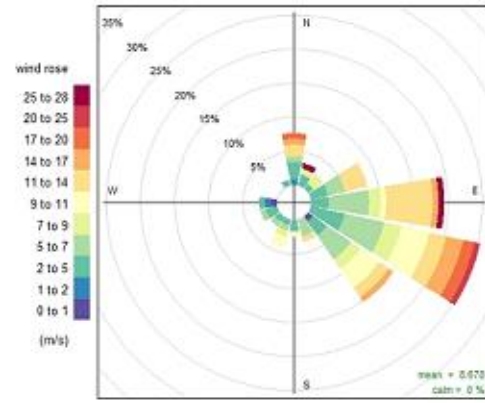
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.6	1.3	1.3	0	0	0.6	0	0	0	0
12-33	0	0	0.6	5.2	0	0	0	0	0	0	0	0
34-56	0	0	0.6	3.2	3.2	0.6	0	0.6	0	0	0	0
57-78	0	0.6	0	4.5	2.6	1.9	2.6	0.6	0	0	0	0
79-101	0	0	0.6	3.2	2.6	3.2	1.3	1.3	0	0	0	0
102-123	0	0	1.3	4.5	1.3	1.9	0	0.6	0	0	0	0
124-146	0	0.6	0.6	3.2	0	0	0.6	0	0.6	0	0	0
147-168	0	0	0.6	2.6	0.6	0.6	0	0	0	0	0	0
168-191	0	1.3	2.6	0	0	0.6	0	0	0	0	0	0
192-213	0	0	0.6	0	0.6	0.6	0.6	0	0	0	0	0
214-236	0	0	0.6	1.3	0.6	0	0	0.6	0.6	0	0	0
237-258	0	0	0	1.9	1.9	0.6	0	0.6	0	0.6	0.6	0
259-281	0	1.3	0.6	3.2	0	0.6	0	0.6	0	0	0	0
282-303	0	0	1.3	1.9	0	0	0.6	0.6	0	1.3	0	0
304-326	0	0	1.3	1.3	0	0	0.6	0	0.6	0	0	0
327-348	0	0	0.6	1.9	0.6	0	0	0	0	0	0	0



Mangalore

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	0.8	2.5	0.8	0	0	1.7	0.8	0.8	0	0
12-33		0	0	1.7	0	0.8	0	0	0	0	0	0.8
34-56		0	0	0.8	0	1.7	0	0	0	0	0	0
57-78		0	0	2.5	2.5	0	0	3.4	0	0	0	0
79-101		0	0	2.5	5.9	1.7	0.8	6.8	0.8	0	0	0.8
102-123		0	0	5.1	5.9	2.5	4.2	2.5	2.5	1.7	0.8	0
124-146		0.8	0	2.5	4.2	1.7	3.4	1.7	0.8	0	0	0
147-168		0	0	0	2.5	0	0	0.8	0	0	0	0
168-191		0	0	1.7	0	0	0.8	0	0	0	0	0
192-213		0	0	0.8	0.8	0.8	1.7	0	0	0	0	0
214-236		0	0	0.8	0.8	0	0	0	0	0	0	0
237-258		0	0	1.7	0.8	0	0	0	0	0	0	0
259-281		0.8	0.8	0.8	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	0.8	0	0	0	0	0	0	0	0

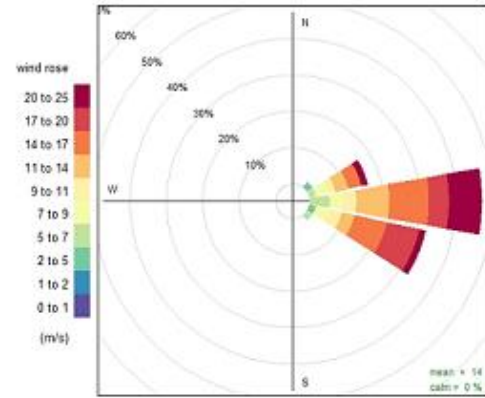


Frequency of counts by wind direction (%)

Mangalore

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	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	1.8	0	0	0	0	0	0	0	0
57-78		0	0	0	1.8	3.6	1.8	3.6	3.6	0	1.8	0
79-101		0	0	0	5.5	3.6	3.6	9.1	10.9	5.5	9.1	0
102-123		0	0	1.8	0	3.6	3.6	3.6	9.1	9.1	1.8	0
124-146		0	0	0	1.8	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

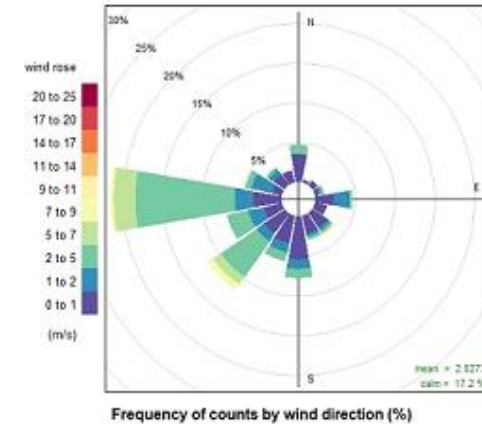


Frequency of counts by wind direction (%)

Mangalore

June 1000 hPa level

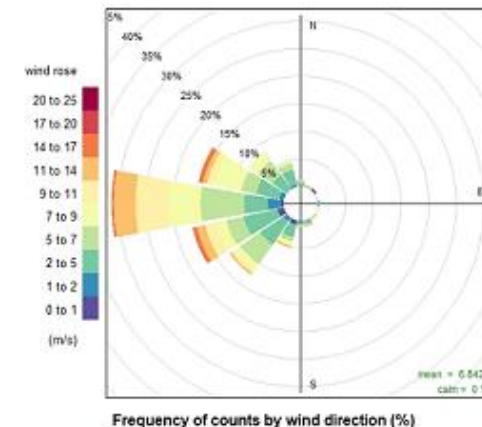
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	17	3.5	0	1.2	0	0	0	0	0	0	0	0
12-33		0.4	0	0	0	0	0	0	0	0	0	0
34-56		0.8	0	0	0	0	0	0	0	0	0	0
57-78		0.4	0.4	0.4	0	0	0	0	0	0	0	0
79-101		2.3	2	0.4	0	0	0	0	0	0	0	0
102-123		1.6	0	0	0	0	0	0	0	0	0	0
124-146		2.3	0.4	0.4	0	0	0.4	0	0	0	0	0
147-168		2	0.4	0.4	0	0	0	0	0	0	0	0
168-191		5.9	1.2	1.2	0	0	0	0	0	0	0	0
192-213		3.5	1.2	1.2	0	0	0	0	0	0	0	0
214-236		3.1	1.2	5.5	1.2	0.8	0	0	0	0	0	0
237-258		2.3	2	2.7	0	0	0	0	0	0	0	0
259-281		3.5	2.3	12.5	2.7	0.4	0	0	0	0	0	0
282-303		1.2	2.7	0.8	0	0	0	0	0	0	0	0
304-326		1.6	0.8	0.4	0	0	0	0	0	0	0	0
327-348		1.6	0	0	0	0	0	0	0	0	0	0



Mangalore

June 925 hPa level

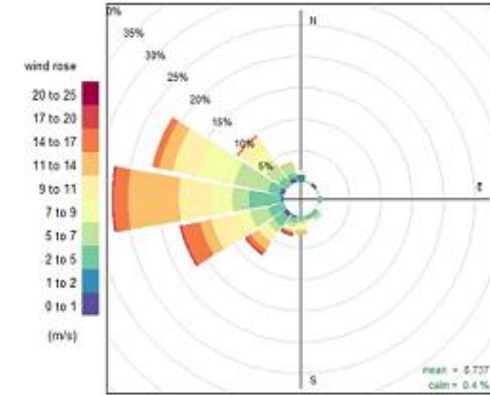
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.8	0.4	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0.4	0	0	0	0
34-56		0.4	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0.4	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0.4	0.4	0	0	0	0	0	0
147-168		0	0	0.8	0	0	0	0.4	0	0	0	0
168-191		0	0.4	0.4	0.4	0	0	0	0	0	0	0
192-213		0.8	0	2.4	0.8	0.8	0	0.4	0	0	0	0
214-236		0	0.8	5.1	4.3	1.2	0.8	0.4	0	0	0	0
237-258		1.2	0	6.3	3.1	2	2	1.6	0.8	0	0	0
259-281		0.4	2.4	4.3	7.9	5.9	5.9	3.9	0.4	0	0	0
282-303		0	0.8	4.3	2.8	5.1	1.2	0.8	0.8	0	0	0
304-326		0	0	3.1	3.1	2	0	0	0	0	0	0
327-348		0	0.4	2.8	1.2	0.4	0	0	0	0	0	0



Mangalore

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	0.9	0	0	0	0	0	0	0	0	0
12-33	0	0	0.4	0	0	0	0	0	0.4	0	0	0
34-56	0	0	0	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	0.4	0	0.4	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	0	0	0	0	0.4	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	0.9	0.4	0	0	0	0	0	0
192-213	0	0.4	0.4	0.4	0	0	0	0	0	0	0	0
214-236	0	0.9	1.3	1.8	0.4	0.9	1.8	0	0	0	0	0
237-258	0	2.2	2.2	3.1	1.3	1.8	3.1	2.2	0	0.4	0	0
259-281	0.4	0.9	4	4	7.5	7.9	7.5	2.2	0.9	0.9	0	0
282-303	0	0.4	4	3.1	4.4	4	4.8	1.8	0	0	0	0
304-326	0	0.4	2.2	2.6	3.1	0.4	0.4	0	0	0	0	0
327-348	0	0	1.3	0.4	0.4	0	0	0	0	0	0	0

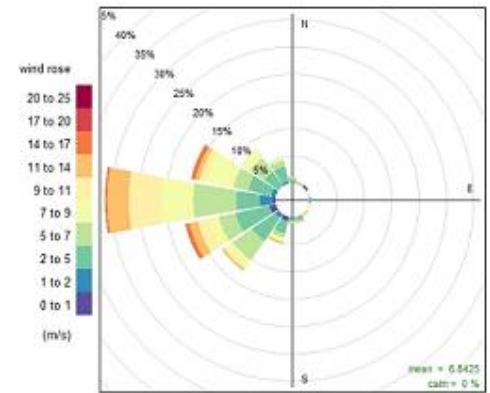


Frequency of counts by wind direction (%)

Mangalore

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	0.6	2.5	0	0	0	0	0	0	0	0	0	0
12-33	0.6	0	0.6	0	0.6	0	0	0	0	0	0	0
34-56	0	0.6	0	0	0	0	0	0	0	0	0	0
57-78	0	0	1.3	0.6	1.3	0	0	0	0	0	0	0
79-101	1.3	0.6	2.5	0	0	0	0	0	0	0	0	0
102-123	0.6	0	0	0.6	0	0	0	0	0	0	0	0
124-146	0	0	1.9	0.6	0.6	0	0	0	0	0	0	0
147-168	0	0.6	1.9	0	0.6	0	0	0	0	0	0	0
168-191	0	0	0.6	1.9	0	0	0	0	0	0	0	0
192-213	0	0	1.3	0	0	0.6	0	0	0	0	0	0
214-236	1.3	0	1.3	0.6	1.3	0	0	0	0	0	0	0
237-258	0.6	0	0.6	1.3	3.8	1.9	1.9	1.3	0	0	0	0
259-281	0	1.3	3.1	1.3	5.7	3.8	4.4	6.3	1.3	0.6	0	0
282-303	1.9	0	3.1	3.8	2.5	2.5	4.4	1.9	0	0	0	0
304-326	0	0	1.3	1.3	2.5	1.3	1.9	0	0	0	0	0
327-348	0	0	0.6	0.6	0	0.6	0	0	0	0	0	0

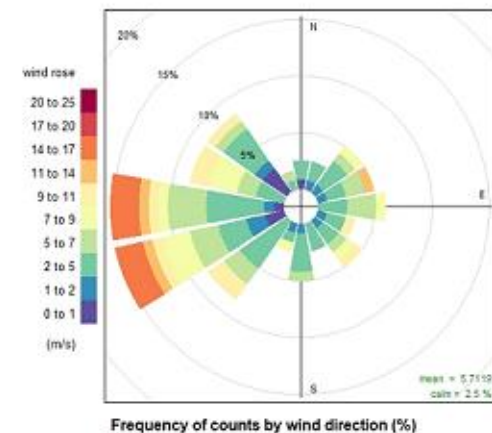


Frequency of counts by wind direction (%)

Mangalore

June 500 hPa level

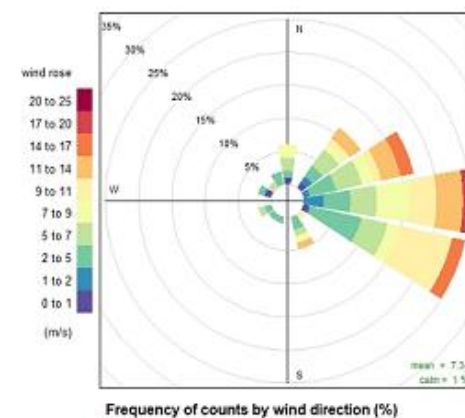
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.8	0	1.7	0	0	0	0	0	0	0	0
12-33	0	0	0.8	1.7	0	0	0	0	0	0	0	0
34-56	0	0	0.8	2.5	0.8	0.8	0	0	0	0	0	0
57-78	0	0	0.8	1.7	1.7	0	0	0.8	0	0	0	0
79-101	0	0	0	2.5	2.5	0.8	0	0	0	0	0	0
102-123	0	0	0.8	1.7	0	0	0.8	0	0	0	0	0
124-146	0	0	0.8	1.7	0.8	0.8	0.8	0	0	0	0	0
147-168	0	0	0	2.5	0	0	0	0	0	0	0	0
168-191	0	0	0.8	3.4	0.8	0	0	0	0	0	0	0
192-213	0	0	0.8	0.8	0	0.8	0	0	0	0	0	0
214-236	0	0	0	5.1	1.7	0	1.7	0	0	0	0	0
237-258	0	1.7	1.7	2.5	2.5	2.5	0.8	0.8	2.5	0	0	0
259-281	0	0.8	0.8	5.1	3.4	0.8	0.8	0.8	2.5	0	0	0
282-303	0	0	0	2.5	1.7	2.5	1.7	0	0	0	0	0
304-326	0	2.5	0.8	3.4	0.8	0	0.8	0	0	0	0	0
327-348	0	0	0	0.8	0.8	0	0	0	0	0	0	0



Mangalore

June 300 hPa level

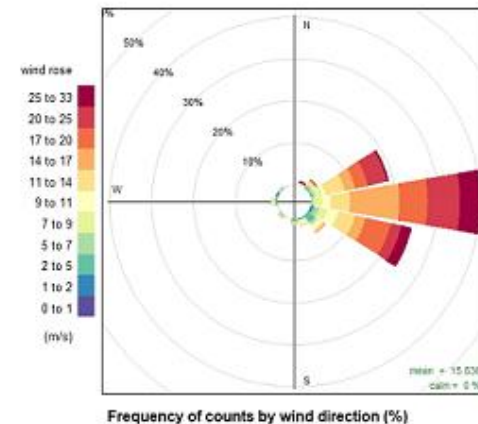
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1	0	1	2	2	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	1	1	2	3	1	1	2	0	0	0	0
57-78	0	0	1	4	4	2	1	3	2	0	0	0
79-101	0	0	3	4	4	5	4	4	0	1	0	0
102-123	0	1	0	8	4	2	8	0	2	0	0	0
124-146	0	0	0	0	0	0	1	0	0	0	0	0
147-168	0	0	0	2	1	1	0	1	0	0	0	0
168-191	0	0	0	0	0	0	0	0	0	0	0	0
192-213	0	0	0	1	0	0	0	0	0	0	0	0
214-236	0	0	0	1	0	0	0	0	0	0	0	0
237-258	0	0	0	1	1	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	0	0	0	0	0	0
282-303	0	1	0	1	0	0	0	0	0	0	0	0
304-326	0	0	0	0	1	0	0	0	0	0	0	0
327-348	0	0	0	2	0	0	0	0	0	0	0	0



Mangalore

June 200 hPa level

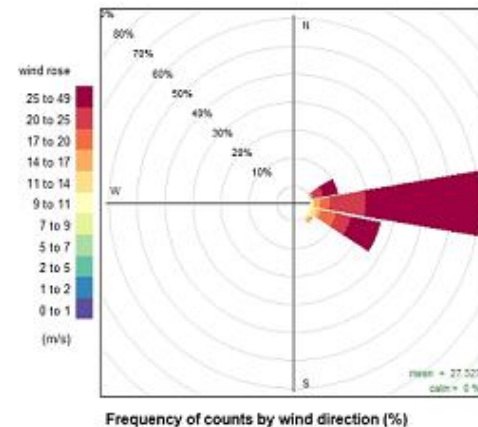
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	1.1	0	0	0	0	0	0	0	0	1.1
34-56	0	0	1.1	1.1	1.1	0	0	3.2	0	0	0	0
57-78	0	0	1.1	0	2.1	2.1	0	6.4	2.1	3.2	1.1	0
79-101	1.1	1.1	5.3	3.2	4.3	1.1	4.3	4.3	5.3	13.8	5.3	0
102-123	0	1.1	1.1	0	2.1	2.1	1.1	4.3	4.3	5.3	2.1	0
124-146	0	0	0	0	1.1	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



Mangalore

June 100 hPa level

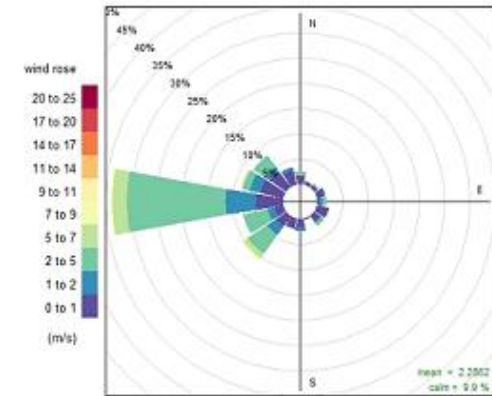
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	1.7	0	0	0	0	0	0
57-78	1.7	1.7	3.3	0	0	0	0	0	0	1.7	5	0
79-101	0	1.7	3.3	3.3	0	3.3	1.7	3.3	5	5	35	0
102-123	0	0	1.7	0	1.7	1.7	3.3	0	1.7	5	3.3	0
124-146	0	1.7	0	0	0	0	0	0	0	1.7	0	0
147-168	0	0	0	0	0	0	0	0	0	0	0	0
168-191	0	0	0	1.7	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



