



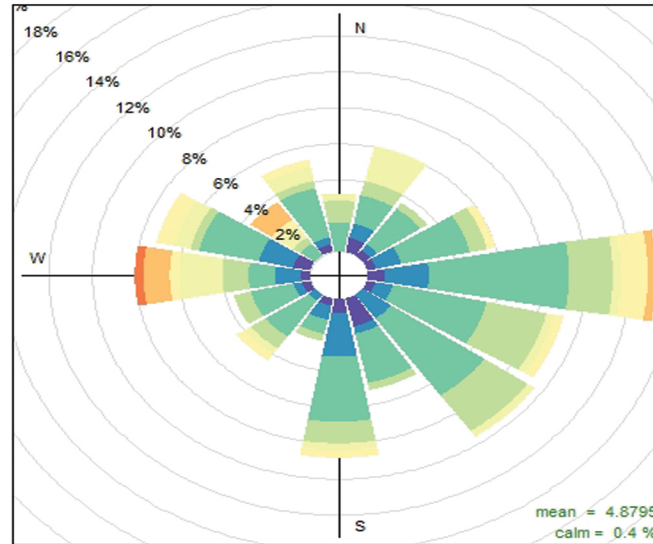
भारत सरकार / GOVERNMENT OF INDIA

पृथ्वी विज्ञान मंत्रालय/ MINISTRY OF EARTH SCIENCES

भारत मौसम विज्ञान भवन / INDIA METEOROLOGICAL DEPARTMENT

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

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



विशाखापट्टनम
VISA KHAPATNAM

सितम्बर २०२०
SEPTEMBER 2020



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

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PREFACE

India Meteorological Department (IMD), Ministry of Earth Sciences, brings out publications on varied meteorological topics. Normals of Radiosonde and Radiowind data has been published by the Climate Data Management and Services Group (CDMS), Office of Climate Research and Services (C R & S), IMD Pune since 1979. Four such publications have been published till date. The present publication 'Monthly Normals of Radiosonde and Radiowind (1981-2010) and Monthly Upper Air Windrose Diagrams (2000-2015)' is prepared using 0000 UTC (0530 IST) observation data from 35 Radiosonde and Radiowind (RS/RW) Upper Air stations for the period 1981-2010 and wind profile data of 34 RS/RW stations for the period 2000-2015 at eight different levels (1000, 925, 850, 700, 500, 300, 200, 100 hPa). The wind rose diagrams are prepared using R software after processing the RS/RW data by applying various quality checks. The present publication provides the climatology of different meteorological parameters at various levels over the **Visakhapatnam** (Latitude 17^o 43'N, Longitude 83^o 14'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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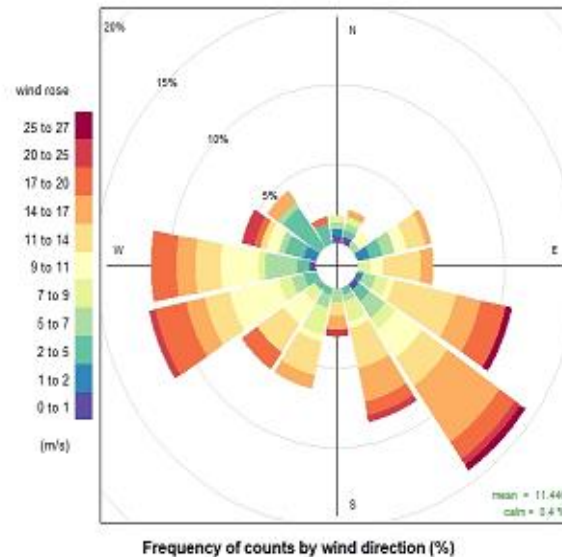
Description of various terms used in the table (Normals of Radiosonde data)

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.

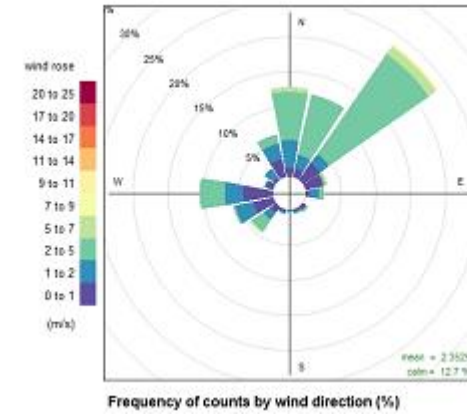
The circular format of the wind rose shows the direction the winds blew from and the length of each "spoke" around the circle shows how often the wind blew from that direction.

Visakhapatnam

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	13	1.3	3.9	6.9	0.7	0	0	0	0	0	0	0
12-33		1.3	2	8.8	0	0	0	0	0	0	0	0
34-56		2.9	1.6	17.3	1.3	0	0.3	0	0	0	0	0
57-78		2.6	0	0.3	0.3	0	0	0	0	0	0	0
79-101		0.7	1.3	0.7	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0.7	0	0.3	0	0	0	0	0	0	0	0
147-168		0.3	0.3	0	0	0	0	0	0	0	0	0
168-191		0	0.3	0	0	0	0	0	0	0	0	0
192-213		0.3	0.3	0	0	0	0	0	0	0	0	0
214-236		1	1.3	2	0.3	0	0	0	0	0	0	0
237-258		2.9	2.6	0.3	0	0	0	0	0	0	0	0
259-281		4.2	2.6	3.6	0	0	0	0	0	0	0	0
282-303		1	0.3	0	0	0	0	0	0	0	0	0
304-326		0.3	1.6	0	0	0	0	0	0	0	0	0
327-348		2.6	2.3	1.3	0	0	0	0	0	0	0	0

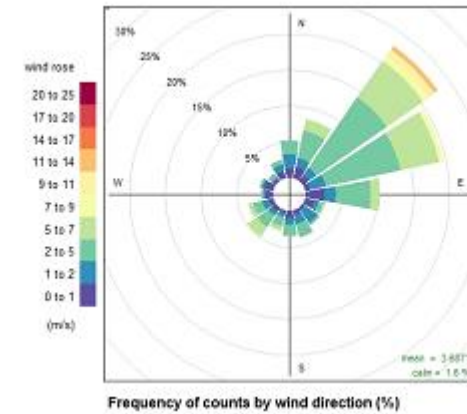


Visakhapatnam

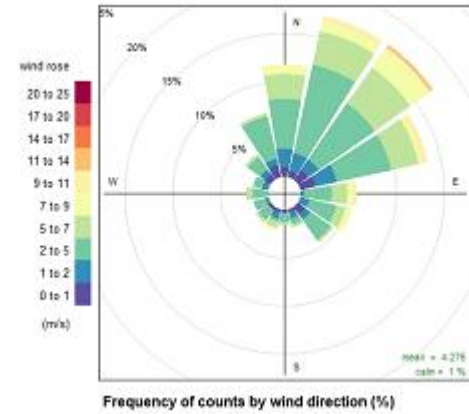
January

925 hPa level

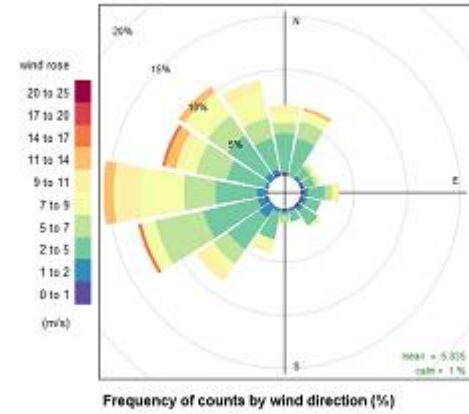
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12-33		1.6	1.3	3.9	1.6	0	0	0	0	0	0	0
34-56		1	1.3	11.9	6.1	1	1	0.6	0	0	0	0
57-78		0.6	2.3	10.6	5.5	0.6	0	0	0	0	0	0
79-101		2.6	1.6	4.8	1.3	0	0	0	0	0	0	0
102-123		1.3	0.6	0.6	0.3	0	0	0	0	0	0	0
124-146		0.3	2.3	0.3	0	0	0	0	0	0	0	0
147-168		0.6	1.3	1.9	0	0	0	0	0	0	0	0
168-191		1	1	1.6	0	0	0	0	0	0	0	0
192-213		0.3	0.6	1.3	0.6	0	0	0	0	0	0	0
214-236		0.6	0.6	1.9	1.6	0	0	0	0	0	0	0
237-258		0.6	1	1.3	0.6	0	0	0	0	0	0	0
259-281		1	0.3	0.3	0	0	0	0	0	0	0	0
282-303		1.3	0.3	0.3	0	0	0	0	0	0	0	0
304-326		0.3	0.3	0.6	0	0	0	0	0	0	0	0
327-348		1	1	0.6	0	0	0	0	0	0	0	0



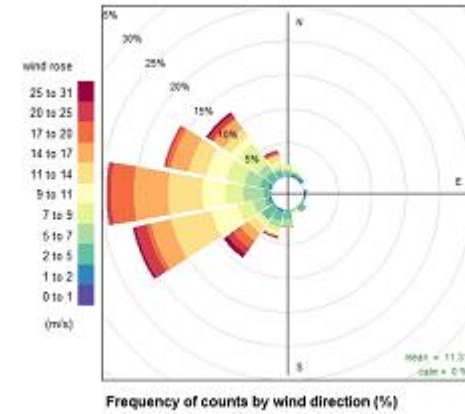
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349-11	0	1	1.9	4.9	2.6	1	0	0	0	0	0	0
12-33		0.6	1.9	9.4	3.6	1	0.6	0	0	0	0	0
34-56		1.3	1.3	7.1	4.5	2.3	0.3	0.3	0	0	0	0
57-78		1.6	2.3	5.8	2.9	0.3	0.6	0	0	0	0	0
79-101		0	0.3	2.9	1.6	0.6	0.3	0	0	0	0	0
102-123		0	1	2.9	1	0.6	0	0	0	0	0	0
124-146		1	0.6	2.6	0.3	0	0	0	0	0	0	0
147-168		0.3	0.6	0.6	0.3	0	0	0	0	0	0	0
168-191		0.3	0	1	0.3	0	0	0	0	0	0	0
192-213		0.3	0.6	0.3	0.6	0.3	0	0	0	0	0	0
214-236		0.3	0	1.3	0.3	0	0	0	0	0	0	0
237-258		0	0.3	1.3	0	0	0	0	0	0	0	0
259-281		0	0	1.6	0.6	0	0	0	0	0	0	0
282-303		0	0.6	1	0	0	0	0	0	0	0	0
304-326		0.6	0.6	1.6	0.3	0	0	0	0	0	0	0
327-348		1.3	0.6	4.5	0.3	0	0	0	0	0	0	0



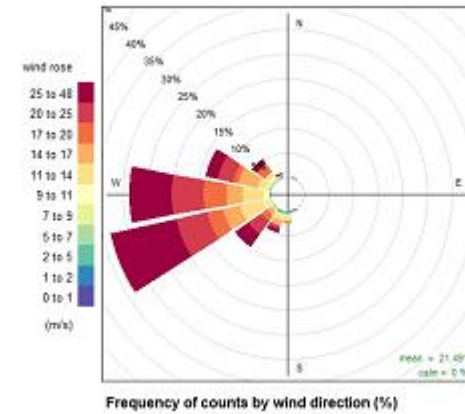
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349-11	0	0.3	0	3.6	1	1	0.7	0	0	0	0	0
12-33		0	0	3.6	1.7	1	0	0.3	0	0	0	0
34-56		0	0.3	1	0.3	0.3	0	0	0	0	0	0
57-78		0.3	0	1	0.3	0.3	0	0	0	0	0	0
79-101		0.3	0.3	1.7	0.7	0.3	0.3	0	0	0	0	0
102-123		0.3	0.3	1.3	0	0	0	0	0	0	0	0
124-146		0.3	0.3	1.7	0	0.3	0	0	0	0	0	0
147-168		0	0.3	1	0	0	0	0	0	0	0	0
168-191		0.3	0	0.3	0.7	0	0	0	0	0	0	0
192-213		0	0.3	2.6	0	1	0.3	0	0	0	0	0
214-236		0	1.3	3.6	1.7	1	1	0	0	0	0	0
237-258		0.3	0.7	5.3	4.6	1	0.3	0	0.3	0	0	0
259-281		0	1	4	3	4.3	2.3	1	0	0	0	0
282-303		0	0.3	3.6	3	1.3	0.7	1	0.3	0	0	0
304-326		0	0.7	4.3	2.3	2.3	0.3	0.7	0	0	0	0
327-348		0.3	0.3	3	2	2.6	1	0	0	0	0	0



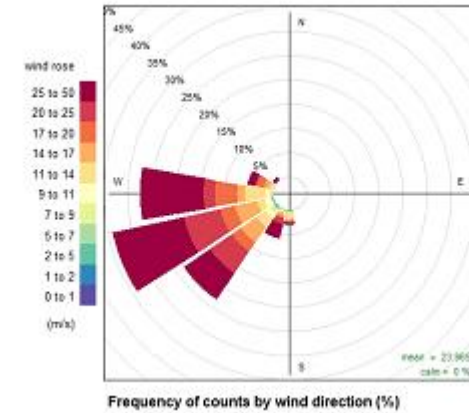
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12-33		0	0.3	0.3	0	0.3	0.3	0	0	0	0	0
34-56		0	0.3	0.3	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0.3	0	0	0.3	0	0	0	0	0	0	0
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237-258		0	0.3	0.7	1.7	2.4	4	6.1	3	0.7	1.7	0.3
259-281		0	0	1	3	2.7	3.4	5.1	5.1	3.4	0.7	0
282-303		0	0.3	1.3	2.4	2.7	3	2.7	2.7	0.7	0.3	0
304-326		0	0	1.3	1.3	3.7	1.3	1.3	1.7	0.3	0.7	0.3
327-348		0	0	1	0.3	0.7	0.3	1	0	0.3	0.3	0



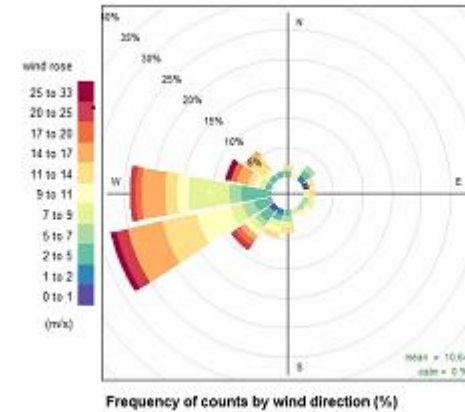
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
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12-33		0	0	0.4	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
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168-191		0	0	0.7	0	0.4	0	1.1	0	0.4	0	0
192-213		0	0	0.7	0	0	0.4	1.1	1.1	0	0.7	0.7
214-236		0	0	0	0.4	0	0	0.4	1.1	1.4	3.2	3.2
237-258		0	0	0	0	1.4	0.4	4.7	3.6	3.2	6.5	13.6
259-281		0	0	0.4	0	0	1.1	4.3	3.2	4.7	6.5	8.6
282-303		0	0	0	0.4	1.1	0	1.4	3.9	1.1	3.2	2.5
304-326		0	0	0	0.4	0	0.7	1.1	0	1.8	0.4	1.1
327-348		0	0	0.4	0	0.4	0	0	0	0	0	0.4



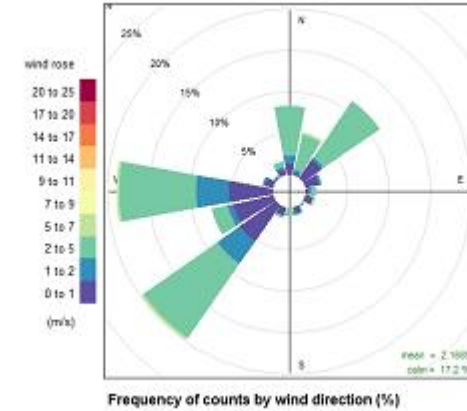
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	0	0	0	0	0	0	0	0	0	
12-33		0	0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.4	0	0	0	0	1.5	0.4	0	0.4	0.4
192-213		0	0	0	0.4	0	0.4	0	0.8	0.4	1.2	3.1	
214-236		0	0	0.4	0.4	0.8	1.2	2.3	3.9	2.3	5.4	6.6	
237-258		0	0	0.4	0	0	1.5	1.5	4.6	3.1	7.7	15.1	
259-281		0	0	0	0	0.8	0.8	4.2	1.5	4.6	2.3	13.1	
282-303		0	0	0	0	0	0	0.8	1.2	1.5	0.4	1.5	
304-326		0	0	0	0	0	0	0	0	0	0	0.8	
327-348		0	0	0	0	0	0	0	0	0	0	0	0



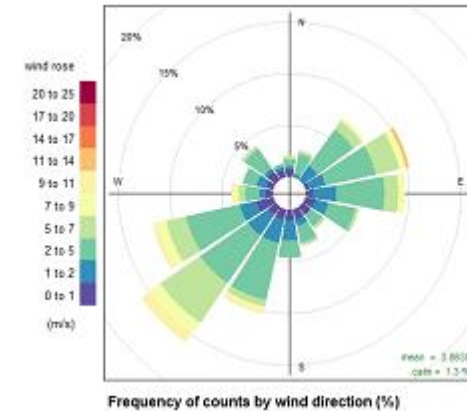
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	1	0	0	0	1	0	0	0	0	
12-33		0	0	0	0	0	0	1	0	0	0	0	0
34-56		0	1	1	1	0	0	0	0	0	0	0	0
57-78		1	0	0	0	0	0	0	1	0	0	0	0
79-101		0	0	0	0	0	1	0	1	0	0	0	0
102-123		0	0	0	0	1	1	0	0	0	0	0	0
124-146		0	0	0	0	1	0	1	0	0	0	0	0
147-168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



Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	17	1.3	1	6	0	0	0	0	0	0	0	0
12-33		0.3	0.3	4.3	0.3	0	0	0	0	0	0	0
34-56		2.6	0.3	8.3	0	0	0	0	0	0	0	0
57-78		1.7	0.3	0	0	0	0	0	0	0	0	0
79-101		0.3	0.3	0.7	0	0	0	0	0	0	0	0
102-123		1	0	0	0.3	0	0	0	0	0	0	0
124-146		0	0	0.3	0	0	0	0	0	0	0	0
147-168		0.7	0.3	0	0	0	0	0	0	0	0	0
168-191		0	0	1	0	0	0	0	0	0	0	0
192-213		1	0	0.3	0	0	0	0	0	0	0	0
214-236		5.3	3.3	10.9	0.3	0	0	0	0	0	0	0
237-258		5	0.7	2	0	0	0	0	0	0	0	0
259-281		5.3	4	9.3	0.3	0	0	0	0	0	0	0
282-303		1	0.3	0	0	0	0	0	0	0	0	0
304-326		0	0.3	0	0	0	0	0	0	0	0	0
327-348		0.7	0.3	0.7	0	0	0	0	0	0	0	0



Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.7	0.3	0.7	0.3	0	0	0	0	0	0	0
12-33		0	0.3	2	0.3	0	0	0	0	0	0	0
34-56		0	1.7	4.3	1	0.3	0	0	0	0	0	0
57-78		0.3	1.7	5	2.3	0.7	0	0.3	0	0	0	0
79-101		0.7	2.3	4.7	1.3	0.7	0	0	0	0	0	0
102-123		1	1.3	2.7	0.3	0	0	0	0	0	0	0
124-146		1	0	1.3	0.3	0	0	0	0	0	0	0
147-168		1	0.7	1.7	0.3	0	0	0	0	0	0	0
168-191		1	2	1.7	0	0	0	0	0	0	0	0
192-213		1	2.3	5.6	0.7	0.3	0.3	0	0	0	0	0
214-236		1	2.3	5.6	4.7	1.3	1	0	0	0	0	0
237-258		1.7	1.7	5.3	2	1	0.3	0	0	0	0	0
259-281		0.7	0.7	1.3	0.7	0.3	0.3	0	0	0	0	0
282-303		0.7	1	1.3	0	0	0	0	0	0	0	0
304-326		1	0.3	2.3	0.3	0	0	0	0	0	0	0
327-348		0.7	0.3	0.3	0	0	0	0	0	0	0	0

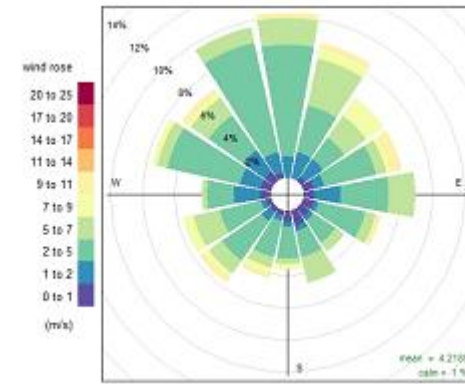


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February

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	1.3	7	1.7	0	0.3	0	0	0	0	0
12-33		0	1.7	3	3	0.7	0.3	0	0	0	0	0
34-56		0.3	1.3	1.7	1.7	1.3	0	0	0	0	0	0
57-78		0.7	0.7	3.3	0.7	0.3	0.7	0	0	0	0	0
79-101		0.7	1.7	3	1.7	0	0	0	0	0	0	0
102-123		0.7	0.3	3	0.7	0	0.3	0	0	0	0	0
124-146		0.7	0.3	1.7	0.7	0	0	0	0	0	0	0
147-168		1	0.3	1.3	1.7	0	0	0	0	0	0	0
168-191		0.7	0.3	2.3	0.3	0.3	0	0	0	0	0	0
192-213		0.3	0.3	2.3	0.7	0.3	0.3	0	0	0	0	0
214-236		0.3	0.7	3	1	0.3	0.3	0	0	0	0	0
237-258		0.3	0.3	2.6	1.7	0.7	0	0	0	0	0	0
259-281		0.7	1.7	1.7	0.3	0	0	0	0	0	0	0
282-303		0.7	1.3	4.6	0.7	0.3	0	0	0	0	0	0
304-326		0.7	1.7	2.6	1.3	0.3	0.3	0	0	0	0	0
327-348		0.3	1.3	7	1	0	0	0	0	0	0	0



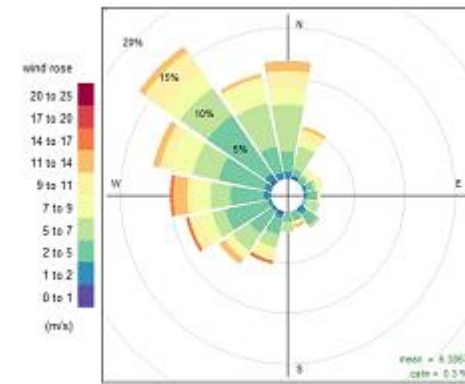
Frequency of counts by wind direction (%)

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February

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.7	2	4.7	1.7	1.7	1	0	0	0	0
12-33		0.3	0	0.7	2.3	0.7	1	0.3	0	0	0	0
34-56		0	0	0.7	0.3	0.3	0.3	0	0	0	0	0
57-78		0	0.3	0.7	0.3	0.7	0	0	0	0	0	0
79-101		0	0.3	1	0	0.3	0	0	0	0	0	0
102-123		0	0	0.3	1.3	0	0	0	0	0	0	0
124-146		0	0.7	1.3	0.3	0	0	0	0	0	0	0
147-168		0	0	1	0	0	0.3	0	0	0	0	0
168-191		0	0	1	1	0	0	0.3	0	0	0	0
192-213		0.3	0.3	1.7	1.3	0.7	0.7	0	0.3	0	0	0
214-236		0	0.3	2.7	2	0.7	0.3	0.7	0	0	0	0
237-258		0	0.3	4.3	1.3	1.3	1	0	0.3	0	0	0
259-281		0	0.7	3.3	2	1.7	0.7	1.3	0.3	0	0	0
282-303		0	0.7	4.7	2.7	2.3	1	0.7	0	0	0	0
304-326	0.3	0.7	7	3.3	2	2.3	0.7	0	0	0	0	
327-348	0	0.7	2.7	4.3	2.3	0.3	0.3	0	0	0	0	



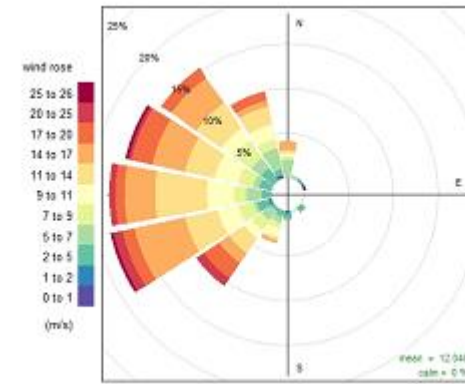
Frequency of counts by wind direction (%)

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February

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	2	0.3	0.3	0.3	1	0	0	0
12-33		0	0	0	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		0.3	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	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0.7	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0.3	0	0	0	0	0	0
168-191		0	0.3	0.7	0	0	0	0	0	0	0	0
192-213		0	0	0.7	0.7	0.7	1	0.3	0.3	0	0	0
214-236		0	0	0.3	1.4	1.4	1	2	1.4	2	1	0
237-258		0	0.3	1.4	0.3	1.7	2.4	3.8	5.8	1.4	1	0.3
259-281		0	0	1	1.7	1.4	3.1	5.8	3.4	1	0.7	0
282-303		0	0	1.4	0.7	1.7	2.7	3.4	3.8	2.4	0.3	0.3
304-326		0	0	1.7	1.4	2.4	1.7	3.4	3.4	1.4	0	0
327-348		0.3	0	0.7	2.4	1	1.7	2	0.7	1	0	0



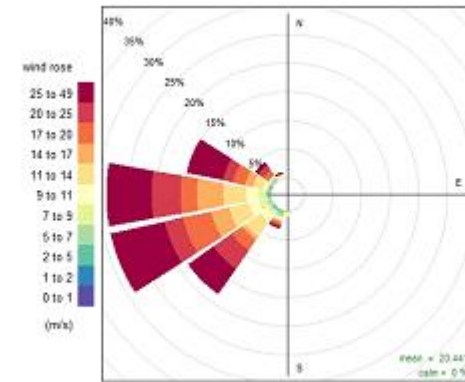
Frequency of counts by wind direction (%)

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February

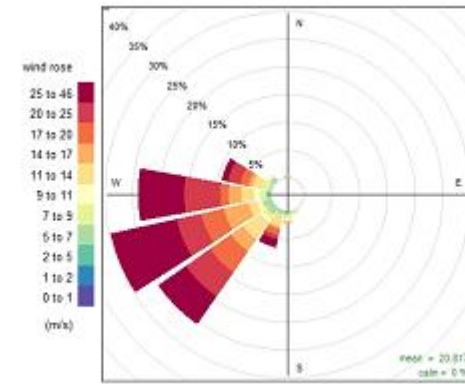
300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0.4	0.4	0.4	0	0	0	0
192-213		0	0	0.4	0.7	0.4	0.4	0	0.4	0.4	0.4	0.4
214-236		0	0	0.4	0.4	0.7	1.4	3.2	0.7	2.2	3.9	5.4
237-258		0	0	0	0.7	1.4	1.8	3.6	3.2	5	3.2	9.7
259-281		0	0	0.7	0	1.4	2.2	3.9	4.7	2.9	5	7.9
282-303		0	0	0.4	0.4	0	0.7	1.8	1.4	2.2	1.8	6.5
304-326		0	0	0	0.7	0	0.4	0	0	1.1	1.1	0.7
327-348		0	0	0	0	0	0.4	0.4	0	0	0	0.4



