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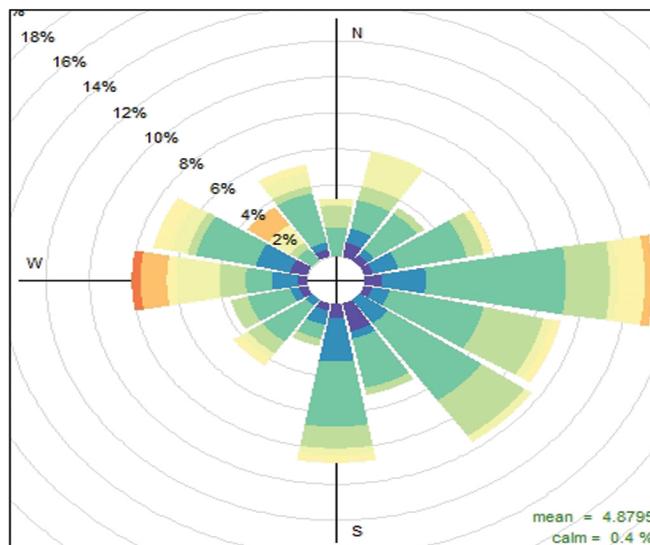
भारत मौसम विज्ञान भवन / INDIA METEOROLOGICAL DEPARTMENT

रेडियो सौन्डे और रेडियो विंड के मासिक सामान्य मूल्य (१९८१ - २०१०)

तथा मासिक उपरिवायु के पक्व दिग्दर्शक आरेख (२००० - २०१५)

MONTHLY NORMALS OF RADIOSONDE AND RADIOWIND (1981-2010) AND

MONTHLY UPPER AIR WINDROSE DIAGRAMS (2000-2015)



चेन्ऩई
CHENNAI
सितम्बर २०२०
SEPTEMBER 2020



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CHENNAI

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

सितम्बर २०२०
SEPTEMBER 2020

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 **Chennai** (Latitude 13° 00'N, Longitude 80° 11'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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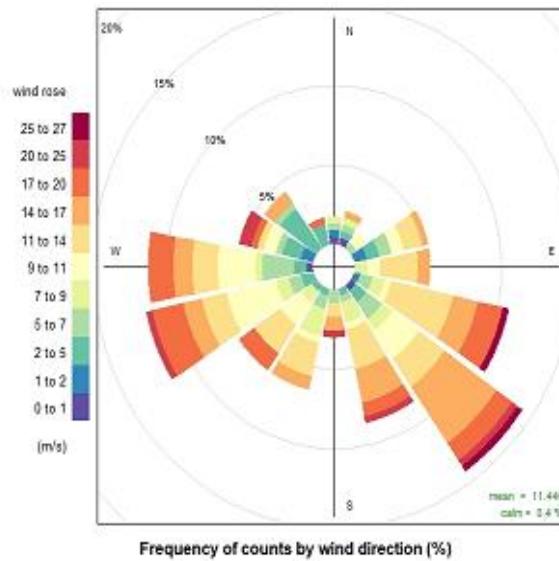
Description of various terms used in the table (Normals of Radiosonde data)

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.

Chennai

January

1000 hPa level

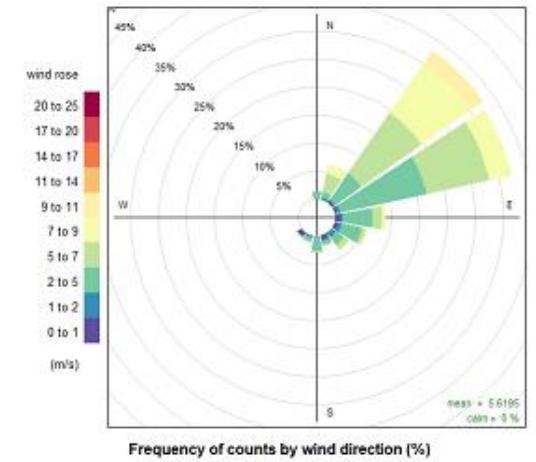
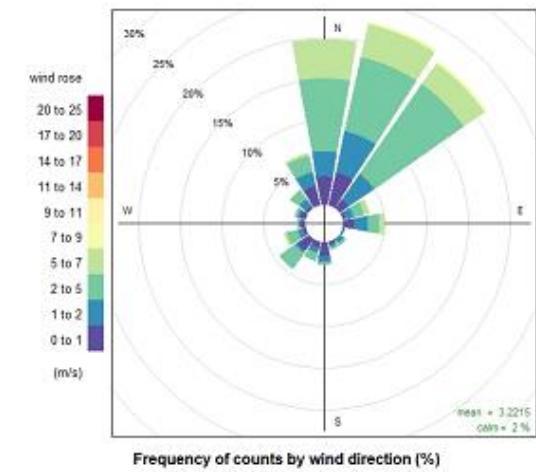
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	2	3.4	3	8.7	4.7	0	0	0	0	0	0	0
12-33		4	5	9.1	4	0.3	0	0	0	0	0	0
34-56		1.3	3.7	13.1	3	0.3	0	0	0	0	0	0
57-78		0.3	1	1.3	0.7	0	0	0	0	0	0	0
79-101		1.3	1.7	1.3	0.7	0	0	0	0	0	0	0
102-123		0	0.3	0	0	0	0	0	0	0	0	0
124-146		0	0.7	0.3	0	0	0	0	0	0	0	0
147-168		0.3	0	0.3	0	0	0	0	0	0	0	0
168-191		1.7	1	0.3	0	0	0	0	0	0	0	0
192-213		0.7	0.7	1	0	0	0	0	0	0	0	0
214-236		1.7	0.3	2.3	0	0	0	0	0	0	0	0
237-258		0.3	0.7	1.3	0.3	0	0	0	0	0	0	0
259-281		0.7	0	0.3	0	0	0	0	0	0	0	0
282-303		0.7	0.3	0.3	0	0	0	0	0	0	0	0
304-326		0.3	1	1.3	0	0	0	0	0	0	0	0
327-348		2.3	1.7	2	0.3	0	0	0	0	0	0	0

Chennai

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	0	1.3	0	0	0	0	0	0	0	0
12-33		0	0.3	1	3.4	1.7	0	0	0	0	0	0
34-56		0.3	0.3	5.7	13.1	10.8	2.7	0	0	0	0	0
57-78		0.3	0.7	15.8	11.4	4	0	0	0	0	0	0
79-101		1	0.3	5.4	1.7	0.3	0.3	0	0	0	0	0
102-123		0.7	0.7	3.7	0.7	0.3	0	0	0	0	0	0
124-146		0	1	1.7	1	0.3	0	0	0	0	0	0
147-168		0.7	0.3	0.7	0.3	0	0	0	0	0	0	0
168-191		0	0	2.7	0.3	0	0	0	0	0	0	0
192-213		0	0.3	0.7	0.3	0	0	0	0	0	0	0
214-236		0.7	0.3	0	0	0.3	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

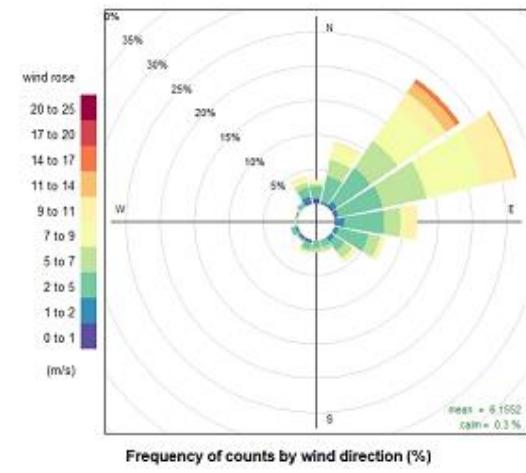


Chennai

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		0.7	0	1.7	0.3	0.7	0	0	0	0	0	0
12-33		0	0.3	3.8	2.4	2.1	0.7	0	0	0	0	0
34-56		0.3	0.7	5.9	4.8	6.2	2.4	1.7	0.7	0	0	0
57-78		0.3	0.3	6.6	6.6	8.6	4.5	0.3	0	0	0	0
79-101		0.3	1	5.9	2.4	0.7	1.7	0	0	0	0	0
102-123		0	0.7	4.5	1.7	0.3	0.3	0	0	0	0	0
124-146		0	0.7	1.7	1.4	0.3	0.3	0	0	0	0	0
147-168		0	0	1	0.7	0	0	0	0	0	0	0
168-191		0	0	1	0.7	0	0	0	0	0	0	0
192-213		0.3	0	1	0.3	0.3	0	0	0	0	0	0
214-236		0.3	0	0.3	0	0	0	0	0	0	0	0
237-258		0	0.3	0.7	0	0	0	0	0	0	0	0
259-281		0	0	0	0.3	0	0	0	0	0	0	0
282-303		0	0	0.3	0	0	0	0	0	0	0	0
304-326		0	0	0.7	0	0	0	0	0	0	0	0
327-348		0.3	0.7	1.4	0.7	0.7	0.3	0	0	0	0	0

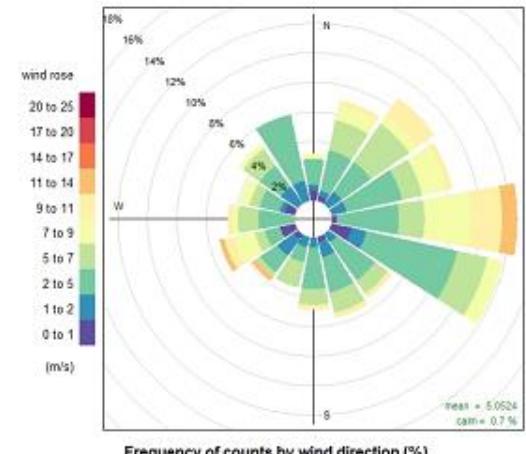


Chennai

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		0.7	0.3	1.7	0	0.3	0	0	0	0	0	0
12-33		0.3	0.3	2.8	2.1	1	0.3	0	0	0	0	0
34-56		0	1	2.4	3.1	0.7	1.4	0	0	0	0	0
57-78		0	1	3.8	1.4	1.7	0.3	0	0	0	0	0
79-101		0.3	0	4.2	1.7	3.1	2.1	1	0	0	0	0
102-123		1.4	1	6.3	2.1	1	0	0	0	0	0	0
124-146		0	0.7	3.1	1	0	0.3	0	0	0	0	0
147-168		0.3	1	2.4	1.4	0	0.3	0	0	0	0	0
168-191		0	0.7	2.8	1	0	0.3	0	0	0	0	0
192-213		0	0.7	1	1.7	0	0	0	0	0	0	0
214-236		0.3	1.4	1.4	0.3	0	0	0.3	0	0	0	0
237-258		1	0	1	0.7	1.4	0.7	0.3	0	0	0	0
259-281		0	0	2.4	1.4	0.3	0.3	0	0	0	0	0
282-303		0.7	0.3	1.4	0.7	0.7	0	0	0	0	0	0
304-326		0	1.4	1.7	1.4	0.3	0	0	0	0	0	0
327-348		0	1.4	4.5	0	0	0	0	0	0	0	0

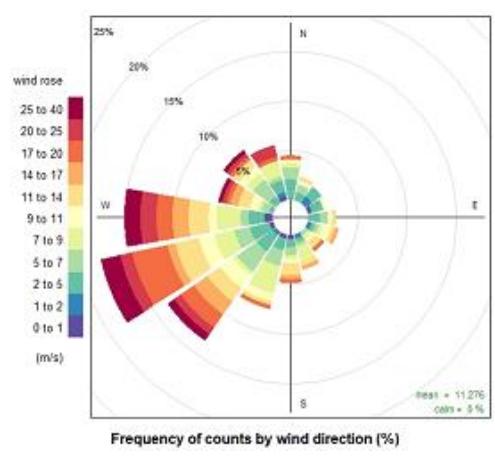
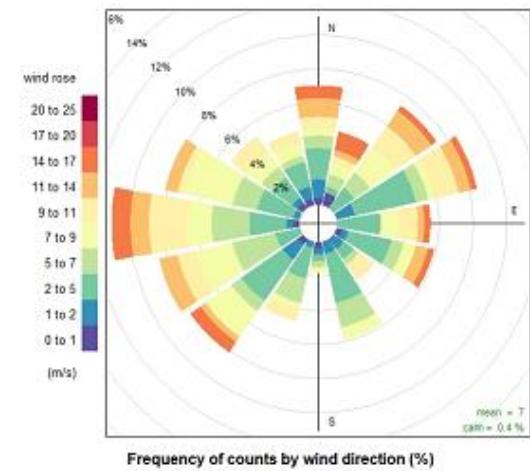


Chennai

January

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	1.1	1.8	0.7	0.4	0.7	1.1	0.7	0	0	0
12-33		0.7	0	0.4	0.7	0.7	0.4	0.4	1.1	0	0	0
34-56		0	0	1.5	1.1	1.8	1.5	1.1	0.4	0	0	0
57-78		0	1.1	3.7	0.7	0.4	1.5	0.7	0.4	0	0	0
79-101		0	0	2.6	0	1.1	1.1	0.4	0.4	0	0	0
102-123		0.4	0.4	2.6	0.7	0.7	0	0.7	0.4	0	0	0
124-146		0	0.7	0.7	0.4	0	1.1	0	0	0	0	0
147-168		0	0.7	3	1.5	0.7	0	0	0	0	0	0
168-191		0.4	0.4	0.4	0.4	0.4	0	0	0	0	0	0
192-213		0	0.4	1.8	1.5	0.4	0.7	0	0	0	0	0
214-236		0.4	1.1	3	0.7	1.8	0	0.4	0.7	0	0	0
237-258		0	0	1.5	2.6	2.2	1.1	1.1	0	0	0	0
259-281		0.4	0.4	2.2	2.2	1.5	2.2	1.1	1.1	0	0	0
282-303		0	0.4	2.2	1.5	3	0.4	0.7	0	0	0	0
304-326		0.4	0.4	1.5	0.7	1.1	1.1	0	0	0	0	0
327-348		0.4	0.7	1.5	0.4	0.7	0.7	0	0	0	0	0

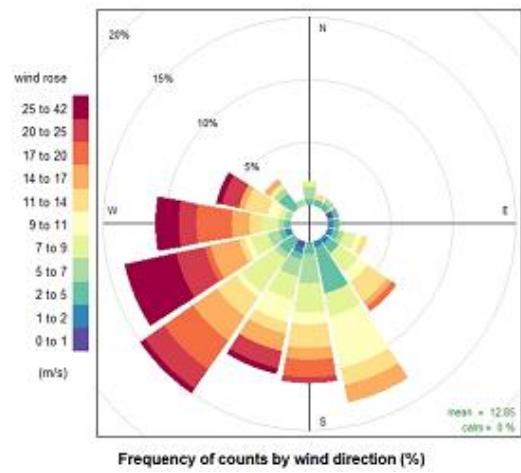


Chennai

January

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.5	0.9	0.5	0	0	0	0	0	0
12-33		0	0	0.5	0	0	0	0.5	0	0	0	0
34-56		0	0	0.5	0.5	0	0	0	0	0	0	0
57-78		0.5	0	0.5	0	0	0	0	0	0	0	0
79-101		0	0.5	0.5	0	0	0	0	0	0	0	0
102-123		0	0.5	0.5	0.5	0.9	0.5	0.5	0	0	0	0
124-146		0	0.5	0.9	0	1.9	0.9	1.9	0.5	0.5	0	0
147-168		0	0.5	3.8	0	1.9	4.2	1.4	1.4	0	0	0
168-191		0	0	0.9	2.3	2.3	0.9	1.9	0.9	1.4	0.5	0
192-213		0.5	0.5	1.4	1.9	1.9	0.9	1.4	0	1.4	0.5	0.5
214-236		0	0	1.4	0.5	3.3	0.5	1.9	2.3	2.8	1.9	0.5
237-258		0	0.5	0.5	0.9	1.4	0.5	0.5	2.3	0.5	2.3	4.2
259-281		0	0	0.5	0.5	1.4	0	0.9	1.4	2.8	1.4	1.9
282-303		0	0	0	0.5	0.5	0.9	1.9	0.5	0	1.4	0.5
304-326		0	0	1.4	0.5	0.5	0	0	0.5	0	0	0
327-348		0	0	0	0.5	0	0	0	0	0	0	0

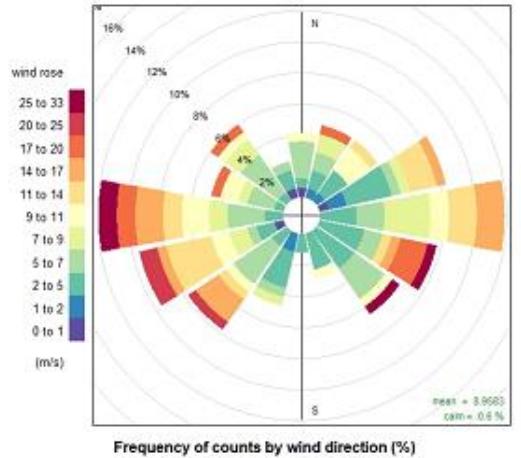


Chennai

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

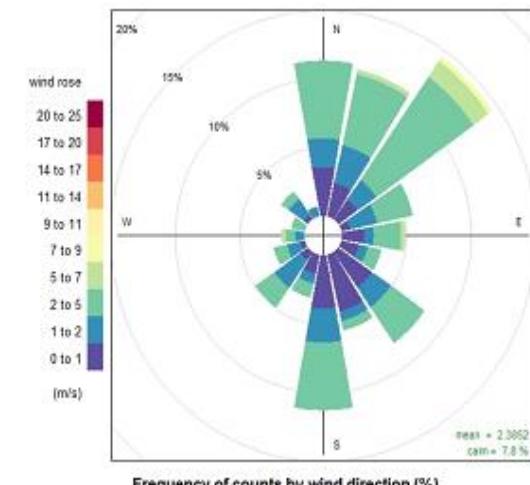


Chennai

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	8	3.5	2.1	5.7	0	0	0	0	0	0	0	0
12-33		2.5	2.8	5.3	0.4	0	0	0	0	0	0	0
34-56		1.8	1.8	9.2	1.4	0.4	0	0	0	0	0	0
57-78		0.7	2.1	2.8	0	0	0	0	0	0	0	0
79-101		1.8	0.7	2.1	0.4	0	0	0	0	0	0	0
102-123		1.4	0.7	1.1	0	0	0	0	0	0	0	0
124-146		3.2	1.8	3.2	0	0	0	0	0	0	0	0
147-168		4.2	0.7	0.7	0	0	0	0	0	0	0	0
168-191		3.9	2.5	4.9	0	0	0	0	0	0	0	0
192-213		1.4	0.7	1.1	0	0	0	0	0	0	0	0
214-236		0.7	2.5	1.8	0	0	0	0	0	0	0	0
237-258		0.4	1.1	1.1	0	0	0	0	0	0	0	0
259-281		0	0.7	0.7	0.4	0	0	0	0	0	0	0
282-303		0	0	1.1	0	0	0	0	0	0	0	0
304-326		0.4	1.4	0.7	0	0	0	0	0	0	0	0
327-348		0	0.7	0	0	0	0	0	0	0	0	0

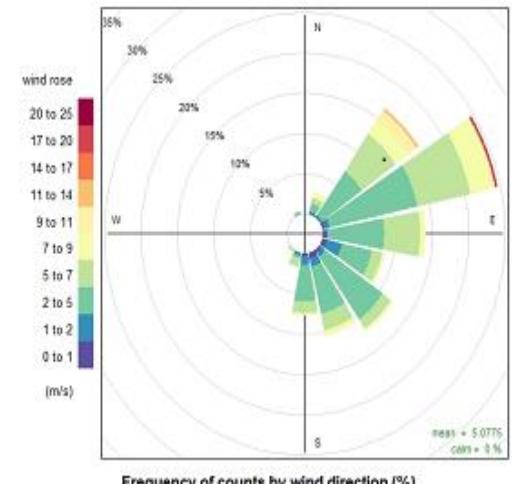


Chennai

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	0	0	0	0	0	0	0	0	0
12-33		0	0.4	1.1	0.7	0.7	0	0	0	0	0	0
34-56		0	0.4	6.7	5.6	2.1	1.4	0.4	0	0	0	0
57-78		0.4	0.7	12.3	7.4	3.2	0.4	0	0	0.4	0	0
79-101		0.7	0	7.7	4.9	0.7	0	0	0	0	0	0
102-123		0.7	2.1	4.2	1.4	0.4	0	0	0	0	0	0
124-146		0.4	0.7	9.5	1.4	0.4	0	0	0	0	0	0
147-168		0.7	1.1	5.6	2.1	0.7	0	0	0	0	0	0
168-191		0.4	1.1	4.9	1.4	0.4	0	0	0	0	0	0
192-213		0	0.4	0.4	1.1	0	0	0	0	0	0	0
214-236		0	0	0	0.4	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	0.4	0	0	0	0	0	0	0	0

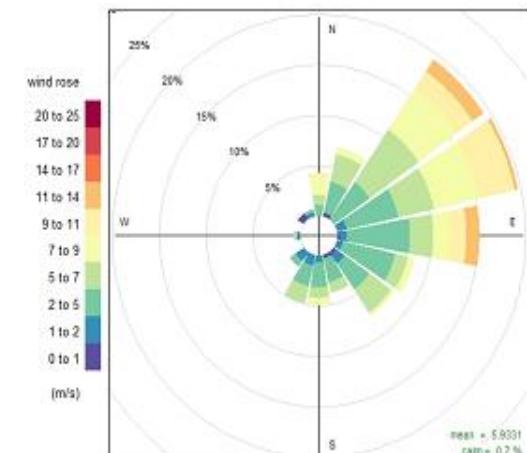


Chennai

February

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.1	1.1	1.8	0.4	0	0	0	0	0
12-33		0.4	0	3.2	2.8	0.7	0	0	0	0	0	0
34-56		0	0	4.6	6.3	4.9	2.1	1.4	0	0	0	0
57-78		0	1.1	5.6	3.9	4.9	3.9	0.4	0	0	0	0
79-101		0.4	0.7	6.7	2.5	1.8	1.8	1.4	0	0	0	0
102-123		0	0.7	5.6	1.4	0.7	0	0	0	0	0	0
124-146		0.4	1.1	3.2	2.8	0.4	0	0	0	0	0	0
147-168		0.4	0	2.5	1.1	0	0	0	0	0	0	0
168-191		0	0.7	2.5	1.1	0.7	0	0	0	0	0	0
192-213		0	1.1	2.1	1.8	0	0	0	0	0	0	0
214-236		0	1.1	0.7	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0.4	0	0.4	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0.7	0	0	0	0	0	0	0	0	0	0
327-348		0	0.4	0.4	0	0	0	0	0	0	0	0

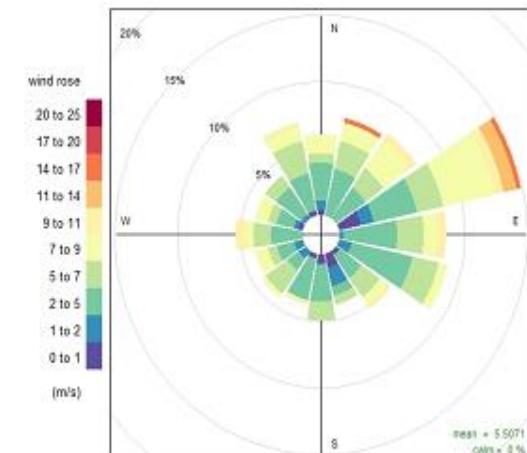


Chennai

February

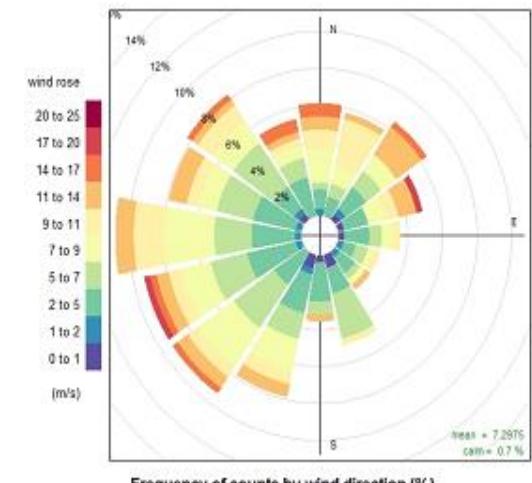
700 hPa level

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

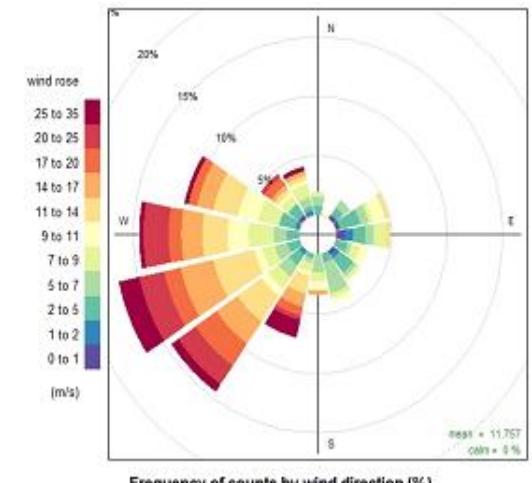


Chennai**February****500 hPa level**

Direction Speed	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	1.1	0.4	1.8	1.1	0.7	0.7	0	0	0
12-33		0	0	1.1	0.7	1.1	2.5	0.4	0	0	0	0
34-56		0.4	0.4	1.4	1.1	1.1	0	1.8	0.4	0	0	0
57-78		0.4	0	1.4	0	1.1	0.7	1.1	0	0.4	0	0
79-101		0.4	0	1.4	0.7	0.7	0.4	0	0	0	0	0
102-123		0	0.4	0.7	0.7	0.4	0.4	0	0	0	0	0
124-146		0	0.4	1.1	0.4	0.4	0	0.4	0	0	0	0
147-168		0.7	0	1.4	2.2	0	0	0	0	0	0	0
168-191		0.4	0	2.2	1.1	0	0.4	0.4	0	0	0	0
192-213		0.7	0.4	2.2	1.4	1.8	0.7	0.7	0	0	0	0
214-236		0	0	2.2	2.9	2.5	0.7	0.7	0.4	0	0	0
237-258		0	0.4	2.9	2.2	1.8	0.7	0.7	0.4	0.4	0	0
259-281		0	0.4	2.5	2.2	2.9	1.8	1.1	0	0	0	0
282-303		0	0.4	2.5	2.2	1.1	0.7	1.1	0	0	0	0
304-326		0.4	0.4	1.4	2.9	1.4	1.1	0.4	0.4	0	0	0
327-348		0	0	2.2	1.1	0.7	0.4	0.4	0.7	0	0	0

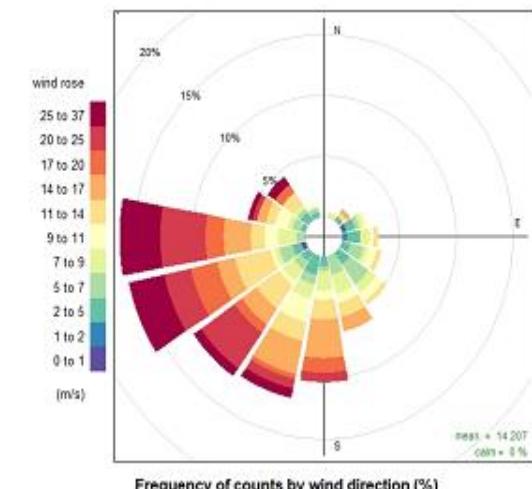
**Chennai****February****300 hPa level**

Direction Speed	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	0.8	0.4	0	0	0	0	0	0
12-33		0	0	0	0	0	0.4	0	0	0	0	0
34-56		0.4	0	0.8	0.8	0	0	0	0	0	0	0
57-78		0.4	0	1.9	0.8	0.4	1.1	0.4	0	0	0	0
79-101		0.8	0.8	1.1	0.8	1.1	0	0.4	0	0	0	0
102-123		0	0	1.1	0.4	0.8	0.8	0	0	0	0	0
124-146		0.4	0.4	1.5	0.4	0.4	0	0	0	0	0	0
147-168		0	0	0.8	2.3	0	0.4	0	0	0	0	0
168-191		0	0	0	1.9	1.1	0.8	0	0.4	0	0	0
192-213		0	0	0.4	0.4	0.8	0.4	1.5	1.1	0.8	0.4	1.5
214-236		0.4	1.1	1.1	1.1	0.8	2.7	2.3	2.3	1.9	0.8	0.8
237-258		0	0	1.1	1.1	1.1	0.8	3.8	3	1.5	2.3	1.9
259-281		0	0	1.1	1.1	2.3	1.9	2.3	1.9	1.1	2.3	0.4
282-303		0.4	1.5	0	1.9	1.9	2.3	1.5	1.5	0.8	0	0.4
304-326		0.4	0	1.1	0	0.8	0.4	0.4	0.4	0.8	0.4	0
327-348		0	0.4	0.4	0.8	1.1	0.4	0.4	0.4	0	0	0.4