Mangalore

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		1.8	0	0.7	0	0	0	0	0	0	0	0
12-33		0.7	0	0	0	0	0	0	0	0	0	0
34-56		0.7	0	0.4	0	0	0	0	0	0	0	0
57-78		1.4	0.4	0	0	0	0	0	0	0	0	0
79-101		0.4	0.7	0.7	0	0	0	0	0	0	0	0
102-123		2.5	0	0	0	0	0	0	0	0	0	0
124-146		1.4	0.4	0.7	0	0	0	0	0	0	0	0
147-168	10	0.4	0	0	0	0	0	0	0	0	0	0
168-191		1.8	0.7	0	0	0	0	0	0	0	0	0
192-213		2.1	0	0	0	0	0	0	0	0	0	0
214-236		2.5	2.1	4.6	1.1	0.4	0	0	0	0	0	0
237-258		1.8	1.4	4.9	0	0	0	0	0	0	0	0
259-281		5.3	6	19.4	2.8	0.4	0	0	0	0	0	0
282-303		4.6	2.1	1.4	0.4	0	0	0	0	0	0	0
304-326		3.9	1.1	2.8	0	0	0	0	0	0	0	0
327-348		2.8	0.7	0	0	0	0	0	0	0	0	0

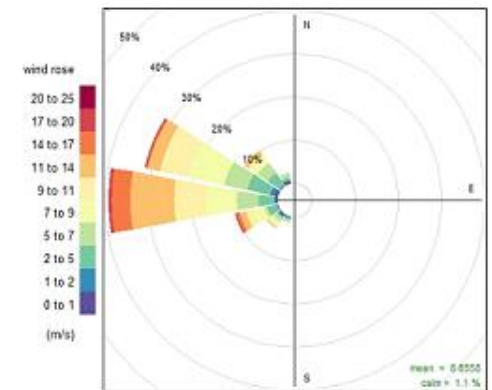


Frequency of counts by wind direction (%)

Mangalore

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		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	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	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	0.4	0.4	0.7	0	0	0	0	0	0	0
214-236		0.4	0.4	0.4	1.1	0.7	0.7	0.4	0	0	0	0
237-258		0	0.4	2.2	0.7	2.9	1.4	1.4	0.7	0.4	0	0
259-281		0.4	0.4	3.6	5.1	7.2	7.2	10.1	4.3	0.7	0	0
282-303		0.7	1.1	5.4	5.4	8.7	6.5	2.9	0.4	0.4	0	0
304-326		0	0.4	3.3	2.9	1.8	0.7	1.1	0	0	0	0
327-348		0.7	0	0.7	1.1	0	0	0	0	0	0	0

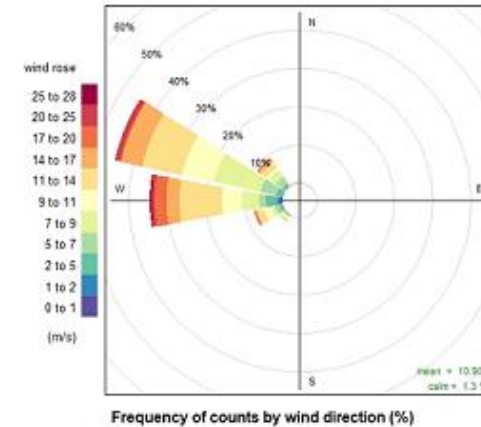


Frequency of counts by wind direction (%)

Mangalore

July 850 hPa level

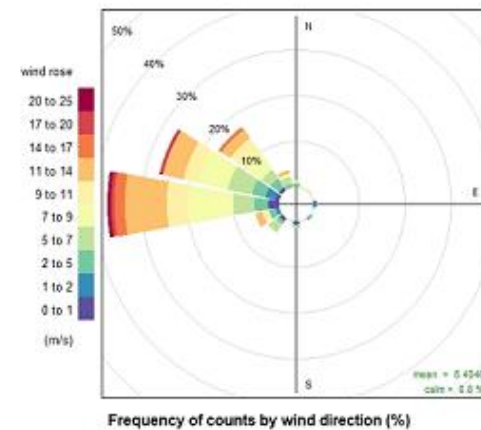
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.4	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	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	0.4	0	0.4	0.4	0.9	0	0	0	0
237-258		0	0	0.9	1.3	0.9	2.1	1.7	0.4	0.4	0	0
259-281		0.4	0.9	3	1.7	4.7	5.1	11.1	3.4	3	0.9	0.4
282-303		0	0	1.7	4.3	12.3	8.5	10.6	5.5	0.4	1.3	0
304-326		0	0	0.9	2.1	2.1	0.9	1.7	0.9	0.4	0	0
327-348		0	0	0	0	0	0	0.4	0	0	0	0



Mangalore

July 700 hPa level

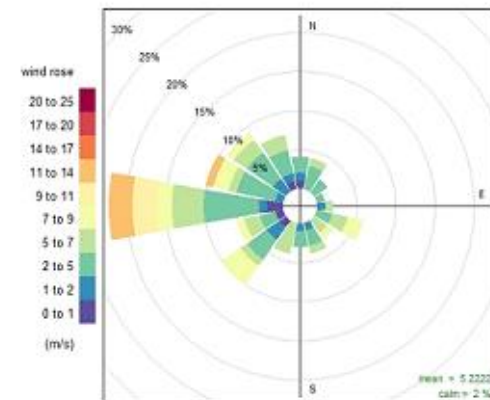
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.8	0	0	0.8	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0.8	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0.8	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0.8	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0.8	0	0	0.8	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0.8	0	0.8	2.3	0	0	0	0	0	0	0
237-258		0	0.8	1.5	0	0	1.5	1.5	0	0	0	0
259-281		2.3	0	3.1	4.6	9.9	4.6	9.2	2.3	0.8	0.8	0
282-303		0.8	2.3	3.1	5.3	6.9	3.1	4.6	0	0.8	0	0
304-326		0.8	0	2.3	2.3	4.6	3.8	2.3	0.8	0	0	0
327-348		0	0	0.8	1.5	0.8	0	0.8	0	0	0	0



Mangalore

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	1	1	2	0	0	0	0	0	0	0	0	0
12-33	0	0	3	1	0	0	0	0	0	0	0	0
34-56	0	0	2	0	0	0	0	0	0	0	0	0
57-78	0	0	1	0	0	0	0	0	0	0	0	0
79-101	0	1	0	1	0	0	0	0	0	0	0	0
102-123	0	0	2	2	2	0	0	0	0	0	0	0
124-146	0	0	0	2	1	0	0	0	0	0	0	0
147-168	0	1	2	1	0	0	0	0	0	0	0	0
168-191	0	1	2	0	0	0	0	0	0	0	0	0
192-213	0	0	0	4	0	0	0	0	0	0	0	0
214-236	1	2	3	1	3	0	0	0	0	0	0	0
237-258	1	0	2	2	1	0	0	0	0	0	0	0
259-281	2	1	7.1	4	2	3	3	0	0	0	0	0
282-303	0	1	5.1	1	2	0	1	0	0	0	0	0
304-326	0	2	4	2	1	0	0	0	0	0	0	0
327-348	1	1	3	2	0	0	0	0	0	0	0	0

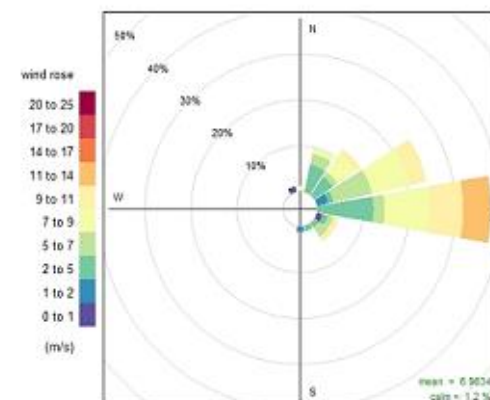


Frequency of counts by wind direction (%)

Mangalore

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	0	0	0	0	1.2	0	0	0	0	0	0	0
12-33	0	0	6.1	2.4	1.2	0	0	0	0	0	0	0
34-56	0	0	4.9	1.2	4.9	1.2	0	0	0	0	0	0
57-78	0	2.4	1.2	8.5	8.5	3.7	0	0	0	0	0	0
79-101	0	0	12.2	2.4	9.8	7.3	6.1	0	0	0	0	0
102-123	1.2	0	1.2	1.2	0	1.2	0	0	0	0	0	0
124-146	0	0	1.2	2.4	0	1.2	0	0	0	0	0	0
147-168	0	0	1.2	0	0	0	0	0	0	0	0	0
168-191	0	1.2	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	1.2	0	0	0	0	0	0	0	0	0	0	0

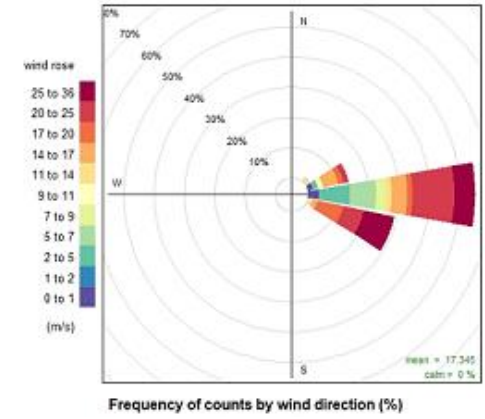


Frequency of counts by wind direction (%)

Mangalore

July 200 hPa level

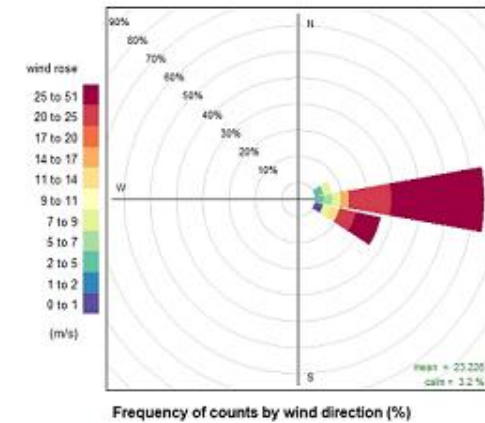
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	1.7	0	0	0	0	0
57-78	1.7	0	1.7	0	0	1.7	0	5.2	1.7	1.7	0	0
79-101	3.4	0	10.3	8.6	3.4	0	1.7	5.2	1.7	13.8	6.9	0
102-123	0	0	0	0	0	0	1.7	1.7	8.6	6.9	10.3	0
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



Mangalore

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	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	3.2	0	3.2	0	0	0	0	0	0	0
79-101	0	0	3.2	3.2	3.2	0	0	3.2	0	16.1	35.5	0
102-123	3.2	0	0	0	3.2	0	3.2	0	0	6.5	9.7	0
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

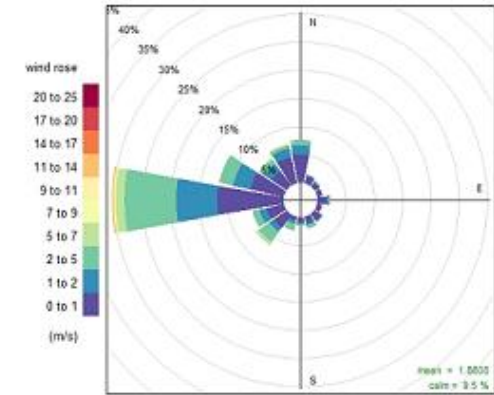


Mangalore

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	9	5.1	1.6	0.9	0	0	0	0	0	0	0	0
12-33		1.3	0.3	0	0	0	0	0	0	0	0	0
34-56		0.9	0	0.3	0	0	0	0	0	0	0	0
57-78		0.9	0	0	0	0	0	0	0	0	0	0
79-101		1.6	0.3	0.3	0	0	0	0	0	0	0	0
102-123		0.9	0	0	0	0	0	0	0	0	0	0
124-146		1.6	0	0.3	0	0	0	0	0	0	0	0
147-168		1.3	0.3	0.6	0	0	0	0	0	0	0	0
168-191		0.9	0.3	0.3	0	0	0	0	0	0	0	0
192-213		0.6	0.6	1.3	0	0	0	0	0	0	0	0
214-236		2.8	0.9	2.2	0.6	0	0	0	0	0	0	0
237-258		3.2	1.3	1.3	0	0	0	0	0	0	0	0
259-281		11.7	7.3	9.2	1.6	0.3	0	0.3	0	0	0	0
282-303		6	3.2	2.5	0	0	0	0	0	0	0	0
304-326		3.2	1.6	0.9	0.3	0	0	0	0	0	0	0
327-348		4.7	1.6	0.6	0	0.3	0	0	0	0	0	0



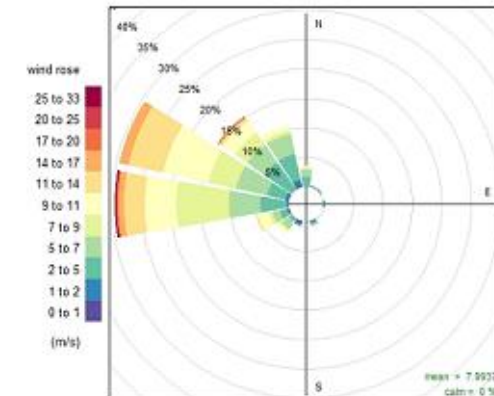
Frequency of counts by wind direction (%)

Mangalore

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	0	0	0	1.6	1.3	0.3	0.3	0	0	0	0	0
12-33		0	0	0.3	0	0	0	0	0	0	0	0
34-56		0	0	0.3	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0.3	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	0.3	0.3	0.3	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0.3	0.3	0.3	0	0	0	0	0	0	0	0
214-236		0	0	0.6	1.6	0.3	0.6	0	0	0	0	0
237-258		0.3	0	1.3	1.3	0.6	1.9	0.3	0	0	0	0
259-281		0	0.3	4.4	5.4	8.9	5.4	3.5	0.9	0.3	0	0.3
282-303		0	0.6	3.2	5.4	4.7	7.9	6	1.6	0	0	0
304-326	0	0	5.7	3.5	2.5	2.5	0.6	0	0.3	0	0	
327-348	0.3	0.9	4.4	3.5	0.6	0.9	0	0	0	0	0	



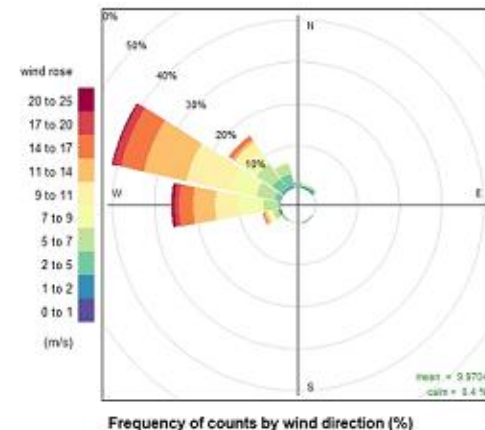
Frequency of counts by wind direction (%)

Mangalore

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	1.1	0.4	0	0	0	0	0	0	0	0
12-33	0	0.4	0.4	0	0.4	0.4	0	0	0	0	0	0
34-56	0	0.4	0.7	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	0	0	0.4	0	0	0	0	0	0	0	0	0
147-168	0	0	0.4	0	0.4	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	0.4	0	0	0.4	0	0	0	0	0	0
237-258	0.4	0	0.4	1.1	1.1	0.4	0.7	0.4	0	0	0	0
259-281	0	0	0.4	3.7	6.3	5.2	5.2	3.3	1.1	0.7	0	0
282-303	0	0	1.5	4.4	6.7	10.4	10.4	5.6	1.9	0.4	0	0
304-326	0	0.4	3	4.4	3.7	2.6	0.7	1.1	0	0	0	0
327-348	0	0.4	3	2.6	0.4	0	0	0	0	0	0	0

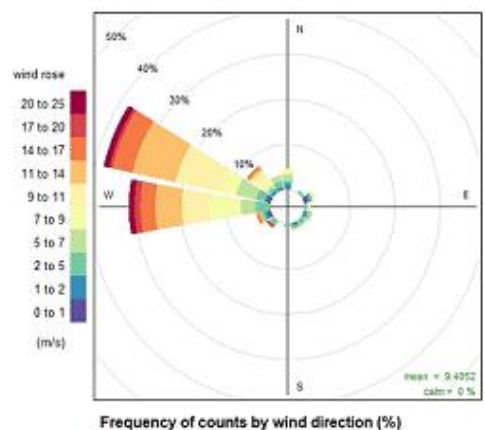


Mangalore

August

700 hPa level

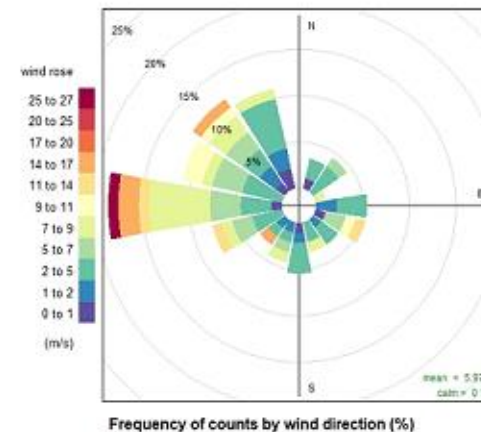
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1.3	0.7	1.3	1.3	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0.7	0	0	0	0	0	0	0	0	0
57-78	0.7	0.7	0.7	0	0.7	0	0	0	0	0	0	0
79-101	0	0	0.7	0	0	0.7	0	0	0	0	0	0
102-123	0	0.7	0.7	0.7	0	0	0	0	0	0	0	0
124-146	0	0	1.3	0	0	0	0	0	0	0	0	0
147-168	0	0.7	0.7	0	0.7	0	0	0	0	0	0	0
168-191	0	0	0.7	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	1.3	0	0	0	0	0	0.7	0	0	0
237-258	0.7	0.7	0.7	0	0	0	0.7	0.7	0	0	0	0
259-281	0	0	3.3	3.3	7.2	5.9	5.9	3.3	1.3	1.3	0	0
282-303	0.7	0.7	2	4.6	3.9	9.8	9.8	4.6	0.7	1.3	0	0
304-326	0	0.7	0.7	0.7	2.6	1.3	0.7	0.7	0	0	0	0
327-348	0	0.7	1.3	1.3	0	0	0	0	0	0	0	0



