



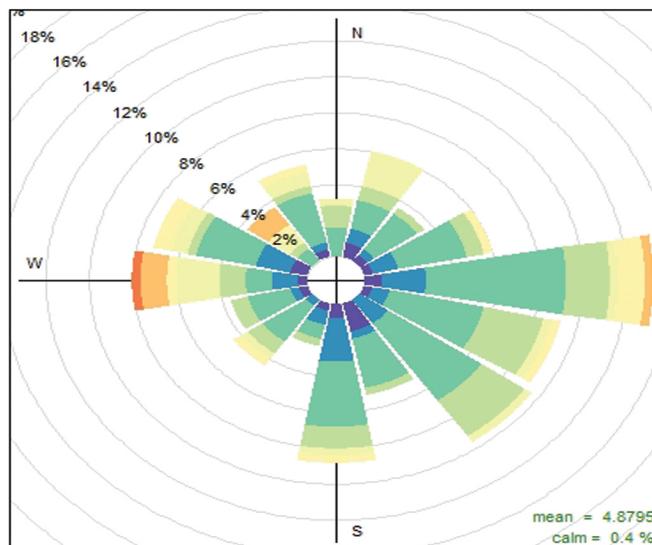
भारत सरकार / GOVERNMENT OF INDIA

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)



रांची
RANCHI

सितम्बर २०२०

SEPTEMBER 2020



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)

रांची
RANCHI

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

सितम्बर २०२०
SEPTEMBER 2020

PREFACE

India Meteorological Department (IMD), Ministry of Earth Sciences, brings out publications on varied meteorological topics. Normals of Radiosonde and Radiowind data has been published by the Climate Data Management and Services Group (CDMS), Office of Climate Research and Services (C R & S), IMD Pune since 1979. Four such publications have been published till date. The present publication ‘Monthly Normals of Radiosonde and Radiowind (1981-2010) and Monthly Upper Air Windrose Diagrams (2000-2015)’ is prepared using 0000 UTC (0530 IST) observation data from 35 Radiosonde and Radiowind (RS/RW) Upper Air stations for the period 1981-2010 and wind profile data of 34 RS/RW stations for the period 2000-2015 at eight different levels (1000, 925, 850, 700, 500, 300, 200, 100 hPa). The wind rose diagrams are prepared using R software after processing the RS/RW data by applying various quality checks. The present publication provides the climatology of different meteorological parameters at various levels over the station **Ranchi** (Latitude $23^{\circ}26'N$, Longitude $85^{\circ}24'E$).

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

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

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

Pune

September 2020

Dr. D. S. Pai

Head C R & S

Table of content

SN	Items	Page number
1	Windrose diagram and table for level of 1000 hpa and 925 hpa for January	<u>1</u>
2	Windrose diagram and table for level of 850 hpa and 700 hpa for January	<u>2</u>
3	Windrose diagram and table for level of 500 hpa and 300 hpa for January	<u>3</u>
4	Windrose diagram and table for level of 200 hpa and 100 hpa for January	<u>4</u>
5	Windrose diagram and table for level of 1000 hpa and 925 hpa for February	<u>5</u>
6	Windrose diagram and table for level of 850 hpa and 700 hpa for February	<u>6</u>
7	Windrose diagram and table for level of 500 hpa and 300 hpa for February	<u>7</u>
8	Windrose diagram and table for level of 200 hpa and 100 hpa for February	<u>8</u>
9	Windrose diagram and table for level of 1000 hpa and 925 hpa for March	<u>9</u>
10	Windrose diagram and table for level of 850 hpa and 700 hpa for March	<u>10</u>
11	Windrose diagram and table for level of 500 hpa and 300 hpa for March	<u>11</u>
12	Windrose diagram and table for level of 200 hpa and 100 hpa for March	<u>12</u>
13	Windrose diagram and table for level of 1000 hpa and 925 hpa for April	<u>13</u>
14	Windrose diagram and table for level of 850 hpa and 700 hpa for April	<u>14</u>
15	Windrose diagram and table for level of 500 hpa and 300 hpa for April	<u>15</u>
16	Windrose diagram and table for level of 200 hpa and 100 hpa for April	<u>16</u>
17	Windrose diagram and table for level of 1000 hpa and 925 hpa for May	<u>17</u>
18	Windrose diagram and table for level of 850 hpa and 700 hpa for May	<u>18</u>
19	Windrose diagram and table for level of 500 hpa and 300 hpa for May	<u>19</u>
20	Windrose diagram and table for level of 200 hpa and 100 hpa for May	<u>20</u>
21	Windrose diagram and table for level of 1000 hpa and 925 hpa for June	<u>21</u>
22	Windrose diagram and table for level of 850 hpa and 700 hpa for June	<u>22</u>
23	Windrose diagram and table for level of 500 hpa and 300 hpa for June	<u>23</u>
24	Windrose diagram and table for level of 200 hpa and 100 hpa for June	<u>24</u>

SN	Items	Page number
25	Windrose diagram and table for level of 1000 hpa and 925 hpa for July	25
26	Windrose diagram and table for level of 850 hpa and 700 hpa for July	26
27	Windrose diagram and table for level of 500 hpa and 300 hpa for July	27
28	Windrose diagram and table for level of 200 hpa and 100 hpa for July	28
29	Windrose diagram and table for level of 1000 hpa and 925 hpa for August	29
30	Windrose diagram and table for level of 850 hpa and 700 hpa for August	30
31	Windrose diagram and table for level of 500 hpa and 300 hpa for August	31
32	Windrose diagram and table for level of 200 hpa and 100 hpa for August	32
33	Windrose diagram and table for level of 1000 hpa and 925 hpa for September	33
34	Windrose diagram and table for level of 850 hpa and 700 hpa for September	34
35	Windrose diagram and table for level of 500 hpa and 300 hpa for September	35
36	Windrose diagram and table for level of 200 hpa and 100 hpa for September	36
37	Windrose diagram and table for level of 1000 hpa and 925 hpa for October	37
38	Windrose diagram and table for level of 850 hpa and 700 hpa for October	38
39	Windrose diagram and table for level of 500 hpa and 300 hpa for October	39
40	Windrose diagram and table for level of 200 hpa and 100 hpa for October	40
41	Windrose diagram and table for level of 1000 hpa and 925 hpa for November	41
42	Windrose diagram and table for level of 850 hpa and 700 hpa for November	42
43	Windrose diagram and table for level of 500 hpa and 300 hpa for November	43
44	Windrose diagram and table for level of 200 hpa and 100 hpa for November	44
45	Windrose diagram and table for level of 1000 hpa and 925 hpa for December	45
46	Windrose diagram and table for level of 850 hpa and 700 hpa for December	46
47	Windrose diagram and table for level of 500 hpa and 300 hpa for December	47
48	Windrose diagram and table for level of 200 hpa and 100 hpa for December	48

SN	Items	Page number
49	Monthly normals for the month January	49
50	Monthly normals for the month February	50
51	Monthly normals for the month March	51
52	Monthly normals for the month April	52
53	Monthly normals for the month May	53
54	Monthly normals for the month June	54
55	Monthly normals for the month July	55
56	Monthly normals for the month August	56
57	Monthly normals for the month September	57
58	Monthly normals for the month October	58
59	Monthly normals for the month November	59
60	Monthly normals for the month December	60

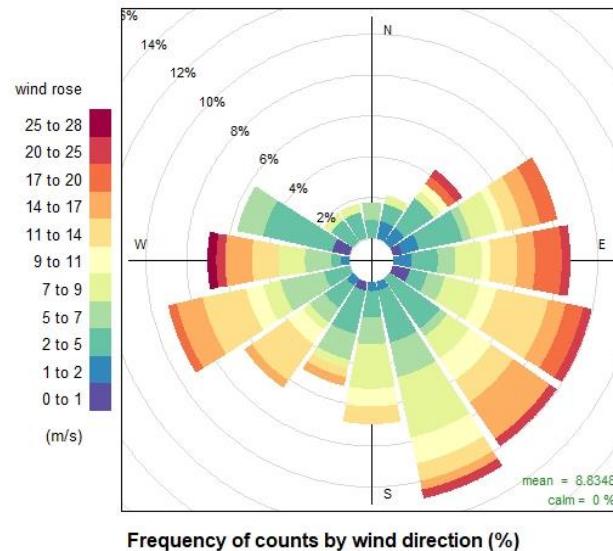
Description of various terms used in the table (Normals of Radiosonde data)

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.

Ranchi

January

1000 hPa level

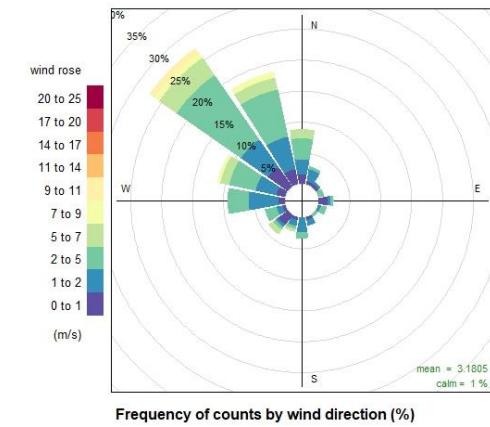
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

January

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1.5	2.4	3.4	1.5	0	0	0	0	0	0	0
12-33		0.5	2	0.5	0	0	0	0	0	0	0	0
34-56		0.5	0.5	0	0	0	0	0	0	0	0	0
57-78		0	0	1	0	0	0	0	0	0	0	0
79-101		1.5	0.5	0.5	0	0	0	0	0	0	0	0
102-123		0	0.5	1	0	0	0	0	0	0	0	0
124-146		0	0	0.5	0	0	0	0	0	0	0	0
147-168		0.5	1	0	0	0	0	0	0	0	0	0
168-191		0	2.4	1	0	0	0	0	0	0	0	0
192-213		0.5	1	0.5	0.5	0	0	0	0	0	0	0
214-236		2	0.5	0.5	1	0	0	0	0	0	0	0
237-258		0.5	1	2	0	0	0	0	0	0	0	0
259-281		1	4.9	3.4	0	0	0	0	0	0	0	0
282-303		1.5	3.4	4.4	1.5	0.5	0	0	0	0	0	0
304-326		3.9	5.4	12.7	3.4	1	1	0	0	0	0	0
327-348		2.4	5.4	7.8	2	1	0	0	0	0	0	0

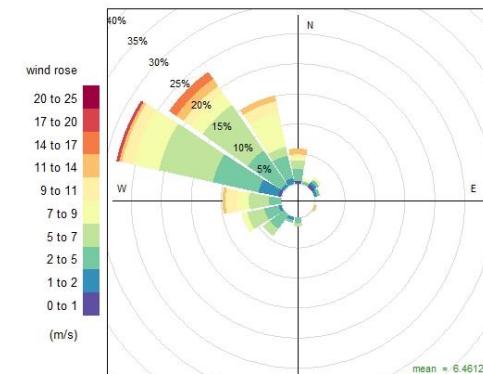


Ranchi

January

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.5	0	1.9	1.5	0.5	0.5	1	0	0	0	0
12-33		0	0	0.5	0	0.5	0	0	0	0	0	0
34-56		0.5	0.5	0.5	0	0	0.5	0	0	0	0	0
57-78		0	0.5	0.5	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	0.5	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	1	0.5	0	0	0	0	0	0	0
192-213		0	0.5	0.5	0	0	0	0	0	0	0	0
214-236		0	0	2.9	1.5	0	0	0	0	0	0	0
237-258		0	0.5	2.4	2.9	1	0	0	0	0	0	0
259-281		0	0	1.9	3.4	1.9	1.9	0.5	0	0	0	0
282-303		0.5	3.4	7.8	9.2	4.4	1.9	0.5	0	0.5	0	0
304-326		0	0.5	6.8	9.2	2.4	1.5	1.5	1.5	0	0	0
327-348		0	1	3.9	1.5	5.8	1.9	1	0	0	0	0

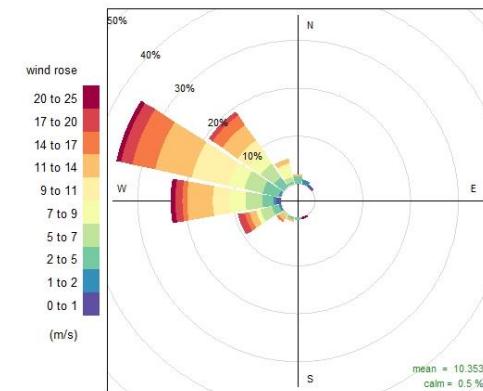


Ranchi

January

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	1.5	0	0	0	0.5	0	0	0	0
12-33		0	1	0	0	0	0	0	0	0	0	0
34-56		0.5	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	0.5	0
168-191		0	0	0.5	0	0	0	0	0	0	0	0
192-213		0	0	0.5	0	0	0	0.5	0	0	0	0
214-236		0	0	0.5	0	0	1	0.5	0	0	0	0
237-258		0	0.5	1.5	2.5	1	0	1.5	1	1.5	0	0
259-281		1	0.5	2.5	3.4	3.4	3.4	5.4	1	1.5	1	0
282-303		0	0.5	3.4	3.9	3.4	7.8	7.8	4.9	2.5	1	0
304-326		0	0	2.5	3.4	2.9	2.9	3.9	2.5	1	0	0
327-348		0	0	0.5	1	2.5	0.5	1	0	0	0	0

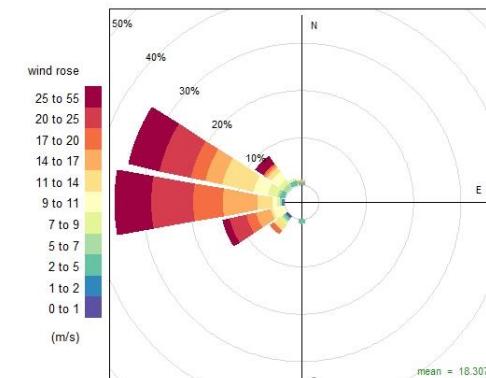


Ranchi

January

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0.5	0	0	0	0	0.5	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	1	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0.5	0	0.5	0.5	0.5	0	1.6	0	1	0	0
237-258		0	0	0	0	0	2.6	0.5	3.1	2.1	3.6	1.6
259-281		0	0.5	0	0.5	0.5	1	3.1	7.3	6.2	8.9	7.8
282-303		0	0	1	0.5	2.1	3.1	6.8	3.6	3.1	6.8	6.8
304-326		0	0	0	1	1	2.1	1	0.5	0.5	0	2.1
327-348		0	0	1	0	0.5	0	0	0	0	0	0

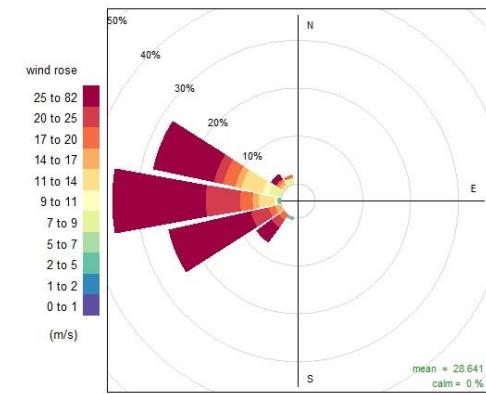


Ranchi

January

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0.7	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	1.3	2	3.9
237-258		0	0	0	0	0	0	0	1.3	1.3	3.9	17.6
259-281		0	0	0.7	0	0	0.7	3.3	1.3	2.6	7.2	19.6
282-303		0	0	0	2.6	1.3	4.6	1.3	2.6	2	13.1	
304-326		0	0	0	0	1.3	0	0	0.7	0.7	0	1.3
327-348		0	0	0	0	0	0	0	0.7	0	0	0

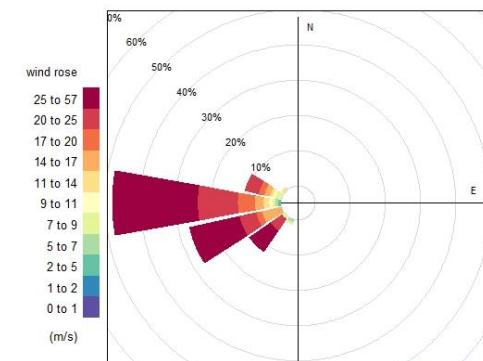


Ranchi

January

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0.8	0.8	0	0	0	0	0	0
214-236		0	0	0	0.8	0	0	0	0	0	4.1	7.3
237-258		0	0	0	0	0	0	5.7	1.6	4.9	14.6	
259-281		0	0	0.8	0.8	0.8	0.8	1.6	2.4	4.9	11.4	24.4
282-303		0	0	0	1.6	0.8	0.8	1.6	1.6	4.1	0	
304-326		0	0	0	0	0	0.8	0	0	0	0	
327-348		0	0	0	0	0	0	0	0	0	0	

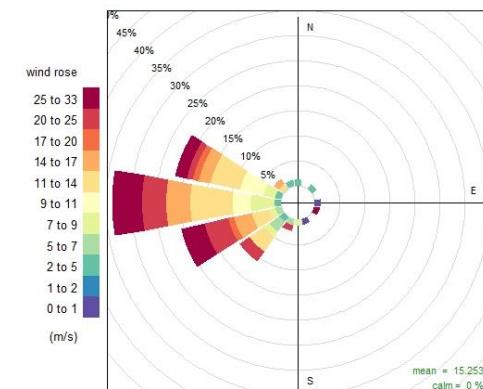


Ranchi

January

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	1.2	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	1.2	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		1.2	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	1.2
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		1.2	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	1.2	0	0	0	0	0	0	0
192-213		0	0	0	1.2	0	0	0	0	0	1.2	0
214-236		0	0	1.2	2.4	1.2	0	3.6	0	0	2.4	0
237-258		0	0	0	1.2	1.2	0	3.6	3.6	1.2	4.8	4.8
259-281		0	0	1.2	0	4.8	3.6	8.4	4.8	0	4.8	6
282-303		0	0	1.2	0	2.4	4.8	6	2.4	1.2	1.2	2.4
304-326		0	0	0	0	0	1.2	1.2	1.2	0	0	0
327-348		0	0	1.2	0	0	0	0	0	0	0	0



Ranchi

February

1000 hPa level

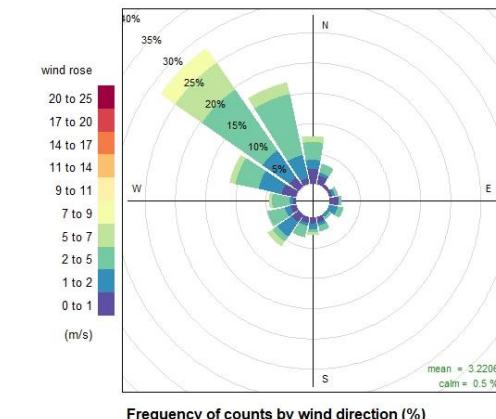
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

February

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		2.5	1.5	2.9	1	0	0	0	0	0	0	0
12-33		1.5	0.5	1.5	0	0	0	0	0	0	0	0
34-56		0.5	0	0	0	0	0	0	0	0	0	0
57-78		0.5	0.5	0.5	0	0	0	0	0	0	0	0
79-101		1.5	0	0.5	0	0	0	0	0	0	0	0
102-123		0	1.5	1	0	0	0	0	0	0	0	0
124-146		0	0.5	0.5	0	0	0	0	0	0	0	0
147-168		1	0.5	1	0	0	0	0	0	0	0	0
168-191		1	1	0.5	0.5	0	0	0	0	0	0	0
192-213		1	0.5	2	0	0	0	0	0	0	0	0
214-236		1.5	2.9	1	1	0	0	0	0	0	0	0
237-258		1	1	2.9	0	0	0	0	0	0	0	0
259-281		0.5	0.5	2.9	0.5	0	0	0	0	0	0	0
282-303		2.5	3.9	3.9	1	0	0	0	0	0	0	0
304-326		2	5.4	12.3	5.4	2.9	0	0	0	0	0	0
327-348		1	3.9	10.3	2	0	0	0	0	0	0	0

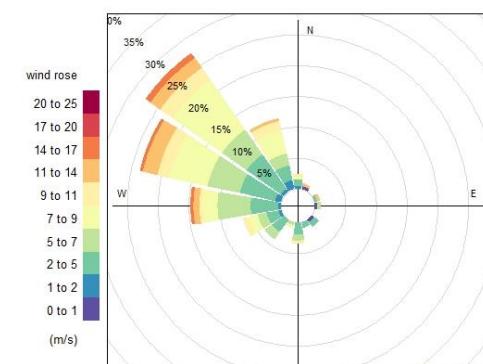


Ranchi

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	0.5	1	0	0.5	0.5	0	0	0	0	0
12-33		0.5	0	0	0	0	0	0.5	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0.5	0	0	0	0.5	0	0	0	0
79-101		0.5	0	0	0.5	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0.5	0	1	0	0	0	0	0	0	0	0
147-168		0	0	1	0	0	0	0	0	0	0	0
168-191		0	0	2	1	0	0.5	0	0	0	0	0
192-213		0	0	0	0.5	0.5	0	0	0	0	0	0
214-236		0	0	2.5	1.5	0	0	0	0	0	0	0
237-258		0	0.5	2	1.5	1.5	1	0	0	0	0	0
259-281		0	0.5	4.4	5.4	2.5	0.5	1	0.5	0	0	0
282-303		0	1	5.9	5.4	6.4	2	2.5	0.5	0	0	0
304-326		0	0.5	6.9	4.9	9.8	2.5	2	1	0	0	0
327-348		0	1.5	2.5	2	3.9	1.5	0.5	0	0	0	0