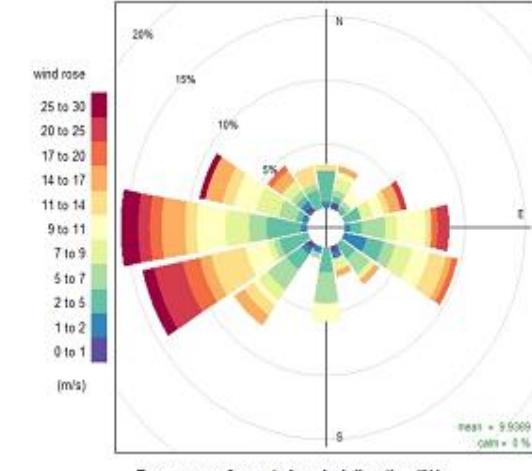


Chennai**February****200 hPa level**

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	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0.4	0	0	0	0	0	0
34-56		0	0	0.4	0	0	0	0.4	0.4	0	0	0
57-78		0.4	0	0.8	0.4	0.4	0.4	0	0	0	0	0
79-101		0	0.4	1.2	0	0.8	0.4	0.4	0	0	0	0
102-123		0	0	0.8	1.2	0.4	0.8	0.4	0	0	0	0
124-146		0	0	1.2	2	0.8	0.8	0.4	0	0	0	0
147-168		0	0	0	1.6	1.6	0.8	1.2	0.8	0	0	0
168-191		0	0	0.8	0.4	1.6	0.8	1.6	3.6	1.2	0.8	0
192-213		0	0	1.6	0.8	1.2	2	1.6	2.8	0.4	0.8	0.8
214-236		0	0	0.8	0.8	1.2	0.4	2.4	1.6	0.8	3.6	0.8
237-258		0.4	0	0.8	1.2	0.4	0.4	3.2	1.6	2.4	2.4	3.2
259-281		0	0	0	0.8	1.6	1.2	1.2	2.4	1.6	4	3.6
282-303		0	0	0.4	0.8	0.4	1.2	0.8	0.8	0	0.4	0.4
304-326		0	0	0.8	0.4	0.4	0	1.2	0	0.8	0	0.8
327-348		0	0	0.4	0.4	0	0.4	0	0	0	0	0

**Chennai****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	0.5	2.4	0	0	0	0.5	0	0	0	0
12-33		0.5	0	0.5	0.5	1	0.5	0	0.5	0	0	0
34-56		0	0	0.5	0.5	0	1	0	0	0	0	0
57-78		0	0	1.5	0	1	1	0.5	1	0	0.5	0
79-101		0	0.5	1	1.9	1	2.4	0.5	0	0.5	1	0
102-123		0	1.9	1.5	1	1.5	1.5	1.5	0.5	0.5	0	0
124-146		0	0	1.5	1.5	0.5	0	0	0.5	0	0	0
147-168		0.5	0.5	0	0	0.5	0	0	0.5	0	0	0
168-191		0	0	1.9	2.4	0.5	1.5	0	0	0	0	0
192-213		0	0.5	0	0.5	0	0	0	0	0	0	0
214-236		0.5	0.5	1.5	1.9	1	0.5	1	1	0	0	0
237-258		0	0	2.4	0.5	0.5	1.9	2.9	1	1.5	2.4	1
259-281		0	0.5	2.9	1.5	1.9	2.4	1	1.9	1	1	1.5
282-303		0	0.5	0.5	1.5	1.9	1.9	1	1.5	0	0	0.5
304-326		0.5	0.5	0.5	0.5	1	0	0	1	0.5	0	0
327-348		0	0	1.5	0.5	0	0	1.5	0	0	0	0

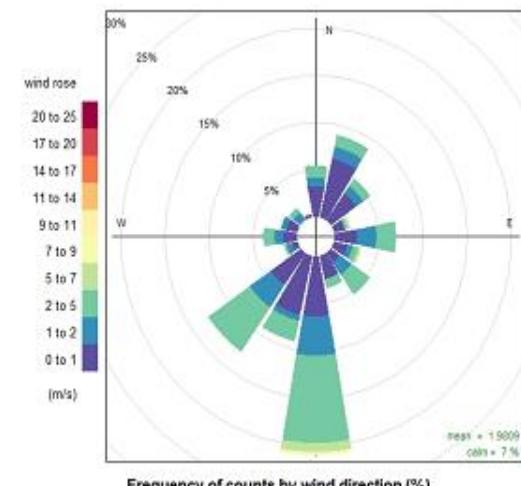


Chennai

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	7	3.2	1	1.3	0	0	0	0	0	0	0	0
12-33		6.4	1.3	1.3	0	0	0	0	0	0	0	0
34-56		3.5	1	1	0	0	0	0	0	0	0	0
57-78		1.3	0	0.3	0.3	0	0	0	0	0	0	0
79-101		2.5	2.2	2.2	0	0	0	0	0	0	0	0
102-123		1.6	0.6	0.6	0.3	0	0	0	0	0	0	0
124-146		1.3	1.6	2.5	0	0	0	0	0	0	0	0
147-168		2.2	0	1	0	0	0	0	0	0	0	0
168-191		6.7	4.1	9.2	1	0.3	0	0	0	0	0	0
192-213		6.4	0.6	2.2	0	0	0	0	0	0	0	0
214-236		4.1	2.9	5.7	0	0	0	0	0	0	0	0
237-258		0.6	0.6	0.3	0	0	0	0	0	0	0	0
259-281		1.6	1	1.3	0	0	0	0	0	0	0	0
282-303		1.3	0.6	0	0	0	0	0	0	0	0	0
304-326		0	1	0.6	0	0	0	0	0	0	0	0
327-348		0.3	0	0	0	0	0	0	0	0	0	0

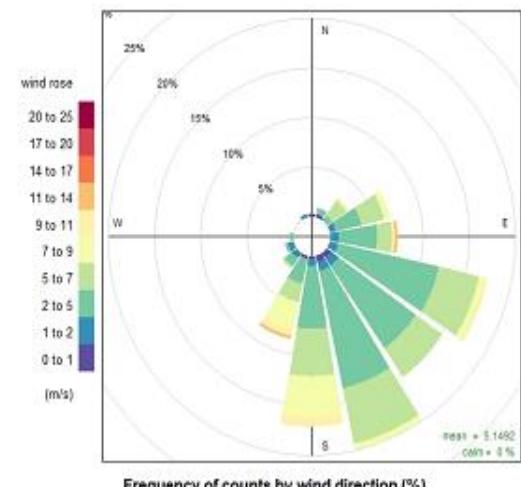


Chennai

March

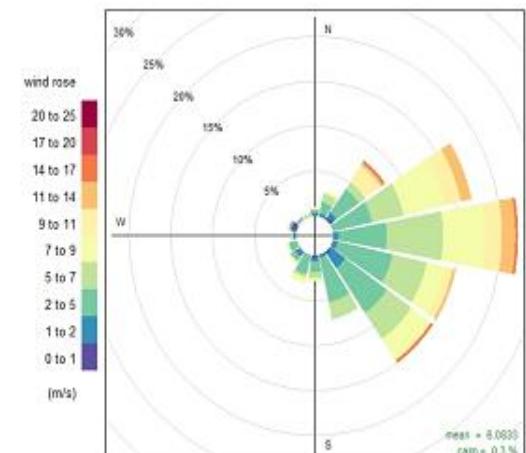
925 hPa level

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	0.3	0	0	0	0	0	0	0	0	0	0
12-33		0.3	0	0.6	0	0	0	0	0	0	0	0
34-56		0	0	0.6	1.9	0.3	0	0	0	0	0	0
57-78		0	0.6	2.9	2.5	0.6	0	0	0	0	0	0
79-101		0	1	4.1	1.6	0	0.3	0.3	0	0	0	0
102-123		0	1	11.1	4.4	0.6	0.3	0	0	0	0	0
124-146		0.6	1	10.2	3.5	0	0	0	0	0	0	0
147-168		0.6	1	11.7	5.4	0.6	0	0	0	0	0	0
168-191		0.3	0.6	6.7	5.1	4.1	1	0	0	0	0	0
192-213		0.3	0	2.5	1.9	2.9	0.6	0.3	0	0	0	0
214-236		0	0.6	1	0.3	0	0	0	0	0	0	0
237-258		0	0.6	0.3	0	0	0	0	0	0	0	0
259-281		0	0	0.3	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	0.3	0	0	0	0	0	0	0	0	0

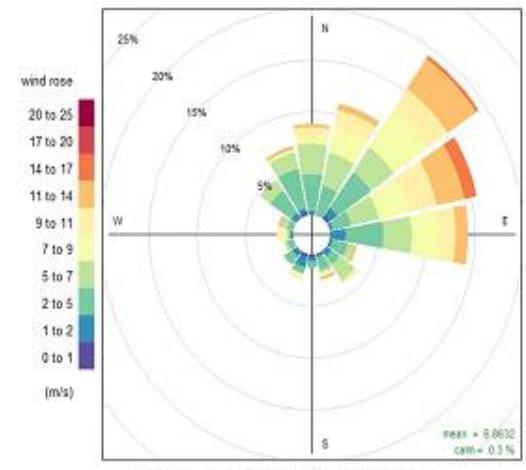


Chennai**March****850 hPa level**

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	0.3	0.3	0	0.3	0	0	0	0	0	0
12-33		0	0.3	1.3	1	0.3	0	0	0	0	0	0
34-56		0.3	0.6	3.2	1	0.3	1.9	0.3	0.3	0	0	0
57-78		0	0	4.8	3.8	5.1	1.9	1.3	0	0	0	0
79-101		0	0.6	5.8	6.7	5.1	1.9	1.6	0.3	0	0	0
102-123		0	0.6	6.7	4.2	2.2	1	0.3	0	0	0	0
124-146		0.3	1.9	6.1	3.5	2.6	0.3	0	0.3	0	0	0
147-168		0	0.3	4.8	1.9	0	0	0	0	0	0	0
168-191		0.3	0.3	1.6	0.6	0.3	0	0	0	0	0	0
192-213		0	0	2.2	0.3	0.6	0	0	0	0	0	0
214-236		0	0.6	0.6	0	0.3	0	0	0	0	0	0
237-258		0	0	1	0	0.3	0	0	0	0	0	0
259-281		0	0.3	0	0.3	0	0	0	0	0	0	0
282-303		0.6	0	0.3	0	0	0	0	0	0	0	0
304-326		0	0	0.3	0	0	0	0	0	0	0	0
327-348		0	0	0	0.3	0	0	0	0	0	0	0

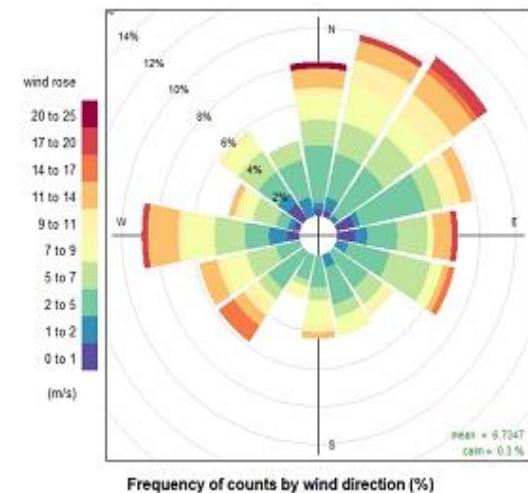
**Chennai****March****700 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	3.6	2.9	0.7	1	0.3	0	0	0	0
12-33		0	0	2.9	3.3	2.6	1.6	0.7	0	0	0	0
34-56		0.3	1	4.2	2.9	4.2	2.6	3.6	0.3	0	0	0
57-78		0	0.3	2	2.9	3.3	2.9	2.9	1.3	0	0	0
79-101		0	1.6	3.9	2.9	2.9	1.6	1.3	0	0	0	0
102-123		0	0.3	1.6	0.7	0	0	0.3	0	0	0	0
124-146		0	0.7	1	2	0	0.3	0	0	0	0	0
147-168		0	0.3	1.3	0.3	0.3	0	0.3	0	0	0	0
168-191		0.3	0.3	0.7	0	0	0	0	0	0	0	0
192-213		0.3	1	0.7	0	0.3	0.3	0	0	0	0	0
214-236		0	0.7	1	0	0	0	0	0	0	0	0
237-258		0	0	0.7	0.3	0	0	0	0	0	0	0
259-281		0	0.3	0	0.3	0.7	0.3	0	0	0	0	0
282-303		0	0	0.7	0.7	0	0	0.3	0	0	0	0
304-326		0	0.7	2.6	1.3	0	0	0	0	0	0	0
327-348		0.3	0.3	3.9	1.6	0.3	0	0.3	0	0	0	0

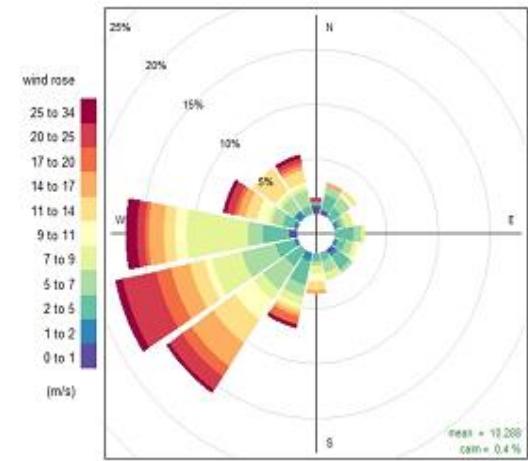


Chennai**March****500 hPa level**

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	0.3	0.3	3.1	1.4	1.4	0.3	1	0	0	0.3	0
12-33		0.3	0.7	2.4	1.7	2	1.4	1	0	0.3	0	0
34-56		0	0.3	3.1	2	1.4	1.4	1.4	0.3	0.7	0	0
57-78		1	0.3	3.7	1	0	1	0.7	0	0	0	0
79-101		1	0.7	1.7	1.7	0.3	0	1	0	0.3	0	0
102-123		0	0.7	2.4	2.4	0.7	0	0.3	0.3	0	0	0
124-146		0	0	2.4	1	0.3	0.3	0	0	0	0	0
147-168		0	0.7	2	0.7	1	0	0	0	0	0	0
168-191		0	0	1.7	0.7	1.4	0.3	0.3	0	0	0	0
192-213		0	0	1.4	0.3	0.7	0	0	0	0	0	0
214-236		0	0	2.4	0.7	0.3	0.7	0.7	1	0	0	0
237-258		0	0	1.4	1.7	1.4	0.3	1	0	0	0	0
259-281		0.7	1	1.4	1.7	1.7	0.3	1.7	0	0.3	0	0
282-303		0.3	0.3	0.7	1.4	0.7	0.3	0.3	0	0	0	0
304-326		1	0.7	1.4	1.4	1	0.3	0	0	0	0	0
327-348		0	1	2	1	0	0	0	0	0	0	0

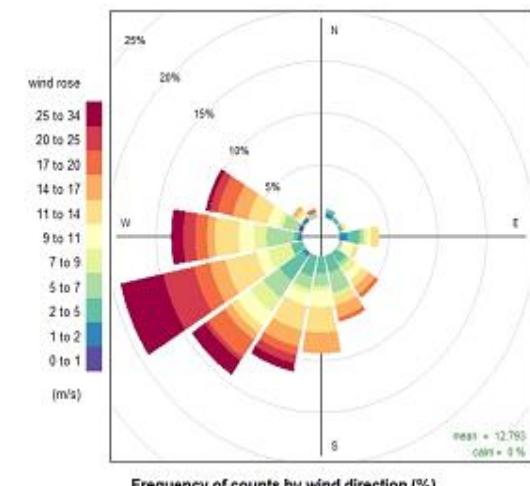
**Chennai****March****300 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.7	0	0.4	0	0	0	0	0	0	0.4	0
12-33		0.4	0	1.5	0.7	0	0	0	0.4	0	0	0
34-56		0	0	1.1	1.1	0	0.4	0.4	0	0	0	0
57-78		0	0.4	0.4	0.4	0.4	0	0.4	0	0	0	0
79-101		0	0	1.8	0.7	0.4	0	0	0	0	0	0
102-123		0	0.4	0.7	0.7	0.4	0.4	0	0	0	0	0
124-146		0.4	0.4	1.5	0.4	0	0	0	0	0	0	0
147-168		0	0	0.7	0.7	0.7	0	0	0	0	0	0
168-191		0	0	0.7	0.7	0.7	0.7	0.7	0.4	0	0	0
192-213		0	0.7	2.2	1.1	0.7	0.4	0.4	0.4	0.7	0	0.4
214-236		0	0	1.8	2.6	1.1	2.2	2.6	2.6	1.1	1.5	0.4
237-258		0	0.4	1.8	3.3	3	0.7	1.5	1.8	1.5	3.3	0.7
259-281		0.7	0	2.6	1.5	5.9	1.1	1.1	1.5	0.4	0.7	1.1
282-303		0	0.4	1.1	1.1	0.4	1.1	1.1	0.7	0.4	0.7	0.4
304-326		0	0.7	0	1.5	0.4	0.4	2.6	0	0	0	0
327-348		0	0	0.7	1.5	0.4	0.4	1.1	0.4	0.4	0.4	0.4

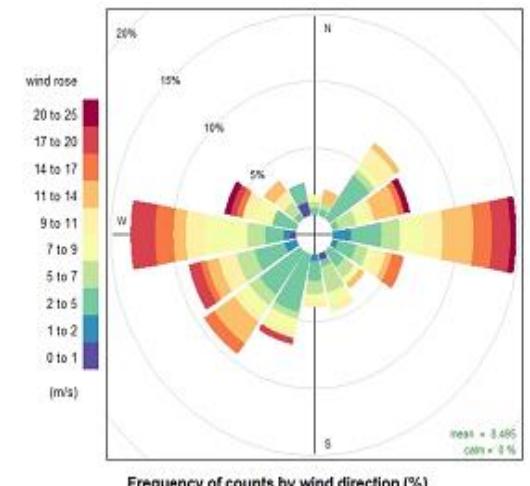


Chennai**March****200 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0.4	0.4	0	0	0	0	0	0	0	0
34-56		0	0	0.4	0	0	0	0	0	0	0	0
57-78		0	0	0.4	0	0.4	0	0	0	0	0	0
79-101		0	0.8	1.2	0.4	0.4	0.4	0.8	0	0	0	0
102-123		0	0	0	0.4	0	1.2	0.4	0	0	0	0
124-146		0	0	1.2	0.4	0.8	0.8	0.8	0.4	0	0	0
147-168		0	0	1.6	1.6	0.4	0	0.8	1.2	0.4	0	0
168-191		0	0	1.6	1.6	0.4	1.6	2.4	2	0	0	0
192-213		0	0	2	1.2	0.4	1.2	2.4	1.6	0.8	0.8	0.8
214-236		0	0.4	2.8	2	1.6	1.6	0.8	0.8	2	0.4	1.6
237-258		0	0	1.2	0	2.4	1.2	3.3	1.6	1.6	3.3	4.5
259-281		0	0.4	0.4	2.8	1.2	1.6	2.4	0.8	1.2	1.2	1.2
282-303		0.4	0	0	1.6	0.4	1.2	2	1.6	1.6	0.8	0.4
304-326		0	0.4	0	0	0	0.4	0.4	0.4	0	0	0
327-348		0	0	0	0.4	0	0	0	0.4	0	0	0

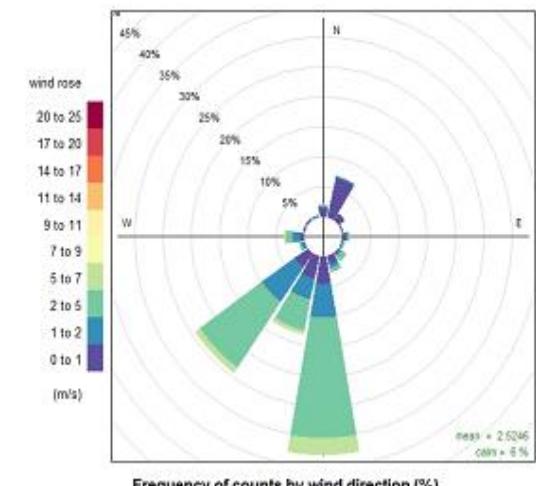
**Chennai****March****100 hPa level**

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	0.5	0.5	0.5	0	0	0	0	0	0
12-33		0	0	0.5	0.5	0	0	1	0	0	0	0
34-56		0	0	4	0.5	0.5	1.5	0.5	0	0	0	0
57-78		0	0	0.5	1.5	1	0.5	2	0.5	0	0.5	0
79-101		0	1.5	2.5	1.5	2	1.5	2.5	1.5	1.5	0.5	0
102-123		0	0.5	1.5	1	0.5	1	0.5	1	0	0	0
124-146		0	0	1.5	1	0.5	0	0.5	0	0	0	0
147-168		0.5	0	0.5	1.5	1	0.5	0	0	0	0	0
168-191		0	0.5	1.5	1.5	0.5	0.5	0	0	0	0	0
192-213		0	0	4.5	0.5	1	0.5	0	0	0.5	0	0
214-236		0	0	4	1	1	0.5	2	1	0	0	0
237-258		0	1	2.5	1.5	0	1.5	1	0.5	1	0	0
259-281		0.5	0.5	1.5	1.5	3.5	1.5	1	1.5	2	0	0
282-303		0	0	2	0	1.5	1	0	0.5	0.5	0.5	0
304-326		0	0	0.5	1	0	1	1	0	0	0	0
327-348		1	0	1.5	0	0	0	0	0	0	0	0

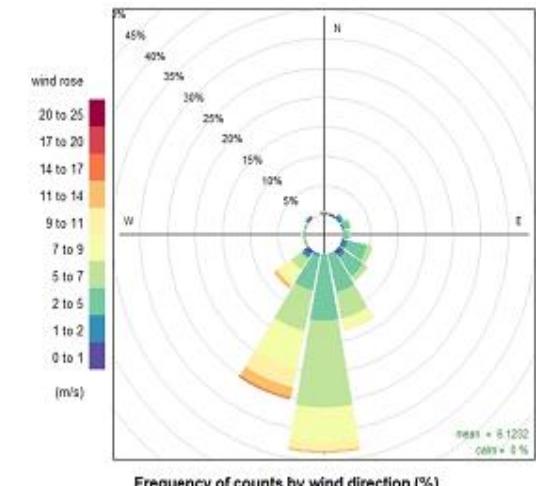


Chennai**April****1000 hPa level**

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	6	1.4	0.4	0	0.4	0	0	0	0	0	0	0
12-33		6.7	0.4	0	0	0	0	0	0	0	0	0
34-56		1.4	0	0	0	0	0	0	0	0	0	0
57-78		0.4	0	0	0	0	0	0	0	0	0	0
79-101		0.7	0.4	0.4	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		0.4	0.4	1.1	0	0	0	0	0	0	0	0
147-168		1.4	0.7	0.7	0	0	0	0	0	0	0	0
168-191		4.6	5.6	20.1	2.8	0	0	0	0	0	0	0
192-213		3.9	3.5	5.3	0.7	0	0	0	0	0	0	0
214-236		2.8	7	13.4	1.1	0	0	0	0	0	0	0
237-258		0	0.7	0.4	0	0	0	0	0	0	0	0
259-281		0.7	1.4	1.1	0.4	0	0	0	0	0	0	0
282-303		0.4	0	0	0	0	0	0	0	0	0	0
304-326		0.4	0	0	0	0	0	0	0	0	0	0
327-348		0	0.4	0	0	0	0	0	0	0	0	0

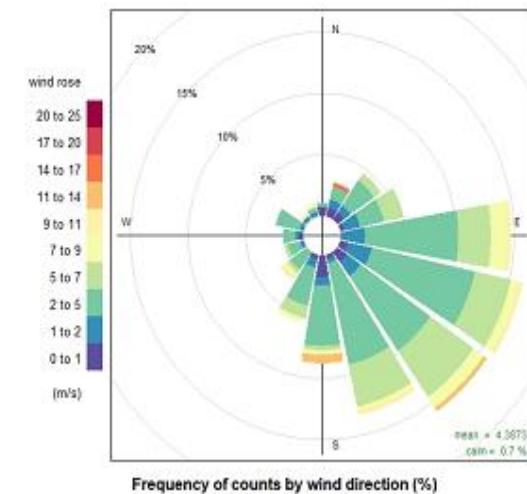
**Chennai****April****925 hPa level**

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	0.4	0	0	0	0	0.4	0	0	0	0
12-33		0.4	0	0	0	0	0	0	0	0	0	0
34-56		0	0.7	0.4	0	0	0	0	0	0	0	0
57-78		0	0.4	1.1	0.4	0	0	0	0	0	0	0
79-101		0	0	1.1	0.4	0	0	0	0	0	0	0
102-123		0.4	0.7	3.5	1.1	0	0	0	0	0	0	0
124-146		0.7	0.7	3.9	1.1	0	0	0	0	0	0	0
147-168		0	0	6.7	3.9	1.8	0.4	0	0	0	0	0
168-191		0	0	11.3	15.5	6	1.4	0.4	0	0	0	0
192-213		0	0.4	6	7	6.7	3.2	1.8	0.4	0	0	0
214-236		0.7	0.7	0.4	2.1	2.5	0.7	0.7	0	0	0	0
237-258		0	0	0.4	0	0.4	0	0	0	0	0	0
259-281		0	0	0.4	0	0.4	0	0	0	0	0	0
282-303		0	0	0.4	0	0	0	0	0	0	0	0
304-326		0.4	0	0.4	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0

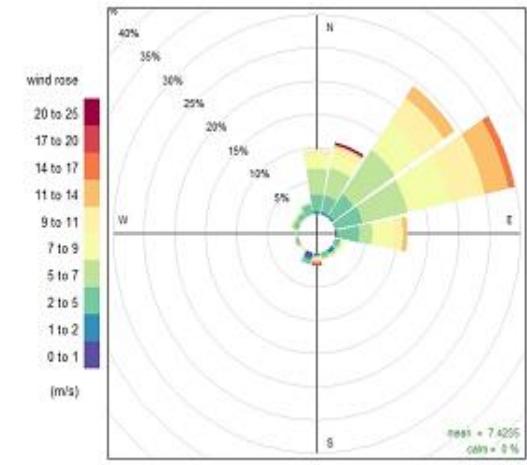


Chennai**April****850 hPa level**

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	0.7	0	0.4	0	0	0	0	0	0	0	0
12-33		0.7	0.7	1.1	0	0	0	0	0.4	0	0	0
34-56		0.7	0.7	2.5	0.7	0	0	0	0	0	0	0
57-78		0.4	1.4	2.1	1.8	0	0	0	0	0	0	0
79-101		0	2.1	8.1	2.8	1.4	0.4	0	0	0	0	0
102-123		0.7	2.1	9.2	3.2	0.7	0.4	0	0	0	0	0
124-146		1.1	1.4	7.4	4.6	1.1	0	0.4	0	0	0	0
147-168		0.4	0.4	7.7	3.5	0.4	0.4	0	0	0	0	0
168-191		1.8	0.7	5.6	0.4	0.4	0	0.7	0	0	0	0
192-213		0.4	0.7	3.2	1.1	0.4	0	0	0	0	0	0
214-236		0	0	1.8	0.4	0.4	0.4	0	0	0	0	0
237-258		0	0.4	1.1	0.4	0	0	0	0	0	0	0
259-281		0.4	0.4	1.1	0	0	0	0	0	0	0	0
282-303		0	0.4	2.1	0	0	0	0	0	0	0	0
304-326		0	0.4	0	0	0.4	0	0	0	0	0	0
327-348		0	0.4	0.4	0	0.4	0	0	0	0	0	0