Mangalore

August 500 hPa level

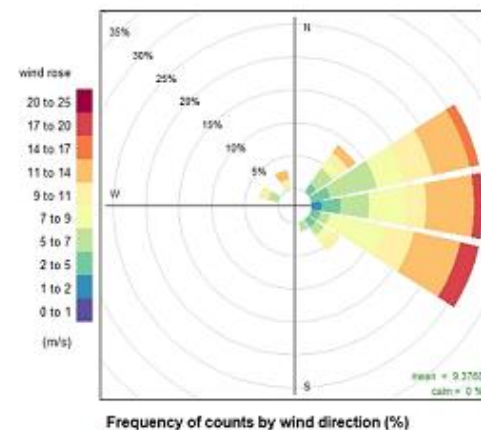
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	1.1	0	2.2	0	0	0	0	0	0	0	0	0
34-56	0	0	3.3	1.1	0	0	0	0	0	0	0	0
57-78	0	0	0	0	1.1	0	0	0	0	0	0	0
79-101	0	2.2	3.3	0	0	0	0	0	0	0	0	0
102-123	1.1	0	0	2.2	0	1.1	1.1	0	0	0	0	0
124-146	0	1.1	2.2	0	0	0	0	0	0	0	0	0
147-168	0	0	2.2	0	1.1	0	0	0	0	0	0	0
168-191	1.1	1.1	3.3	0	0	0	0	0	0	0	0	0
192-213	0	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0
214-236	0	1.1	1.1	0	0	0	0	1.1	0	0	0	0
237-258	0	0	3.3	2.2	1.1	0	1.1	0	0	0	0	0
259-281	1.1	0	3.3	3.3	6.6	0	1.1	2.2	0	0	0	1.1
282-303	0	0	4.4	3.3	1.1	2.2	0	0	0	0	0	0
304-326	1.1	2.2	2.2	2.2	2.2	1.1	0	1.1	0	0	0	0
327-348	2.2	2.2	5.5	0	1.1	0	0	0	0	0	0	0



Mangalore

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	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	1.4	2.9	1.4	1.4	1.4	1.4	0	0	0	0
57-78	0	0	2.9	7.2	4.3	4.3	5.8	1.4	0	0	0	0
79-101	0	1.4	2.9	4.3	5.8	2.9	7.2	0	1.4	0	0	0
102-123	0	0	1.4	1.4	8.7	4.3	7.2	0	2.9	0	0	0
124-146	0	0	1.4	1.4	1.4	1.4	0	0	0	0	0	0
147-168	0	0	0	1.4	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	1.4	0	1.4	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	1.4	1.4	0	0	0	0	0

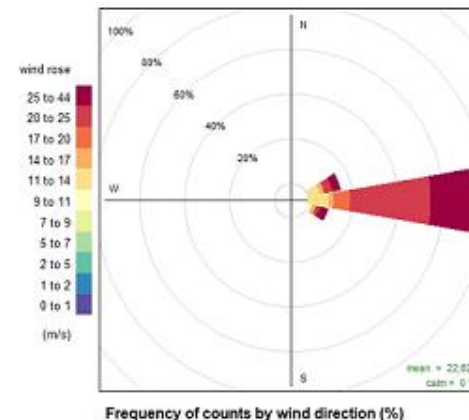


Mangalore

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
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	0	0	0	0	0	5.7	1.9	0	3.8	3.8
79-101	0	0	0	0	0	0	0	9.4	1.9	7.5	35.8	20.8
102-123	0	0	0	0	0	0	1.9	0	1.9	0	1.9	3.8
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

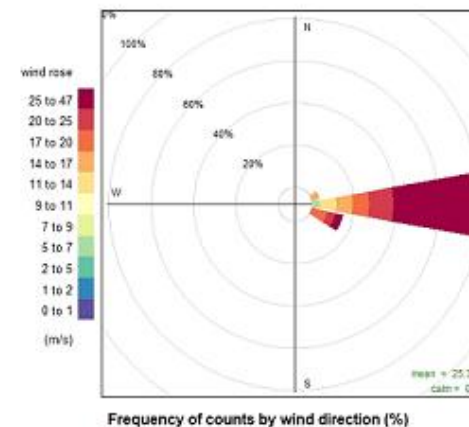


Mangalore

August

100 hPa level

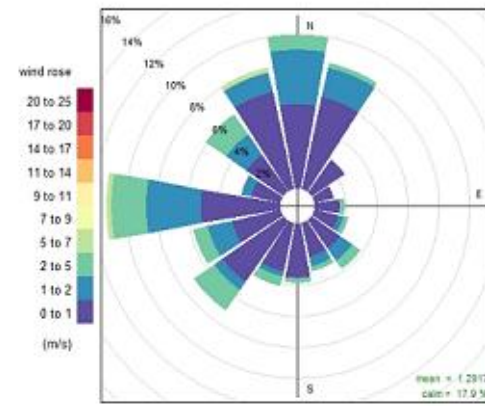
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	0	0	0	0	0	0	3.8	0	0	0
79-101	0	0	0	0	3.8	0	0	7.7	7.7	7.7	11.5	42.3
102-123	0	0	0	0	0	0	0	0	0	7.7	3.8	3.8
124-146	0	0	0	0	0	0	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



Mangalore

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	18	5.4	3.5	1	0	0	0	0	0	0	0	0
12-33		6.1	1.9	0.3	0	0	0	0	0	0	0	0
34-56		2.6	0	0	0	0	0	0	0	0	0	0
57-78		1.3	0	0	0	0	0	0	0	0	0	0
79-101		1.6	0	0.3	0	0	0	0	0	0	0	0
102-123		1.6	0.3	0.3	0	0	0	0	0	0	0	0
124-146		2.2	1	0.6	0	0	0	0	0	0	0	0
147-168		2.2	0.6	0.3	0	0	0	0	0	0	0	0
168-191		3.5	0	0.3	0	0	0	0	0	0	0	0
192-213		3.2	0.3	0.6	0	0	0	0	0	0	0	0
214-236		4.8	0.6	1.6	0	0	0	0	0	0	0	0
237-258		3.2	1.6	1	0	0	0	0	0	0	0	0
259-281		5.1	3.5	2.2	0.3	0	0	0	0	0	0	0
282-303		1.9	0.6	0	0	0	0	0	0	0	0	0
304-326		2.9	1.6	1.6	0	0	0	0	0	0	0	0
327-348		6.4	1.3	0	0.3	0	0	0	0	0	0	0

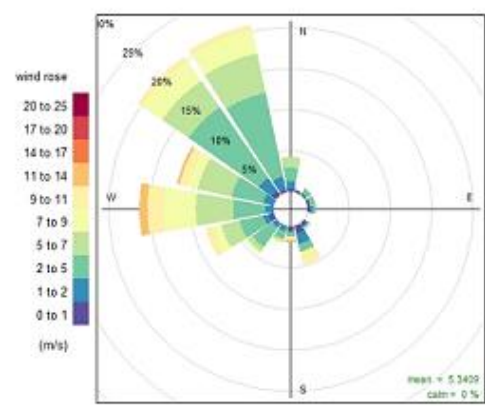


Frequency of counts by wind direction (%)

Mangalore

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	0	0.3	1	1.6	1.3	0	0	0	0	0	0	0
12-33		0.3	0	0	0	0	0	0	0	0	0	0
34-56		0	0.3	0.6	0	0	0	0	0	0	0	0
57-78		0.3	0	0.6	0	0	0	0	0	0	0	0
79-101		0.3	0.3	0.3	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0.3	0.3	0	0.3	0	0	0	0	0	0	0
147-168		1	1.3	1	0	0.3	1.3	0	0	0	0	0
168-191		0.6	0	0.6	0	0	0.3	0.3	0	0	0	0
192-213		0	0.6	1	0.3	0.3	0	0	0	0	0	0
214-236		0	0.6	2.9	0.6	0.3	0	0	0	0	0	0
237-258		0.6	0.6	2.9	2.3	1	1	0	0	0	0	0
259-281		0	1	3.9	4.5	3.9	1.9	1	0	0	0	0
282-303		0	1.3	3.9	4.2	1.3	1	0.3	0	0	0	0
304-326		0.6	1.9	10.4	3.9	2.9	0.6	0	0	0	0	0
327-348	0.3	1.6	10.4	4.9	2.9	0.6	0	0	0	0	0	

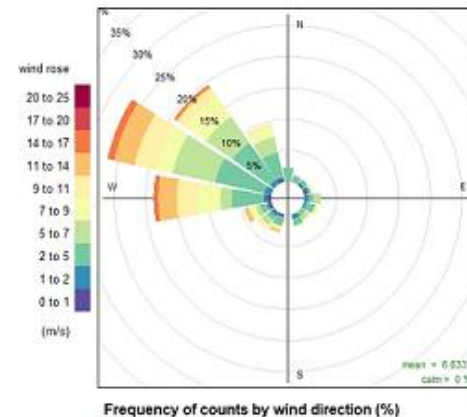


Frequency of counts by wind direction (%)

Mangalore

September 850 hPa level

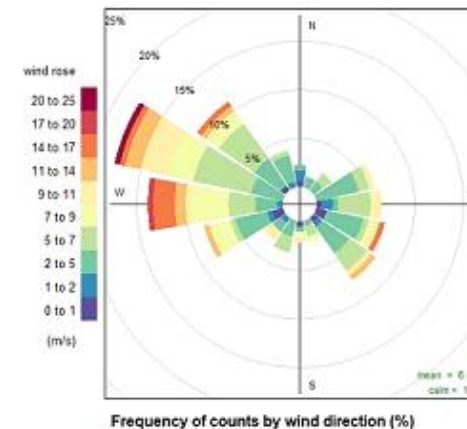
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	2.2	0	0	0	0	0	0	0	0	0
12-33	0	0	1.1	0	0	0	0	0	0	0	0	0
34-56	0.4	0	0.7	0	0	0	0	0	0	0	0	0
57-78	0.4	0.4	0.4	0	0.4	0	0	0	0	0	0	0
79-101	0	0.7	0.7	1.1	0	0	0	0	0	0	0	0
102-123	0	0.4	1.5	0	0.7	0	0	0	0	0	0	0
124-146	0	0	0.7	0.7	0	0.4	0	0	0	0	0	0
147-168	0	0.7	1.1	0	0	0	0	0	0	0	0	0
168-191	0	0	0	0	0.4	0	0	0	0	0	0	0
192-213	0.4	0	1.5	0	0.7	0	0.4	0	0	0	0	0
214-236	0	0.7	0.7	1.1	0.4	0.4	0	0	0	0	0	0
237-258	0.4	0.4	1.1	0.7	0.7	0.4	0.7	0	0	0	0	0
259-281	0.7	0.4	5.1	1.8	3.7	3.3	2.9	0.7	0	0	0	0
282-303	0	1.1	8.1	7	2.9	3.3	3.3	1.1	0	0	0	0
304-326	0	0.7	7.3	5.1	4	1.5	0.4	0.4	0	0	0	0
327-348	0.4	0.4	4	2.6	1.5	0.7	0	0	0	0	0	0



Mangalore

September 700 hPa level

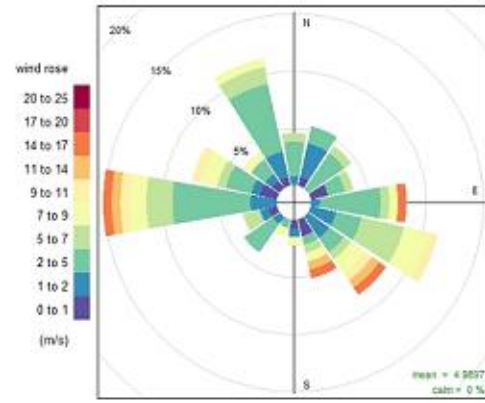
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0.6	1.1	0.6	0	0	0	0	0	0	0	0	0
12-33	0	0	1.1	0	0	0	0	0	0	0	0	0
34-56	0	0	1.1	1.1	0	0	0	0	0	0	0	0
57-78	0	0	4.4	1.1	0	0.6	0	0	0	0	0	0
79-101	0.6	1.1	0.6	3.3	0.6	0.6	0	0	0	0	0	0
102-123	1.1	0	3.9	0.6	0.6	0.6	0	0.6	0	0	0	0
124-146	0.6	0.6	3.3	2.2	0	0.6	0.6	0	0	0	0	0
147-168	0	0	0.6	1.1	0.6	0	0	0	0	0	0	0
168-191	0.6	0	0.6	0	0.6	0.6	0	0	0	0	0	0
192-213	0	0	1.7	1.7	0	0	0	0	0	0	0	0
214-236	0	0.6	1.1	0	0	1.1	0	0	0	0	0	0
237-258	1.1	0.6	3.3	0.6	2.2	0	0.6	0	0	0	0	0
259-281	0	0.6	2.2	2.8	3.9	0.6	1.1	2.2	0.6	0	0	0
282-303	0	0	3.3	6.1	2.8	2.8	1.7	0.6	0	0.6	0	0
304-326	0.6	0	3.3	4.4	1.1	0.6	0.6	0.6	0	0	0	0
327-348	0	0.6	2.8	0.6	0	0	0	0	0	0	0	0



Mangalore

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	0.8	3	0.8	0	0	0	0	0	0	0	0
12-33	0.8	3	1.5	0	0	0	0	0	0	0	0	0
34-56	0	0	3.8	0.8	0	0	0	0	0	0	0	0
57-78	1.5	0	1.5	0.8	0	0	0	0	0	0	0	0
79-101	0	0.8	5.3	0.8	0.8	0	0	0.8	0	0	0	0
102-123	0	2.3	2.3	3.8	2.3	0.8	0	0	0	0	0	0
124-146	0	2.3	1.5	0.8	1.5	0.8	0.8	0.8	0	0	0	0
147-168	1.5	0	0.8	0.8	0.8	0	0.8	0.8	0	0	0	0
168-191	0.8	0.8	0	0	0.8	0	0	0	0	0	0	0
192-213	0	0	0.8	0	0.8	0	0	0	0	0	0	0
214-236	0	0.8	3	0	0	0	0	0	0	0	0	0
237-258	0.8	0.8	0	1.5	0	0	0	0	0	0	0	0
259-281	0	2.3	6.8	2.3	1.5	0.8	0.8	0.8	0	0	0	0
282-303	1.5	0.8	2.3	0.8	1.5	0.8	0	0	0	0	0	0
304-326	0.8	0.8	1.5	0	0.8	0	0	0	0	0	0	0
327-348	0.8	2.3	6.1	1.5	0.8	0	0	0	0	0	0	0

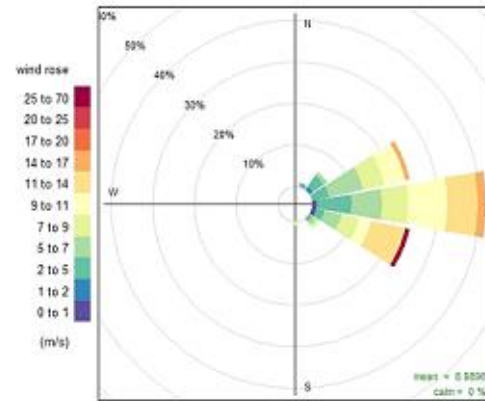


Frequency of counts by wind direction (%)

Mangalore

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	0	0	0	0	0	0	0	0	0	0
12-33	0	0	1	0	0	0	0	0	0	0	0	0
34-56	0	1	3.1	1	0	0	0	0	0	0	0	0
57-78	0	0	4.2	8.3	5.2	5.2	0	1	0	0	0	0
79-101	1	0	8.3	7.3	6.2	9.4	7.3	2.1	0	0	0	0
102-123	1	0	2.1	4.2	4.2	3.1	8.3	0	0	0	0	1
124-146	0	0	1	1	1	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	1	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

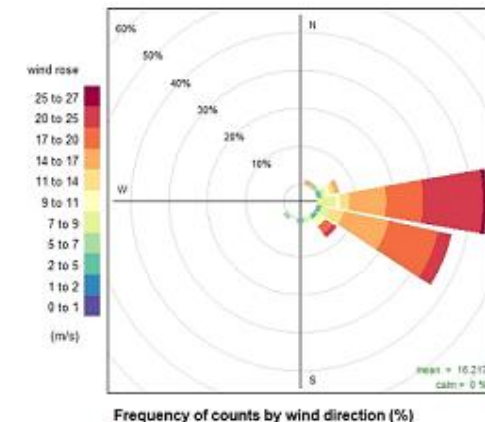


Frequency of counts by wind direction (%)

Mangalore

September 200 hPa level

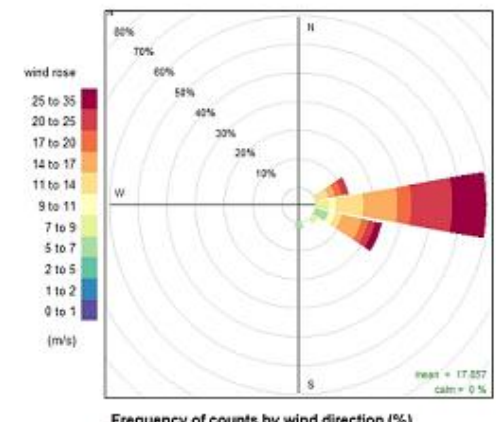
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	1.2	0	0	0
34-56	0	0	0	1.2	0	0	0	0	0	0	0	0
57-78	0	0	1.2	0	1.2	1.2	1.2	1.2	0	0	0	0
79-101	0	0	0	0	4.8	1.2	2.4	9.6	9.6	15.7	1.2	0
102-123	0	0	1.2	0	2.4	0	3.6	12	13.3	3.6	0	0
124-146	0	0	1.2	0	0	2.4	0	0	2.4	1.2	0	0
147-168	0	0	0	0	1.2	0	0	0	0	0	0	0
168-191	0	0	1.2	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	1.2	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



Mangalore

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	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	0	0	0	0	0	4.8	2.4	2.4	2.4	0
79-101	0	0	0	0	4.8	2.4	9.5	11.9	4.8	14.3	11.9	0
102-123	0	0	0	4.8	0	2.4	2.4	7.1	2.4	2.4	2.4	0
124-146	0	0	0	0	2.4	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	2.4	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