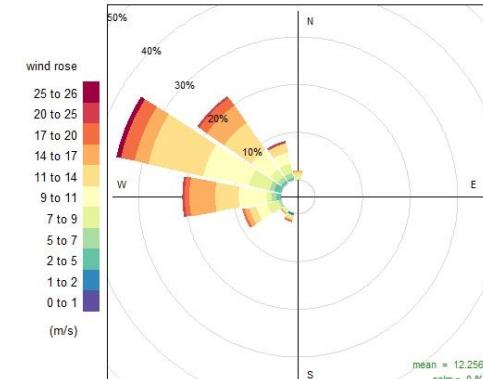


Ranchi

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	0	1	0	0.5	0.5	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0.5	0	0	0.5	0	0.5	0	0.5	0	0
214-236		0	0	0	0.5	0.5	0	0	0.5	0	0	0
237-258		0	0	0	0.5	2.5	2.5	1.5	1	0.5	0	0
259-281		0	0	1	1	1	5.9	4.9	5.4	1	0.5	0
282-303		0	0	1.5	1	4.4	9.9	11.8	3	3	0	1
304-326		0	0	0.5	1	2	4.9	6.9	4.4	2	0.5	0
327-348		0	0	0.5	1	2	2.5	2	0	0	0.5	0

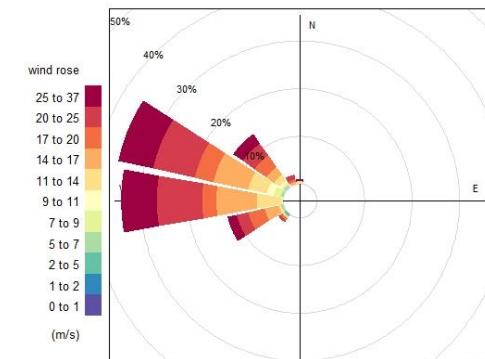


Ranchi

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	0	0	0.5	0	0	0	0.5
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0.5	0	0	0	0.5	0	0.5	0.5	0
237-258		0	0	0	0.5	0	0	0.5	3	3.5	2.5	2
259-281		0	0	0	0.5	0	5	8.5	3	9.5	7.5	
282-303		0	0	0	0.5	1.5	1.5	4	7.5	4	9	7.5
304-326		0	0	0	0.5	0.5	0.5	1.5	2	3	3	2.5
327-348		0	0	0	0	0	0	0	0.5	0.5	1	0

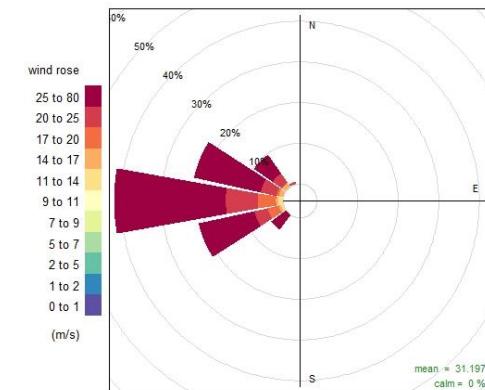


Ranchi

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
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	4.5
237-258		0	0	0	0	0	0.6	0.6	2.8	3.4	14	
259-281		0	0	0	0	0	1.1	0.6	4.5	7.9	27.5	
282-303		0	0	0	0	0	0	1.1	0.6	3.9	16.9	
304-326		0	0	0	0	0	0	1.1	0	2.8	5.6	
327-348		0	0	0	0	0	0	0	0	0.6	0	

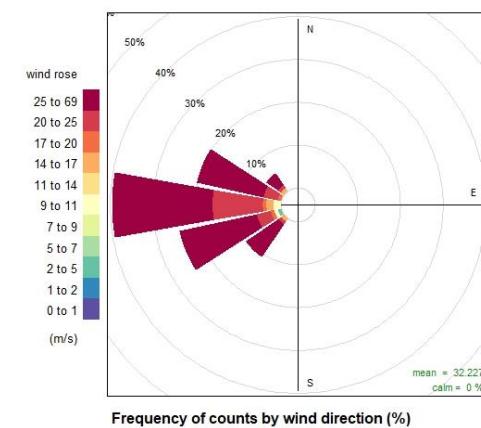


Ranchi

February

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0.8	0	0.8	9.2	
237-258		0	0	0.8	0	0	0.8	0	0	0.8	3.4	18.5
259-281		0	0	0	0	1.7	0	1.7	0.8	0.8	11.8	23.5
282-303		0	0	0	0	0	0	0	0.8	0.8	3.4	16
304-326		0	0	0	0	0	0	0.8	0	0.8	0.8	3.4
327-348		0	0	0	0	0	0	0	0	0	0	0

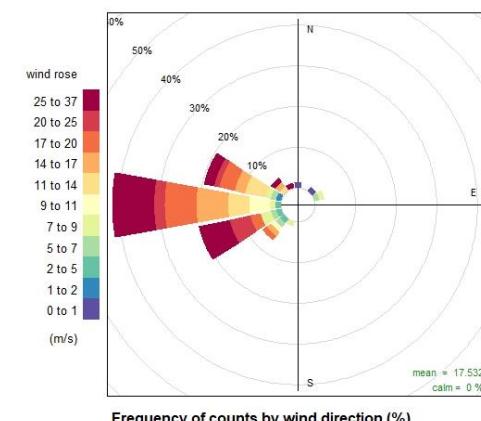


Ranchi

February

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1.3	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		1.3	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	1.3	1.3	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	1.3	0	0	0	0	0	0	0
214-236		0	0	1.3	1.3	0	1.3	0	1.3	1.3	0	0
237-258		0	0	1.3	1.3	2.6	0	0	0	2.6	5.2	7.8
259-281		0	0	1.3	0	1.3	5.2	5.2	7.8	7.8	2.6	10.4
282-303		0	1.3	0	1.3	1.3	0	5.2	2.6	3.9	1.3	2.6
304-326		0	0	0	0	0	0	1.3	1.3	0	0	1.3
327-348		0	0	0	0	0	0	0	0	0	0	1.3



Ranchi

March

1000 hPa level

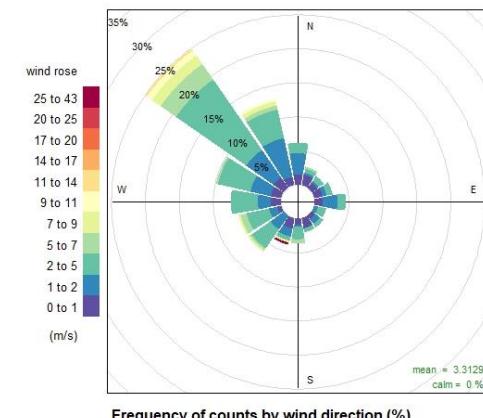
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

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	1.5	3.1	1.5	0	0	0	0	0	0	0	0
12-33	0	1.5	0.3	0.6	0.3	0	0	0	0	0	0	0
34-56	0	0.9	0.3	0.9	0	0	0	0	0	0	0	0
57-78	0	1.2	0.6	0.9	0	0	0	0	0	0	0	0
79-101	0	1.2	2.1	1.2	0	0	0	0	0	0	0	0
102-123	0	0	0.6	1.2	0	0	0	0	0	0	0	0
124-146	0	0.6	0.9	0.6	0	0	0	0	0	0	0	0
147-168	0	1.5	0	0.6	0	0	0	0	0	0	0	0
168-191	0	0.9	0.3	1.8	0.6	0	0	0	0	0	0	0
192-213	0	1.5	1.2	0.6	0	0.3	0	0	0	0	0.3	0
214-236	0	0	2.5	3.4	0.3	0.3	0	0	0	0	0	0
237-258	0	0.6	1.2	3.4	0.9	0.3	0	0	0	0	0	0
259-281	0	1.5	1.8	4	0	0	0	0	0	0	0	0
282-303	0	1.5	3.1	4.9	0.3	0	0	0	0	0	0	0
304-326	0	1.8	4.9	12.6	2.8	1.5	0.9	0.3	0	0	0	0
327-348	0	1.2	5.8	4.3	0.6	0.6	0.3	0	0	0	0	0

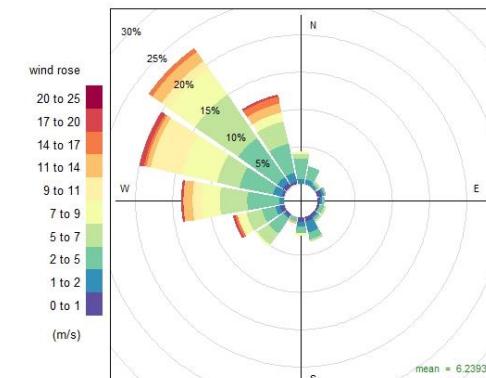


Ranchi

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	0.6	2.8	0.6	0.3	0	0	0	0	0	0
12-33		0	0.6	1.8	0	0	0	0	0	0	0	0
34-56		0	0.3	0.3	0.3	0	0	0	0	0	0	0
57-78		0.6	0.3	0.3	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		0.3	0	0.6	0.3	0	0	0	0	0	0	0
124-146		0.3	0.3	0.3	0.3	0	0	0	0	0	0	0
147-168		0.6	1.5	0.9	0.3	0	0	0	0	0	0	0
168-191		0.6	0.6	0.9	0	0.3	0	0	0	0	0	0
192-213		0	0	0.6	0	0	0	0.3	0	0	0	0
214-236		0.3	0.3	2.5	1.8	0.3	0	0	0	0	0	0
237-258		0.6	0.6	1.8	2.1	0.9	0.3	0	0.3	0.3	0	0
259-281		0	0.6	4.3	3.7	2.5	1.2	1.2	0	0.3	0	0
282-303		0.3	1.2	4.6	3.1	4.9	4.3	0.6	0.3	0.6	0	0
304-326		0.6	0.9	6.4	7.1	4.3	1.2	1.5	0.6	0	0	0
327-348		0.3	1.2	4	3.1	1.2	0	1.2	0.9	0.3	0	0

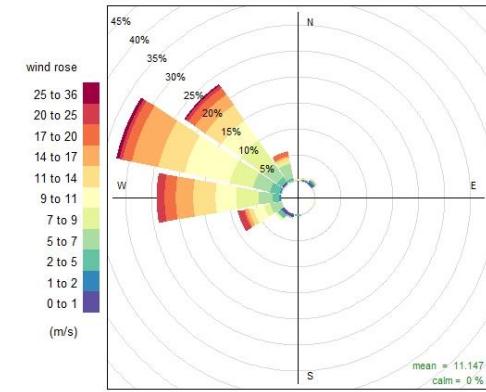


Ranchi

March

700 hPa level

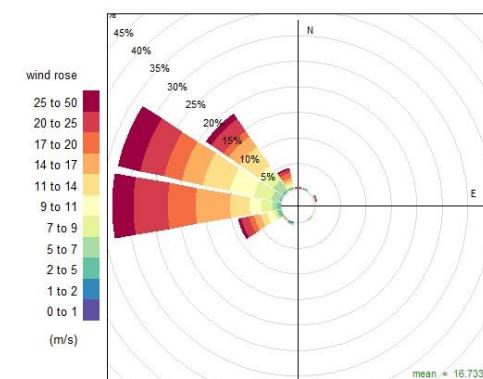
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0.3	0	0	0	0	0	0
12-33		0	0.3	0	0	0	0	0.3	0	0	0	0
34-56		0.3	0.3	0.3	0	0	0	0.3	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0.3	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0.3	0	0	0	0	0	0	0	0
192-213		0.6	0	0.3	0	0	0	0	0	0	0	0
214-236		0.6	0	0.9	0	0.3	0.3	0	0	0	0	0
237-258		0	0	0	2.1	1.2	2.1	0.9	0.6	0.3	1.2	0
259-281		0	0.3	1.2	2.8	4.3	4	4.3	3.4	2.1	1.5	0
282-303		0	0.3	1.8	3.4	4.6	8.9	5.2	5.2	1.8	0.6	0.6
304-326		0.3	0	1.2	3.1	5.5	4.6	3.7	2.5	1.5	0.6	0.3
327-348		0	0	0.6	2.8	0.6	0	0.6	0.3	0.9	0	0



Ranchi

March 500 hPa level

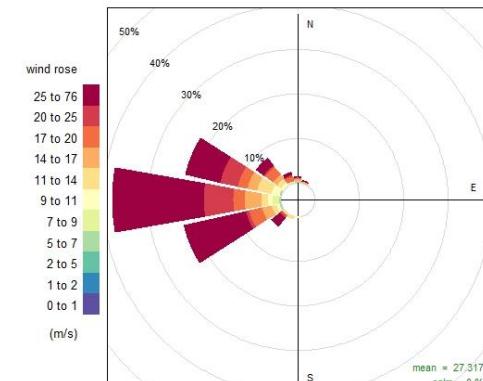
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0.3	0
12-33		0	0	0.3	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0.3	0	0	0	0	0	0.3	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0.3	0	0	0	0	0	0	0
147-168		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	0.3	0	0.3	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0.3	0	0	0	0
237-258		0	0	0.6	0.3	0.6	1.3	1.3	1.3	1	1.6	0.6
259-281		0	0	0.6	1	2.3	2.3	3.9	6.8	5.5	6.8	4.2
282-303		0	0	0.3	1.6	3.5	4.8	5.5	4.2	3.5	4.8	4.5
304-326		0	0	0.3	2.3	2.3	1.3	4.5	2.6	1.3	2.9	1.3
327-348		0	0	0.3	0	0.3	0.3	0.6	0.6	1	0.6	0.3



Ranchi

March 300 hPa level

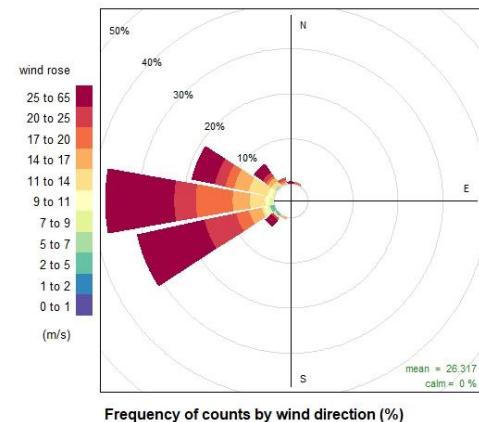
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0.4	0	0	0	0.4	0.4	0	0.4
12-33		0	0	0	0	0	0	0	0.4	0	0	0.4
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0.4	0	0	0	0	0	0
192-213		0	0	0	0	0	0.7	0	0	0	0	0
214-236		0	0	0	0	0	0.4	0.4	0	0.4	0.4	2.6
237-258		0	0	0.4	0	0.7	1.1	2.2	3	0.7	14.4	
259-281		0	0	0.4	1.5	1.1	1.5	3.7	2.6	6.6	20.7	
282-303		0	0	0.4	0	1.8	3.3	2.2	2.2	4.1	8.1	
304-326		0	0	0	0	0.7	1.1	1.1	2.2	0.4	2.2	
327-348		0	0	0	0.4	0	0	0	1.1	0.4	0.7	



Ranchi

March 200 hPa level

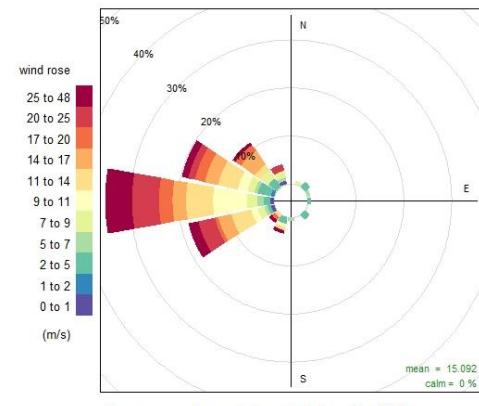
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0.5
12-33		0	0	0	0	0	0	0	0.5	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0.5	0	0	0	0
214-236		0	0	0.5	0	0	0	0.5	0	0	0.5	1.9
237-258		0	0	1	0	0.5	1	0.5	2.9	2.9	7.2	15.4
259-281		0	0	0	1	1	3.4	3.8	8.2	4.8	4.8	15.4
282-303		0	0	0	0.5	1	4.3	3.4	1.9	2.4	2.4	5.3
304-326		0	0	0	0.5	0	0	1	1	0.5	1	2.4
327-348		0	0	0	0	0	0	0	0.5	0.5	0.5	0



Ranchi

March 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0.7	0	0	0	0	0	0
34-56		0	0	1.4	0	0	0	0	0	0	0	0
57-78		0	0	0	0.7	0	0	0	0	0	0	0
79-101		0	0	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	0	1.4	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	0.7	0	0	0	0	0	0	0	0
192-213		0	0	1.4	0	0	0.7	0.7	0	0	0	0.7
214-236		0	0	0	0	0	0.7	0	0.7	0	0	0.7
237-258		0.7	0	0.7	0.7	1.4	1.4	4.2	2.8	0.7	3.5	2.1
259-281		0.7	0	1.4	1.4	2.1	7	5.6	2.8	2.8	5.6	5.6
282-303		0	0.7	2.8	0.7	1.4	2.1	4.2	2.8	2.1	1.4	1.4
304-326		0	0	2.1	0	2.1	0	1.4	3.5	1.4	0	0.7
327-348		0.7	0	0	0.7	1.4	0	0	0	0	1.4	0



Ranchi

April

1000 hPa level

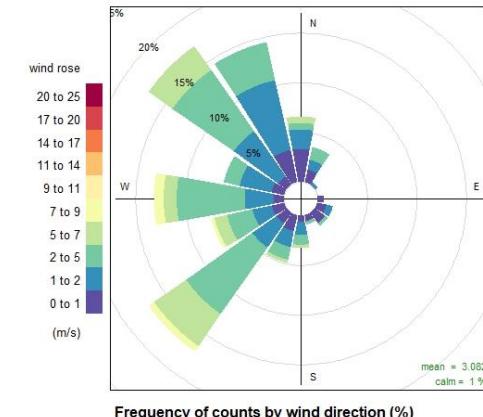
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

April

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		3	2	0.7	0.7	0	0	0	0	0	0	0
12-33		1.3	1	1.3	0	0	0	0	0	0	0	0
34-56		0	0.3	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0.7	0	0	0	0	0	0	0	0	0	0
102-123		1	0.7	0	0	0	0	0	0	0	0	0
124-146		1.3	0	0.3	0	0	0	0	0	0	0	0
147-168		0.7	0	0.3	0	0	0	0	0	0	0	0
168-191		0.7	1.3	1	0.3	0	0	0	0	0	0	0
192-213		1.6	1.6	1.3	0.3	0	0	0	0	0	0	0
214-236		1.3	3	8.2	3.9	0.7	0	0	0	0	0	0
237-258		1.3	2	2.6	1.3	0.3	0	0	0	0	0	0
259-281		1	3	6.9	1.3	1	0	0	0	0	0	0
282-303		1.3	3.3	1.6	0	0	0	0	0	0	0	0
304-326		1	5.6	7.5	3	0	0	0	0	0	0	0
327-348		3.3	7.2	3.9	0	0	0	0	0	0	0	0