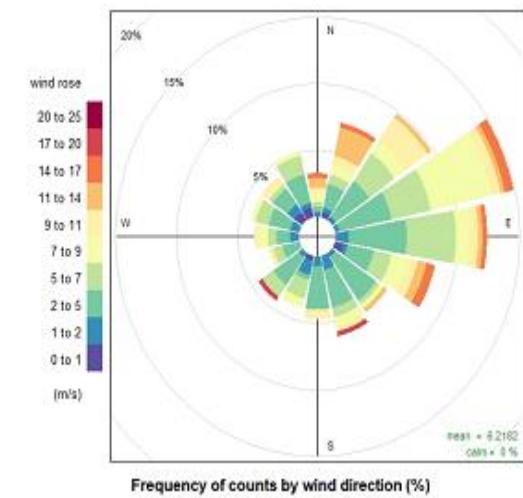
**Chennai****April****700 hPa level**

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	0.4	2.5	3.9	2.1	0.7	0	0	0	0	0
12-33		0	0.4	2.5	4.3	2.1	1.1	0.4	0	0	0.4	0
34-56		0	0.4	3.9	8.2	5.3	4.3	2.1	0	0	0	0
57-78		0	0	4.6	7.5	7.1	5.7	3.9	1.1	0	0	0
79-101		0.4	0	3.6	2.1	3.6	1.4	0.7	0	0	0	0
102-123		0	0	1.1	0	0.7	0	0	0	0	0	0
124-146		0	0.7	0	0.4	0	0.4	0	0	0	0	0
147-168		0	0	0.7	0	0	0	0	0	0	0	0
168-191		0	0.4	0	0.7	0	0.4	0.4	0	0.4	0	0
192-213		0.7	0.4	0.7	0	0	0	0	0	0	0	0
214-236		0	0	0	0.4	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	0	0.4	0	0	0	0	0	0	0
282-303		0	0	0.7	0.4	0.4	0	0	0	0	0	0
304-326		0	0	0.7	0.4	0	0	0	0	0	0	0
327-348		0	0	1.4	0.4	0	0	0	0	0	0	0

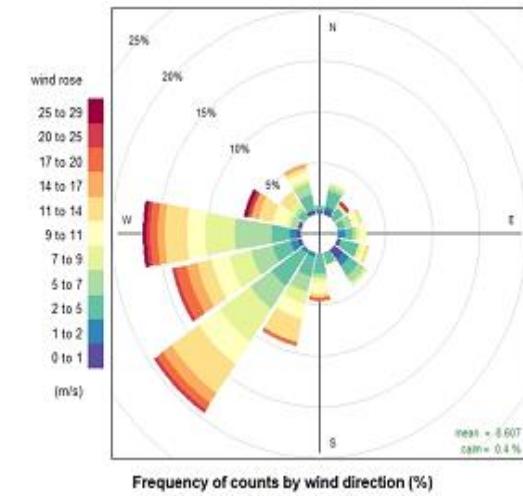


Chennai**April****500 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	0.4	0.4	0.7	0.4	0.7	0.4	0	0	0
12-33		0.4	0.4	1.8	0.7	0.7	0.7	2.2	0.4	0	0	0
34-56		0	0.4	3.3	2.5	1.1	2.2	0.4	0	0	0	0
57-78		0	0.4	4.4	3.3	5.1	0.7	0.4	0.7	0	0	0
79-101		0	1.1	4.7	4	1.1	0.7	0.4	0.4	0	0	0
102-123		0.7	0.4	2.2	1.5	1.5	0.7	0.7	0.7	0	0	0
124-146		0	0.4	4	0.4	0.4	0	0.4	0	0	0	0
147-168		0	1.1	2.5	0.7	0.7	0.4	0	0	0.4	0	0
168-191		0	0.7	3.6	0	0	0.7	0	0	0	0	0
192-213		0.4	1.1	0.4	1.5	0.7	0	0	0	0	0	0
214-236		0	0.4	2.5	1.1	0	0	0	0	0.4	0	0
237-258		0	0	1.5	0.7	0	0.4	0	0	0	0	0
259-281		0	0.7	1.1	0.7	0.7	0.4	0	0	0	0	0
282-303		0	0.7	1.8	1.1	0.4	0	0	0	0	0	0
304-326		0.7	0.7	1.5	0.4	0	0.7	0	0	0	0	0
327-348		0.7	0.4	2.2	1.5	0.4	0	0	0	0	0	0

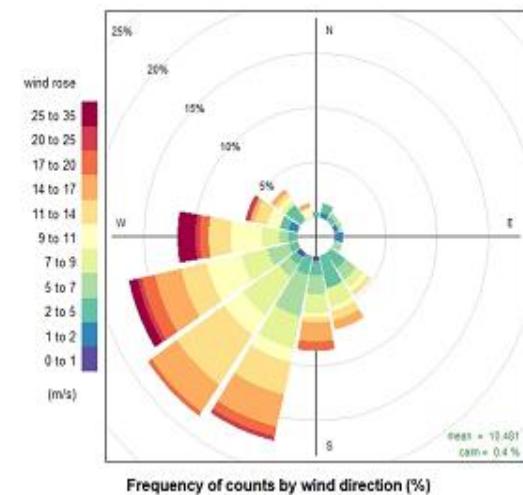
**Chennai****April****300 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.4	0.4	0	0	0	0	0	0	0	0
12-33		0.4	0.4	1.6	0.4	0.4	0	0	0	0	0	0
34-56		0	0	1.2	0	0.4	0	0	0	0	0.4	0
57-78		0	0	0.8	0.8	0	0.8	0.4	0	0	0	0
79-101		0	0.8	0.8	0.4	0.4	0.8	0	0	0	0	0
102-123		0.4	0	1.9	0	0.4	0.4	0.4	0	0	0	0
124-146		1.2	0.8	1.2	0.8	0.4	0	0	0	0	0	0
147-168		0	0	1.2	0	0	0.4	0	0	0	0	0
168-191		0	0	1.9	0.4	0.4	1.2	0.4	0	0.4	0	0
192-213		0	0.4	1.9	1.6	1.2	1.6	2.3	0	0.4	0	0
214-236		0	0.4	3.9	2.7	3.9	2.7	3.5	1.2	0.8	0.4	0
237-258		0.4	0.8	1.9	2.3	2.3	1.9	1.6	1.2	1.2	0.4	0
259-281		0.4	0.8	1.9	3.9	3.1	1.9	2.3	0.8	0.8	0.4	0.4
282-303		0.4	0	0	0.8	0.4	1.6	1.6	0.8	0	0.4	0.4
304-326		0	0	0.8	0.4	0.8	0	1.2	0	0	0	0
327-348		0.4	0	1.6	1.2	0.4	0.8	0.4	0.4	0	0	0

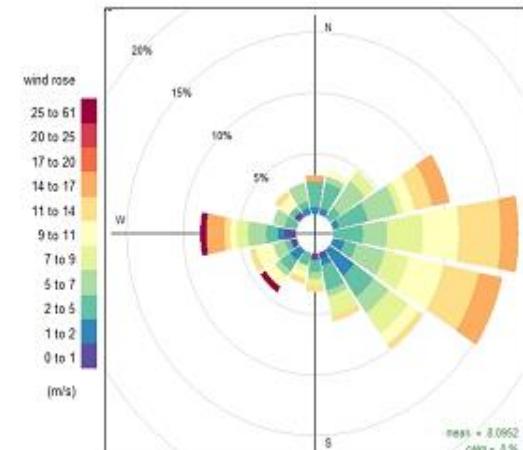


Chennai**April****200 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.4	0	0	0	0	0	0	0	0
12-33		0	0.4	0.9	0	0	0	0	0	0	0	0
34-56		0	0	0.4	0.4	0	0	0	0	0	0	0
57-78		0	0.4	0	0.4	0	0	0	0	0	0	0
79-101		0	0.9	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0.9	0	0	0	0	0	0	0
124-146		0	0	1.7	1.3	0.9	0.4	0.4	0	0	0	0
147-168		0	0	3	0	1.7	0.4	0.9	0.9	0	0	0
168-191		0.4	0	1.3	1.7	1.7	0.4	0.4	1.7	0.9	0	0
192-213		0	0	1.7	3.9	3	1.3	3	3	0.9	0.4	0
214-236		0.4	0	0.9	1.3	4.3	2.2	5.6	3	0.4	0	0
237-258		0	0	0.9	2.2	2.6	3.5	2.6	2.6	1.3	0.4	0.9
259-281		0	0	0.9	0.9	1.7	3	2.2	0	0.9	0.4	1.7
282-303		0	0.9	0.9	0	0	1.3	1.3	0.4	0	0.4	0
304-326		0	0	1.7	0	0.4	0.4	0.4	0.4	0	0	0
327-348		0	0	0	0	0	0.9	0	0.4	0	0	0

**Chennai****April****100 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.5	2.1	0	0	0	0	0.5	0	0	0
12-33		0	0.5	2.1	0.5	0	0.5	0	0	0	0	0
34-56		0	0	1.1	2.6	1.1	0	0	0	0	0	0
57-78		0	0.5	2.6	2.6	0.5	1.1	1.6	1.6	0	0	0
79-101		0	0	2.6	2.1	3.2	3.2	3.7	1.6	0	0	0
102-123		0	1.1	1.1	2.6	2.1	3.2	3.2	2.1	0	0	0
124-146		0	2.6	2.1	1.6	2.1	1.1	0.5	0	0	0	0
147-168		0.5	0.5	1.6	0.5	1.6	0	0.5	0	0	0	0
168-191		0.5	0	1.6	0.5	0.5	0	0.5	0	0	0	0
192-213		0	0	1.1	0	0.5	0.5	0.5	0	0	0	0
214-236		0	1.1	1.1	0.5	0	1.1	0	0	0	0	0.5
237-258		0.5	0	0.5	1.1	0	1.6	0.5	0	0	0	0
259-281		1.1	0.5	1.1	1.6	1.1	0.5	0.5	1.6	0	0	0.5
282-303		0	0	1.1	1.1	0	0	0	0	0	0	0
304-326		0.5	0	0.5	0	0	1.1	0.5	0	0	0	0
327-348		0	0.5	0.5	1.6	0	0	0	0	0	0	0



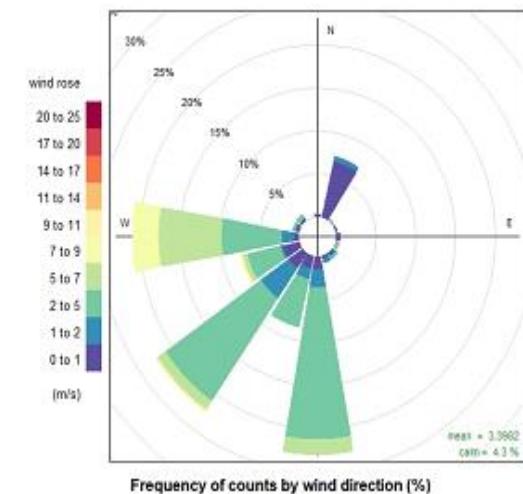
]

Chennai

May

1000 hPa level

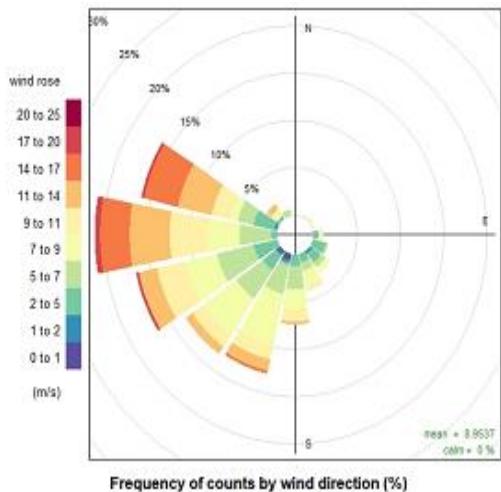
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	4	0.3	0	0	0	0	0	0	0	0	0	0
12-33		6.7	0.6	0	0	0	0	0	0	0	0	0
34-56		0	0	0.3	0	0	0	0	0	0	0	0
57-78		0.3	0	0	0	0	0	0	0	0	0	0
79-101		0.6	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0.6	0	0	0	0	0	0	0	0
124-146		0.3	0.3	0.3	0	0	0	0	0	0	0	0
147-168		0.3	0.6	0	0	0	0	0	0	0	0	0
168-191		1.5	2.1	17.6	1.8	0	0	0	0	0	0	0
192-213		1.5	1.2	5.8	0	0	0	0	0	0	0	0
214-236		2.1	4.3	14.6	1.2	0.3	0	0	0	0	0	0
237-258		2.1	0.3	4.3	0.6	0.3	0	0	0	0	0	0
259-281		0.6	1.5	7.6	7.9	3.3	0	0	0	0	0	0
282-303		0.3	0.3	0.3	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	0	0	0	0	0	0	0	0	0

Chennai

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	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	0.3	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0.6	0	0.3	0.3	0	0	0	0	0
102-123		0	0	1.5	0.3	0	0	0	0	0	0	0
124-146		0	0.3	1.2	0.6	0.6	0	0	0	0	0	0
147-168		0	0	0.9	0.6	0.9	0.6	0	0	0	0	0
168-191		0	0	1.2	2.8	2.8	1.2	0.3	0	0	0	0
192-213		0.6	0.3	0.3	3.1	5.6	1.5	1.2	0.3	0	0	0
214-236		0.3	0.3	1.9	3.7	4.6	1.5	0.9	0	0	0	0
237-258		0	0	2.8	4.3	3.7	3.4	2.2	0	0.3	0	0
259-281		0	0	0.6	3.7	3.7	4.3	4.6	3.4	0.6	0	0
282-303		0	0.3	2.5	1.9	0.9	2.2	4	4	0.3	0	0
304-326		0	0	0.3	0	0.6	0.3	0.6	0	0	0	0
327-348		0	0	0	0.6	0	0	0	0	0	0	0



Chennai

May

850 hPa level

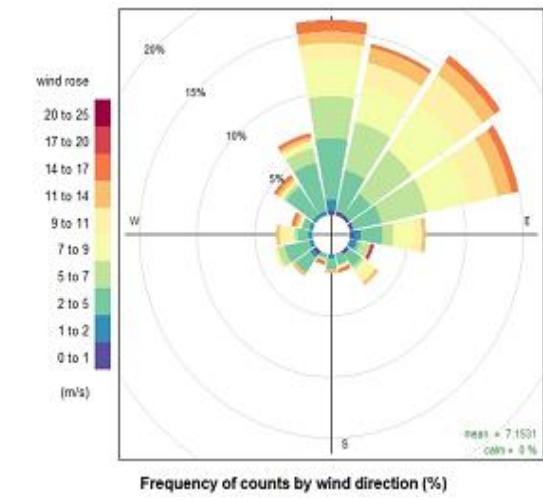
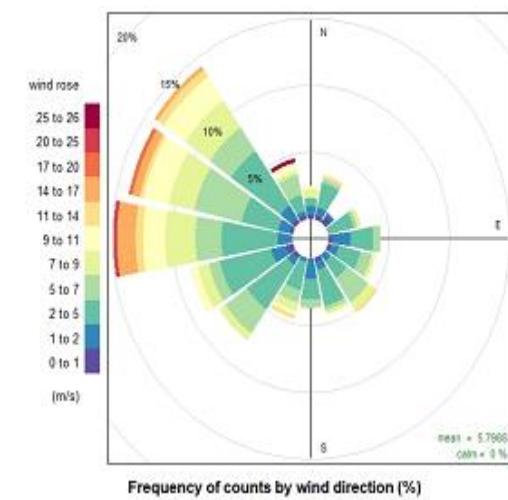
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.3	0.6	0.6	0	0.6	0.3	0	0	0	0	0
12-33		0.3	0.6	1.9	0.3	0	0	0.3	0	0	0	0
34-56		0.6	0.3	0	0	0	0	0	0	0	0	0
57-78		0	0	2.2	0.3	0.3	0	0	0	0	0	0
79-101		0.3	1.5	1.9	0.6	0	0	0	0	0	0	0
102-123		0.3	0.6	1.9	0.9	0.3	0	0	0	0	0	0
124-146		0	0.6	1.5	2.2	0.6	0	0.3	0	0	0	0
147-168		0.3	0.6	2.8	0.3	0.3	0	0	0	0	0	0
168-191		0	1.5	1.5	0.6	0	0	0	0	0	0	0
192-213		0	0.3	2.2	0.9	0.6	0.3	0.3	0	0	0	0
214-236		0.3	0.6	4	2.2	0.6	0	0	0	0	0	0
237-258		0.6	1.2	4.3	0.9	0.9	0.6	0	0	0	0	0
259-281		0	1.2	4.6	2.2	2.5	1.9	0.6	1.5	0	0.3	0
282-303		0.3	0.9	3.1	4	2.2	2.2	0.3	0.6	0.3	0	0
304-326		0.3	1.2	5	2.2	2.5	2.2	0.6	0.3	0	0	0
327-348		0.3	0.3	1.2	1.5	0.3	0.6	0	0	0	0	0.3

Chennai

May

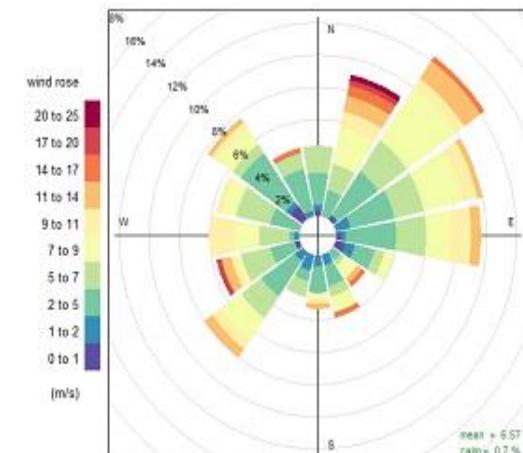
700 hPa level

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		0.3	0.9	5	3.4	3.1	1.2	0.9	0.9	0	0	0
12-33		0.3	0	3.4	4.1	3.1	1.9	1.2	0.3	0	0	0
34-56		0.3	0	2.2	4.4	4.7	2.8	1.2	0.6	0	0	0
57-78		0.3	0	2.5	4.1	3.8	2.5	1.2	0.6	0	0	0
79-101		0.3	0.6	1.9	0.9	1.9	0.6	0.3	0	0	0	0
102-123		0	0.6	0.3	0.9	0	0	0	0	0.3	0	0
124-146		0.3	0	1.2	0.3	0.6	0.6	0.3	0	0	0	0
147-168		0	0	0.6	0	0.3	0	0	0	0	0	0
168-191		0	0.3	1.2	0	0	0	0.3	0.3	0	0	0
192-213		0	0	0.3	0.3	0	0	0	0.3	0	0	0
214-236		0.3	0.3	1.6	0	0	0	0.3	0	0	0	0
237-258		0	0.3	2.2	0.6	0.3	0	0	0	0	0	0
259-281		0	0.3	0.9	0.3	0.3	0.9	0.3	0	0	0	0
282-303		0	0.3	0.6	0	0.3	0	0.3	0.3	0	0	0
304-326		0	0.3	2.8	0.3	0.3	0	0.3	0.3	0	0	0
327-348		0	0.3	4.1	1.2	0.3	0.3	0.3	0.3	0	0	0

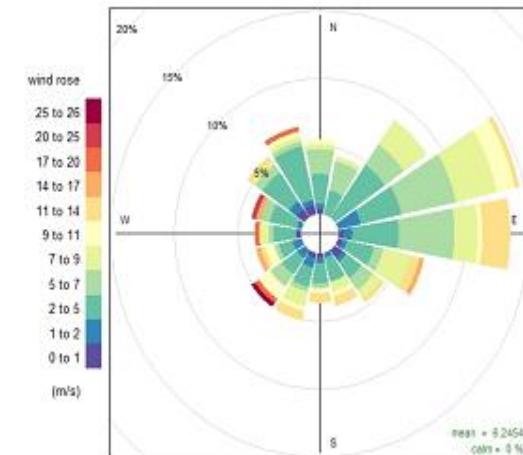


Chennai**May****500 hPa level**

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	0.3	0.3	2	1.7	0	0	0	0	0	0	0
12-33		0	0	1.7	1.7	2.3	1	1	0.7	0.3	0.3	0
34-56		0.3	0	3.3	2.3	4	0.7	1.3	0.3	0	0	0
57-78		0	1	3	2	2.7	1	0.3	0	0	0	0
79-101		0.3	0.3	3.3	2	1.7	1.3	0.7	0	0	0	0
102-123		0.7	0.7	1.3	0.7	0.7	0	0	0	0	0	0
124-146		0	0	0.7	0.3	1	0	0.3	0.3	0	0	0
147-168		0	0.7	1.3	0.7	1	0	0	0.3	0	0	0
168-191		0	0.7	1.7	0	0.3	0.3	0.3	0	0	0	0
192-213		0	1	0.7	1	0	0	0	0	0	0	0
214-236		0	0.7	2.7	1.7	1.7	0.7	0.7	0	0	0	0
237-258		0.3	0	1.7	2	0.3	0.3	0.7	0	0.3	0	0
259-281		0	0.3	0.3	2	1.7	1.7	0	0	0	0	0
282-303		0	0	2	2.3	1	0.3	0	0	0	0	0
304-326		1	0.3	3.7	0.7	1.3	0.3	0.3	0	0	0	0
327-348		0	0.3	2.7	1	0	0	0	0.3	0	0	0

**Chennai****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	0.4	0.4	2.2	1.8	0.4	0.4	0	0	0	0	0
12-33		0	0	1.8	2.2	0.4	0	0	0	0	0	0
34-56		0	0	4.8	1.8	2.2	0	0	0	0	0	0
57-78		0	1.8	3.3	4.4	3.3	1.5	0.4	0	0	0	0
79-101		0.4	0.7	3.7	4.4	1.8	0.4	2.2	0	0	0	0
102-123		0.4	0.4	2.2	0.7	2.2	0	0.7	0.4	0	0	0
124-146		0.7	0.4	1.5	1.1	0.7	0	0.4	0	0	0	0
147-168		0	0.4	1.8	0	0.7	0.4	0.7	0	0	0	0
168-191		0.4	0.4	1.5	0.4	0	0.4	0.7	0	0	0	0
192-213		0.4	0.7	1.5	0.4	1.1	0.4	0.7	0	0	0	0
214-236		0	0.7	1.5	1.1	0	1.1	0	0	0.4	0	0.4
237-258		0	0.7	1.1	0.4	0	0.7	0.4	0.4	0	0	0
259-281		0.4	0	1.8	0.4	0.7	0	0	0	0.4	0	0
282-303		0	0.4	2.2	0.7	0	0	0	0.4	0	0.4	0
304-326		0.7	0.7	2.6	0.7	0.4	0	0.4	0	0	0	0
327-348		0.7	0.4	4	0.4	0.4	0.4	0	0	0.4	0	0

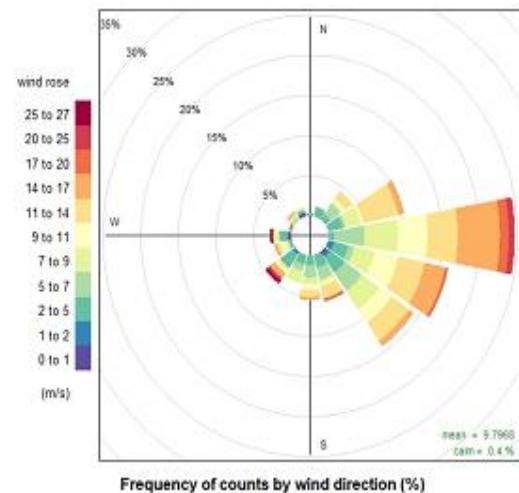


Chennai

May

200 hPa level

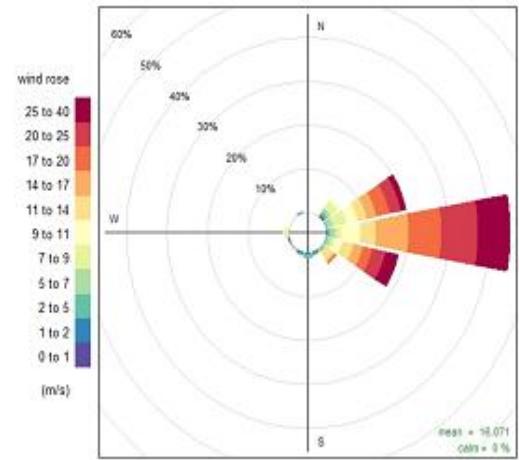
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.4	0	0	0	0	0	0	0	0
12-33		0	0	1.2	0	0	0	0	0	0	0	0
34-56		0	0	0.8	1.6	0.4	0.4	1.2	0	0	0	0
57-78		0	0	2	0.4	2	0.4	4.8	0.8	0	0	0
79-101		0	0	0.8	4	4.4	4	4	5.6	1.2	0.8	0
102-123		0	0.8	2	0.8	2.8	3.2	3.6	2.8	0.4	0	0
124-146		0.4	0.4	2.4	2.8	2.8	2	2.8	0.8	0	0	0
147-168		0	0	1.2	1.6	0.4	0.4	1.6	0	0.4	0	0
168-191		0	0	1.6	1.6	0.8	0.8	0.8	0.4	0	0	0
192-213		0	0	1.2	0.8	1.6	0	0	0	0	0	0
214-236		0	0.4	2	0	0.4	0.4	0	0.8	0	0.4	0.4
237-258		0	0	0.4	0	0.4	0.8	0.4	0.4	0	0	0
259-281		0.4	0	1.2	0	0.8	0	0	0	0	0	0.4
282-303		0	0	0	0	0	0	0	0	0.4	0	0
304-326		0	0	0	0.4	0.4	0	0	0.4	0	0	0
327-348		0.4	0	0.4	0	0.4	0	0	0	0	0	0



Chennai

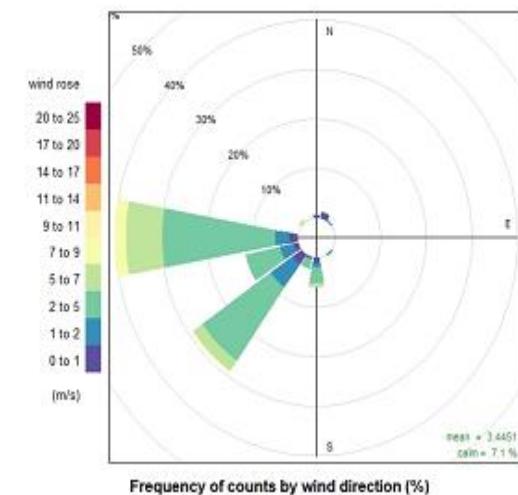
May

100 hPa level

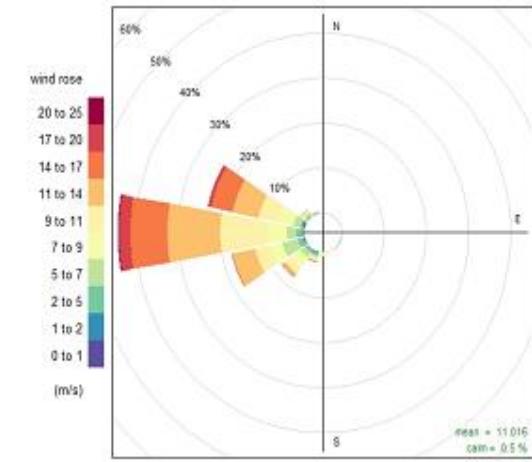


Chennai**June****1000 hPa level**

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	7	0.5	0	0	0	0	0	0	0	0	0	0
12-33		1.1	0.3	0	0	0	0	0	0	0	0	0
34-56		0	0.3	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	0.3	0.3	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		1.1	0.8	3.3	0.8	0	0	0	0	0	0	0
192-213		0.3	0.3	1.9	0	0	0	0	0	0	0	0
214-236		2.5	5.8	18.1	2.5	0.3	0	0	0	0	0	0
237-258		1.1	3	7.7	0	0	0	0	0	0	0	0
259-281		1.9	3	24.7	8	2.5	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0.5	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0

**Chennai****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	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	0.3	0	0	0	0	0	0	0	0
124-146		0	0	0	0.3	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0.3	0	0	0	0	0
168-191		0	0	0	0.5	0.3	0	0	0	0	0	0
192-213		0	0.3	0.5	0.5	0.5	0.3	0	0.3	0	0	0
214-236		0	0	0.8	1.4	2.5	1.9	0.8	0.3	0	0	0
237-258		0.3	0	1.4	3.8	3.3	3.3	5.4	0.3	0	0	0
259-281		0.3	0	1.6	2.2	4.6	11.2	12.5	8.7	2.7	0.3	0
282-303		0.3	0.3	0.5	1.6	3.8	4.6	6.3	5.2	0.8	0	0
304-326		0	0	0.3	0.8	0.3	0.3	0.3	0	0	0	0
327-348		0	0	0.3	0	0.3	0	0	0	0	0	0