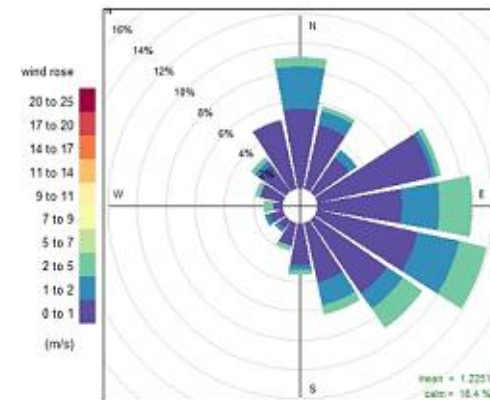


Mangalore

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	16	5.5	2.9	0.6	0	0	0	0	0	0	0	0
12-33		4.5	1	0.3	0	0	0	0	0	0	0	0
34-56		2.9	0.6	0	0	0	0	0	0	0	0	0
57-78		8	0.3	0.3	0	0	0	0	0	0	0	0
79-101		5.8	2.6	2.3	0	0	0	0	0	0	0	0
102-123		7.1	2.9	1.9	0	0	0	0	0	0	0	0
124-146		6.1	1.3	1.6	0	0	0	0	0	0	0	0
147-168		4.2	1.6	0.6	0	0	0	0	0	0	0	0
168-191		2.9	0.3	0.3	0	0	0	0	0	0	0	0
192-213		1.6	0	0.3	0	0	0	0	0	0	0	0
214-236		0.6	0.3	0	0	0	0	0	0	0	0	0
237-258		1	0.3	0	0	0	0	0	0	0	0	0
259-281		0.6	0	0.6	0	0	0	0	0	0	0	0
282-303		1.6	0	0.3	0	0	0	0	0	0	0	0
304-326		2.3	0.3	0.3	0	0	0	0	0	0	0	0
327-348		4.8	0	0	0	0	0	0	0	0	0	0



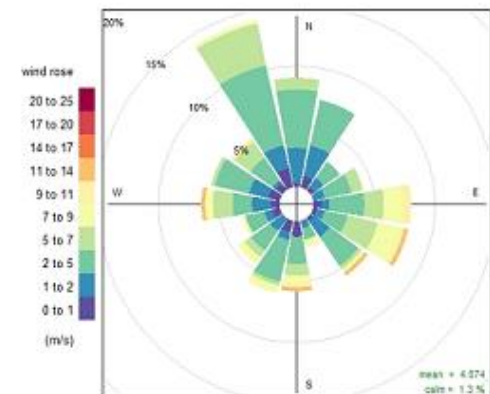
Frequency of counts by wind direction (%)

Mangalore

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	0	0.3	2.9	4.8	1	0	0	0	0	0	0	0
12-33		1	2.6	3.9	0	0	0	0	0	0	0	0
34-56		0.3	1	1.6	0	0	0	0	0	0	0	0
57-78		0	1	2.3	1	0	0	0	0	0	0	0
79-101		0.6	0.6	2.9	1.6	1.6	0.6	0	0	0	0	0
102-123		0.3	0.6	1.9	2.6	1.9	0.3	0.3	0	0	0	0
124-146		0.3	1.6	2.9	0.3	0.3	0	0.3	0	0	0	0
147-168		0	0.6	1	0	0.6	0	0	0	0	0	0
168-191		1.3	0	2.3	1	0.6	0.3	0.3	0	0	0	0
192-213		1	0.6	3.5	0.3	0.6	0	0	0	0	0	0
214-236		0	1.3	1.9	0.6	0.6	0	0	0	0	0	0
237-258		0.6	0.6	1.6	0	0.3	0	0	0	0	0	0
259-281		0.6	1.6	1.6	1.6	0.6	0	0.3	0	0	0	0
282-303		1	1.6	2.9	0.3	0	0	0	0	0	0	0
304-326		0.6	0.3	2.3	1.6	0	0.3	0	0	0	0	0
327-348		1.6	1.9	6.8	3.5	0.3	0	0	0	0	0	0



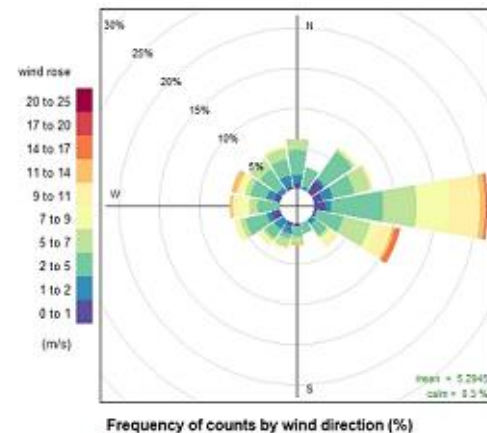
Frequency of counts by wind direction (%)

Mangalore

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	0.7	1	3.1	1.4	0	0	0	0	0	0	0
12-33		0	0.3	2.4	0	0	0	0	0	0	0	0
34-56		1.7	0.3	4.1	0.3	0.3	0	0	0	0	0	0
57-78		1	1.4	2.7	2.1	0	0.3	0	0	0	0	0
79-101		1.4	0.7	6.5	4.1	4.1	3.8	0.7	0.3	0	0	0
102-123		0.3	0	3.4	3.4	1	1.7	0.3	0.7	0	0	0
124-146		0	0.7	1.7	0.3	0.7	0.7	0	0	0	0	0
147-168		0	0	1.4	0	0	0	0	0	0	0	0
168-191		0.3	0	1.4	0.7	0	0	0.3	0	0	0	0
192-213		0.3	1	0.7	1	0.3	0	0	0	0	0	0
214-236		0	1.4	1.4	0.3	0.3	0.3	0	0	0	0	0
237-258		1	0.7	2.7	0.7	0.3	0.3	0	0	0	0	0
259-281		0	0	2.7	1	1.4	0.7	0.3	0	0	0	0
282-303		0.7	1	2.1	0.7	0.7	0.3	0.7	0	0	0	0
304-326		0	0.7	2.7	1.4	0	0	0	0	0	0	0
327-348		0.3	1.4	2.1	1.4	0.3	0	0	0	0	0	0

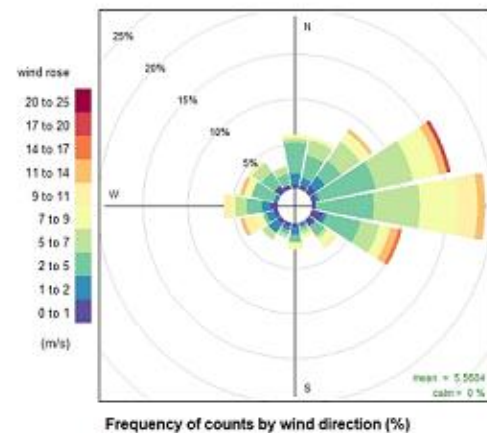


Mangalore

October

700 hPa level

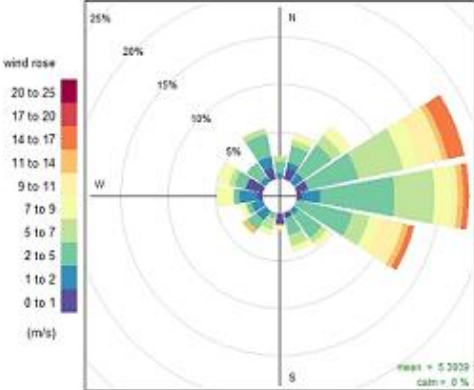
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	1.3	3.4	0.4	0.4	0	0	0	0	0	0
12-33		0.4	0.9	2.6	1.7	0.4	0	0	0	0	0	0
34-56		0.9	1.3	2.1	2.6	1.3	0	0.4	0	0	0	0
57-78		0.4	0.4	6.4	4.3	2.6	0.4	0.9	0	0.4	0	0
79-101		0.4	0	6.4	5.1	4.3	2.1	0.9	0	0	0	0
102-123		1.3	0.4	3.8	2.1	0.9	0.4	0.9	0.4	0	0	0
124-146		0.9	0	1.3	0.4	0.9	0.4	0	0	0	0	0
147-168		0	0.4	0.4	0.4	0.4	0	0	0	0	0	0
168-191		0.4	0.9	0.9	0	0.9	0	0	0	0	0	0
192-213		0.4	0.4	0.4	0.4	0	0	0	0	0	0	0
214-236		0.4	1.3	0	0.9	0	0	0	0	0	0	0
237-258		0.4	0.9	0.4	0	0.9	1.3	0.4	0	0	0	0
259-281		0.9	0.9	1.7	1.3	0.4	0.9	0	0	0	0	0
282-303		0	0.4	2.6	0	0.9	0	0.4	0	0	0	0
304-326		0.9	0	1.7	1.3	0	0.4	0	0	0	0	0
327-348		0.4	0	1.3	0.9	0	0	0	0	0	0	0



Mangalore

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	0.6	1.2	0.6	0	0	0	0	0	0	0	0
12-33	1.2	0.6	1.8	0.6	0.6	0	0	0	0	0	0	0
34-56	0	1.2	3.6	1.2	1.2	0	0	0	0	0	0	0
57-78	1.2	0	5.5	4.8	1.8	2.4	0.6	1.8	0	0	0	0
79-101	0.6	1.8	7.9	4.2	1.8	0.6	0.6	0.6	0	0	0	0
102-123	0	0	6.1	1.8	1.2	2.4	0.6	0.6	0	0	0	0
124-146	0	0.6	3	0.6	0.6	0	0	0	0	0	0	0
147-168	0.6	0	1.2	1.2	0.6	0	0	0	0	0	0	0
168-191	1.2	0	0.6	0	0	0.6	0	0	0	0	0	0
192-213	0	0	0.6	1.2	0.6	0	0	0	0	0	0	0
214-236	0	1.2	1.2	0	0	0	0.6	0	0	0	0	0
237-258	0	1.2	0.6	0	0.6	0	0	0	0	0	0	0
259-281	0.6	1.8	0.6	0	1.8	0	0	0	0	0	0	0
282-303	1.8	0	1.2	0.6	1.2	0	0	0	0	0	0	0
304-326	0	0.6	1.8	0	0	0	0	0	0	0	0	0
327-348	1.2	1.2	2.4	0.6	0	0	0	0	0	0	0	0

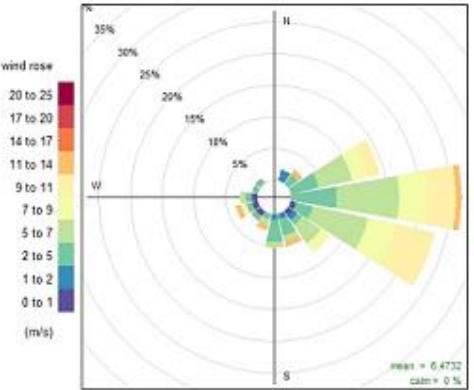


Frequency of counts by wind direction (%)

Mangalore

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	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	1.8	0	0	0	0	0	0	0	0	0	0
34-56	0	0	1.8	0	0	0	0.9	0	0	0	0	0
57-78	0	0	4.5	5.4	2.7	1.8	0	0	0	0	0	0
79-101	0	0	7.1	9.8	4.5	4.5	0.9	0	0	0	0	0
102-123	0.9	0	2.7	8.9	4.5	6.2	0	0	0	0	0	0
124-146	0.9	0.9	0.9	3.6	1.8	0	0	0	0	0	0	0
147-168	0	0.9	2.7	0.9	0	0	0.9	0	0	0	0	0
168-191	0	0.9	3.6	0.9	0	0	0	0	0	0	0	0
192-213	0	0	0.9	0.9	0	0	0.9	0	0	0	0	0
214-236	0.9	0	0.9	0	0	0	0	0	0	0	0	0
237-258	0.9	0	0.9	0	0.9	0	0.9	0	0	0	0	0
259-281	0.9	0	0.9	0.9	0	0	0	0	0	0	0	0
282-303	0	0	0.9	0	0	0	0	0	0	0	0	0
304-326	0	0	0.9	0	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0

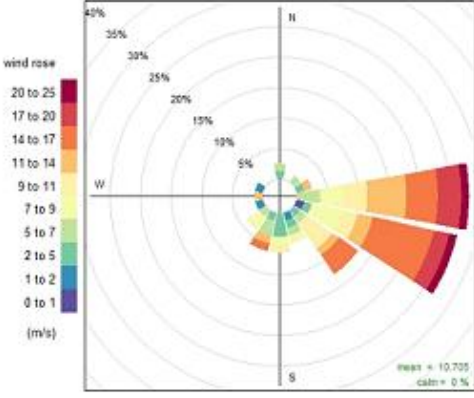


Frequency of counts by wind direction (%)

Mangalore

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	1.3	1.3	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	1.3	0	0	0	0	0	0	0	0
57-78	0	0	1.3	0	0	0	1.3	0	0	0	0	0
79-101	0	0	0	3.8	3.8	3.8	6.4	5.1	3.8	1.3	0	0
102-123	1.3	0	1.3	0	5.1	2.6	2.6	10.3	2.6	1.3	0	0
124-146	0	0	1.3	1.3	0	5.1	1.3	3.8	0	0	0	0
147-168	0	1.3	1.3	1.3	1.3	0	0	0	0	0	0	0
168-191	0	0	3.8	0	1.3	1.3	0	0	0	0	0	0
192-213	0	0	1.3	2.6	0	0	1.3	1.3	0	0	0	0
214-236	0	0	0	1.3	2.6	0	0	0	0	0	0	0
237-258	0	1.3	0	0	0	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	1.3	0	0	0	0	0
282-303	0	1.3	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

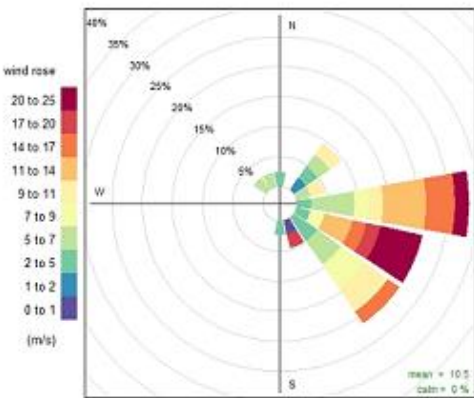


Frequency of counts by wind direction (%)

Mangalore

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	2.4	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	2.4	2.4	2.4	0	2.4	0	0	0	0	0	0
57-78	0	0	0	2.4	0	2.4	0	0	0	0	0	0
79-101	0	0	2.4	7.1	2.4	2.4	7.1	4.8	0	2.4	0	0
102-123	0	0	2.4	0	2.4	0	4.8	2.4	2.4	7.1	0	0
124-146	0	0	4.8	4.8	4.8	4.8	0	2.4	0	0	0	0
147-168	2.4	0	0	0	0	0	0	0	2.4	0	0	0
168-191	0	0	2.4	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	2.4	0	0	0	0	0	0	0	0
327-348	0	0	0	2.4	0	0	0	0	0	0	0	0

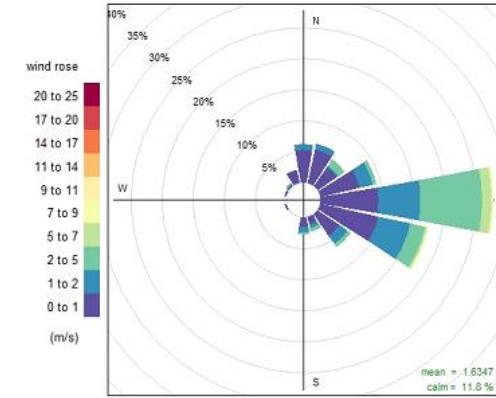


Frequency of counts by wind direction (%)

Mangalore

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	5.3	0.9	0	0	0	0	0	0	0	0	0
12-33		5.6	0.9	0	0	0	0	0	0	0	0	0
34-56		3.7	0.3	1.2	0	0	0	0	0	0	0	0
57-78		6.5	2.2	0.6	0	0	0	0	0	0	0	0
79-101		9.3	6.8	9.9	1.5	0.3	0	0	0	0	0	0
102-123		9.6	5.3	2.5	0.3	0.3	0	0	0	0	0	0
124-146		4.3	1.5	0.6	0	0	0	0	0	0	0	0
147-168		0.9	0.6	0.6	0	0	0	0	0	0	0	0
168-191		1.9	0.9	0.3	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		0.3	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		0.3	0	0	0	0	0	0	0	0	0	0
304-326		0.3	0	0.3	0	0	0	0	0	0	0	0
327-348		2.2	0	0	0	0	0	0	0	0	0	0

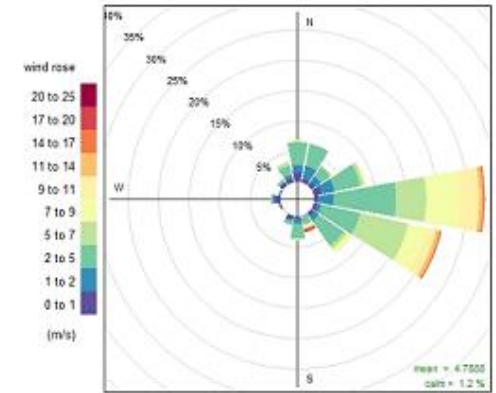


Frequency of counts by wind direction (%)

Mangalore

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	0	1.6	1.2	3.7	0	0.3	0	0	0	0	0	0
12-33		0.6	2.2	3.7	0	0	0	0	0	0	0	0
34-56		0.6	1.2	1.9	0.3	0	0	0	0	0	0	0
57-78		1.2	2.2	4.3	0.6	0.3	0	0	0	0	0	0
79-101		0.6	2.5	10.2	5	5.6	3.1	0.6	0.3	0	0	0
102-123		0.6	0.6	6.5	8.1	3.1	1.6	0.6	0.3	0	0	0
124-146		0.6	0.9	5	0.6	0.9	0	0	0	0	0	0
147-168		0	0	1.6	0	0.6	0	0	0.3	0.3	0	0
168-191		0.3	0.9	2.5	0	0.3	0	0	0	0	0	0
192-213		0.6	0.3	0.6	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0.3	0	0	0	0	0	0	0	0	0	0
259-281		0.9	0.3	0.3	0	0	0	0	0	0	0	0
282-303		0	0.3	0	0	0	0	0	0	0	0	0
304-326		0.6	0	0.6	0	0	0	0	0	0	0	0
327-348		0.6	0.6	1.6	0.6	0	0	0	0	0	0	0