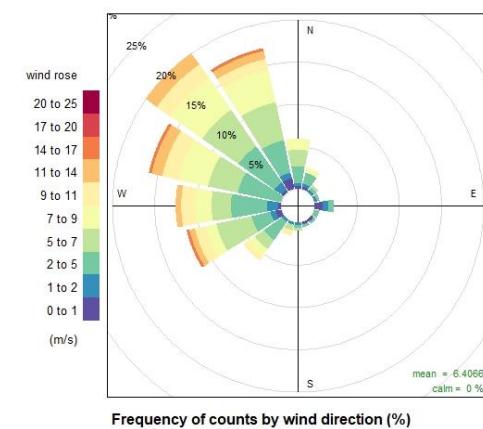


Ranchi

April

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.3	0.3	2	2	1.3	0	0	0	0	0	0
12-33		0.3	0.3	1.3	0	0.7	0	0	0	0	0	0
34-56		0	0.3	0.3	0.3	0	0	0	0	0	0	0
57-78		0	0.3	0.3	0	0	0	0	0	0	0	0
79-101		1	0.7	0.7	0	0	0	0	0	0	0	0
102-123		0	0	0.7	0	0	0	0	0	0	0	0
124-146		0.3	0	0.3	0	0	0	0	0	0	0	0
147-168		0.3	0	0.3	0	0	0	0	0	0	0	0
168-191		0	0.3	0.3	0.3	0	0	0	0	0	0	0
192-213		0	0.3	0	0.7	0	0.7	0	0	0	0	0
214-236		0	0.3	2.6	1.3	1	0.7	0	0	0	0	0
237-258		0.7	0.7	2.3	4.3	1.3	1.3	0.7	0.3	0	0	0
259-281		0.3	1.3	4.3	2.3	2	1.6	0.7	0	0	0	0
282-303		0	0	5.2	3.6	3.6	2	1.3	0.3	0	0	0
304-326		0.3	1	5.2	5.2	4.6	2	1.6	0	0	0	0
327-348		1.3	0.7	3.9	4.6	3.9	1.3	1	0.3	0	0	0

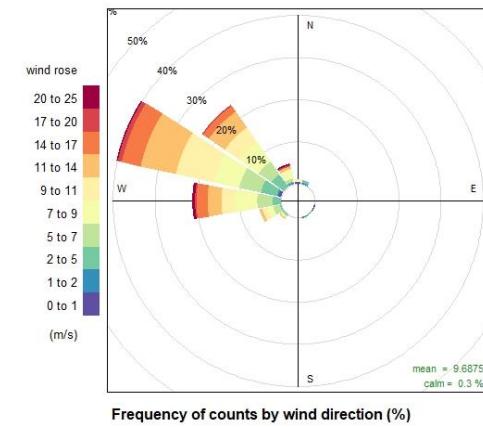


Ranchi

April

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.3	0	0	0	0.3	0.3	0	0	0	0	0
12-33		0	0.3	0.7	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0.3	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0.3	0	0	0	0	0	0	0	0
147-168		0	0.3	0	0	0	0.3	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	0.3	0.3	0.3	0	0.3	0	0	0	0
237-258		0	0	0.3	1.6	1.3	1.3	0.7	0	0	0	0
259-281		0	0	2	3.6	5.3	3.3	3.3	2.6	0.3	0.7	0
282-303		0.7	0.3	3.9	5.3	6.2	9.2	8.6	4.6	1	0.3	0
304-326		0	0	3.6	3.6	5.6	4.3	4.6	1.6	0.3	0	0
327-348		0	0.3	0.3	0.7	2	0.3	0.7	0	0.3	0.3	0

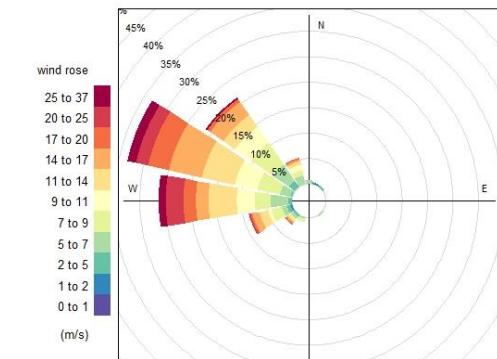


Ranchi

April

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0.7	0	0	0	0	0	0	0
12-33		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
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	0.3	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	0.3	0.7	0	0	0	0	0	0
214-236		0	0	0.3	0.7	0.3	0	0.3	0.3	0	0	0
237-258		0	0.3	0.7	1	2.1	0.7	1.7	1.4	0.3	0.3	0
259-281		0	0	0.7	3.5	3.1	3.5	5.6	2.4	2.4	3.5	1.4
282-303		0	0	0.3	2.1	4.5	4.5	6.6	6.6	4.2	2.4	1.7
304-326		0	0	1.4	3.8	5.2	3.8	2.8	3.1	0.7	0	0.3
327-348		0	0	0	1.7	1	1	0.7	0.3	0.3	0	0

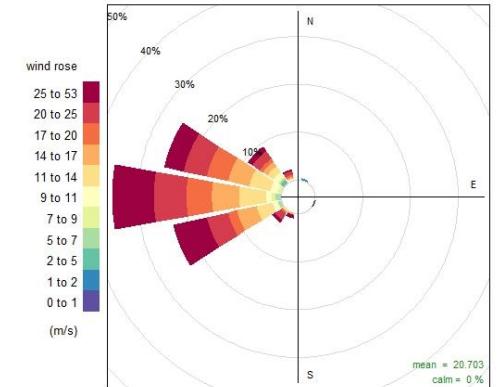


Ranchi

April

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0.4	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		0.4	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	0.4	0	0	0.8	
214-236		0	0	0	0	0	0.4	0.4	0.4	1.5	0.8	
237-258		0	0	0	0.8	0	1.1	3.4	4.2	1.9	4.6	7.2
259-281		0	0	0	1.1	0.8	1.1	5.7	5.7	5.3	6.8	8.7
282-303		0	0	0	0.8	1.5	4.6	4.6	4.6	4.9	4.2	
304-326		0	0	0.8	0.4	0.4	1.1	1.5	1.1	0.8	1.9	1.1
327-348		0	0	0	0	0.4	0	0.4	0.4	0.8	0.4	

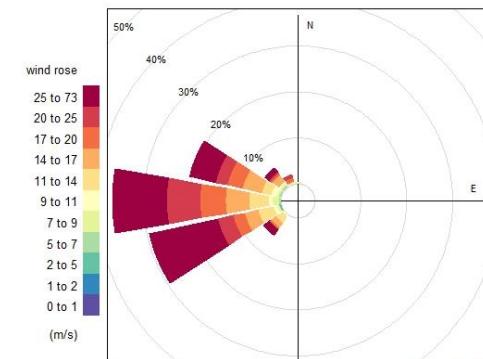


Ranchi

April

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0.4	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0.4	1.7	1.3	0.4	0	1.7	
237-258		0	0	0.4	0	0.4	0.9	3.4	3	2.6	3.4	15.4
259-281		0	0	0.4	1.3	0.9	4.3	5.1	5.6	7.3	12	
282-303		0	0	0.4	0.4	1.3	2.1	4.3	3.4	2.6	6	
304-326		0	0	0.4	0.4	0.4	0	1.7	0.4	0.4	0.4	1.3
327-348		0	0	0	0	0.4	0	0	0	0.9	0.9	0

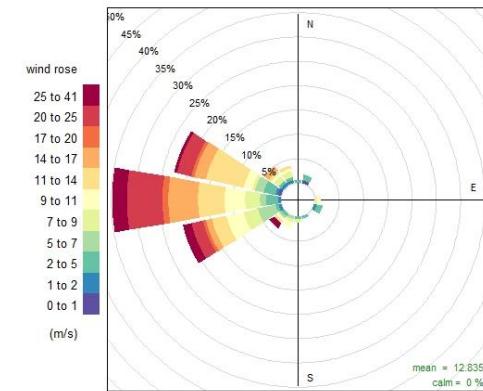


Ranchi

April

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0.6	0	0	0	0	0	0	0	0
12-33		0.6	0	1.2	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	0.6	0.6	0	0	0	0	0
102-123		0	0.6	1.2	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	0.6	0	0	0	0	0	0	0	0
168-191		0	0	0.6	0	0.6	0	0	0	0	0	0
192-213		0	0	0	0.6	0.6	1.2	0	0	0	0	0
214-236		0	0	0.6	0.6	0	0.6	0.6	0	0	0	1.2
237-258		0	0.6	0.6	3.7	3	3.7	3	1.2	0.6	2.4	1.8
259-281		0	0.6	2.4	1.2	3	4.3	5.5	6.1	1.2	7.3	3
282-303		0.6	0.6	2.4	1.8	0.6	1.8	7.9	2.4	0.6	3	0.6
304-326		0	0.6	0.6	0	1.2	0.6	0.6	1.2	0	0	0
327-348		0	0.6	0.6	0	1.2	0.6	0.6	0	0	0	0



Ranchi

May

1000 hPa level

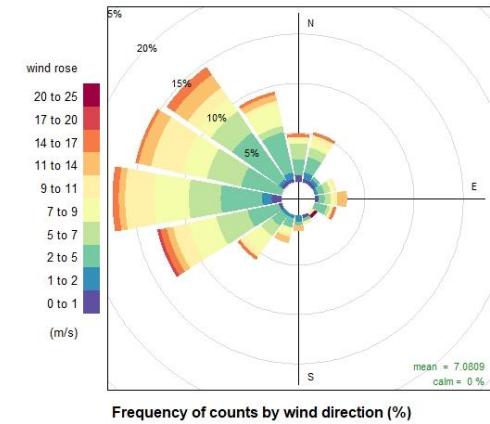
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

May

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1	1	0.5	0.3	0	0	0	0	0	0	0
12-33		0.5	0	0	0	0	0	0	0	0	0	0
34-56		0.3	0	0.3	0	0	0	0	0	0	0	0
57-78		0.5	0.5	0	0.3	0	0	0	0	0	0	0
79-101		0.5	0.5	0.5	0	0	0	0	0	0	0	0
102-123		0.3	0.3	0.8	0	0	0	0	0	0	0	0
124-146		1.8	1.3	0.3	0	0	0	0	0	0	0	0
147-168		1.5	1.3	0.3	0	0	0	0	0	0	0	0
168-191		1.3	1.8	2.8	0.5	0	0	0	0	0	0	0
192-213		3.6	2.8	1.5	0	0	0	0	0	0	0	0
214-236		2.6	6.4	15.2	3.1	0	0	0	0	0	0	0
237-258		4.9	3.6	4.1	0.5	0	0	0	0	0	0	0
259-281		4.1	3.6	5.2	1	0	0	0	0	0	0	0
282-303		0.8	2.3	1.5	0	0	0	0	0	0	0	0
304-326		2.1	1.8	2.8	0.3	0	0	0	0	0	0	0
327-348		0.8	1.3	0.3	0	0	0	0	0	0	0	0

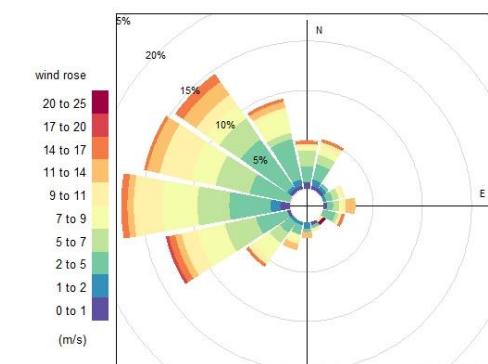


Ranchi

May

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1	0.5	1.8	0.8	0	0	0.3	0	0.3	0	0
12-33	0	1.3	0.8	0.5	0	0	0	0.3	0	0	0	0
34-56	0.8	0	0.8	0.3	0	0	0	0	0	0	0	0
57-78	0	0	0	0	0	0	0	0.3	0	0	0	0
79-101	0	0.3	0.3	0.3	0	0	0	0	0	0	0	0
102-123	1	0	0.8	0	0	0	0	0	0	0	0	0
124-146	0	0.5	1	0	0	0	0	0	0	0	0	0
147-168	0.3	0	1.3	0	0	0	0	0	0	0	0	0
168-191	0	0	1.3	0.5	0	0.5	0	0	0	0	0	0
192-213	0.3	0.5	1.3	0.5	0	0.5	0	0	0	0	0	0
214-236	0	0.5	3.8	2.6	1	0.8	0	0	0	0	0	0
237-258	0	0.8	3.6	3.6	1.8	0.8	0.5	0	0	0	0	0
259-281	0	0.8	6.1	4.1	2.6	0.8	1	0.3	0.3	0	0.3	0
282-303	1.3	2	7.4	2.3	1.8	1.8	2.3	0.3	0	0	0	0
304-326	0.5	1.5	6.1	4.6	1.8	1	0.5	0.5	0	0	0	0
327-348	0	0.8	3.8	1	1	0.5	0.5	0	0	0	0	0

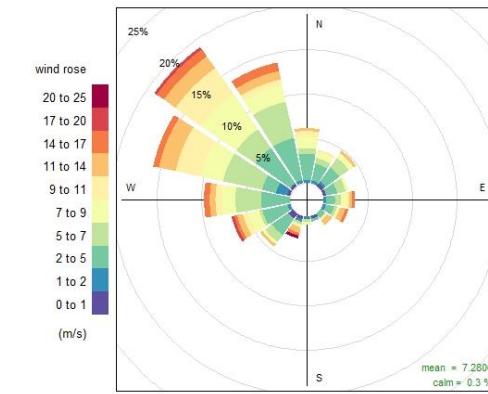


Ranchi

May

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	1.8	1	2.1	0.3	0.3	0.3	0	0	0
12-33	0	0	1	0.8	0.5	0	0.5	0	0	0	0	0
34-56	0	0.8	0.5	0.5	0	0	0	0	0	0.3	0	0
57-78	0.3	0.3	0	0	0	0	0	0	0	0	0	0
79-101	0	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	0
124-146	0	0	0	0	0	0	0	0	0	0	0	0
147-168	0	0.3	0.3	0	0.3	0	0	0	0	0	0	0
168-191	0	0.3	0	0	0	0	0	0	0	0	0	0
192-213	0	0	0.5	0	0	0.3	0	0	0	0	0	0
214-236	0	0.3	0.5	0.3	0	0	0	0	0	0	0	0
237-258	0	0	0.5	0.3	0.3	0.5	0	0	0	0	0	0
259-281	0	0.8	2.8	3.1	1.5	1.3	1	0.5	0.3	0	0	0
282-303	0.3	0.3	3.8	3.8	6.9	5.4	3.3	1.8	1	0.3	0	0
304-326	0	0.5	5.1	4.4	4.6	4.6	5.9	3.8	1	0.8	0.5	0.5
327-348	0.5	0.5	2.3	2.6	2.8	2.3	1.3	0.8	0.5	0.5	0.5	0.3

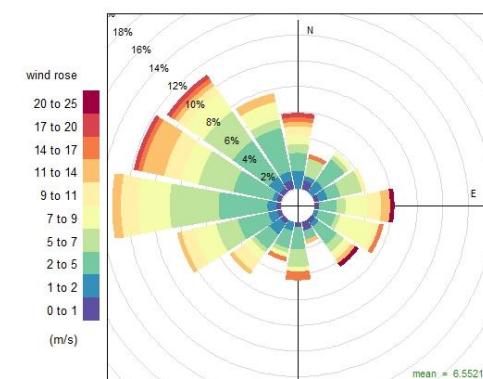


Ranchi

May

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	1.1	0.3	1.1	0.8	0.5	0.3	0	0	0
12-33		0	0.3	0.5	0.8	0.3	0.3	0.5	0	0	0	0
34-56		0	0	0.3	0.3	0	0.3	0	0.3	0	0	0
57-78		0	0	0.3	0	0	0.3	0	0	0	0	0
79-101		0.3	0	0.5	0	0	0.3	0.3	0	0	0	0
102-123		0.5	0	0.8	0	0	0	0	0	0	0	0
124-146		0	0	0.3	0	0	0.3	0	0	0	0	0
147-168		0	0.3	0	0	0	0	0	0	0	0	0
168-191		0.3	0	0.3	0	0	0	0	0	0	0	0
192-213		0	0.3	0.8	0	0	0	0	0	0	0	0
214-236		0	0	0.8	0	0.8	0	0.3	0.3	0	0	0
237-258		0	0.3	1.1	1.9	1.9	0.5	1.1	0.3	0	0	0
259-281		0.3	0.5	4.6	3.8	3.3	3.6	1.6	1.4	0.5	0	0.3
282-303		0.3	0.3	2.7	3	5.2	3	5.2	1.9	0.8	0.3	0
304-326		0	0.5	2.5	3.6	3.8	3.8	6.3	2.5	0.3	0.5	0.3
327-348		0	0.8	1.6	1.6	2.5	1.4	1.1	0.8	0	0	0

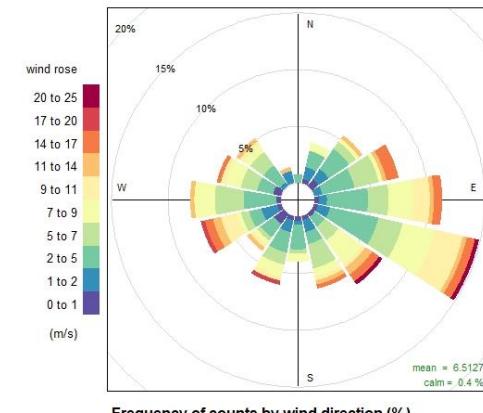


Ranchi

May

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0.3	0	0	0.6	0	0	0	0	0	0
12-33		0	0.3	0.9	0	0.3	0.3	0.6	0	0	0	0
34-56		0	0	0	0.3	0	0.3	0.3	0.3	0	0	0
57-78		0	0.6	0	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	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	0.3	0	0	0	0	0	0	0	0
168-191		0	0	0.9	0.6	0	0	0.3	0	0	0	0
192-213		0	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0	0	0
214-236		0	0.3	0.9	1.2	1.8	1.5	1.5	0.9	0.9	1.5	0.6
237-258		0	0	1.5	2.7	2.4	2.7	5.4	3.6	1.2	1.8	0.6
259-281		0	0	0.9	2.7	3.3	3.6	3.9	3	3.9	1.5	1.5
282-303		0	0	0.9	1.5	1.8	0.6	3.6	1.8	1.5	2.1	1.2
304-326		0	0	0.6	2.1	1.5	3	0.9	1.8	0.6	0.9	1.2
327-348		0	0	0	0.6	0	0.9	0.9	0.9	0	0	0.3

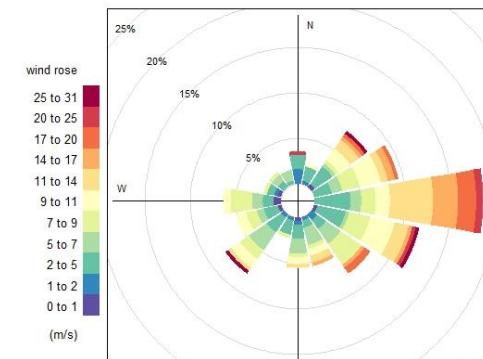


Ranchi

May

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.3	0	0.6	0	0	0	0.3	0	0
12-33		0	0	0.6	0	0.3	0.6	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0.3	0	0
57-78		0.3	0	0.3	0	0.3	0	0	0.3	0.3	0	0
79-101		0	0	0.6	0	0	0	0	0	0	0	0
102-123		0	0	0	0.3	0	0.3	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	0.3	0.6	0	0	0	0	0	0
168-191		0	0	0.6	0.3	1.2	0.3	0.3	0	0	0	0
192-213		0	0.6	1.9	1.2	0.3	0.3	0.3	0.6	0.3	0.6	0
214-236		0	0	1.6	0.6	3.1	1.9	4	1.6	0.6	3.1	0.9
237-258		0.3	0.6	1.2	3.1	2.8	4	4	2.2	2.8	5	0.9
259-281		0	0	1.6	1.6	1.6	2.8	2.8	3.1	1.6	2.5	3.1
282-303		0	0.3	0.6	2.5	0.9	1.2	0.9	1.9	0.6	0.6	0.9
304-326		0	0	0.3	0.6	0.3	0.3	1.2	1.2	0	0.3	0.3
327-348		0	0	0.9	0.3	0.3	0.9	0.3	0	0	0	0

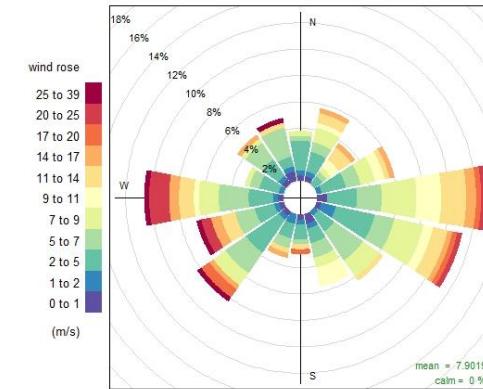


Ranchi

May

100 hPa level

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



Ranchi

June

1000 hPa level

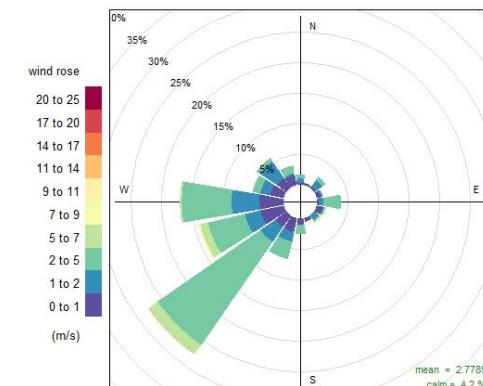
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