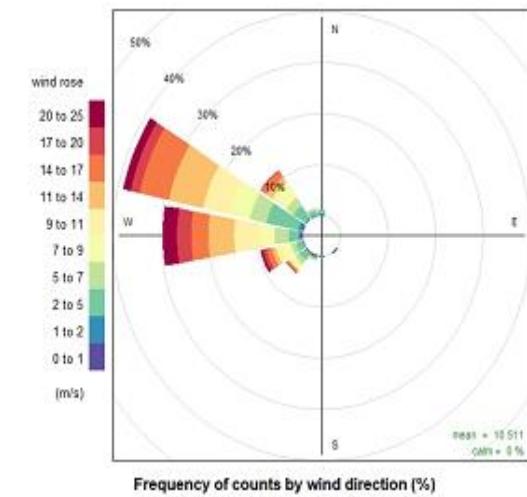


Chennai

June

850 hPa level

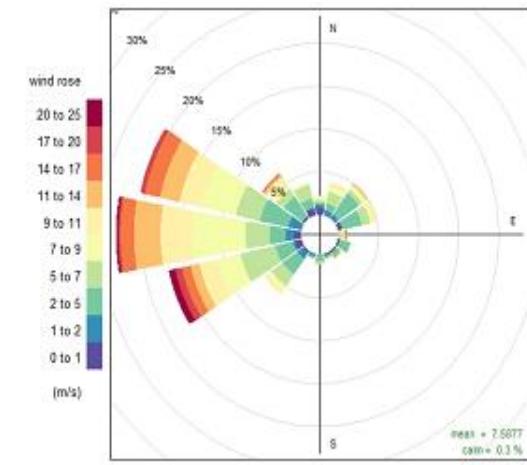
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0.3	0.8	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0.3	0	0	0	0	0
124-146		0.3	0	0.3	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0.3	0	0.3	0	0	0	0	0	0	0
192-213		0.3	0.3	0.3	0	0.3	0	0	0	0	0	0
214-236		0.3	0	1.6	1.1	0.5	0.8	0.3	0.3	0.3	0	0
237-258		0	0.3	1.4	1.1	1.9	1.4	0.8	1.1	0.8	0.5	0
259-281		0.5	0.3	2.2	3	3	5.5	5.5	3.6	3	3	0
282-303		0.3	0.8	6.8	3.6	4.4	5.7	7.4	6.3	1.9	1.6	0
304-326		0	0.3	3	1.9	2.7	0.8	1.4	1.4	0.3	0	0
327-348		0	0.3	0.8	0.5	0	0	0	0	0	0	0

Chennai

June

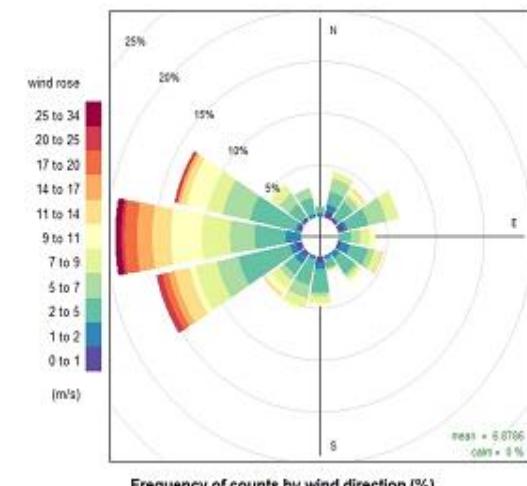
700 hPa level

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		0.8	0.3	0.3	0.3	0.6	0	0	0	0	0	0
12-33		0	0.6	0.8	1.4	0.6	0.6	0	0	0	0	0
34-56		0	0.6	3.1	0.6	0.6	0	0.3	0	0	0	0
57-78		0.6	0	2.5	1.1	0.3	0.6	0	0	0	0	0
79-101		0	0	0	0.6	0	0.3	0	0.3	0	0	0
102-123		0.3	0	1.4	0	0	0	0	0	0	0	0
124-146		0.3	0	0.6	0	0	0	0.3	0	0	0	0
147-168		0	0.3	0.3	0	0	0.3	0	0	0	0	0
168-191		0	0	0.8	0.3	0	0	0	0	0	0	0
192-213		0	0.3	0.3	0	0	0	0	0	0	0	0
214-236		0.3	0.8	2.2	1.7	0.6	0.6	0	0	0	0	0
237-258		0.8	0.3	2.2	4.5	3.1	2.2	1.1	1.1	0.8	0.8	0
259-281		0.8	1.1	1.9	3.1	6.7	3.9	3.3	1.7	0.3	0.3	0
282-303		0	1.7	3.6	3.1	4.5	2.8	2.5	1.9	0.6	0	0
304-326		0.3	0	2.8	1.1	0.3	1.4	0.3	0.3	0	0	0
327-348		0.8	0	1.1	1.7	0.3	0	0	0	0	0	0

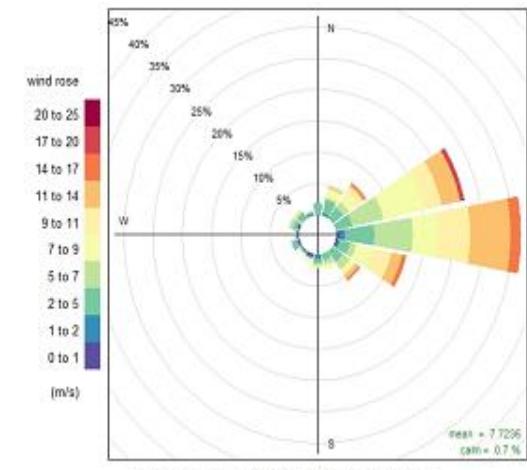


Chennai**June****500 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	0.6	0	0	0	0	0	0	0	0
12-33		0.6	0.6	1.3	1.3	0.6	0	0	0	0	0	0
34-56		0.3	0	1.9	0.6	0.3	0.3	0.3	0	0	0	0
57-78		0.6	0.3	2.2	1.9	1.3	0	0	0	0	0	0
79-101		0	0	1.3	1	1	0.6	0	0	0	0	0
102-123		0.3	1	1.9	0.6	0.6	0	0.3	0	0	0	0
124-146		0	0.6	1.9	0.3	0.3	0.3	0	0	0	0	0
147-168		0	0.3	1	0	0.3	0	0	0	0	0	0
168-191		0.6	0.6	2.2	0.3	0.6	0.3	0	0	0	0	0
192-213		0	0.3	2.6	1.3	1	0.3	0	0	0	0	0
214-236		0.3	1	1.3	0.6	1	0.6	0.3	0	0	0	0
237-258		0.6	0.6	5.4	2.2	2.2	0.6	1.6	0.6	0.6	0.6	0
259-281		0	1.6	3.2	2.6	2.9	3.2	1.9	1.6	1.3	0.3	0.6
282-303		0.3	0.3	4.8	2.9	1.6	2.2	0.6	0.3	0	0.3	0
304-326		0.3	0	1.6	1.3	1	0.3	0	0	0	0	0
327-348		0	0.3	1.6	1	0	0	0	0	0	0	0

**Chennai****June****300 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.8	0	0	0	0	0	0	0	0
12-33		0	0.4	2.2	0.4	1.5	0	0.4	0	0	0	0
34-56		0	0	2.2	1.1	1.8	1.1	0.4	0.4	0	0	0
57-78		0	0	2.9	5.5	7.3	2.9	3.3	0	0.7	0	0
79-101		0.7	0.7	5.1	6.5	4.4	5.5	6.9	1.8	0	0	0
102-123		0.4	0.4	1.8	1.1	2.9	3.3	1.8	0.7	0	0	0
124-146		0	0	2.2	1.5	0.4	0.7	0.7	0.4	0	0	0
147-168		0	0	1.1	0.7	0.7	0	0	0	0	0	0
168-191		0	0.7	0.7	0.4	0.4	0	0	0	0	0	0
192-213		0.4	0.4	0	0	0.7	0	0	0	0	0	0
214-236		0	0.4	0	0.4	0	0	0	0	0	0	0
237-258		0.4	0	1.1	0	0	0	0	0	0	0	0
259-281		0.4	0	0.4	0	0	0	0	0	0	0	0
282-303		0.4	0	0.7	0.7	0	0	0	0	0	0	0
304-326		0	0	1.1	0.4	0	0.4	0	0	0	0	0
327-348		0	0.4	0	0.4	0	0	0	0	0	0	0

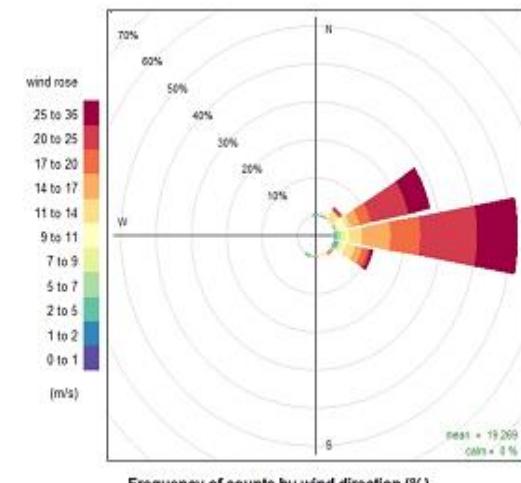


Chennai

June

200 hPa level

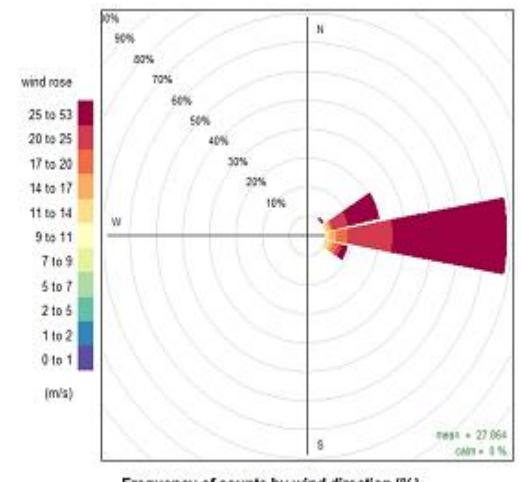
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0.4	0	0	0	0	0	0	0	0
12-33		0	0	0.4	0	0	0.4	0.4	0	0	0	0
34-56		0	0	0	0	0.4	0	2.4	0	0.4	0.8	0
57-78		0	0	0	0.8	0.4	2.4	1.2	2.8	3.2	10.8	6.4
79-101		0	0	0.8	1.2	1.2	1.2	3.6	8	8.4	16.1	11.6
102-123		0	0	1.6	0	1.2	0.8	2.8	2	1.6	0.8	0.8
124-146		0	0	0	0	0	0	0	0.8	0.4	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0.4	0	0	0
192-213		0	0	0.4	0.4	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

Chennai

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
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0.5	0.5	0.5
57-78		0	0	0	0	0	0	0.9	1.4	0.5	6.1	12.2
79-101		0	0	0	0	0.5	1.4	2.3	4.2	16.9	43.2	0
102-123		0	0	0	0.5	0	0	1.4	1.4	1.9	1.4	2.3
124-146		0	0	0	0.5	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	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

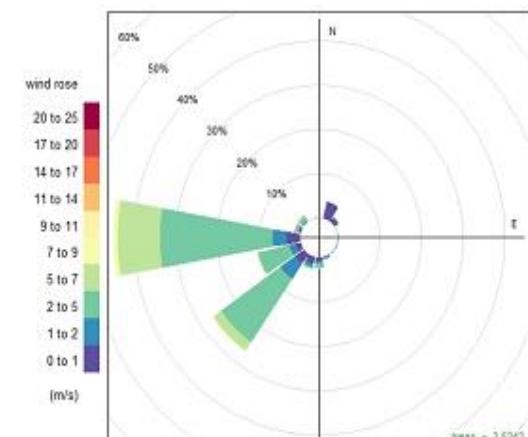


Chennai

July

1000 hPa level

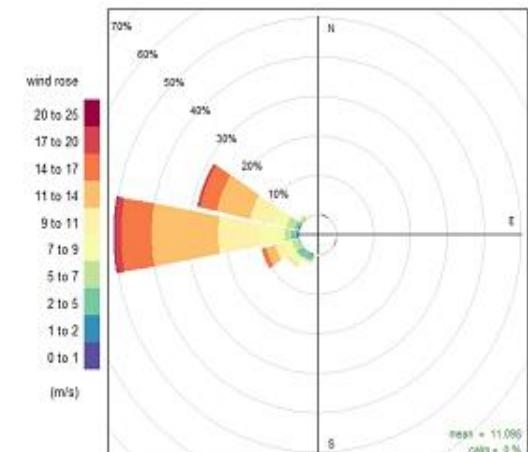
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	2	0	0	0.3	0	0	0	0	0	0	0	0
12-33		3.8	0	0	0	0	0	0	0	0	0	0
34-56		1	0.3	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0.3	0	0	0	0	0	0	0	0	0
102-123		0	0.3	0	0	0	0	0	0	0	0	0
124-146		0	0	0.3	0	0	0	0	0	0	0	0
147-168		0.3	0	0.5	0	0	0	0	0	0	0	0
168-191		0.8	0.5	1.3	0	0	0	0	0	0	0	0
192-213		1.5	0.8	0.5	0	0	0	0	0	0	0	0
214-236		2.5	4.3	17.3	2.3	0	0.3	0	0	0	0	0
237-258		1.3	1.5	7.6	0.3	0	0	0	0	0	0	0
259-281		3.3	3.3	27	10.2	1	0	0	0	0	0	0
282-303		0.5	0	1	0	0	0	0	0	0	0	0
304-326		0.3	0	1	0.5	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0

Chennai

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	0
12-33		0.3	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		0.3	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	0.3	0	0	0	0	0	0	0
168-191		0	0	0.3	0.3	0	0	0	0	0	0	0
192-213		0	0.3	1.3	0.5	0.3	0.5	0	0	0	0	0
214-236		0	0	1.8	0.5	1.3	1	0.3	0	0	0	0
237-258		0	0	0.3	1.8	2.1	2.6	2.6	1.3	0	0	0
259-281		0.3	0.3	1.5	1.8	6.7	11.3	18	8.2	1.8	0.3	0
282-303		0.3	0	1	2.3	3.6	6.4	9.3	4.6	0.8	0	0
304-326		0	0	0.3	0.5	0.5	0.3	0	0	0	0	0
327-348		0	0	0	0	0.3	0	0	0	0	0	0

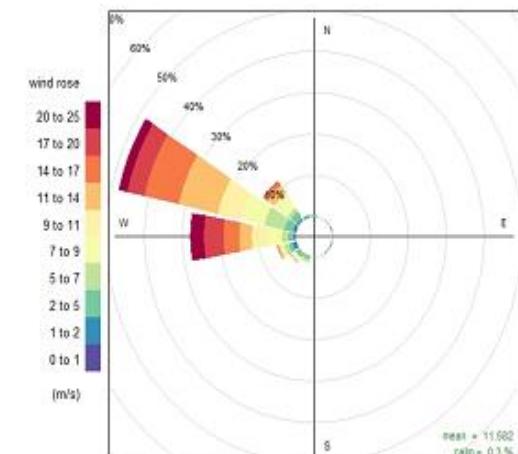


Chennai

July

850 hPa level

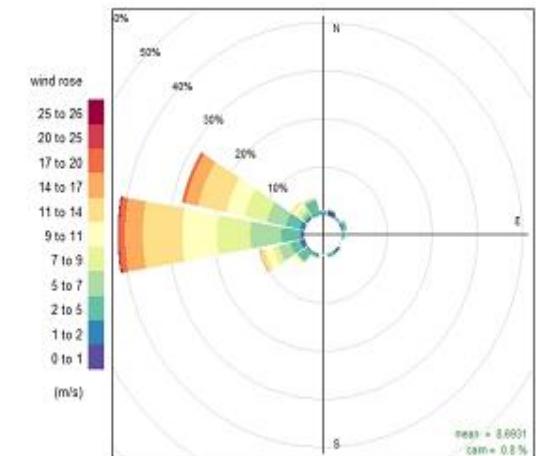
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.5	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0.3	0	0	0	0	0	0	0	0
57-78		0.3	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0.3	0	0	0	0	0	0	0	0	0	0
124-146		0	0.3	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.3	0	0	0	0	0	0	0	0
192-213		0	0	0.8	0.8	0.3	0	0	0	0	0	0
214-236		0	0	1.3	0	1	0.3	0	0.3	0	0	0
237-258		0.3	0.8	1	1.3	0.5	0.5	0.5	0.3	0	0	0
259-281		0.3	0.3	1.5	1.5	4.1	3.9	3.4	4.1	5.2	3.6	0
282-303		0.5	0.3	2.3	5.4	6.4	6.2	10.6	9.3	4.6	2.3	0
304-326		0	0.5	2.1	1	3.1	1.3	2.3	1	0.3	0	0
327-348		0	0.3	0.3	0	0.3	0	0	0	0	0	0

Chennai

July

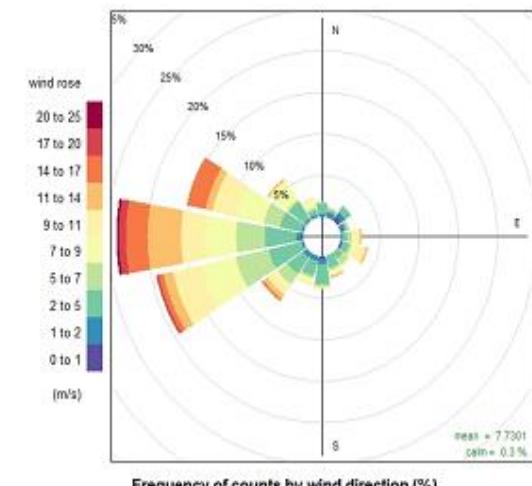
700 hPa level

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	0.3	0.5	0.3	0	0	0	0	0	0	0
12-33		0.8	0.3	0	0.3	0	0	0	0	0	0	0
34-56		0	0	0.5	0	0	0	0	0	0	0	0
57-78		0	0.5	0.8	0	0	0	0	0	0	0	0
79-101		0	0	0.8	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	0.3	0	0	0	0	0	0	0	0
147-168		0	0	0.8	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0.3	0	0	0	0	0	0
192-213		0	0.3	0.5	0	0	0	0.3	0	0	0	0
214-236		0	0.3	2.4	0.3	0.3	0.8	0	0	0	0	0
237-258		0.5	0.5	2.1	2.6	1.3	1.9	1.1	0.3	0	0	0
259-281		0.5	0.3	4.2	6.9	7.4	7.7	8.7	4	1.3	0	0.3
282-303		0	1.1	3.2	4.2	5	4.2	6.3	2.9	0.8	0	0
304-326		0.3	0.3	0.5	0.8	1.1	0.8	0.5	0	0	0	0
327-348		0	0.3	2.9	0	0.3	0	0	0.3	0	0	0

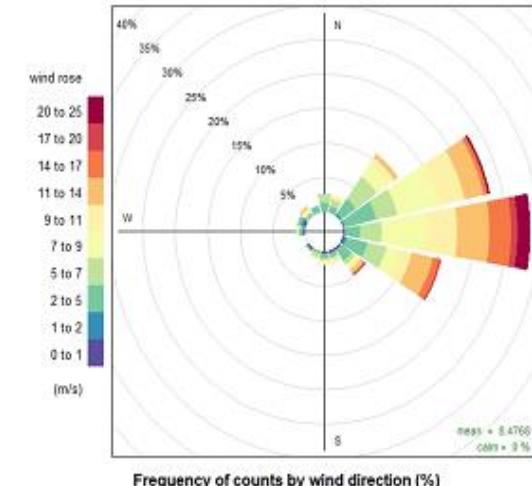


Chennai**July****500 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	1.2	0.3	0	0	0	0	0	0	0
12-33		0	0.6	0.3	0.3	0	0	0	0	0	0	0
34-56		0.6	0.6	0.9	0	0	0	0	0	0	0	0
57-78		0	0.6	0.3	0.3	0	0	0	0	0	0	0
79-101		0	0.3	0.6	0.6	0.3	0.6	0.3	0	0	0	0
102-123		0.3	0	0.9	0.3	0.6	1.2	0.3	0	0	0	0
124-146		0	0	0.9	0.9	0.3	0	0	0	0	0	0
147-168		0	0	1.5	0.3	0.6	0	0.3	0	0	0	0
168-191		0.3	0.6	2.5	0.3	0	0.3	0	0	0	0	0
192-213		0	0.6	1.8	0.3	0.6	0.3	0	0	0	0	0
214-236		0	0.6	2.5	1.5	0.6	0.9	0.6	0.3	0	0	0
237-258		0	0.3	4.3	4.3	4.6	3.7	1.2	0.6	0.3	0	0
259-281		0.3	0.6	4	3.7	4	3.1	4.3	2.8	0.9	0.3	0
282-303		0	0.3	2.8	2.1	3.7	3.1	0.9	2.5	0	0	0
304-326		0	0.3	2.5	0.3	2.5	0.3	0.3	0	0	0	0
327-348		0	0.3	0.6	0.3	0.9	0.3	0	0	0	0	0

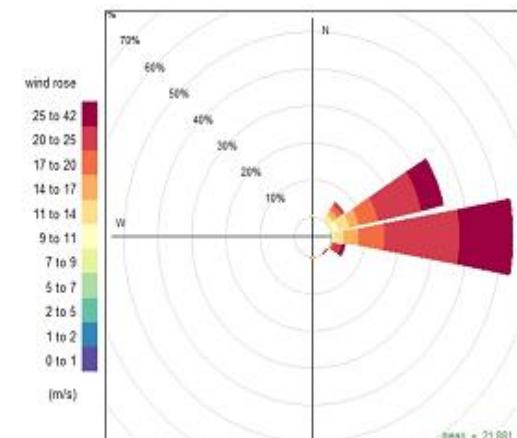
**Chennai****July****300 hPa level**

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	1.3	1.3	0	0	0	0	0	0	0
12-33		0	0	1	1	0.7	0	0	0	0	0	0
34-56		0	0.3	2.6	4	2.3	1	0.7	0	0	0	0
57-78		0	0.3	5	3.3	6.6	4	3	0.7	0	0.3	0
79-101		0.3	0	2.3	3.3	7	4.6	5	3.3	1	2	0
102-123		0.3	0.3	3.3	3	2	2	3.3	1	0.3	0	0
124-146		0.3	0	2	0.7	0.7	0.3	0.7	0	0.3	0	0
147-168		0.3	0	0.7	0.3	0.3	0	0	0	0	0	0
168-191		0.3	0	0.7	0.3	0.3	0.7	0	0	0	0	0
192-213		0	0	0.3	0.7	0.3	0	0	0	0	0	0
214-236		0.3	0	0.3	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0.3	0	0.7	0	0.3	0	0	0	0	0	0
282-303		0.3	0.3	0.7	0	0	0	0	0	0	0	0
304-326		0	0	0.3	0.3	0.3	0.3	0.3	0	0	0	0
327-348		0	0	1	0	0	0	0	0	0	0	0

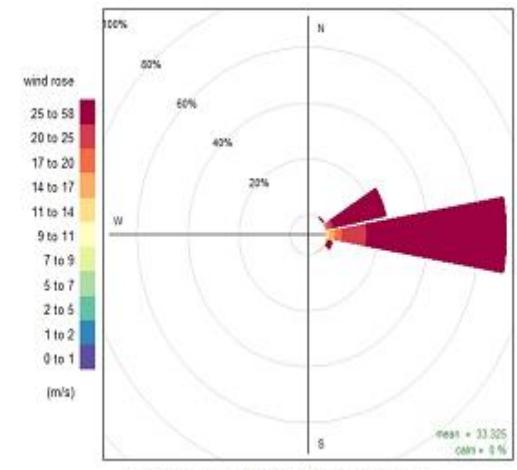


Chennai**July****200 hPa level**

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	0.4	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	0.7	0.4	1.1	1.4	1.4	1.1	0
57-78		0	0	0	0	0.7	1.8	3.2	2.9	5.8	12.9	6.8
79-101		0	0	0.4	0.4	0	0.4	2.9	4.3	7.6	21.9	15.8
102-123		0	0	0	0	0	0	0.4	0.4	0.4	2.5	1.1
124-146		0	0	0	0	0	0	0	0	0	0	0.4
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0.7	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

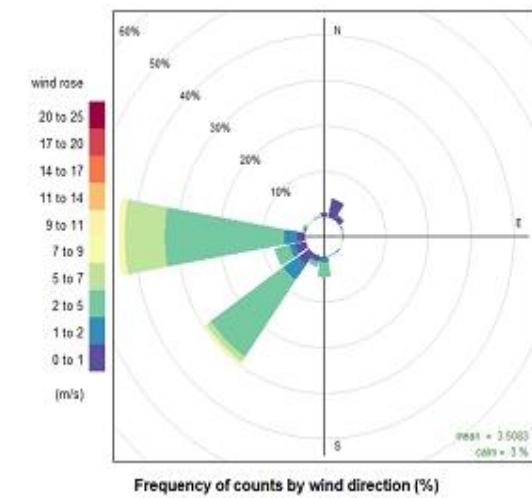
**Chennai****July****100 hPa level**

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
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	0.9
57-78		0	0	0	0	0	0	0	0	1.3	1.8	21.5
79-101		0	0	0	0	0	0	1.3	2.2	2.6	9.6	55.3
102-123		0	0	0	0	0	0	0.4	0.4	0	0	2.2
124-146		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
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

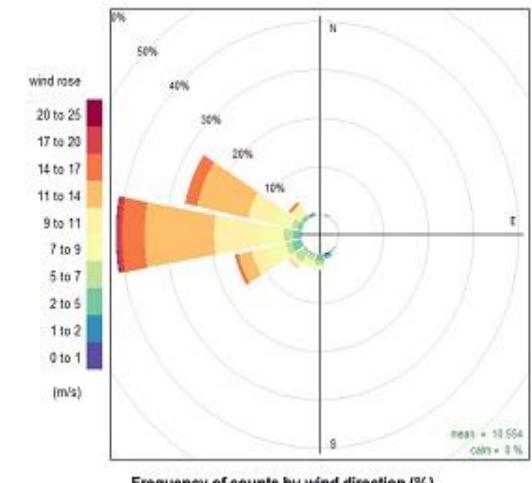


Chennai**August****1000 hPa level**

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	3	0.8	0	0	0	0	0	0	0	0	0	0
12-33		4.1	0	0	0	0	0	0	0	0	0	0
34-56		1.1	0.3	0	0	0	0	0	0	0	0	0
57-78		0.3	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	0.3	0	0	0	0	0	0	0	0	0
147-168		0	0	0.3	0	0	0	0	0	0	0	0
168-191		0.3	1.1	3.3	0	0	0	0	0	0	0	0
192-213		1.1	0.3	1.1	0	0	0	0	0	0	0	0
214-236		3	4.1	20.7	1.4	0.6	0	0	0	0	0	0
237-258		2.5	1.4	3.6	0	0	0	0	0	0	0	0
259-281		1.9	3	27.9	9.4	1.1	0.3	0	0	0	0	0
282-303		0.3	0	0.6	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0.3	0	0	0	0	0	0
327-348		0	0	0.3	0	0	0	0	0	0	0	0

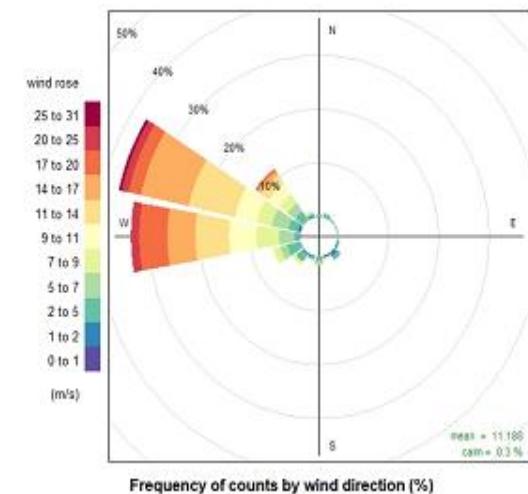
**Chennai****August****925 hPa level**

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	0	0	0	0	0	0	0	0	0
12-33		0	0	0.3	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	0.3	0	0	0	0	0	0	0	0
147-168		0.3	0.3	0.6	0	0	0.3	0	0	0	0	0
168-191		0	0	1.4	0.8	0.8	0.3	0	0	0	0	0
192-213		0	0	0.3	1.1	0.8	0.6	0	0	0	0	0
214-236		0	0	0.3	2.5	0.6	0.8	0.3	0	0	0	0
237-258		0	0	2.2	1.4	4.4	3.3	3	0.8	0	0	0
259-281		0	0.3	1.4	2.2	5	10.5	15.4	5	1.1	0.3	0
282-303		0	0	0.8	1.4	3.9	6.1	11.6	2.8	0	0	0
304-326		0	0	0.6	0.6	0.6	1.9	0	0.6	0	0	0
327-348		0	0.3	0.3	0	0	0.3	0	0	0	0	0