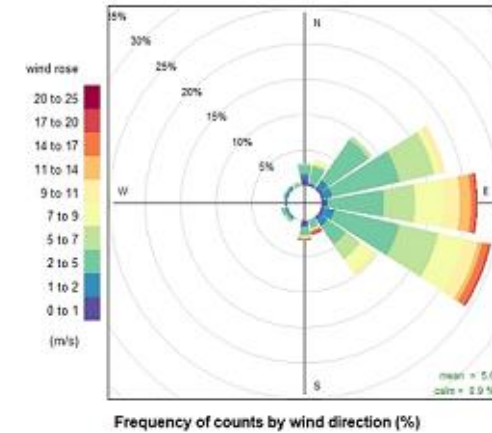
Frequency of counts by wind direction (%)

Mangalore

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		0.9	0.6	1.2	0.3	0	0	0	0	0	0	0
12-33		0.3	0	2.5	0.3	0.3	0.3	0	0	0	0	0
34-56		0.3	1.2	6.9	0.6	0	0	0	0	0	0	0
57-78		0.3	1.2	9.7	5	0.6	0.9	0	0	0	0	0
79-101		0.6	0.3	7.8	4.4	4.1	2.2	1.6	0.6	0.3	0	0
102-123		0.3	1.6	9.4	5.6	3.8	1.9	0.6	0.9	0.3	0	0
124-146		0.3	1.2	3.1	2.5	2.2	0.6	0	0	0	0	0
147-168	0	0	0	1.2	0	0.3	0	0	0.3	0.3	0	0
168-191	0	0.6	0.3	1.2	0	0	0.3	0	0.3	0	0	0
192-213	0	0	0	0	0	0	0	0	0	0	0	0
214-236	0	0	0.3	0.3	0.3	0	0	0	0	0	0	0
237-258	0	0	0.3	0.6	0	0	0	0	0	0	0	0
259-281	0	0	0.3	0	0	0	0	0	0	0	0	0
282-303	0	0	0.3	0.3	0	0	0	0	0	0	0	0
304-326	0	0	0.3	0.3	0	0	0	0	0	0	0	0
327-348	0	0	0	0.3	0.3	0	0	0	0	0	0	0

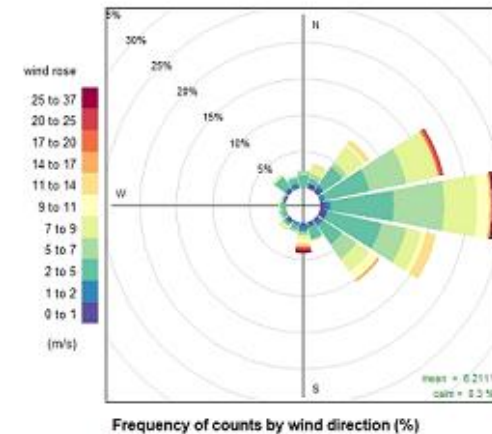


Mangalore

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		0	0	1.7	0.7	0	0	0	0	0	0	0
12-33		0.7	0	0.7	0.7	1	0	0.3	0	0	0	0
34-56		0.7	0.3	3.1	0.7	2.8	0.3	0.7	0	0	0	0
57-78		0	0.7	6.2	5.2	4.2	0	0.3	0	0.3	0.3	0
79-101		0.7	0.7	8.7	6.9	4.5	1.7	0	0.3	0	0	0.3
102-123		1	0	7.6	3.5	2.1	0.7	1.4	0	0	0	0
124-146		0.3	0.7	3.1	2.4	2.1	1.4	0	0.3	0	0	0
147-168	0	0.3	0.3	1.7	0	0.3	0	0	0	0	0	0
168-191	0	0.3	0.7	0.3	0.3	0.3	0.7	0.3	0.3	0	0.3	0.3
192-213	0	0	0.3	0.7	0.3	0	0	0	0	0	0	0
214-236	0	0.3	0.3	0.3	0	0.7	0	0	0	0	0	0
237-258	0	0	0	0.7	0.3	0	0	0	0	0	0	0
259-281	0	0	0	0.7	0	0.3	0	0	0	0	0	0
282-303	0	0.3	0	0	0.3	0	0	0	0	0	0	0
304-326	0	0.3	0.3	1.7	0	0.3	0	0	0	0	0	0
327-348	0	0	0.7	0.7	0.3	0	0	0	0	0	0	0

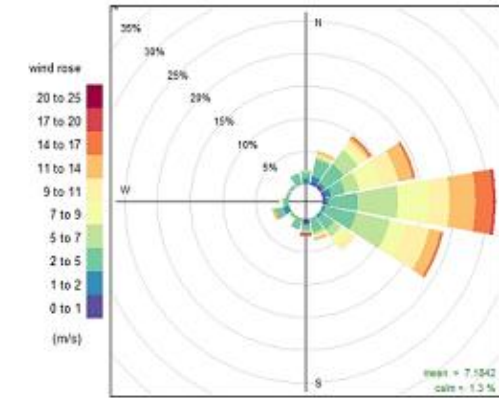


Mangalore

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	0	0.9	0.9	0.4	0	0	0	0	0	0	0	0
12-33	0.4	0.9	2.6	0.4	0	0.4	0.4	0	0	0	0	0
34-56	0.4	0.4	3.5	2.6	0.9	0.9	0.4	0.4	0	0	0	0
57-78	0.4	0.9	2.2	2.2	3.5	2.6	2.2	0.4	0	0	0	0
79-101	0.4	0.4	4.4	6.1	4.8	3.1	3.9	2.6	0.4	0	0	0
102-123	0	0.4	4.8	5.3	2.6	3.5	1.8	0.4	0	0	0	0
124-146	0	0.4	2.2	1.3	1.3	1.3	0	0	0	0	0	0
147-168	0	0	2.2	0.4	0.4	0	0.4	0	0	0	0	0
168-191	0.9	0	0.9	0.4	0	0	0	0	0.4	0	0	0
192-213	0	0	1.8	0	0	0	0	0	0	0	0	0
214-236	0	0	0.4	0	0.4	0	0	0	0	0	0	0
237-258	0	0.9	1.3	0	0	0	0.4	0	0	0	0	0
259-281	0	0	0.9	0	0.4	0	0	0	0	0	0	0
282-303	0	0	0.4	0	0	0	0	0	0	0	0	0
304-326	0	0	0.4	0	0	0	0	0	0	0	0	0
327-348	0	0	1.8	0	0	0	0	0	0	0	0	0

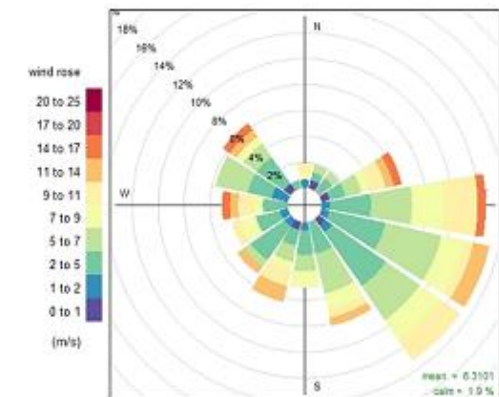


Mangalore

November

300 hPa level

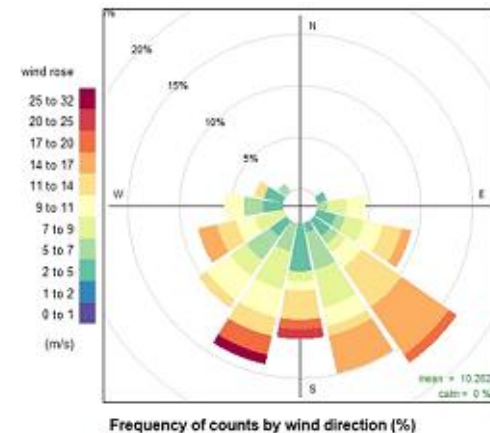
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	0	0	0.6	0.6	0	0	0	0	0	0
12-33	0.6	0	0.6	0.6	0	0	0	0	0	0	0	0
34-56	0	0	1.3	0.6	0	0	0	0	0	0	0	0
57-78	0.6	0	1.3	1.3	0.6	1.3	0.6	0.6	0	0	0	0
79-101	0	0.6	3.2	3.2	2.5	2.5	0	0.6	0	0	0	0
102-123	0	0.6	4.4	4.4	1.9	0.6	1.3	0	0	0	0	0
124-146	0.6	0.6	5.1	3.2	1.9	1.9	0	0	0	0	0	0
147-168	0	0	2.5	3.2	1.3	0.6	0.6	0	0	0	0	0
168-191	0	0.6	1.9	1.3	1.3	0	0	0	0	0	0	0
192-213	0.6	0	1.3	1.3	0.6	1.3	1.3	0	0	0	0	0
214-236	0	0.6	3.2	0.6	0	0	0.6	0	0	0	0	0
237-258	0	0.6	1.9	0	1.3	0.6	0	0	0	0	0	0
259-281	0	0	1.9	0	0.6	1.3	0.6	0.6	0	0	0	0
282-303	0	1.3	1.9	2.5	0	0	0	0	0	0	0	0
304-326	0.6	0	2.5	1.3	0.6	0	0.6	0.6	0	0	0	0
327-348	0	0	0.6	0	0	0	0	0	0	0	0	0



Mangalore

November 200 hPa level

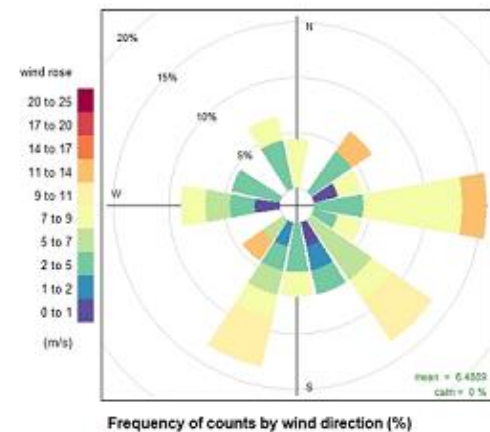
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	0.9	0	0	0	0	0	0	0	0	0
79-101	0	0	0	0.9	1.9	1.9	0	0	0	0	0	0
102-123	0	0	1.9	0.9	1.9	1.9	1.9	0.9	0	0	0	0
124-146	0	0	1.9	0.9	0.9	1.9	4.7	5.6	0.9	0	0	0
147-168	0	0	0.9	3.7	3.7	0.9	0.9	3.7	0	0	0	0
168-191	0	0	4.7	0	0.9	1.9	2.8	0	0.9	0.9	0	0
192-213	0	0	0	2.8	3.7	2.8	1.9	0	1.9	0	0.9	0
214-236	0	0	1.9	2.8	1.9	2.8	0.9	0	0	0	0	0
237-258	0	0	0	0	2.8	1.9	1.9	1.9	0	0	0	0
259-281	0	0	1.9	1.9	0	1.9	0	0	0	0	0	0
282-303	0	0	1.9	0	0	0	0.9	0	0	0	0	0
304-326	0	0	0	0.9	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0



Mangalore

November 100 hPa level

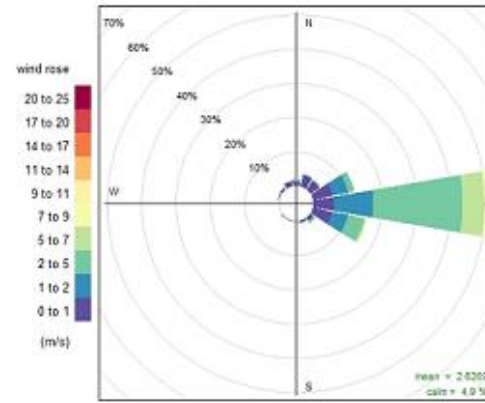
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	4.4	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	4.4	0	0	0	2.2	0	0	0	0	0
57-78	2.2	0	0	0	2.2	0	0	0	0	0	0	0
79-101	0	0	4.4	0	8.9	0	2.2	0	0	0	0	0
102-123	0	0	2.2	0	2.2	0	0	0	0	0	0	0
124-146	0	0	0	6.7	2.2	4.4	0	0	0	0	0	0
147-168	2.2	2.2	2.2	0	0	0	0	0	0	0	0	0
168-191	0	0	4.4	0	2.2	0	0	0	0	0	0	0
192-213	0	2.2	2.2	2.2	2.2	4.4	0	0	0	0	0	0
214-236	0	0	0	2.2	0	0	2.2	0	0	0	0	0
237-258	0	0	0	0	0	0	0	0	0	0	0	0
259-281	2.2	0	2.2	2.2	2.2	0	0	0	0	0	0	0
282-303	0	0	4.4	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	4.4	0	2.2	0	0	0	0	0	0	0



Mangalore

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	5	1.2	0.3	0.6	0	0	0	0	0	0	0	0
12-33		3.4	0.3	0	0	0	0	0	0	0	0	0
34-56		3.1	0	0.3	0.3	0	0	0	0	0	0	0
57-78		5.8	4.6	1.8	0	0	0	0	0	0	0	0
79-101		6.1	11.3	26	6.4	0.9	0	0	0	0	0	0
102-123		5.8	4.6	4.9	0.6	0.3	0	0	0	0	0	0
124-146		1.2	0	0.6	0.3	0	0	0	0	0	0	0
147-168		0.6	0	0.3	0	0	0	0	0	0	0	0
168-191		0	0.3	0	0	0	0	0	0	0	0	0
192-213		0.3	0	0	0	0	0	0	0	0	0	0
214-236		0.3	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	0.3	0	0	0	0	0	0	0	0	0
304-326		0.6	0	0	0	0	0	0	0	0	0	0
327-348		1.5	0	0	0	0	0	0	0	0	0	0

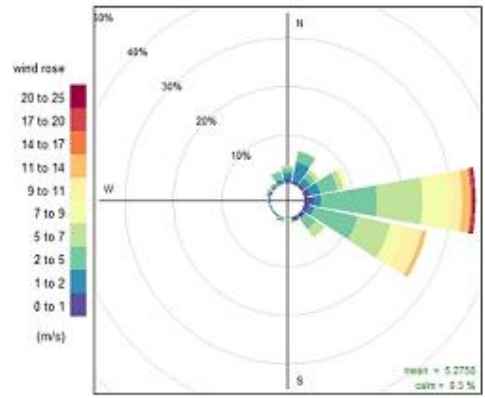


Frequency of counts by wind direction (%)

Mangalore

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	0	0.9	1.2	0.9	0.6	0	0	0	0	0	0	0
12-33		0.6	3.9	2.1	0.3	0	0	0	0	0	0	0
34-56		0.6	1.5	1.2	0.9	0.3	0	0	0	0	0	0
57-78		1.2	2.1	3.6	1.2	0.9	0	0	0	0	0	0
79-101		1.8	1.5	11.5	9.4	5.8	2.4	1.8	0	0.6	0.3	0
102-123		0.9	1.2	9.1	7	3	3.6	0.9	0	0	0	0
124-146		0.9	0	2.7	2.1	0.3	0	0	0	0	0	0
147-168		0.6	0.3	0	0.3	0.3	0	0	0	0	0	0
168-191		0	0.3	0	0.3	0	0	0	0	0	0	0
192-213		0	0	0.9	0	0	0	0	0	0	0	0
214-236		0.3	0	0	0	0	0	0	0	0	0	0
237-258		0	0.3	0	0	0	0	0	0	0	0	0
259-281		0	0.3	0	0	0	0	0	0	0	0	0
282-303		0.3	0	0.6	0	0	0	0	0	0	0	0
304-326		0.3	0	0.6	0	0	0	0	0	0	0	0
327-348		0	0.9	1.5	0.3	0	0	0	0	0	0	0

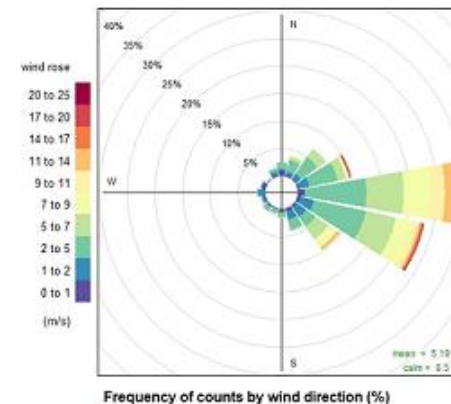


Frequency of counts by wind direction (%)

Mangalore

December 850 hPa level

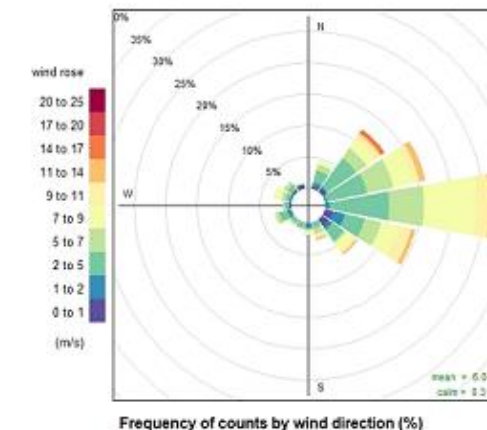
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.9	0.3	1.2	0	0	0	0	0	0	0	0
12-33	0	0.3	0.6	2.2	0.6	0.3	0	0	0	0	0	0
34-56	0	0	1.2	3.7	1.9	0	0	0	0	0	0	0
57-78	0	0.3	1.9	5.2	1.5	0.3	0.3	0	0	0.3	0	0
79-101	0	1.2	0	11.1	6.8	4.9	2.5	1.9	0.6	0.3	0	0
102-123	0	0.6	2.5	9.6	5.6	3.4	0.9	0.3	0.3	0.3	0	0
124-146	0	0.3	2.2	2.2	2.8	1.5	0.3	0.6	0	0	0	0
147-168	0	0.6	1.5	1.9	0.3	0	0	0	0	0	0	0
168-191	0	0.6	0	0.9	0.3	0	0	0	0	0	0	0
192-213	0	0	0.3	0.6	0.3	0	0	0	0	0	0	0
214-236	0	0.3	0	0.9	0	0	0	0	0	0	0	0
237-258	0	0.3	0.3	0.3	0	0	0	0	0	0	0	0
259-281	0	0	1.2	0.3	0	0	0	0	0	0	0	0
282-303	0	0.6	0.3	0	0	0	0	0	0	0	0	0
304-326	0	0	0	0.3	0	0	0	0	0	0	0	0
327-348	0	0.3	0.6	0.6	0	0	0	0	0	0	0	0