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		0.3	0.7	0.7	0	0	0	0	0	0	0	0
12-33		0.3	0	0	0	0	0	0	0	0	0	0
34-56		0.3	1.3	0.7	0	0	0	0	0	0	0	0
57-78		0.7	0.3	0	0	0	0	0	0	0	0	0
79-101		0.3	0.7	2.9	0	0	0	0	0	0	0	0
102-123		1	0.3	0	0.3	0	0	0	0	0	0	0
124-146		0	1	0.3	0	0	0.3	0	0	0	0	0
147-168		0.7	0	0	0	0	0	0	0	0	0	0
168-191		1	0	1.6	0	0	0	0	0	0	0	0
192-213		2.3	1.6	2.9	0	0	0	0	0	0	0	0
214-236		2.3	2.9	20.5	2	0	0	0	0	0	0	0
237-258		3.9	2.6	6.2	1.3	0.3	0	0	0	0	0	0
259-281		3.9	4.6	8.1	0.3	0	0	0	0	0	0	0
282-303		2.3	1.6	1.3	0	0	0	0	0	0	0	0
304-326		2	3.3	0.7	0	0	0	0	0	0	0	0
327-348		1.6	0.3	1.3	0	0	0	0	0	0	0	0

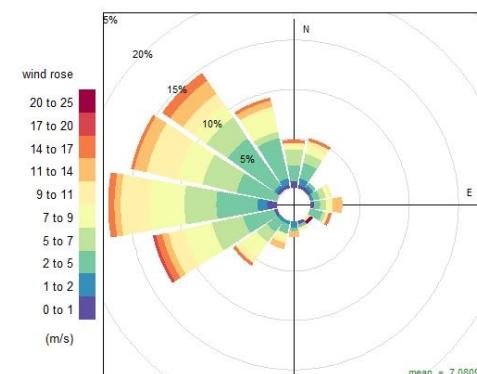


Ranchi

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		0.6	0	1.6	1.6	0.3	0.3	0	0.3	0	0	0
12-33		0.3	0.6	1.6	1	0.6	0.6	0	0.3	0	0	0
34-56		0.3	0.3	0.3	0	0	0	0	0	0	0	0
57-78		0	0.3	0.6	0.6	0.3	0.3	0	0	0	0	0
79-101		0.3	0	0.6	0.6	0.3	0.3	1	0	0	0	0
102-123		0	0	1.3	0.3	0	0.3	0	0.3	0	0	0
124-146		0	0	0	0	0	0.3	0	0	0	0.3	0
147-168		0.3	0	0.3	0	0	0.3	0	0	0	0	0
168-191		0	0.6	0.3	0	0	0	0.6	0	0	0	0
192-213		0	0.3	1	0	0.6	0.3	0.6	0	0	0	0
214-236		0	0.3	1.3	1.3	1.9	0.6	0	0.3	0	0	0
237-258		0.3	0	3.2	3.2	2.9	1.6	0.6	0.6	0.3	0	0
259-281		1	1	4.2	3.2	3.6	2.9	0.6	0.6	0	0	0
282-303		0	0	4.2	3.6	2.6	3.2	1.3	0.3	0	0	0
304-326		0.3	0.3	5.8	2.6	1.6	1.3	1.6	1	0	0	0
327-348		0.3	0.6	4.2	0.6	2.3	0.3	0.6	0.3	0	0	0

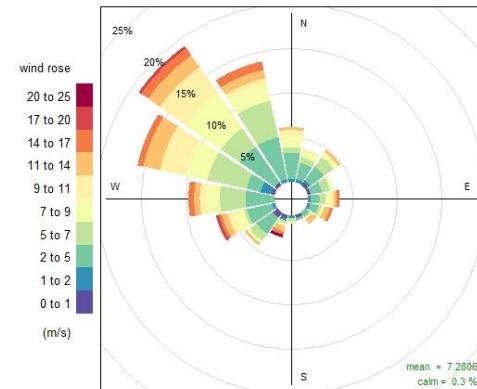


Ranchi

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	0.3	2.9	0.6	1.3	0.6	0.3	0	0	0	0
12-33		0	0.3	1.9	0.6	0.6	0.3	0	0	0	0	0
34-56		0.3	0.3	1.9	1.3	0.6	0	0.3	0	0	0	0
57-78		0.3	0	1.3	1	0.3	0	0	0	0	0	0
79-101		0	0.3	1	0.6	0.6	0.3	0.3	0.3	0	0	0
102-123		0	0.3	1	0.3	0.3	0	0.6	0.3	0	0	0
124-146		0	0	0.6	0	0	0.3	0.6	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	0.3	0.3	0	0	0	0	0	0
192-213		0.3	0.3	0	0.3	0.3	0	0.6	0.3	0	0.3	0
214-236		0.6	0	2.3	1	0.3	0	0.3	0	0	0	0
237-258		0	0.3	2.9	0.3	1.3	0.6	0.6	0.3	0.3	0	0
259-281		0	0	3.2	2.9	1.6	0.6	0.6	0.6	0	0	0
282-303		0.3	1.3	1.6	4.5	2.6	2.9	1.9	0.6	0	0	0
304-326		0.3	0	4.8	2.6	4.8	3.5	1.6	1	0.3	0	0
327-348		0	0.3	4.8	4.2	1.9	0.6	1	1	0	0	0

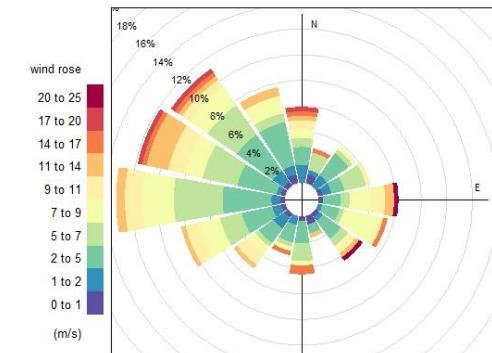


Ranchi

June

500 hPa level

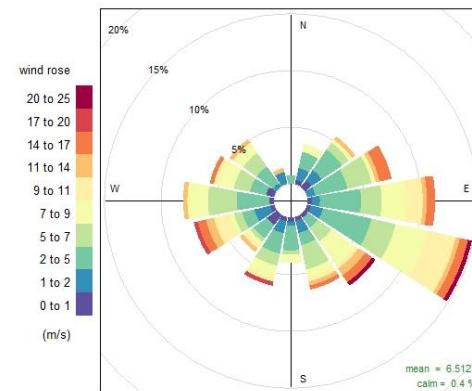
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.4	1.4	0.7	0.7	0.7	0.3	0.3	0.3	0	0
12-33		0.7	0.3	0	1.4	0	0	0	0.3	0	0	0
34-56		0	1	2.1	0.3	0.3	0	0	0	0	0	0
57-78		0.3	0.7	1	1.7	0	0.3	0	0	0	0	0
79-101		0.3	0	1.4	0.7	1.7	1	0.7	0	0	0.3	0
102-123		0	0.3	1.4	0.3	2.8	0.3	0	0.3	0	0	0
124-146		0.3	0.3	1.7	0.7	0.3	0.3	0.3	0	0	0.3	0
147-168		0.7	0	0.3	0	0	0	0.3	0	0	0	0
168-191		0.3	0	2.1	1.4	0.3	0	0	0.7	0	0	0
192-213		0	0.7	1.4	0.3	0.3	0	0	0.3	0	0	0
214-236		0.3	1	1.4	0.3	0.7	1	0.3	0	0	0	0
237-258		0.3	0.7	2.4	1.7	1.7	1	0.3	0	0	0	0
259-281		0.3	0.7	3.8	3.8	2.4	1.4	0.7	0	0	0	0
282-303		0.3	0.3	3.1	2.8	1.4	1.4	1.7	0.3	0.3	0	0
304-326		0.3	1	3.5	2.8	1.7	0.7	0.3	0.3	0.3	0	0
327-348		0.7	0.7	3.5	0.7	1.4	0	0.7	0	0	0	0

**Ranchi**

June

300 hPa level

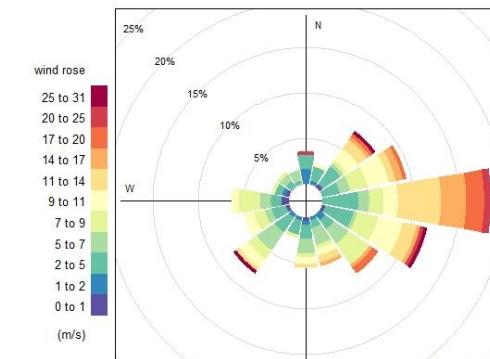
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.7	0	0	0	0	0	0	0	0
12-33		0.4	1.1	1.5	0	0.7	0	0	0	0	0	0
34-56		0.7	1.1	2.2	0.7	0.4	0	0.4	0	0	0	0
57-78		0	0.7	2.9	2.2	0.4	0	0.4	1.1	0	0	0
79-101		0.4	0.7	3.6	1.8	2.2	1.5	0.4	0.7	0	0	0
102-123		0.4	1.1	4.4	2.2	2.9	2.5	0.4	0.7	0	0.4	0
124-146		0.4	0	1.1	1.5	2.5	0.4	0.7	0.7	0	0.4	0
147-168		0.4	1.1	1.1	1.8	0.7	0.4	0.4	0.4	0	0	0
168-191		0.4	0.4	2.2	0.7	0.7	0	0	0	0	0	0
192-213		0.4	1.1	1.8	1.1	1.1	0.4	0	0	0.4	0	0
214-236		1.1	0	1.5	0.4	0.4	0.4	0.4	0	0	0	0
237-258		0.4	1.5	1.1	0.7	0.4	1.5	0.7	0.7	0.4	0	0
259-281		0.4	0	2.9	2.5	1.8	0	0.4	0	0	0	0
282-303		0.7	0	1.5	1.5	1.5	0.4	0	0.4	0	0	0
304-326		0	0.4	1.8	1.5	0.7	0.4	0.4	0	0	0	0
327-348		0	1.1	0	0	0	0	0.4	0	0	0	0



Ranchi

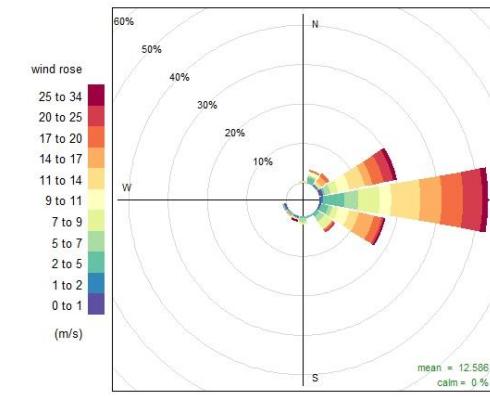
June 200 hPa level

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	1.6	1.6	0	0	0	0	0	0	0.4	0
12-33		0	0.4	1.6	0	0	0.4	0	0	0	0	0
34-56		0.4	0	2.4	0.4	0.4	1.6	1.2	0.4	0.4	0	0.4
57-78		0	0	2	1.2	2	2.4	0.8	0.8	0.4	0	0
79-101		0	0	4	1.2	1.6	1.6	4.7	2.8	2	0.8	0
102-123		0.4	0	3.2	0.4	2.4	2.8	1.6	0.4	0	0.4	0.4
124-146		0	0.8	1.2	2	2.8	0	0	0.4	0.8	0	0
147-168		0	0.4	0.8	2	0.4	0.8	0.8	0.4	0	0	0
168-191		0.4	0.4	1.6	1.6	0.4	0.8	0.4	0	0	0	0
192-213		0	0.4	1.6	0	0.4	0	0	0	0	0	0
214-236		0	0.4	2	2.4	1.2	1.2	0.4	0	0	0	0.4
237-258		0.4	0	1.6	0.8	1.2	1.2	0	0	0	0	0
259-281		0.8	0	1.2	1.2	2.4	0.8	0	0	0	0	0
282-303		0.4	0.4	0.8	0	0.4	0	0	0	0	0	0
304-326		0	0	0.8	0.8	0.4	0	0	0	0	0	0
327-348		0	0	0.4	1.2	0	0	0	0	0	0	0



Ranchi 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	0.5	0	0	0	0
12-33		0	0	1.5	0.5	0	1	0	0	0.5	0	0
34-56		0	0.5	0	0	0	0	1	1.5	1	0	0
57-78		1	0	0.5	1.5	2	3	3.9	2	3	2.5	1
79-101		0.5	0.5	5.4	3.4	5.4	3	7.4	5.4	5.4	4.9	1.5
102-123		0.5	0	2	1	1.5	3	2.5	3.9	2	0.5	0.5
124-146		0	0	1	1.5	2.5	0	0	0	0.5	0.5	0
147-168		0	0	0.5	0	0	0	0	0	0	0	0
168-191		0	0	0.5	1	0.5	0	0	0	0	0	0
192-213		0	0.5	0	0	0	0	0.5	0	0	0	0.5
214-236		0	0	0.5	0	0	0	0	0.5	0	0	0
237-258		0.5	0	0.5	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



Ranchi

July

1000 hPa level

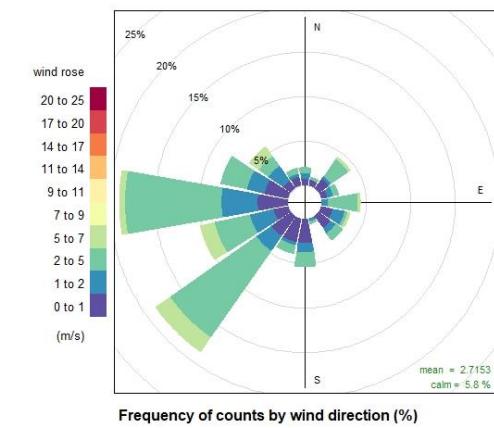
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

July

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.7	0.7	0.7	0	0	0	0	0	0	0	0
12-33		0.7	0	0.3	0	0	0	0	0	0	0	0
34-56		1.4	0.3	2.4	0.3	0	0	0	0	0	0	0
57-78		0.7	0.7	0.7	0	0	0	0	0	0	0	0
79-101		0	0.7	3.4	0.3	0	0	0	0	0	0	0
102-123		1.4	1.4	0.3	0.3	0	0	0	0	0	0	0
124-146		1.7	0.7	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		2.7	1	1.7	0	0	0	0	0	0	0	0
192-213		2.7	0.3	1	0	0	0	0	0	0	0	0
214-236		2.7	2	11.9	2	0	0	0	0	0	0	0
237-258		1.7	2.7	4.1	1.7	0	0	0	0	0	0	0
259-281		3.4	4.1	10.8	0.7	0	0	0	0	0	0	0
282-303		2.7	2	3.1	0	0	0	0	0	0	0	0
304-326		1	2	1.4	1.4	0	0	0	0	0	0	0
327-348		1	0.3	0.7	0	0	0	0	0	0	0	0

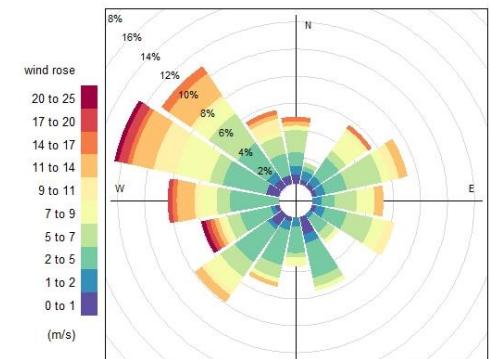


Ranchi

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	1	0.7	0.7	1	1.7	0.3	0	0.3	0.3	0	0	0
12-33		0.3	0.7	0.3	0.3	0	0	0	0	0	0	0
34-56		0.3	0.7	1.7	0.7	1.7	0.3	0	0.3	0	0	0
57-78		0.3	0.7	1.7	2.6	0.7	0.7	0.7	0	0	0	0
79-101		0	0.7	1	1.7	1.3	0	0.7	0	0	0	0
102-123		0.3	0.7	1.7	2	1	0.7	0	0	0	0	0
124-146		0	0.3	1.3	0.7	0.3	0	0	0	0	0	0
147-168		1	0.7	2.6	0.7	0.3	0	0	0	0	0	0
168-191		0.3	0.7	2	0.3	0.7	0	0	0	0	0	0
192-213		0.3	0.7	2.6	1	0.3	0	0.3	0	0	0	0
214-236		1	0.3	3	1.3	1.3	0.3	0.7	0	0	0	0
237-258		0.3	0.3	2.3	1	0.3	0.3	0.3	0.3	0.3	0.3	0
259-281		0	0	3.6	1	1.3	0.3	1.3	0.3	0.3	0	0
282-303		1	0	3.3	1	2.6	1.7	1.7	0.3	0.7	0.3	0
304-326		0.7	0.7	2.6	2.6	1.3	0.3	2	0.7	0	0	0
327-348		0.7	0	1.7	1.3	0.3	1	0.3	0.3	0	0	0

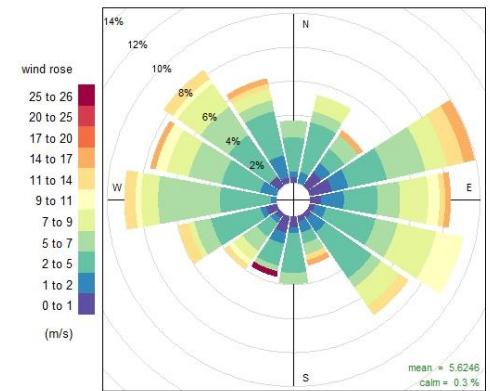


Ranchi

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

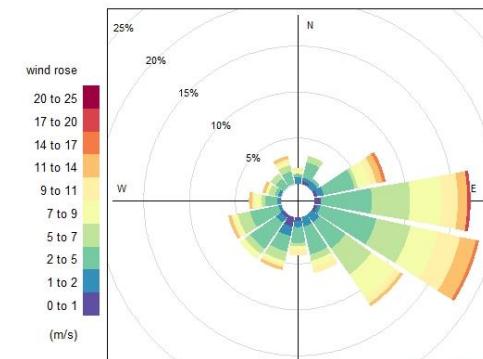


Ranchi

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	0.7	0.3	0	0.3	0.3	0	0	0	0	0
12-33		0.3	0.3	1.7	0.7	0	0	0	0	0	0	0
34-56		0	0.7	0.3	0	0	0	0	0	0	0	0
57-78		0.3	0.7	3.5	0.3	1.4	0.7	0.7	0.3	0	0	0
79-101		0.7	0	5.6	4.2	3.5	1.7	1	0	0.3	0	0
102-123		0.3	0.3	6.2	3.8	3.1	2.4	1.7	0.3	0	0	0
124-146		0	1	3.5	3.5	3.1	0.7	0.3	0	0	0	0
147-168		0	1	3.1	0.3	0.7	0.7	0	0	0	0	0
168-191		0.3	0.7	1.7	0.7	0.3	0.7	0	0	0	0	0
192-213		1	1	1.7	1	0.3	0.3	0.3	0	0	0	0
214-236		0.3	0.7	3.5	0.7	0.7	0	0	0	0	0	0
237-258		0	0.3	3.1	1.4	0.3	0.3	0.3	0	0	0	0
259-281		0	0.3	1.4	0.3	0.7	0.3	0.3	0	0	0	0
282-303		0	0.3	0.3	0.7	0.3	0	0.3	0	0	0	0
304-326		0	0	1	0.7	0	0	0	0	0	0	0
327-348		0	0	1.4	0.7	0.3	0.3	0.3	0	0	0	0

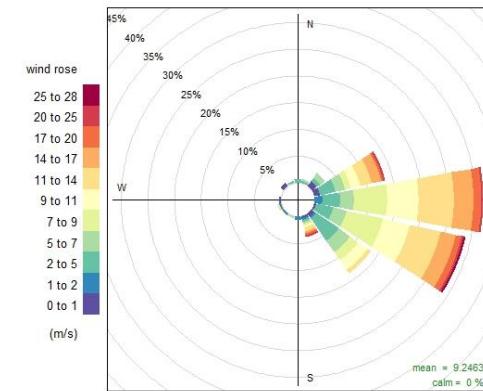


Ranchi

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	0.7	0	0	0	0	0	0	0	0
12-33		0	0	0.4	0.4	0	0	0	0	0	0	0
34-56		1.1	0	0.7	1.1	0	0	0	0	0	0	0
57-78		1.1	0	2.9	1.8	1.1	1.8	2.2	1.8	0.4	0.4	0
79-101		0	1.5	3.3	2.6	6.2	5.9	6.6	3.7	1.5	0.4	0
102-123		0.4	0	3.3	2.6	7	5.1	5.9	2.9	1.1	0.4	0.4
124-146		0.7	0.4	5.1	2.6	1.8	2.2	0.7	0	0	0	0
147-168		0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.4	0.4	0.4	0
168-191		0	0.7	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0.4	0	0	0	0	0	0	0
214-236		0	0.4	0	0	0	0	0	0	0	0	0
237-258		0	0.4	0	0	0	0	0.4	0	0	0	0
259-281		0.4	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		0.7	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.4	0	0	0	0	0	0	0	0