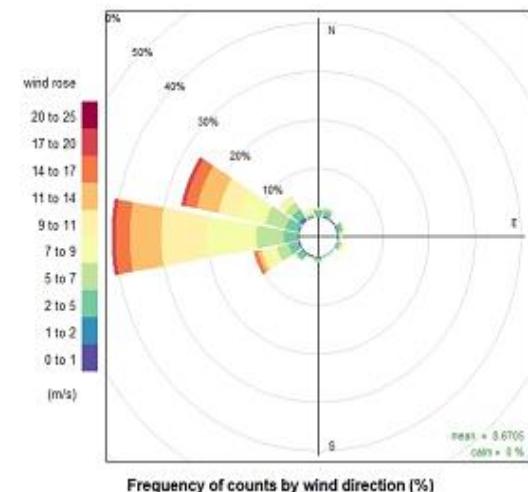


Chennai**August****850 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.3	0	0	0	0	0	0	0	0
12-33		0	0	0.6	0.3	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	0.3	0	0	0	0	0	0	0	0
79-101		0	0	0.3	0	0	0	0	0	0	0	0
102-123		0	0.3	0.3	0	0	0	0	0	0	0	0
124-146		0	0.8	0.8	0	0	0	0	0	0	0	0
147-168		0.3	0	0	0.3	0.3	0	0	0	0	0	0
168-191		0	0	0.8	0.6	0	0	0.3	0	0	0	0
192-213		0	0.3	0.3	0.3	0	0	0	0	0	0	0
214-236		0	0.3	1.7	0	0.6	0.6	0	0	0	0	0
237-258		0	0	2.8	1.4	1.4	0.3	0	0	0	0	0
259-281		0	0.3	0.8	3	4.4	5.5	6.6	5.5	5.5	1.7	0
282-303		0.3	0.3	1.9	3.3	3	4.4	9.4	9.7	2.5	1.4	0.6
304-326		0	0	1.9	1.9	1.9	2.5	1.9	0.8	0.6	0	0
327-348		0	0.3	0.3	0.3	0.3	0.3	0	0	0	0	0

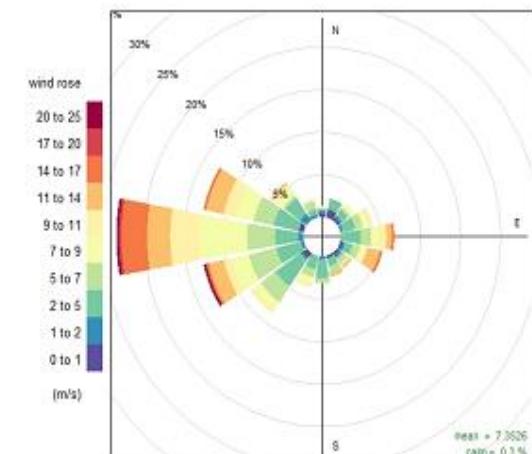
**Chennai****August****700 hPa level**

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	0	0	1.4	0	0.3	0	0	0	0	0	0
12-33		0.3	0	1.1	0.6	0	0	0	0	0	0	0
34-56		0.3	0	0	0	0	0	0	0	0	0	0
57-78		0.3	0	1.1	0	0.6	0	0	0	0	0	0
79-101		0.3	0	0.3	0.3	0.3	0	0	0	0	0	0
102-123		0	0	0.9	0.3	0.9	0	0	0	0	0	0
124-146		0	0	0.3	0	0	0	0	0	0	0	0
147-168		0	0	0.3	0	0	0	0	0	0	0	0
168-191		0	0.3	0.6	0.3	0	0	0	0	0	0	0
192-213		0.3	0	0	0.3	0.3	0	0	0	0	0	0
214-236		0	0.3	1.4	0.3	0.3	0	0	0	0	0	0
237-258		0.3	0	2.3	2.6	2.3	1.1	0.9	0.9	0	0	0
259-281		0.3	0	3.1	6	11.1	9.7	6.8	3.1	0.9	0	0
282-303		0	0.3	2.8	4.5	6	4.5	4.8	2.6	0.9	0	0
304-326		0.3	0.6	2	1.7	0.6	1.1	0	0	0	0	0
327-348		0	0.3	0	0.6	1.1	0	0	0	0	0	0

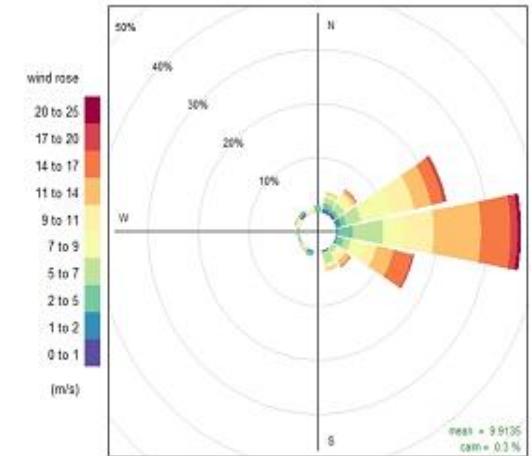


Chennai**August****500 hPa level**

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	0.3	0.3	0.3	0	0.3	0	0	0	0	0	0
12-33		1	0	1.3	0	0	0	0	0	0	0	0
34-56		0.3	0.3	1	0.3	0.6	0	0	0	0	0	0
57-78		0	0.3	1.6	1	0.6	0.6	0	0	0	0	0
79-101		0	0	2.6	1.3	1	1	0.6	0.3	0	0	0
102-123		0.3	0.3	1	1	0.6	0.3	1.6	0.3	0	0	0
124-146		0.3	0.3	0.6	0	0.3	0.3	0	0	0	0	0
147-168		0.3	0	1	1	0	0	0.3	0	0	0	0
168-191		0	0.3	2.2	0.6	0	0	0	0	0	0	0
192-213		0	0	1.6	1	1	0.3	0	0	0	0	0
214-236		0.6	0.3	3.8	2.2	1	0.6	0	0	0	0	0
237-258		0	0.3	3.2	3.5	2.2	1	1.9	0.3	0	0.3	0
259-281		0	0.6	2.9	3.5	6.1	3.5	2.9	3.2	0.3	0.3	0
282-303		0.6	0	3.2	2.6	2.2	1.6	2.2	0.3	0	0	0
304-326		0	1	2.2	0.3	1	0.6	0.3	0	0	0	0
327-348		0	0.3	0.6	1	0	0.3	0	0	0	0	0

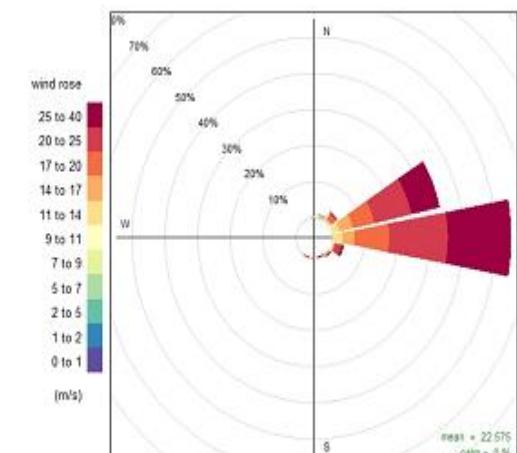
**Chennai****August****300 hPa level**

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	1	0	0	0	0	0	0	0	0
12-33		0.3	0.3	1	1	0.7	0	0.3	0	0	0	0
34-56		0.3	0.3	0.7	1.4	1	1	0.7	0.3	0	0	0
57-78		0	1	1	3.1	6.2	4.5	3.5	2.4	0.7	0	0
79-101		0	0.3	3.1	5.9	4.2	5.9	9.3	5.9	1.4	0.7	0
102-123		0	0.3	1.4	1.4	3.1	2.1	3.5	3.8	0.3	0	0
124-146		0	0	0	1	1	1	0.3	0	0	0	0
147-168		0	0.3	0	2.1	0.3	0.7	0.3	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0.3	0.7	0	0	0	0	0	0	0	0
214-236		0	0	0	0.3	0	0.3	0	0	0	0	0
237-258		0	0	0.3	0	0	0	0	0	0	0	0
259-281		0	0	0.3	0.3	0	0	0	0	0	0	0
282-303		0	0	0	0.7	0	0.3	0	0	0	0	0
304-326		0.3	0	0.7	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0.7	0	0	0	0	0	0

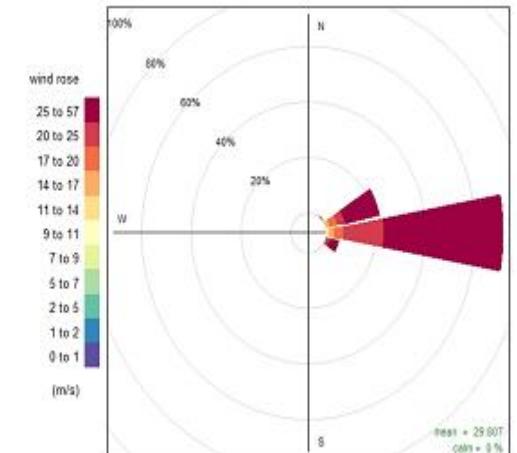


Chennai**August****200 hPa level**

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	0.4	0	0	0	0	0	0	0
12-33		0	0	0	0.4	0	0	0.4	0	0.4	0	0
34-56		0	0	0	0	0	0.4	0	0.7	1.5	0.7	0
57-78		0	0	0	0	0	0.4	2.2	4.1	6.7	11.6	9
79-101		0	0	0	0.4	0	0	3	3.7	10.4	17.9	19.4
102-123		0	0	0	0	0	0.7	0	0.4	0.4	1.9	0.7
124-146		0	0	0	0	0	0	0	0.7	0	0	0.4
147-168		0	0	0	0	0	0	0	0	0	0	0.4
168-191		0	0	0	0	0	0	0	0	0.4	0	0
192-213		0	0	0	0	0	0	0	0	0	0.4	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

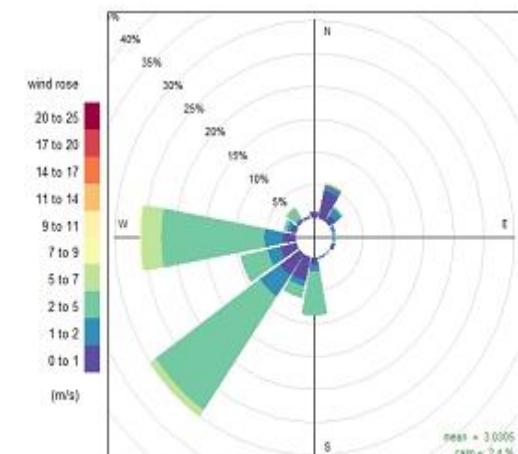
**Chennai****August****100 hPa level**

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
34-56		0	0	0	0	0	0	0	0	0	0.4	0
57-78		0	0	0	0	0	0.4	1.3	3.1	3.1	14.5	
79-101		0	0	0	0	0	0.9	0.4	2.2	3.5	16.2	48.2
102-123		0	0	0	0	0	0	0	0.4	0	1.3	3.9
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0

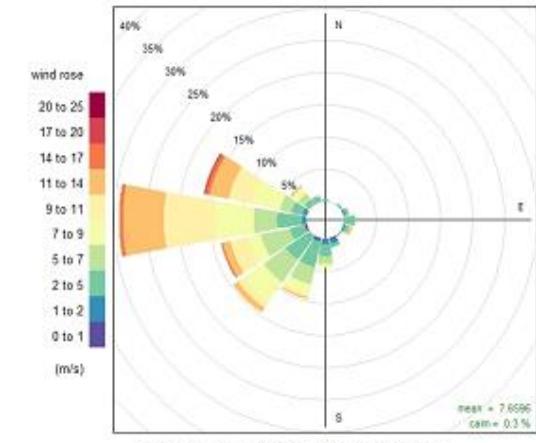


Chennai**September****1000 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
2	349-11	0.9	0	0	0	0	0	0	0	0	0	0
	12-33	4.3	0.9	0	0	0	0	0.3	0	0	0	0
	34-56	1.2	1.2	0.3	0	0	0	0	0	0	0	0
	57-78	0	0.6	0	0	0	0	0	0	0	0	0
	79-101	0	0.3	0.3	0	0	0	0	0	0	0	0
	102-123	0.6	0	0	0	0	0	0	0	0	0	0
	124-146	0	0	0.3	0	0	0	0	0	0	0	0
	147-168	0	0.3	0	0	0	0	0	0	0	0	0
	168-191	1.2	0.9	6.7	0	0	0	0	0	0	0	0
	192-213	3.7	0.9	1.8	0	0	0	0	0	0	0	0
	214-236	4	4	21	1.2	0	0	0	0	0	0	0
	237-258	2.7	2.1	4.6	0	0	0	0	0	0	0	0
	259-281	2.1	3	17.1	3.4	0.3	0	0	0	0	0	0
	282-303	0.9	0.6	0.6	0	0	0	0	0	0	0	0
	304-326	0.3	0.3	1.8	0.3	0	0	0	0	0	0	0
	327-348	0.3	0	0	0	0	0	0	0	0	0	0

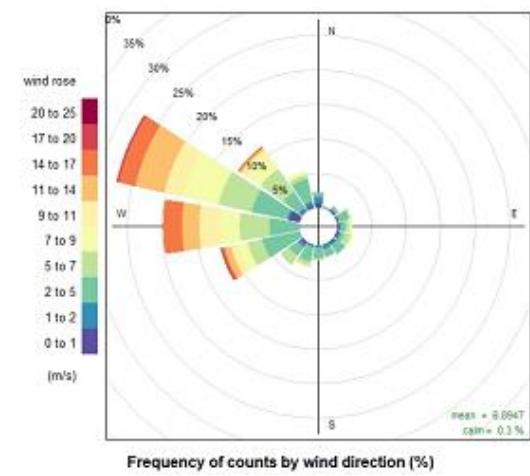
**Chennai****September****925 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
0	349-11	0	0	0.3	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	0.3	0	0	0	0	0	0	0	0
	57-78	0	0.3	0.6	0	0	0	0	0	0	0	0
	79-101	0	0	1.8	0	0	0	0	0	0	0	0
	102-123	0	0.3	0.6	0.3	0	0	0.3	0	0	0	0
	124-146	0	0	0.3	0	0	0	0	0	0	0	0
	147-168	0.3	0.6	0.6	0	0	0	0	0	0	0	0
	168-191	0	0.9	1.8	1.2	0.6	0	0	0	0	0	0
	192-213	0.3	0.3	4	2.7	1.5	0.6	0.3	0	0	0	0
	214-236	0	0	4.6	4.3	4	0.9	0.9	0	0	0	0
	237-258	0.3	0	2.4	4.6	2.1	2.7	1.2	0.3	0	0	0
	259-281	0	0.6	4	3.6	6.1	7.9	6.4	0.6	0	0	0
	282-303	0	0.6	1.8	1.8	4.6	3.6	3	0.6	0.3	0	0
	304-326	0	0	0.9	1.2	0.6	0.6	0.3	0	0	0	0
	327-348	0	0	0.9	0	0.3	0	0	0	0	0	0

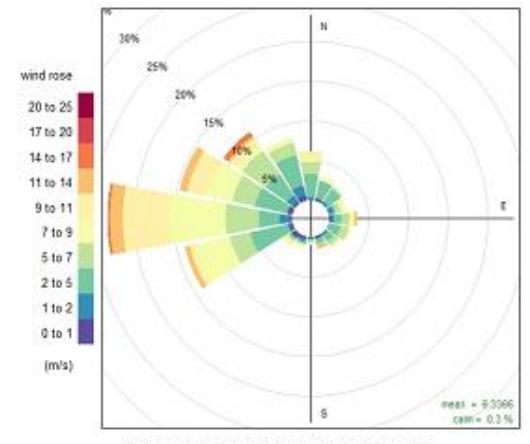


Chennai**September****850 hPa level**

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	0.6	0.9	0.6	0	0	0	0	0	0	0	0
12-33		0	0	0.3	0	0	0	0	0	0	0	0
34-56		0.3	0	0.6	0	0	0	0	0	0	0	0
57-78		0.3	0	1.5	0.3	0	0	0	0	0	0	0
79-101		0.3	0.3	0.6	0.6	0.3	0	0	0	0	0	0
102-123		0.3	0.3	0.6	0.9	0.3	0	0	0	0	0	0
124-146		0.3	0.3	1.5	0	0	0	0	0	0	0	0
147-168		0	0.6	1.2	0	0	0	0	0	0	0	0
168-191		0	0.3	1.5	0.3	0	0	0	0	0	0	0
192-213		0	0.3	2.2	0.6	0	0.3	0	0	0	0	0
214-236		0.3	0.6	1.5	1.5	0	0	0	0	0	0	0
237-258		0	0	5.6	2.2	1.5	0.9	0.9	0.3	0.3	0	0
259-281		0	0	4.3	4.3	2.8	3.1	2.5	2.8	0	0	0
282-303		1.5	0.3	5.3	5	5.3	2.8	4.3	2.5	0.3	0	0
304-326		0	0.6	2.8	4	2.5	0.9	0.3	0.3	0	0	0
327-348		0.3	0.6	3.4	0.6	0.6	0	0	0	0	0	0

**Chennai****September****700 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	2.9	1.6	0.3	1	0	0	0	0	0
12-33		0.3	0	2.3	0	0.6	0	0	0	0	0	0
34-56		0	0.3	1.9	0.3	0	0	0	0	0	0	0
57-78		0	0.6	0.3	0.6	0.6	0	0	0	0	0	0
79-101		0.3	0.3	1	1	0.6	0	0.3	0	0	0	0
102-123		0	0	1.6	1	0	0.3	0	0	0	0	0
124-146		0	0.3	1	0.6	0.3	0	0	0	0	0	0
147-168		0.3	0	0.6	0.3	0	0	0.3	0	0	0	0
168-191		0	0.3	0	0.3	0	0.3	0	0	0	0	0
192-213		0.3	0.3	0.3	0	0	0.3	0	0	0	0	0
214-236		0.6	0	0.3	0.3	0.6	0	0	0	0	0	0
237-258		0.3	0.3	4.9	2.6	4.5	0.6	0.6	0	0	0	0
259-281		0.3	1.3	2.6	4.2	7.1	5.8	1.6	0.3	0	0	0
282-303		0.6	0	4.2	2.9	3.2	2.6	1	0	0	0	0
304-326		0.3	1	3.2	3.6	1	1	0.3	0.6	0	0	0
327-348		0.6	1.3	3.9	1.6	0.6	0	0	0	0	0	0

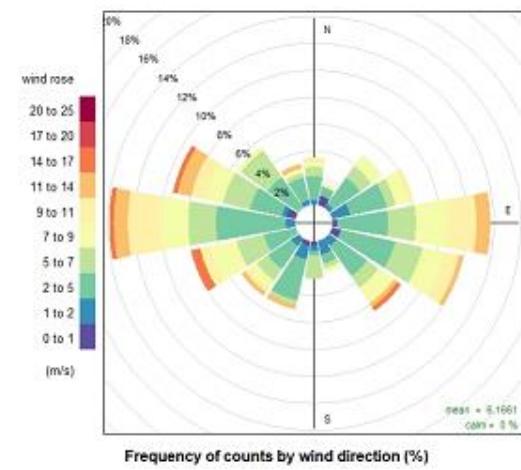


Chennai

September

500 hPa level

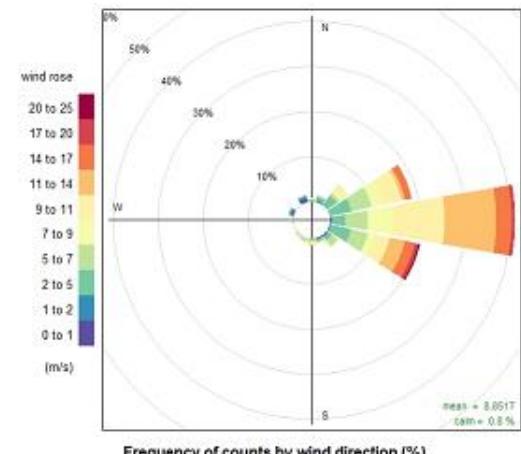
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	1.7	0.7	0.3	0.3	0	0	0	0	0
12-33		0.7	0	0.7	0	0.3	0	0	0	0	0	0
34-56		0	0.3	2.4	1	1	0	0	0	0	0	0
57-78		0	1.4	2.8	0.7	1	0.3	0	0	0	0	0
79-101		0.3	0	3.8	2.1	2.4	2.1	1	0	0	0	0
102-123		0.7	0	4.2	2.1	1.7	1	0.3	0	0	0	0
124-146		0	0.7	2.8	1	1.4	0	0.3	0.3	0	0	0
147-168		0	1	0.7	0.3	0.3	0	0	0	0	0	0
168-191		0.3	0.3	0.3	1.7	0	0	0	0	0	0	0
192-213		0.3	1	3.1	0.3	0	0	0.3	0	0	0	0
214-236		0	0.7	2.1	1	0.7	0.3	0.3	0	0	0	0
237-258		0	0	2.4	2.1	2.1	0.7	0	0.7	0	0	0
259-281		0	0.7	5.2	2.1	2.1	2.4	1	0.3	0	0	0
282-303		0.7	0.3	2.4	2.1	1.4	1	1	0.3	0	0	0
304-326		0	0	2.8	2.4	0.3	0	0	0	0	0	0
327-348		0	0.3	1.7	0.3	0.3	0	0.3	0	0	0	0

Chennai

September

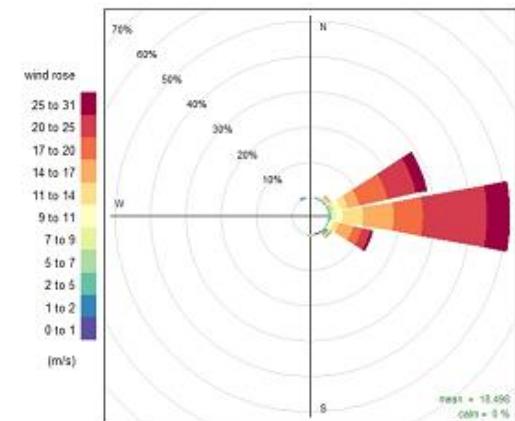
300 hPa level

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	0.4	0	0.4	0	0	0	0	0	0
12-33		0	0.4	0.8	0.4	0	0	0	0	0	0	0
34-56		0	0	2.7	0.8	0.8	1.5	0	0	0	0	0
57-78		0	0	4.9	4.6	2.7	4.2	0.8	1.5	0	0	0
79-101		0.4	0	3	4.9	5.7	11.4	11.4	3.4	0.8	0	0
102-123		0	0.4	4.6	3.8	1.9	3	3.4	2.3	0.8	0.4	0
124-146		0.4	0	1.1	1.5	0.4	0	0	0	0	0	0
147-168		0	0.4	0.4	0	0	0	0.4	0	0	0	0
168-191		0	0	0.4	0.4	0	0.4	0	0	0	0	0
192-213		0	0	0	0.8	0.4	0	0	0	0	0	0
214-236		0	0	0	0	0	0.4	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0.4	0	0	0.4	0	0	0	0	0
282-303		0.4	0.4	0.4	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0.8	0.4	0.4	0	0	0	0	0	0	0	0

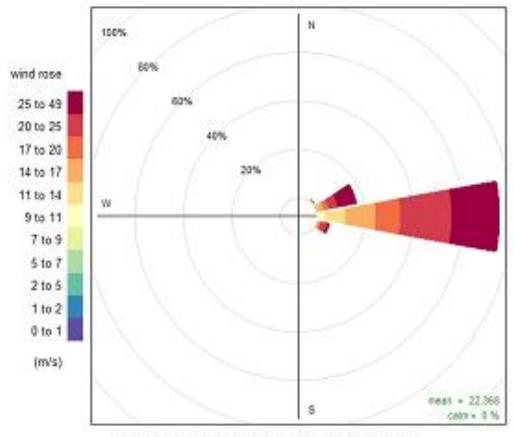


Chennai**September****200 hPa level**

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
12-33		0	0	0.4	0	0	0	0	0	0	0	0
34-56		0	0	0.4	0	0	0	0.8	0.8	0	0	0
57-78		0	0	0.4	0.8	0.8	1.6	2.1	3.3	8.2	8.2	3.3
79-101		0	0	0.8	0	1.2	2.1	5.8	8.6	8.2	18.1	6.6
102-123		0	0	0.4	0	0	1.2	1.6	4.1	2.5	2.5	0.8
124-146		0	0	1.2	0.4	0	0	0.4	0	0.4	0	0
147-168		0	0	0	0	0	0	0	0	0	0.4	0
168-191		0	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	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	0.4	0	0	0	0	0	0	0	0	0

**Chennai****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
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0.5	0	0	0	0.5	0	0
57-78		0	0	0.5	0	0.5	0	0	2.2	2.2	3.8	8.1
79-101		0	0	0	0	3.2	8.6	12.4	10.3	21.1	20	0
102-123		0	0	0	0	0.5	0	1.1	0.5	2.7	1.1	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	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

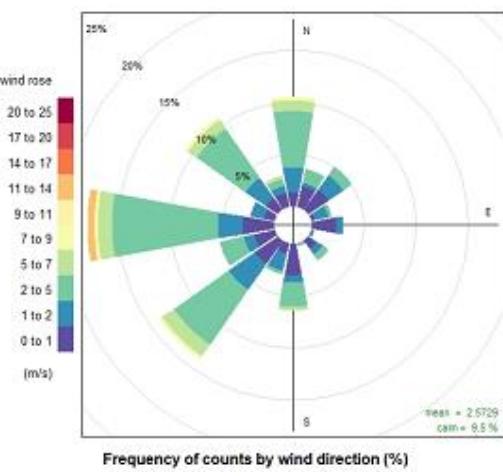


Chennai

October

1000 hPa level

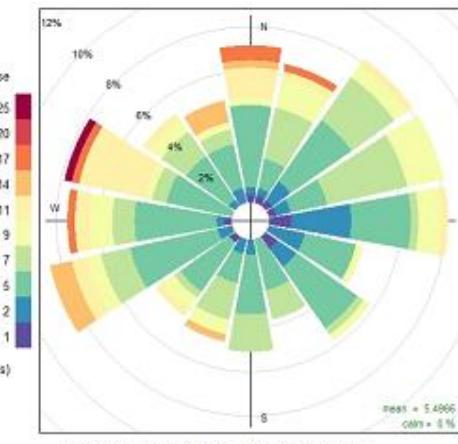
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	9	1.4	2.4	5.4	1	0.3	0	0	0	0	0	0
12-33		2	0.3	1.4	0	0	0	0	0	0	0	0
34-56		2.4	1.7	1	0	0	0	0	0	0	0	0
57-78		0.3	1.4	0.3	0	0	0	0	0	0	0	0
79-101		2.4	0.7	0	0	0	0	0	0	0	0	0
102-123		0	0.3	0	0	0	0	0	0	0	0	0
124-146		1	0.7	0.7	0	0	0	0	0	0	0	0
147-168		0	0	0.3	0	0	0	0	0	0	0	0
168-191		3.1	0.7	2.4	0.3	0	0	0	0	0	0	0
192-213		1	1.7	0.3	0	0	0	0	0	0	0	0
214-236		2.7	3.1	6.4	1.4	0.3	0	0	0	0	0	0
237-258		2	1	2.4	0	0	0	0	0	0	0	0
259-281		3.1	2.4	10.2	1.4	0.3	0	0.7	0	0	0	0
282-303		1	1.4	0	0	0	0	0	0	0	0	0
304-326		1.4	2.4	5.8	1	0.3	0	0	0	0	0	0
327-348		1.4	0.7	0.7	0.3	0	0	0	0	0	0	0

Chennai

October

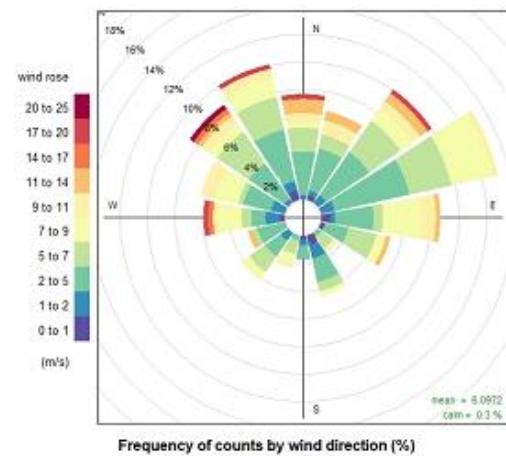
925 hPa level

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	0.3	3.7	0	0.3	1.4	0.3	0.7	0	0	0
12-33		0.3	0.3	1.4	2.4	1.4	0.3	0	0.3	0	0	0
34-56		0.3	1	3.4	2.4	0.7	0.3	0	0	0	0	0
57-78		0.3	0.7	1.7	3.7	1.7	0	0	0	0	0	0
79-101		1	2.7	2.7	0.3	1	0.3	0	0	0	0	0
102-123		0	1.7	2.4	0	0.3	0	0	0	0	0	0
124-146		0.7	1	3.4	0.3	0.3	0	0	0	0	0	0
147-168		0	0	2.4	1.4	0	0	0	0	0	0	0
168-191		0	0.7	2.7	1.7	0	0	0	0	0	0	0
192-213		0	0.7	1.4	1.7	0.7	0	0.3	0	0	0	0
214-236		0.3	0	2.7	0.3	0.7	0.3	0	0	0	0	0
237-258		0	0.7	4.1	1.4	0.7	0.7	1	0	0	0	0
259-281		0.3	0.3	3.7	1	1	0.7	0	0.3	0	0	0
282-303		0	0	3.1	0.7	0.3	3.1	0	0.3	0	0.3	0
304-326		0	0.3	2.4	1.4	0.7	0.3	0	0	0	0	0
327-348		0	0.7	2	0.7	0.3	0	1	0	0	0	0