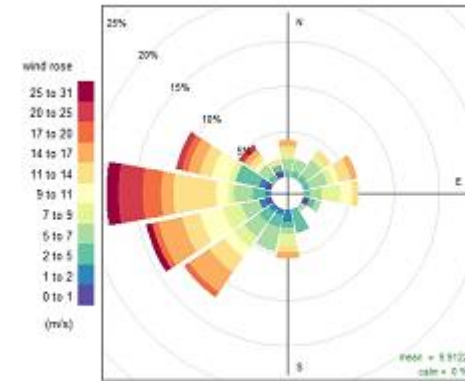
Frequency of counts by wind direction (%)

Speed Direction	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	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0.8	0	0	0
168-191		0	0	0.4	0.4	0.8	0.4	0	0.4	0	0	0
192-213		0	0	0	0.8	0	0	2.3	0.4	1.1	0.8	1.5
214-236		0	0	0	1.5	0.8	0.8	3.8	2.7	4.6	5.3	6.1
237-258		0	0	0	1.5	0.4	0.8	1.5	4.6	4.2	4.6	12.2
259-281		0	0	0.8	0	1.1	1.1	2.3	2.3	1.5	6.5	8.4
282-303		0	0	0	0.4	1.5	0	1.5	0.8	1.5	2.3	1.1
304-326		0	0	0	0.8	0.4	0.4	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Frequency of counts by wind direction (%)

Speed Direction	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	0.7	0	0.7	0.7	0	0	0
12-33		0	0	0.7	1.4	0	0	0	0	0	0	0
34-56		0	0	0.7	2	0.7	0	0.7	0	0	0	0
57-78		0	0	0.7	2	0.7	0.7	1.4	0.7	0	0	0
79-101		0	0	0.7	1.4	2	1.4	0.7	0	0	0	0
102-123		0.7	0	0.7	0.7	0	0	0	0	0	0	0
124-146		0	0	0	0.7	0	0	0	0	0	0	0
147-168		0	0	2.7	0	0	0	0	0	0	0	0
168-191		0	1.4	0.7	0.7	1.4	0	0.7	0.7	0	0	0
192-213		0	0.7	1.4	2.7	0	0	0	0	0	0	0
214-236		0	0.7	1.4	2	1.4	1.4	2	2.7	0.7	0	0
237-258		0.7	0.7	0	2	2	2.7	2	2.7	0.7	0	0.7
259-281		0	0.7	1.4	2	0.7	1.4	4.7	1.4	2	2.7	1.4
282-303		0.7	0.7	2.7	0	0.7	2	1.4	1.4	0.7	0.7	0
304-326		0	0	0.7	1.4	0	0.7	0.7	0.7	0	0.7	0
327-348		0.7	0	0.7	0	0	0	0	0.7	0	0	0

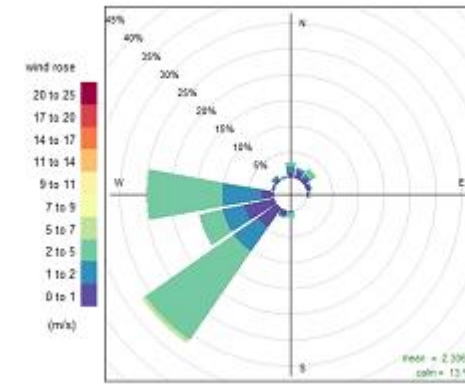


Frequency of counts by wind direction (%)

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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	13	1.1	1.1	0.8	0	0	0	0	0	0	0	0
12-33		1.4	0.5	0.3	0	0	0	0	0	0	0	0
34-56		1.1	0.5	1.1	0.3	0	0	0	0	0	0	0
57-78		0.8	0.3	0	0	0	0	0	0	0	0	0
79-101		0.3	0.3	0.3	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	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	0.5	0.8	0	0	0	0	0	0	0	0
192-213		1.1	0.3	0.3	0	0	0	0	0	0	0	0
214-236		4.6	5.7	20.9	0.8	0	0	0	0	0	0	0
237-258		6	4.3	4.6	0	0	0	0	0	0	0	0
259-281		2.4	7.6	14.6	0	0	0	0	0	0	0	0
282-303		0.3	0.3	0	0	0	0	0	0	0	0	0
304-326		0.5	0.5	0.3	0	0	0	0	0	0	0	0
327-348		0	0.3	0.3	0	0	0	0	0	0	0	0

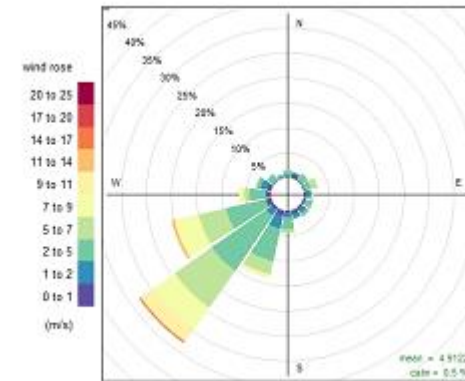


Frequency of counts by wind direction (%)

Visakhapatnam

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	0.5	0.8	0.3	0	0	0	0	0	0	0
12-33		0.8	0.3	0.3	0	0	0	0	0	0	0	0
34-56		0	0.3	1.3	0.3	0	0	0	0	0	0	0
57-78		0.3	0	1.3	1.3	0	0	0	0	0	0	0
79-101		0.5	0.8	0.3	0.3	0	0	0	0	0	0	0
102-123		0.5	0	1.3	0.3	0	0	0	0	0	0	0
124-146		0.5	0.8	0.8	0	0	0	0	0	0	0	0
147-168		0.5	0.8	0.3	0	0	0	0	0	0	0	0
168-191		0.8	0.8	2.4	0.8	0	0	0	0	0	0	0
192-213		1.1	2.7	6.6	2.7	0.5	0.3	0	0	0	0	0
214-236		0.5	1.3	13.3	9	5.3	2.9	0.3	0.3	0	0	0
237-258		1.1	0	8.2	5.6	4.5	0.5	0.5	0	0	0	0
259-281		0.8	0.3	3.2	1.1	1.1	0	0	0	0	0	0
282-303		0.8	1.3	0.8	0.3	0	0	0	0	0	0	0
304-326		0	0.3	1.3	0	0	0	0	0	0	0	0
327-348		0	0.5	0.8	0.3	0	0	0	0	0	0	0

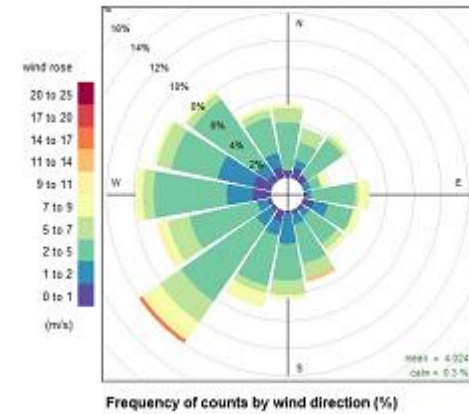


Frequency of counts by wind direction (%)

Visakhapatnam

March 850 hPa level

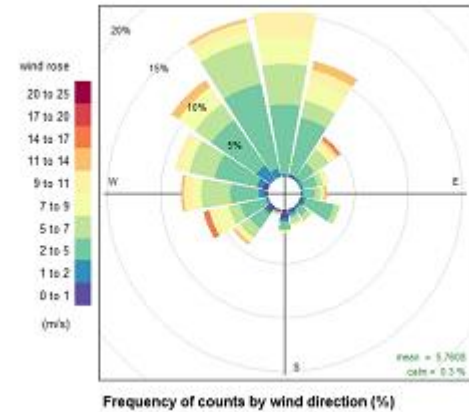
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.5	0	3.5	1.1	0.3	0	0	0	0	0	0
12-33		0.8	0.5	1.3	1.1	0	0	0	0	0	0	0
34-56		0.5	0	3.2	0.3	0.3	0	0	0	0	0	0
57-78		0	0.5	0.8	0	0.5	0	0	0	0	0	0
79-101		0.3	0.3	3.2	0.3	0.5	0.3	0	0	0	0	0
102-123		0.8	1.1	1.9	0	0.5	0	0	0	0	0	0
124-146		0.3	0.5	2.4	0.5	0.3	0	0	0	0	0	0
147-168		0.3	0.8	2.7	1.1	0	0	0.3	0	0	0	0
168-191		0.3	2.1	2.9	1.1	0.3	0	0	0	0	0	0
192-213		0.8	1.1	3.7	0.5	1.1	0	0	0	0	0	0
214-236		0.3	1.3	6.7	1.9	1.1	0.5	0	0.3	0	0	0
237-258		0.3	0.8	5.1	1.6	0.5	0.3	0	0	0	0	0
259-281		1.3	1.9	5.3	0.8	0.5	0	0	0	0	0	0
282-303		1.3	2.7	3.5	1.1	0.3	0	0	0	0	0	0
304-326		0.5	1.1	5.6	0.5	0.3	0	0	0	0	0	0
327-348		0.5	0	3.5	1.1	0.3	0	0	0	0	0	0



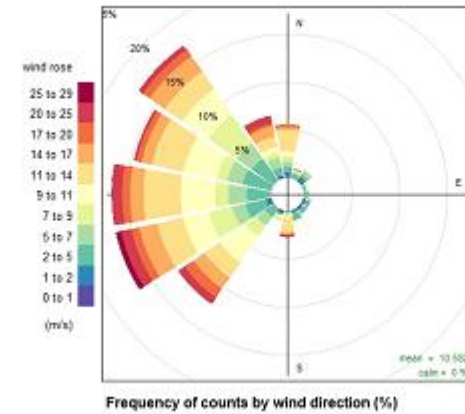
Visakhapatnam

March 700 hPa level

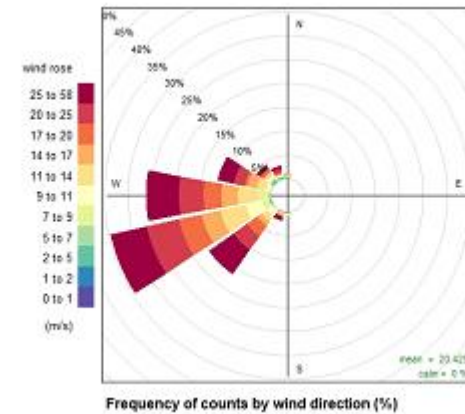
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	6.5	3.8	2.4	2.4	0	0	0	0	0
12-33		0.3	0	5.4	1.6	1.9	1.1	0.8	0	0	0	0
34-56		0	0.3	1.6	1.6	0.3	0.5	0.3	0.3	0	0	0
57-78		0	0.3	1.3	0.5	0.3	0.3	0	0	0	0	0
79-101		0	0.3	1.1	0.5	0.3	0	0.3	0	0	0	0
102-123		0.3	0.3	2.7	0.5	0	0	0	0	0	0	0
124-146		0	0.3	0.8	0.5	0	0	0	0	0	0	0
147-168		0.3	0.3	0.3	0.5	0.3	0	0	0	0	0	0
168-191		0.8	0.3	0.8	0	0.3	0	0	0	0	0	0
192-213		0	0.3	0	0	0	0	0.3	0	0	0	0
214-236		0.5	0.3	1.6	1.1	0.3	0.3	0.3	0	0	0	0
237-258		0	0.3	2.4	1.1	1.3	0.5	0	0.5	0	0	0
259-281		0.3	0.5	2.7	2.7	0.8	0.8	0.3	0	0	0	0
282-303		0.5	0.5	4	2.4	0.8	0.5	0	0	0	0	0
304-326		0	1.6	5.1	1.9	1.9	0	0.8	0	0	0	0
327-348		0	0.8	8.1	4	1.1	0.8	0.3	0	0	0	0



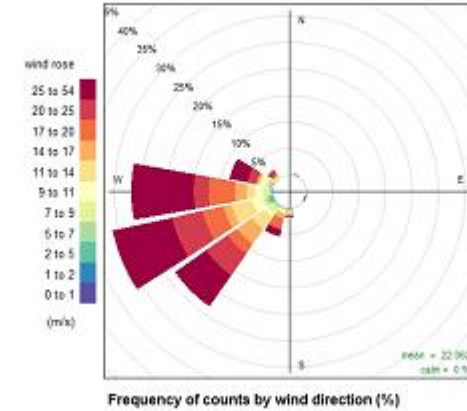
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.6	0.6	0.6	0.6	0.6	2.2	0.3	0.3	0	0
12-33		0	0	0.6	0	0.3	0	0	0.3	0	0	0
34-56		0	0.6	0.3	0.6	0	0	0	0	0	0	0
57-78		0	0	0.3	0	0	0	0.3	0	0	0	0
79-101		0	0	0.6	0	0	0	0	0	0	0	0
102-123		0.3	0	0.6	0	0	0	0	0	0	0	0
124-146		0.3	0	0.6	0	0	0	0	0	0	0	0
147-168		0	0.3	0.8	0	0	0.3	0	0	0	0	0
168-191		0	0	0.3	0	0.6	0	1.4	0.3	0	0.3	0
192-213		0.3	0	0.3	0	0	0.3	0.3	0	0	0	0
214-236		0	0	1.1	1.1	1.4	3.3	1.9	1.4	1.1	0.8	0
237-258		0.3	0.3	2.2	1.4	2.5	2.8	2.8	1.9	0.8	1.1	0.6
259-281		0	0	2.5	1.9	1.4	3.6	3.9	1.4	0.8	1.1	0
282-303		0	0	3	1.7	1.1	3.6	3.3	1.1	0.6	0.3	0
304-326		0	0	2.8	1.9	3.6	3.3	2.2	1.9	0.8	0.6	0
327-348		0.3	0	0.8	1.1	0.6	0.6	1.1	1.1	0.3	0.8	0



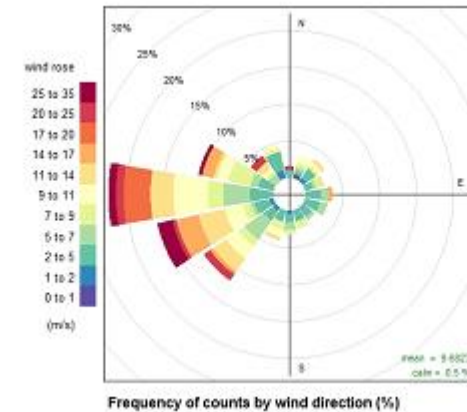
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.3	0	0.3	0	0	0.6	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.3	0	0.3	0	0.3	0	0	0	0
192-213		0	0	0.3	0	0	0	0.3	0.3	0.3	0	0.9
214-236		0	0	0	0	0.3	1.4	1.4	1.1	2.6	3.4	6.3
237-258		0	0	0.3	0.3	1.4	3.4	5.5	4	4.9	6.9	7.8
259-281		0	0	0	0.6	2.3	0	4	3.4	3.7	5.2	6.9
282-303		0	0	0	0	0.3	0.9	2	2	0.6	2.3	3.4
304-326		0	0	0.6	0.3	0	0.9	0.6	0.3	0.6	0.3	0.9
327-348		0	0	0.6	0	0	0.6	0	0	0.3	0.9	0.6



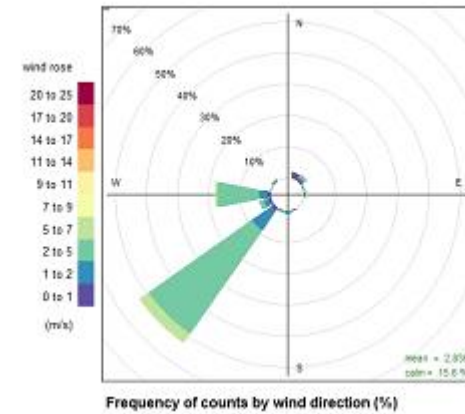
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	0	0	0	0	0	0	0	0	0	
12-33		0	0	0.3	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0	0
102-123		0.3	0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0.3	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.3	0.3	0	0	0.3	0.6	0	0.3	0	0
192-213		0	0	0	0.3	0.3	0.3	0.3	0.9	1.9	0.3	1.2	0
214-236		0	0	0	0.6	1.2	0.9	2.8	3.4	2.2	5	7.1	0
237-258		0	0	0.9	0.6	0.6	1.9	4	1.6	4	5.9	11.5	0
259-281		0	0	0.3	0.3	1.2	1.6	1.6	2.2	5	2.8	11.8	0
282-303		0	0	0	0.9	0.6	0.9	0.3	0.3	0.3	1.6	3.4	0
304-326		0	0	0	0	0	0	0.6	0	0.3	0.9	0	0
327-348		0	0	0	0	0	0	0.3	0	0	0	0	0



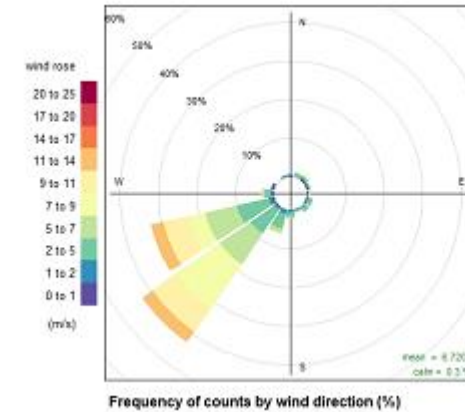
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	1	0	0	0	0	0	0	0.5	0	
12-33		0.5	0	0.5	0.5	0.5	1	0	0	0	0	0	0
34-56		0	0.5	1.6	0	0.5	0.5	0.5	0	0	0	0	0
57-78		0	0	1	0.5	0.5	0	0.5	0	0	0	0	0
79-101		0	0	2.1	1	0	0	0	0.5	0	0	0	0
102-123		0	0	2.1	1	0	0	0	0	0	0	0	0
124-146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



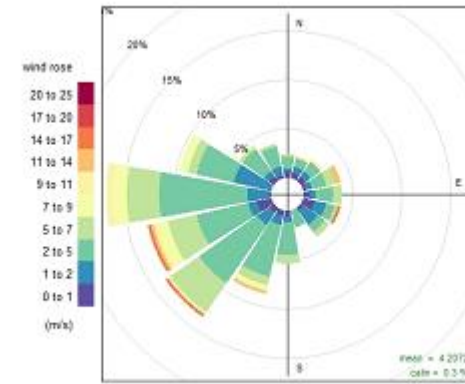
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	16	0	0	0	0	0	0	0	0	0	0	0
12-33		2	0	0	0	0	0	0	0	0	0	0
34-56		0.8	0.4	1.2	0	0	0	0	0	0	0	0
57-78		0.4	0	0	0	0	0	0	0	0	0	0
79-101		0	0.4	0.4	0.4	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0.4	0	0	0	0	0	0	0	0	0	0
168-191		0	1.2	0	0	0	0	0	0	0	0	0
192-213		0.4	0	0.4	0	0	0	0	0	0	0	0
214-236		1.2	7.6	40.4	3.6	0	0	0	0	0	0	0
237-258		0.8	1.6	1.6	0	0	0	0	0	0	0	0
259-281		1.2	2.4	13.6	0.8	0	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



Speed Direction	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	0	0	0	0	0	0	0	0
12-33		0	0	1.2	0	0	0	0	0	0	0	0
34-56		0.6	0	0.6	0.3	0.6	0	0	0	0	0	0
57-78		0.3	0.6	0	0	0.3	0	0	0	0	0	0
79-101		0.3	0	0.3	0	0	0.3	0	0	0	0	0
102-123		0.3	0.3	1.2	0	0	0	0	0	0	0	0
124-146		0	0	1.8	0	0	0	0	0	0	0	0
147-168		0	0.3	0.6	0	0	0	0	0	0	0	0
168-191		0	0.6	1.2	0.6	0	0	0	0	0	0	0
192-213		0	1.2	3.9	1.2	0.3	0	0	0	0	0	0
214-236		0.3	0.6	7.5	9.6	13.8	7.5	3.3	0	0	0	0
237-258		0.6	0.9	8.4	8.4	4.5	6.6	3.3	0	0	0	0
259-281		0.3	0.6	1.5	0.6	0.3	0	0	0	0	0	0
282-303		0.6	0.3	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0.3	0	0.3	0	0	0	0	0	0	0	0

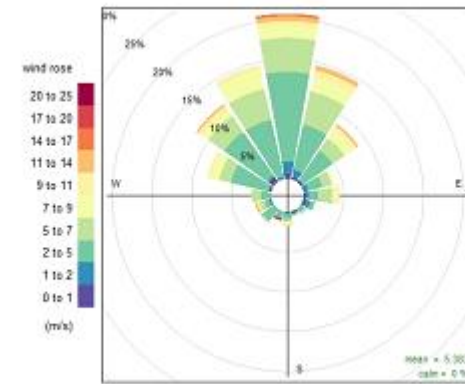


Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	0.3	1.2	0.3	0	0	0	0	0	0	0
12-33		0.6	0.6	0.9	0	0	0.3	0	0	0	0	0
34-56		0.6	0.6	1.2	0	0	0.3	0	0	0	0	0
57-78		0.3	0.6	1.5	0.9	0	0	0.6	0	0	0	0
79-101		0.6	0.6	1.8	0.9	0	0	0	0	0	0	0
102-123		1.2	1.2	0.9	0.3	0	0	0	0.3	0	0	0
124-146		0.3	1.8	0.9	0.6	0	0	0	0	0	0	0
147-168		0	0	1.8	0	0	0	0	0	0	0	0
168-191		0.6	0.6	3.3	0.9	0	0	0	0	0	0	0
192-213		0.6	0.9	5.4	0.9	0.3	0.3	0.3	0	0	0	0
214-236		0.6	1.5	7.2	3.6	0	0.3	0	0.3	0	0	0
237-258		1.5	0.9	5.4	3	1.2	0.3	0.3	0.3	0	0	0
259-281		0.3	2.1	9	3.3	1.5	0.6	0	0	0	0	0
282-303		0	3.9	3.9	0.9	0.9	0	0	0	0	0	0
304-326		0.6	0.6	2.7	0.3	0.3	0	0	0	0	0	0
327-348		0.3	0.9	2.1	0.3	0	0	0	0	0	0	0



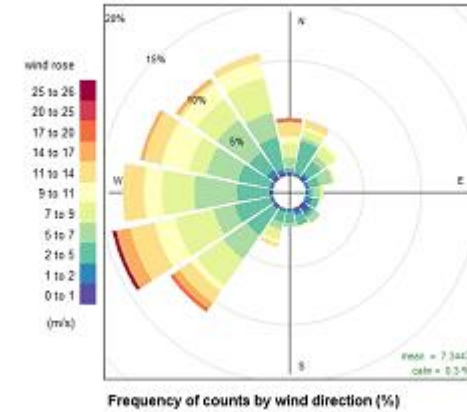
Frequency of counts by wind direction (%)

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	1.5	11.2	4.3	1.5	0.6	0.6	0.3	0	0	0
12-33		0.3	0.9	5.8	4.3	1.8	0.9	0.6	0	0	0	0
34-56		0.3	0	4.6	1.8	1.2	0.6	0.3	0	0	0	0
57-78		0	0.6	1.8	1.2	0.3	0	0	0	0	0	0
79-101		0.3	0.3	1.2	1.8	0.6	0.3	0	0	0	0	0
102-123		0.3	0.6	0.6	0	0	0	0	0	0	0	0
124-146		0	0	0.6	0.3	0	0	0	0	0	0	0
147-168		0.3	0	0.3	0	0	0	0	0	0	0	0
168-191		0	0.3	0.6	0.3	0.3	0.3	0	0	0	0	0
192-213		0	0	0.9	0	0	0	0	0	0.3	0	0
214-236		0	0	1.8	0.3	0	0	0	0	0	0	0
237-258		0	0.3	0.6	0.6	0	0.3	0.3	0	0	0	0
259-281		0	0	1.2	1.2	0	0	0	0	0	0	0
282-303		0.3	0	4.9	1.5	1.2	0.3	0	0	0	0	0
304-326		0.6	0.3	6.7	2.4	0.9	0.6	0.3	0	0	0	0
327-348		0	0.3	7.3	4	2.4	0.6	0	0	0	0	0

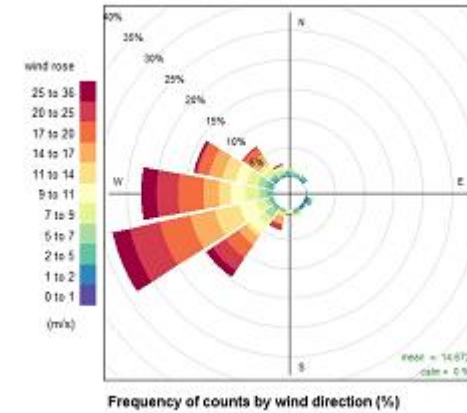


Frequency of counts by wind direction (%)

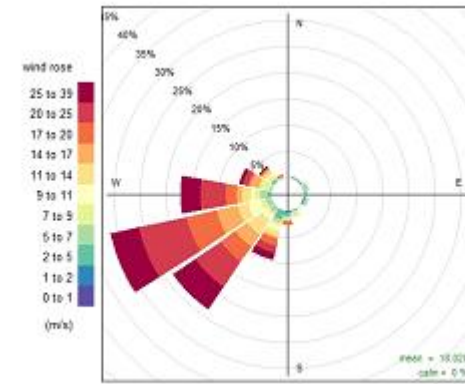
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	0	0.3	0.9	1.2	0.6	1.2	0	0.3	0	0
12-33		0	0.3	2.8	0.3	0.6	0.3	0.6	0	0	0	0
34-56		0.3	0.3	1.2	0.6	0.9	0.3	0	0	0	0	0
57-78		0	0.3	0.9	1.2	0	0.3	0	0	0	0	0
79-101		0	0.3	0.3	0.6	0.3	0	0	0	0	0	0
102-123		0	0.6	0.6	0	0	0	0	0	0	0	0
124-146		0.6	0.3	0.3	0.6	0	0	0	0	0	0	0
147-168		0.3	0.3	0.9	0	0	0.3	0	0	0	0	0
168-191		0	0.3	0.9	0.3	0	0	0	0	0	0	0
192-213		0	0.3	0.9	0.6	0.9	0.3	0.3	0	0	0	0
214-236		0.3	0	2.8	2.5	2.8	0.6	1.2	0.6	0.3	0	0
237-258		0	0.3	3.1	1.9	3.4	1.9	2.2	1.2	0	0	0.3
259-281		0.3	0	2.8	3.7	2.8	1.6	1.9	0	0	0	0
282-303		0	0.3	2.8	2.8	1.6	2.5	1.6	0.3	0	0	0
304-326		0.3	0.6	1.9	3.4	2.2	1.6	0.3	0.3	0	0	0
327-348		0.3	0.3	2.8	2.2	3.1	1.6	0.6	0	0	0	0