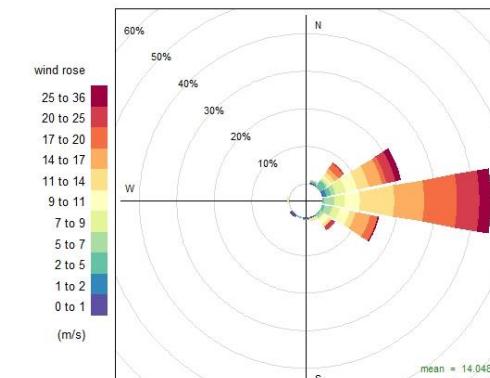


Ranchi

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
12-33		0.4	0	0.4	0.4	0	0	0	0	0	0	0
34-56		0	0	2	0.4	0.8	0.4	1.2	1.2	1.6	0.4	0
57-78		0.4	0.8	1.2	1.2	2.8	3.2	3.2	3.6	1.2	2.4	1.6
79-101		0	0	0.4	2.8	2.8	4	9.2	8	8.8	6	3.2
102-123		0	0	0.8	2	2	2.8	1.6	4	2	0	0.4
124-146		0	0	0.4	0.8	0.4	1.6	0.8	0	0	1.2	0
147-168		0.4	0	0	0	0.4	0	0.4	0	0	0	0
168-191		0.4	0	0.4	0	0	0	0	0	0	0	0
192-213		0	0	0.4	0	0	0	0	0	0	0	0
214-236		0.8	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	0.4	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

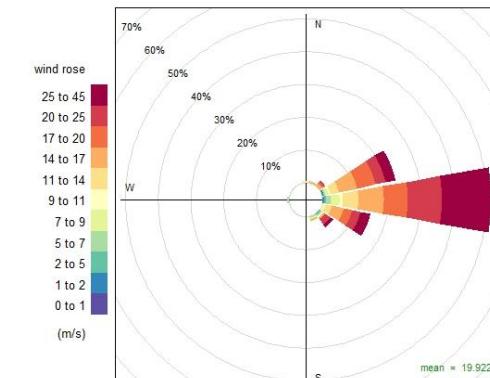


Ranchi

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	0.5	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0.5	0	0	0
34-56		0	0	0	0	0	0	0	1	0.5	0.5	0
57-78		0	0.5	0	0.5	1	0.5	2.6	5.7	5.7	3.1	3.1
79-101		0	0.5	0.5	1.6	2.6	1	4.7	7.8	7.3	10.4	15.1
102-123		0	0	0	0.5	0.5	0.5	2.1	3.6	2.6	2.6	3.1
124-146		0	0	0.5	0.5	0	0.5	0	0.5	0	2.1	1
147-168		0	0	0	0.5	0.5	0	0	0.5	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	0.5	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



Ranchi

August

1000 hPa level

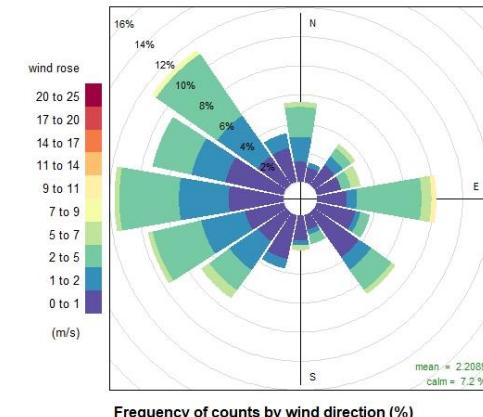
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

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		1.4	1.7	2.1	0.3	0	0	0	0	0	0	0
12-33		1	0.3	0	0	0	0	0	0	0	0	0
34-56		1.7	0.7	0.7	0.3	0	0	0	0	0	0	0
57-78		1.7	0	0.7	0.7	0	0	0	0	0	0	0
79-101		2.1	0.7	4.5	0.7	0	0.3	0	0	0	0	0
102-123		2.7	0.3	0.7	0	0	0	0	0	0	0	0
124-146		3.8	1	1.7	0.3	0	0	0	0	0	0	0
147-168		1	0.3	0.3	0	0	0	0	0	0	0	0
168-191		1.7	0.3	0.3	0.3	0	0	0	0	0	0	0
192-213		3.1	0.7	0	0	0	0	0	0	0	0	0
214-236		2.4	2.4	1.7	0.7	0	0	0	0	0	0	0
237-258		2.7	3.1	3.4	0.3	0	0	0	0	0	0	0
259-281		3.8	3.4	4.1	0.3	0	0	0	0	0	0	0
282-303		4.1	2.4	2.7	0	0	0	0	0	0	0	0
304-326		2.4	3.4	5.1	0	0.3	0	0	0	0	0	0
327-348		2.4	1	0	0	0	0	0	0	0	0	0

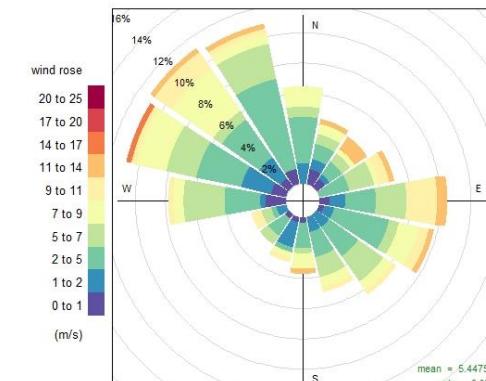


Ranchi

August

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	1.4	3.1	0.7	1.4	0	0	0	0	0	0
12-33		1	0.7	1	0.7	0.7	0	0.3	0	0	0	0
34-56		0.7	0.3	1	0.7	0.3	0	1	0	0	0	0
57-78		0	0	2	1.7	0.3	0.7	0.3	0	0	0	0
79-101		0.7	1	2	2	0	2	0.7	0	0	0	0
102-123		0.3	0.7	3.7	0.7	1.4	0.7	0.3	0	0	0	0
124-146		0	1	2.4	2	0.7	0.3	0	0	0	0	0
147-168		0	1	1.7	1.4	0.7	0.3	0	0	0	0	0
168-191		0.3	0	1.7	0.3	1	0	0.3	0	0	0	0
192-213		0.3	1.7	0.3	0	0.3	0.3	0	0	0	0	0
214-236		0.3	0	1.4	0.7	0	0	0	0	0	0	0
237-258		0	0.7	0.3	0.7	0	0.7	0	0	0	0	0
259-281		1.4	0.3	2.4	2.7	0.7	0.3	0	0	0	0	0
282-303		1	2	3.1	2	2	0.3	0	0.3	0	0	0
304-326		0.7	1.7	3.1	0.7	3.4	1.4	0.3	0	0	0	0
327-348		1	0	6.1	2.4	0.7	0.3	0.3	0	0	0	0

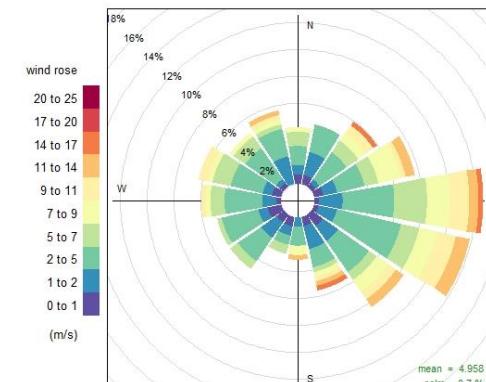


Ranchi

August

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0.7	0.7	1.4	1	0.3	0	0	0	0	0	0
12-33		0.7	1.7	2.1	0	0	0	0	0	0	0	0
34-56		0.3	0.3	2.4	1	0.7	0.7	0	0.3	0	0	0
57-78		0.7	1	2.1	1	1.7	0.3	0.7	0	0	0	0
79-101		0.3	1.7	3.8	2.4	1.7	1.4	0.7	0.3	0	0	0
102-123		0.3	1.4	4.9	1.4	1.4	1.4	1	0	0	0	0
124-146		1	1.4	2.8	0.7	1	0.7	0.7	0	0	0	0
147-168		0.7	1.7	1	0.3	0.3	0.3	0.3	0.3	0	0	0
168-191		0	0.7	1.7	0	0.7	0	0.3	0	0	0	0
192-213		0.7	0.7	0.7	0.7	0	0	0	0	0	0	0
214-236		0.7	1.4	2.1	0.7	0	0	0	0	0	0	0
237-258		1	0.7	2.8	0.3	0	0	0	0	0	0	0
259-281		0.3	1	2.8	1	0.3	0.3	0	0	0	0	0
282-303		0.7	0.7	2.4	1.4	0.3	0.7	0	0	0	0	0
304-326		0.3	0.3	2.8	1	0.3	0	0	0	0	0	0
327-348		0	2.1	2.1	0.3	0.3	0.3	0.3	0	0	0	0

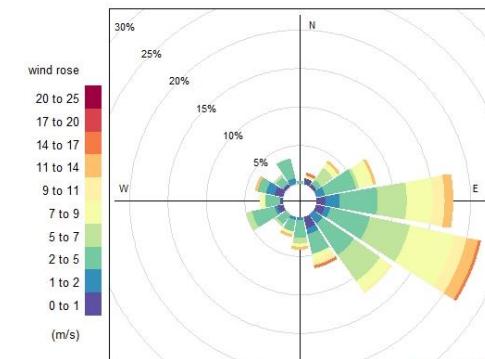


Ranchi

August

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0.4	0	0	0	0	0	0	0	0
12-33		0.8	0	0	0	0.4	0	0	0.4	0	0	0
34-56		0.4	0	0.8	1.9	0.8	0	0.4	0	0	0	0
57-78		0	1.1	4.2	0.4	1.9	0	0.4	0	0	0	0
79-101		1.1	1.9	4.9	3.8	3.4	1.5	1.1	0	0	0	0
102-123		1.1	0.8	5.3	5.3	6.1	1.5	1.5	0.4	0	0	0
124-146		0	1.5	4.9	4.2	1.5	0.4	0	0	0	0	0
147-168		1.5	0.8	2.7	0	0.8	0.8	0	0.4	0	0	0
168-191		0	0.4	2.3	0.8	0.4	0	0.4	0	0	0	0
192-213		0	0.4	1.5	0	0.4	0	0.4	0	0	0	0
214-236		0	0	1.5	0.4	0	0	0	0	0	0	0
237-258		0.8	0.4	3	0.8	0	0	0	0	0	0	0
259-281		0.4	0	1.9	0	0.8	0	0	0	0	0	0
282-303		1.1	1.1	1.1	0	0	0	0.4	0	0	0	0
304-326		0.4	0	1.1	0.4	0	0	0	0	0	0	0
327-348		0	0.8	2.7	0	0	0	0	0	0	0	0

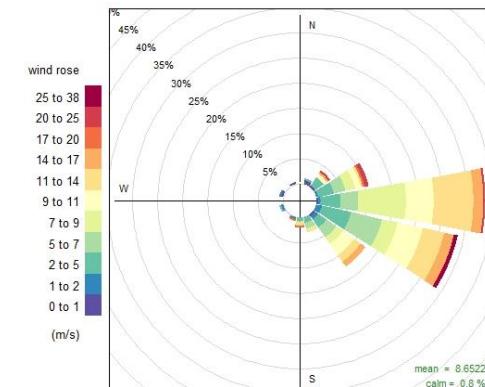


Ranchi

August

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0.4	0	0	0	0	0
12-33		0.8	0	0.4	0	0	0	0	0	0	0	0
34-56		0.4	0	2	0	0	0.8	0	0.4	0	0.4	0
57-78		0	0.4	3.2	2.4	2	1.2	0.4	0	0.4	0.8	0
79-101		0.4	0.4	4	3.6	9.5	5.5	7.9	2	0	0.4	0
102-123		0	1.2	5.9	6.3	3.2	5.1	4.3	2	0	0	0.8
124-146		0.4	0.8	2	2.4	1.6	2.8	1.6	1.2	0	0	0
147-168		0	0	1.2	1.2	0.4	0	0.4	0	0	0	0
168-191		0	0	0.8	0	0	0	0.8	0	0.4	0	0
192-213		0	0.4	0	0	0	0	0	0	0.4	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0.4	0.4	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0.4	0.4	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0.4	0	0	0	0	0	0	0	0	0	0

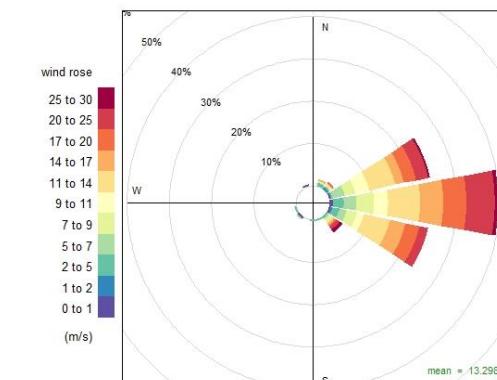


Ranchi

August

200 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0.8	0	0.4	0	0	0.4	0	0	0
34-56		0	0.4	0.4	0	0.4	0	0.4	0	0.4	0	0
57-78		0.4	0	0.4	2.9	2.5	3.4	6.3	2.1	2.9	2.9	0.4
79-101		0.8	0	2.5	2.9	4.2	3.4	7.6	5.5	5.5	6.7	0.8
102-123		0.4	0.4	1.7	1.7	2.5	1.7	6.3	3.8	3.4	2.1	0
124-146		0	0	0.4	0.4	0.8	0	0.4	0.4	0.4	0.8	0.8
147-168		0	0	0.4	0	0	0.4	0	0	0	0	0
168-191		0	0	0.4	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0.4	0	0	0.4	0	0	0	0	0	0	0
237-258		0	0	0.4	0	0	0	0	0	0	0	0
259-281		0	0	0	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0.4	0	0	0	0	0	0	0	0	0	0

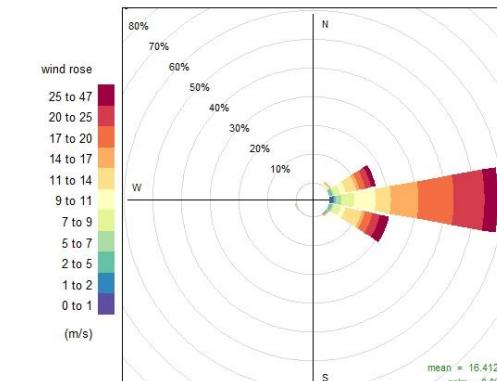


Ranchi

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
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0.5	0.5	0.5	0	0	0	0
57-78		0	0	1.1	0.5	2.1	2.1	3.7	1.1	2.1	2.1	1.6
79-101		1.1	0.5	0.5	2.1	4.3	7.5	5.3	9.6	12.3	10.7	4.8
102-123		0	0	1.1	0.5	2.7	1.6	5.9	1.1	2.7	2.7	3.2
124-146		0	0	0.5	0	0	0	0	0.5	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0	0	0	0	0	0
237-258		0	0	0	0.5	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



Ranchi

September

1000 hPa level

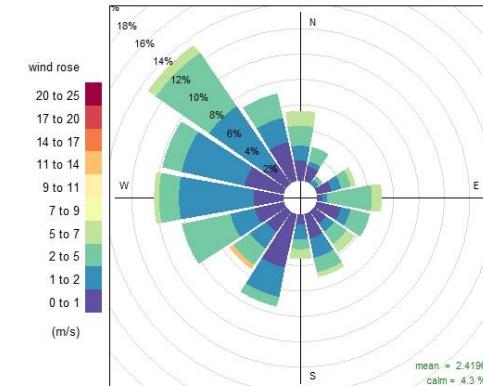
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

September

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1.6	1.2	1.6	1.2	0	0	0	0	0	0	0
12-33		1.2	0.4	1.2	0	0	0	0	0	0	0	0
34-56		0	0.4	0.4	0	0	0	0	0	0	0	0
57-78		1.2	0.8	0.8	0.4	0	0	0	0	0	0	0
79-101		0.4	0.4	3.5	0.8	0	0	0	0	0	0	0
102-123		2	0.8	1.6	0	0	0	0	0	0	0	0
124-146		1.2	0.8	1.2	0.8	0	0	0	0	0	0	0
147-168		2	1.2	1.2	0	0	0	0	0	0	0	0
168-191		0.8	1.6	0.8	1.2	0	0	0	0	0	0	0
192-213		4.3	2.4	0.8	0	0	0	0	0	0	0	0
214-236		2	1.6	1.6	0	0	0	0.4	0	0	0	0
237-258		2.4	2	3.9	0	0	0	0	0	0	0	0
259-281		2.4	5.9	1.6	0.4	0	0	0	0	0	0	0
282-303		3.1	5.1	1.6	0	0	0	0	0	0	0	0
304-326		2	5.5	5.1	0.8	0	0	0	0	0	0	0
327-348		3.1	2	2	0	0	0	0	0	0	0	0

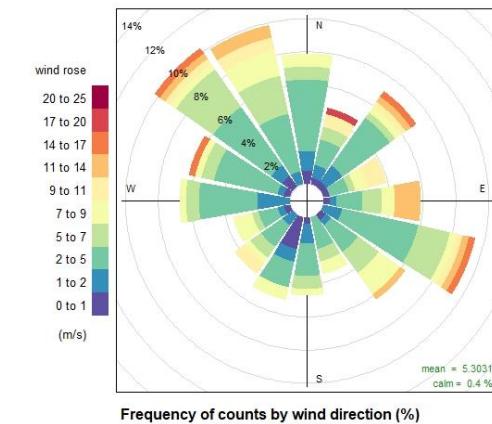


Ranchi

September

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.8	1.2	4.3	0.8	0.8	0	0	0	0	0	0
12-33		0.4	0.8	1.6	0.8	0	0.8	0	0	0.4	0	0
34-56		0.4	1.2	3.5	0.4	0.4	0.4	0.4	0.4	0	0	0
57-78		0.4	0	1.2	0.4	0.8	1.2	0	0	0	0	0
79-101		0.4	0.4	1.6	1.2	0.8	0	1.6	0	0	0	0
102-123		0	1.2	4.7	2	0.4	0.4	0.4	0.4	0	0	0
124-146		0.4	0.4	2	1.6	1.6	0	0.4	0	0	0	0
147-168		0	0	2	0.8	0.8	0	0	0	0	0	0
168-191		0.4	1.2	2	0.8	0.4	0	0	0	0	0	0
192-213		2	0.8	1.6	0	0.8	0	0	0	0	0	0
214-236		0	0.8	1.6	0.8	0.4	0.8	0	0	0	0	0
237-258		0.4	0.4	1.2	0.4	1.2	0	0	0	0	0	0
259-281		0	2	3.5	0.8	0.4	0	0	0	0	0	0
282-303		0.4	0.4	3.9	0.8	0.4	0	0	0.4	0	0	0
304-326		0.8	0.8	4.3	2.8	0.4	0.4	0.4	0.4	0	0	0
327-348		0	0.8	3.5	2.4	1.6	0.8	0.8	0	0	0	0

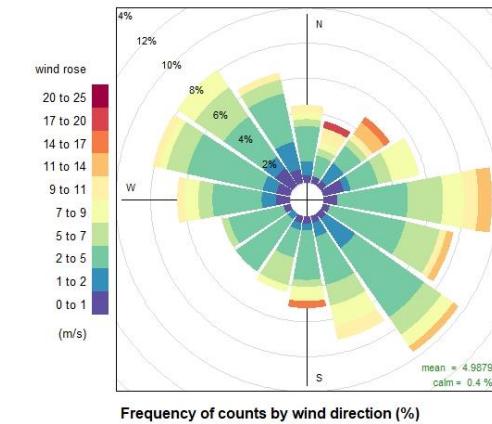


Ranchi

September

700 hPa level

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

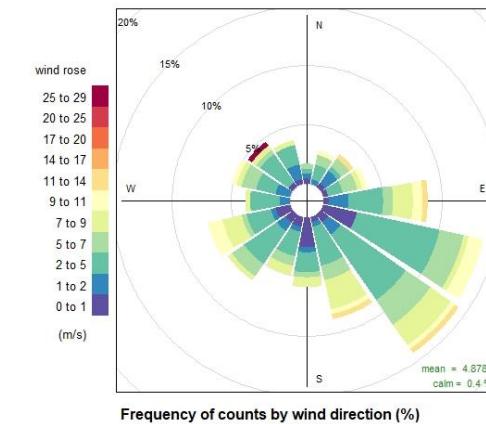


Ranchi

September

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0
12-33		0	0.4	1.3	0.8	0	0.4	0	0	0	0	0
34-56		0.4	1.3	0.4	0.8	0	0	0.4	0	0	0	0
57-78		0.4	0	1.3	1.3	0.4	0.4	0	0	0	0	0
79-101		0.4	1.7	2.9	0.8	1.7	0.8	0.4	0	0	0	0
102-123		2.9	0	7.1	2.1	0.4	1.3	0	0	0	0	0
124-146		0.8	1.3	6.7	2.5	2.1	0.4	0.4	0	0	0	0
147-168		0.4	0.4	3.4	1.3	2.5	0.4	0.4	0	0	0	0
168-191		2.5	0.4	1.7	0.4	0.8	0	0	0	0	0	0
192-213		0.8	0.4	2.1	0.8	0.8	0	0	0	0	0	0
214-236		0.8	0.8	3.4	1.3	0.4	0	0	0	0	0	0
237-258		1.3	0.4	2.1	0.4	1.7	1.3	0	0	0	0	0
259-281		0	0.8	2.5	0	0.4	0	0	0	0	0	0
282-303		0	1.3	1.7	1.3	0.4	0.4	0	0	0	0	0
304-326		0.4	0	2.9	0.4	0.4	0	0	0	0	0	0.4
327-348		0.4	1.3	1.7	0	0.4	0	0	0	0	0	0