Mangalore

December 700 hPa level

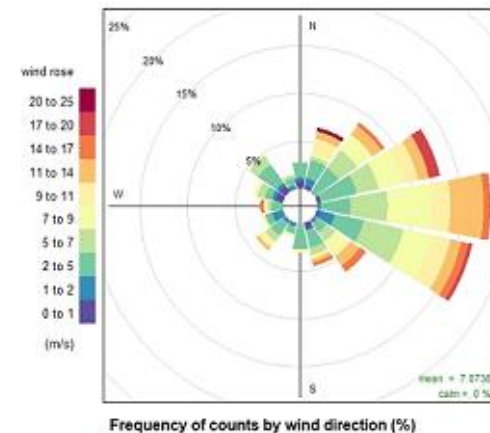
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.3	0	0	0	0	0	0	0	0
12-33	0	0.3	0.7	2	1	0.7	0	0	0	0	0	0
34-56	0	0.7	0.3	5.6	2	1.6	1	0.3	0.7	0	0	0
57-78	0	0	0.3	6.5	4.2	3.3	1	1	0	0	0	0
79-101	0	0	0.7	9.5	5.6	8.5	2	1	0.3	0	0	0
102-123	0	1.3	2	3.3	2.6	2.9	2	0.7	0	0	0	0
124-146	0	1.3	0.7	2.3	0.3	1.3	0.7	0.3	0	0	0	0
147-168	0	0	0	1	1	0.3	0.3	0.3	0	0	0	0
168-191	0	0	1	0	0.3	0.3	0.3	0	0	0	0	0
192-213	0	0	0	1	0	0	0	0	0	0	0	0
214-236	0	0	0	0.7	0.3	0	0.3	0	0	0	0	0
237-258	0	0	0.7	1.3	0.7	0.3	0	0	0	0	0	0
259-281	0	0.3	0	0.7	0.3	0	0	0	0	0	0	0
282-303	0	0	0.3	0.7	0.7	1.3	0	0	0	0	0	0
304-326	0	0.3	0	1	0.7	0	0	0	0	0	0	0
327-348	0	0.7	0	0	0.3	0	0	0	0	0	0	0



Mangalore

December 500 hPa level

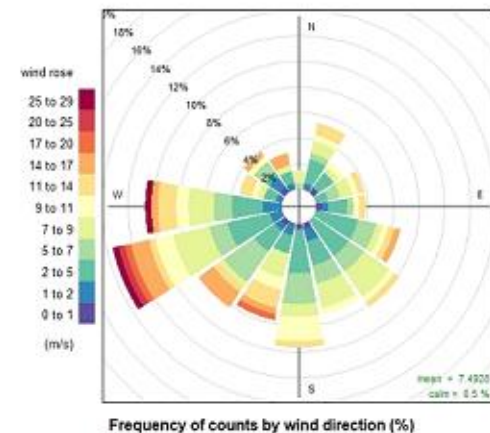
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.8	0.4	1.6	0	0	0	0	0	0	0	0
12-33		0.4	0.8	1.9	0.4	0.4	1.6	0.8	0	0	0.4	0
34-56		0	0	3.1	2.3	1.9	0	1.2	0.4	0	0	0
57-78		0.4	0	3.9	2.3	2.7	1.6	1.2	0	1.2	0	0
79-101		0	0.4	3.1	3.9	4.7	1.9	3.5	0.8	0	0	0
102-123		0.4	1.6	3.1	4.3	3.1	1.9	1.2	0.8	0.4	0	0
124-146		0	0.4	1.2	1.2	1.6	0.4	1.2	0.8	0	0	0
147-168		0.8	0	1.9	0.8	0.4	0	0.4	0.4	0	0	0
168-191		0	0	2.7	0	0.4	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	1.6	0.8	0.4	0.4	0.4	0	0	0	0
237-258		0	1.2	0.8	0	0.4	0	0	0	0	0	0
259-281		0	0	1.2	0.4	0.4	0	0	0.4	0	0	0
282-303		0.8	0.4	0.8	0.8	0.4	0	0	0	0	0	0
304-326		0.8	0.4	2.3	1.2	0	0	0	0	0	0	0
327-348		0	0.4	0.8	0.4	0	0	0	0	0	0	0



Mangalore

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	0	0	0.5	1	0	0	0	0	0	0
12-33		0	0.5	1.9	0.5	1	0.5	1	0	0	0	0
34-56		0.5	0	1.4	0	0.5	0.5	0	0	0	0	0
57-78		0	0	1	1	1	0.5	0.5	0	0	0	0
79-101		0.5	0.5	1.4	0.5	0	0.5	0.5	0	0	0	0
102-123		0	0	3.4	1.4	0.5	0.5	0.5	0.5	0	0	0
124-146		0	0	3.4	1.4	2.4	0.5	0.5	0	0	0	0
147-168		0.5	0.5	1.9	1.4	1.9	0.5	0	0	0	0	0
168-191		0.5	0.5	3.4	2.4	1	1.9	0.5	0	0	0	0
192-213		0	1	1.4	0	1.9	1	1.4	0.5	0.5	0	0
214-236		0.5	0.5	1.9	2.9	0.5	0	0.5	1.4	0	0	0
237-258		0	1	3.4	1.4	2.9	1.4	0.5	1.4	0.5	0.5	0.5
259-281		0	1.4	2.4	1.4	1.9	1	1.4	0.5	0	0	0.5
282-303		0	0.5	1	0	0.5	0.5	1	0	0	0	0
304-326		0.5	1	0.5	1	0	0.5	0	0.5	0	0	0
327-348		0	0.5	1	0	0.5	0	0	1	0	0	0

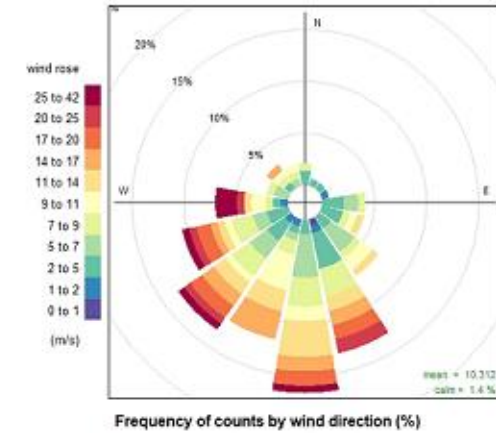


Mangalore

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		2.1	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	2.1	0	0	0	0	0	0
34-56		2.1	4.2	2.1	0	4.2	2.1	2.1	0	0	0	0
57-78		0	0	2.1	4.2	2.1	2.1	0	0	0	0	0
79-101		0	2.1	2.1	0	2.1	6.2	0	2.1	0	0	0
102-123		0	2.1	6.2	2.1	4.2	0	0	0	2.1	0	0
124-146		0	2.1	0	4.2	0	0	0	0	0	0	0
147-168	0	0	0	4.2	0	0	0	0	0	0	0	0
168-191		0	2.1	0	2.1	0	0	0	0	0	0	0
192-213		0	0	0	4.2	0	0	0	0	0	0	0
214-236		0	0	2.1	2.1	0	0	2.1	0	0	0	0
237-258		0	0	2.1	0	0	2.1	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	2.1	2.1	0	0	0	0	0	0	0	0
304-326		0	0	2.1	0	0	0	0	0	0	0	0
327-348		0	0	2.1	0	0	0	0	0	0	0	0

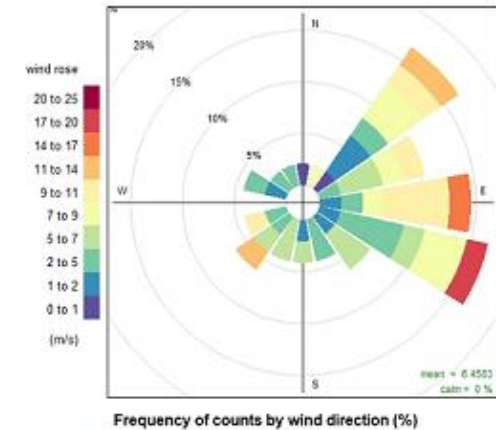


Mangalore

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		2.1	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	2.1	0	0	0	0	0	0
34-56		2.1	4.2	2.1	0	4.2	2.1	2.1	0	0	0	0
57-78		0	0	2.1	4.2	2.1	2.1	0	0	0	0	0
79-101		0	2.1	2.1	0	2.1	6.2	0	2.1	0	0	0
102-123		0	2.1	6.2	2.1	4.2	0	0	0	2.1	0	0
124-146		0	2.1	0	4.2	0	0	0	0	0	0	0
147-168	0	0	0	4.2	0	0	0	0	0	0	0	0
168-191		0	2.1	0	2.1	0	0	0	0	0	0	0
192-213		0	0	0	4.2	0	0	0	0	0	0	0
214-236		0	0	2.1	2.1	0	0	2.1	0	0	0	0
237-258		0	0	2.1	0	0	2.1	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	2.1	2.1	0	0	0	0	0	0	0	0
304-326		0	0	2.1	0	0	0	0	0	0	0	0
327-348		0	0	2.1	0	0	0	0	0	0	0	0



[Mangalore](#)

43285

Station height 80

January

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1008.1	1013	1003	22.3	26.2	18.2	20	67	1.3	-1.2	-0.5	1.7
1000	103	187	32	22.7	29.4	18.4	19.8	60	2.2	-1.9	-1.1	3.4
950	549	604	495	22.6	31.2	15.4	15.9	58	2.5	-2.1	-1.3	4.7
925	785	833	751	21.4	27	9.8	13.6	71	2.1	-2	-0.7	4.6
900	1020	1067	963	20.1	28.6	13.4	11.2	82	2.2	-2.2	-0.3	4.7
850	1511	1557	1454	17	24.4	8.4	7.7	99	2.6	-2.6	0.4	4.5
800	2025	2085	1971	13.9	24	6.2	3.1	103	2.6	-2.5	0.6	4.6
750	2565	2640	2501	11.5	22	3	-2	96	2	-2	0.2	4.8
700	3141	3228	3070	9.2	17.8	0.2	-7.6	79	1.5	-1.5	-0.3	5.2
650	3751	3851	3660	6.2	15.2	-4.1	-10.9	61	1.3	-1.1	-0.6	5.8
600	4402	4514	4304	2.6	12.2	-4.5	-14.5	45	0.8	-0.6	-0.6	6
550	5100	5224	4987	-1.4	9	-9.9	-18.4	360	0.8	0	-0.8	6.2
500	5853	5990	5728	-6.1	5.2	-16.5	-22.8	326	1.1	0.6	-0.9	6.8
450	6668	6829	6527	-11.1	-0.5	-20.3	-26.8	299	2.1	1.8	-1	7.9
400	7564	7762	7404	-16.9	-0.5	-28.3	-32.9	292	3.2	3	-1.2	8.9
350	8552	8818	8370	-23.9	-5.9	-33.5	-39	276	5.1	5.1	-0.5	10.2
300	9647	10012	9448	-32.1	-11.3	-42.7	-47.2	262	6.9	6.8	0.9	11
250	10921	11389	10663	-42.4	-18.9	-56.4	-56.9	252	8	7.6	2.4	11.9
200	12388	12755	12077	-54.6	-36.3	-64.3	-66.2	247	7.8	7.2	3.1	12.8
175	13230	13627	12883	-61.5	-38.3	-70.5	-70	251	7.5	7.1	2.4	12.4
150	14171	14597	13781	-68.5	-55.5	-80.1		251	5.8	5.5	1.9	10.9
125	15243	15703	14802	-75.1	-63.1	-87.3		257	3.9	3.8	0.9	9.8
100	16524	17666	16077	-79.6	-59.9	-89.9		274	1.4	1.4	-0.1	7.5
80	17790	19027	17225	-78.3	-53.5	-90.4		72	0.3	-0.3	-0.1	5.1
70	18562	19814	17972	-74.7	-56.1	-89.1		45	0.1	-0.1	-0.1	4.4
60	19417	20047	18838	-69.7	-52.7	-83.9		360	0.1	0	-0.1	4.6
50	20562	21187	19897	-64.7	-49.3	-75.9		82	0.7	-0.7	-0.1	5.1
40	21939	22611	21368	-59.9	-47.1	-72.3		104	1.6	-1.6	0.4	5.5
30	23737	24489	23124	-55.8	-43.1	-67.1		102	1.9	-1.9	0.4	5.5
25	24897	25701	24250	-54	-37.7	-66.1		90	2.2	-2.2	0	5.6
20	26321	27191	25782	-52.2	-42.3	-60.7		92	2.3	-2.3	0.1	5.7
15	28191	28744	27618	-49.9	-41.3	-59.1		98	1.4	-1.4	0.2	3.7
10	30829	30892	30734	-51.7	-49.5	-54.1		86	3.1	-3.1	-0.2	9.2
7	33188	33188	33188	-52.3	-52.3	-52.3		69	8	-7.5	-2.9	8

FREEZING LEVEL

P	Height	H_max	H_min
568	4852	6211	3170

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16707	-81.9

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Station height 80

February

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1007.7	1013	1001	23.2	27.2	18.6	21	32	0.9	-0.5	-0.8	1.3
1000	99	180	14	23.5	32.4	18.4	20.8	20	2	-0.7	-1.9	2.8
950	546	634	487	23	30.2	16.4	17	16	2.5	-0.7	-2.4	4.1
925	784	867	749	22.2	28.6	15.5	14.4	27	2	-0.9	-1.8	4.1
900	1018	1106	959	21	28.8	12	11	32	1.9	-1	-1.6	4.3
850	1510	1601	1450	18.3	26.6	10.9	7.7	74	1.8	-1.7	-0.5	4.6
800	2027	2119	1963	14.9	25.6	8.5	4.5	94	2.8	-2.8	0.2	5
750	2568	2661	2505	11.4	21	4.6	0.1	94	2.8	-2.8	0.2	5.2
700	3143	3243	3072	8.7	16.6	0.4	-6.2	79	2	-2	-0.4	5.4
650	3752	3868	3676	5.9	13.2	-4.1	-12.3	45	1.4	-1	-1	6
600	4403	4519	4314	2.6	9.8	-6.3	-16.3	9	1.3	-0.2	-1.3	6.4
550	5101	5220	5002	-1.3	6.6	-8.8	-20.1	348	1.4	0.3	-1.4	6.8
500	5854	5981	5738	-5.9	1	-13.3	-24.7	331	1.8	0.9	-1.6	7.2
450	6669	6807	6508	-11.1	-1.1	-19.3	-29.7	306	2.4	1.9	-1.4	8.2
400	7565	7722	7426	-16.9	-7.1	-25.7	-35.6	296	3.7	3.3	-1.6	9.5
350	8551	8974	6628	-23.8	-14.1	-32.5	-42.3	283	5.5	5.4	-1.2	10.8
300	9662	9876	9486	-32.1	-21.1	-40.3	-49.7	270	7.1	7.1	0	12.1
250	10919	11179	10000	-42.3	-32.5	-51.1	-58.8	261	8	7.9	1.3	12.3
200	12390	12760	12123	-54.3	-36.7	-66.1	-69.4	259	7.7	7.6	1.5	12.5
175	13232	13641	12934	-61.2	-49.1	-74.9		256	7.2	7	1.7	12.3
150	14172	14620	13820	-68.2	-56.5	-82.7		255	6.1	5.9	1.6	11.2
125	15245	15727	14815	-74.9	-65.1	-90.3		255	3.9	3.8	1	9.6
100	16522	17033	16006	-79.8	-69.7	-90.1		281	1	1	-0.2	7.5
80	17783	18323	17243	-78.6	-60.7	-89.5		72	0.6	-0.6	-0.2	6
70	18552	19104	18074	-75.1	-56.9	-86.5		323	0.5	0.3	-0.4	5.3
60	19425	20041	18935	-70.8	-51.9	-83.5		299	1	0.9	-0.5	5
50	20546	21173	19995	-65.8	-50.7	-80.1		276	0.9	0.9	-0.1	5.2
40	21913	22577	21338	-61.3	-49.5	-78.5		117	0.4	-0.4	0.2	5.5
30	23720	24430	23084	-56.9	-45.1	-74.1		105	1.1	-1.1	0.3	6.6
25	24873	25552	24175	-54.9	-42.1	-67.9		79	1	-1	-0.2	6.9
20	26343	27024	25822	-52.1	-44.1	-62.9		326	0.7	0.4	-0.6	6
15	28201	28781	27828	-49.4	-42.9	-59.9		282	3.8	3.7	-0.8	8.1
10	30742	30742	30742	-49.5	-49.5	-49.5						
7	33089	33089	33089	-44.9	-44.9	-44.9						