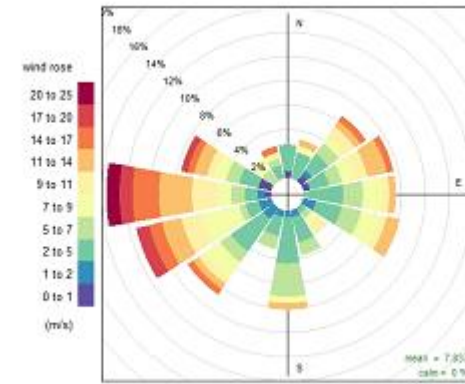
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	0.7	0	0.3	0	0	0	0	0	0
12-33		0	0	0.7	0	0	0	0.3	0	0	0	0
34-56		0	0.3	0.7	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0.3	0	0	0	0	0	0	0	0
102-123		0.3	0.3	0.7	0	0	0	0	0	0	0	0
124-146		0	0.7	0	0	0	0	0	0	0	0	0
147-168		0	0	0.7	0.3	0.3	0	0	0	0	0	0
168-191		0	0	0	0	0.7	0	0	0	0.3	0	0
192-213		0	0	0.3	0.3	0.3	0	0.3	1.3	0	1	0
214-236		0	0	0.7	1.7	1.3	2	0.7	1.7	2.6	2.6	1.3
237-258		0	0	0.7	0.7	1.7	3	4.3	4.3	5.3	5.3	3
259-281		0	0	1	1.3	2.3	2.6	2	2.6	4.3	3.6	2.6
282-303		0	0	1.3	1.3	2	2	2.3	2.3	2	0.3	0.3
304-326		0	0.3	0.7	0.3	1	0.7	0.7	1.7	1.3	0.3	0
327-348		0	0.3	0	0.7	0.7	0.3	0	0	0	0.3	0



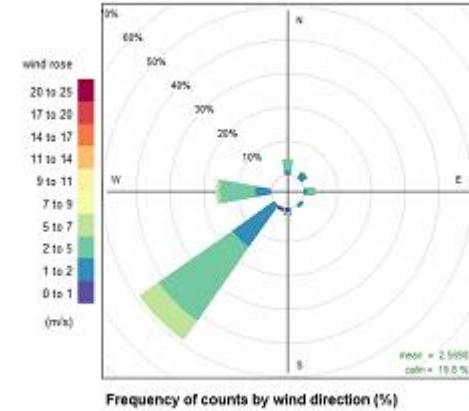
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	0	0	0	0	0	0	0	0	0	
12-33		0	0	0.3	0	0	0	0	0	0	0	0	0
34-56		0	0	0.3	0	0	0	0	0	0	0	0	0
57-78		0	0	0	1	0	0	0	0	0	0	0	0
79-101		0	0	0.7	0	0	0	0	0	0	0	0	0
102-123		0	0.3	0	0.7	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0.3	0	0	0	0	0	0
147-168		0	0	0.3	0	0	0	0	0.7	0	0	0	0
168-191		0	0.3	0.7	0.3	0.3	0.3	0.3	0	0.3	0.7	0	0
192-213		0	0	1.7	0.7	0.7	1	1	0.3	1.4	1.4	1.4	1.4
214-236		0	0	0	1	0.7	1	3.4	2.8	3.4	5.9	5.2	5.2
237-258		0	0	0	1	1	2.4	2.1	4.1	5.9	9.3	5.5	5.5
259-281		0	0	0.7	1.4	1	0.7	1.7	1	2.1	4.8	3.8	3.8
282-303		0	0	0	0.3	1.7	0	0.3	1.7	0.3	1	0.7	0.7
304-326		0	0	0.3	0.3	0.7	0.3	0.7	0.3	0.3	0	0.3	0.3
327-348		0	0	0	0	0	0	0	0.3	0.3	0	0	0



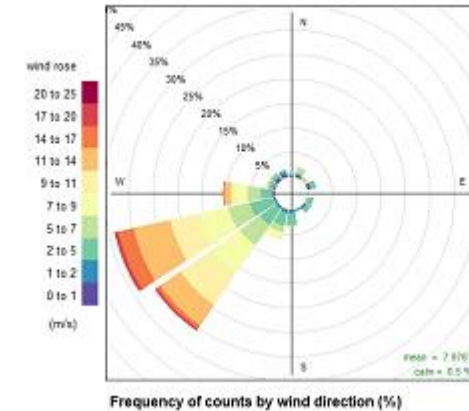
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0.5	0	1.6	0	0	0	0	0	0	0	0	
12-33		0	0	2.2	0	0.5	0	0.5	0	0	0	0	0
34-56		0.5	0.5	1.6	1.1	0.5	1.1	0.5	0.5	0	0	0	0
57-78		0.5	0	1.6	1.1	1.1	1.1	1.6	0.5	0	0	0	0
79-101		0	0	3.3	1.6	1.6	0.5	0.5	0	0	0	0	0
102-123		0	1.1	2.2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



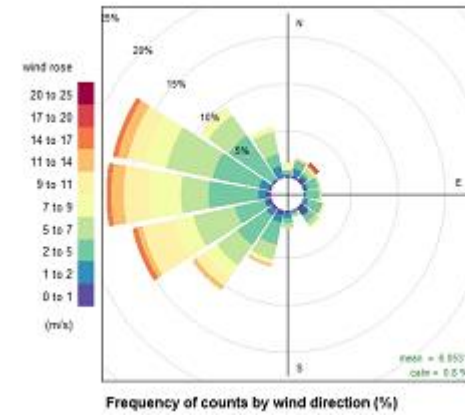
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	20	0	1.2	3.5	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	2.3	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	1.2	2.3	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	1.2	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		1.2	0	1.2	0	0	0	0	0	0	0	0
192-213		1.2	0	0	0	0	0	0	0	0	0	0
214-236		0	15.1	26.7	7	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	4.7	10.5	1.2	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



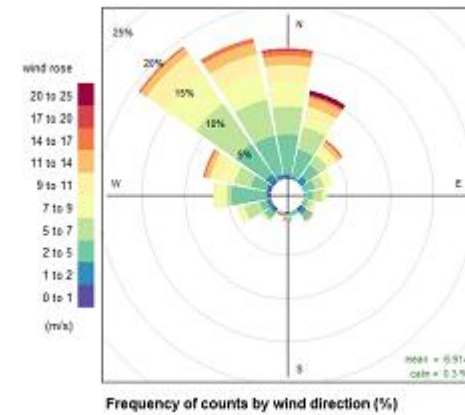
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	0.5	0	0	0	0	0	0	0	0
12-33		0.5	0	0.5	0.8	0	0	0.3	0	0	0	0
34-56		0	0	0	0.5	0	0	0.3	0	0	0	0
57-78		0.5	0.3	1.1	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	1.3	0	0	0	0	0	0	0	0
124-146		0.3	0.3	1.1	0	0	0	0	0	0	0	0
147-168		0	0.3	0.3	0	0	0	0	0	0	0	0
168-191		0	0.8	2.4	0.3	0	0	0	0	0	0	0
192-213		0	0.8	2.7	1.3	1.3	0.3	0	0	0	0	0
214-236		0	0.5	4	5	7.4	7.4	5	0.8	0.5	0	0
237-258		0.3	0	5	4.5	6.1	6.1	7.7	3.2	0.8	0	0
259-281		0.3	0.3	2.4	2.7	2.4	1.1	1.3	0.3	0	0	0
282-303		0.3	0	1.1	0.3	0	0	0.3	0	0	0	0
304-326		0.5	0.3	0.8	0.3	0.3	0	0	0	0	0	0
327-348		0.5	0.5	0.5	0	0	0	0	0	0	0	0



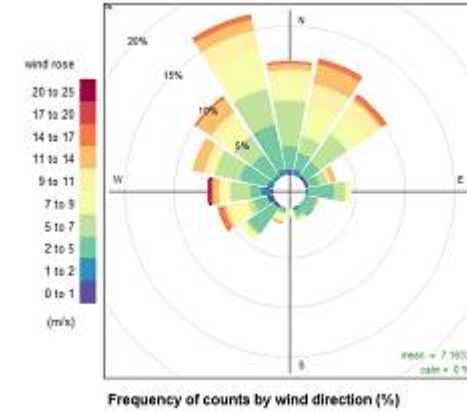
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	0	0.5	0	0.5	0.3	0	0	0	0	0
12-33		0.3	0.8	0.8	0	0	0	0.3	0	0	0	0
34-56		0.5	0.3	0.3	0.5	0.3	0	0	0.3	0.3	0	0
57-78		0.3	0.3	1.1	0.3	0	0	0	0	0	0	0
79-101		0	0.3	1.3	0.3	0	0	0	0	0	0	0
102-123		0	0.5	1.6	0	0	0.3	0	0	0	0	0
124-146		1.1	0	0.8	0.5	0.3	0	0	0	0	0	0
147-168		0	0.3	0.3	0.3	0	0	0	0	0	0	0
168-191		0.3	0.5	0.5	0.5	0	0	0	0	0	0	0
192-213		0.5	0.8	2.4	1.6	0.3	0.3	0.3	0	0	0	0
214-236		0.3	0.8	3.7	2.7	1.6	1.1	0.5	0	0	0	0
237-258		0.5	0.3	3.2	4.5	2.1	3.4	0.5	0.5	0	0	0
259-281		0.5	0.8	5.3	2.9	3.4	2.7	1.3	0.5	0	0	0
282-303		0.3	1.1	5	5	2.4	1.9	1.1	0.5	0	0	0
304-326		0.3	0	5.6	2.7	0.8	0.3	0	0	0	0	0
327-348		0	1.3	1.3	2.4	0.5	0	0	0	0	0	0



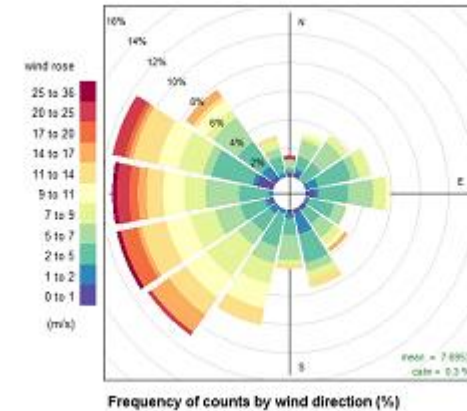
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	0.3	4.6	3.2	3	1.9	1.1	0.5	0.3	0	0
12-33		0	0.3	3.2	2.7	1.1	1.3	1.1	0.3	0	0.5	0
34-56		0	0.8	1.6	1.3	0.8	0.5	0.5	0.3	0	0	0
57-78		0	0	1.3	1.1	1.1	0	0	0	0	0	0
79-101		0	0	1.1	1.1	0.5	0	0	0	0	0	0
102-123		0	0	0.5	0.5	0	0.5	0	0	0	0	0
124-146		0.3	0.5	0.8	0	0	0	0.3	0	0	0	0
147-168		0	0	0.5	0	0	0	0	0	0	0	0
168-191		0	0.3	0.3	0.3	0.3	0	0	0	0.3	0	0
192-213		0	0	0	0.3	0	0	0	0	0.3	0	0
214-236		0.3	0.3	0.8	0.3	0.3	0	0	0	0	0	0
237-258		0	0.5	0.8	1.9	0.5	0.3	0	0	0	0	0
259-281		0.3	0.3	4	0.5	1.3	0.3	0	0	0	0	0
282-303		0.3	0.3	1.9	1.9	1.6	1.3	0.5	0.3	0	0	0
304-326		0.3	0.8	4.3	5.6	4.3	2.7	0.8	0.3	0	0	0
327-348		0	0.5	4.6	4.3	3.2	2.2	1.3	0.5	0	0	0



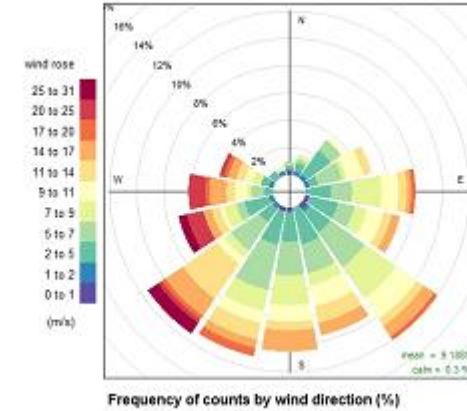
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	0.3	2.3	4.6	2.6	0.6	0.6	0.3	0	0	0
12-33		0	0.6	1.7	1.7	3.2	2.3	2	0.6	0	0	0
34-56		0.3	0	1.7	3.4	2.3	1.7	0.3	0.6	0	0	0
57-78		0.3	0	1.1	0.9	0.3	0	0.6	0	0	0	0
79-101		0	0.3	2.6	1.1	0.3	0.3	0	0	0	0	0
102-123		0	0	1.1	0	0	0	0.3	0	0	0	0
124-146		0	0	1.4	0	0	0	0	0	0	0	0
147-168		0	0.3	0.6	0.3	0	0.3	0	0	0	0	0
168-191		0	0	0	0.3	0.3	0.3	0	0	0	0	0
192-213		0	0	0.6	0	0.6	0.3	0.3	0	0	0	0
214-236		0.3	0	3.2	0.3	0.6	0	0	0	0	0	0
237-258		0.6	0	1.4	0.6	1.7	0.6	0.3	0.6	0	0	0
259-281		0.3	0.9	1.1	2	0.9	0.3	0.6	0.3	0	0.3	0
282-303		0	0.6	2.9	2.6	0.6	0.6	1.1	0	0	0	0
304-326		0	0.3	2.6	2.3	2	0.9	1.7	0.3	0	0	0
327-348		0	0.6	4.6	3.7	4	2	1.1	0.6	0	0	0



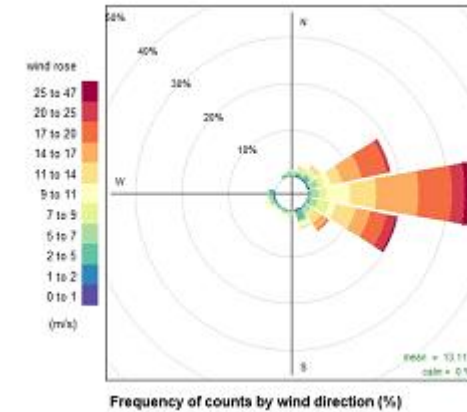
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	0	0.3	0.6	0	0	0	0	0	0.3	0
12-33		0.3	0.3	0.9	1.2	0.3	0.3	0	0	0	0	0
34-56		0	0	1.5	1.8	0.6	0	0	0	0	0	0
57-78		0	0.9	2.4	0.6	0.9	0	0	0	0	0	0
79-101		0.6	0.3	2.1	1.8	0.9	0.3	0	0	0	0	0
102-123		0	0.3	1.8	0.9	0	0	0	0	0	0	0
124-146		0.3	0	1.2	1.2	0.6	0.3	0	0.3	0	0	0
147-168		0.3	1.2	2.1	0.6	0.6	0	0.3	0	0	0	0
168-191		0.3	0.6	1.2	1.8	0.3	0	0.6	0	0	0	0
192-213		0	0.3	2.4	1.2	1.5	1.8	1.2	0	0	0	0
214-236		0	0.6	1.5	1.2	2.7	1.8	1.5	1.5	0	0.3	0
237-258		0.3	0.3	1.8	1.8	1.8	1.8	1.8	0.3	1.2	0	0.3
259-281		0	0.3	2.1	2.4	1.5	1.5	1.2	0.6	0.6	0.9	0.3
282-303		1.2	0.3	3	0.6	1.8	1.5	1.8	0.3	0.3	0.9	0
304-326		0.3	0.9	2.1	2.1	0.6	0.9	0.3	0.6	0	0	0
327-348		0	0.3	1.2	0.6	0.6	0	0.3	0	0	0	0



Speed Direction	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	0.3	0.3	0	0	0	0	0	0	0
12-33		0	0.3	0.6	0.3	0.3	0	0	0	0	0	0
34-56		0	0.3	2.2	0.9	0	0.3	0	0	0	0	0
57-78		0	0.3	0.6	1.9	0.3	1.2	0.6	0	0	0	0
79-101		0	0	1.9	1.5	2.2	1.2	0.6	0.3	0.3	0	0
102-123		0.3	0	2.2	1.2	0.9	1.2	0.6	0.6	0	0	0
124-146		0.3	0.3	1.9	3.1	2.8	1.9	0.6	0.9	0.3	0	0
147-168		0	0	2.8	2.2	0.9	1.5	0.9	0.9	0	0	0
168-191		0.3	0	2.2	2.5	2.2	1.2	0.9	1.5	0	0	0
192-213		0.3	0	2.5	3.4	1.5	0.9	1.2	0.6	0.6	0	0
214-236		0	0.3	1.2	2.5	0.6	0.6	3.1	1.5	0.3	0.3	0.9
237-258		0	0.3	1.9	0.6	0.9	0.3	0.6	0.6	0	1.2	0.6
259-281		0	0	0.6	0.9	0.3	0.9	0.6	1.2	0.3	1.2	0
282-303		0	0.3	0.6	0	0.6	0.6	0.6	0.6	0.3	0.3	0
304-326		0	0	0.6	0	0	0	0	0	0	0	0
327-348		0	0.3	0	0	0.3	0	0	0	0	0	0



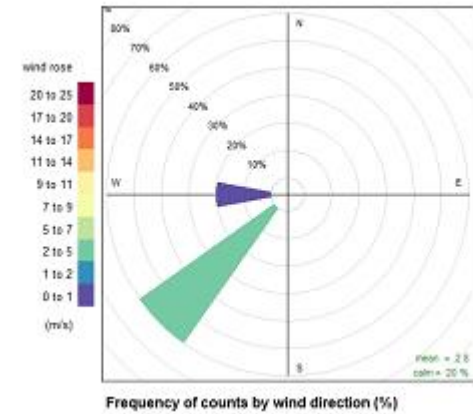
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.4	0.8	0.4	0	0	0	0	0	0
12-33		0	0.4	0.4	0.4	0.8	0	0.4	0	0	0	0
34-56		0	0.4	0.8	0.4	0.8	0.4	1.2	0	0	0	0
57-78		0.4	0	0	2	1.2	1.6	2.4	4.4	5.6	0.8	0
79-101		0	0	0.8	1.6	1.6	5.2	5.6	9.1	7.1	2.8	1.6
102-123		0	0	0.8	1.6	2.4	1.6	4.4	3.2	3.6	2	0.4
124-146		0	0	0.4	1.2	1.2	0	1.6	1.6	0.4	0	0
147-168		0.4	0	2	0.4	0	1.2	0.4	0	0	0	0
168-191		0	0	0.4	0.4	0	0	0.4	0	0	0	0
192-213		0	0	0.4	0.4	0.4	0	0	0	0	0	0
214-236		0	0	0.4	0.4	0	0	0	0	0	0	0
237-258		0	0.4	0	0.8	0.4	0.8	0	0	0	0	0
259-281		0	0.4	0.8	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	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.4	0.4	0	0	0	0	0	0	0



Visakhapatnam

June 1000 hPa level

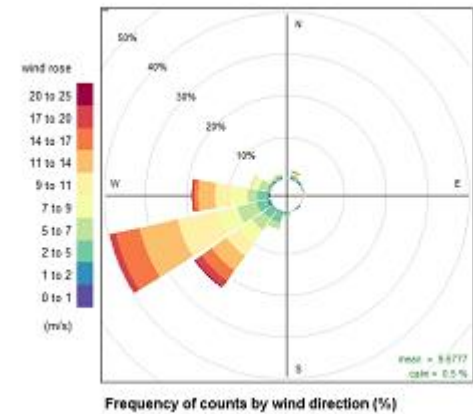
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	20	0	0	0	0	0	0	0	0	0	0	0	
12-33		0	0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	60	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0	0
259-281		20	0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0	0



Visakhapatnam

June 925 hPa level

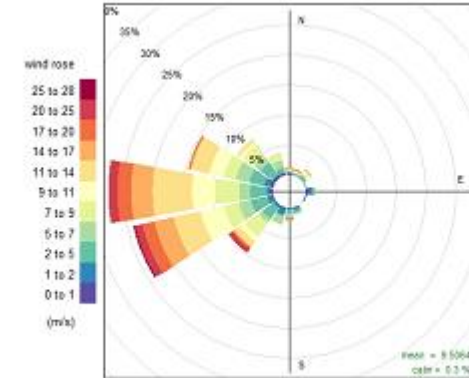
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	0	0	0.3	0	0	0	0	0	0	
12-33		0	0.3	0.8	0	0.5	0	0.3	0.3	0	0	0	0
34-56		0	0.3	0.3	0.3	0.3	0	0	0	0	0	0	0
57-78		0	0	0.3	0.3	0.3	0	0	0	0	0	0	0
79-101		0	0	0.3	0.3	0.3	0	0.3	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0	0
124-146		0.3	0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0.3	0.3	0	0	0	0	0	0	0
168-191		0	0.3	0.5	0.3	0.3	0	0	0.3	0	0	0	0
192-213		0	0.3	2.5	1.5	0.3	0	0	0	0	0	0	0
214-236		0	0	2.8	3.3	4.1	3.6	4.3	3	1.8	0.3	0	0
237-258		0	0.8	2.5	4.8	5.1	9.6	9.4	5.8	1.5	0	0	0
259-281		0.3	0.3	2.5	2.3	4.1	3.8	4.1	1	0.5	0	0	0
282-303		0	0	0.8	2	1.5	0.3	0.3	0	0	0	0	0
304-326		0	0.3	0.3	0.5	0.5	0	0	0	0	0	0	0
327-348		0	0.3	0.5	0.3	0.3	0	0	0.3	0	0	0	0



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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	0.3	0	0.3	0	0	0.5	0	0	0
12-33	0	0	0	0.3	0.3	0	0.3	0	0	0.3	0	0
34-56	0	0	0	0.5	0.3	0.3	0.5	0	0.3	0	0	0
57-78	0	0	0	0.3	0	0	0	0	0	0	0	0
79-101	0	0.5	0.5	0.5	0	0	0	0	0	0	0	0
102-123	0	0	0.3	0	0	0	0	0	0	0	0	0
124-146	0	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0	0.5	0.5	0.3	0	0	0	0	0	0	0
168-191	0	0	0.3	0.8	0.8	0	0	0	0	0.3	0	0
192-213	0	0.3	1	0.3	1.3	0.3	0	0	0	0	0	0
214-236	0	0	0.5	2.3	0.8	2.8	1	1	0.3	0.3	0.8	0
237-258	0	0.3	0.8	2.8	2	2.5	4.1	4.6	3.3	2	1.3	0.3
259-281	0	0.5	0.5	2.8	1.8	4.1	3.8	6.6	3.6	2.3	1.5	0
282-303	0	0.5	1	2.5	2.3	2	2.5	3.1	0.3	0.3	0	0
304-326	0	0.5	0	2.5	1.3	2.3	0.8	0.5	0	0	0	0
327-348	0	0.3	0.3	0.8	1.3	1	0	0.3	0	0	0	0

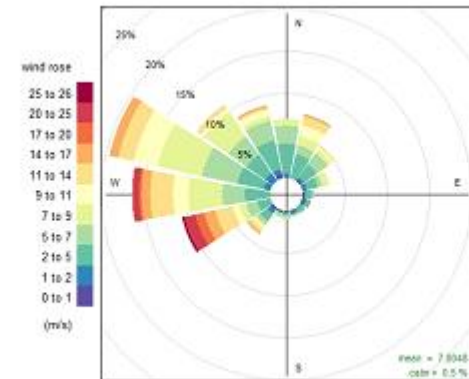


Frequency of counts by wind direction (%)

Visakhapatnam

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	0	0.5	3.5	2.1	0.8	0	0	0	0	0	0
12-33	0	0	0	2.9	1.1	1.1	1.3	1.1	0.3	0	0	0
34-56	0	0.3	0.3	1.9	1.6	0.5	0.3	0.3	0	0	0	0
57-78	0	0	0.5	1.3	0.5	0.8	0.3	0	0	0	0	0
79-101	0	0.3	0	0.8	0.3	0	0	0	0	0	0	0
102-123	0	0.3	0.3	0.5	0	0	0	0	0	0	0	0
124-146	0	0	0	0.8	0	0	0.3	0	0	0	0	0
147-168	0	0	0.5	0	0.3	0	0	0	0	0	0	0
168-191	0	0	0.3	0.3	0.3	0	0	0.3	0	0	0	0
192-213	0	0.3	0	0	0.5	0	0	0	0	0	0	0
214-236	0	0.3	0.5	1.1	0.5	0.3	0.3	0.5	0.3	0	0	0
237-258	0	0	0	1.6	1.3	0.8	0.8	2.1	1.3	1.1	1.3	0.3
259-281	0	0	0	2.9	2.7	4	1.9	2.7	1.1	0.3	0.8	0
282-303	0	0	0.8	3.2	4.3	5.3	2.9	1.9	1.1	0	0	0
304-326	0	0	1.1	2.7	2.7	3.5	0.5	0.5	0	0	0	0
327-348	0	0.5	0.5	3.5	2.4	0.5	0.8	0.3	0.3	0	0	0

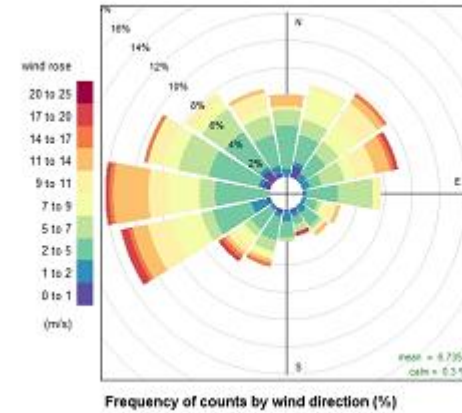


Frequency of counts by wind direction (%)

Visakhapatnam

June 500 hPa level

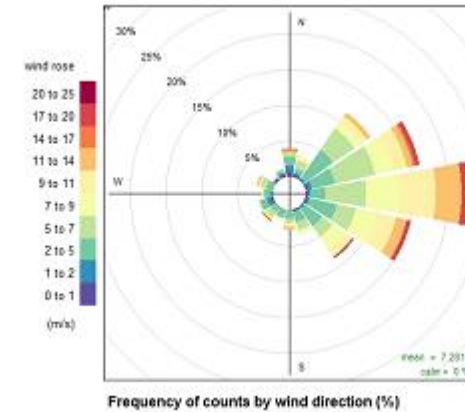
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.6	3.2	1.1	0	0.3	0.9	0	0	0	0
12-33		0.9	0.3	2	1.1	2.3	0.3	0	0	0	0	0
34-56		0	0.6	1.7	1.1	1.7	1.7	0.6	0.3	0	0	0
57-78		0	0.6	0.9	1.7	0.9	1.4	1.1	0.3	0.3	0	0
79-101		0	0.3	2.3	2.6	0.3	0.3	0	0	0	0	0
102-123		0	0.3	0.9	0.3	0.6	0.6	0.3	0	0	0	0
124-146		0	0.6	1.1	0.3	0	0.3	0.3	0	0	0	0
147-168		0.3	0.3	0.6	0.6	0	0	0	0	0.3	0	0
168-191		0	0.9	1.1	0.3	0	0	0	0	0	0	0
192-213		0.3	0.3	1.7	0.9	0.6	0	0.3	0.3	0	0	0
214-236		0	0.3	1.7	0.6	0.9	0.6	0.3	0.3	0.3	0	0
237-258		0.3	1.1	2.9	0.9	2.3	1.7	1.1	0.3	0.6	0	0
259-281		0	0	4	1.1	2.3	1.4	2.6	0.3	0.3	0	0
282-303		0.6	0.3	3.7	2.3	1.1	1.1	0	0.3	0	0	0
304-326		0.9	0.3	3.2	2	0.9	0.6	0	0	0	0	0
327-348		0.3	0.6	2.3	1.4	0.6	1.1	0.3	0	0	0	0