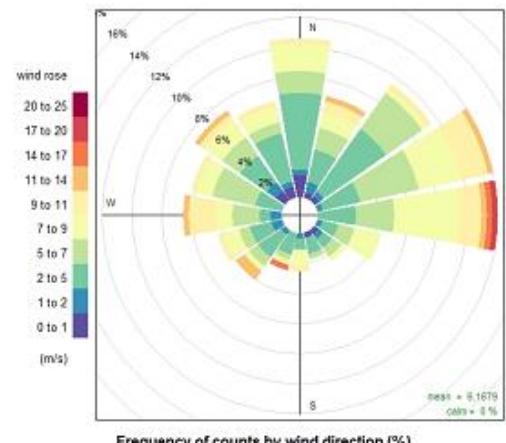


Chennai**October****850 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	3.1	1.7	0.3	0.7	1	0	0.3	0	0
12-33		0.3	0.3	3.1	1	0	1	0.7	0	0	0	0
34-56		0	0.7	3.8	2.8	1	0.7	0.7	0	0.3	0	0
57-78		0	1	5.6	3.1	3.1	0.3	0	0	0	0	0
79-101		0.7	0.3	2.8	0.7	2.8	1	0.3	0	0	0	0
102-123		0.3	0	1.7	2.1	0.7	0	0.3	0	0	0	0
124-146		0	0	0.3	1	0	0.3	0	0	0	0	0
147-168		0.7	1	1.7	0.7	0.3	0	0	0	0	0	0
168-191		0.3	0.3	1	0	0	0	0	0	0	0	0
192-213		0	0	0.3	1	0.7	0.3	0	0	0	0	0
214-236		0	0.7	1.4	1.4	0.7	0	0	0	0	0	0
237-258		0	0	2.1	0.3	0	0	0.3	0	0	0	0
259-281		0.3	1	1	0.7	1.7	0.3	0	0.3	0.3	0	0
282-303		0	1	2.1	0.3	1.7	1	0	0	0	0	0
304-326		0	0.3	3.1	2.8	0.7	0.7	0.3	0.3	0	0.3	0
327-348		0.7	0.7	3.8	2.4	1.4	0.7	0	0	0.3	0	0

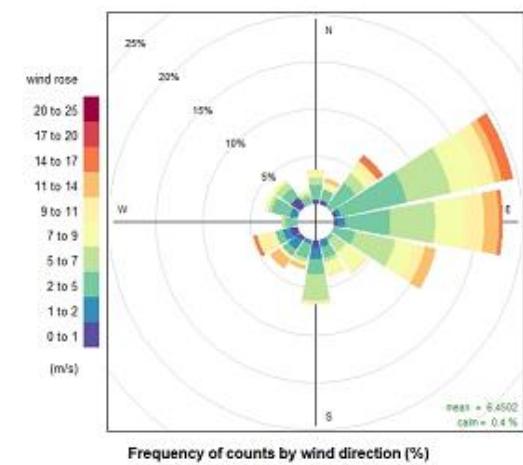
**Chennai****October****700 hPa level**

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	1.5	0.4	5.1	1.5	1.8	0.4	0	0	0	0	0
12-33		0.4	0.7	2.2	1.5	1.1	0.7	0.4	0	0	0	0
34-56		0.4	0.4	5.1	2.9	0.4	0.4	0	0	0	0	0
57-78		0	0.4	2.6	4	2.9	1.8	0.4	0	0	0	0
79-101		0	0	2.6	2.6	4.4	1.5	0.4	0.4	0.4	0	0
102-123		0	0.4	1.1	1.1	1.8	0	0	0	0	0	0
124-146		0.4	0.4	0.7	0.7	0.4	0	0	0	0	0	0
147-168		0.4	0	1.1	0.4	0	0	0	0	0	0	0
168-191		0	0.4	0.7	0	1.1	0.4	0	0	0	0	0
192-213		0	0	1.5	0.4	0	0.4	0	0.4	0	0	0
214-236		0	0.4	1.8	0.7	0.4	0	0.7	0	0	0	0
237-258		0	0.7	1.5	0.7	1.1	0.4	0	0	0	0	0
259-281		0	0.7	0.7	1.8	1.1	1.8	0.4	0	0	0	0
282-303		0	0	1.8	2.9	1.1	0.4	0	0	0	0	0
304-326		0.7	0.7	2.2	1.5	1.5	0.4	0.4	0	0	0	0
327-348		0.7	0.4	3.3	0.7	1.1	0.4	0	0	0	0	0

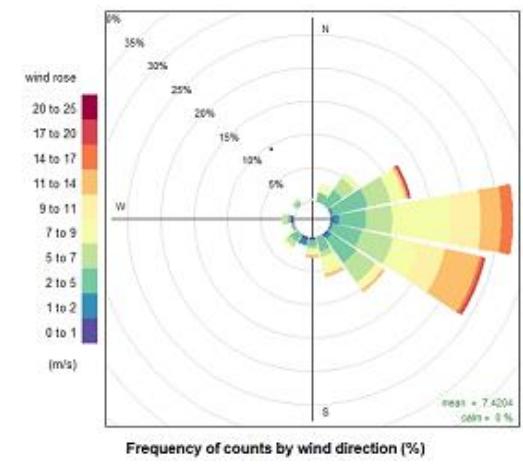


Chennai**October****500 hPa level**

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	0.4	0	1.6	0.8	0.4	0.4	0	0	0	0	0
12-33		0.4	0	1.2	0	0.4	0.4	0.4	0	0	0	0
34-56		0	0	3.2	1.2	0.8	0.8	0	0.8	0	0	0
57-78		0.4	0.4	7.2	4.8	3.2	1.6	0.8	1.2	0	0	0
79-101		0.4	0.8	4.8	4.8	3.2	2	1.6	0.4	0	0	0
102-123		0	0	2.4	4.4	2	1.2	1.2	0	0	0	0
124-146		0	0	0.4	1.6	2.4	0.4	0	0	0	0	0
147-168		0	0.8	1.2	0.4	1.2	0.4	0	0	0	0	0
168-191		0.8	1.2	1.6	2.8	0	0.4	0	0	0	0	0
192-213		0	0.4	1.6	0.4	0	0.4	0.4	0	0	0	0
214-236		0.4	1.2	0.8	0	0.4	0	1.2	0	0	0	0
237-258		0.8	0.8	0.8	0	0.4	1.6	0	0.4	0	0	0
259-281		0	0	1.2	0.4	0	0	0	0	0	0	0
282-303		0	0.8	2	0.4	0.4	0	0	0	0	0	0
304-326		1.2	0	1.2	0.8	0.4	0	0	0	0	0	0
327-348		0	0	0.8	0.4	0.4	0	0	0	0	0	0

**Chennai****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	0.4	0	0	0	0	0
12-33		0	0	1.3	0	1.3	0	0	0	0	0	0
34-56		0	0	2.7	2.2	0.4	0.4	0	0	0	0	0
57-78		0	0.4	5.3	3.5	1.8	0.4	0.4	0	0.4	0	0
79-101		0.4	0.9	4	4	8.8	4.4	3.1	1.8	0	0	0
102-123		0	0.4	4.4	4.9	4	4	5.3	0.4	0.4	0	0
124-146		0.4	0.4	4.4	3.5	0.9	0.4	0.4	0	0	0	0
147-168		0	0	2.2	0.9	2.2	0.4	0.4	0	0	0	0
168-191		0.4	0	0.9	0.4	0.9	0	0.4	0	0	0	0
192-213		0.4	0.9	0	0	0	0	0	0	0	0	0
214-236		0	0	1.3	0.9	0.4	0	0	0	0	0	0
237-258		0	0	0.4	0	0.4	0	0	0	0	0	0
259-281		0.4	0	0.4	0.9	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	0.4	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0

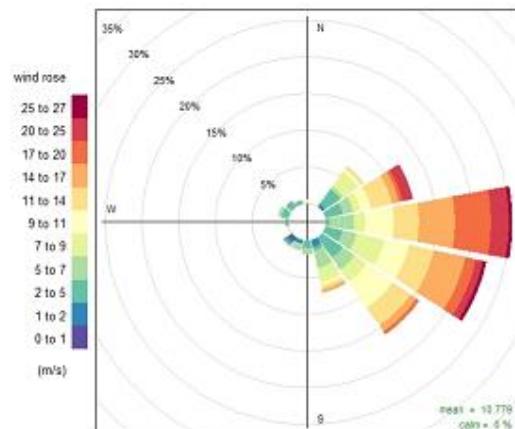


Chennai

October

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0.5	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0.5	2.5	0.5	2.5	0.5	0.5	0	0	0	0
57-78		0	0	2.5	1.5	1	1.5	2.9	1	0.5	1.5	0
79-101		0	0	0.5	3.4	1.5	3.9	3.4	4.9	4.9	2.5	0.5
102-123		0	0	2.5	2	3.9	3.4	3.4	4.4	1.5	1	0.5
124-146		0	0	3.4	2	2	4.4	2.9	1	0.5	0	0
147-168		0	1	0.5	2.5	2	0.5	0.5	0.5	0	0	0
168-191		0	0	1	1	0	0	0	0	0	0	0
192-213		0	0.5	0	1	0	0	0	0	0	0	0
214-236		0.5	0.5	0.5	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0.5	0	0	0	0	0
259-281		0	0	0.5	0	0	0	0	0	0	0	0
282-303		0	0	1	0.5	0	0	0	0	0	0	0
304-326		0	0	1	0	0	0	0	0	0	0	0
327-348		0	0	0.5	0	0	0	0	0	0	0	0

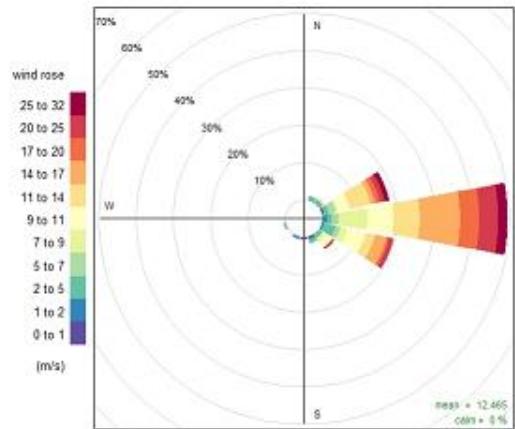


Chennai

October

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	1.3	0	0	0	0	0	0	0	0
34-56		0	0	1.3	0	0.6	0	0	0	0	0	0
57-78		0.6	0	1.3	1.9	0.6	3.2	5.7	1.3	1.3	1.3	1.3
79-101		0	1.3	1.3	1.9	7.6	7	7	10.8	5.1	5.1	2.5
102-123		0	0.6	3.2	1.3	1.9	5.1	2.5	3.2	0.6	1.3	0
124-146		0	0	1.3	0	1.3	1.9	0	0	0	0.6	0
147-168		0.6	0	1.3	0	0	0	0	0	0	0	0
168-191		0.6	0	0	0	0	0	0	0	0	0	0
192-213		0	0.6	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	0.6	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

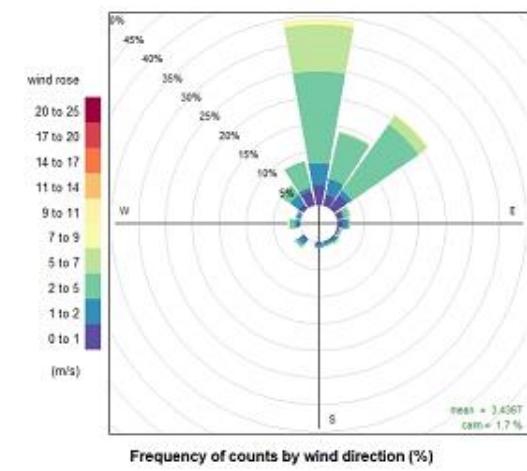


Chennai

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	2	3.7	4	17	8.7	0.7	0.3	0	0	0	0	0
12-33		2	3	8.7	0.3	0	0	0	0	0	0	0
34-56		3	1	15	2	0.3	0	0	0	0	0	0
57-78		1	0.3	1	0.3	0	0	0	0	0	0	0
79-101		1	1	0.3	0	0	0	0	0	0	0	0
102-123		0.3	0	0.7	0	0	0	0	0	0	0	0
124-146		0.3	0.7	0	0.3	0	0	0	0	0	0	0
147-168		0	0.7	0.3	0	0	0	0	0	0	0	0
168-191		0.3	0.7	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0.3	1	0.7	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0.3	0.7	1	0	0.3	0	0	0	0	0	0
282-303		0	0.7	0.3	0	0	0	0	0	0	0	0
304-326		1	2	2	0.3	0	0	0	0	0	0	0
327-348		2.7	0.7	5	0	0	0	0	0	0	0	0

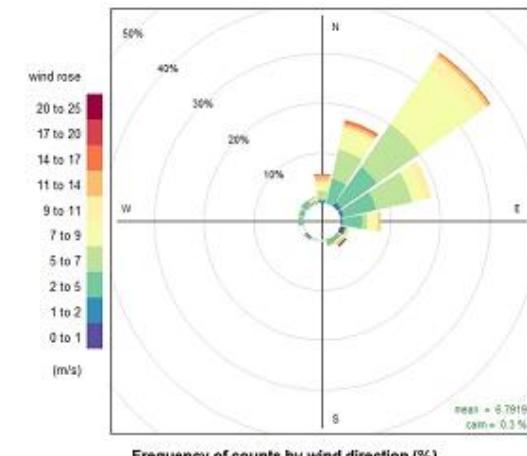


Chennai

November

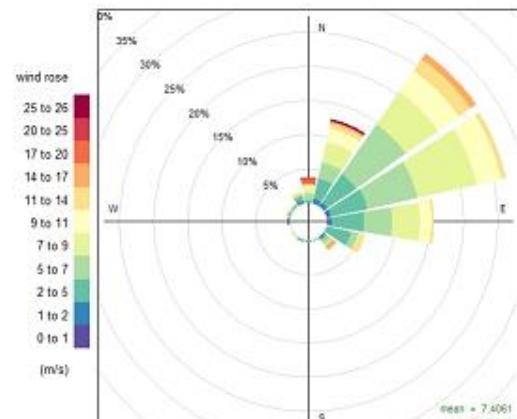
925 hPa level

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	0	0.3	0.3	1.7	1	1	1	0.3	0	0	0
12-33		0	0	5	6	4	0.7	0.7	0.7	0	0	0
34-56		0.3	0.7	8.7	10.4	13.8	2.7	0.7	0.3	0	0	0
57-78		0.3	0.3	6.7	7.4	2.3	1.7	0	0	0	0	0
79-101		0.3	0	4	1	1.7	0.7	0.3	0	0	0	0
102-123		1	0	0.3	0.3	0.3	0	0	0	0	0	0
124-146		0	0	1	0	0.3	0	0.7	0	0	0.3	0
147-168		0	0	1	0	0	0	0.3	0	0	0	0
168-191		0	0	0	0	0	0.3	0	0	0	0	0
192-213		0	0	0	0.3	0	0	0	0	0	0	0
214-236		0.3	0	0.3	0	0.3	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	1	0	0	0	0	0	0	0	0
282-303		0	0	1	0	0	0.3	0	0	0	0	0
304-326		0	0	1.3	0	0	0	0	0	0	0	0
327-348		0	0	0.3	0.3	0	0.3	0.3	0	0	0	0

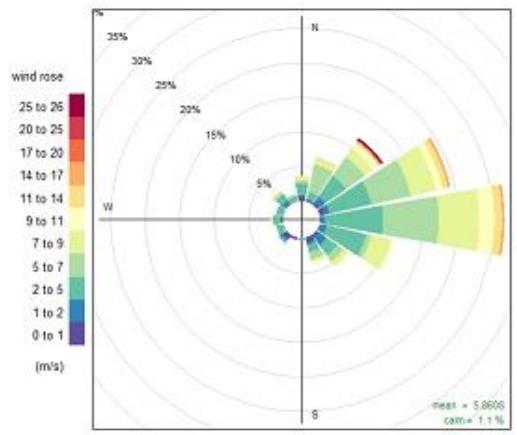


Chennai**November****850 hPa level**

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	0	0	0.3	1	0.7	0.3	0.3	0	0.7	0.3	0
12-33		0	0.7	3.1	2.4	3.1	2	0.7	0.3	0	0	0.3
34-56		0	0.7	5.1	8.9	5.8	3.8	2	1	0	0	0
57-78		0.3	0.3	5.5	7.5	8.9	3.8	0.7	0	0	0	0
79-101		0.3	0.3	4.8	4.1	4.1	1.7	0.3	0	0	0	0
102-123		0	0	3.8	1	0.3	0	0.7	0	0	0	0
124-146		0	0.3	0.3	0.7	0.3	0	0	0.7	0	0	0
147-168		0	0	0	0.3	0	0	0	0	0	0	0
168-191		0	0	0.3	0	0	0	0	0	0	0	0
192-213		0	0	0.3	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0.3	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0.3	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0.3	0	0.3	0	0	0	0	0	0
304-326		0	0	0.3	0	0	0.3	0	0	0	0	0
327-348		0	0.3	0.7	0.3	0.3	0	0	0	0	0	0

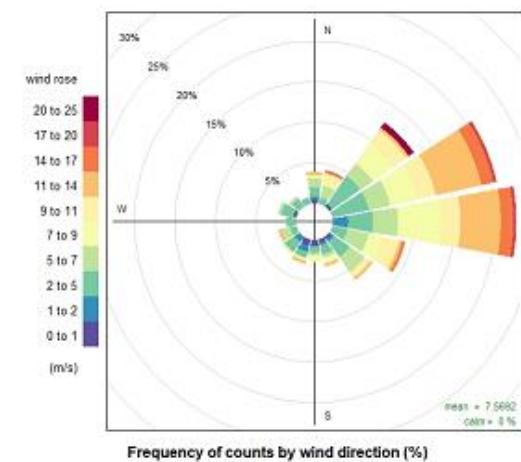
**Chennai****November****700 hPa level**

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	0.7	0	1.8	0.4	0.7	0	0	0	0	0	0
12-33		0	0.4	1.1	4	0.7	0	0.4	0	0	0	0
34-56		0.4	1.1	3.7	3.3	1.5	1.1	0	0.4	0	0	0.4
57-78		0.7	0.7	6.2	5.9	3.7	1.1	0.7	0.4	0	0	0
79-101		0.4	0.4	8.4	8.1	5.9	2.2	1.1	0.4	0	0	0
102-123		0	1.1	5.9	0.7	2.9	0.4	0	0	0	0	0
124-146		0.4	1.5	1.8	1.1	0.7	0.4	0	0	0	0	0
147-168		0.7	0.4	1.1	1.1	0.4	0.4	0	0	0	0	0
168-191		0	0	0.4	0	0	0	0	0	0	0	0
192-213		0.4	0	0	0	0	0	0	0	0	0	0
214-236		0.7	0.4	0.4	0	0	0	0	0	0	0	0
237-258		0	0	1.1	0	0	0	0	0	0	0	0
259-281		0.4	0	1.1	0	0	0.4	0	0	0	0	0
282-303		0	0	1.1	0	0	0	0	0	0	0	0
304-326		0	0.7	1.1	0.4	0.4	0	0	0	0	0	0
327-348		0	0	0.7	0.4	0	0	0	0	0	0	0

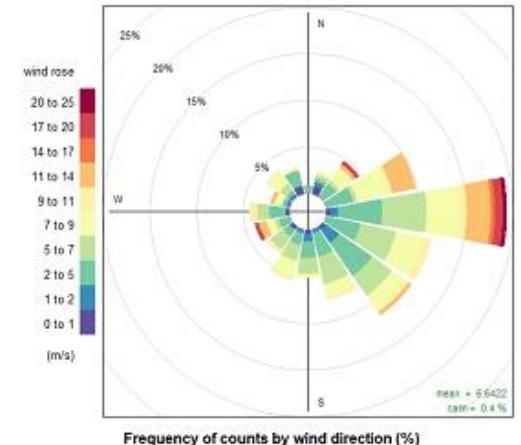


Chennai**November****500 hPa level**

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	0.4	0.4	1.2	1.2	0.4	0	0.4	0	0	0	0
12-33		0	0	0.8	1.5	0.4	1.2	0	0.4	0	0	0
34-56		0.4	0	4.2	1.9	3.1	1.9	0.4	0	0	0.8	0
57-78		0	0	4.6	2.7	3.5	2.3	5.8	1.5	0.4	0	0
79-101		0	1.9	3.1	3.1	5.4	2.3	5	1.5	0.4	0	0
102-123		0	0	1.9	2.7	1.9	1.9	0.4	0.4	0	0	0
124-146		0.4	0.4	2.3	2.3	0	0.8	0.4	0	0	0	0
147-168		0.4	0.4	1.2	0.4	0.4	0	0.4	0	0	0	0
168-191		0.8	0	0.8	0.4	1.2	0	0	0	0	0	0
192-213		0.8	0.8	0.8	0	0	0.4	0.4	0	0	0	0
214-236		0	0.8	1.5	0	0.4	0	0	0	0	0	0
237-258		0	0	0.8	1.2	0	0	0.4	0	0	0	0
259-281		0	0	1.2	0	0	0	0	0	0	0	0
282-303		0.4	0	1.5	0.4	0	0	0	0	0	0	0
304-326		0	0	1.2	0.4	0	0	0	0	0	0	0
327-348		0	0	0.8	0	0	0	0	0	0	0	0

**Chennai****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	0	0.9	0	0	0	0	0	0	0	0
12-33		0.9	0.4	0.4	0.4	0.4	0	0	0	0	0	0
34-56		0	0	1.7	0.4	1.7	0	0.4	0	0.4	0	0
57-78		0	0	3	0.4	3.4	0.4	2.6	0	0	0	0
79-101		0.4	0.9	4.7	4.7	3.4	0.9	2.6	0.4	0.9	0.4	0
102-123		0	0	3.9	3.9	3	0.9	0	0	0	0	0
124-146		0.4	1.7	4.3	2.6	1.7	0.4	0.4	0	0	0	0
147-168		0	0	2.6	2.2	1.3	0.4	0	0	0	0	0
168-191		0.4	1.3	1.7	2.6	0.4	0	0	0	0	0	0
192-213		0	0.4	1.3	1.7	1.7	0.4	0	0	0	0	0
214-236		0.4	0	0.9	1.7	0	0.4	0	0	0	0	0
237-258		0	0	1.3	0.4	0.9	0	0.9	0	0.4	0	0
259-281		0.4	0	1.7	1.3	0	0.9	0	0	0	0	0
282-303		0	0.4	0.4	0	0.9	0	0.4	0	0	0	0
304-326		0	0.4	0.4	0.9	1.3	0.4	0	0	0	0	0
327-348		0.9	0	1.7	0	0.4	0	0	0	0	0	0

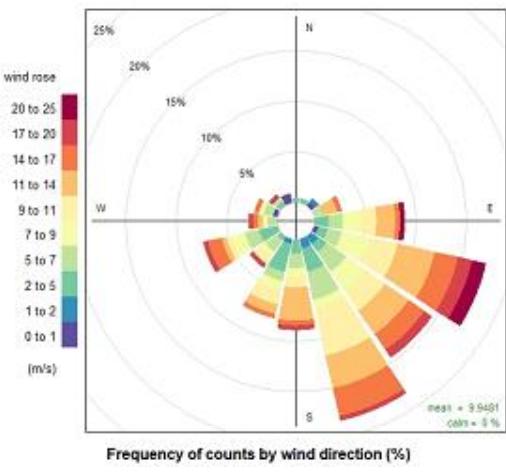


Chennai

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	0.5	0	0	0	0	0	0	0	0
12-33		0	0	0.5	0	0	0	0	0	0	0	0
34-56		0.5	0.5	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0.9	0	0	1.4	0.5	0	0	0
79-101		0	0	1.4	1.4	1.9	1.4	1.9	0.5	0	0.5	0
102-123		0.5	0	0.9	1.4	2.8	2.8	3.8	2.4	1.4	1.4	0
124-146		0	0.9	0.9	2.4	2.4	2.4	2.8	1.9	0.9	0	0
147-168		0	0.9	1.4	2.4	0.9	4.2	3.3	2.4	0.5	0	0
168-191		0	0	2.4	1.9	0.9	1.4	3.3	0.9	0.5	0	0
192-213		0	0.5	2.8	0.9	0.9	1.4	0.9	0.5	0	0	0
214-236		0	0	0.5	1.4	0.5	0.9	0	0	0.5	0	0
237-258		0	0	1.9	1.4	1.4	0.5	0.5	1.4	0.5	0	0
259-281		0	0	0	0.9	0.5	0	0.5	0.5	0.5	0	0
282-303		0.5	0	0	0.9	0.5	0	0	0.5	0	0	0
304-326		0	0	0.5	0.5	0	0	0	0	0.5	0	0
327-348		0.9	0	0	0	0	0	0	0	0	0	0

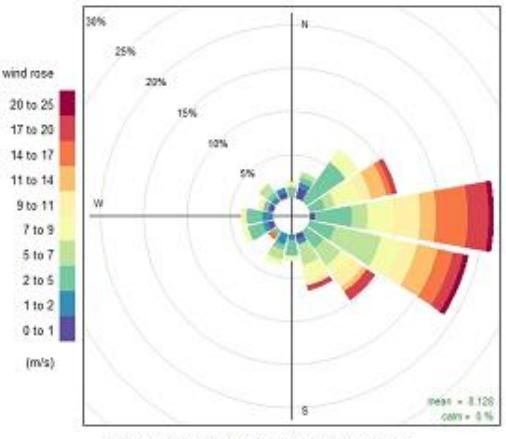


Chennai

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	1.2	0	0	0.6	0	0	0	0	0
12-33		1.2	0.6	0.6	0.6	0	0	0	0	0	0	0
34-56		0	0	5.5	0	1.8	0	0	0	0	0	0
57-78		0	0	1.8	1.2	3	1.2	1.8	0.6	0.6	0	0
79-101		0.6	0	4.3	1.8	3	3	1.8	3.7	2.4	0.6	0
102-123		0	0	3	5.5	2.4	1.8	2.4	1.8	1.2	0.6	0
124-146		0	0	2.4	2.4	1.2	1.8	0.6	0	1.2	0	0
147-168		0	0.6	0	2.4	1.8	0.6	0	0	0.6	0	0
168-191		0.6	0.6	1.8	0	0.6	0	0	0	0	0	0
192-213		0	1.2	0.6	1.2	0.6	0	0	0	0	0	0
214-236		0	0	0.6	0	0	0	0	0.6	0	0	0
237-258		0.6	0.6	1.8	0	0.6	0	0	0	0	0	0
259-281		0	1.2	1.8	0	0	0.6	0	0	0	0	0
282-303		0.6	0	0.6	0	0	0.6	0	0	0	0	0
304-326		0	0.6	0.6	1.2	0	0	0	0	0	0	0
327-348		0.6	0.6	0	0	0	0	0	0	0	0	0

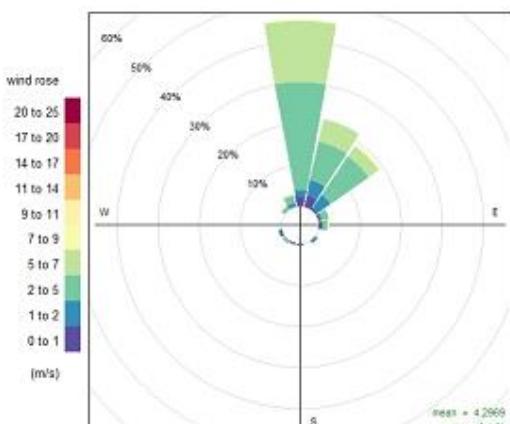


Chennai

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	0	2.2	1.7	26.2	14.8	0.4	0	0	0	0	0	0
12-33		2.6	3.9	9.6	5.7	0	0	0	0	0	0	0
34-56		0.4	3.9	11.4	3.1	0.4	0	0	0	0	0	0
57-78		0.4	0.4	1.7	0	0	0	0	0	0	0	0
79-101		0.9	0	1.3	0	0.4	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0.9	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0.4	0	0	0	0	0	0	0	0	0	0
192-213		0.4	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0.9	0	0	0	0	0	0	0	0
237-258		0.4	0.4	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	0.9	0	0	0.4	0	0	0	0	0
327-348		0	0.9	1.7	0.4	0	0	0	0	0	0	0