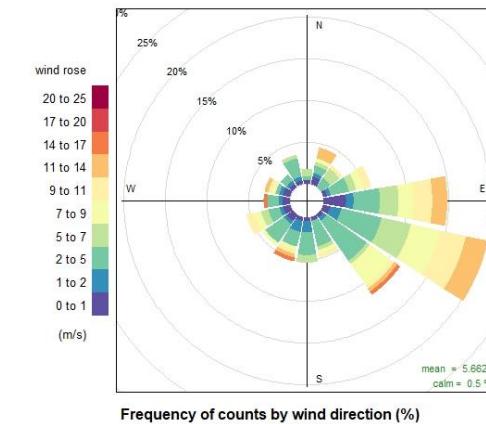


Ranchi

September

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0.5	0	0.5	0.9	0	0	0	0	0	0	0
12-33		0.9	0.5	0.9	0.5	0.5	0	1.4	0	0	0	0
34-56		0	0	1.4	1.4	0	0.5	0	0	0	0	0
57-78		0.5	0.5	2.3	0.9	0.9	0.9	0	0	0	0	0
79-101		2.7	0.9	3.2	2.3	1.8	2.3	1.8	0	0	0	0
102-123		0.9	1.4	5	3.6	3.6	3.2	2.7	0	0	0	0
124-146		0.5	0.5	5.9	0.5	3.2	0.5	0.5	0.5	0	0	0
147-168		0	0	3.2	0.5	0.5	0.5	0	0	0	0	0
168-191		0.9	1.4	2.7	0.9	0	0	0	0	0	0	0
192-213		0.5	1.4	1.8	0	0.5	0.5	0.5	0.5	0	0	0
214-236		0.9	0.5	2.7	0	0.5	0	0	0	0	0	0
237-258		0.9	0.5	1.4	0.9	0.9	0.9	0	0	0	0	0
259-281		0.9	0.5	1.4	0	0	0	0	0.5	0	0	0
282-303		0.9	0.5	0.5	0	0.5	0.5	0.5	0	0	0	0
304-326		0.5	0.5	0.9	0	0	0	0	0	0	0	0
327-348		0.5	0.5	2.3	0.5	0	0	0	0	0	0	0

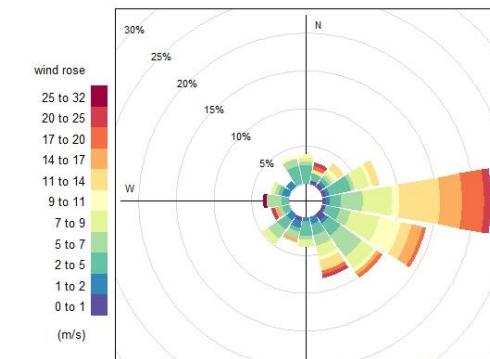


Ranchi

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	2.4	0.5	0.5	0.5	0	0	0	0	0
12-33		0.5	0	1	0	0.5	0	0	0	0.5	0.5	0
34-56		0.5	0.5	0.5	0.5	0.5	0.5	1	0	0	0	0
57-78		0.5	0.5	2.9	0.5	2	0.5	1	0	0	0	0
79-101		0.5	0.5	1.5	2.9	3.9	1	5.4	2.9	2.9	1	0
102-123		0.5	0	2	1.5	3.9	2.9	1.5	1.5	0.5	0	0
124-146		1	0.5	2	3.4	2	0.5	0	0.5	0.5	0	0
147-168		0	1	1.5	1.5	1.5	0.5	1.5	0	0.5	0.5	0
168-191		0	0.5	2	0.5	1	0	0	0	0	0	0
192-213		0.5	1	0.5	1	0	0	0	0.5	0	0	0
214-236		0	1	1.5	1.5	1	0	0	0	0	0	0
237-258		0	0	1	0.5	0	0	0	0.5	0	0.5	0
259-281		0	0	1	2	0	0	0	0	0	0	0.5
282-303		0	1	0.5	0.5	0.5	0	0	0	0	0	0
304-326		0	1	0	0	0	0	0	0	0	0	0
327-348		0	0	2.4	1	0	0.5	0	0	0	0	0

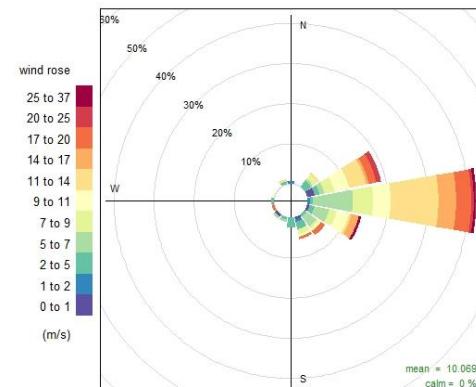


Ranchi

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	0.6	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	1.9	0.6	1.3	0	0.6	0	0	0	0
57-78		1.9	0	1.3	1.3	2.5	3.8	4.4	0.6	1.9	1.3	0
79-101		0	0.6	0.6	10.1	5	4.4	11.9	4.4	3.8	0.6	0.6
102-123		0.6	0	1.3	3.8	1.9	3.1	0.6	1.9	0	0	0.6
124-146		0	0	0.6	3.1	0.6	0.6	0	0	1.3	0	0
147-168		0.6	0.6	1.3	0	1.3	0.6	0	0	0.6	0	0
168-191		0	0	3.1	0	0	0	0	0	0	0	0
192-213		0	0	0.6	0.6	0	0	0	0	0	0	0
214-236		0.6	0	0	0.6	0	0	0	0	0	0	0
237-258		0	0	0	0	0	0	0	0	0.6	0	0
259-281		0	0	0.6	0	0	0	0	0	0	0	0
282-303		0	0	0	0	0	0.6	0	0	0	0	0
304-326		0	0	0	0	0	0	0	0	0	0	0
327-348		0	0	0.6	0	0	0	0.6	0	0	0	0



Ranchi

October

1000 hPa level

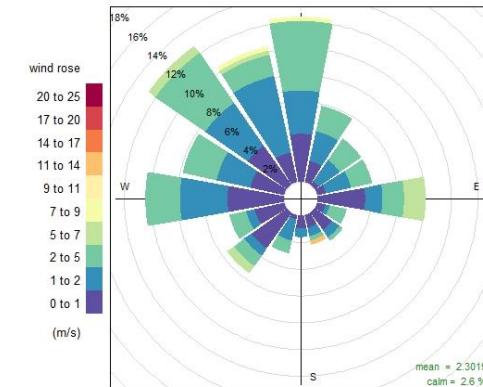
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

October

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		3.6	3.2	5.2	0	0.3	0	0	0	0	0	0
12-33		1.6	2.3	1.9	0	0	0	0	0	0	0	0
34-56		0.3	1.9	1.9	0	0	0	0	0	0	0	0
57-78		0.6	1.9	1.6	0	0	0	0	0	0	0	0
79-101		3.6	1.3	1.6	1.6	0	0	0	0	0	0	0
102-123		0.6	0.3	1.3	0	0	0	0	0	0	0	0
124-146		1.6	0.6	0.3	0	0	0	0	0	0	0	0
147-168		1	0.6	0.3	0	0	0	0.3	0	0	0	0
168-191		1	0.6	0	0	0	0	0	0	0	0	0
192-213		0.3	1.6	1	0	0	0	0	0	0	0	0
214-236		3.2	0.6	1	0.6	0	0	0	0	0	0	0
237-258		2.3	0.6	1.3	0	0	0	0	0	0	0	0
259-281		4.2	3.6	2.6	0	0	0	0	0	0	0	0
282-303		2.6	2.6	2.6	0	0	0	0	0	0	0	0
304-326		3.6	3.9	4.5	0.6	0	0	0	0	0	0	0
327-348		2.3	5.8	1.6	0.3	0.3	0	0	0	0	0	0

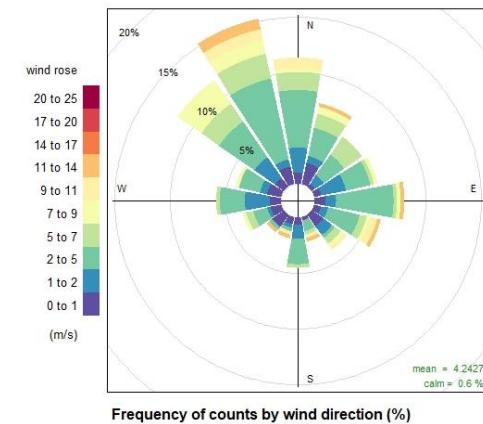


Ranchi

October

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1	2.3	5.2	1.6	0.3	1	0	0	0	0	0
12-33		1.9	0.6	2.6	1.3	0.6	0	0.3	0	0	0	0
34-56		0.3	1	2.3	1.9	0	0	0	0	0	0	0
57-78		0.6	2.3	2.3	0.3	0.3	0	0	0	0	0	0
79-101		1	1	5.2	0.3	0.3	0	0.3	0	0	0	0
102-123		0.6	0.6	2.9	0.6	0.3	0.6	0.3	0	0	0	0
124-146		1.3	1	0.3	0.6	0.3	0.3	0	0	0	0	0
147-168		0.3	0	1	0.3	0	0.3	0.3	0	0	0	0
168-191		0.6	1.3	2.3	0.3	0	0	0	0	0	0	0
192-213		0.6	0.3	0.3	0	0	0.3	0.3	0	0	0	0
214-236		1.3	0	0.3	0	0	0	0.3	0	0	0	0
237-258		1	0.3	1.3	0.6	0.3	0	0	0	0	0	0
259-281		1	2.3	2.3	0.3	0	0	0	0	0	0	0
282-303		1.3	0.6	1.9	0	0.3	0	0	0	0	0	0
304-326		1	2.3	3.9	1.9	2.6	0	0	0	0	0	0
327-348		1.6	0.6	7.4	2.3	1.3	1	1	0	0	0	0

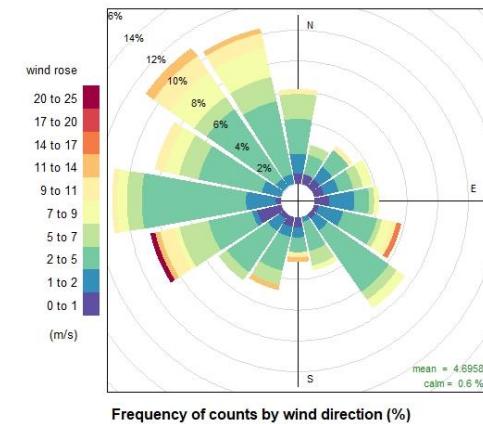


Ranchi

October

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.6	1.3	2.3	1.6	0	0.3	0	0	0	0	0
12-33		0.6	0	1.3	0.6	0	0	0	0	0	0	0
34-56		0.6	1	1.3	0	0	0.3	0	0	0	0	0
57-78		0.6	1	1	0.6	0.6	0	0	0	0	0	0
79-101		1	1.6	1	0.3	0.3	0	0	0	0	0	0
102-123		0.3	1.6	2.3	0.3	0.6	0.3	0	0.3	0	0	0
124-146		0.3	1	4.9	0.6	0.6	0	0	0	0	0	0
147-168		0	0.3	1.9	1	0.3	0	0	0	0	0	0
168-191		0.6	0.6	1	0	0	0.3	0.3	0	0	0	0
192-213		0.6	0.6	2.3	1	0	0	0.3	0	0	0	0
214-236		0.3	1	3.2	0.6	0	0	0	0	0	0	0
237-258		1.6	0.3	2.9	1.9	0.3	1	0.3	0	0	0.3	0
259-281		0.3	1.9	6.8	1	0.6	0.3	0	0	0	0	0
282-303		0	1.3	4.2	1.3	1	0.6	0	0	0	0	0
304-326		0	0.6	5.5	1	1.9	1.3	0.6	0	0	0	0
327-348		0	0.6	4.9	1.6	1.9	1	0.3	0	0	0	0

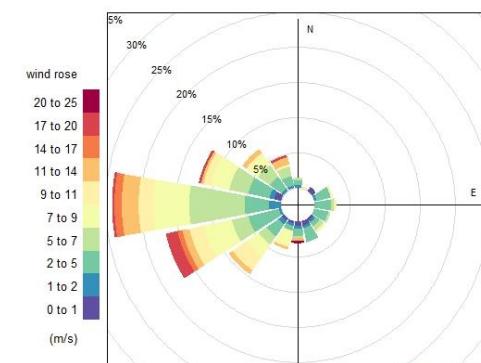


Ranchi

October

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	2	0	0.3	0.7	0.3	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0.3	0	0	0	0	0
34-56		0.7	0	0	0	0	0	0	0	0	0	0
57-78		0	0.3	2.1	0	0	0.3	0	0	0	0	0
79-101		0	0	2.4	0.3	0	0.3	0	0	0	0	0
102-123		0	0	2.1	0.3	0	0	0	0	0	0	0
124-146		0.3	0.3	0.7	0.7	0	0.3	0	0	0	0	0
147-168		0.7	0.3	2.1	0	0	0	0	0	0	0	0
168-191		0.7	0.3	1	0.3	0	0	0.3	0	0	0.3	0
192-213		0.3	0.3	0.7	0	2.1	0.3	0.3	0	0	0	0
214-236		0.3	0.7	2.1	1.4	2.1	2.4	0.7	0	0	0	0
237-258		0	0.3	4.5	2.4	4.1	2.1	1	0.7	1.7	0	0
259-281		0	1.7	3.4	7.9	5.2	2.1	2.4	1	0.3	0	0
282-303		1	0.7	3.1	2.7	2.7	1	0.3	0	0.3	0	0
304-326		0	0.3	2.1	2.1	1.7	0.3	0.7	0	0	0	0
327-348		0	0.3	1.4	1.4	0	0.3	1	0	0.3	0	0

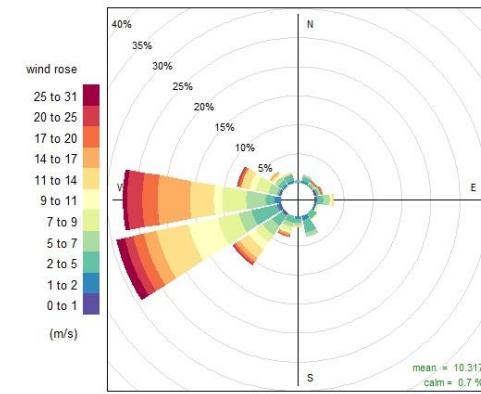


Ranchi

October

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0	0.4	0	0	0	0	0	0	0	0
12-33		0	0.4	0.7	0.4	0	0	0	0	0	0	0
34-56		0	0	0.4	0.4	0	0	0	0	0.4	0	0
57-78		0.4	0	0.4	0.4	0	0	0	0	0.4	0	0
79-101		0.4	0	1.1	1.1	0	0.4	0.4	0	0	0	0
102-123		0	0.4	0	0	0.4	0	0	0	0	0	0
124-146		0	0	1.1	0	0	0.4	0	0	0	0	0
147-168		0	0.7	2.2	0.7	0	0	0	0	0	0	0
168-191		0	0.4	0.7	0.4	0	0	0.4	0	0	0	0
192-213		0	0	1.1	0.7	0.7	0.4	0	0.4	0.4	0	0
214-236		0.4	0	2.2	1.9	1.5	1.5	1.9	0.7	0.4	0.4	0
237-258		0.4	0.4	4.5	2.2	3.7	5.2	5.6	2.2	1.9	1.5	1.5
259-281		0	1.1	1.5	3.4	4.1	1.5	4.1	5.6	2.6	2.6	0.7
282-303		0.4	0	0.4	1.5	2.2	1.1	1.5	0	0.4	0.4	0
304-326		0	0.4	0.7	0.7	0	0.4	0.4	0.4	0	0	0
327-348		0	0.4	1.1	0	0	0	0.4	0	0	0	0

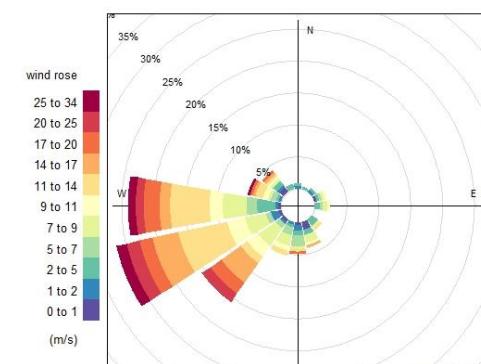


Ranchi

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	0.4	0.4	0	0	0	0	0	0	0	0
12-33		0	0	0.4	0	0	0	0	0	0	0	0
34-56		0	0.4	0.4	0	0	0	0	0	0	0	0
57-78		0.4	0	0.4	0.4	0.4	0.4	0	0	0	0	0
79-101		0	0	0.8	0.4	0.8	0.4	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	1.2	0	0.4	0	0.4	0	0	0	0
147-168		1.2	0	0.8	0	0.8	0.4	0	0.4	0	0	0
168-191		0.4	0.8	0.8	1.7	0.8	0	0.4	0	0.4	0	0
192-213		0	0.4	0.4	1.2	1.7	0.8	0.8	0	0	0	0
214-236		0.4	0.4	0	0.8	3.3	2.1	1.2	3.7	2.1	1.7	0
237-258		0.4	1.2	0	0.8	3.3	2.9	7.9	4.1	2.1	2.1	1.7
259-281		0.4	0.4	2.9	1.7	3.7	2.1	6.2	1.7	2.5	1.2	1.2
282-303		0	0.4	0.4	0.8	0.4	0.8	1.2	0.4	0.4	0	0.4
304-326		0.8	0.4	0.8	0	0.4	0.4	0.4	0.4	0.4	0	0
327-348		0	0	0.8	0	0	0	0	0	0	0	0

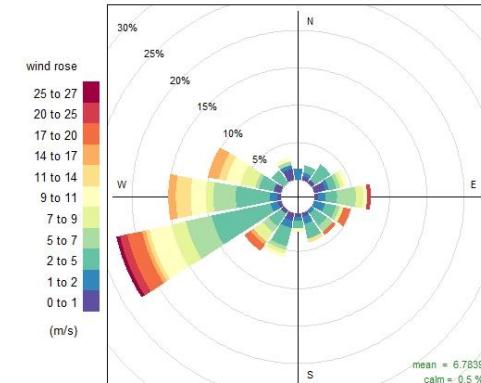


Ranchi

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	1	0	1.5	0	0	0	0	0	0	0	0	0
12-33		0.5	0.5	1	0	0	0	0	0	0	0	0
34-56		0.5	0	2.5	0	0	0	0	0	0	0	0
57-78		1.5	0.5	1	0.5	0.5	0.5	0	0	0	0	0
79-101		0.5	1	1.5	2.5	1	0.5	0	0	0	0.5	0
102-123		0	1.5	1.5	0.5	0.5	0	0	0	1	0	0
124-146		0	0.5	2	1	0	0	0	0	0.5	0	0
147-168		0	1	2	0	0	0	0.5	0	0	0	0
168-191		1	0.5	1	0	0	0.5	0	0	0	0	0
192-213		1	1	2.5	0.5	0.5	0.5	0	0	0	0	0
214-236		0.5	0	2	1	1.5	0	0	0.5	1	0	0
237-258		0.5	1	8	3.5	2	3	0.5	0.5	2	1	0.5
259-281		0.5	1	4.5	3	1	2	2	1	0	0	0
282-303		1	0	2	0.5	2	2	1	1.5	0	0	0
304-326		0	0	2	0	0	0	0	0	0	0	0
327-348		1.5	0.5	0	0.5	0	0.5	0	0	0	0	0