Visakhapatnam

June 300 hPa level

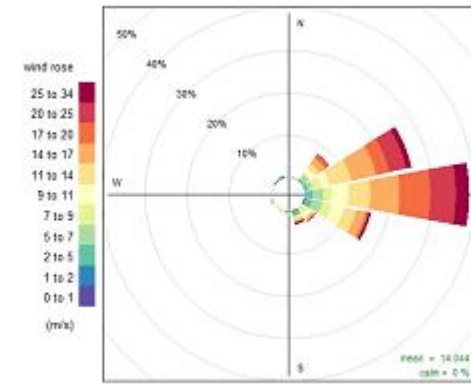
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	0.9	1.2	0.6	0	0	0.3	0.3	0	0	0
12-33		0.3	0.3	0.6	1.2	0.3	0.3	0	0	0	0	0
34-56		0	0.3	4.8	3.6	1.2	0.9	0.6	0	0	0	0
57-78		0.3	0.6	3.3	5.8	2.7	1.8	0.9	0.3	0.6	0	0
79-101		0.3	0.3	2.1	5.8	4.8	4.8	3.6	0	1.2	0	0
102-123		0.3	0.3	3.9	2.7	3	2.7	1.5	0	0.6	0	0
124-146		0	0.3	3	1.8	2.1	1.2	0	0	0.3	0	0
147-168		0.3	0	1.2	1.2	0.6	0	0	0	0	0	0
168-191		0	0	1.5	0.6	0.3	0.3	0.3	0	0	0	0
192-213		0	0	1.2	0	0	0.3	0	0	0	0	0
214-236		0	0	0.9	0.9	0.3	0	0	0.3	0	0	0
237-258		0.3	0.6	0.9	0.3	0	0	0	0	0	0	0
259-281		0	0.3	0.9	0	0.3	0	0	0	0	0	0
282-303		0	0	0.9	0.9	0	0.3	0.3	0	0	0	0
304-326		0.3	0	0	0.3	0	0	0	0	0	0	0
327-348		0.3	0.3	0.3	0.3	0.3	0	0	0	0	0	0



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June 200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0.3	0	0	0	0	0	0	0
12-33		0	0	0	0.3	0	0	0	0	0	0	0
34-56		0	0	0.6	1.3	0.3	1.6	1.3	1.6	0.9	0.3	0
57-78		0	0	0.9	0.9	2.2	1.9	5.4	6	3.2	4.1	1.3
79-101		0	0	1.9	2.5	1.9	4.1	5	6.9	7.3	6	3.2
102-123		0.3	0	1.6	2.5	2.2	3.2	2.8	2.2	0.6	0	0.6
124-146		0	0	0	0	1.6	1.3	0.3	0.6	0	0.3	0
147-168		0	0.3	0.9	0.3	0.3	0	0.3	0.3	0	0.3	0.3
168-191		0	0	0.6	0	0.3	0	0.3	0	0	0	0
192-213		0	0	0	0	0.3	0	0.3	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0.6	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	0.3	0	0	0	0	0	0	0	0	0
327-348		0	0.3	0.3	0	0	0	0	0	0	0	0

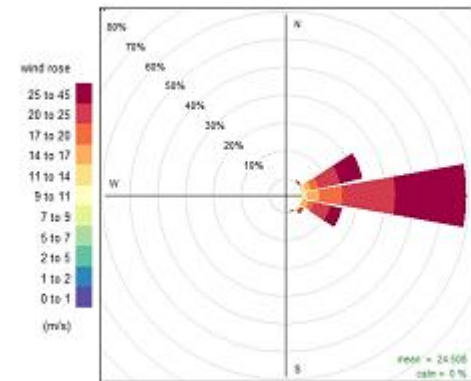


Frequency of counts by wind direction (%)

Visakhapatnam

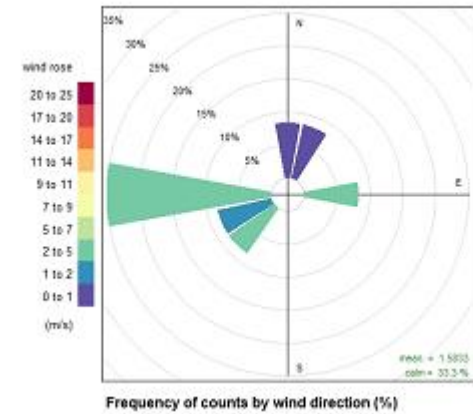
June 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0.4	0	0.4
57-78		0	0	0	0	0	0	1.6	2	2.8	7.9	8.3
79-101		0	0	0	0	0	0	2	4.3	8.3	18.9	25.6
102-123		0	0	0	0	0	0.4	0	2.4	2	5.9	4.3
124-146		0	0	0	0	0.4	0	0.4	0.4	0	1.2	0
147-168		0	0	0	0	0	0	0	0	0	0.4	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0

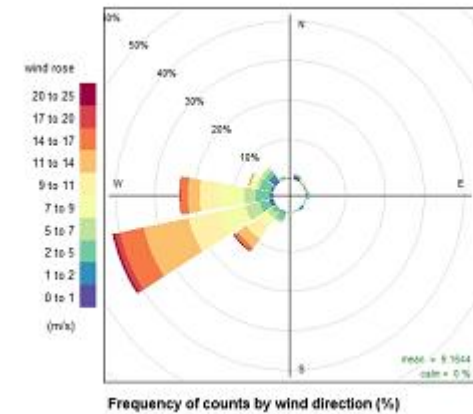


Frequency of counts by wind direction (%)

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	33	8.3	0	0	0	0	0	0	0	0	0	0
12-33		8.3	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	8.3	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	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	8.3	0	0	0	0	0	0	0	0
237-258		0	8.3	0	0	0	0	0	0	0	0	0
259-281		0	0	25	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



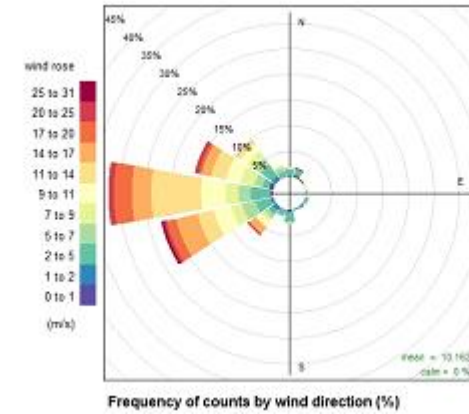
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	0	0	0	0	0	0	0	0	0	0
12-33		0.8	0	0.5	0	0	0	0	0	0	0	0
34-56		0	0	0.3	0	0.3	0.5	0	0	0	0	0
57-78		0	0.3	0	0.3	0	0	0	0	0	0	0
79-101		0.3	0	0.8	0	0	0	0	0	0	0	0
102-123		0	0	0.3	0	0	0	0	0	0	0	0
124-146		0	0.5	0	0	0	0	0	0	0	0	0
147-168		0	0	0.3	0	0	0	0	0	0	0	0
168-191		0	0	0.3	0	0	0	0.3	0	0	0	0
192-213		0	0.3	1.9	0.8	0	0.3	0	0	0	0	0
214-236		0	0	1.3	1.3	2.7	3.8	2.7	1.1	0	0.3	0
237-258		0.5	0.5	2.4	3.8	6.7	8.1	11.6	6.2	1.3	0.5	0
259-281		0.3	0.5	3.5	3	6.7	4.6	3	1.9	0.3	0	0
282-303		0.3	0.3	3	0.8	1.3	0.5	0	0.3	0	0	0
304-326		0.5	1.6	1.1	1.1	0.3	0	0	0	0	0	0
327-348		0	0	0.5	0.3	0	0.3	0	0	0	0	0



Visakhapatnam

July 850 hPa level

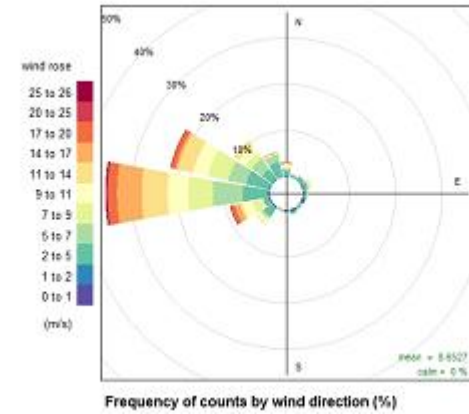
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	1.1	0.3	0.3	0	0	0	0	0	0
12-33		0.3	0.3	1.1	0	0	0	0	0	0	0.3	0
34-56		0.3	0	0	0	0.3	0.3	0	0	0	0	0
57-78		0	0	0	0	0.3	0	0	0	0	0	0
79-101		0	0	0.3	0.3	0	0	0	0	0	0	0
102-123		0	0	0.5	0.3	0	0	0	0	0	0	0
124-146		0	0.3	0.3	0	0	0	0	0	0	0	0
147-168		0	0.3	0	0	0	0	0	0	0	0	0
168-191		0.3	0.3	1.9	0	0	0	0.3	0	0	0	0
192-213		0	0	1.4	0	0	0	0	0	0	0	0
214-236		0	0.8	1.1	0.8	0.8	1.1	0.3	1.4	0.3	0.3	0
237-258		0	0.5	3	2.7	2.2	3.5	3.2	4.3	1.9	0.5	0.5
259-281		0.3	0.3	3.8	2.4	2.4	4.9	9.7	3.8	3.5	1.1	0
282-303		0.8	0	1.4	1.6	2.7	3	3	1.9	0.5	0.8	0
304-326		0	0.8	2.7	1.6	1.6	1.6	0.8	0.3	0	0	0
327-348		0	0	1.1	0.8	0.5	0	0	0	0	0	0



Visakhapatnam

July 700 hPa level

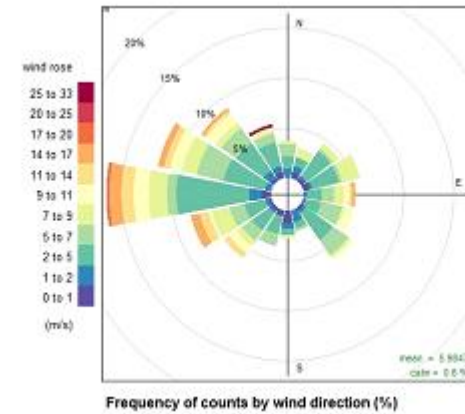
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	1.1	0.3	0.3	0.8	0	0	0.3	0	0
12-33		0	0	0.6	0	0.3	0	0	0	0	0	0
34-56		0	0	1.1	0	0	0	0	0	0	0	0
57-78		0.3	0	0.8	0.3	0.6	0.3	0	0	0	0	0
79-101		0	0.6	0.3	0.3	0.3	0	0	0	0	0	0
102-123		0.6	0.3	0	0	0	0	0	0	0	0	0
124-146		0	0	0.6	0.3	0	0	0	0	0	0	0
147-168		0.6	0	0.6	0	0	0	0	0	0	0	0
168-191		0.3	0	0.6	0	0	0	0	0	0	0	0
192-213		0	0	0.3	0	0	0	0.3	0	0	0	0
214-236		0.3	0	2.2	0.6	0.3	0.8	0.3	0	0	0	0
237-258		0.3	0	1.1	0.3	2.2	2.2	0.6	1.1	0.8	0.3	0
259-281		0	0.6	5.3	6.4	5.3	4.5	5.6	5.3	2	0.3	0.3
282-303		0	0.3	5	3.9	4.5	3.4	3.4	0.6	0.8	0.3	0
304-326		0	0.3	2.5	2.8	1.4	2	1.4	0	0	0	0
327-348		0	0	3.4	1.7	0	0.3	0	0.3	0	0	0



Visakhapatnam

July 500 hPa level

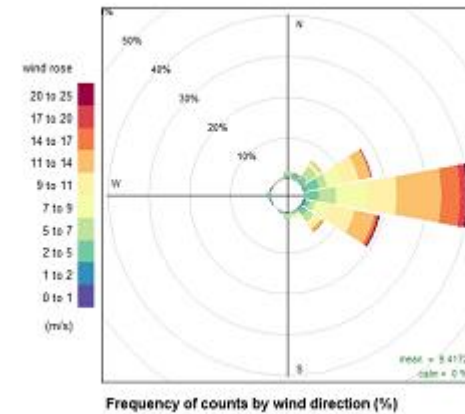
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.9	1.2	1.2	0.3	0	0	0	0	0	0
12-33		0.6	0.6	0.9	0	0.9	0	0	0	0	0	0
34-56		0.3	0.3	3.1	0.3	0.6	0	0	0	0	0	0
57-78		0.6	0.3	2.8	0.3	1.8	0	0	0	0	0	0
79-101		0	0.3	1.5	1.2	0.9	0.6	0.3	0.3	0	0	0
102-123		0	0.3	1.5	2.1	0.3	0.9	0	0	0	0	0
124-146		0.3	0.3	3.4	1.8	0.3	0.3	0	0	0	0	0
147-168		0	1.2	0.6	0.3	0	0	0	0	0	0	0
168-191		1.2	0.6	0.6	0	0.3	0	0	0	0	0	0
192-213		0.6	0	1.8	1.2	0	0	0	0	0	0	0
214-236		0.3	0.3	2.1	1.2	0.6	0.9	0.6	0	0	0	0
237-258		0.3	0.3	2.1	1.5	1.8	0.3	0.9	0.9	0	0	0
259-281		0.9	1.2	7.3	0.9	1.8	1.5	1.2	1.2	0.3	0	0
282-303		0	0.6	4.3	2.8	1.5	1.2	0.6	0.6	0	0	0
304-326		0.3	0.9	3.4	1.8	0.6	1.2	0.3	0.3	0	0	0
327-348		0.6	0.6	2.4	0.9	0.3	0.3	0	0	0	0	0.3



Visakhapatnam

July 300 hPa level

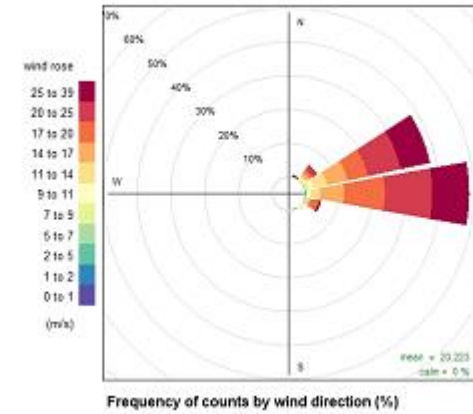
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0.3	0.7	0.3	0	0	0.3	0	0	0	0
12-33		0	0	1.3	0	0	0	0	0.3	0	0	0
34-56		0	0	1.7	3	0.7	0.3	0.7	0	0	0	0
57-78		0	0.3	3.6	2	3.6	4.3	3	0	0.3	0	0
79-101		0	0	3.6	4.3	7.6	7.3	10.9	4.6	1.7	0.3	0
102-123		0.3	0.3	1	1.3	3.6	6.3	5	0.7	0.3	0.3	0
124-146		0	0.3	1.7	2	0.7	1.3	0.7	0.3	0	0	0
147-168		0	0	0.7	0.3	0.3	0.7	0	0	0	0	0
168-191		0	0.3	0.3	0.7	0	0	0	0.3	0	0	0
192-213		0	0	0.7	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0.3	0	0	0	0	0	0	0	0	0
259-281		0	0	1	0	0	0	0	0	0	0	0
282-303		0.3	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0.3	0	0	0
327-348		0	0	0.3	0	0	0	0	0	0	0	0



Visakhapatnam

July 200 hPa level

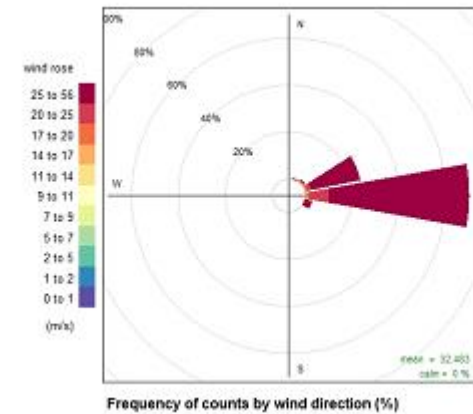
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0.3	0.3
34-56	0	0	0	0	0	0.7	0	1	1	1	1.7	0
57-78	0	0	0	0.3	1	1.4	4.1	6.2	6.2	10	8.9	
79-101	0	0	0.3	0.3	0	1	2.7	7.2	12	14.1	11	
102-123	0	0	0	0.7	0.3	0	0.3	0.7	2.4	0	0.7	
124-146	0	0	0	0	0.3	0.3	0.3	0	0	0	0	
147-168	0	0	0.3	0	0	0	0	0	0	0	0	
168-191	0	0	0	0.3	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	



Visakhapatnam

July 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0.5
34-56	0	0	0	0	0	0	0	0	0.5	0.5	0	0.5
57-78	0	0	0	0	0	0	0	0.5	0	1	1.5	21.4
79-101	0	0	0	0	0	0	0	0	0.5	1.5	8.5	59.7
102-123	0	0	0	0	0	0	0	0	0	0	0.5	3
124-146	0	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0	0	0	0	0	0	0	0	0	0	0
168-191	0	0	0	0	0	0	0	0	0	0	0	0
192-213	0	0	0	0	0	0	0	0	0	0	0	0
214-236	0	0	0	0	0	0	0	0	0	0	0	0
237-258	0	0	0	0	0	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	0	0	0	0	0	0
282-303	0	0	0	0	0	0	0	0	0	0	0	0
304-326	0	0	0	0	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0

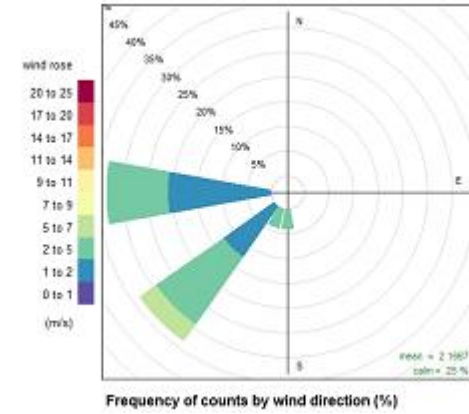


Visakhapatnam

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	25	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	4.2	0	0	0	0	0	0	0	0
192-213		0	0	4.2	0	0	0	0	0	0	0	0
214-236		0	12.5	16.7	4.2	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0	0	0
259-281		0	20.8	12.5	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

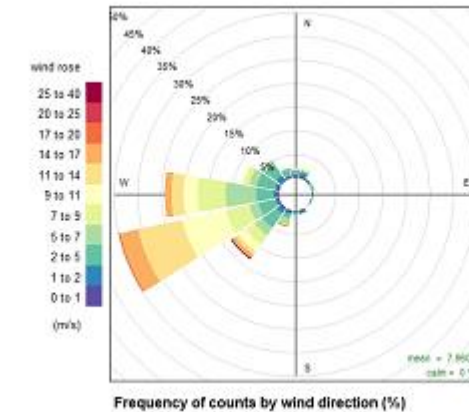


Visakhapatnam

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	0.6	0	1.1	0	0	0.3	0	0	0	0	0
12-33		0.6	0.6	0.6	0	0.6	0	0	0	0	0	0
34-56		0	0.6	0	0	0	0	0.3	0	0	0	0
57-78		0	0	0.6	0	0	0	0	0.3	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	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		0	0.3	0.6	0	0	0	0	0	0	0	0
192-213		0.6	0.3	0.8	1.4	0.3	0	0	0	0	0.3	0
214-236		0.6	0.8	3.7	2	2.3	2	0.8	0.8	0	0	0.3
237-258		0.3	0.6	3.7	2	5.1	9.6	9.6	3.9	0.3	0	0
259-281		0.6	0.6	3.7	6.5	5.9	3.1	2.5	1.4	0	0	0
282-303		0.6	0.3	3.9	1.7	1.1	0.6	0	0	0	0	0
304-326		0	1.4	2.8	1.1	0	0	0	0	0	0	0
327-348		0.3	0.3	1.4	0.3	0	0	0	0	0	0	0

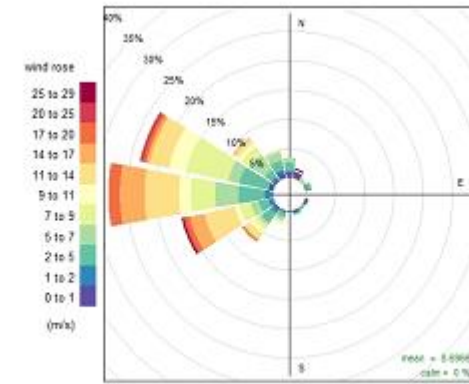


Visakhapatnam

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		0.8	0.3	1.4	0.8	0	0	0	0	0	0	0
12-33		1.1	0	0	0	0	0.3	0	0	0	0	0.3
34-56		0	0	0	0.6	0.3	0	0	0	0	0	0
57-78		0	0.3	0.8	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0.3	0	0	0
102-123		0.6	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0.6	0	0	0	0	0	0	0	0
147-168	0	0.3	0.3	0	0	0	0	0	0	0	0	0
168-191		0	0.3	0.3	0	0	0	0	0	0	0	0
192-213		0.3	0	0.8	0.6	0.6	0	0	0	0	0	0
214-236		0.3	0.8	2	0.6	0.8	0.8	1.1	0.3	0.3	0	0
237-258		0	0.8	1.7	1.4	2	0.8	5.3	2.5	0.8	0.3	0.3
259-281		0	1.4	4.5	3.9	4.2	2	5.9	4.2	2	0	0
282-303		0.8	0	5.1	2	7.3	3.1	3.4	0.6	0.6	0.6	0
304-326		0.3	0.6	1.4	3.1	1.7	0.8	0.8	0.3	0	0	0
327-348		0.8	0.6	1.7	1.4	0	0	0.3	0	0	0	0



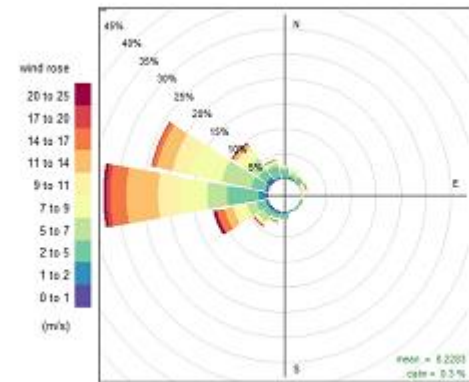
Frequency of counts by wind direction (%)

Visakhapatnam

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	0.3	1.4	0.6	0.3	0	0	0	0	0	0
12-33		0.3	0	0.6	0.6	0.9	0	0	0	0	0	0
34-56		0	0	1.2	0.3	0	0	0	0	0	0	0
57-78		0	0	0	0.3	0.6	0.3	0	0.3	0	0	0
79-101		0	0	0	0.3	0.3	0	0	0	0	0	0
102-123		0	0	0.6	0	0	0	0	0	0	0	0
124-146		0	0	0.3	0.3	0	0	0	0	0	0	0
147-168	0	0	0.3	0	0	0	0	0	0	0	0	0
168-191		0	0.6	0.9	0	0	0	0	0	0	0	0
192-213		0.3	0.3	0.9	0	0.3	0.3	0	0.3	0	0	0
214-236		0.3	0.3	1.2	1.4	0.6	0	0.3	0	0.3	0	0
237-258		0	0.6	1.7	2	2	0.9	1.7	1.4	0.3	0.6	0
259-281		0.3	1.4	6.4	4	5.5	4.3	6.4	3.2	0.9	0.6	0
282-303		0.3	0.3	2.9	6.1	6.6	3.5	3.2	0.9	0.3	0	0
304-326		0.6	0.6	1.7	2.9	2	0.6	0.9	0	0	0.3	0
327-348		0.3	0	2.3	0.6	0.3	0.3	0	0.3	0	0	0



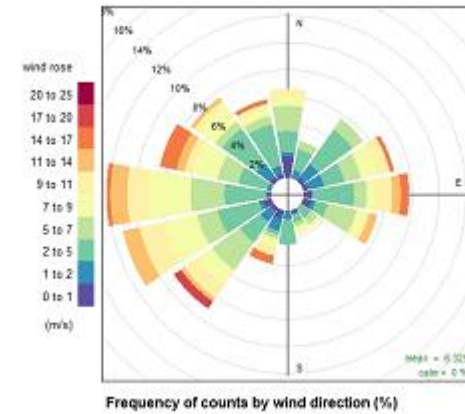
Frequency of counts by wind direction (%)

Visakhapatnam

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

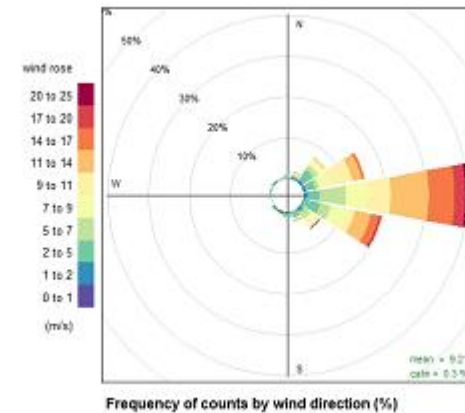


Visakhapatnam

August

300 hPa level

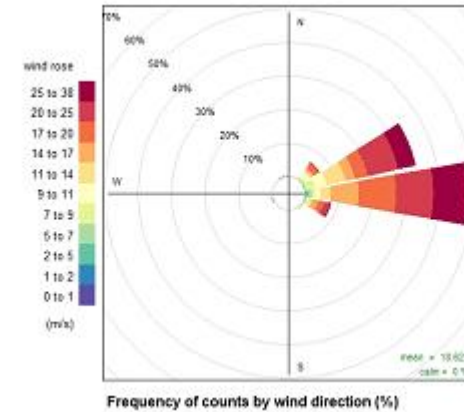
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.7	0.3	0	0	0	0	0	0	0
12-33		0	0.3	0.7	0	0	0.7	0.3	0	0	0	0
34-56		0	0.7	3	1.3	1.7	0.3	0.3	0	0	0	0
57-78		0.3	0.3	2.3	1	3	5.3	2.3	0.7	0	0	0
79-101		0	1	3	6.3	5.3	5.7	9.3	6.3	2.7	0.7	0
102-123		0	0.3	4	2.7	4.7	1.3	4	2	0.7	0	0
124-146		0	0.7	0.7	1.7	1.7	1	0	0	0.3	0	0
147-168		0	0	1.3	0	0	0.7	0.3	0	0	0	0
168-191		0	0.7	1	0	0	0	0	0	0	0	0
192-213		0.3	0.3	0	0	0	0.7	0	0	0	0	0
214-236		0	0.3	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	0.3	0	0	0	0	0	0	0	0
282-303		0	0	0.3	0	0	0	0	0	0	0	0
304-326		0	0.3	0	0.3	0	0	0	0	0	0	0
327-348		0	0	0.3	0	0	0	0	0	0	0	0