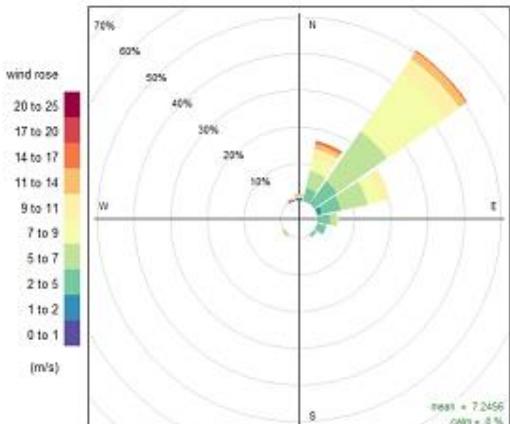


Chennai

December

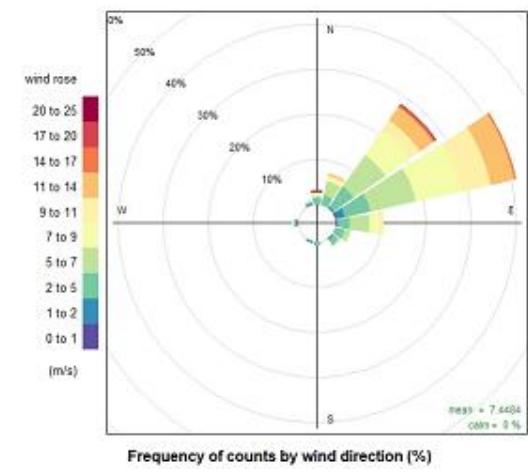
925 hPa level

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	0.4	0	0	0.9	0	0	0.4	0	0	0	0
12-33		0	0	3.5	4.8	3.5	2.6	1.3	0.9	0	0	0
34-56		0	0	7.5	16.7	19.3	4.8	2.2	0.4	0	0	0
57-78		0	1.3	5.3	7.5	3.9	2.2	0	0	0	0	0
79-101		0	0	3.5	1.8	0	0.4	0	0	0	0	0
102-123		0	0	2.6	0	0	0	0	0	0	0	0
124-146		0	0	0.9	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	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	0.4	0	0	0

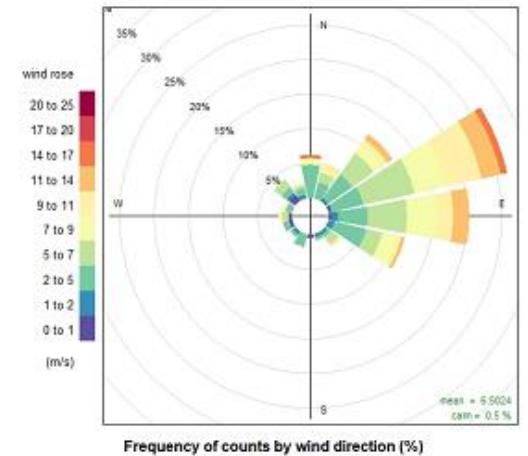


Chennai**December****850 hPa level**

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	1.3	0.4	0.4	0.4	0	0	0	0.4	0
12-33		0	0	2.2	3.1	0.9	0.4	0.4	0	0	0	0
34-56		0	0.4	5.4	8.5	6.7	2.7	3.6	0.4	0.4	0	0
57-78		0.4	1.8	5.8	10.3	10.3	6.7	5.4	0.4	0	0	0
79-101		0.4	0	2.7	4.5	2.2	0.9	0	0	0	0	0
102-123		0	0	2.2	1.3	0	0	0	0	0	0	0
124-146		0	0.4	1.3	0.4	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.9	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	0.4	0.4	0	0.4	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	0.4	0	0.4	0	0	0	0	0	0	0

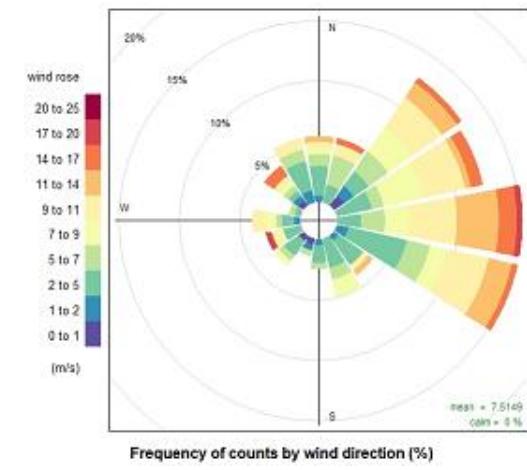
**Chennai****December****700 hPa level**

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	4.7	0	0.9	0	0	0.5	0	0	0
12-33		0	0	2.4	1.4	0.5	0.9	0	0	0	0	0
34-56		0	0.5	4.3	3.8	1.4	0.9	0.9	0	0	0	0
57-78		0.5	0	4.7	7.6	4.7	5.2	2.8	0.9	0	0	0
79-101		0.5	0.9	4.3	5.7	4.3	2.4	2.4	0	0	0	0
102-123		0	0.9	4.7	2.4	2.4	0.5	0.5	0	0	0	0
124-146		0	0.5	0.5	1.4	0	0.5	0	0	0	0	0
147-168		0	0.5	0.5	0	0	0	0	0	0	0	0
168-191		0.5	0	0	0	0	0	0	0	0	0	0
192-213		0	0	1.9	0	0	0	0	0	0	0	0
214-236		0	0.5	0.5	0	0	0	0	0	0	0	0
237-258		0.5	0	0.9	0	0	0	0	0	0	0	0
259-281		0.5	0	0	0.9	0.5	0	0	0	0	0	0
282-303		0	0	0.9	0	0.5	0	0	0	0	0	0
304-326		0.9	0.5	0.9	1.4	0	0	0	0	0	0	0
327-348		0	0.5	0.9	0.5	0.5	0	0	0	0	0	0

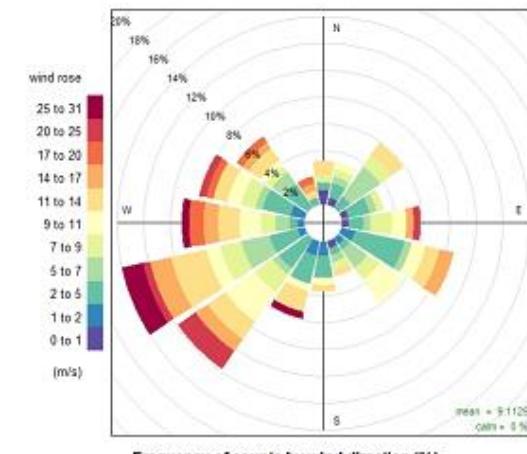


Chennai**December****500 hPa level**

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	0.5	2.5	1	0.5	0.5	0.5	0	0	0	0
12-33		0	0	1.5	2.5	0	1	0	0.5	0	0	0
34-56		1	1	1.5	2	2.5	3	1.5	0.5	0	0	0
57-78		0	0	3	1	3.5	3.5	0.5	1	0	0	0
79-101		0	0	2	2	2	4	3.5	1.5	0.5	0	0
102-123		0	1	5	2	1.5	3.5	2	0.5	0	0	0
124-146		0	0.5	2.5	0	0	0.5	0.5	0	0	0	0
147-168		0	0	1.5	1	1.5	0	0	0	0	0	0
168-191		0	0.5	2.5	0.5	0	0	0	0	0	0	0
192-213		0.5	0.5	0	0.5	0	0	0	0	0	0	0
214-236		0.5	0	1.5	0.5	0.5	0	0	0	0	0	0
237-258		0	0	1.5	0	0.5	0.5	0	0	0.5	0	0
259-281		0	0.5	1	0.5	1	1	0	0	0	0	0
282-303		0	0	0.5	0.5	0	0	0	0	0	0	0
304-326		0.5	0.5	0.5	0.5	0.5	0	1	0	0	0	0
327-348		0	1	2.5	1	0	1	0	0	0	0	0

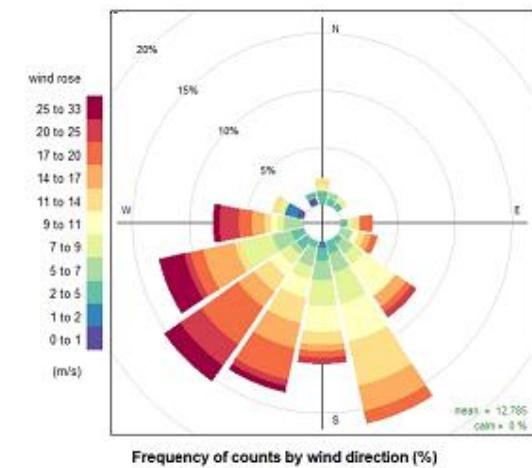
**Chennai****December****300 hPa level**

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	1.1	0	0.5	0	0.5	0	1.1	0	0	0	0
12-33		0.5	0	1.1	0.5	0.5	0.5	0	0	0	0	0
34-56		0	0	1.1	2.7	1.1	0	1.1	0	0	0	0
57-78		0.5	0	1.6	0.5	0.5	0	0	0	0	0	0
79-101		0.5	0	1.1	0.5	1.6	1.1	0	0.5	0	0.5	0
102-123		0	1.1	3.8	0.5	0	1.1	1.1	1.1	0	0	0
124-146		0	0.5	0.5	1.6	1.1	2.2	0	0	0	0	0
147-168		0.5	0	0.5	0.5	0.5	0	0.5	0	0	0	0
168-191		0	1.1	1.6	0	0	0.5	0.5	0	0	0	0
192-213		0	1.1	2.2	0	0	0.5	1.6	0	0	0	0.5
214-236		0	0	2.7	0.5	1.6	2.7	1.6	1.1	0	1.6	0
237-258		0	0.5	2.2	2.2	1.6	1.1	2.7	1.6	0	0.5	1.6
259-281		0	0.5	0.5	1.1	1.1	1.6	1.6	1.1	1.1	0	0.5
282-303		0	1.1	2.2	0.5	1.1	1.1	1.1	0	0.5	0.5	0
304-326		0	0	2.2	1.1	0.5	0.5	1.1	0.5	0.5	0	0
327-348		0	0	0.5	0	0	0	0.5	0.5	0.5	0	0

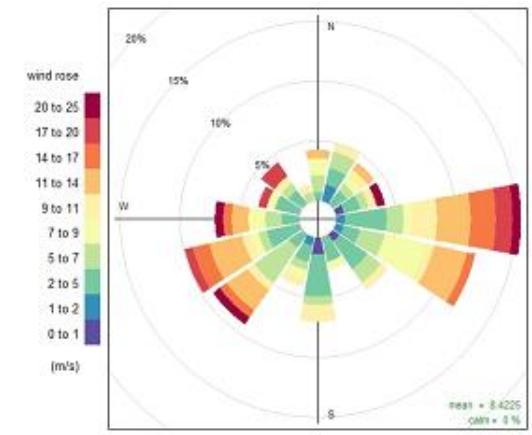


Chennai**December****200 hPa level**

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

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



Chennai

43279

Station height

15

January

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1011.1	1017	1004	21.4	26.6	17.2	19.7	22	2.2	-0.8	-2	2.7
1000	113	165	70	21.8	26.7	8.4	19.8	28	3	-1.4	-2.6	3.7
950	557	610	504	20.9	29.6	14.2	17.5	55	4.5	-3.7	-2.6	5.4
925	788	839	747	19.3	26	14.2	15.1	55	4.7	-3.8	-2.7	5.6
900	1024	1082	970	18.2	27.4	11.8	12.6	62	5.1	-4.5	-2.4	6.1
850	1512	1571	1436	16	24.4	8.6	6.6	61	5.1	-4.5	-2.5	6.4
800	2025	2091	1956	14	23.8	7.4	1.3	61	4.6	-4	-2.2	6.4
750	2566	2639	2487	11.9	22.2	4.8	-2.9	63	3.4	-3	-1.5	5.7
700	3141	3230	3013	9.6	17.2	2.8	-6.6	61	2.3	-2	-1.1	5.3
650	3752	3854	3646	6.6	14.6	-0.5	-10	58	1.5	-1.3	-0.8	5.3
600	4404	4517	4288	3.1	9.6	-3.5	-13.1	41	1.1	-0.7	-0.8	5.6
550	5103	5226	4978	-1	6	-8.1	-16.9	7	0.8	-0.1	-0.8	6.1
500	5857	5988	5719	-5.5	1.2	-12.7	-21.1	324	0.9	0.5	-0.7	6.7
450	6674	6823	6521	-10.6	-3.3	-18.7	-26.1	293	1.5	1.4	-0.6	7.9
400	7571	7729	7400	-16.4	2.1	-23.7	-32.9	280	2.7	2.7	-0.5	8.8
350	8561	8727	8373	-23.4	-2.5	-32.9	-38.8	263	4.6	4.6	0.6	9.9
300	9672	9916	9465	-31.7	-15	-40.7	-46.7	249	6.6	6.1	2.4	10.9
250	10935	11300	10686	-41.7	-12	-50.3	-54.4	237	8.4	7	4.6	12.1
200	12410	12755	12108	-53.5	-35.3	-62.1	-64.4	229	9.2	7	6	13.6
175	13253	13633	12920	-60.3	-51.7	-69.5	-65.6	229	8.5	6.4	5.6	13.4
150	14200	14612	13836	-67.2	-53.1	-76.3		231	7.2	5.6	4.6	12.6
125	15279	15722	14878	-73.9	-62.1	-84.1		238	4.6	3.9	2.4	10.5
100	16562	17031	16145	-79.2	-70.3	-89.1		223	1.8	1.2	1.3	8.5
80	17835	18340	17353	-76.5	-62.1	-89.7		207	0.4	0.2	0.4	6.4
70	18619	19160	18120	-73.2	-57.4	-86.1		259	0.5	0.5	0.1	5.7
60	19470	20181	18957	-68.9	-48.7	-80.9		270	0.7	0.7	0	5.5
50	20618	21222	20017	-63.6	-45	-79.1		207	0.2	0.1	0.2	5.9
40	22002	22659	21356	-58.7	-41.9	-72.5		81	1.3	-1.3	-0.2	7.8
30	23831	24571	23137	-54.1	-39.1	-66.9		77	3.9	-3.8	-0.9	9.5
25	25006	25630	24295	-52.1	-37.5	-63.3		68	6.4	-5.9	-2.4	11.6
20	26443	27069	25762	-50	-37.3	-60.3		65	6.6	-6	-2.8	13.1
15	28292	28940	27568	-48.3	-38.1	-58.3		53	5.9	-4.7	-3.6	11.3
10	30964	31532	30468	-45.4	-36.7	-54.3		34	2.3	-1.3	-1.9	8.5
7	33305	33880	32900	-43.2	-32.9	-49.9		122	1.9	-1.6	1	3.8

FREEZING LEVEL

P	Height	H max	H min
562	4943	6160	3510

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16540	-80.7

Chennai

43279

Station height

15

February

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1009.9	1015	1004	22.4	28	16.8	20.7	59	0.6	-0.5	-0.3	1.9
1000	102	144	12	22.7	26.9	17.6	20.7	63	0.9	-0.8	-0.4	2.7
950	548	596	471	21.7	28	15.8	17.7	107	2.4	-2.3	0.7	4.7
925	781	829	741	20.6	28.2	14.4	14.3	90	2.8	-2.8	0	4.9
900	1016	1068	900	19.9	27.8	12.8	10.4	95	3.3	-3.3	0.3	5.5
850	1507	1567	1457	17.7	25.2	8.4	4.7	71	3.7	-3.5	-1.2	6
800	2022	2094	1926	14.8	22.6	7.2	0.8	53	3.6	-2.9	-2.2	6.1
750	2564	2647	2462	11.8	19.6	5.8	-2.9	40	3.1	-2	-2.4	5.9
700	3138	3233	3072	9.1	17.2	3	-7.1	34	2.2	-1.2	-1.8	5.5
650	3748	3856	3670	6.1	14	-2.5	-11.5	30	1.4	-0.7	-1.2	5.4
600	4399	4522	4310	2.7	12	-3.7	-14.4	6	0.9	-0.1	-0.9	6
550	5097	5235	4997	-1.2	7.6	-7.1	-17	325	1.2	0.7	-1	6.6
500	5851	5999	5738	-5.7	3.2	-12.1	-21.4	301	1.7	1.5	-0.9	7.4
450	6667	6826	6546	-10.9	-1.9	-19.5	-26.6	290	2.7	2.5	-0.9	8.6
400	7563	7734	7437	-16.7	-7.1	-26.9	-31.7	286	4.1	3.9	-1.1	9.9
350	8551	8758	8400	-23.8	-14.3	-33.7	-37.5	274	5.9	5.9	-0.4	11.1
300	9660	9916	9476	-31.9	-20.9	-43.1	-43.9	258	7.5	7.3	1.5	12.1
250	10921	11236	10690	-42	-31.7	-52.3	-55.1	247	8.9	8.2	3.4	12.8
200	12393	12775	12105	-53.9	-43.3	-66.9	-66.1	240	8.9	7.7	4.5	13.6
175	13237	13656	12914	-60.7	-50.1	-71.9	-69.1	237	8.2	6.9	4.5	13.6
150	14181	14636	13820	-67.6	-58.1	-78.9		237	7.1	5.9	3.9	13.1
125	15257	15747	14864	-74.4	-63.3	-87.1		242	4.4	3.9	2.1	11
100	16539	17063	16097	-79.5	-60.1	-89.1		254	1.9	1.8	0.5	8.5
80	17807	18364	17364	-77.5	-56.7	-88.1		225	0.6	0.4	0.4	6.6
70	18587	19160	18159	-74.3	-56.5	-86.3		250	1.2	1.1	0.4	6
60	19437	20094	19028	-70.2	-54.5	-83.4		248	1.6	1.5	0.6	5.7
50	20580	21205	20075	-65	-49.5	-76.2		252	0.9	0.9	0.3	6.1
40	21966	22617	21389	-60.3	-47.9	-71.7		124	0.4	-0.3	0.2	6.6
30	23784	24499	23148	-55.1	-44.1	-65		78	3.4	-3.3	-0.7	9.3
25	24959	25690	24500	-52.5	-39.1	-63.5		74	5	-4.8	-1.4	11.1
20	26429	27320	25930	-49.6	-40.5	-59.5		70	6.2	-5.8	-2.1	10.6
15	28339	29265	27781	-46.4	-38.1	-55.9		43	5	-3.4	-3.7	10.7
10	31050	32056	30456	-43.3	-33.3	-52.6		45	4	-2.8	-2.8	10.5
7	33415	34300	32900	-40.3	-30.7	-49.8		5	1.1	-0.1	-1.1	9.8

FREEZING LEVEL

P	Height	H max	H min
566	4880	6400	3510

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
99	16609	-81

Chennai

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Station height

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March

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1008.3	1014	1002	24.4	28.6	19.6	22.6	185	1.1	0.1	1.1	2
1000	88	138	35	24.5	29.9	19.4	22.5	184	1.3	0.1	1.3	2.4
950	536	584	489	23.6	30.2	16.4	18.5	175	3.4	-0.3	3.4	4.9
925	770	816	724	22.9	33.6	16.6	13.8	162	2.8	-0.9	2.7	5.2
900	1008	1053	965	22.4	32.2	14.2	9.9	150	3.4	-1.7	2.9	5.6
850	1503	1555	1458	20.2	27.8	13	3.9	100	3.4	-3.3	0.6	5.8
800	2023	2085	1970	16.9	24.6	9	0.6	67	4.6	-4.2	-1.8	6.4
750	2567	2642	2508	13.2	21.2	6.6	-2	48	5.2	-3.9	-3.5	7
700	3144	3230	3074	9.4	17.4	3	-5.7	42	4.8	-3.2	-3.6	6.8
650	3754	3855	3646	6	14.2	0	-10.1	35	4	-2.3	-3.3	6.4
600	4404	4519	4287	2.6	10.6	-5.3	-14.5	36	2.9	-1.7	-2.3	5.8
550	5102	5233	5012	-1.3	6.4	-8.3	-17.9	39	2.1	-1.3	-1.6	6
500	5856	6010	5760	-5.6	2	-12.5	-22.1	17	1.4	-0.4	-1.3	6.8
450	6673	6850	6563	-10.7	-1.3	-18.1	-26.4	318	1.5	1	-1.1	7.7
400	7570	7730	7438	-16.5	-6.3	-23.7	-30.7	279	3	3	-0.5	8.9
350	8559	8755	8409	-23.5	-12.3	-31.1	-36.9	267	5.4	5.4	0.3	10.1
300	9670	9910	9493	-31.7	-21.9	-40.9	-43.2	256	7.7	7.5	1.9	11.6
250	10932	11218	10729	-41.7	-32.5	-50.5	-54	247	9.2	8.5	3.6	12.9
200	12407	12754	12159	-53.3	-43.7	-61.7	-64.8	243	10.1	9	4.5	14.3
175	13255	13636	12979	-59.8	-49.1	-68.9	-67.9	246	9.4	8.6	3.9	14.3
150	14204	14615	13891	-66.7	-56.9	-75.9		248	8.1	7.5	3.1	13.5
125	15289	15725	14926	-73.3	-62.6	-83.7		253	5.1	4.9	1.5	11.3
100	16571	17028	16148	-79.1	-68.7	-89.7		249	1.7	1.6	0.6	8.4
80	17838	18305	17368	-76.9	-64.1	-88.7		90	0.5	-0.5	0	6.4
70	18620	19120	18115	-73.5	-57.7	-85.9		270	0.4	0.4	0	6
60	19526	19998	18990	-68.8	-53.1	-80.3		265	1.1	1.1	0.1	5.9
50	20632	21125	20048	-63.5	-45.7	-74.9		264	0.9	0.9	0.1	6.6
40	22028	22621	21370	-58.4	-40.5	-72.5		79	1	-1	-0.2	7.8
30	23869	24598	23114	-52.8	-36.1	-67.3		65	3.1	-2.8	-1.3	9.3
25	25056	25698	24255	-50.1	-37.7	-59.9		74	5.7	-5.5	-1.6	10.4
20	26519	27116	25667	-47.2	-31.1	-57.1		72	6.4	-6.1	-2	11.3
15	28424	29061	27493	-44.4	-33.9	-55.7		63	4.9	-4.4	-2.2	9.1
10	31113	31786	30501	-41.5	-32.5	-50.1		49	4.4	-3.3	-2.9	9.4
7	33580	34214	32863	-39.1	-32.5	-47.9		8	2.7	-0.4	-2.7	9

FREEZING LEVEL

P	Height	H max	H min
566	4882	6350	3740

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16672	-80.7

Chennai

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Station height

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April

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1006.2	1011	1001	26.8	30.2	22	24.6	190	2.2	0.4	2.2	2.7
1000	70	110	15	26.8	33.2	23	24.6	191	2.5	0.5	2.5	3.1
950	523	635	472	25.3	31.6	17	21.7	196	5.5	1.5	5.3	6.6
925	761	837	708	24.1	31	18	19.4	192	4.8	1	4.7	6.1
900	997	1103	949	23.6	30.2	15.8	15.1	187	4.6	0.6	4.6	6
850	1495	1596	1448	21.6	29.4	13.8	8.2	145	2.4	-1.4	2	4.6
800	2017	2114	1959	18.6	27.8	10.7	3.2	78	3.5	-3.4	-0.7	5.2
750	2566	2673	2492	14.9	23.2	7	-0.1	56	5.2	-4.3	-2.9	6.5
700	3145	3237	3056	10.7	18.4	4.8	-3	47	6.2	-4.5	-4.2	7.4
650	3758	3849	3657	6.5	14.6	0.4	-6.5	41	6	-3.9	-4.5	7.4
600	4410	4501	4318	2.7	12.2	-3.9	-11.3	40	4.8	-3.1	-3.7	6.6
550	5108	5211	4994	-1	8	-7.1	-16.1	47	3.4	-2.5	-2.3	5.9
500	5863	5981	5767	-5.2	1.4	-12.3	-20.2	63	2	-1.8	-0.9	6.1
450	6682	6817	6550	-10.1	-2.1	-15.9	-24.1	63	0.4	-0.4	-0.2	6.7
400	7581	7743	7472	-15.8	-7.3	-23.3	-29.1	270	1.4	1.4	0	7.8
350	8574	8770	8431	-22.6	-10.5	-36.9	-34.9	263	3.3	3.3	0.4	8.6
300	9689	9933	9538	-30.7	-19.1	-53.1	-42.3	252	5.4	5.1	1.7	9.7
250	10957	11217	10759	-40.7	-30.9	-50.1	-51.7	243	7.3	6.5	3.3	10.9
200	12439	12756	12180	-52.4	-42.3	-63.3	-62.6	236	8.3	6.9	4.6	11.9
175	13287	13630	12990	-59.1	-49.1	-69.7	-67.3	235	7.8	6.4	4.4	11.9
150	14237	14603	13891	-66.3	-53.7	-77.5	-74.2	237	6.4	5.3	3.5	10.7
125	15322	15715	14917	-73.2	-62	-87.3		238	3.2	2.7	1.7	8.6
100	16606	17040	16149	-79	-66	-88.2		108	1.3	-1.2	0.4	7.6
80	17883	18333	17395	-76.2	-61.1	-88.9		86	2.8	-2.8	-0.2	6.5
70	18673	19160	18180	-72.5	-56.3	-84.4		86	1.4	-1.4	-0.1	5.8
60	19412	20313	19043	-67.6	-54.5	-81.9		135	0.1	-0.1	0.1	6
50	20693	21265	20197	-61.7	-46.5	-79.1		69	0.9	-0.8	-0.3	6.9
40	22094	22720	21556	-56.8	-39.7	-70.9		77	3.9	-3.8	-0.9	8.6
30	23936	24585	23329	-51.5	-36.7	-67.1		78	7.5	-7.3	-1.6	11.4
25	25130	25850	24475	-48.8	-35.9	-64.5		81	8.6	-8.5	-1.4	12.6
20	26635	27355	26041	-46.1	-36.1	-57.9		83	10.1	-10	-1.3	13.6
15	28579	29360	27873	-42.8	-32.7	-56.7		72	8.5	-8.1	-2.6	11.8
10	31299	32063	30508	-39.2	-27.1	-51.7		48	5.5	-4.1	-3.7	10.2
7	33742	34452	32850	-36.8	-26.1	-46.9		37	3	-1.8	-2.4	6.8

FREEZING LEVEL

P	Height	H max	H min
563	4932	6200	3750

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
99	16691	-80.4

Chennai

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Station height

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May

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1003.2	1009	995	28.4	32.6	23	24.3	221	2.9	1.9	2.2	3.9
1000	46	97	12	28.4	32.2	22.8	24.2	217	3	1.8	2.4	4
950	498	571	418	27.3	34.2	19.4	21.5	234	6.8	5.5	4	8.9
925	736	806	681	26.3	33.2	17.6	19.2	241	6.3	5.5	3	8.8
900	976	1047	901	25.5	33	15.6	17.2	244	5.5	4.9	2.4	8.4
850	1477	1546	1401	23	30.2	13	12.7	265	2.3	2.3	0.2	5.7
800	2002	2066	1926	19.8	27.4	8.8	8.4	3	1.9	-0.1	-1.9	5.2
750	2553	2619	2472	15.9	22.6	5	4.5	29	3.7	-1.8	-3.2	6
700	3136	3208	3046	11.7	18.4	5	0.7	38	4.9	-3	-3.9	7.1
650	3750	3829	3654	7.2	15	1.6	-3.2	39	5.4	-3.4	-4.2	7.8
600	4404	4576	4281	3	11.6	-4.1	-7.4	38	5.1	-3.1	-4	7.8
550	5103	5285	4983	-0.9	6.4	-7.3	-12.3	39	4	-2.5	-3.1	7.2
500	5859	6050	5743	-4.8	2	-12.3	-17.3	48	2.4	-1.8	-1.6	6.7
450	6679	6883	6554	-9.4	-1.9	-18.3	-21.5	54	1.4	-1.1	-0.8	6.5
400	7581	7745	7440	-14.9	-6.3	-23.9	-26.8	54	0.9	-0.7	-0.5	6.5
350	8579	8771	8411	-21.5	-11.9	-31.7	-32.8	63	0.4	-0.4	-0.2	6.2
300	9698	9934	9489	-29.6	-20.7	-41.9	-39.6	124	0.4	-0.3	0.2	6.1
250	10974	11257	10750	-39.3	-30.3	-52.5	-48.4	138	1.2	-0.8	0.9	6.8
200	12464	12804	12154	-51.3	-40.7	-67.5	-59.9	129	3.2	-2.5	2	8.7
175	13318	13686	12948	-58.3	-47.5	-73.5	-64.6	119	4.7	-4.1	2.3	9.9
150	14271	14666	13833	-65.8	-55.5	-81.3	-67.5	108	6.6	-6.3	2	11.2
125	15355	15787	14839	-73.2	-60.5	-85.7		97	8.9	-8.8	1.1	12
100	16641	17197	16098	-79	-63.5	-89.5		91	10.5	-10.5	0.2	12.4
80	17922	18524	17381	-75.7	-59.7	-94.7		91	8.7	-8.7	0.1	10.3
70	18712	19320	18127	-71.5	-56.5	-86.5		88	6.5	-6.5	-0.2	8.3
60	19365	20281	19011	-66.4	-51.9	-78.1		82	5.1	-5.1	-0.7	7.3
50	20749	21459	20075	-61	-43.7	-73.7		81	6.6	-6.5	-1	8.6
40	22158	22941	21443	-56.5	-40.3	-69.3		78	9.6	-9.4	-2	11.4
30	24008	24907	23210	-51.5	-35.7	-60.9		82	12.1	-12	-1.7	14.3
25	25202	26180	24359	-48.7	-33.1	-59.1		82	13.7	-13.6	-1.8	16.1
20	26690	27761	25791	-45.8	-28.9	-55.3		78	14.1	-13.8	-2.9	16.8
15	28564	29559	27963	-43.8	-28.5	-52.1		68	12.6	-11.7	-4.7	16.4
10	31266	31803	30657	-40.4	-33	-50.3		67	9.5	-8.7	-3.7	12.7
7	33777	34200	33350	-36.8	-30.1	-48.5		65	7.2	-6.5	-3	11.4