Ranchi

November

1000 hPa level

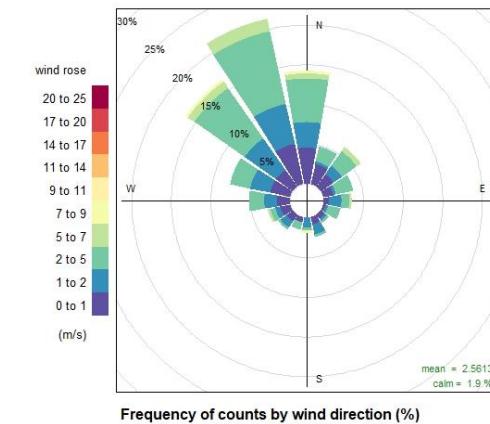
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

November

925 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		4.5	3.2	5.5	0.6	0.3	0	0	0	0	0	0
12-33	2	2.6	0.3	1.9	0	0	0	0	0	0	0	0
34-56		1.9	1.3	2.3	0.6	0	0	0	0	0	0	0
57-78		1.3	0.3	2.3	0	0	0	0	0	0	0	0
79-101		0.6	1.6	1	0.3	0	0	0	0	0	0	0
102-123		0.3	0.3	1.6	0	0	0	0	0	0	0	0
124-146		0.6	0.3	0.3	0	0	0	0	0	0	0	0
147-168		1	0.6	0.3	0	0	0	0	0	0	0	0
168-191		0	1.9	0.3	0	0.3	0	0	0	0	0	0
192-213		0.6	0	1	0	0	0	0	0	0	0	0
214-236		1	1	0.3	0	0	0	0	0	0	0	0
237-258		1.3	0.6	0.6	0.3	0	0	0	0	0	0	0
259-281		1.6	1.6	1.9	0	0	0	0	0	0	0	0
282-303		2.6	2.6	2.6	0	0	0	0	0	0	0	0
304-326		2.6	4.8	7.7	1	0.3	0	0	0	0	0	0
327-348		5.2	5.2	9.4	1.6	0	0	0	0	0	0	0

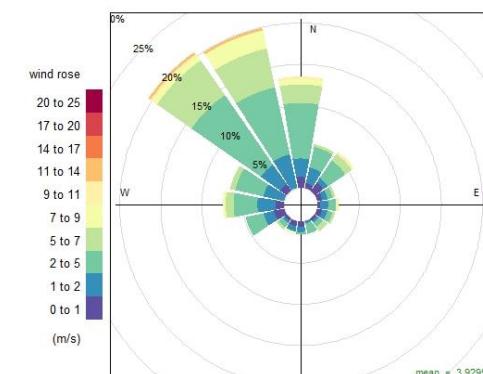


Ranchi

November

850 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		1.3	2.2	6.7	2.2	0.6	0.3	0	0	0	0	0
12-33		0.6	1.9	2.6	0.3	0	0	0	0	0	0	0
34-56		1.3	0.6	2.6	1	0	0.3	0	0	0	0	0
57-78		0.6	0.6	0.6	0.3	0	0	0	0	0	0	0
79-101		0.3	1	1	0	0	0.3	0	0	0	0	0
102-123		0.6	0.6	0.6	0.3	0	0	0	0	0	0	0
124-146		0.3	0.3	0.6	0.6	0	0	0	0	0	0	0
147-168		0	0.3	1.3	0	0	0	0	0	0	0	0
168-191		0.6	0.6	0.3	0	0	0	0	0	0	0	0
192-213		0.6	0.6	0	0	0.3	0	0	0	0	0	0
214-236		0.3	0.3	0.6	0.3	0	0	0	0	0	0	0
237-258		1.3	1.3	2.2	0	0	0	0	0	0	0	0
259-281		1	2.2	2.9	1	0.3	0	0	0	0	0	0
282-303		0	2.6	3.5	0.6	0	0	0	0	0	0	0
304-326		1	2.9	10.3	5.1	0.6	0.3	0.3	0	0	0	0
327-348		0	4.2	8.3	4.8	2.2	0	0.3	0	0	0	0

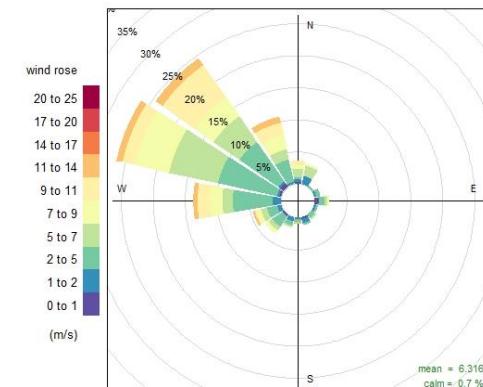


Ranchi

November

700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0.3	0.3	0.3	1.3	0.7	0.7	0	0	0	0	0
12-33		0	1.3	0	1.6	0.3	0	0	0	0	0	0
34-56		0	0	0.3	0	0	0	0	0	0	0	0
57-78		0	0.3	0.7	0	0	0	0	0	0	0	0
79-101		0.7	0	1	0.3	0.3	0	0	0	0	0	0
102-123		0	0.3	0.3	0	0	0	0	0	0	0	0
124-146		0	0	0.7	0.3	0	0	0	0	0	0	0
147-168		0.3	0.7	0.3	0	0	0	0	0	0	0	0
168-191		0	0.3	0.3	0	0	0.3	0	0	0	0	0
192-213		0	0.7	0.7	0.3	0	0	0	0	0	0	0
214-236		0.3	0	2	0.7	0.7	0	0	0	0	0	0
237-258		0	0.7	1.6	1	0.7	0.3	0.3	0	0	0	0
259-281		0	1.3	6.2	1.6	2	2	0.7	0	0	0	0
282-303		0.3	0.3	9.4	7.8	5.5	2	1	0	0	0	0
304-326		0.7	0.3	7.5	4.9	3.6	6.2	1.3	0	0	0	0
327-348		0	0.3	3.6	1.6	2.3	2	1	0	0	0	0

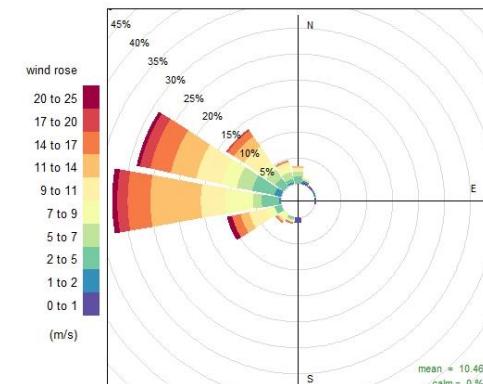


Ranchi

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	1.3	1	0	0.7	0.3	0	0	0	0
12-33		0.3	0.3	0	0.3	0.3	0	0	0	0	0	0
34-56		0.3	0	0	0	0	0	0	0	0	0	0
57-78		0	0.3	0	0	0	0	0	0	0	0	0
79-101		0.3	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	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0.3	0.3	0	0.3	0	0.3	0	0	0
214-236		0	0	0	1	0.3	0.3	0.3	0	0	0	0
237-258		0	0	1.3	0	1.7	3.4	1.7	1.7	0	1	0
259-281		0	0.3	3.4	1.7	5.4	4.7	9.7	4.4	2	1	0
282-303		0	1.3	4.4	3	3	5	5	4	2	0.7	0
304-326		0	0	2	2	2	3.4	2.3	1.3	0.3	0	0
327-348		0	0.3	0.7	1.3	1	1	0	0.3	0	0	0

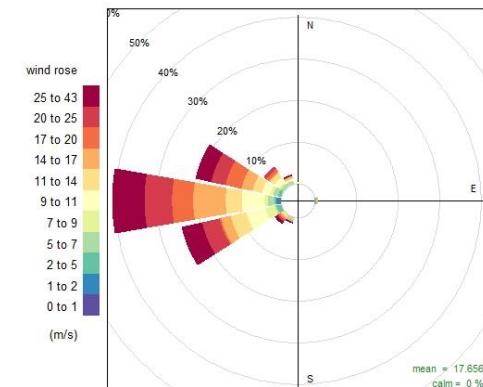


Ranchi

November

300 hPa level

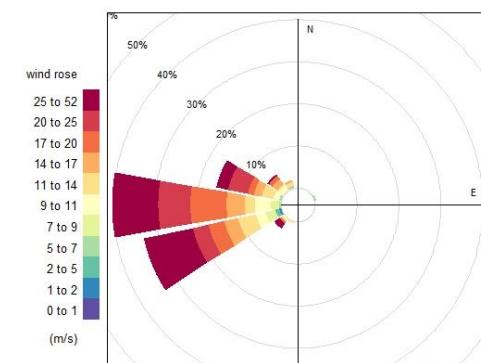
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0.4	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0.4	0	0	0	0	0.4	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	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	0.8	0	0	0	0.4	0	0	0.4
214-236		0	0	0	0	0	0.8	0.8	0.4	0.4	0.4	0.8
237-258		0	0	1.2	0.4	2.3	4.7	3.9	2.3	0.4	4.3	5.1
259-281		0	1.2	0.4	1.6	0.8	5.5	3.9	7.8	5.1	6.6	7.8
282-303		0	0	0.8	1.2	0.8	2	2.3	2.7	3.9	3.5	3.9
304-326		0	0	0	0.8	0.4	1.6	1.2	0.4	0.8	0.8	0
327-348		0	0	0	0.8	0	0.4	0.4	0.4	0	0	0.4



Ranchi

November 200 hPa level

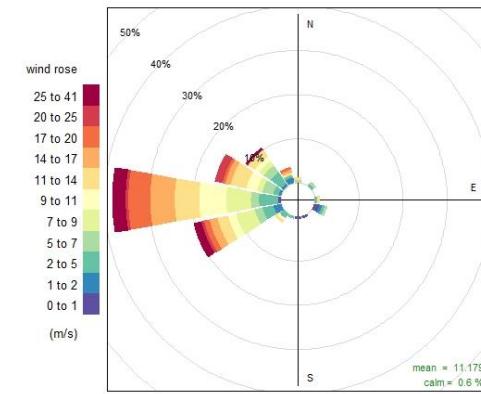
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0.5	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0.5	0	0	0	0	0
214-236		0	0	0	0	0.5	0.5	0	0.5	0	1.4	0
237-258		0	0.5	1	0	2.4	2.4	4.3	3.3	3.8	3.8	12
259-281		0	0	0	0.5	1.9	3.8	2.4	4.3	8.6	7.7	11
282-303		0	0	0	0.5	0	1.4	2.9	1.9	1.4	4.8	2.9
304-326		0	0	0	0	0	1.4	0.5	1.4	1	0	0.5
327-348		0	0	0	0.5	0	0	1	0.5	0	0	0



Ranchi

November 100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0	0	0	0.6	0	0	0.6	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0.6	0.6	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0.6	0	0	0	0.6	0	0	0	0
102-123		1.2	0.6	0.6	0.6	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0.6	0	0	0	0	0	0	0	0	0	0
168-191		0.6	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0.6	0	0	0	0	0	0	0	0
214-236		0	0	1.2	0	0	0.6	0.6	0	0	0	0
237-258		0	1.9	2.5	1.9	4.3	1.9	2.5	1.9	1.2	0.6	1.9
259-281		0.6	0	4.3	1.9	5.6	6.2	5.6	5.6	4.9	0.6	3.1
282-303		0	0.6	1.2	2.5	1.2	2.5	3.7	1.2	0.6	1.9	0
304-326		0	0.6	3.1	1.9	1.2	1.2	1.9	0	0	0	0.6
327-348		0	1.2	0.6	0	0	0	0.6	0.6	0.6	0	0



Ranchi

December

1000 hPa level

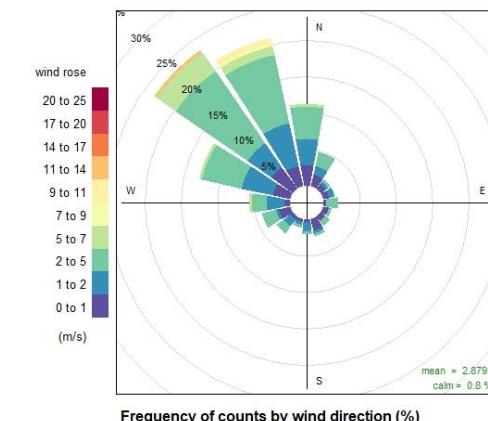
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11												
12-33												
34-56												
57-78												
79-101												
102-123												
124-146												
147-168												
168-191												
192-213												
214-236												
237-258						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

Ranchi

December

925 hPa level

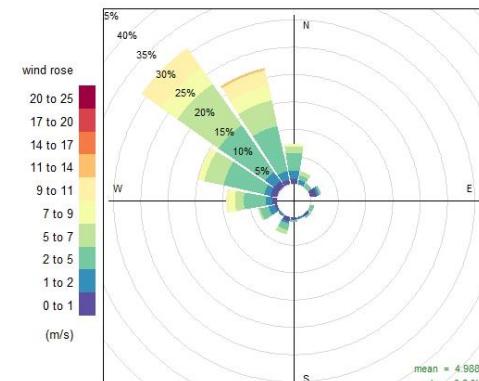
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		2.8	3.6	4.4	0.4	0	0	0	0	0	0	0
12-33	1	1.6	1.2	2	0	0	0	0	0	0	0	0
34-56		0.8	0.4	0.4	0	0	0	0	0	0	0	0
57-78		0.8	0.8	0	0	0	0	0	0	0	0	0
79-101		0.4	0	1.6	0	0	0	0	0	0	0	0
102-123		0.8	0	0.4	0	0	0	0	0	0	0	0
124-146		0.8	0	0.8	0	0	0	0	0	0	0	0
147-168		1.6	0.4	0.4	0	0	0	0	0	0	0	0
168-191		0.4	1.2	0.4	0	0	0	0	0	0	0	0
192-213		0.4	0.4	0.4	0	0	0	0	0	0	0	0
214-236		0.4	1.2	1.2	0	0	0	0	0	0	0	0
237-258		1.6	0.4	2	0	0	0	0	0	0	0	0
259-281		0.8	2.4	2	0.4	0	0	0	0	0	0	0
282-303		2.4	4.4	5.6	0.4	0	0	0	0	0	0	0
304-326		3.6	4	12	3.2	0	0	0.4	0	0	0	0
327-348		2.8	6	9.6	1.2	0.4	0.8	0	0	0	0	0



Ranchi

December 850 hPa level

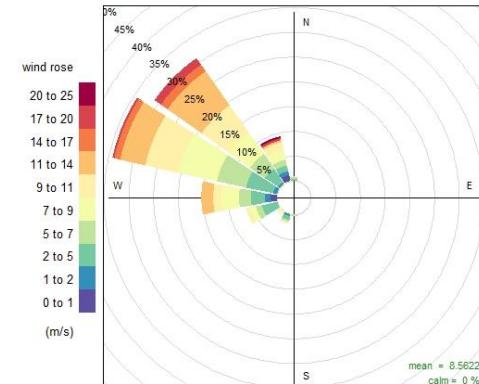
Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	1	0.8	1.6	3.2	1.2	0.4	0	0	0	0	0	0
12-33		0	0.8	0.8	0.8	0	0	0	0	0	0	0
34-56		0	0	0.8	0	0	0	0	0	0	0	0
57-78		1.2	0.4	0.4	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0.8	0	0	0	0	0	0	0	0
124-146		0.4	0	0.4	0	0	0	0	0	0	0	0
147-168		0	0.4	0	0	0	0	0	0	0	0	0
168-191		0.4	0	0.4	0	0	0	0	0	0	0	0
192-213		0.8	0.4	1.2	0.8	0	0	0	0	0	0	0
214-236		0	0.4	0	0	0	0	0	0	0	0	0
237-258		0.4	1.2	1.6	0.4	0	0	0	0	0	0	0
259-281		0.8	1.2	4	1.6	1.2	0.4	0	0	0	0	0
282-303		1.2	1.2	7.6	3.6	1.2	0	0	0	0	0	0
304-326		1.2	2	10.4	9.2	3.6	4.4	0	0	0	0	0
327-348		0.8	1.6	8.4	4.8	2.8	2.8	0.4	0	0	0	0



Ranchi

December 700 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11	0	0	0	0.4	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	0	0	0
168-191		0	0	0.4	0	0	0	0	0	0	0	0
192-213		0	0.4	0.8	0.4	0	0.4	0	0	0	0	0
214-236		0	0	0	0.4	0.4	0	0	0	0	0	0
237-258		0	0	3.2	1.2	1.2	0.8	0	0	0	0	0
259-281		1.2	1.2	2.8	2.4	3.6	1.6	2.4	0	0	0	0
282-303		0	0.8	5.6	6	8	6.8	5.2	1.2	0.4	0	0
304-326		0	0.4	3.2	3.6	5.2	6.8	8.4	1.6	1.6	0	0
327-348		1.2	0.8	1.2	1.2	2	1.6	0.4	0	0.4	0.4	0

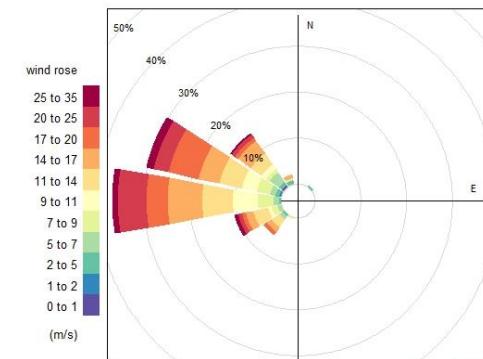


Ranchi

December

500 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	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	0.4	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0.4	0	0	0	0	0	0	0
214-236		0	0	0.4	0.8	0	0	2.1	1.3	0.8	0	0
237-258		0	0	0	0.8	1.3	0.8	3.3	1.7	0.8	0.8	0.8
259-281		0	0	0.4	1.3	3.3	5.4	6.7	7.5	4.6	6.3	1.3
282-303		0	0.4	0.8	1.3	2.9	3.3	5	4.6	6.7	3.3	1.7
304-326		0.4	0	0.8	2.5	0.8	1.3	2.9	3.3	0.8	0.8	0.4
327-348		0	0	0.8	0	0.4	0	0	0.8	0	0	0

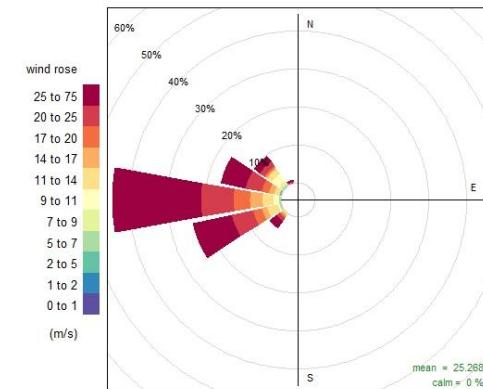


Ranchi

December

300 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0	0	0	0	0	0	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0	0	0.5	0.5	0.5	1	2.4	
237-258		0	0	0	0.5	0	0.5	2.9	1.4	2.4	5.7	10.5
259-281		0	0	0	0.5	0	1.4	2.9	3.3	4.3	8.6	23.4
282-303		0	0	0.5	0	0	0	1.4	1.4	1.9	4.3	6.7
304-326		0	0	0	0.5	1	2.4	1.4	0.5	0.5	1.4	1.9
327-348		0	0	0	0	0	0	0	0	0.5	0.5	0.5

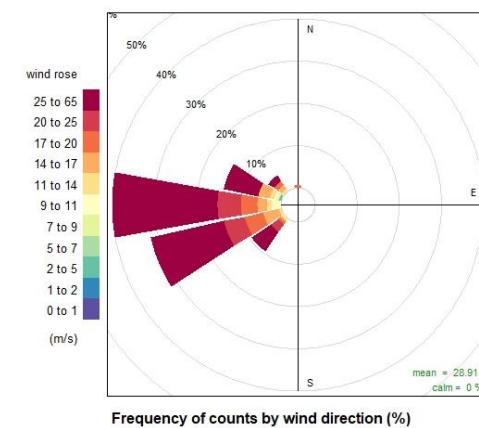


Ranchi

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	0.6	0	0
12-33		0	0	0	0	0	0	0	0	0	0	0
34-56		0	0	0	0	0	0	0	0	0	0	0
57-78		0	0	0	0	0	0	0	0	0	0	0
79-101		0	0	0	0	0	0	0	0	0	0	0
102-123		0	0	0	0	0	0	0	0	0	0	0
124-146		0	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0	0	0	0	0	0	0	0
168-191		0	0	0	0	0	0	0	0	0	0	0
192-213		0	0	0	0	0	0	0	0	0	0	0
214-236		0	0	0	0.6	0	0	0.6	0.6	2.2	5.6	
237-258		0	0	0	0	0	0.6	3.9	4.4	5	17.8	
259-281		0	0	0	0	2.2	1.1	2.2	3.9	5.6	25	
282-303		0	0	0.6	0	0.6	1.1	2.8	0	0	8.3	
304-326		0	0	0	0	0	0.6	1.1	1.1	0	1.7	
327-348		0	0	0	0	0	0	0	0	0	0	