Visakhapatnam

August 200 hPa level

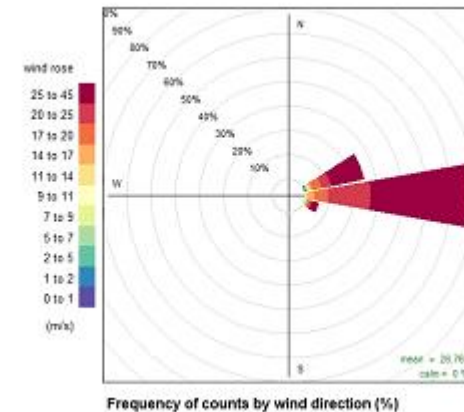
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0.4	0	0
12-33	0	0	0	0	0	0	0	0.4	0	0	0	0
34-56	0	0	0	0.4	0.7	1.8	0.7	0.7	1.8	0.4	0	0
57-78	0	0	0.4	0	2.9	3.6	5.7	2.9	3.9	9.3	5.4	0
79-101	0	0	1.1	1.1	1.1	1.4	3.2	8.2	11.1	11.1	10.8	0
102-123	0	0	0	0.7	0.4	0.4	1.1	1.8	1.8	1.8	1.8	0.4
124-146	0	0	0	0.4	0	0	0.4	0	0	0	0	0
147-168	0	0	0	0	0	0	0	0	0	0	0	0
168-191	0	0	0	0	0	0	0	0	0	0	0	0
192-213	0	0	0	0	0	0	0	0	0	0	0	0
214-236	0	0	0	0	0	0	0	0	0	0	0	0
237-258	0	0	0.4	0	0	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	0	0	0	0	0	0
282-303	0	0	0	0	0	0	0	0	0	0	0	0
304-326	0	0	0	0	0	0	0	0	0	0	0	0
327-348	0	0	0.4	0	0	0	0	0	0	0	0	0



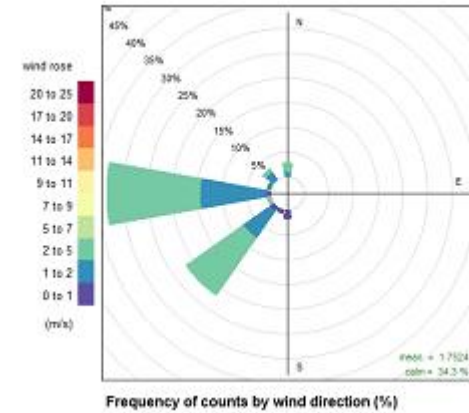
Visakhapatnam

August 100 hPa level

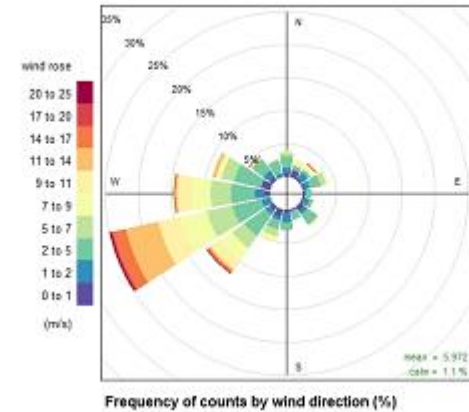
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0.5	0	0.5	0.5	0.5	0	0.5	1	3.9	3.9	14.1	0
79-101	0	0	0	0	0	0	0	1	2.9	5.8	17.5	40.8
102-123	0	0	0	0.5	0.5	0	0	0.5	1	1	2.9	0
124-146	0	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0	0	0	0	0	0	0	0	0	0	0
168-191	0	0	0	0.5	0	0	0	0	0	0	0	0
192-213	0	0	0	0	0	0	0	0	0	0	0	0
214-236	0	0	0	0	0	0	0	0	0	0	0	0
237-258	0	0	0	0	0	0	0	0	0	0	0	0
259-281	0	0	0	0	0	0	0	0	0	0	0	0
282-303	0	0	0	0	0	0	0	0	0	0	0	0
304-326	0	0	0	0	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0



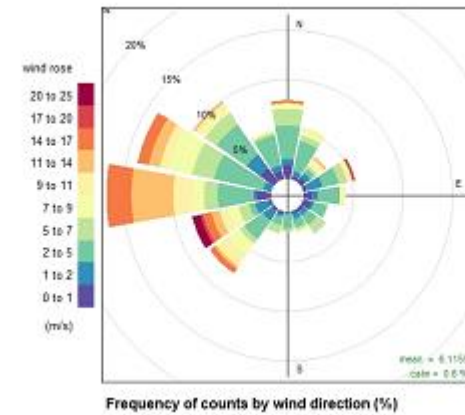
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	34	0	1	1.9	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		1.9	0	0	0	0	0	0	0	0	0	0
192-213		1	0	0	0	0	0	0	0	0	0	0
214-236		1	6.7	14.3	0	0	0	0	0	0	0	0
237-258		0	0	1	0	0	0	0	0	0	0	0
259-281		1	13.3	19	0	0	0	0	0	0	0	0
282-303		0	1	0	0	0	0	0	0	0	0	0
304-326		0	1.9	1	0	0	0	0	0	0	0	0
327-348		0	0	0	0	0	0	0	0	0	0	0



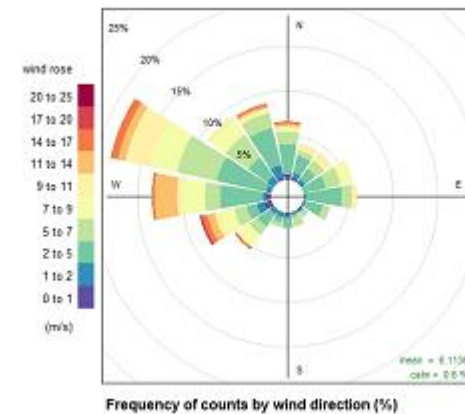
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	0.8	1.7	0.6	0	0.3	0	0	0	0	0
12-33		1.1	0	0.6	0.3	0.8	0	0	0	0	0	0
34-56		0.3	1.1	0.6	0	0.6	0.3	0	0.3	0	0	0
57-78		0.3	0.8	1.7	0.8	0.6	0	0	0	0	0	0
79-101		0.3	0.3	0.8	0	0	0	0	0	0	0	0
102-123		0.3	0.8	0.6	0	0	0.3	0	0	0	0	0
124-146		0.8	0.6	2	0	0.3	0	0	0	0	0	0
147-168		0	0	1.4	0	0	0	0	0	0	0	0
168-191		0.8	1.4	1.1	0	0	0	0	0	0	0	0
192-213		1.1	0.6	1.4	1.1	0.6	0.3	0	0	0	0	0
214-236		0.6	0.8	3.9	2.2	2.2	1.7	0.3	0.3	0.3	0	0
237-258		0	1.4	4.5	3.9	4.2	3.4	5	2	0.3	0.3	0
259-281		0.8	1.4	3.6	3.1	2.8	2.2	0.3	0.3	0	0	0
282-303		1.4	0	4.2	2	0.6	0.3	0.6	0	0	0	0
304-326		0.6	1.1	2.2	0	0.3	0	0	0.3	0	0	0
327-348		0	0.6	2	0.3	0	0	0	0	0	0	0



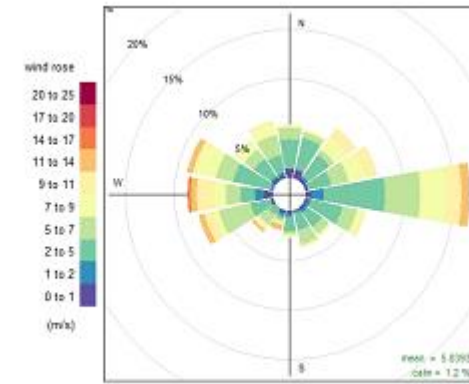
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1.4	0.6	3.4	1.7	0.6	0	0	0.3	0	0	0
12-33		0.3	0.6	3.1	0.6	0.6	0.3	0	0	0	0	0
34-56		0.6	0.6	0.6	0.3	0.6	0.3	0.3	0	0	0	0
57-78		0.3	1.7	1.7	0.8	0	0.6	0	0	0.3	0	0
79-101		0.8	0.6	2.3	0	0.3	0.3	0	0	0	0	0
102-123		0.8	0.3	1.4	0	0	0	0	0	0	0	0
124-146		0.3	0.6	1.1	1.1	0	0	0	0	0	0	0
147-168		0.3	0.3	0.8	0.3	0.3	0	0	0	0	0	0
168-191		0	0.6	1.4	0.3	0	0	0	0	0	0	0
192-213		0.3	0.3	0.8	0.8	0	0	0	0	0	0	0
214-236		0.3	1.1	2.3	0.6	1.4	1.4	0.3	0.6	0	0	0
237-258		0.3	1.4	0.6	1.1	1.1	0.8	0.8	0.8	0.3	0.8	0
259-281		1.4	0.3	3.7	1.4	1.1	2	4.2	2.5	0	0	0
282-303		0	0.8	5.1	2.3	2.5	0.8	1.1	1.1	0	0	0
304-326		1.7	1.7	3.7	1.4	0.6	0.6	0.3	0	0	0	0
327-348		0.8	0.6	3.1	0.3	0.3	0	0	0	0	0	0



Speed Direction	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	3.4	1.4	0.3	0.3	0.3	0.3	0	0	0
12-33		0.3	0.6	2	0.6	0	0.9	0	0	0	0	0
34-56		0	0.6	1.4	1.1	0.3	0.9	0	0	0	0	0
57-78		0	0	2.6	1.7	1.1	0.3	0	0	0	0	0
79-101		0	0.3	4	1.1	0	0.6	0	0	0	0	0
102-123		0	0.3	2	0.9	0	0	0	0	0	0	0
124-146		0.3	0	0.3	0.6	0	0	0	0	0	0	0
147-168		0	0.3	0	0.9	0	0	0	0	0	0	0
168-191		0.3	0.3	1.4	0.3	0	0	0	0	0	0	0
192-213		0	0.6	0.6	0.6	0	0	0	0	0	0	0
214-236		0	0.6	1.7	1.1	1.4	0.3	0	0.3	0	0	0
237-258		0.9	0.9	1.1	1.4	1.7	0.6	0.9	0.6	0.3	0	0
259-281		0.6	0.3	4.8	1.7	2.6	0.6	2.6	0.3	0	0	0
282-303		0	0.6	5.7	4.5	3.1	2.8	0.9	0.9	0	0	0
304-326		0	0.9	2.6	3.1	2	0.6	0	0	0	0	0
327-348		0.3	1.4	4.3	1.7	0.3	0.3	0.3	0.3	0	0	0

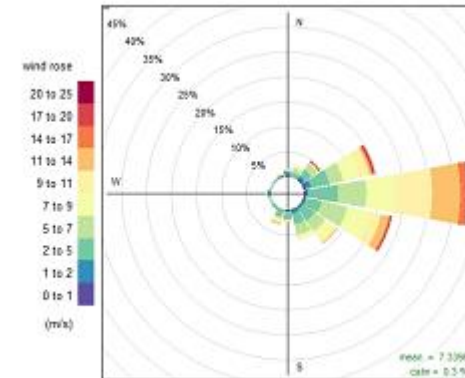


Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.9	0	3	1.2	0.3	0	0	0	0	0	0
12-33		0.9	0	3.3	0.6	0.3	0	0	0	0	0	0
34-56		0.3	0.3	2.7	0.6	1.5	1.2	0	0	0	0	0
57-78		0.3	0	2.4	1.8	1.8	1.2	0	0	0	0	0
79-101		0.6	1.2	6.2	3.6	2.7	1.5	0.9	0	0	0	0
102-123		0.3	0.3	3.3	1.5	0.6	0.3	0	0	0	0	0
124-146		0.3	0.3	1.8	0.9	0.3	0	0	0	0	0	0
147-168	0	0	0.3	1.2	1.5	0.3	0	0	0	0	0	0
168-191		0.3	0.3	2.1	0.3	0.3	0	0	0	0	0	0
192-213		0.3	0.3	0.3	0.3	0.3	0	0.6	0	0	0	0
214-236		0	0	0.9	1.2	0.3	0.3	0.3	0	0	0	0
237-258		0.3	0	2.1	3.3	0.6	0.9	0.6	0	0	0	0
259-281		0.9	0.9	1.5	1.5	1.2	1.8	0.6	0.3	0	0	0
282-303		0	0.3	3.9	1.8	2.1	0.3	0.6	0	0	0	0
304-326		0.3	0.3	2.1	1.2	1.2	0	0	0	0	0	0
327-348		0.3	0.3	1.8	2.1	1.2	0.3	0	0	0	0	0



Frequency of counts by wind direction (%)

Speed Direction	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	0.3	0	0.3	0	0	0	0	0	0
12-33		0	0	0.9	0.9	0.3	0.3	0	0	0	0	0
34-56		0.3	0.6	1.6	1.6	0	0.3	0	0	0.3	0	0
57-78		0.6	0.9	3.8	2.8	3.5	1.9	0.6	0	0.6	0	0
79-101		0.6	0.3	6	5.7	6	7.2	5.7	1.6	0	0	0
102-123		0.3	0.3	3.1	5.3	4.7	2.2	1.6	0.3	0.3	0	0
124-146		0	0.6	2.8	2.5	1.9	0.9	0.3	0	0	0	0
147-168	0	0.3	0.6	2.2	2.2	0.6	0.3	0	0	0	0	0
168-191		0.3	0	1.6	0.3	0	0.3	0	0	0	0	0
192-213		0	0	1.6	0.3	0.3	0.6	0.3	0	0	0	0
214-236		0	0	0.6	0	0	0	0	0	0	0	0
237-258		0	0	0	0.6	0	0	0	0	0	0	0
259-281		0	0.6	0	0	0	0.3	0	0	0	0	0
282-303		0	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		0.3	0	0	0.3	0	0.3	0	0	0	0	0



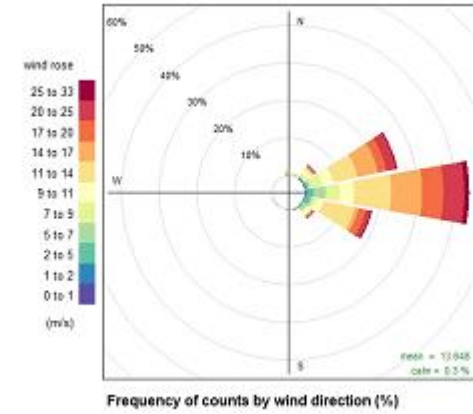
Frequency of counts by wind direction (%)

Visakhapatnam

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	0.3	0	0.3	0	0	0	0	0.3	0	0
12-33	0	0	0	0	0	0	0.3	0	0.3	0	0	0
34-56	0	0.3	0.3	0	1	1.3	0.7	0.3	0.3	0.3	0.3	0
57-78	0.3	0	0.7	0.7	3.3	3	6.6	5.6	2.3	2.6	0.3	
79-101	0	0.7	1.6	3.3	3.6	3.9	9.9	8.2	5.6	5.6	1.3	
102-123	0	0.3	1.3	0.7	1	2	8.6	1	2	1.3	0.3	
124-146	0	0	0.7	1	0.3	1	0.3	0.3	0.3	0.3	0	
147-168	0	0	0	0.3	0	0	0	0	0.3	0	0	
168-191	0	0	0.3	0	0	0	0	0	0	0	0	
192-213	0	0	0	0	0	0	0	0	0	0	0	
214-236	0	0	0	0.3	0	0	0	0	0	0	0	
237-258	0	0	0	0	0	0	0.3	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	

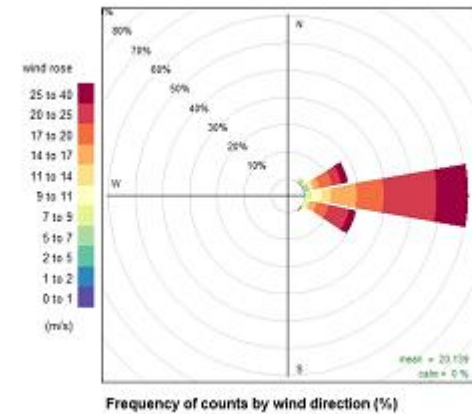


Visakhapatnam

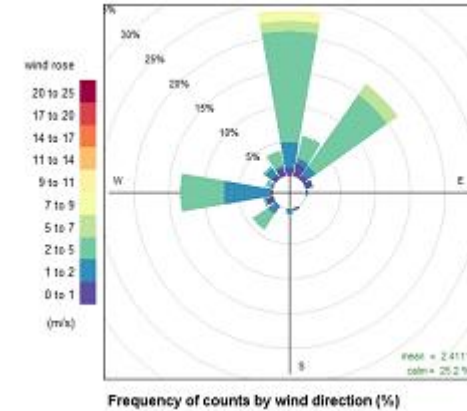
September

100 hPa level

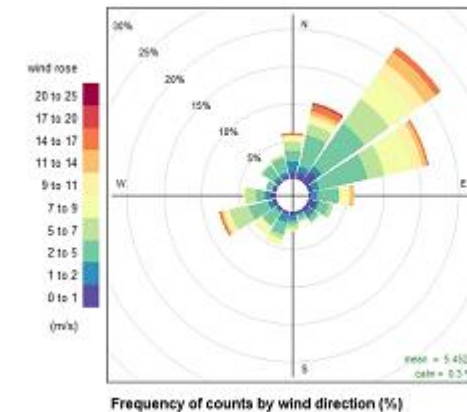
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0.4	0	0	0	0.9	0.4	0	0	0	0
57-78	0	0	0.4	1.7	0.4	0.4	0.9	2.2	4.8	3.5	2.6	
79-101	0	0	0.4	0.4	2.2	3.5	3.5	9.5	10	19.5	11.7	
102-123	0	0	0	0	1.3	0.4	0.9	2.6	4.3	7.8	2.6	
124-146	0	0	0	0	0	0.4	0	0	0	0.4	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	



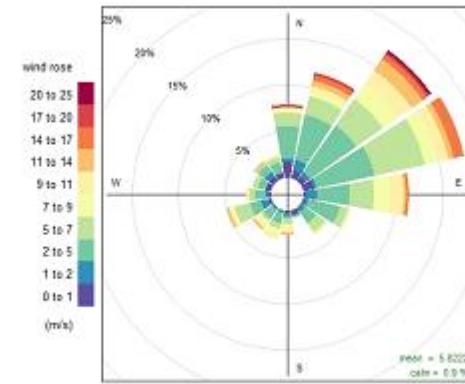
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	25	1.1	3.7	15.9	1.5	1.1	0.4	0	0	0	0	0
12-33		1.9	0.7	3.3	0	0	0	0	0	0	0	0
34-56		0.7	1.5	12.6	1.9	0	0	0	0	0	0	0
57-78		1.1	0	0	0	0	0	0	0	0	0	0
79-101		0	0.4	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0.4	0	0	0	0	0	0	0	0	0	0
168-191		0	0.7	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	1.5	2.6	0	0	0	0	0	0	0	0
237-258		1.1	0	0.4	0	0	0	0	0	0	0	0
259-281		0.4	6.7	6.3	0	0	0	0	0	0	0	0
282-303		0	0.4	0.7	0	0	0	0	0	0	0	0
304-326		0.7	1.1	0.4	0	0	0	0	0	0	0	0
327-348		1.1	0.4	2.2	0	0	0	0	0	0	0	0



Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.9	1.4	1.4	1.2	0.3	0.6	0	0.3	0	0	0
12-33		0.9	0.9	4.3	1.4	0.6	0.6	0.6	0.9	0.3	0	0
34-56		1.7	0.9	7	4.1	3.8	2	1.7	0.9	0	0	0
57-78		0.6	0.9	6.7	2.3	3.8	1.4	0.6	0.3	0	0	0
79-101		0.3	0.9	2.9	0	1.4	0	0.6	0	0	0	0
102-123		1.2	0.3	1.4	0.6	0	0	0	0	0	0	0
124-146		0.6	0.9	0.6	0.3	0	0	0	0	0	0	0
147-168		0.3	0.3	0.6	0.3	0	0	0	0	0	0	0
168-191		0.6	0.6	0.6	0.6	0.3	0	0	0	0	0	0
192-213		0.3	1.2	1.7	0.6	0.9	0	0	0	0	0	0
214-236		0.3	0.3	2	0.3	0.9	0.3	0	0	0	0	0
237-258		0.6	0.6	2.6	2.6	0.3	0.6	0.3	0.3	0	0	0
259-281		0.9	0.6	1.2	1.4	0.3	0	0	0	0	0	0
282-303		0.3	0.3	0.9	0	0	0	0	0	0	0	0
304-326		0.3	0.6	1.7	0.3	0	0	0	0	0	0	0
327-348		0.3	0.6	2	0.3	0.3	0	0	0	0	0	0

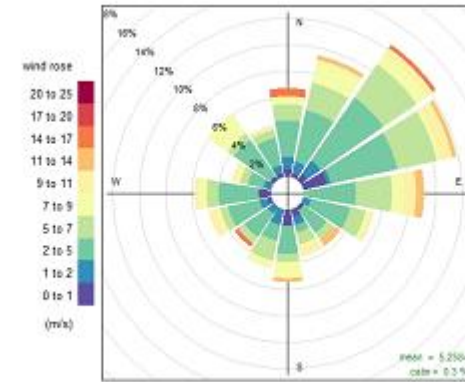


Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	1.7	0.3	3.5	1.5	0.3	0.3	0	0	0.3	0	0
12-33		0.9	1.2	5	2	0.6	0.6	0.6	0.6	0.3	0	0
34-56		0.6	0.6	6.1	3.5	2	1.7	1.5	0.6	0.3	0.3	0
57-78		1.2	0.3	6.4	5.5	1.5	1.2	0.6	1.2	0	0	0
79-101		0.3	1.2	3.5	2.6	1.7	1.5	0.3	0.3	0	0	0
102-123		0.3	0.3	3.5	0.9	0.3	0	0	0	0	0	0
124-146		0	0.6	1.5	1.2	0	0.3	0	0	0	0	0
147-168		0.6	0	0.3	0	0	0	0	0	0	0	0
168-191		0.3	0.3	0.3	0.6	0.3	0.6	0.3	0	0	0	0
192-213		0	0.3	1.2	0.6	0.6	0.6	0	0	0	0	0
214-236		0	0.3	1.2	0.3	0.3	0.6	0.3	0	0	0	0
237-258		0.3	0.9	1.2	1.7	0.3	0.3	0.3	0	0	0	0
259-281		0.3	0.3	1.2	0.6	0	0.3	0	0	0	0	0
282-303		0.6	0	0.9	0.6	0	0	0	0	0	0	0
304-326		0.6	0.6	0.9	0.3	0	0	0.3	0	0	0	0
327-348		0.6	0	1.2	0.6	0.3	0	0	0	0	0	0



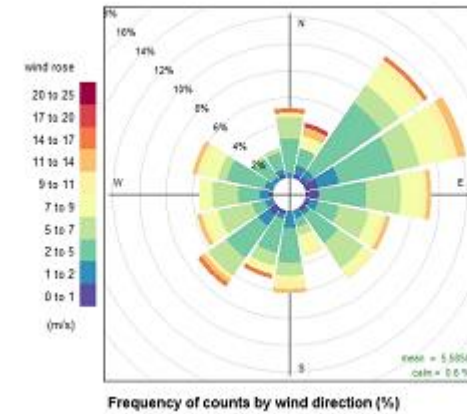
Frequency of counts by wind direction (%)

Speed Direction	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	2.7	1.2	0.3	0.3	0	0.6	0	0	0
12-33		0.3	0.9	4	2.1	1.5	0.3	0.3	0	0	0	0
34-56		0.6	1.2	5.8	3	0.9	0.6	0	0.3	0	0	0
57-78		1.8	0.3	5.2	3	0.3	0.9	0.3	0	0	0	0
79-101		0	0	4	2.7	0.9	0.9	0.6	0	0	0	0
102-123		0	0.6	3	1.2	0.3	0.3	0	0	0	0	0
124-146		0.3	0	2.1	0.6	0	0	0.6	0	0	0	0
147-168		0.6	0.6	0.6	0.9	0.3	0.6	0	0	0	0	0
168-191		1.2	0	2.1	0.6	1.2	0	0.3	0	0	0	0
192-213		0	1.2	1.2	1.5	0.6	0	0	0	0	0	0
214-236		0	0.6	2.1	0.6	0	0	0	0.3	0	0	0
237-258		0.3	0.6	2.4	0.6	0.3	0.6	0	0	0	0	0
259-281		0.9	0	3	0.9	0.6	0.3	0	0	0	0	0
282-303		0	0.6	1.2	0.6	0.3	0.3	0	0	0	0	0
304-326		0.3	0	3.3	0.6	1.8	0	0	0	0	0	0
327-348		0.3	0.6	2.1	0.6	0	0.3	0	0	0	0	0

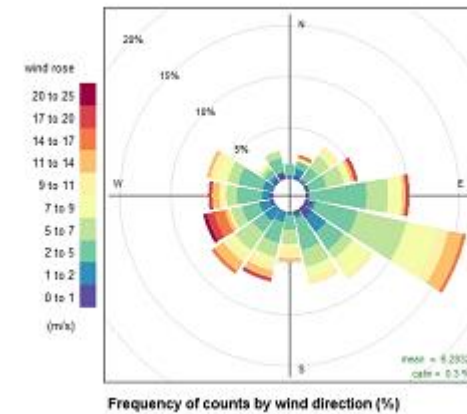


Frequency of counts by wind direction (%)

Speed Direction	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	2.6	1.6	0	0.3	0	0.3	0	0	0
12-33		0.3	0.6	1.3	0	1	0	0.6	0	0.3	0	0
34-56		0.3	0.6	6.1	1.6	1.6	0.6	0	0.3	0	0	0
57-78		1	1.6	4.2	1.9	2.3	0.6	0.6	0	0	0	0
79-101		1	0	3.6	2.6	1.6	0.3	0.3	0	0	0	0
102-123		0.3	0.6	1.6	2.3	1	0.3	0.3	0	0	0	0
124-146		0.3	0.3	2.6	2.3	0.6	0.3	0	0	0	0	0
147-168		0	0.6	0.6	0.6	1	0.3	0	0	0	0	0
168-191		0	1.3	2.6	1	0.6	0.6	0.3	0	0	0	0
192-213		0.3	0.3	2.6	1	0.6	0	0	0.3	0	0	0
214-236		0.6	1	2.9	1.6	0	0.3	0.3	0.3	0	0	0
237-258		0	0.6	1	2.6	1	0.3	0.3	0	0	0	0
259-281		0.3	0.6	1.6	1.9	1	0	0	0	0	0	0
282-303		0	0.6	2.9	0.6	1.3	0.3	0.3	0	0	0	0
304-326		0	0.3	1.6	0.3	0	0	0	0	0	0	0
327-348		0.3	0.3	1.3	0.3	0	0	0	0	0	0	0