FREEZING LEVEL

P	Height	H_max	H_min
562	4947	6360	3870

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
100	16645	-80.3

Chennai

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Station height

15

June

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1002.1	1008	990	28.4	32	22.8	22.3	253	4.1	3.9	1.2	4.7
1000	38	135	-33	28.4	34.8	22.6	22.4	248	4	3.7	1.5	4.6
950	488	588	378	26.8	32.8	15.6	19.8	257	9.2	9	2	10.6
925	727	825	610	25.4	33.6	15	18.5	253	8.7	8.3	2.5	10.8
900	965	1067	848	24.3	33.6	14.6	17	267	9.9	9.9	0.6	11.9
850	1463	1568	1341	21.5	32.2	12.8	14.3	271	8.7	8.7	-0.2	10.9
800	1986	2089	1859	18.3	27.8	10.2	11.4	273	6.8	6.8	-0.4	9.1
750	2535	2635	2407	14.7	23.2	6.6	8.2	272	5.2	5.2	-0.2	8
700	3115	3210	2988	11.1	18.2	4.6	4.5	270	4.5	4.5	0	7.8
650	3730	3822	3604	7.3	15.6	0.6	0.7	269	4.2	4.2	0.1	7.9
600	4385	4486	4257	3.5	12.4	-3.9	-3.1	266	4.2	4.2	0.3	8.1
550	5086	5193	4953	-0.4	7.8	-7.1	-7.3	264	4	4	0.4	7.7
500	5843	5966	5697	-4.5	2	-12.3	-12.2	264	3.6	3.6	0.4	6.9
450	6664	6806	6500	-9.2	-2.9	-19.1	-17.7	268	2.3	2.3	0.1	6
400	7568	7732	7386	-14.6	-7.7	-22.9	-23.8	307	0.5	0.4	-0.3	5.3
350	8566	8755	8369	-21.2	-13.9	-29.9	-30.2	63	1.8	-1.6	-0.8	5.7
300	9687	9910	9459	-29.3	-20.1	-40.1	-38.3	75	4.8	-4.6	-1.2	7
250	10963	11225	10677	-39.3	-29.7	-50.7	-48	79	9.1	-8.9	-1.8	10.9
200	12453	12775	12094	-51.4	-42.1	-62.7	-59.1	78	14.9	-14.6	-3.2	16.9
175	13307	13660	12900	-58.3	-48.5	-70.9	-64.1	76	18.7	-18.1	-4.6	20.5
150	14260	14645	13798	-66	-55.5	-76.9	-69.5	77	22.4	-21.8	-5.1	24.5
125	15344	15704	14829	-73.5	-63.1	-85.3		80	25.1	-24.7	-4.4	27.4
100	16629	17005	16051	-78.7	-68.4	-91.3		83	23.8	-23.6	-2.8	25.7
80	17913	18315	17277	-74.2	-60.1	-86.1		85	16.8	-16.7	-1.6	18.4
70	18709	19132	18033	-69.8	-57.5	-81.5		83	13.5	-13.4	-1.6	15
60	19500	20176	18933	-65.2	-50.7	-77.3		79	11.5	-11.3	-2.2	12.9
50	20757	21656	20018	-60.6	-46.9	-72.7		79	12	-11.8	-2.3	13.2
40	22175	23067	21619	-56.4	-43.5	-67.1		82	13.4	-13.3	-1.8	14.7
30	24029	24928	23388	-51.5	-39.1	-66.1		85	15.9	-15.8	-1.4	17.4
25	25197	25760	24597	-49.5	-37.1	-63.3		83	14.7	-14.6	-1.8	16.6
20	26670	27278	26005	-46.8	-31.3	-59.1		81	15.2	-15	-2.3	17.1
15	28598	29283	27844	-44	-33.5	-56.5		76	12.8	-12.4	-3	14.8
10	31340	32057	30501	-40.6	-31.9	-56.1		73	9.7	-9.3	-2.9	11.8
7	33934	34555	32798	-36.4	-30.1	-50.3		38	3.1	-1.9	-2.4	9.1

FREEZING LEVEL

P	Height	H max	H min
556	5017	6250	3710

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16571	-80.0

Chennai

43279

Station height

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July

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1002.9	1007	996	27.3	30.6	22.6	22.4	255	3.8	3.7	1	4.4
1000	42	81	2	27.3	34.7	19.4	22.4	252	3.8	3.6	1.2	4.4
950	493	542	63	26	31.5	18.8	19.6	259	8.8	8.6	1.7	10.1
925	728	767	688	24.5	29.8	18.2	18.1	258	8.8	8.6	1.9	10.9
900	969	1029	912	23	29	16.2	16.9	268	9.9	9.9	0.3	11.9
850	1464	1524	1410	20.2	27.4	13.2	14.4	275	9.4	9.4	-0.8	11.7
800	1985	2042	1924	17.1	23.8	8.9	11.8	276	8.1	8	-0.9	10.2
750	2532	2599	2460	13.8	19.8	7.2	8.9	274	6.9	6.9	-0.5	9
700	3111	3188	3004	10.3	16.4	3.4	5.5	269	6.6	6.6	0.1	8.5
650	3725	3811	3638	6.8	12.6	-0.3	1.6	266	6.7	6.7	0.5	8.6
600	4379	4479	4279	3.2	9.6	-3.3	-2.2	262	6.5	6.4	0.9	8.4
550	5079	5181	4965	-0.6	5.8	-6.3	-6.1	258	5.5	5.4	1.1	7.9
500	5836	5948	5705	-4.7	1.6	-10.7	-11.2	256	4.2	4.1	1	7.1
450	6657	6776	6512	-9.4	-1.9	-16.7	-16.8	250	2.3	2.2	0.8	6.2
400	7560	7720	7398	-14.9	-5.9	-22.3	-22.8	112	0.5	-0.5	0.2	5.7
350	8557	8745	8382	-21.6	-13.3	-29.1	-29.3	80	3.5	-3.4	-0.6	6.4
300	9677	9898	9461	-29.8	-21.3	-38.5	-37.8	81	7.2	-7.1	-1.1	8.8
250	10949	11208	10721	-39.9	-31.9	-50.7	-47.6	79	12.6	-12.4	-2.4	14.1
200	12433	12736	12161	-52.1	-42.9	-65.3	-58.7	76	20.1	-19.5	-4.7	21.4
175	13285	13610	12979	-59.1	-50.3	-71.1	-63.7	74	23.8	-22.9	-6.4	25.1
150	14235	14592	13884	-66.6	-57.5	-77.1	-71.4	75	27.9	-27	-7.2	29.3
125	15315	15714	14918	-74.1	-65.5	-88.5		78	31.4	-30.7	-6.7	33
100	16599	17051	16034	-77.9	-64.7	-88.5		82	29	-28.7	-4.2	30.3
80	17890	18415	17308	-71.8	-55.5	-85.5		83	20.1	-20	-2.3	21.2
70	18692	19150	18106	-68.1	-55.5	-79.1		83	17.6	-17.5	-2.2	18.7
60	19567	20128	19026	-64.3	-52	-76		83	15.6	-15.5	-2	16.5
50	20742	21225	20160	-60.3	-47.5	-72.3		82	16.1	-15.9	-2.3	16.9
40	22153	22678	21513	-57	-45.5	-67.5		81	15.6	-15.4	-2.4	16.7
30	24001	24591	23268	-53.1	-42.5	-65.9		83	17	-16.9	-2.1	18.2
25	25169	25830	24388	-51.1	-40.1	-64.5		84	15.5	-15.4	-1.7	16.8
20	26651	27251	25777	-48.4	-38.1	-61.3		83	16.1	-16	-1.9	17.5
15	28526	29015	27593	-47	-35.3	-64.5		78	12.8	-12.5	-2.6	14.8
10	31224	31793	30196	-43.6	-36.5	-52.9		77	11.2	-10.9	-2.6	13.6
7	33657	34214	33000	-40.4	-34.9	-48.9		69	10.2	-9.5	-3.7	12.1

FREEZING LEVEL

P	Height	H max	H min
558	4975	6190	3180

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
106	16293	-79.8

Chennai

43279

Station height

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August

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1003.7	1009	998	26.7	30.2	23.2	22.6	255	3.8	3.7	1	4.4
1000	48	98	15	26.7	31.8	22.8	22.5	252	3.9	3.7	1.2	4.5
950	499	575	447	25.5	33.2	19	19.2	261	8.7	8.6	1.3	10
925	736	793	680	23.9	31.2	17.8	17.6	259	8.2	8	1.6	10.3
900	974	1036	919	22.7	30.8	16.6	16.5	272	9.5	9.5	-0.4	11.4
850	1469	1540	1412	19.9	28	14.2	14	280	9	8.9	-1.5	11.3
800	1990	2069	1927	16.9	24.6	10	11.5	280	7.9	7.8	-1.4	10
750	2536	2624	2459	13.6	22.2	8.2	8.7	277	7.1	7	-0.9	8.9
700	3115	3209	3028	10.2	19.2	5.6	5.2	273	6.7	6.7	-0.4	8.5
650	3728	3828	3639	6.8	15	1.8	1.3	269	6.6	6.6	0.1	8.4
600	4382	4486	4288	3.3	10.4	-3.5	-2.6	267	6.2	6.2	0.3	8.3
550	5083	5208	4885	-0.5	6.8	-7.9	-7	265	5.5	5.5	0.5	7.9
500	5839	5981	5700	-4.6	3.4	-30	-12	264	3.9	3.9	0.4	7.1
450	6661	6824	6500	-9.3	-1.9	-16.3	-17.2	262	2.1	2.1	0.3	6.2
400	7564	7755	7404	-14.8	-4.1	-22.9	-23.2	90	0.3	-0.3	0	5.9
350	8560	8777	7871	-21.6	-12.3	-30.1	-29.7	82	3	-3	-0.4	6.4
300	9680	9927	9447	-29.8	-18.3	-39.2	-38.1	82	6.9	-6.8	-0.9	8.8
250	10952	11204	10312	-39.9	-30.9	-49.3	-47.9	81	12.4	-12.3	-1.9	13.8
200	12436	12734	11823	-52	-40.5	-63.3	-59.1	77	19.3	-18.8	-4.4	20.6
175	13287	13612	12665	-59	-46.1	-73.1	-65.4	76	23.1	-22.4	-5.6	24.4
150	14237	14590	13637	-66.5	-54.1	-76.9	-70.5	77	26.6	-25.9	-5.9	28
125	15321	15700	14785	-74	-61.3	-84.7		79	29	-28.5	-5.5	30.7
100	16608	17019	16074	-77.2	-62.4	-88.7		81	25.7	-25.4	-3.8	27.2
80	17916	18346	17364	-70.6	-55.1	-80.5		83	18.1	-18	-2.1	19.6
70	18724	19180	18152	-66.8	-52.9	-76.1		83	15.8	-15.7	-1.8	17.3
60	19291	20150	19064	-63.3	-47.1	-72.3		81	14.6	-14.4	-2.3	15.8
50	20788	21337	20151	-59.9	-46.9	-69.5		80	15.1	-14.9	-2.5	16.3
40	22197	22822	21496	-56.8	-42.5	-67.3		79	14.7	-14.5	-2.7	16.1
30	24040	24761	23277	-53.1	-41.1	-63.5		81	14.5	-14.3	-2.2	15.7
25	25226	25977	24447	-51.2	-37.5	-60.1		80	14.7	-14.5	-2.6	16.4
20	26698	27322	26199	-48.7	-39.1	-57.1		81	14.1	-13.9	-2.2	15.6
15	28606	29302	28089	-46.2	-37.1	-56.5		76	11.2	-10.9	-2.7	14
10	31278	32122	30923	-42.9	-30.9	-56.3		63	9.1	-8.1	-4.1	13.1
7	33677	34340	33000	-40.3	-32.1	-46.7		20	9.1	-3.1	-8.6	11.9

FREEZING LEVEL

P	Height	H max	H min
556	5003	6330	3880

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
106	16296	-79.4

Chennai

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Station height

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September

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1004.9	1010	999	26.2	30	22.8	23.4	245	2.6	2.4	1.1	3.4
1000	58	194	15	26.2	31	21.6	23.3	243	2.9	2.6	1.3	3.7
950	510	619	452	25.3	32.2	19.8	20	249	6	5.6	2.1	7.6
925	746	854	699	23.7	30	16.8	17.7	249	5.8	5.4	2.1	7.8
900	984	1094	870	22.7	33	13.8	16.8	262	5.5	5.4	0.8	7.6
850	1480	1589	1365	19.8	29.4	10.8	14.1	275	4.2	4.2	-0.4	6.8
800	2000	2106	1921	16.5	24.2	10	11.2	288	3.5	3.3	-1.1	6.2
750	2545	2651	2457	13.2	20.8	8.2	7.9	290	3.2	3	-1.1	6.1
700	3123	3227	3029	10	20.3	4.4	4	286	2.9	2.8	-0.8	6
650	3736	3840	3642	6.7	14.6	1.8	-0.3	276	2.7	2.7	-0.3	6
600	4389	4497	4293	3.2	11.8	-2.3	-4.5	267	2.2	2.2	0.1	5.8
550	5089	5217	4981	-0.6	8	-7.1	-8.9	258	1.4	1.4	0.3	5.7
500	5846	5967	5722	-4.9	2	-10.9	-13.7	236	0.4	0.3	0.2	5.6
450	6666	6797	6527	-9.7	-2.5	-16.1	-18.8	86	1.3	-1.3	-0.1	5.5
400	7567	7724	7409	-15.3	-7.9	-22.3	-24.8	84	3.1	-3.1	-0.3	5.8
350	8563	8745	8384	-22.1	-14.3	-29.9	-31.8	87	5	-5	-0.3	6.9
300	9680	9897	9476	-30.3	-21.7	-39.7	-40.2	88	7.5	-7.5	-0.2	8.7
250	10950	11207	10712	-40.5	-29.5	-51.7	-50.2	88	11.2	-11.2	-0.3	12.2
200	12431	12737	12115	-52.7	-41.3	-63.5	-61.2	84	16.1	-16	-1.7	17.2
175	13280	13614	12916	-59.7	-47.9	-71.9	-66.4	82	19.1	-18.9	-2.7	20.2
150	14226	14604	13812	-67.3	-55.5	-78.8	-64.1	83	22.2	-22	-2.8	23.3
125	15304	15743	14925	-74.4	-61.4	-86.1		86	24	-23.9	-1.8	24.7
100	16591	17080	16178	-77.1	-63.3	-88.3		88	20.9	-20.9	-0.9	21.3
80	17891	18391	17435	-70.7	-57	-83.1		88	14.1	-14.1	-0.6	14.5
70	18696	19207	18216	-67.2	-55	-80.9		88	12.8	-12.8	-0.5	13.2
60	19407	20177	19133	-63.8	-52.7	-73.1		84	12	-11.9	-1.2	12.5
50	20748	21352	20230	-60.5	-48.5	-70.3		84	13.4	-13.3	-1.5	13.8
40	22156	22812	21575	-56.7	-45.1	-67.9		86	13.8	-13.8	-1	14.2
30	23990	24671	23346	-53.1	-42.5	-63.9		88	15.7	-15.7	-0.6	16.6
25	25177	25860	24529	-50.9	-40.7	-61.5		88	16.1	-16.1	-0.6	16.4
20	26653	27407	25944	-48.6	-38.9	-58.9		89	17.5	-17.5	-0.4	17.8
15	28549	29240	27783	-46.2	-37.5	-55.5		89	16	-16	-0.2	16.3
10	31207	32039	30424	-43.8	-34.7	-54.1		94	17.2	-17.2	1.1	17.7
7	33710	34300	33170	-41.3	-32.7	-52.9		91	17.8	-17.8	0.2	18.1

FREEZING LEVEL

P	Height	H max	H min
568	4834	6550	3570

FIRST TROPOAUSE

P	Height	Temp

SECOND TROPOAUSE

P	Height	Temp
111	15964	-79.5

Chennai

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Station height

15

October

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1006.6	1012	991	25.2	28.8	20.2	23.5	292	1.1	1	-0.4	2.8
1000	74	130	16	25.3	33.9	19.8	23.2	294	1.2	1.1	-0.5	3.2
950	523	626	389	24.3	33	17.8	20.2	287	1	1	-0.3	5.5
925	756	810	622	22.7	29.5	17.2	18	311	1.1	0.8	-0.7	5.6
900	996	1092	861	21.7	31.2	10.8	16.5	360	1	0	-1	5.9
850	1490	1579	1355	18.8	27.8	13.4	13	18	1.9	-0.6	-1.8	6.1
800	2008	2087	1879	15.8	23.8	10.2	9.8	18	2.3	-0.7	-2.2	6.2
750	2552	2624	2432	12.7	21.4	7	6.4	18	2.2	-0.7	-2.1	6.2
700	3130	3211	3017	9.8	18.8	-1.3	2.6	22	1.6	-0.6	-1.5	6
650	3742	3841	3600	6.6	15.2	-0.9	-1	45	1.1	-0.8	-0.8	5.5
600	4395	4510	4291	3.2	11.2	-2.1	-4.9	75	1.1	-1.1	-0.3	5.4
550	5095	5227	4984	-0.5	7.8	-5.5	-8.8	90	1.5	-1.5	0	5.4
500	5852	6006	5733	-4.6	3	-10.5	-13.4	90	2.1	-2.1	0	5.4
450	6674	6850	6542	-9.4	-2.3	-16.3	-18.4	88	2.6	-2.6	-0.1	5.5
400	7576	7774	7430	-15	-7.5	-22.7	-25	90	3	-3	0	5.7
350	8573	8799	8407	-21.8	-14.3	-31.9	-31.6	93	3.7	-3.7	0.2	6
300	9691	9946	9502	-30	-21.3	-40.7	-39.9	97	4.3	-4.3	0.5	6.4
250	10963	11254	10715	-40.3	-30.1	-51.1	-49.9	98	5.5	-5.4	0.8	7.7
200	12444	12775	12139	-52.6	-40.9	-61.1	-60.9	98	7.8	-7.7	1.1	10.4
175	13294	13660	12962	-59.6	-48.9	-70.1	-64.9	97	9.3	-9.2	1.2	11.9
150	14241	14650	13896	-67.2	-58.1	-79.3	-66.9	98	11.2	-11.1	1.5	13.7
125	15321	15768	14912	-74.2	-58.8	-85.7	-70.6	98	12.2	-12.1	1.6	14.2
100	16606	17080	16150	-78.1	-68.7	-88.3		92	10.5	-10.5	0.4	11.8
80	17896	18376	17404	-72.7	-60.3	-80.9		89	7.2	-7.2	-0.1	8.4
70	18695	19150	18243	-69.2	-55.7	-79.1		87	6.7	-6.7	-0.4	8.1
60	19466	20083	19151	-65.3	-53.1	-77.5		85	7.5	-7.5	-0.6	8.6
50	20742	21241	20241	-61	-45.1	-70.3		86	9.3	-9.3	-0.7	10.3
40	22165	22684	21610	-56.9	-44.5	-67.1		85	11.3	-11.3	-0.9	12
30	24022	24594	23461	-52	-40.1	-61.9		88	14.3	-14.3	-0.6	15.2
25	25222	25790	24603	-49.4	-39.5	-60.3		89	13.7	-13.7	-0.3	14.9
20	26702	27355	26025	-46.7	-36.5	-57.3		90	14.6	-14.6	0	15.5
15	28623	29321	27955	-44.4	-35.5	-56.3		88	11.8	-11.8	-0.4	12.6
10	31408	31940	30801	-40.9	-33.5	-51.7		91	10.1	-10.1	0.1	11.3
7	33770	34400	33000	-39	-33.1	-49.1		91	8.4	-8.4	0.1	9.1

FREEZING LEVEL

P	Height	H max	H min
557	5003	6360	3500

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
105	16324	-79.7

Chennai

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Station height

15

November

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1008.9	1014	1002	23.6	27.6	18.4	22.1	10	2.7	-0.5	-2.7	3.7
1000	93	141	33	23.9	30.4	19.2	21.8	16	3.2	-0.9	-3.1	4.4
950	540	586	452	23	30.6	15.4	18.9	36	5.2	-3.1	-4.2	7
925	773	818	682	21.3	30.2	14.6	17.1	45	5.4	-3.8	-3.8	6.9
900	1010	1060	918	20.1	28.6	13.4	15	46	5.9	-4.2	-4.1	7.6
850	1501	1555	1404	17.4	25	11.6	11	49	5.7	-4.3	-3.7	7.6
800	2017	2075	1917	14.8	20.8	9.2	7.4	52	4.9	-3.9	-3	7.1
750	2560	2623	2463	12.3	19.1	5.8	4	58	4	-3.4	-2.1	6.4
700	3136	3210	3031	9.7	15.8	4.6	0.3	65	3.3	-3	-1.4	5.9
650	3747	3826	3635	6.5	13	-0.2	-3.7	72	2.8	-2.7	-0.9	5.7
600	4400	4490	4280	3.2	10.4	-2.7	-7.4	76	2.9	-2.8	-0.7	5.8
550	5100	5200	4974	-0.5	5.8	-8.9	-11.1	74	3.3	-3.2	-0.9	6.3
500	5857	5965	5723	-4.8	1.2	-12.1	-15.8	71	3.6	-3.4	-1.2	6.7
450	6677	6798	6534	-9.8	-2.1	-16.3	-20.3	69	3.4	-3.2	-1.2	7
400	7578	7725	7421	-15.4	-7.9	-22.1	-26.1	70	2.9	-2.7	-1	6.8
350	8572	8739	8397	-22.3	-13.9	-29.9	-32.5	83	1.6	-1.6	-0.2	6.4
300	9688	9885	9491	-30.6	-21.3	-39.5	-40.4	141	1.3	-0.8	1	6.4
250	10957	11195	10741	-41	-29.9	-50.7	-50.5	168	3.4	-0.7	3.3	7.6
200	12433	12740	12187	-53.3	-40.1	-63.1	-62.9	162	5.2	-1.6	5	9.8
175	13279	13617	13010	-60.3	-48.1	-71.1	-65.7	159	5.3	-1.9	5	10.2
150	14222	14586	13933	-67.6	-54.7	-77.1		152	4.5	-2.1	4	9.7
125	15299	15686	14967	-74.5	-64.9	-84.9		131	3.3	-2.5	2.2	8.8
100	16580	17017	16198	-78.9	-67.5	-87.5		98	4.2	-4.2	0.6	7.7
80	17868	18334	17438	-74.7	-60.3	-86.9		90	4.5	-4.5	0	6.7
70	18660	19130	18189	-71	-55.5	-80.7		87	3.8	-3.8	-0.2	6.2
60	19452	20063	19079	-66.8	-50.5	-80.5		89	4.2	-4.2	-0.1	6.6
50	20691	21222	20158	-62.3	-49.9	-76.5		87	5.9	-5.9	-0.3	8.4
40	22100	22655	21495	-57.7	-41.1	-72.1		92	6.6	-6.6	0.2	9.2
30	23945	24549	23238	-52.9	-37.7	-68.1		91	8.7	-8.7	0.2	11.5
25	25138	25688	24360	-50.3	-35.9	-63.5		92	9.4	-9.4	0.3	12.6
20	26627	27175	25841	-47.7	-37.5	-57.9		90	8.8	-8.8	0	12.3
15	28530	29128	27713	-45.5	-35.3	-58.5		92	6.4	-6.4	0.2	10
10	31195	31716	30646	-43	-31.9	-55.3		83	5	-5	-0.6	10
7	33592	34263	33165	-39.3	-27.1	-47.9		78	2.9	-2.8	-0.6	6.4

FREEZING LEVEL

P	Height	H_max	H_min
557	4999	6220	3920

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
103	16440	-80.4

Chennai

43279

Station height

15

December

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1011.1	1016	1003	22.1	26.6	17.4	20.5	17	3.4	-1	-3.2	3.9
1000	112	155	41	22.4	29.6	17	20.2	23	4.6	-1.8	-4.2	5.2
950	557	602	458	21.5	30.2	13.6	18	43	6.6	-4.5	-4.8	7.4
925	790	833	722	19.5	26.8	12.2	15.4	44	6.7	-4.7	-4.8	7.4
900	1025	1084	935	18.5	27.4	11.6	14	53	6.9	-5.5	-4.1	7.7
850	1513	1585	1421	16	24.2	9.8	8.9	60	6.4	-5.5	-3.2	7.4
800	2027	2113	1930	14.1	22	8	3.5	65	5.5	-5	-2.3	7
750	2568	2667	2471	12.3	20	5.6	-0.5	69	4.7	-4.4	-1.7	6.6
700	3144	3253	3061	9.9	16.8	1.4	-4	70	4	-3.8	-1.4	6.2
650	3756	3874	3612	6.8	14.4	1	-7.1	69	3.4	-3.2	-1.2	5.8
600	4409	4535	4324	3.2	10.6	-4.1	-10.2	69	3.1	-2.9	-1.1	5.8
550	5108	5241	5010	-0.8	6.8	-10.5	-13.8	70	2.9	-2.7	-1	6.1
500	5862	6007	5739	-5.3	3	-13.3	-18.2	64	2.5	-2.3	-1.1	6.5
450	6680	6839	6533	-10.4	-2.9	-18.9	-23	50	1.7	-1.3	-1.1	6.9
400	7578	7762	7397	-16.2	-7.9	-25.7	-28.5	338	1.1	0.4	-1	7.2
350	8569	8784	8348	-23.3	-14.9	-35.1	-34.5	279	2.4	2.4	-0.4	8
300	9680	9912	9404	-31.6	-23.3	-42.7	-41.5	251	4.6	4.4	1.5	9.3
250	10943	11203	10614	-41.7	-33.1	-52.3	-50.8	227	6.9	5.1	4.7	11.2
200	12416	12699	12016	-53.7	-44.1	-64.5	-62	221	8.8	5.8	6.6	13.2
175	13260	13573	12819	-60.4	-51.1	-71.7	-65.7	224	9.1	6.3	6.6	13.6
150	14205	14552	13714	-67.4	-57.7	-78.9	-72	232	8.2	6.5	5	12.6
125	15280	15632	14849	-73.9	-62.1	-84.9		245	5.5	5	2.3	10.2
100	16564	16955	16087	-79	-64.7	-90.1		233	1	0.8	0.6	7.8
80	17839	18275	17314	-76.3	-64.7	-90.1		92	2.6	-2.6	0.1	6.5
70	18624	19096	18056	-72.7	-56.5	-84.5		88	2.6	-2.6	-0.1	6.1
60	19529	19965	18932	-68.3	-56.1	-80.5		88	2.3	-2.3	-0.1	5.7
50	20634	21101	20000	-63.3	-47.7	-75.9		86	2.7	-2.7	-0.2	6.2
40	22023	22573	21349	-58.7	-45.3	-70.1		91	4.7	-4.7	0.1	8
30	23848	24494	23226	-53.8	-40.1	-65.7		88	7.6	-7.6	-0.3	10.6
25	25034	25670	24365	-51	-36.9	-63.1		84	8.2	-8.2	-0.8	11.1
20	26537	27057	25795	-48	-37.5	-60.3		85	7.4	-7.4	-0.6	11.1
15	28460	28994	27886	-45.8	-37.3	-55.7		76	4.9	-4.8	-1.2	9
10	31155	31583	30512	-43.3	-36.1	-52.1		78	3.5	-3.4	-0.7	9.7
7	33571	34000	32878	-40.9	-32.7	-51.1		103	0.9	-0.9	0.2	4.7

FREEZING LEVEL

P	Height	H max	H min
560	4976	6410	3930

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
100	16583	-80.7