FREEZING LEVEL

P	Height	H_max	H_min
568	4857	6110	3150

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
97	16743	-82.1

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Station height 80

March

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1006.7	1012	1002	24.9	32.2	21.2	22.8	18	0.6	-0.2	-0.6	0.8
1000	92	179	46	25	30	19.7	22.8	11	1.5	-0.3	-1.5	2.2
950	540	634	493	23.8	31.2	15.8	19.5	360	1.8	0	-1.8	3.2
925	778	870	703	22.8	29	17.6	17.2	360	1.3	0	-1.3	3.2
900	1014	1111	964	22.1	28.8	14.4	13.2	360	1.4	0	-1.4	3.9
850	1509	1608	1454	20	27.8	6.4	8.7	39	1.4	-0.9	-1.1	4.6
800	2028	2128	1966	16.8	25.4	2.3	5.7	75	2.7	-2.6	-0.7	5.2
750	2573	2673	2483	12.8	21.2	-4.4	2.8	82	4.1	-4.1	-0.6	6.1
700	3149	3248	3016	8.6	17.2	-13.4	-1.7	78	4.5	-4.4	-0.9	6.5
650	3758	3859	3576	5.3	15.2	-16.4	-7.9	74	3.7	-3.6	-1	6.5
600	4408	4525	4174	2.3	10.8	-19.6	-13.5	67	2.3	-2.1	-0.9	6.3
550	5105	5236	4811	-1.5	6.2	-25.9	-18.8	48	1.3	-1	-0.9	6.4
500	5858	6007	5745	-6	1.8	-15.3	-23.9	18	0.9	-0.3	-0.9	6.9
450	6674	6840	6532	-11.2	-3.1	-21.7	-28.5	321	1.4	0.9	-1.1	7.5
400	7569	7758	7244	-16.9	-7.9	-28.7	-34.2	295	3.1	2.8	-1.3	8.7
350	8558	8765	8327	-23.8	-15.3	-36.3	-40.5	277	5	5	-0.6	10
300	9666	9907	9378	-32.1	-23.7	-46.1	-47.5	266	7	7	0.5	11.6
250	10927	11199	10667	-42.2	-32.5	-60.9	-57.5	262	8.3	8.2	1.2	12.6
200	12396	12716	11932	-54.1	-44.5	-70.7	-68.2	262	8.4	8.3	1.2	13.3
175	13240	13584	12716	-60.8	-52.1	-77.9	-67.5	263	8.4	8.3	1	12.9
150	14182	14553	13582	-67.7	-58.1	-84.1		265	7	7	0.6	11.7
125	15261	15662	14606	-74.6	-61.1	-90.7		271	4.7	4.7	-0.1	9.8
100	16539	16979	15921	-80	-65.5	-89.7		286	1.8	1.7	-0.5	7.9
80	17803	18269	17238	-78.7	-60.7	-88.7		90	0.3	-0.3	0	5.6
70	18576	19066	18030	-75	-56.1	-88.1		288	0.3	0.3	-0.1	5.4
60	19480	19962	18952	-70.4	-48.5	-85.3		288	1.3	1.2	-0.4	5.6
50	20579	21080	20071	-65	-51.1	-74.5		266	1.5	1.5	0.1	5.8
40	21955	22491	21403	-59.6	-45.9	-69.9		214	0.4	0.2	0.3	6.3
30	23762	24369	23180	-54.9	-40.9	-65.5		93	2	-2	0.1	7.2
25	24922	25569	24338	-52.5	-41.5	-64		92	3.4	-3.4	0.1	8
20	26391	26939	25780	-49.4	-40.9	-62.2		103	2.7	-2.6	0.6	7.7
15	28220	28809	27749	-47.9	-41.7	-57.5		74	1.5	-1.4	-0.4	6.3
10	30925	31543	30520	-46.4	-40.9	-51.1		264	4.7	4.7	0.5	9.5
7	33199	33199	33199	-45.5	-45.5	-45.5						

FREEZING LEVEL

P	Height	H_max	H_min
571	4821	6290	3500

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
96	16788	-82.2

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Station height 80

April

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1005.5	1010	1001	26.2	29.6	21.8	23.4	14	0.4	-0.1	-0.4	0.8
1000	81	199	14	26.3	32.6	21.2	23.6	360	1	0	-1	1.9
950	531	602	450	24.4	32	13.6	21.2	340	1.5	0.5	-1.4	3.1
925	770	818	722	23.1	31.6	11.6	19.6	336	1	0.4	-0.9	3
900	1006	1082	955	22.1	30.2	10.6	16.7	330	1.4	0.7	-1.2	3.5
850	1501	1576	1441	20.7	29	10.2	11.7	356	1.5	0.1	-1.5	3.9
800	2023	2097	1951	18.1	29	8.6	8.5	41	2.1	-1.4	-1.6	4.4
750	2571	2646	2451	14.4	23.6	4.8	5.5	68	3.8	-3.5	-1.4	5.4
700	3151	3233	3065	10	20.8	-0.3	1.8	71	5.3	-5	-1.7	6.5
650	3761	3857	3660	5.7	16.2	-4.5	-3	71	5.4	-5.1	-1.8	6.8
600	4412	4529	4294	2	11.8	-6.1	-9.3	72	4.1	-3.9	-1.3	6.1
550	5109	5240	4974	-1.5	11.4	-9.1	-14.9	71	2.4	-2.3	-0.8	5.4
500	5862	6013	5702	-5.7	3.4	-15.9	-19.7	58	1.3	-1.1	-0.7	5.5
450	6680	6861	6491	-10.5	7.8	-18.5	-24.9	14	0.8	-0.2	-0.8	6.2
400	7577	7754	7359	-16.3	-8.5	-28.9	-30.3	304	1.4	1.2	-0.8	7.1
350	8569	8780	8316	-23.1	-13.1	-33.5	-36.8	280	2.8	2.8	-0.5	8.3
300	9680	9897	9385	-31.3	-13.3	-42.3	-44.4	268	5	5	0.2	9.5
250	10945	11223	10602	-41.3	-21.3	-51.9	-54.5	257	6.7	6.5	1.5	10.4
200	12422	12816	12035	-53.3	-36.5	-65.9	-64.9	251	7.1	6.7	2.3	10.7
175	13269	13721	12864	-60	-43.3	-72.5	-63.6	249	6.8	6.4	2.4	10.1
150	14214	14773	13765	-67.2	-48.1	-80.7	-65.9	252	5.8	5.5	1.8	9.2
125	15297	15923	14782	-74.2	-54.3	-89.9		252	3.6	3.4	1.1	7.8
100	16578	17318	15983	-79.6	-61.3	-89.5		127	0.5	-0.4	0.3	6.4
80	17846	18689	17201	-78	-50.5	-92.3		90	2.1	-2.1	0	5.4
70	18620	19501	17962	-74.2	-47.9	-87.3		98	1.5	-1.5	0.2	5.1
60	19450	20073	18848	-68.8	-44.5	-83.9		131	0.9	-0.7	0.6	5
50	20630	21423	19919	-63	-41.5	-79.7		144	0.9	-0.5	0.7	5.9
40	22017	22617	21286	-57.8	-35.5	-76.5		99	1.9	-1.9	0.3	6.1
30	23839	24535	23067	-53	-38.7	-65.1		94	4.5	-4.5	0.3	7.4
25	25022	25787	24416	-50.6	-34.9	-62.9		92	5.1	-5.1	0.2	8.1
20	26458	26991	25816	-48	-39.3	-61.5		91	5.1	-5.1	0.1	8.3
15	28355	28939	27879	-45.7	-35.7	-54.9		104	1.2	-1.2	0.3	4.3
10	31049	31565	30600	-44.5	-40.7	-49.5						
7	33246	33521	32971	-45.6	-45.1	-46.1						

FREEZING LEVEL

P	Height	H_max	H_min
573	4795	6320	3050

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
96	16823	-81.7

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Station height 80

May

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1004.4	1009	996	26.6	30.4	22.4	23.9	338	0.5	0.2	-0.5	1.2
1000	72	124	1	26.5	32	21.4	23.9	337	1.3	0.5	-1.2	2.4
950	522	578	450	24.7	32	17.4	21.8	321	2.2	1.4	-1.7	4.1
925	761	804	684	23	30.8	16	20.4	303	1.7	1.4	-0.9	4.4
900	996	1040	921	21.9	33.2	14.6	18.6	307	2.5	2	-1.5	4.8
850	1491	1546	1407	19.8	30	11.4	13.9	306	2.2	1.8	-1.3	4.9
800	2013	2106	1918	17.9	26.2	8.8	9.4	342	1.3	0.4	-1.2	4.9
750	2560	2690	2460	14.8	22.6	5.2	6.1	49	2	-1.5	-1.3	5.3
700	3142	3232	3040	10.9	18.6	4.4	2.4	68	3.5	-3.2	-1.3	6.2
650	3754	3852	3646	6.6	15.4	0	-1.4	69	4.3	-4	-1.5	6.7
600	4407	4530	4294	2.4	9.6	-4.1	-6.1	71	4.2	-4	-1.4	6.6
550	5105	5240	4987	-1.4	6	-7.9	-10.8	74	3.5	-3.4	-1	6.2
500	5859	6010	5730	-5.2	2	-12.1	-15.8	73	2.7	-2.6	-0.8	6
450	6678	6847	6534	-9.7	7.6	-17.1	-20.8	70	2.3	-2.2	-0.8	6.2
400	7580	7780	7420	-15.2	-5.7	-28.2	-26.1	57	1.7	-1.4	-0.9	6.2
350	8576	8789	8392	-21.9	-11.9	-42.5	-32.2	54	0.9	-0.7	-0.5	6.1
300	9693	9925	9409	-30.1	-18.8	-57.9	-40.3	90	0.1	-0.1	0	5.9
250	10964	11228	10675	-40.2	-30.7	-48.9	-50.6	198	0.9	0.3	0.9	6.2
200	12446	12757	12121	-52.5	-40.2	-63.3	-63.6	168	1.9	-0.4	1.9	7.3
175	13296	13634	12946	-59.7	-47.5	-73.9	-65.3	154	2.5	-1.1	2.3	7.9
150	14242	14614	13864	-67.3	-54.7	-81.3	-72.9	136	3.7	-2.6	2.7	8.6
125	15324	15756	14910	-74.7	-58.5	-86.1		118	5.5	-4.9	2.6	9.1
100	16600	17115	16151	-80.3	-68.9	-92.1		102	7.9	-7.7	1.7	9.8
80	17869	18428	17369	-77.8	-61.1	-90.3		97	7	-6.9	0.9	8.1
70	18646	19227	18106	-73.5	-57.1	-85.3		100	5.6	-5.5	1	7.1
60	19483	20066	19089	-67.6	-51.7	-79.1		98	4.2	-4.2	0.6	6.3
50	20666	21313	20085	-62.3	-49.1	-73.9		97	5.1	-5.1	0.6	7.3
40	22058	22737	21444	-57.8	-43.2	-69.9		93	6.5	-6.5	0.3	7.9
30	23893	24615	23225	-53.5	-42.5	-64.1		95	7.6	-7.6	0.7	9
25	25075	25827	24370	-50.8	-37.6	-60.9		92	8.8	-8.8	0.3	10.1
20	26532	27310	25777	-48.1	-35	-61.5		86	7.8	-7.8	-0.5	9.1
15	28384	29155	27645	-46.7	-38.3	-60.1		95	4.6	-4.6	0.4	5.1
10	31107	31554	30492	-43.4	-37.1	-52.9		135	0.6	-0.4	0.4	0.6
7	33545	33954	33015	-40.7	-35.3	-47.1						

FREEZING LEVEL

P	Height	H_max	H_min
570	4838	6370	2409

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
97	16814	-82.4

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Station height 80

June

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1003.7	1009	997	25.2	30	22	23.7	249	1.4	1.3	0.5	2.6
1000	66	111	28	25.1	30.3	17.8	23.7	250	2	1.9	0.7	3.5
950	513	583	442	23.3	30.6	16.8	21.4	259	4.3	4.2	0.8	6
925	751	794	696	22.1	29.4	15	20.3	259	4.3	4.2	0.8	6.1
900	986	1033	886	20.6	28.4	13.2	18.6	268	6.2	6.2	0.2	7.9
850	1479	1530	1375	17.8	25.6	8.8	15.4	273	6.7	6.7	-0.4	8.4
800	1996	2051	1922	15.1	23	7.6	11.8	275	6.8	6.8	-0.6	8.5
750	2539	2603	2451	12.5	20.4	4	8.1	276	6.1	6.1	-0.6	8.1
700	3117	3198	3012	9.6	17	-0.5	3.9	275	5.2	5.2	-0.5	7.7
650	3729	3825	3606	6.3	13	-6.3	-0.1	275	4.4	4.4	-0.4	7.3
600	4382	4487	4206	2.8	9.2	-7.7	-3.8	275	3.5	3.5	-0.3	6.6
550	5082	5199	4899	-0.8	6.6	-11.5	-7.3	268	3	3	0.1	5.8
500	5839	5981	5648	-4.8	2.4	-15.5	-12.1	265	2.2	2.2	0.2	5
450	6660	6824	6444	-9.4	-1.1	-22.1	-16.8	253	1.4	1.3	0.4	4.7
400	7564	7721	7357	-14.8	-5.9	-31.1	-22.6	180	0.4	0	0.4	4.1
350	8562	8740	8315	-21.5	-10.9	-39.5	-29.5	102	1.4	-1.4	0.3	4.3
300	9682	9891	9347	-29.7	-20.1	-49.5	-38.2	93	3.4	-3.4	0.2	5.1
250	10957	11197	10696	-39.9	-31.1	-54.3	-48.5	90	6	-6	0	7.2
200	12442	12738	12146	-52.4	-41.9	-66.3	-59.8	93	10	-10	0.5	10.9
175	13295	13620	12970	-59.5	-48.1	-71.5	-63.2	93	13.1	-13.1	0.6	14
150	14241	14603	13877	-67.4	-55.3	-79.9	-73.9	94	15.6	-15.6	1	16.4
125	15317	15722	14912	-75.5	-63.5	-89.3		96	18.5	-18.4	2	19.2
100	16595	17046	16199	-79.8	-65.1	-90.1		98	17.1	-16.9	2.4	17.5
80	17870	18355	17437	-75.5	-54.3	-90.1		97	11.6	-11.5	1.5	12.1
70	18653	19155	18194	-70.8	-47.7	-85.3		96	8.1	-8	0.9	8.5
60	19331	20113	19065	-66.5	-49.1	-79.1		93	6.7	-6.7	0.3	7.2
50	20685	21220	20138	-62.6	-45.1	-74.7		94	6.5	-6.5	0.5	7.1
40	22086	22620	21454	-58.3	-44.1	-70.9		91	6.5	-6.5	0.1	6.8
30	23893	24498	23189	-54.5	-42.5	-68.9		97	6.4	-6.3	0.8	6.8
25	25060	25714	24302	-52.6	-42.1	-65.7		98	6.8	-6.7	0.9	7.1
20	26485	27015	25896	-51.3	-42.3	-64.3		99	4	-4	0.6	4.1
15	28372	28695	27660	-48.9	-42.1	-62.7		93	2.2	-2.2	0.1	2.3
10	31084	31358	30674	-44	-40.1	-47.5						
7	33440	33778	33194	-43.9	-39.7	-48.1						

FREEZING LEVEL

P	Height	H_max	H_min
562	4924	6280	2990

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16552	-82.1

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Station height 80

July

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1004.5	1008	999	24.7	28	22	23.6	267	1.9	1.9	0.1	2.7
1000	71	106	32	24.8	30.6	20.6	23.5	266	2.7	2.7	0.2	3.7
950	519	561	470	23.1	30	17.6	21.2	269	5.1	5.1	0.1	6.7
925	754	796	714	21.5	28.6	16	19.8	261	5	4.9	0.8	7.1
900	991	1050	924	20.2	27.2	14.4	18.3	276	6.7	6.7	-0.7	8.6
850	1483	1544	1426	17.4	25.2	7.8	15.2	281	7.2	7.1	-1.4	9.1
800	1999	2069	1934	14.6	23.8	6	12	285	7.2	6.9	-1.9	8.4
750	2541	2628	2468	12	21.6	6	8.3	286	6.6	6.4	-1.8	7.7
700	3118	3218	3038	9.2	20	3.2	3.8	287	5.8	5.5	-1.7	7
650	3729	3847	3641	6.1	14.8	-3.3	0	286	4.7	4.5	-1.3	5.8
600	4382	4516	4286	2.7	12.2	-3.1	-3.4	285	3.5	3.4	-0.9	4.8
550	5081	5233	4974	-0.8	7.8	-7.5	-7	281	2.6	2.6	-0.5	4.3
500	5838	6007	5726	-4.8	2.8	-12.1	-11.7	276	1.9	1.9	-0.2	3.8
450	6659	6848	6535	-9.4	-0.3	-17.9	-16.5	270	0.8	0.8	0	3.4
400	7563	7769	7428	-14.9	-5.9	-26.1	-22.2	90	0.6	-0.6	0	3.2
350	8560	8784	8389	-21.7	-11.7	-33.1	-29.2	90	2.1	-2.1	0	3.6
300	9680	9925	9462	-29.9	-18.7	-40.7	-37.7	90	4	-4	0	4.9
250	10952	11242	10682	-40.2	-27.7	-50.9	-48.3	95	6.6	-6.6	0.6	7.2
200	12435	12806	12112	-52.6	-39.1	-67.9	-60.1	95	10.6	-10.6	1	11
175	13288	13692	12933	-59.4	-45.5	-71.5	-64.1	94	13.7	-13.7	0.9	14.1
150	14235	14680	13840	-67.2	-53.3	-80.1	-66.7	93	15.7	-15.7	0.9	16
125	15316	15793	14913	-74.8	-62.5	-88.5		95	17.4	-17.3	1.4	17.6
100	16597	17086	16120	-77.7	-62.7	-90.1		99	14.9	-14.7	2.2	15.2
80	17893	18402	17415	-71.8	-59.5	-86.5		98	9.7	-9.6	1.3	9.9
70	18686	19214	18194	-68.1	-53.7	-85.1		96	7.5	-7.5	0.8	7.8
60	19393	20196	19128	-64.6	-49.7	-81.1		93	6.1	-6.1	0.3	6.3
50	20736	21360	20202	-60.9	-47.5	-71.9		96	5	-5	0.5	5.2
40	22127	22692	21554	-57.7	-45.5	-70.5		92	3.8	-3.8	0.1	3.9
30	23949	24596	23324	-54	-42.3	-64.7		96	2.9	-2.9	0.3	3.1
25	25107	25735	24472	-52.5	-41.5	-62.5		97	2.6	-2.6	0.3	2.7
20	26535	27256	25906	-50.9	-39.3	-58.5		94	1.4	-1.4	0.1	1.5
15	28382	28843	27878	-49.3	-40.7	-57.1						
10	31021	31220	30771	-47.2	-41.5	-53.1						
7	33345	33565	33086	-45.5	-41.1	-50.1						