Speed Direction	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	0	0	0	0	0	0	0	0
12-33		0.3	0.7	0.7	0	0	0.3	0	0.3	0	0	0
34-56		0	0.3	1.4	1.4	0.3	0.7	0	0	0	0	0
57-78		0.3	0	1.7	1.7	0.7	0	0.3	0	0.3	0	0
79-101		0.3	0	5.6	2.1	1.4	0	0.3	0	0.3	0	0
102-123		0.7	0.3	4.2	4.9	3.1	1	1.4	0.3	0	0	0
124-146		1	1.7	2.1	1	2.1	0.3	0	0	0	0	0
147-168		0.3	0.3	2.8	1.7	1	0.7	0	0	0	0	0
168-191		0	0.3	1.7	1.4	0.3	1	0.3	0	0	0	0
192-213		0	1	2.1	1.4	0.7	0.7	0.7	0	0.3	0	0
214-236		0	1.4	1.4	2.1	0.7	0.7	1	0.3	0	0	0
237-258		0.3	1	1.7	1	0	0.3	0.3	1	0.7	0.3	0
259-281		0.3	0.7	2.4	1	0.3	0.3	0.7	0	0.3	0	0
282-303		0	1	2.4	1	1	0.7	0.3	0	0	0	0
304-326		0.3	0.3	0.7	0.3	0.3	0	0	0	0	0	0
327-348		0.7	0	1.4	0.7	0	0	0	0	0	0	0

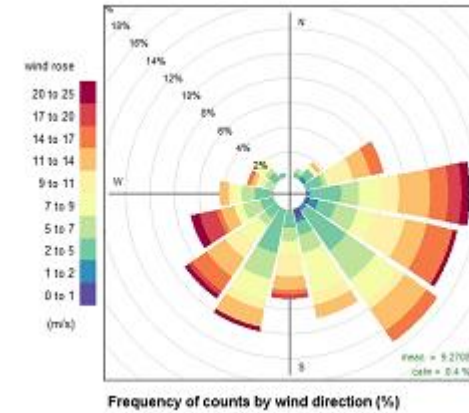


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October

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	0	0	0	0	0	0
12-33	0	0	0.4	0.4	0	0	0	0	0	0	0	0
34-56	0	0.4	0.7	0	0.4	0	0.4	0	0	0	0	0
57-78	0	0	1.4	0.4	0.4	1.8	1.4	1.1	0	0	0	0
79-101	0	0.4	2.5	1.4	1.8	1.4	2.5	1.4	1.1	0.7	0	0
102-123	0.4	0.7	1.4	1.8	1.4	2.5	1.8	2.2	0	0.4	0	0
124-146	0	0.4	4	2.9	2.2	0.7	2.2	1.1	0	0	0	0
147-168	0.7	0.4	1.1	1.4	2.5	1.1	1.1	0	0	0	0	0
168-191	0	0	1.4	1.1	1.8	1.8	1.1	0.4	0.4	0	0	0
192-213	0	0	3.6	2.2	1.8	0.7	1.4	0	0	0.4	0	0
214-236	0	0	1.1	0.7	1.8	1.4	1.8	1.4	0.4	0.4	0	0
237-258	0	0	1.1	1.4	0.7	0	1.1	0.4	1.4	0.7	0	0
259-281	0	0	1.4	1.1	0.7	0.4	0.7	0	0	0	0	0
282-303	0	0	0	0.7	0	0.7	0.4	0.4	0	0	0	0
304-326	0	0	0.7	0.4	1.1	0	0	0	0	0	0	0
327-348	0	0	0.4	0	0	0	0	0	0	0	0	0

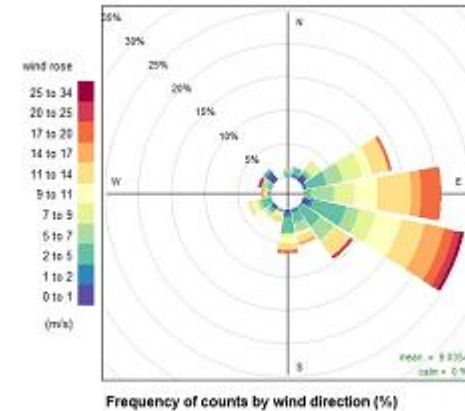


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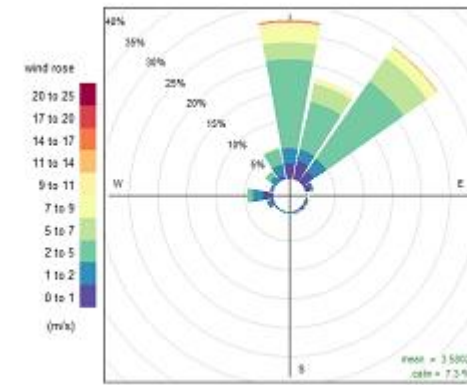
October

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	0.5	0.5	0	0	0	0	0	0	0	0
12-33	0	0.5	1	0	0	0	0	0	0	0	0	0
34-56	1	0	0.5	0.5	1.5	0	0	0	0	0	0	0
57-78	0	0.5	3	2.5	3	1.5	2.5	0	0.5	0	0	0
79-101	0	0	1	3.5	3	3.5	5.1	1.5	3	0	0	0
102-123	1	0.5	5.1	2	2.5	4	3.5	3	1.5	1	0.5	0
124-146	0	0	3.5	2.5	0.5	0	2.5	0	0	0.5	0	0
147-168	0	0.5	1.5	1.5	0	0.5	1	0.5	0	0	0	0
168-191	0.5	0.5	2.5	0	0.5	1	1	0	0.5	0	0	0
192-213	0	0	0.5	0	0	0.5	1	0	0	0	0	0
214-236	0.5	0	0.5	0.5	0.5	0	0	0	0	0	0	0
237-258	0	0	1.5	0.5	0.5	0.5	0.5	0	0	0	0	0
259-281	0	0	0.5	0	0	0	0.5	0.5	0	0	0	0
282-303	0	0	0.5	1	0	0	0	0	0	0.5	0	0
304-326	1	0.5	0.5	0	0	0	0	0	0	0	0	0
327-348	0	0	0	0	0	0	0	0	0	0	0	0

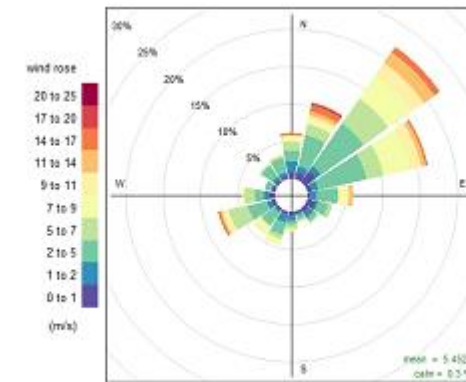


Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	7	2.6	2.6	15.5	2.9	2.6	0.9	0	0.3	0	0	0
12-33		3.2	2	8.5	3.2	0.6	0.3	0	0	0	0	0
34-56		2.3	2.6	16.3	5	2	0	0.3	0	0	0	0
57-78		0.9	0.6	0	0	0	0	0	0	0	0	0
79-101		0	0	0.3	0	0.3	0	0	0	0	0	0
102-123		0.3	0.3	0	0	0	0	0	0	0	0	0
124-146		0.3	0.3	0	0	0	0	0	0	0	0	0
147-168		0	0.3	0.3	0	0	0	0	0	0	0	0
168-191		0	0.3	0	0	0	0	0	0	0	0	0
192-213		0	0.3	0	0	0	0	0	0	0	0	0
214-236		0	0.3	0	0	0	0	0	0	0	0	0
237-258		0.3	0.9	0	0	0.3	0	0	0	0	0	0
259-281		1.7	1.7	0.9	0	0	0	0	0	0	0	0
282-303		0	0.6	0	0	0	0	0	0	0	0	0
304-326		0	1.2	0.9	0.3	0	0	0	0	0	0	0
327-348		0.6	2	2.6	0.3	0	0	0	0	0	0	0



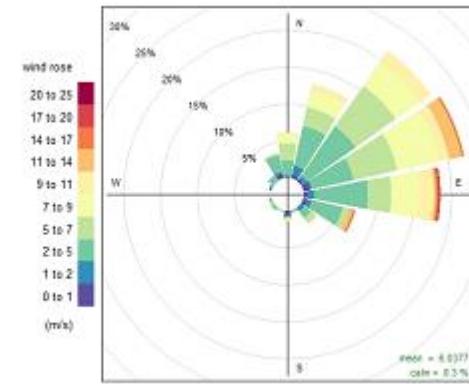
Frequency of counts by wind direction (%)

Speed Direction	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	0.3	0.3	0	0.3	0	0	0	0	0	0
12-33		0.6	0.6	4.6	2.3	0.9	0.9	0.6	0	0	0	0
34-56		2	2.9	9.5	6.3	8.9	2.6	1.1	0.3	0.6	0.3	0
57-78		0.6	2	9.8	10.9	4	3.4	2.3	1.4	0.3	0	0
79-101		0.9	0.9	2.9	2	2.3	0	0	0.3	0	0	0
102-123		0.3	0.6	1.1	0	0	0	0	0	0	0	0
124-146		0.6	0.6	0	0	0	0	0	0	0	0	0
147-168		0.3	0.3	0.3	0.3	0	0	0	0	0	0	0
168-191		0.3	0.3	0	0	0	0	0.3	0	0	0	0
192-213		0	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	0	0	0	0.3	0	0	0	0	0	0
259-281		0.3	0	1.1	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0.3	0.6	0	0	0	0	0	0	0	0	0
327-348		0.3	0	0	0	0	0	0	0	0	0	0



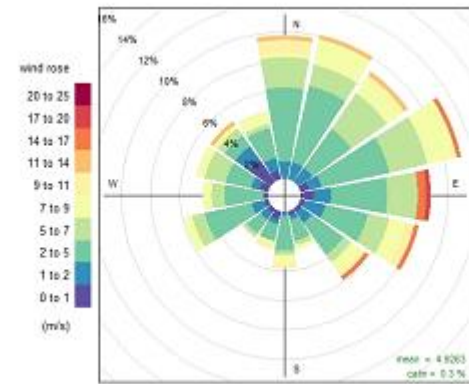
Frequency of counts by wind direction (%)

Speed Direction	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	2.3	1.2	0.3	0	0	0	0	0
12-33		0.6	1.2	5.5	2.6	2.3	0.9	0	0	0	0	0
34-56		0.3	0.6	8.1	6.7	4.1	1.7	0	0	0	0	0
57-78		0.9	0.3	5.8	6.1	5.8	1.4	1.7	0.3	0	0	0
79-101		0.6	0.9	7.2	3.2	3.8	2	0.3	0.3	0.3	0	0
102-123		0.6	0.6	4.3	0.9	0	0	0.6	0.3	0	0	0
124-146		0	0.6	1.2	0.9	0.3	0	0	0	0	0	0
147-168		0	0	0.3	0	0	0.3	0	0	0	0	0
168-191		0.6	0.3	0	0.3	0.3	0	0	0	0	0	0
192-213		0	0	0	0.3	0	0	0	0	0	0	0
214-236		0	0	0.3	0.3	0	0	0	0	0	0	0
237-258		0	0	0.3	0	0.3	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0.3	0	0	0	0	0	0	0	0	0
304-326		0	0	0.9	0	0	0	0	0	0	0	0
327-348		0.6	0.3	2.3	0.3	0	0	0	0	0	0	0



Frequency of counts by wind direction (%)

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.2	5	2.1	0.3	0.9	0.3	0	0	0	0
12-33		0	1.2	5.3	1.5	1.8	0	0.3	0	0	0	0
34-56		0	1.2	3.2	2.9	1.2	0.3	0.3	0	0	0	0
57-78		0.6	0.9	4.7	2.7	2.1	0	0	0.3	0	0	0
79-101		0.9	1.2	3.8	2.1	0	0	0	0.6	0.3	0	0
102-123		0.3	1.5	2.9	1.5	1.2	0.6	0	0.3	0	0	0
124-146		0.3	0.9	2.7	0.6	0.9	0.3	0	0.3	0	0	0
147-168		0.3	0.3	1.5	0.3	0.3	0	0	0	0	0	0
168-191		0	0.3	2.4	0.3	0.6	0.3	0	0	0	0	0
192-213		0.6	0.3	1.2	0	0.3	0.3	0	0	0	0	0
214-236		0.3	0.6	1.2	0.3	0	0	0	0	0	0	0
237-258		0.3	0.9	3.2	0.9	0.6	0	0	0	0	0	0
259-281		0.3	0	2.7	0.9	0.6	0	0	0	0	0	0
282-303		0.6	0.6	1.8	1.5	0.6	0	0	0	0	0	0
304-326		1.8	1.2	0.9	0.6	0.3	0	0.3	0	0	0	0
327-348		0.6	0.9	2.1	0.3	0.9	0	0	0	0	0	0

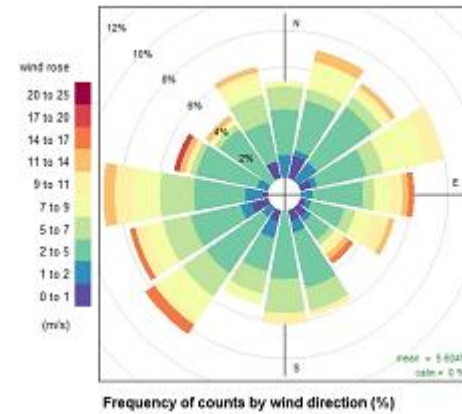


Frequency of counts by wind direction (%)

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November 500 hPa level

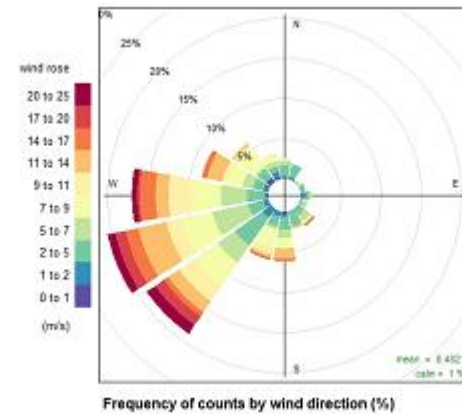
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.2	2.5	1.2	0.3	0	0	0	0	0	0
12-33		1.2	0.3	2.8	0.6	1.5	0	0.6	0	0	0	0
34-56		0	1.2	3.7	0.6	0.3	0.3	0.3	0	0	0	0
57-78		0.6	0.3	2.8	0.9	2.5	0.9	0	0	0	0	0
79-101		0	0.6	2.8	0.6	0.9	0.6	0.3	0.3	0	0	0
102-123		0.3	0.3	1.9	0.6	0.9	0.9	0.3	0	0	0	0
124-146		0.6	0.3	1.2	0.3	0.3	0.3	0.3	0.3	0	0	0
147-168		0.6	0.6	3.1	0.9	0	0.3	0	0	0	0	0
168-191		0	0	3.7	2.2	0	0.6	0	0	0	0	0
192-213		0.6	0.9	1.9	1.2	0.6	0	0	0	0	0	0
214-236		0	0.6	3.7	1.5	1.5	0.3	0	0.6	0	0	0
237-258		0.9	0.6	2.8	1.5	0.9	0.6	0	0.3	0	0	0
259-281		0.3	0.9	2.8	1.9	1.5	0.9	0.6	0	0	0	0
282-303		0	0.6	3.4	0.3	0	0.3	0.3	0	0.3	0	0
304-326		0	0	3.4	0.3	0.3	0	0.3	0	0	0	0
327-348		0.9	0	2.2	1.5	0.9	0.3	0.3	0	0	0	0



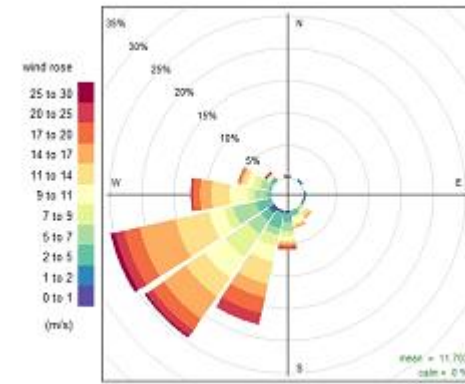
Visakhapatnam

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	0.3	1.3	0.7	0.3	0	0	0	0	0	0
12-33		0	0.3	1.6	0	0	0	0	0	0	0	0
34-56		0	0	0	0.3	0	0	0	0	0	0	0
57-78		0	0	0.7	0	0	0	0	0	0	0	0
79-101		0	0.7	0.3	0.3	0	0	0	0	0	0	0
102-123		0	0	0.3	0.7	0	0	0	0	0	0	0
124-146		0	0	1	1	0.3	0	0	0.3	0	0	0
147-168		0	0	1.6	0	0	0	0.3	0	0	0	0
168-191		0.3	0.3	2	1	1.3	0	1.3	0.3	0	0	0
192-213		0	0.7	1.3	0.3	2.3	1	0.3	0.3	0	0	0
214-236		0	1.3	4.2	2.6	3.6	2.3	1.6	0.7	1.3	1.3	0
237-258		0	0.7	2	4.6	3.9	2	3.6	1.6	1.3	1	0
259-281		0.3	0	2.3	3.3	3.6	2.9	1.6	2	0.3	0.7	0
282-303		0	0.7	1.3	1.3	2	0.7	2	0.7	0	0	0
304-326		0.7	0	1.3	0.3	2.9	0.3	0.3	0	0	0	0
327-348		0.3	0.7	0.7	0.7	0.7	0.3	0	0	0	0	0

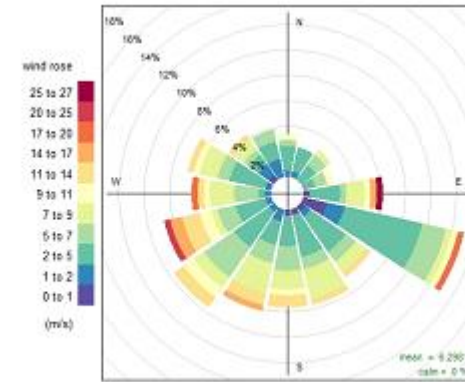


Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0	0	0	0	0	0.4	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0.4	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0.4	0	0	0	0	0	0	0	0	0
102-123		0	0.4	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0.4	0.4	0.4	0.7	0.4	0	0
147-168		0	0	0.7	0.4	0	1.1	0.4	0.4	0	0	0
168-191		0.4	0	1.4	1.4	0.7	0.7	0.4	0.4	0.4	0.4	0
192-213		0.4	0	2.5	1.1	1.8	2.5	3.5	2.1	2.5	1.8	0
214-236		0.7	0.4	1.4	2.5	4.2	3.9	3.5	4.2	2.1	1.1	0.4
237-258		0	0	2.5	3.5	1.4	2.5	5.3	5.7	2.5	1.4	0.7
259-281		0	0	0.7	1.8	1.1	2.8	2.8	1.8	1.1	0.4	0
282-303		0	0	0.4	1.4	1.1	1.1	0.7	0.4	0.4	0	0
304-326		0	0	0.7	0	0	0.4	0.4	0	0	0.4	0
327-348		0	0	0	0	0	0	0	0	0	0	0



Frequency of counts by wind direction (%)

Speed Direction	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	1.9	0.5	0	0.5	0	0	0	0	0
12-33		0	0.5	1.9	0	0	0	0	0	0	0	0
34-56		0	0	1.4	1	0.5	0	0	0	0	0	0
57-78		0	0	1	1	0	0.5	0	0	0	0	0
79-101		0.5	0	2.4	0.5	1.4	0.5	0	0.5	0	0	0.5
102-123		1.9	1.4	6.2	1.9	0.5	0.5	0	0	0.5	0	0
124-146		0.5	0.5	3.4	1	1	0	0.5	0	0	0	0
147-168		0.5	0	2.9	1	2.4	0	0.5	0	0	0	0
168-191		0.5	0	2.9	1.9	1.4	0.5	1	0	0	0	0
192-213		0	1	1.9	1.4	2.4	0	1	0.5	0	0	0
214-236		0	0.5	3.4	2.9	1	1	1	0	0	0	0
237-258		0	0.5	2.4	1.4	0.5	1	1.4	1	0	0.5	0
259-281		0	0.5	0.5	1.9	1.9	0.5	0.5	0	0.5	0	0
282-303		0	0.5	2.9	1	1.4	0.5	0.5	0	0	0	0
304-326		0.5	1	1	0.5	1	0	0.5	0	0	0	0
327-348		0	1.4	1.4	1	0	0	0	0	0	0	0



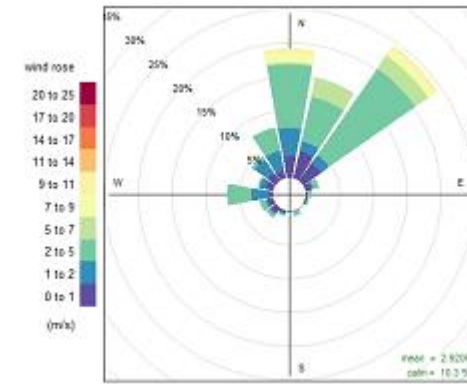
Frequency of counts by wind direction (%)

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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	10	3.2	4.1	9.4	0.3	1.5	0.6	0	0	0	0	0
12-33		4.1	1.5	6.8	2.9	0	0	0	0	0	0	0
34-56		3.2	1.5	15.6	2.4	1.2	0.6	0	0	0	0	0
57-78		0.9	0.3	0.9	0	0	0	0	0	0	0	0
79-101		0.3	0	0.6	0	0	0	0	0	0	0	0
102-123		0.3	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	0.9	0	0	0	0	0	0	0	0
168-191		0	0.3	0	0	0	0	0	0	0	0	0
192-213		0.3	0.3	0.3	0	0	0	0	0	0	0	0
214-236		0.9	0.3	0.6	0	0	0	0	0	0	0	0
237-258		0.9	0.3	0.9	0	0	0	0	0	0	0	0
259-281		0.6	2.6	3.5	0	0	0	0	0	0	0	0
282-303		1.2	0.9	0.3	0	0	0	0	0	0	0	0
304-326		1.5	2.4	0.6	0	0	0	0	0	0	0	0
327-348		1.2	2.9	3.5	0	0	0	0	0	0	0	0



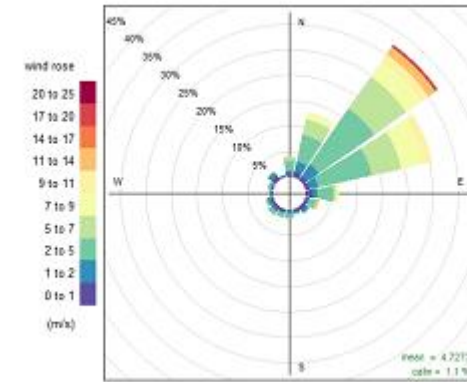
Frequency of counts by wind direction (%)

Visakhapatnam

December

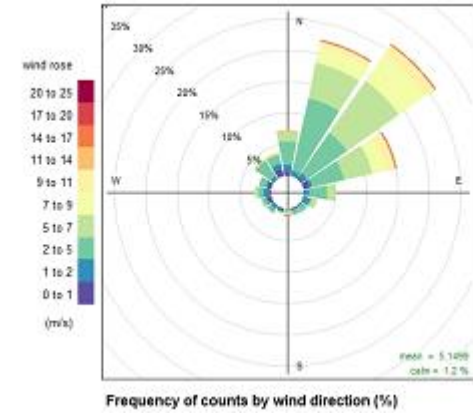
925 hPa level

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	0.6	0.6	2	0.9	0	0	0	0	0	0	0
12-33		1.1	2	5.4	3.1	1.4	0	0	0	0	0	0
34-56		0.9	2.8	13.4	7.7	3.7	1.7	1.7	0	0.6	0	0
57-78		0.9	1.7	10.8	6	4.5	1.7	0	0	0	0	0
79-101		1.4	0.9	3.1	0.6	0.6	0	0	0	0	0	0
102-123		0.6	0.3	1.4	0.3	0	0	0	0.3	0	0	0
124-146		0.9	0.6	0.3	0	0	0	0	0	0	0	0
147-168		0.6	0.3	0.3	0	0	0	0	0	0	0	0
168-191		0	0.9	0.9	0	0	0	0	0	0	0	0
192-213		0.6	0.3	0.9	0	0	0	0	0	0	0	0
214-236		0.6	0.6	0.9	0	0	0	0	0	0	0	0
237-258		0.6	0.6	0.3	0.3	0	0	0	0	0	0	0
259-281		0.6	0	0.3	0	0	0	0	0	0	0	0
282-303		0.3	0.3	0.6	0	0	0	0	0	0	0	0
304-326		0.9	0.9	0.3	0	0	0	0	0	0	0	0
327-348		0.3	0	0.3	0	0	0	0	0	0	0	0

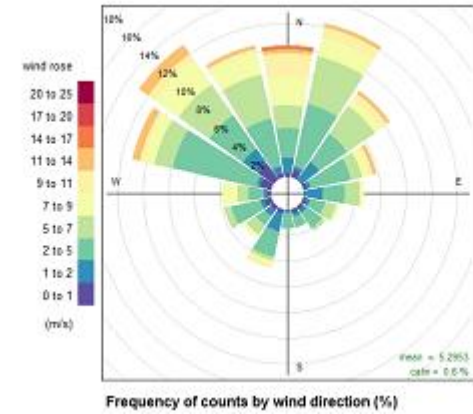


Frequency of counts by wind direction (%)

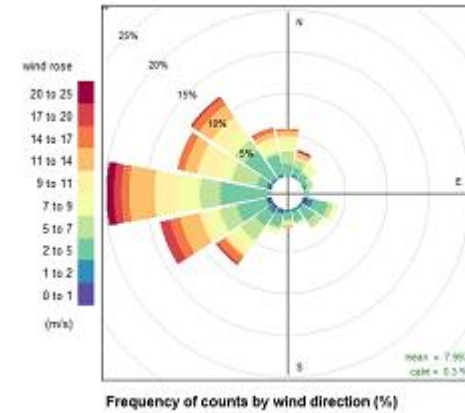
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.6	1.2	3.7	1.4	0	0	0.3	0	0	0	0
12-33		0	0.9	11.8	5.8	2.6	0.9	0	0.3	0	0	0
34-56		0.3	0.9	7.8	10.1	5.2	1.7	0	0.3	0	0	0
57-78		0.9	0.6	5.2	4.6	2.3	1.4	0	0.3	0	0	0
79-101		0	0.9	2.9	1.4	0	0	0	0	0	0	0
102-123		0	1.2	0.3	0.9	0	0	0	0	0	0	0
124-146		0	0.3	0.9	0.3	0	0	0	0	0	0	0
147-168		0.3	0	0.9	0	0	0	0	0	0	0	0
168-191		0	0	0.6	0	0.3	0	0	0.3	0	0	0
192-213		0.3	0.3	0	0.3	0	0	0	0	0	0	0
214-236		0	0.6	0.9	0	0	0	0	0	0	0	0
237-258		0.6	0.3	0.6	0.3	0	0	0	0	0	0	0
259-281		0.3	0.9	0.9	0.6	0	0	0	0	0	0	0
282-303		0.6	0.3	1.2	0	0	0	0	0	0	0	0
304-326		0	0.6	2.9	0.3	0	0.3	0	0	0	0	0
327-348		1.2	0.9	1.4	0.3	0.3	0	0	0	0	0	0



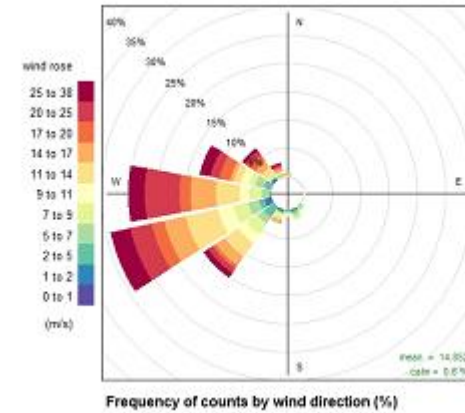
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.3	1.2	2.3	1.8	2.3	1.8	0.3	0.3	0	0	0
12-33		0.6	0.3	5	3.8	1.5	0.9	0.3	0	0	0	0
34-56		0	1.8	2.6	2.6	0.6	0.6	0.3	0	0	0	0
57-78		0.3	0.3	3.2	0.9	0.6	0.3	0.3	0	0	0	0
79-101		0	1.5	1.8	1.2	0.3	0	0	0	0	0	0
102-123		0.3	0.3	1.2	0.9	0.3	0	0	0	0	0	0
124-146		0.3	0.3	1.5	0.3	0	0	0	0	0	0	0
147-168		0.3	0.3	0.9	0	0	0	0	0	0	0	0
168-191		0	0.3	1.2	0	0	0	0	0	0	0	0
192-213		0.3	1.5	2	0.3	0.3	0.3	0	0	0	0	0
214-236		0.3	0.6	0.9	0.9	0.3	0	0	0	0	0	0
237-258		0.6	0.3	2.3	0.6	0	0	0	0	0	0	0
259-281		0.3	0.3	1.2	0.9	1.2	0	0	0	0	0	0
282-303		0.9	0.3	6.7	1.5	0.9	0.3	0.6	0	0	0	0
304-326		1.5	1.5	3.2	2.9	2.3	0.6	0.9	0	0	0	0
327-348		0.3	0.6	3.8	3.5	1.8	0.3	0.3	0	0	0	0



Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.5	1.5	1.2	0.6	0.6	0.3	0	0	0	0
12-33	0	0.3	0.9	0.9	0	0.3	0.6	0	0.3	0	0	0
34-56	0	0	0.9	0.3	1.2	0	0	0	0	0	0	0
57-78	0	0.3	0.3	0.6	0	0	0	0	0	0	0	0
79-101	0	0	0.6	0	0	0	0	0	0	0	0	0
102-123	0.6	0.6	1.8	0.6	0.6	0	0	0	0	0	0	0
124-146	0	0.3	1.8	0.9	0.3	0	0	0	0	0	0	0
147-168	0	0.3	1.2	0.3	0	0	0	0	0	0	0	0
168-191	0	0.3	0.9	0.3	0	0.3	0.3	0	0	0	0	0
192-213	0.3	0.3	1.5	0.3	0.6	0	0	0	0	0	0	0
214-236	0.3	0.6	1.8	2.1	1.2	0.9	0.3	0.9	0.3	0	0	0
237-258	0.6	0	3.6	2.1	1.5	0.9	2.4	1.2	1.2	0	0	0
259-281	0	0	6.1	2.4	2.7	2.7	3	0.9	0.9	0.9	0	0
282-303	0.3	0.3	1.2	3	1.5	2.7	1.5	0.9	0	0	0	0
304-326	0	0.3	4	1.5	1.5	1.8	1.8	0.9	0.3	0	0	0
327-348	0	0.3	2.4	0.3	1.2	0.6	0.6	0.6	0	0	0	0



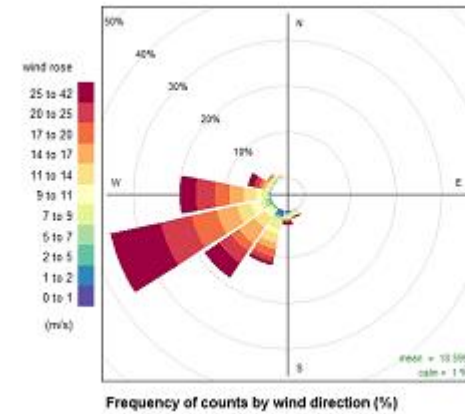
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0.3	0	0	0.3	0	0	0	0
12-33	0	0	0	0	0	0	0	0	0	0	0	0
34-56	0	0	0	0	0	0	0	0	0	0	0	0
57-78	0	0	0	0	0	0	0	0	0	0	0	0
79-101	0	0	0	0	0	0.3	0	0	0	0	0	0
102-123	0	0	0	0	0	0	0	0	0	0	0	0
124-146	0	0	0	0.6	0.3	0	0	0	0	0	0	0
147-168	0	0.3	0.3	0.6	0.6	0	0	0	0	0	0	0
168-191	0	0	0.3	0.3	0.3	0.3	0	0	0	0	0	0
192-213	0.3	0	0.3	0	1	0	0.3	0.6	0	0	0	0
214-236	0	0	2.3	1.3	2.3	1.9	2.9	1.9	0.6	1	1	1
237-258	0.3	1	1	1.9	2.6	2.9	5.8	3.9	2.3	3.9	3.5	3.5
259-281	0	0	0.3	1.3	2.3	1.6	4.2	4.5	1.9	6.1	2.9	2.9
282-303	0	0	1.3	1.6	1	1.6	1.3	0.6	1.9	1.6	1.9	1.9
304-326	0.3	0	0.3	0	0.3	0	1.6	1.3	1.3	1	0.6	0.6
327-348	0	0	0	0.6	0	0.3	0	0.6	0.3	0.3	0.3	0.3



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December 200 hPa level

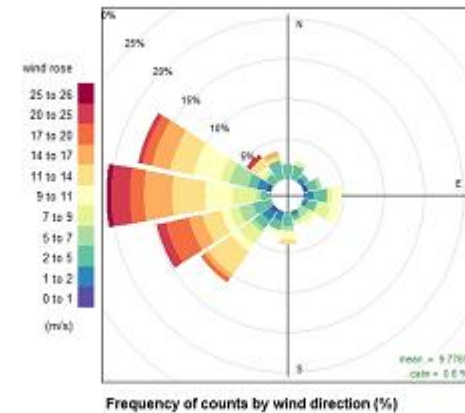
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +	
349-11	0	0	0	0	0	0	0	0	0	0	0	0	
12-33		0	0	0	0	0	0	0	0	0	0	0	
34-56		0	0	0	0	0	0	0	0	0	0	0	
57-78		0	0	0	0	0	0	0	0	0	0	0	
79-101		0	0	0	0	0	0	0	0	0	0	0	
102-123		0	0	0	0	0	0	0	0	0	0	0	
124-146		0	0	0	0	0	0	0	0	0	0	0	
147-168		0	0	0	0	0.3	0.7	0.3	0	0	0	0	0.3
168-191		0	0.3	0.3	0.3	0.3	0.3	0	0.3	0.3	0	0.3	0.7
192-213		0.3	1	0	0.7	2.1	1	2.1	1.4	1.7	1	0.7	
214-236		0	0	0.3	0	0.7	1.4	2.8	4.2	2.1	3.1	3.8	
237-258		0	0	0.7	0.7	1	2.1	3.1	4.5	5.6	7	11.1	
259-281		0	0	0.3	0.3	1.4	1	2.8	3.1	3.1	4.2	3.5	
282-303		0	0	0	0.3	0	0.3	0.7	0.7	0.7	1	1.4	
304-326		0	0	0	0.3	0.7	0	0	0.3	0.3	0	0	
327-348		0	0	0	0	0	0	0.3	0	0.3	0	0	0



Visakhapatnam

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	1.8	0	0	0	0	0	0	0	0
12-33		0	0	1.8	0	0.6	0	0	0	0	0	0
34-56		0	0.6	0.6	0	0	0	0	0	0	0	0
57-78		0.6	0	1.2	0.6	0	0	0	0	0	0	0
79-101		0	1.2	1.8	0	0.6	1.2	0	0	0	0	0
102-123		0	0.6	1.2	0	1.8	1.2	0	0	0	0	0
124-146		0	0	0	1.2	0.6	0.6	0	0	0	0	0
147-168		0	0.6	0.6	0	0.6	0	0	0	0	0	0
168-191		0	0	1.8	0.6	0	1.2	0.6	0	0	0	0
192-213		0	1.2	1.2	0	0	0.6	0	0	0	0	0
214-236		0.6	1.2	1.2	0.6	1.8	1.2	3.5	0.6	0.6	0	0
237-258		0	0	2.4	1.8	1.2	1.2	2.4	1.8	2.9	1.2	0
259-281		0	0	1.2	0.6	2.9	3.5	4.1	3.5	1.8	2.4	0.6
282-303		0.6	1.2	1.2	2.4	1.2	3.5	2.9	2.4	1.2	0.6	0
304-326		0	0	1.2	0	0.6	0.6	1.2	0	0	0.6	0
327-348		0	0	2.4	0	0	0	0.6	0.6	0	0	0



PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1007.3	1016	1001	21.6	27.4	16.2	18.2	27	1.1	-0.5	-1	2.1
1000	107	164	45	21.5	26.7	16.4	17.9	35	1.2	-0.7	-1	2.5
950	551	649	445	20	28.6	8.4	15.1	58	1.9	-1.6	-1	3.7
925	779	837	732	18.7	27	13.4	12.6	53	2	-1.6	-1.2	3.6
900	1016	1094	962	17.5	26.4	9.4	10.4	55	2.1	-1.7	-1.2	3.8
850	1503	1586	1406	15.2	25.8	8.6	5.3	37	2.1	-1.3	-1.7	4.3
800	2014	2098	1909	13	24.6	5.6	-0.1	9	1.9	-0.3	-1.9	4.9
750	2554	2639	2453	10.9	21.6	1	-5.1	324	2.2	1.3	-1.8	5.6
700	3127	3217	3018	8.4	18	1.2	-9	298	3.2	2.8	-1.5	6.3
650	3735	3845	3623	5.4	14.2	-5.9	-12.9	286	4.5	4.3	-1.2	7.4
600	4385	4542	4271	2	12	-7.1	-16.3	280	5.9	5.8	-1	8.6
550	5080	5235	4965	-2	7.2	-11.3	-19.4	275	7.3	7.3	-0.6	10
500	5831	6006	5691	-6.6	2.8	-17.7	-23	271	9	9	-0.1	11.7
450	6645	6837	6476	-11.8	-3.3	-21.3	-27.2	269	11	11	0.2	13.7
400	7537	7744	7335	-17.6	-7.9	-26.9	-32.1	267	13.1	13.1	0.6	16.1
350	8522	8743	8286	-24.3	-12.7	-37.9	-38.1	264	15.4	15.3	1.5	18.2
300	9628	9886	9366	-32.1	-17.5	-42.5	-45.7	261	17.6	17.4	2.9	20.3
250	10888	11184	10617	-41.8	-31.1	-54.1	-55.1	256	19.5	18.9	4.7	21.9
200	12361	12762	12052	-53.2	-42.9	-64.1	-66.3	252	18.9	18	5.8	21.1
175	13207	13649	12876	-59.6	-49.1	-72.7		251	17	16.1	5.4	19.2
150	14154	14634	13806	-66.6	-55.3	-76.3		251	15.4	14.5	5.1	17.7
125	15249	15766	14877	-72.7	-57.5	-83		252	11.4	10.8	3.5	13.3
100	16534	17094	16161	-78.4	-65.1	-89.9		256	7.2	7	1.8	9.8
80	17813	18394	17423	-75.7	-61.3	-87.7		264	4.5	4.5	0.5	6.8
70	18597	19164	18187	-72.5	-57.1	-84.5		268	3.8	3.8	0.1	6
60	19462	20070	19088	-67.8	-50.9	-80.7		268	2.5	2.5	0.1	4.8
50	20620	21164	20179	-62.5	-42.7	-75.3		277	1.6	1.6	-0.2	4.4
40	22017	22639	21551	-57.9	-40.1	-68.5		14	0.4	-0.1	-0.4	4.3
30	23843	24576	23366	-53.1	-36.9	-63.1		344	0.7	0.2	-0.7	4.4
25	25011	25786	24527	-51.2	-35.1	-60.3		315	0.7	0.5	-0.5	5
20	26437	27174	25968	-49.8	-38.5	-57.7		270	1.9	1.9	0	5.2
15	28303	29103	27832	-47.4	-39.9	-54.7		260	2.9	2.9	0.5	5
10	31022	31847	30484	-43.5	-37.3	-52.3		261	5.2	5.1	0.8	6.4
7	33318	33471	33164	-41.4	-40.7	-42.1		246	14	12.8	5.7	14

FREEZING LEVEL

P	Height	H_max	H_min
576	4725	6210	3220

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16673	-80

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1005.6	1012	998	23.2	28	19.6	20.1	252	0.9	0.9	0.3	2.4
1000	92	149	43	23.2	27.3	19.7	19.9	254	0.7	0.7	0.2	2.6
950	539	593	439	21.8	31.8	14.2	15.9	221	1.1	0.7	0.8	4.1
925	769	821	715	20.8	28.8	15.2	13.8	220	0.8	0.5	0.6	3.8
900	1007	1065	949	19.6	31	11.8	10.7	219	0.6	0.4	0.5	3.9
850	1497	1569	1427	16.9	26.2	9.2	6.6	329	0.6	0.3	-0.5	4.4
800	2012	2092	1931	13.8	23.6	5.6	2.4	333	1.6	0.7	-1.4	5.1
750	2552	2644	2414	10.7	21	3.4	-2.4	320	2.6	1.7	-2	5.9
700	3124	3244	3031	7.9	18.8	0.4	-7.3	304	3.6	3	-2	6.8
650	3731	3873	3603	5	14.8	-5.3	-12	289	4.6	4.4	-1.5	7.9
600	4379	4536	3920	1.7	10.2	-6.1	-16.2	281	6.2	6.1	-1.2	9.3
550	5075	5241	4922	-2.3	6.6	-9.7	-19.3	277	7.7	7.6	-0.9	10.9
500	5825	6007	5692	-6.8	0.4	-13.8	-23.1	274	9.2	9.2	-0.7	12.5
450	6639	6832	6489	-11.9	-3.7	-19.6	-28.2	272	10.8	10.8	-0.4	14.1
400	7531	7747	7360	-17.7	-9.3	-26.1	-33.4	271	12.9	12.9	-0.2	16.3
350	8516	8752	8326	-24.5	-15.9	-33.9	-39.6	267	14.9	14.9	0.7	18.4
300	9621	9888	9416	-32.4	-23.5	-42.9	-47	262	17.3	17.1	2.4	20.3
250	10879	11180	10646	-42.1	-32.1	-53.6	-56.6	255	18.1	17.5	4.6	20.6
200	12352	12698	12086	-53.2	-38.5	-65.3	-66.6	253	17.9	17.2	5.1	20.3
175	13199	13528	12935	-59.5	-46.1	-69.7	-63.9	251	16.1	15.2	5.2	18.3
150	14145	14528	13854	-66.3	-51.9	-78.3		250	14.2	13.4	4.8	16.5
125	15224	15624	14917	-72.9	-59.3	-87.1		254	10	9.6	2.8	12.6
100	16495	16945	15917	-78.9	-68.1	-89.9		266	6.2	6.2	0.4	9.4
80	17759	18238	17171	-76.5	-62.1	-86.1		277	3.5	3.5	-0.4	6.6
70	18539	19004	17919	-73	-59.9	-84.1		274	2.6	2.6	-0.2	5.7
60	19455	19951	18865	-68.8	-56.1	-79.1		273	2	2	-0.1	4.7
50	20560	21083	20002	-63.8	-50.8	-80.3		274	1.5	1.5	-0.1	4.2
40	21951	22514	21602	-59.1	-36.1	-81.8		11	0.5	-0.1	-0.5	4.1
30	23780	24409	23256	-54.4	-43.1	-84		27	0.7	-0.3	-0.6	3.8
25	24970	25600	24551	-51.6	-40.1	-61.4		56	0.4	-0.3	-0.2	4.1
20	26440	27011	25960	-48.8	-38.1	-56.3		180	0.1	0	0.1	4.3
15	28333	28878	27798	-46.5	-40.1	-54.1		277	2.6	2.6	-0.3	4.2
10	31098	31616	30429	-43.9	-37.1	-49.7		265	1.2	1.2	0.1	2.2
7	33880	34120	33706	-39.4	-38.1	-41.5						

FREEZING LEVEL

P	Height	H_max	H_min
580	4660	5940	3200

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16638	-80.4

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1003.5	1011	997	25.3	29.8	20.4	22.1	237	2.4	2	1.3	2.9
1000	77	139	32	25.2	31.4	20.2	21.7	236	2.3	1.9	1.3	2.9
950	524	594	447	24.1	31.8	16	16.8	235	4	3.3	2.3	4.9
925	756	809	708	23.9	32.4	16	13.6	234	3.7	3	2.2	4.8
900	997	1054	914	22.8	31.4	14	10.3	236	3	2.5	1.7	4.4
850	1492	1550	1422	20.1	27.6	12.6	6.4	259	1.5	1.5	0.3	4
800	2011	2071	1943	16.5	24.4	5.6	3.6	320	1.6	1	-1.2	4.4
750	2556	2620	2408	12.2	23.8	1.6	0.5	333	2.5	1.1	-2.2	5.2
700	3130	3209	3033	8.1	23	-5.5	-3.4	330	3.2	1.6	-2.8	6
650	3737	3832	3650	4.5	14.4	-5.1	-8.7	315	3.7	2.6	-2.6	6.5
600	4386	4750	4281	1.1	10	-7.1	-13.6	298	4.3	3.8	-2	7.5
550	5079	5214	4922	-2.6	6	-10.3	-18.6	286	5.4	5.2	-1.5	8.6
500	5829	5973	5693	-7.1	2.6	-14.9	-23.2	278	6.9	6.8	-0.9	10.2
450	6642	6808	6489	-12.3	-2.9	-22.5	-27.4	273	8.6	8.6	-0.4	11.9
400	7533	7740	7361	-18.1	-6.5	-31.1	-32.5	269	10.6	10.6	0.2	14.1
350	8517	8761	8321	-24.7	-14.1	-35.5	-38.3	263	13	12.9	1.6	16.6
300	9621	9920	9398	-32.5	-21.3	-45.1	-44.9	259	15.6	15.3	3.1	19
250	10881	11242	10625	-41.8	-30.9	-53.9	-55.1	255	17.3	16.7	4.6	20.2
200	12356	12786	12038	-52.7	-40.7	-61.9	-65.5	254	17.6	16.9	5	20.3
175	13206	13669	12862	-58.9	-45.8	-67.9	-69.3	255	15.6	15	4.1	18.4
150	14158	14651	13790	-65.7	-51.3	-75.3		254	13.8	13.3	3.8	16.8
125	15245	15766	14847	-72	-58.1	-84.6		252	9.4	8.9	2.9	12.1
100	16538	17081	16155	-77.7	-64.5	-89.9		257	5.5	5.4	1.2	8.7
80	17815	18400	17409	-75.6	-60.3	-85.1		260	2.2	2.2	0.4	5.7
70	18596	19150	18172	-72.2	-58.3	-83.3		261	1.8	1.8	0.3	5.2
60	19471	20160	19070	-67.8	-56.8	-86.9		266	1.4	1.4	0.1	4.4
50	20624	21324	20162	-62.4	-47.1	-74.7		290	1.2	1.1	-0.4	4.4
40	22009	22771	21544	-57.2	-43.1	-66.1		29	1	-0.5	-0.9	3.8
30	23850	24332	23366	-52.2	-40.1	-60.1		55	1.2	-1	-0.7	4.3
25	25028	25565	24546	-49.7	-35.5	-57.7		78	1.4	-1.4	-0.3	4.1
20	26515	27095	26181	-47.1	-37.5	-56.3		68	0.5	-0.5	-0.2	4
15	28446	28883	28122	-44.6	-34.7	-52.7		253	1	1	0.3	3.5
10	31196	31656	30803	-41.7	-35.1	-47.3		260	2.3	2.3	0.4	2.6
7	33555	33703	33270	-40.6	-33.7	-43.9		249	0.9	0.8	0.3	1.2

FREEZING LEVEL

P	Height	H_max	H_min
586	4584	6350	2980

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
97	16765	-79.8

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1001.1	1008	995	27.1	30	23.4	24	234	3.7	3	2.2	4.1
1000	61	115	-1	26.8	29.6	23.4	23.8	233	3.4	2.7	2	3.8
950	506	586	446	25.4	32	19	19.8	235	6.3	5.2	3.6	7
925	741	795	687	25	32	17.6	17.6	231	5.9	4.6	3.7	6.6
900	981	1049	926	24.7	33	16.6	13.1	236	5	4.2	2.8	6
850	1481	1546	1422	22.7	29.6	13.4	8.3	247	2.5	2.3	1	4.5
800	2005	2066	1929	19.2	27.6	11	5.2	305	1.2	1	-0.7	4.1
750	2555	2620	2458	14.9	25.4	6.2	2.5	357	2	0.1	-2	4.7
700	3134	3207	3056	10.2	20.4	2.8	-0.5	360	2.8	0	-2.8	5.5
650	3745	3837	3649	5.5	15.4	-1.3	-4.3	356	3.2	0.2	-3.2	6.1
600	4395	4507	4301	1.3	11	-5.5	-9.6	338	3.1	1.2	-2.9	6.4
550	5090	5219	4973	-2.5	7.2	-10.1	-15.2	310	3.1	2.4	-2	6.8
500	5841	5983	5718	-6.5	1.8	-14.1	-21	289	4	3.8	-1.3	7.6
450	6657	6807	6520	-11.3	-3.5	-21.7	-26.3	276	5.4	5.4	-0.6	9
400	7551	7727	7384	-17	-8.7	-25.7	-31.2	269	7.2	7.2	0.1	10.9
350	8539	8744	8358	-23.7	-13.3	-32.3	-36.6	265	9.2	9.2	0.8	12.6
300	9649	9892	9448	-31.4	-20.1	-40.3	-43.4	261	11.7	11.6	1.8	14.8
250	10914	11198	10681	-40.9	-28.5	-52.9	-52.5	257	14.2	13.9	3.1	17.1
200	12394	12736	12125	-52.1	-38.3	-65.1	-64.7	253	15	14.4	4.3	17.5
175	13244	13626	12950	-58.5	-48.1	-69.3	-65.3	253	13.9	13.3	4	16.2
150	14198	14626	13868	-65.4	-53.5	-75.1	-74.9	255	11.7	11.3	3	14.1
125	15290	15772	14928	-72.2	-59.1	-86.7		259	7.7	7.6	1.5	10.6
100	16575	16987	16099	-78.2	-65.4	-89.9		270	3.4	3.4	0	7.8
80	17861	18295	17432	-75.6	-61.2	-88.7		315	1.1	0.8	-0.8	6.1
70	18645	19091	18223	-71.9	-56.9	-87.9		349	0.5	0.1	-0.5	5.5
60	19533	20033	19111	-67.2	-53.4	-81.9		9	0.6	-0.1	-0.6	4.5
50	20675	21171	20093	-61.8	-47.1	-76.1		18	1.6	-0.5	-1.5	4.8
40	22079	22625	21498	-56.6	-44.9	-68.1		51	2.1	-1.6	-1.3	4.8
30	23929	24529	23342	-50.7	-38.3	-63.1		63	3.1	-2.8	-1.4	5.8
25	25123	25700	24527	-48.3	-35.2	-63.9		65	3.1	-2.8	-1.3	5.9
20	26600	27236	25951	-45.7	-33.5	-60.1		77	3.2	-3.1	-0.7	6.5
15	28492	29169	27797	-43.9	-30.9	-59.1		105	1.6	-1.5	0.4	3.9
10	31259	32064	30408	-41.1	-28.1	-51.1		107	1	-1	0.3	3.5
7	33574	34430	32744	-41	-34.3	-48.1		139	1.1	-0.7	0.8	3.2

FREEZING LEVEL

P	Height	H_max	H_min
582	4643	6120	3490

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
96	16865	-80.2

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	997.5	1006	966	28.6	33.4	24	25	231	3.6	2.8	2.3	4.3
1000	44	101	-29	28	31	23.4	24.7	232	3.3	2.6	2	4.1
950	478	594	390	26.6	38.2	19.8	22	235	6.5	5.3	3.7	7.5
925	711	772	621	26.3	39.4	17.6	19.6	237	6.6	5.5	3.6	7.8
900	956	1028	856	25.4	39.2	15.9	16.8	239	5.7	4.9	3	7.1
850	1457	1530	1343	23.6	36.2	12.6	11.9	254	3.3	3.2	0.9	5.7
800	1984	2070	1856	20.5	30.2	8.1	7.7	302	1.9	1.6	-1	5.2
750	2536	2636	2396	16.4	28.2	6.8	4.2	344	2.5	0.7	-2.4	5.7
700	3119	3230	2966	11.9	23.8	3	1	358	3.4	0.1	-3.4	6.5
650	3733	3857	3567	7	18.8	-0.1	-2.1	6	4	-0.4	-4	7
600	4387	4530	4204	2.2	12.6	-4.5	-5.9	5	4.2	-0.4	-4.2	7.1
550	5083	5252	4891	-2	7	-11.9	-10.6	2	3.7	-0.1	-3.7	6.7
500	5836	6029	5637	-5.8	2	-16.7	-16.5	354	3	0.3	-3	6.6
450	6655	6869	6450	-9.9	-1.3	-22.1	-21.3	340	2	0.7	-1.9	6.5
400	7556	7786	7343	-14.8	-4.9	-28.3	-26.9	298	1.9	1.7	-0.9	7.1
350	8554	8805	8328	-21.2	-10.9	-38.3	-32.4	274	3	3	-0.2	7.3
300	9675	9950	9375	-29.1	-17.1	-43.7	-39.2	259	4.1	4	0.8	7.5
250	10951	11256	10584	-38.9	-27.3	-52.7	-48.1	247	4.8	4.4	1.9	8
200	12444	12776	12022	-50.7	-38.7	-64.7	-59.4	235	4.7	3.8	2.7	8.7
175	13300	13650	12947	-57.6	-44.5	-71.7	-62.5	224	3.9	2.7	2.8	8.7
150	14255	14632	13850	-65.1	-51.5	-78.3	-71.2	207	2.9	1.3	2.6	8.8
125	15346	15738	14889	-72.5	-56.1	-88.7		135	2.1	-1.5	1.5	8.8
100	16637	17087	16161	-78.7	-67.1	-92.9		85	4.8	-4.8	-0.4	9.1
80	17913	18433	17434	-75.9	-58.7	-89.1		76	6.3	-6.1	-1.5	8.8
70	18695	19280	18171	-71.9	-53.9	-88.3		75	6.3	-6.1	-1.6	8.6
60	19487	20202	19054	-66.5	-49.5	-80.5		75	6	-5.8	-1.5	7.6
50	20732	21360	20128	-61.1	-45	-74.1		71	6.4	-6	-2.1	7.9
40	22130	22810	21478	-56.4	-42.5	-70.1		75	6.9	-6.7	-1.8	8.7
30	23972	24730	23211	-51.3	-36.9	-64.3		75	8.4	-8.1	-2.1	10.2
25	25150	25990	24333	-48.9	-33.1	-62.9		79	9.1	-8.9	-1.7	11.2
20	26631	27508	25720	-46.4	-36.5	-60.1		78	9.1	-8.9	-1.9	11.4
15	28535	29509	27529	-43.8	-32.1	-58.1		65	6.8	-6.2	-2.9	9.1
10	31193	31814	30103	-41.7	-33.5	-54.7		55	6	-4.9	-3.4	8.3
7	33478	34000	33093	-39.5	-32.7	-48.1		20	9.5	-3.3	-8.9	11.4