FREEZING LEVEL

P	Height	H_max	H_min
562	4916	6480	3910

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
105	16330	-80.3

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Station height 80

August

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1005.3	1010	1000	24.5	29	22.2	23.3	277	1.6	1.6	-0.2	2.2
1000	78	117	37	24.4	29.8	19.8	23.2	279	2.4	2.4	-0.4	3.4
950	525	595	430	22.6	28	16.6	20.8	282	4.8	4.7	-1	6.7
925	761	798	716	21.1	25.2	15	19.3	273	4.4	4.4	-0.2	7.3
900	996	1037	946	19.8	25.4	12.2	17.9	286	6.4	6.1	-1.8	8.8
850	1487	1532	1430	17.1	24	10.2	15.1	288	7.1	6.7	-2.2	9.3
800	2003	2066	1940	14.5	23	7	12	290	7.2	6.8	-2.5	8.9
750	2545	2632	2432	11.9	20.4	3.4	8.3	290	6.9	6.5	-2.4	8.4
700	3122	3187	3044	9.1	16.8	0.2	4	290	6.6	6.2	-2.2	7.9
650	3732	3806	3647	6.1	14.4	-0.7	-0.1	290	5.2	4.9	-1.8	6.2
600	4385	4480	4128	2.6	10.8	-3.9	-3.9	290	4.1	3.9	-1.4	5.3
550	5083	5194	4821	-1	6.2	-9.1	-7.8	288	3.2	3	-1	4.5
500	5840	5972	5576	-4.9	2	-10.1	-12.5	287	2.1	2	-0.6	3.9
450	6660	6814	6388	-9.6	-1.3	-15.3	-17.6	302	0.9	0.8	-0.5	3.5
400	7563	7740	7431	-15.1	-7.1	-21.3	-23.1	67	0.8	-0.7	-0.3	3.4
350	8559	8761	8407	-21.9	-12.1	-29.3	-30.2	85	2.2	-2.2	-0.2	3.8
300	9678	9922	9498	-30.3	-20.9	-37.9	-38.9	96	4.1	-4.1	0.4	5.2
250	10947	11255	10706	-40.6	-29.5	-50.3	-49.3	96	7.2	-7.2	0.7	7.9
200	12427	12756	12164	-52.9	-41.9	-70.1	-62	95	11.5	-11.5	1	12.1
175	13276	13615	12974	-59.8	-48.1	-77.7	-65.4	94	14.1	-14.1	1	14.4
150	14226	14612	13859	-67.3	-54.1	-85.5	-66.5	93	16.3	-16.3	0.9	16.6
125	15314	15757	14887	-74.7	-62.1	-89.6	-70.3	93	17.6	-17.6	1	17.9
100	16603	17106	16167	-76.5	-61.2	-89.9		96	14.3	-14.2	1.6	14.6
80	17910	18429	17470	-70.5	-55.7	-83.9		95	8.4	-8.4	0.7	8.7
70	18707	19242	18300	-67.4	-52.5	-83.2		97	7.5	-7.4	0.9	7.6
60	19321	20198	19175	-64.2	-52.5	-80.4		93	6.6	-6.6	0.4	6.9
50	20765	21378	20298	-60.9	-46.3	-71.7		90	5.9	-5.9	0	6
40	22152	22748	21689	-57.9	-43.1	-68.7		95	5.5	-5.5	0.5	5.8
30	23982	24618	23508	-54.6	-43.3	-67.5		91	4.3	-4.3	0.1	4.4
25	25146	25803	24673	-53.1	-41.1	-65.5		98	3	-3	0.4	3.1
20	26585	27283	26080	-51.2	-37.1	-63.7		95	3.5	-3.5	0.3	3.6
15	28467	29203	27991	-49	-39.9	-61.5		96	0.9	-0.9	0.1	0.9
10	31082	31328	30644	-46.8	-40.1	-53.5						
7	32990	32990	32990	-47.7	-47.7	-47.7						

FREEZING LEVEL

P	Height	H_max	H_min
563	4902	6370	3590

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
108	16187	-79.6

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Station height 80

September

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1005.8	1011	999	24.4	28	22.2	23.3	304	0.4	0.3	-0.2	1.1
1000	82	144	35	24.3	28.1	17.6	23.1	315	0.8	0.6	-0.6	2.4
950	529	588	450	22.7	29.8	15.1	20.8	301	2.3	2	-1.2	4.6
925	765	817	725	21.3	27.8	11.8	19.2	285	2.4	2.3	-0.6	5
900	1000	1051	944	20	27	11	17.8	297	3.4	3	-1.5	5.8
850	1492	1545	1436	17.5	24.2	10.3	14.6	293	3.6	3.3	-1.4	6.1
800	2008	2073	1940	14.9	21.4	9.2	11	291	3.3	3.1	-1.2	6
750	2551	2631	2474	12.2	20.4	5.8	7	290	2.9	2.7	-1	5.8
700	3128	3219	3025	9.3	17	2	2.6	288	2.5	2.4	-0.8	5.4
650	3739	3845	3622	6.1	13.4	1.2	-1.5	281	2.1	2.1	-0.4	4.8
600	4392	4511	4270	2.8	10	-2.9	-5.4	277	1.7	1.7	-0.2	4.4
550	5091	5224	4971	-0.8	7	-7.9	-9.2	281	1	1	-0.2	3.9
500	5847	5990	5721	-5	2	-12.1	-13.7	297	0.2	0.2	-0.1	3.6
450	6667	6818	6544	-9.8	9	-18.1	-18.9	76	0.8	-0.8	-0.2	3.6
400	7568	7731	7438	-15.4	-6.5	-25.3	-24.5	90	1.8	-1.8	0	3.8
350	8563	8750	8387	-22.2	-11.3	-33.9	-31.3	93	3.3	-3.3	0.2	4.5
300	9680	9895	9502	-30.6	-21.7	-43.7	-39.4	97	5.2	-5.2	0.6	6.1
250	10948	11210	10757	-41	-30.9	-49.1	-49.6	100	7.7	-7.6	1.4	8.4
200	12424	12752	12189	-53.6	-41.9	-68.4	-63.1	98	11.2	-11.1	1.6	12.1
175	13270	13631	12994	-60.8	-47.1	-74.1	-67.2	98	13.9	-13.8	1.9	14.7
150	14213	14603	13878	-68.4	-56.9	-83.9		97	16.3	-16.2	2.1	17
125	15297	15715	14889	-75.4	-63.7	-87.1		99	17.1	-16.9	2.8	17.7
100	16583	17050	16103	-77.2	-66.7	-89.3		101	14.2	-14	2.6	14.6
80	17877	18402	17360	-72.6	-55.9	-84.7		99	8.6	-8.5	1.4	9.1
70	18667	19221	18141	-68.8	-56	-83.3		95	7.3	-7.3	0.6	7.8
60	19418	20196	19065	-65.2	-54.1	-76.3		92	6.9	-6.9	0.3	7.4
50	20726	21360	20137	-61.8	-49.1	-76.1		91	7	-7	0.1	7.4
40	22125	22823	21441	-58.1	-45.1	-69.7		96	6.3	-6.3	0.7	6.6
30	23964	24737	23330	-54.1	-42.5	-64.5		95	5.8	-5.8	0.5	6
25	25113	25948	24476	-52.2	-39.9	-67.9		96	5.4	-5.4	0.6	5.6
20	26571	27450	25993	-50.5	-41.9	-64.5		94	6.3	-6.3	0.4	6.5
15	28471	29410	27814	-48.9	-38.9	-62.3		98	6.7	-6.6	0.9	6.7
10	31208	31467	30979	-46.1	-43.5	-52.5		118	3.8	-3.4	1.8	3.8
7	33476	33624	33329	-45.7	-43.9	-47.5						

FREEZING LEVEL

P	Height	H_max	H_min
562	4936	6260	3800

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
108	16157	-79.8

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Station height 80

October

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1006.1	1012	1000	24.4	28.6	21.6	23.2	90	0.2	-0.2	0	1
1000	85	149	35	24.4	28.4	20.6	22.9	63	0.4	-0.4	-0.2	2.2
950	533	599	480	23.3	29.2	17.2	20.4	360	0.2	0	-0.2	3.7
925	770	833	719	22.1	26.7	15.8	18.8	207	0.2	0.1	0.2	4.1
900	1006	1071	947	20.8	26.4	14.6	16.9	14	0.4	-0.1	-0.4	4.5
850	1499	1575	1432	18.1	25.2	11.4	13.6	54	0.9	-0.7	-0.5	5.2
800	2016	2075	1940	15.2	23.4	8	10.3	67	1.5	-1.4	-0.6	5.6
750	2559	2622	2473	12	18.8	5.2	6.8	71	1.8	-1.7	-0.6	5.5
700	3135	3200	3041	8.9	15.2	2.3	2.7	70	1.5	-1.4	-0.5	5.3
650	3745	3871	3642	5.9	14.2	-1.1	-1.3	66	1	-0.9	-0.4	4.9
600	4397	4483	4282	2.6	10.6	-4.1	-5.2	72	0.6	-0.6	-0.2	4.7
550	5096	5196	4970	-1	6.6	-6.3	-9.1	77	0.9	-0.9	-0.2	4.5
500	5852	5962	5715	-5.1	1.2	-12.1	-13.6	77	1.3	-1.3	-0.3	4.4
450	6672	6797	6526	-9.9	-2.1	-16.3	-18.8	77	1.7	-1.7	-0.4	4.4
400	7572	7722	7250	-15.5	-8.3	-22.3	-24.7	84	1.9	-1.9	-0.2	4.5
350	8566	8737	8218	-22.4	-13.7	-30.1	-31.6	87	2	-2	-0.1	4.7
300	9682	9882	9497	-30.8	-22.9	-39.1	-39.9	103	2.6	-2.5	0.6	5.2
250	10949	11180	10702	-41.3	-32.1	-51.1	-50.6	112	3.7	-3.4	1.4	6.2
200	12421	12696	12121	-54	-44.3	-65.1	-63.7	118	5.4	-4.8	2.5	8.2
175	13267	13578	12950	-61.2	-50.6	-72.1	-66.3	118	6.9	-6.1	3.2	9.6
150	14207	14555	13880	-68.9	-55.5	-83		116	8.3	-7.5	3.6	10.8
125	15285	15665	14904	-75.7	-57.3	-89.1		112	9.1	-8.4	3.4	11.1
100	16559	16980	16149	-78.8	-54.9	-91.9		104	7.4	-7.2	1.8	8.8
80	17842	18273	17359	-74	-57.7	-89.9		96	5.5	-5.5	0.6	6.7
70	18633	19088	18084	-70.2	-52.8	-83.9		96	4.9	-4.9	0.5	5.9
60	19558	19966	18959	-66.3	-53.3	-79.1		94	5.2	-5.2	0.4	6.2
50	20672	21102	20101	-62.4	-48.9	-77.7		90	5.8	-5.8	0	6.8
40	22064	22541	21434	-58.9	-45.9	-72.3		90	6.6	-6.6	0	7.1
30	23873	24449	23188	-55	-41.5	-69.1		95	6.8	-6.8	0.6	7.4
25	25044	25664	24490	-52.9	-43.5	-66.6		96	7.2	-7.2	0.7	7.8
20	26479	26990	25873	-51	-40.1	-64.8		95	7.2	-7.2	0.6	8
15	28357	28921	27830	-48.5	-37.2	-56.3		99	6.2	-6.1	1	6.5
10	31126	31616	30778	-46.1	-40.5	-50.9		288	0.6	0.6	-0.2	0.6
7												

FREEZING LEVEL

P	Height	H_max	H_min
564	4903	6110	3447

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
105	16330	-81.1

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Station height 80

November

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1006.8	1012	999	23.9	29.2	19.8	22.3	84	1	-1	-0.1	1.4
1000	90	133	32	24.2	28.3	20	22	79	1.5	-1.5	-0.3	2.6
950	538	595	464	23.7	29.2	17.4	18.2	75	2.3	-2.2	-0.6	4.4
925	773	819	696	22.5	28.7	15.8	16.7	72	2.5	-2.4	-0.8	4.7
900	1011	1058	935	21.1	27	13.8	14.3	77	2.7	-2.6	-0.6	5.2
850	1503	1552	1403	18	24.9	10.8	11.3	79	3.1	-3	-0.6	5.5
800	2020	2072	1913	14.8	23.2	7.2	8.2	81	3	-3	-0.5	5.4
750	2562	2622	2447	12	21.9	4.2	4.1	80	2.8	-2.8	-0.5	5.2
700	3138	3207	3018	9.3	20.6	0.2	0.4	74	2.5	-2.4	-0.7	5.3
650	3749	3834	3623	6.4	18.3	-3.5	-3.3	73	2.4	-2.3	-0.7	5.5
600	4401	4504	4271	3.1	10.4	-8.5	-7	74	2.5	-2.4	-0.7	5.6
550	5101	5209	4956	-0.6	7.2	-14.5	-11.3	70	3	-2.8	-1	5.9
500	5857	5969	5669	-4.9	3.8	-20.3	-16	67	3.4	-3.1	-1.3	6.3
450	6676	6803	6436	-10	-3.3	-28.7	-20.9	67	3.3	-3	-1.3	6.4
400	7577	7726	7426	-15.7	-8.1	-23.7	-27	65	2.6	-2.4	-1.1	6.2
350	8570	8745	8413	-22.6	-13.7	-30.1	-33.9	70	1.5	-1.4	-0.5	5.9
300	9685	9895	9528	-31	-20.3	-39.1	-41.6	180	0.7	0	0.7	5.7
250	10950	11194	10772	-41.5	-30.1	-50.1	-52.6	194	3	0.7	2.9	6.7
200	12422	12735	11589	-54.1	-42.1	-77.3	-65.4	187	4.9	0.6	4.9	8.5
175	13268	13619	12347	-61.1	-49.3	-81.1	-68.8	185	5	0.4	5	8.7
150	14211	14604	13205	-68.3	-56.5	-83.9	-83.8	181	3.9	0.1	3.9	8.1
125	15286	15724	14222	-75.2	-60.5	-86.5		161	2.1	-0.7	2	7
100	16561	17058	15508	-79.8	-62.9	-96.9		108	2.8	-2.7	0.9	6.3
80	17826	18353	16828	-77	-57.7	-89.3		95	3.8	-3.8	0.3	6
70	18603	19139	17638	-72.9	-56.7	-83.9		97	3.3	-3.3	0.4	5.6
60	19374	20053	19020	-68.3	-55.1	-81.3		93	3.7	-3.7	0.2	5.8
50	20623	21201	20099	-63.7	-49.2	-80.1		96	5	-5	0.5	6.9
40	22007	22597	21421	-59.1	-45.9	-72.7		96	6.7	-6.7	0.7	8.5
30	23824	24492	23144	-55.4	-42.8	-69.1		98	8.2	-8.1	1.2	9.9
25	24991	25709	24234	-53.2	-41.7	-69.5		101	7.3	-7.2	1.4	9.6
20	26431	27143	25571	-50.9	-41.2	-66.7		100	8.5	-8.4	1.5	10.4
15	28324	29068	27340	-48.9	-33.8	-66.3		99	5.7	-5.6	0.9	6.7
10	31086	31828	30307	-48.1	-38.1	-56.9		97	6.8	-6.8	0.8	7.2
7	33385	33535	33178	-46.6	-43.1	-50.9						

FREEZING LEVEL

P	Height	H_max	H_min
560	4971	6290	3610

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	1655	-82.1

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Station height 80

December

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1008.2	1013	999	22.5	26.6	17.6	20.1	87	1.8	-1.8	-0.1	2.1
1000	101	143	32	23.1	32.5	11.2	19.6	86	2.9	-2.9	-0.2	3.9
950	548	591	474	23.2	30.4	15	15.4	85	3.8	-3.8	-0.3	5.7
925	783	824	710	21.8	28.6	13.3	13.3	80	3.5	-3.4	-0.6	5.6
900	1019	1062	946	20.4	28	10.8	11.4	92	3.6	-3.6	0.1	5.6
850	1510	1576	1412	17.3	25.2	11.2	7.9	95	3.2	-3.2	0.3	5.2
800	2025	2079	1922	14.6	26.8	7.8	3.8	92	2.9	-2.9	0.1	5.1
750	2567	2632	2455	12.3	20.4	4.6	-0.9	84	2.7	-2.7	-0.3	5.2
700	3143	3217	3023	9.8	19	2.2	-4.5	79	2.6	-2.6	-0.5	5.3
650	3754	3842	3620	6.6	14.3	-1.3	-8.2	77	2.6	-2.5	-0.6	5.5
600	4406	4522	4258	3	10.2	-4.9	-12.2	77	2.7	-2.6	-0.6	5.9
550	5105	5226	4944	-1	7.4	-7.9	-16.1	75	2.4	-2.3	-0.6	6.2
500	5859	6001	5684	-5.5	2.8	-12.5	-21.4	72	2	-1.9	-0.6	6.4
450	6677	6831	6493	-10.6	-1.9	-19.1	-26.2	48	1.5	-1.1	-1	6.8
400	7574	7745	7373	-16.5	-7.9	-24.9	-31.9	328	0.9	0.5	-0.8	7
350	8563	8752	8355	-23.6	-13.9	-33.1	-37.9	279	2.5	2.5	-0.4	7.9
300	9673	9886	9462	-32.1	-21.7	-41.7	-45.9	258	4.7	4.6	1	9.2
250	10932	11194	10676	-42.4	-31.7	-53.5	-56	241	6.8	5.9	3.3	10.6
200	12400	12727	12066	-54.6	-42.7	-70.5	-66.5	235	8	6.6	4.6	12.2
175	13243	13609	12860	-61.4	-50.5	-74.9	-63.6	237	8	6.7	4.4	12
150	14182	14590	13751	-68.3	-57.3	-79.9		247	7.4	6.8	2.9	11.2
125	15258	15708	14753	-75	-63.5	-93.5		254	5.3	5.1	1.5	9.1
100	16535	17037	16076	-79.8	-68.5	-89.9		257	1.7	1.7	0.4	7.5
80	17805	18353	17284	-77.8	-64.3	-89.9		84	1.8	-1.8	-0.2	6.2
70	18578	19151	18016	-74	-57.3	-86.1		90	2.2	-2.2	0	5.6
60	19380	20079	18896	-69.1	-53.3	-82.1		88	2.5	-2.5	-0.1	5.4
50	20587	21211	20072	-64.4	-51.3	-79.5		96	3.1	-3.1	0.3	6
40	21960	22635	21404	-59.9	-49.1	-75.3		93	4.3	-4.3	0.2	6.6
30	23785	24505	23240	-55.3	-45.1	-66.5		98	3.4	-3.4	0.5	7.4
25	24954	25706	24371	-53.5	-43.7	-60.9		95	3.4	-3.4	0.3	7.1
20	26437	27188	25777	-50.7	-41.1	-59.9		94	2.9	-2.9	0.2	7.2
15	28345	29129	27591	-47.8	-37.1	-58.1		87	4.2	-4.2	-0.2	6.7
10	31071	31645	30144	-45.3	-38.1	-57.5		87	3.4	-3.4	-0.2	3.8
7	33701	34004	33384	-41	-38.3	-43.9						

FREEZING LEVEL

P	Height	H_max	H_min
563	4934	6460	3500

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16717	-81.7