FREEZING LEVEL

P	Height	H_max	H_min
574	4749	6400	3640

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
97	16864	-80.6

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	994.4	1003	981	28.5	32.2	23.4	24.8	241	4.1	3.6	2	4.7
1000	3	71	-90	28.6	30.8	26.6	25.7	240	2.8	2.4	1.4	3.2
950	450	526	329	26.8	35.6	17.8	22.3	243	7.6	6.8	3.4	8.6
925	687	743	562	26	33.8	19.6	20.7	240	8.6	7.4	4.3	9.9
900	928	1002	801	24.9	33.6	14	18.9	250	8	7.5	2.8	9.7
850	1428	1502	1297	22.3	31.2	11.4	15.8	259	7.1	7	1.3	9.5
800	1952	2029	1819	19.1	28.9	10.4	12.7	270	5.8	5.8	0	8.6
750	2503	2579	2370	15.5	23.2	7.4	9.2	281	4.6	4.5	-0.9	7.8
700	3086	3178	2953	11.7	20.8	5	5.8	292	3.8	3.5	-1.4	7.4
650	3701	3802	3573	7.8	16	1	2.1	301	3.1	2.7	-1.6	7.1
600	4358	4480	4226	3.9	13.2	-3.9	-1.6	313	2.5	1.8	-1.7	6.8
550	5060	5209	4914	0	9.8	-6.1	-5.5	321	1.9	1.2	-1.5	6.1
500	5820	5996	5666	-3.8	5.6	-11.5	-10	326	1.4	0.8	-1.2	5.7
450	6645	6852	6478	-8.1	8	-16.5	-15.4	360	1	0	-1	5.3
400	7553	7791	7370	-13.2	-4.1	-24.3	-21.2	42	1.2	-0.8	-0.9	5.1
350	8558	8835	8350	-19.5	-9.1	-31.9	-27.6	72	2.3	-2.2	-0.7	5.2
300	9675	10005	9453	-27.3	-18.9	-38.5	-35.7	81	4	-4	-0.6	6.2
250	10974	11337	10698	-37.4	-27.7	-45.7	-45.1	83	6.3	-6.2	-0.8	8.3
200	12475	12925	12165	-49.7	-38.1	-61.4	-56.9	82	9.3	-9.2	-1.3	11.4
175	13334	13701	13006	-57	-48.7	-73.3	-62.8	80	11.2	-11	-1.9	13.7
150	14290	14681	13924	-64.9	-55.7	-76.9	-70	79	13.8	-13.6	-2.6	16.4
125	15386	15796	14975	-72.6	-60.3	-88.2	-85.5	79	16.3	-16	-3	19.3
100	16669	17115	16230	-78.9	-63.2	-89.9		80	17.1	-16.9	-2.9	20.2
80	17949	18404	17458	-75.6	-56.6	-89.1		79	15.1	-14.8	-2.8	17.6
70	18733	19220	18201	-70.9	-54.8	-89.1		77	14.1	-13.7	-3.2	16.3
60	19480	20097	19223	-66	-43.7	-82.1		75	12.1	-11.7	-3.1	13.9
50	20774	21252	20346	-61	-45.1	-75.9		73	11.8	-11.3	-3.4	13.9
40	22175	22715	21757	-56.7	-40.1	-70.7		72	10.3	-9.8	-3.2	12.5
30	24010	24607	23507	-52.4	-33.3	-63.7		75	11.2	-10.8	-2.9	13.5
25	25164	25815	24700	-50.5	-34.5	-58.5		67	10.7	-9.8	-4.2	14
20	26615	27357	26125	-47.6	-31.5	-55.5		66	11.4	-10.4	-4.7	15.6
15	28487	29056	27986	-45.4	-34.2	-52.7		39	10.2	-6.5	-7.9	14.8
10	31125	31757	30679	-41.2	-31.1	-49.3		9	12.1	-1.8	-12	12.9
7	33493	34006	33050	-38.6	-31.7	-47.1		3	18.8	-0.9	-18.8	19.6

FREEZING LEVEL

P	Height	H_max	H_min
550	5066	6900	3500

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16833	-80.9

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	994.9	1001	983	27.3	31	23	24.4	245	4	3.6	1.7	4.5
1000	3	59	-59	28	29.8	26.4	25.5	232	4.6	3.6	2.8	4.9
950	453	573	347	25.6	35.4	17.6	22.2	245	7.4	6.7	3.1	8.2
925	685	801	616	24.5	32.8	16.8	20.7	243	8	7.1	3.6	9.2
900	928	1035	818	23.4	33.8	15.2	19.1	253	8.1	7.7	2.4	9.6
850	1425	1518	1310	20.5	31.4	10.2	16.4	261	7.9	7.8	1.2	10.2
800	1947	2063	1831	17.5	29.2	10	13.8	268	7.5	7.5	0.2	10.1
750	2495	2619	2380	14.3	24.6	5.4	10.7	272	6.7	6.7	-0.2	9.2
700	3076	3208	2968	11	20	3.6	7.4	272	5.6	5.6	-0.2	8.1
650	3691	3830	3580	7.6	18.4	-0.3	3.7	270	4.5	4.5	0	7
600	4348	4481	4221	4.1	12.4	-4.1	-0.2	268	3.5	3.5	0.1	6.5
550	5051	5191	4906	0.6	8.6	-7.1	-4.4	263	2.3	2.3	0.3	5.9
500	5813	5971	5645	-3.4	4.2	-11.3	-9.1	265	1.1	1.1	0.1	5.2
450	6638	6803	6449	-7.8	0	-15.7	-14.3	117	0.2	-0.2	0.1	4.7
400	7547	7719	7331	-13.2	-4.1	-22.1	-20.3	90	2	-2	0	4.9
350	8552	8776	8306	-19.6	-10.5	-27.9	-27.2	87	4	-4	-0.2	5.9
300	9681	9896	9396	-27.5	-18.9	-37.5	-35.6	85	6.3	-6.3	-0.6	7.8
250	10968	11222	10694	-37.6	-27.1	-48.9	-45.7	82	9.8	-9.7	-1.4	11.4
200	12466	12778	12143	-49.9	-38.5	-67.7	-57.1	76	13.9	-13.5	-3.4	15.8
175	13326	13659	12971	-57	-46.5	-70.9	-62.6	75	16.3	-15.7	-4.3	18.1
150	14286	14643	13892	-64.9	-53.7	-79.5	-70.8	73	18.5	-17.7	-5.5	20.6
125	15382	15793	14945	-72.7	-60.9	-88.7		73	21.6	-20.6	-6.4	24.3
100	16673	17139	16247	-78.2	-64.3	-89.1		74	21.6	-20.7	-6	24.8
80	17966	18478	17507	-72.5	-56.6	-85.1		76	17.6	-17.1	-4.3	20.4
70	18769	19300	18277	-68.2	-54.9	-81.5		75	15.8	-15.2	-4.2	18.3
60	19339	20297	19216	-63.9	-50.5	-76.9		72	14.2	-13.5	-4.4	16.6
50	20828	21487	20286	-59.8	-44.1	-74.1		73	12.7	-12.1	-3.7	14.9
40	22247	22977	21775	-56.3	-38.1	-65.9		72	11.1	-10.5	-3.5	13.3
30	24090	24920	23578	-51.9	-25.9	-63.3		74	11.5	-11	-3.2	14.3
25	25265	26200	24725	-50	-34.1	-64.5		68	9.4	-8.7	-3.5	12.3
20	26734	27400	26184	-48	-30.5	-57.9		61	9.2	-8.1	-4.4	12.7
15	28624	29384	28067	-45.9	-33.7	-56.5		39	7	-4.4	-5.4	9.7
10	31309	31919	30754	-42.9	-34.5	-54.9		15	6.2	-1.6	-6	7.4
7	33661	34395	33187	-39.8	-28.4	-52.1		352	13.8	2	-13.7	14.1

FREEZING LEVEL

P	Height	H_max	H_min
543	5164	6730	3580

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16648	-79.8

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	995.3	1003	956	27	30	24	24.1	245	3.8	3.4	1.6	4.2
1000	16	73	-80	27.1	29.8	25.2	24.8	237	3.1	2.6	1.7	3.5
950	457	568	358	25.3	33	17.6	21.7	248	6.5	6	2.4	7.4
925	693	802	599	24.1	30	15.6	20	248	6.5	6	2.4	8
900	932	1040	831	22.9	30	13.8	18.9	258	6.6	6.5	1.4	8.4
850	1428	1532	1333	20.1	28	11.2	16.3	270	6.5	6.5	0	8.9
800	1950	2047	1851	17	25.2	7	13.6	275	6.4	6.4	-0.6	9.1
750	2497	2597	2396	13.9	23	4.8	10.6	277	6	6	-0.7	8.6
700	3077	3178	2971	10.7	19.2	3	7.3	276	5.4	5.4	-0.6	7.9
650	3691	3794	3579	7.4	16	0.8	3.6	274	4.4	4.4	-0.3	7
600	4348	4463	4230	4.1	13.4	-2.3	-0.3	275	3.4	3.4	-0.3	6.4
550	5051	5182	4930	0.5	9.8	-6.5	-4.4	275	2.5	2.5	-0.2	5.8
500	5812	5962	5680	-3.4	5.8	-11.3	-9	278	1.4	1.4	-0.2	5.4
450	6637	6798	6505	-8	1.6	-16.1	-14.2	333	0.2	0.1	-0.2	4.8
400	7546	7762	7398	-13.3	-2.7	-22.9	-20.3	78	1.4	-1.4	-0.3	5
350	8549	8795	8362	-19.8	-11.5	-30.5	-27.4	83	3.3	-3.3	-0.4	5.7
300	9677	9962	9443	-27.8	-18.6	-38.3	-36.1	84	5.4	-5.4	-0.6	7.2
250	10961	11284	10679	-38	-28.5	-49.9	-46.2	79	8.5	-8.3	-1.6	10
200	12457	12834	12130	-50.3	-40.5	-62.1	-57.9	77	12.1	-11.8	-2.8	13.9
175	13316	13717	12971	-57.4	-47.1	-69.9	-63.4	75	14.6	-14.1	-3.9	16.5
150	14270	14669	13917	-65.4	-54.1	-77.1	-70.3	74	16.6	-15.9	-4.7	18.6
125	15357	15763	15035	-73.2	-57.5	-86.1		73	18.9	-18	-5.6	21.3
100	16640	17069	16240	-77.7	-61.9	-90.1		75	18.2	-17.6	-4.6	21.3
80	17934	18421	17461	-71.2	-53.5	-86.7		73	14.7	-14.1	-4.2	17.6
70	18735	19254	18250	-67	-49.7	-82.3		72	13.8	-13.1	-4.2	16.3
60	19465	20240	19103	-63.4	-46.1	-75.9		68	12.3	-11.4	-4.5	14.4
50	20802	21441	20213	-59.5	-42.5	-73.3		69	11.8	-11	-4.2	14.1
40	22216	22918	21614	-56.2	-33.5	-66.4		66	11.4	-10.4	-4.7	14.1
30	24048	24906	23442	-52.7	-34.7	-60.7		62	12	-10.6	-5.6	15.8
25	25226	26230	24620	-50.7	-31.1	-60.1		61	11.5	-10.1	-5.6	16.2
20	26656	27343	26025	-48.6	-31.3	-60.3		57	12.2	-10.3	-6.6	16.9
15	28551	29099	28068	-46.4	-33.5	-53.5		33	11.6	-6.3	-9.7	16.2
10	31197	31889	30694	-43.1	-36.2	-50.5		15	12.7	-3.2	-12.3	15.2
7	33669	34260	33334	-40.1	-35.5	-44.7		4	15.9	-1.1	-15.9	16.7

FREEZING LEVEL

P	Height	H_max	H_min
544	5151	6900	3830

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
103	16487	-79.8

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	998.3	1005	987	26.9	30	24	24.4	247	2.1	1.9	0.8	2.9
1000	52	92	-27	27	31.3	25	24.6	235	1.6	1.3	0.9	2.5
950	482	573	377	25.3	31.4	18	21.5	246	3.5	3.2	1.4	5.5
925	716	773	606	24.1	28.8	18.8	19.7	246	3.5	3.2	1.4	5.9
900	957	1020	842	22.8	30.4	16	18.4	255	3.1	3	0.8	5.8
850	1453	1527	1330	19.9	27.2	12.6	15.6	272	2.6	2.6	-0.1	6
800	1974	2046	1845	16.9	27	10.8	12.5	283	2.7	2.6	-0.6	6.3
750	2521	2595	2387	13.7	22.6	6.4	8.8	286	2.5	2.4	-0.7	6.1
700	3100	3185	2958	10.5	18.8	3.2	5.3	292	2.2	2	-0.8	5.9
650	3714	3811	3564	7.3	18.4	0.2	1.5	297	1.6	1.4	-0.7	5.5
600	4370	4491	4220	3.8	16	-3.7	-2.4	315	0.8	0.6	-0.6	5.2
550	5072	5213	4926	0.1	11.8	-6.3	-6.8	360	0.2	0	-0.2	5
500	5832	6004	5691	-4	7.4	-9.9	-11.8	76	0.8	-0.8	-0.2	4.9
450	6655	6801	6523	-8.7	1.6	-15.5	-16.9	94	1.5	-1.5	0.1	4.9
400	7561	7739	7424	-14	-4.7	-22.3	-23	90	2.4	-2.4	0	5
350	8562	8817	8411	-20.6	-12.9	-30.3	-29.8	92	3.4	-3.4	0.1	5.6
300	9685	9928	9489	-28.6	-19.9	-39.1	-37.3	93	4.4	-4.4	0.2	6.2
250	10964	11255	10709	-38.7	-29.1	-50.3	-46.8	87	6	-6	-0.3	7.8
200	12455	12794	12124	-51.1	-41.3	-62.1	-58.3	82	9.1	-9	-1.2	10.9
175	13310	13680	12935	-58.1	-46.9	-69.1	-66.1	80	10.9	-10.7	-1.8	12.7
150	14261	14670	13836	-66	-55.9	-79.3	-68.4	80	12.6	-12.4	-2.1	14.6
125	15344	15748	14868	-73.5	-60.7	-89		80	14.5	-14.3	-2.6	17
100	16620	17085	16096	-78	-62.5	-90.3		83	14	-13.9	-1.8	16.5
80	17916	18403	17345	-72.5	-57.5	-89.1		77	11	-10.7	-2.4	12.9
70	18714	19250	18095	-68.1	-55.7	-81.5		76	10	-9.7	-2.5	11.6
60	19517	20106	18980	-64.2	-52.7	-74.7		73	9.4	-9	-2.8	11.1
50	20770	21248	20050	-60.3	-45.5	-70.5		69	9.4	-8.8	-3.4	11.4
40	22175	22669	21390	-56.5	-39.5	-65.9		68	8.7	-8	-3.3	11
30	23999	24526	23151	-52.4	-32.7	-62.7		61	9.6	-8.4	-4.6	13
25	25185	25680	24277	-50.8	-39.7	-61.3		56	10.6	-8.8	-5.9	15.2
20	26623	27173	25668	-49.5	-36.5	-59.5		43	12	-8.2	-8.8	17.1
15	28517	29100	28104	-47.3	-37.9	-54.1		32	14.5	-7.7	-12.3	20.4
10	31154	31861	30743	-43.2	-37.7	-50.3		12	16	-3.3	-15.7	19.1
7	33536	34050	33235	-40.9	-35.2	-45.1		10	13.8	-2.5	-13.6	16.2

FREEZING LEVEL

P	Height	H_max	H_min
549	5093	6450	3930

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
104	16419	-80

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1002	1009	987	26	30	22.4	23	13	1.3	-0.3	-1.3	2.9
1000	73	127	-25	25.9	32.2	22.4	22.7	25	1.4	-0.6	-1.3	2.8
950	513	575	381	24.4	33.8	18	19.7	43	2.3	-1.6	-1.7	5.1
925	747	808	644	23	30.2	17.6	18.1	55	2.9	-2.4	-1.7	5.7
900	986	1050	857	21.7	29.4	15	16.2	57	3	-2.5	-1.6	5.6
850	1480	1551	1350	18.8	26	11.6	12.8	60	3.2	-2.8	-1.6	5.8
800	1998	2077	1868	15.8	23.2	6.6	9.3	63	2.9	-2.6	-1.3	5.7
750	2543	2640	2412	12.9	20.8	3.8	5.8	60	2.2	-1.9	-1.1	5.4
700	3120	3221	2993	10	17.4	3.3	2	60	1.4	-1.2	-0.7	5.1
650	3733	3844	3605	6.8	14.4	1	-1.4	72	0.9	-0.9	-0.3	4.9
600	4386	4508	4258	3.4	11.6	-3.5	-5.3	103	0.9	-0.9	0.2	4.8
550	5087	5220	4957	-0.3	8.6	-7.5	-9.5	108	0.9	-0.9	0.3	4.9
500	5844	5988	5702	-4.6	5.2	-11.4	-14.6	112	1.1	-1	0.4	5.1
450	6666	6840	6525	-9.4	-1.3	-16.3	-19.7	124	1.1	-0.9	0.6	5.2
400	7568	7768	7423	-14.9	-6.9	-22.3	-25.5	139	0.9	-0.6	0.7	5.2
350	8565	8786	8412	-21.6	-11.7	-27.9	-31.7	165	1.1	-0.3	1.1	5.4
300	9684	9920	9516	-29.6	-18.5	-39.5	-39.5	176	1.6	-0.1	1.6	5.8
250	10957	11218	10773	-39.8	-29.7	-49.7	-49.5	177	2.2	-0.1	2.2	6.7
200	12441	12754	12225	-51.9	-40.9	-62.3	-62.1	165	3	-0.8	2.9	8.2
175	13290	13644	13034	-58.8	-37.1	-73	-66	159	3.6	-1.3	3.4	9.3
150	14238	14635	13958	-66.5	-53	-84.9	-75.1	144	3.9	-2.3	3.2	9.8
125	15318	15725	15015	-73.7	-56.5	-86.5		126	4.2	-3.4	2.5	9.8
100	16596	17109	16314	-78.2	-65.7	-89.7		97	4.7	-4.7	0.6	8.6
80	17893	18414	17602	-72.3	-58.7	-83.1		84	5.1	-5.1	-0.5	7.6
70	18689	19290	18411	-68.2	-55.3	-81.7		84	5.4	-5.4	-0.6	7.5
60	19500	20258	19269	-64.1	-51.7	-77		76	5.8	-5.6	-1.4	7.6
50	20751	21438	20388	-60.4	-46.1	-70.5		69	6.8	-6.4	-2.4	8.5
40	22146	22895	21781	-56.8	-42.7	-68.1		70	8.9	-8.3	-3.1	10.8
30	23971	24449	23542	-52.8	-36.1	-65.1		66	9.5	-8.7	-3.9	12.3
25	25141	25647	24674	-51.1	-37.8	-63.3		61	10.5	-9.2	-5.1	13.8
20	26599	27124	26074	-48.9	-36.9	-61.3		60	10.7	-9.3	-5.3	15
15	28502	29008	27878	-46.2	-34.9	-58.1		46	9	-6.5	-6.2	14.4
10	31152	31722	30450	-43.2	-35.1	-54.9		37	7.7	-4.6	-6.2	12.5
7	33538	33925	33103	-41.6	-36.7	-46.1		73	11.7	-11.2	-3.4	15.2

FREEZING LEVEL

P	Height	H_max	H_min
555	5022	6700	3900

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
103	16440	-80

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1005.2	1011	989	24	28.4	19	19.4	27	3.3	-1.5	-2.9	3.7
1000	92	144	28	24.1	28.9	19	19.4	34	3.4	-1.9	-2.8	4
950	537	591	436	22.3	32.8	15.2	16	48	5.5	-4.1	-3.7	6.2
925	768	814	698	20.8	26.8	15.4	14.4	49	5.5	-4.1	-3.6	6.2
900	1006	1067	907	19.5	29.8	13.2	12.2	52	5.6	-4.4	-3.4	6.6
850	1496	1572	1400	16.8	28.6	10.2	8.3	53	4.9	-3.9	-2.9	6.3
800	2010	2079	1918	14.5	27.2	7.1	4.4	52	3.6	-2.8	-2.2	5.6
750	2553	2628	2459	12.3	23.8	4.6	1.2	47	2.5	-1.8	-1.7	5.1
700	3129	3209	3038	9.6	20.8	1.4	-1.8	33	1.7	-0.9	-1.4	4.9
650	3740	3864	3644	6.5	16	-0.5	-5	22	1.1	-0.4	-1	4.9
600	4393	4517	4290	3	11.6	-3.1	-9.1	344	0.7	0.2	-0.7	5
550	5091	5237	4957	-0.9	7	-12.1	-13	320	0.8	0.5	-0.6	5.2
500	5847	6009	5725	-5.3	3.2	-21.1	-17.7	287	1.4	1.3	-0.4	5.7
450	6665	6845	6523	-10.2	-2.5	-17.1	-22	275	2.3	2.3	-0.2	6.2
400	7564	7759	7393	-15.9	-6.5	-22.5	-27.7	264	3.7	3.7	0.4	7
350	8556	8770	8360	-22.7	-12.3	-30.7	-34.2	260	5.6	5.5	1	8.2
300	9669	9913	9434	-30.8	-18.5	-38.9	-41.9	251	7.3	6.9	2.4	9.5
250	10936	11175	10655	-40.9	-28.9	-50.7	-51.6	241	8.8	7.7	4.3	10.8
200	12414	12724	12159	-52.8	-40.1	-64.5	-62	231	9.9	7.7	6.2	11.9
175	13260	13611	12954	-59.7	-47.3	-75.5	-66.7	230	9.7	7.4	6.3	11.9
150	14205	14593	13938	-67	-53.7	-78.1		232	8.4	6.6	5.2	10.7
125	15282	15706	14976	-73.8	-44.8	-87.7		234	6.1	4.9	3.6	8.9
100	16558	17029	15900	-78.9	-64.3	-89.9		228	2.5	1.9	1.7	6.7
80	17845	18351	17423	-74.7	-56.5	-87.8		153	0.2	-0.1	0.2	5
70	18626	19150	18242	-70.8	-53.1	-83.9		90	0.6	-0.6	0	4.4
60	19468	20109	19203	-66.2	-48.3	-81.5		72	1.3	-1.2	-0.4	4.2
50	20669	21281	20333	-61.2	-48.3	-79.5		75	2.4	-2.3	-0.6	4.5
40	22065	22733	21757	-56.9	-40.5	-75.5		69	3.3	-3.1	-1.2	5.3
30	23886	24622	23472	-53.1	-39.3	-70.3		59	3.7	-3.2	-1.9	6
25	25049	25766	24576	-51.3	-35.3	-68.1		56	5.3	-4.4	-3	7.8
20	26478	27060	25935	-49.6	-37.3	-64.7		46	5.2	-3.7	-3.6	7.9
15	28347	28906	27711	-47.6	-36.5	-60.5		25	4.4	-1.9	-4	7
10	31005	31422	30707	-44.9	-39.5	-51.1		50	3.3	-2.5	-2.1	7.1
7	33327	33482	33075	-43.9	-39.5	-49.1		63	2.8	-2.5	-1.3	2.8

FREEZING LEVEL

P	Height	H_max	H_min
562	4930	6390	3000

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16560	-80.3

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	1007.6	1013	1000	21.8	27.6	17.8	17.1	32	2.6	-1.4	-2.2	3.1
1000	109	163	26	22	28	18.2	16.9	35	2.9	-1.7	-2.4	3.5
950	553	607	464	20.4	29.8	14.6	14.1	53	4.4	-3.5	-2.6	5
925	781	836	693	18.8	25.4	12.8	11.8	51	4.3	-3.3	-2.7	4.9
900	1019	1089	929	17.7	28	10.6	9.9	54	4.3	-3.5	-2.5	5
850	1505	1595	1416	15.4	25	6.6	4.9	51	3.6	-2.8	-2.3	4.9
800	2018	2128	1927	13.8	23.2	6.8	-0.8	44	2.8	-1.9	-2	4.9
750	2559	2690	2457	11.9	22	4.2	-4.6	24	2	-0.8	-1.8	4.9
700	3133	3285	3012	9.3	18.6	1.8	-7.8	353	1.6	0.2	-1.6	5.1
650	3743	3913	3616	6.2	14.4	-2.1	-11.2	319	1.8	1.2	-1.4	5.6
600	4394	4580	4262	2.6	12	-6.1	-14.6	296	2.5	2.3	-1.1	6.3
550	5091	5297	4955	-1.4	11.8	-11.3	-17.7	283	3.6	3.5	-0.8	7.1
500	5844	6068	5727	-6	4.6	-17.9	-21	276	4.8	4.8	-0.5	8.2
450	6659	6903	6544	-11.2	-2.5	-22.3	-25.3	270	6.5	6.5	0	9.8
400	7553	7815	7399	-17.1	-7.3	-31.3	-30.7	266	8.4	8.4	0.6	11.5
350	8541	8822	8370	-23.9	-14.9	-33.7	-36.7	264	10.7	10.6	1.2	13.6
300	9649	9947	9434	-31.9	-21.9	-42.7	-43.8	258	12.9	12.6	2.6	15.8
250	10910	11231	10647	-41.6	-29.3	-56.1	-53.1	250	15.2	14.3	5.1	17.9
200	12384	12742	12067	-53.1	-40.8	-62.1	-63.9	244	16.4	14.8	7.1	18.9
175	13232	13618	12930	-59.5	-46.7	-69.3	-62	243	16.1	14.3	7.4	18.5
150	14179	14598	13862	-66.6	-53.1	-79.9	-75.6	243	14	12.5	6.3	16.2
125	15266	15713	14955	-73.1	-61.1	-89.5		246	10.3	9.4	4.1	12.8
100	16547	17008	16119	-78.4	-64.3	-89.5		253	5.8	5.5	1.7	9.2
80	17819	18296	17200	-75.9	-55.8	-87.5		249	1.9	1.8	0.7	6.7
70	18592	19150	17300	-72.6	-49.1	-85.4		253	1	1	0.3	5.3
60	19470	20048	19043	-68.4	-41.6	-81.1		248	0.5	0.5	0.2	4.7
50	20628	21238	20137	-63.3	-43.1	-80.5		11	0.5	-0.1	-0.5	4.4
40	22014	22722	21532	-58.9	-38.4	-69.9		62	1.7	-1.5	-0.8	4.6
30	23834	24633	23394	-54.6	-40.5	-65.1		47	1.9	-1.4	-1.3	5.2
25	25005	25830	24522	-52.9	-40.6	-62.3		34	2.2	-1.2	-1.8	5.6
20	26437	27282	26072	-50.4	-37.3	-58.1		30	2.4	-1.2	-2.1	5.6
15	28357	29169	27891	-47.9	-38.1	-55.5		360	3.4	0	-3.4	5.6
10	31123	31977	30497	-44	-34.1	-51.8		342	2.2	0.7	-2.1	3.8
7	33303	34182	32826	-43	-39.5	-48.1		163	1.4	-0.4	1.3	3.9

FREEZING LEVEL

P	Height	H_max	H_min
573	4842	6300	3380

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
99	16627	-80.1