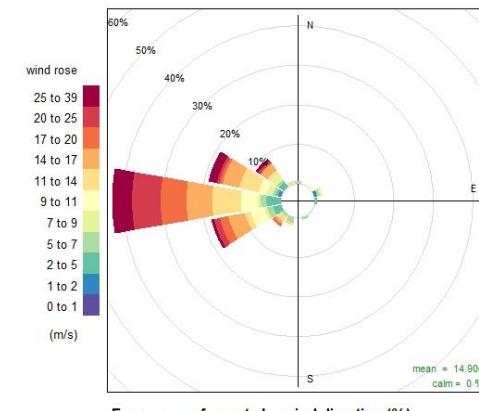


Ranchi

December

100 hPa level

Speed Direction	calm	0-1	1-2	2-5	5-7	7-9	9-11	11-14	14-17	17-20	20-25	25 +
349-11		0	0	0	0.7	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	0.7	0	0	0	0	0
57-78		0	0.7	0	0.7	0.7	0	0	0	0	0	0
79-101		0	0	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	0	0	0	0	0	0	0	0	0	0
147-168		0	0	0	0.7	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	1.4	0	0	0.7	0	0	0	0
214-236		0	0	0	0.7	0	0	1.4	0.7	0.7	0	0
237-258		0	0	2.2	1.4	0.7	3.6	1.4	4.3	2.2	1.4	0.7
259-281		0	0	3.6	1.4	0.7	4.3	7.2	6.5	6.5	7.2	5.1
282-303		0	0.7	0.7	0.7	1.4	2.2	5.1	4.3	0.7	0.7	2.2
304-326		0	0	1.4	0.7	2.2	0	0.7	2.2	0	0.7	0.7
327-348		0	0	0	0	0	0.7	0	0	0	0	0



Ranchi 42700 Station height 648 January

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	944.7	953	936	11.2	20	4.8	7.7	315	0.8	0.6	-0.6	1.1
1000	134	188	76									
950	563	620	428	12.2	15.8	9.6	7.8					
925	795	856	676	12.8	24.8	7.2	5.3	315	1.4	1	-1	3.7
900	1030	1082	963	13.4	24	1	3.3	306	2.2	1.8	-1.3	5
850	1510	1566	1444	12	23	1.2	-0.6	292	3.5	3.3	-1.3	6.9
800	2015	2082	1944	9.8	23	0	-3.4	289	5	4.7	-1.6	8.6
750	2547	2642	2450	7.5	22.2	-2.7	-6.9	286	6.5	6.2	-1.8	10.2
700	3114	3222	3019	4.8	18.8	-4.9	-10.3	281	7.8	7.7	-1.5	11.7
650	3713	3858	3600	1.8	17.4	-7.1	-13.9	276	9.5	9.4	-1	13.4
600	4355	4504	4224	-1.7	14.8	-14.3	-18	273	11.3	11.3	-0.6	15.5
550	5047	5246	4885	-5.6	7.8	-17.8	-21.6	270	13	13	-0.1	17.6
500	5783	5992	5593	-10.3	4.6	-22.1	-26.7	267	15.2	15.2	0.9	20
450	6587	6849	6359	-15.6	0.6	-27.9	-31.5	262	16.3	16.1	2.4	21.2
400	7465	7784	7195	-21.4	-7.5	-33.6	-38.2	259	17.4	17.1	3.2	22.3
350	8436	8805	8127	-27.9	-14	-41.7	-44.1	257	17.4	17	3.8	22.3
300	9528	9955	9184	-35.3	-22.5	-53.1	-51	256	16.4	15.9	4.1	21
250	10774	11255	10386	-44.2	-29.5	-58.7	-60.4	250	15.3	14.3	5.3	19
200	12234	12643	11785	-54.5	-38	-66.1	-69.6	245	11	10	4.7	13.8
175	13078	13520	12687	-59.9	-45.8	-70.7	-65.9	242	9.6	8.5	4.5	12.8
150	14027	14490	13638	-65.2	-53.2	-76.7	-69.9	241	8.2	7.2	4	11
125	15116	15643	14737	-70.7	-54.9	-87.3		231	6.3	4.9	3.9	8.6
100	16424	16975	16009	-74.4	-57.5	-86.1		236	4	3.3	2.2	6.3
80	17716	18281	17320	-73.1	-57.7	-86.5		242	2.1	1.9	1	4.1
70	18503	19100	18084	-69.9	-54.5	-82.5		234	1.4	1.1	0.8	3.4
60	19396	19986	18967	-65.8	-47.9	-79.5		220	1.6	1	1.2	3.4
50	20538	21112	20034	-61.4	-47.9	-75.9		194	1.2	0.3	1.2	2.7
40	21933	22569	21398	-57	-43.3	-69.9		216	1.4	0.8	1.1	2.9
30	23764	24473	23177	-53.2	-38.9	-65.7		192	1.9	0.4	1.9	3.4
25	24922	25650	24326	-51.9	-39.4	-64.5		185	2.4	0.2	2.4	3.6
20	26389	29394	25580	-49.8	-39.1	-63.3		195	2.8	0.7	2.7	4.3
15	28206	28982	27569	-48.9	-37.7	-57.7		207	0.7	0.3	0.6	1.2
10	30869	31760	30319	-46.3	-37.7	-52.5		186	2.9	0.3	2.9	3
7	33184	33480	32647	-44.7	-40.7	-52.5						

FREEZING LEVEL

P	Height	H_max	H_min
629	4010	6320	2310

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
101	16437	-76.1

Ranchi

42700

Station height

648

February

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	943.2	953	934	14	21.4	6.2	8.9	306	0.9	0.7	-0.5	1.4
1000	118	157	60									
950	555	631	433	13.8	17.4	9.4	10.2					
925	785	855	725	15.6	25	8.4	6.7	299	1.3	1.1	-0.6	3.6
900	1020	1098	935	15.9	27.4	4.8	4.1	296	2.5	2.3	-1.1	5.4
850	1504	1583	1408	13.9	26.8	2	0.7	281	4.2	4.1	-0.8	7.2
800	2012	2117	1908	10.9	21.6	0.2	-2	279	5.9	5.8	-0.9	9
750	2543	2638	2380	7.7	17.8	-3.5	-5	278	7.6	7.5	-1	11.1
700	3111	3229	2978	4.6	15.4	-6.9	-9.1	278	9.2	9.1	-1.3	13
650	3710	3865	3551	1.2	14.7	-11.7	-13.7	276	10.7	10.6	-1.2	14.7
600	4351	4500	4167	-2.1	10	-15.5	-17.8	275	12.3	12.3	-1.1	16.8
550	5040	5204	4828	-6	6.8	-18.3	-22.7	272	14.2	14.2	-0.5	19
500	5776	5967	5539	-10.5	0.8	-24.3	-27.1	269	16.4	16.4	0.3	21.9
450	6581	6798	6316	-15.5	-1.9	-29.1	-31.6	267	17.5	17.5	0.8	23.2
400	7459	7703	7169	-21.2	-6.7	-33.1	-38.6	264	18.6	18.5	2.1	24.7
350	8433	8700	8118	-27.5	-14.5	-41.7	-44.6	260	17.9	17.6	3.1	23.7
300	9526	9864	9196	-34.8	-22.2	-47.7	-51.7	258	17.9	17.5	3.8	23.4
250	10776	11067	10462	-43.2	-28.6	-57.5	-59.6	256	16.8	16.3	4.2	21.3
200	12245	12586	11929	-53	-39.5	-66.1	-67.7	251	13.7	12.9	4.5	17.1
175	13095	13471	12772	-58.3	-44.7	-70.8	-62.3	245	10	9.1	4.2	13.4
150	14054	16651	13719	-63.5	-11.9	-74.1		236	7.6	6.3	4.2	10.9
125	15147	15680	14796	-69.2	-54.1	-83.7		227	5.7	4.2	3.9	8.7
100	16463	17047	16084	-73.9	-60.9	-85		224	3.6	2.5	2.6	6.4
80	17758	18357	17349	-73.6	-58.1	-86.1		202	2.7	1	2.5	4.7
70	18546	19129	18114	-70.9	-54.5	-83.5		192	2.4	0.5	2.3	4
60	19398	19915	19009	-66.9	-51.8	-83.5		185	2.1	0.2	2.1	3.7
50	20568	21121	20069	-62.6	-48.4	-79.3		185	2.2	0.2	2.2	3.9
40	21942	22537	21431	-58.5	-43.8	-78.9		189	1.3	0.2	1.3	2.3
30	23755	24406	23215	-54.5	-38	-72.9		214	1.4	0.8	1.2	2.4
25	24918	25575	24344	-52.2	-36.3	-67.5		216	1.4	0.8	1.1	2.5
20	26356	27020	25805	-50.1	-37.9	-64.1		238	1.3	1.1	0.7	2.6
15	28246	28857	27590	-48.1	-37.3	-62.1		195	2.4	0.6	2.3	3.5
10	30978	31645	30098	-45.6	-35.6	-61.9		188	4.4	0.6	4.4	6
7	33783	34085	33023	-40.9	-37	-55.7		205	19.7	8.4	17.8	20

FREEZING LEVEL

P	Height	H_max	H_min
638	3895	5980	1960

FIRST TROPOPAUSE

P	Height	Temp

SECOND ROPOPAUSE

P	Height	Temp
98	16660	-75.8

Ranchi

42700

Station height

648

March

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	940.8	988	838	18.5	27.2	11.4	10.5	304	1.1	0.9	-0.6	1.5
1000	90	144	27									
950	535	588	477									
925	766	827	681	20.1	27.8	11.4	8	302	1.5	1.3	-0.8	3.8
900	1005	1062	771	20.4	31.6	9.6	5	302	2.8	2.4	-1.5	5.9
850	1495	1561	1271	18	29	6.8	2	289	4.2	4	-1.4	7.5
800	2011	2096	1911	14.7	25	5.2	-0.6	280	5.8	5.7	-1	9.3
750	2548	2655	2448	10.7	23.6	1	-3.2	277	7.2	7.1	-0.9	11
700	3122	3241	3025	6.6	19.4	-1.7	-6.2	276	8.3	8.3	-0.8	12.7
650	3722	3858	3597	2.5	13.8	-8.3	-9.9	278	9.4	9.3	-1.3	14
600	4367	4508	4242	-1.4	8.6	-13.3	-14.8	277	10.2	10.1	-1.2	15.2
550	5057	5199	4900	-5.4	6.2	-18.5	-20	276	11.3	11.2	-1.1	16.6
500	5797	5972	5629	-9.9	2.8	-20.7	-24.5	274	12.7	12.7	-0.8	18
450	6602	6814	6417	-15.1	-1.7	-26.5	-30.2	270	14.4	14.4	0.1	20
400	7483	7721	7278	-21.1	-7.1	-32.5	-35.4	267	15.1	15.1	0.9	21.1
350	8457	8770	8208	-27.7	-15.1	-38.5	-42.2	264	15.9	15.8	1.8	22.6
300	9549	9865	9254	-35.1	-23.9	-46.5	-49.5	260	17.6	17.3	3	24.3
250	10797	11170	10465	-43.5	-28.5	-57.5	-57.5	256	16.3	15.8	3.9	22.3
200	12269	12690	11900	-52.7	-34.1	-69.3	-65.5	254	14.5	13.9	4	19.4
175	13122	13563	12699	-57.7	-43.1	-68.9	-58.4	250	11.2	10.5	3.9	15.6
150	14082	14541	13633	-63.1	-48.7	-78.1	-73.9	247	8.6	7.9	3.3	12.6
125	15186	15654	14732	-68.6	-52	-81.5		241	5.8	5.1	2.8	9.9
100	16501	16976	16041	-73.3	-55.4	-87.1		239	4.3	3.7	2.2	7.5
80	17796	18302	17338	-73.5	-55.5	-85.7		227	2.2	1.6	1.5	5.3
70	18583	19112	18079	-71.4	-52.7	-84.7		233	1.5	1.2	0.9	4.3
60	19476	19998	18937	-67.4	-48.3	-81.5		231	1.3	1	0.8	3.9
50	20615	21150	20140	-61.5	-41.1	-77.6		194	0.8	0.2	0.8	3.7
40	22010	22564	21545	-56.7	-39.3	-75.2		180	1	0	1	3.7
30	23841	24479	21749	-52.4	-36.9	-70.7		217	1	0.6	0.8	3.9
25	25010	25702	24595	-50.7	-34.9	-64.9		193	0.9	0.2	0.9	4.5
20	26440	27227	25983	-49.1	-37.5	-62.6		205	1.4	0.6	1.3	5.3
15	28311	28879	27797	-46.7	-36.8	-60.5		203	1.3	0.5	1.2	6.1
10	30983	31703	30525	-44.1	-35	-56.8		186	4.8	0.5	4.8	9.6
7	33565	34149	32812	-39.9	-29.4	-50.3		184	13.1	1	13.1	24.4

FREEZING LEVEL

P	Height	H_max	H_min
620	4118	6430	2880

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
97	16714	-75.4

Ranchi

42700

Station height

648

April

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	938.2	948	930	23	32.8	9.4	13	270	0.9	0.9	0	1.6
1000	53	122	-3									
950	504	564	451									
925	745	811	668	24.3	36.2	17.2	11	243	1.3	1.2	0.6	3.4
900	988	1071	917	24.8	37.6	9.4	7.9	270	2.3	2.3	0	5.7
850	1486	1567	1410	22.2	32.4	8	3.9	284	2.9	2.8	-0.7	6.9
800	2008	2092	1933	18.4	27.2	6.6	1	281	3.8	3.7	-0.7	8
750	2551	2649	2451	14	22.8	4.8	-1.5	276	5.1	5.1	-0.5	9.5
700	3132	3220	3025	9.2	19.2	-0.3	-3.9	273	6.6	6.6	-0.4	11.1
650	3736	3866	3600	4.2	13.6	-5.5	-6.9	275	7.5	7.5	-0.6	12.4
600	4386	4492	4275	-0.3	11.6	-10.7	-12	277	7.9	7.8	-0.9	13.1
550	5077	5232	4908	-4.3	5.4	-15.7	-18.2	277	8.1	8	-1	13.3
500	5821	5992	5668	-8.6	2	-21.7	-23.8	273	8.9	8.9	-0.4	14
450	6630	6803	6437	-13.5	15	-26.5	-28.8	267	9.9	9.9	0.5	15.3
400	7516	7697	7287	-19.7	-8.1	-50.1	-34.4	262	11.7	11.6	1.7	17.1
350	8493	8712	8218	-26.6	-15.5	-67.1	-40.6	255	12.7	12.3	3.2	18.4
300	9586	9812	6545	-34.1	-23.3	-69.5	-49	253	15.2	14.5	4.4	21
250	10843	11115	10251	-42.8	-28.1	-66.1	-57.4	248	15.4	14.3	5.7	21.1
200	12316	12667	11941	-52.5	-40.5	-67.9	-65.6	245	15.4	14	6.4	20.5
175	13167	13534	12800	-57.7	-43.1	-69	-62	244	13	11.7	5.7	17.2
150	14126	14511	13730	-63.2	-50.3	-75.7	-61.9	242	10.4	9.2	4.8	14.6
125	15228	15662	14795	-68.8	-53.5	-82.7		240	7.6	6.6	3.8	11.3
100	16541	17031	16053	-73.4	-57.3	-85.3		247	5.3	4.9	2.1	8.3
80	17840	18387	17307	-72.9	-55.1	-86.1		241	1.8	1.6	0.9	5.6
70	18631	19203	18080	-69.8	-50.7	-83.9		202	1.1	0.4	1	5
60	19462	20133	18942	-65	-48.5	-80.1		171	0.6	-0.1	0.6	4.7
50	20675	21320	20006	-59.8	-45.3	-74.1		124	0.4	-0.3	0.2	4.7
40	22074	22798	21358	-54.9	-37.9	-76.1		139	0.9	-0.6	0.7	4.1
30	23915	24731	23237	-50.2	-33.3	-65.5		143	1	-0.6	0.8	4.5
25	25102	26086	24370	-48	-30.1	-64.7		139	1.1	-0.7	0.8	4.4
20	26549	27517	25801	-46.1	-34.7	-59.7		122	0.9	-0.8	0.5	5
15	28442	29544	27671	-44	-32.5	-56.1		159	1.9	-0.7	1.8	6
10	31151	31591	30496	-41.3	-31.5	-52.3		155	5.5	-2.3	5	8.2
7	33603	33968	32746	-38.7	-34.3	-49.9		165	13.7	-3.6	13.2	14.3

FREEZING LEVEL

P	Height	H_max	H_min
604	4353	6200	3070

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
96	16847	-75.5

Ranchi

42700

Station height

648

May

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	935.2	968	922	25.1	34	14.6	17.8	236	1.1	0.9	0.6	1.8
1000	25	84	-42									
950	476	529	405									
925	713	807	636	25.7	38.3	17.6	17.1	234	1.9	1.5	1.1	3.1
900	961	1058	866	26	37.1	14.2	14.1	242	3.4	3	1.6	5.6
850	1462	1563	1368	24	32.7	11.6	9.8	266	3	3	0.2	6.3
800	1988	2095	1881	20.4	29.2	9	6.5	291	3.3	3.1	-1.2	7.1
750	2536	2669	2424	16.2	26.1	5	3.3	299	3.9	3.4	-1.9	8.3
700	3121	3242	3001	11.4	23.4	-0.7	-0.1	299	4.5	3.9	-2.2	9.8
650	3729	3853	3603	6.5	21.5	-9.1	-3.8	297	4.9	4.4	-2.2	10.4
600	4384	4528	4222	1.8	16.3	-10.7	-8.2	296	5	4.5	-2.2	10.6
550	5082	5230	4886	-2.2	7.4	-13.1	-13.4	291	4.5	4.2	-1.6	10
500	5832	6008	5611	-6	3.2	-14.5	-20	283	4.4	4.3	-1	9.6
450	6649	6807	6406	-10.6	0.6	-20.5	-25.4	272	5.1	5.1	-0.2	10
400	7547	7763	7278	-15.8	-4.9	-29.9	-31.1	263	5.8	5.8	0.7	11
350	8540	8736	8239	-21.9	-10.9	-33.7	-37.7	256	7.5	7.3	1.8	12.5
300	9660	9914	9310	-29.3	-16.4	-41.1	-45.8	251	9	8.5	2.9	13.6
250	10937	11216	10531	-38.7	-27.3	-57.2	-55.5	246	9.5	8.7	3.9	13.8
200	12432	12765	11954	-49.8	-38.5	-60.9	-65.8	240	10.1	8.8	5	13.4
175	13292	13660	12769	-56.3	-43.3	-68.9	-60	241	8.9	7.8	4.3	12.2
150	14254	14663	13693	-63.1	-50.3	-77.7	-65.3	240	7.3	6.3	3.7	10.5
125	15355	15780	15006	-70.3	-57.1	-87		246	4.8	4.4	2	8.5
100	16659	17296	16224	-75.7	-61.7	-89.6		265	1.2	1.2	0.1	6.9
80	17948	18609	17518	-73.6	-51.9	-85.5		47	1.6	-1.2	-1.1	6.4
70	18732	19430	18311	-69.5	-48.1	-84.1		50	2.5	-1.9	-1.6	6.7
60	19559	19978	19158	-64.1	-44.1	-80.7		54	3.2	-2.6	-1.9	7.3
50	20786	21455	20015	-58.6	-40.1	-75.9		59	3.5	-3	-1.8	7.1
40	22199	22904	21486	-53.4	-33.5	-75.1		51	4	-3.1	-2.5	7.2
30	24049	24786	23453	-48.7	-33.9	-71.3		49	3.8	-2.9	-2.5	7.7
25	25234	26040	24699	-46.5	-32.2	-67.5		53	3.5	-2.8	-2.1	7.9
20	26695	27541	26159	-44.4	-32.8	-62.9		46	3.2	-2.3	-2.2	7.9
15	28561	29503	28003	-42.3	-30.3	-56.9		23	2.6	-1	-2.4	8.1
10	31253	31930	30641	-41.5	-34.2	-53.3		349	1.5	0.3	-1.5	8.2
7	33552	34428	32783	-39.4	-30.5	-53.3		22	3.5	-1.3	-3.2	7.5

FREEZING LEVEL

P	Height	H_max	H_min
577	4713	6180	3080

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
96	16887	-76.3

Ranchi

42700

Station height

648

June

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	931.6	940	916	25.3	38.4	20	21.4	246	1	0.9	0.4	2.1
1000	-2	28	-55									
950	452	550	400									
925	687	754	603	25.4	31.4	19.8	20.7	227	1.9	1.4	1.3	3.1
900	930	1061	803	25	35.8	18.6	18.7	252	3.6	3.4	1.1	6.5
850	1430	1563	1298	22.8	33.4	14.5	15.1	276	2.9	2.9	-0.3	7.1
800	1955	2088	1818	19.7	30.4	10	12.1	303	2.7	2.3	-1.5	7.1
750	2506	2630	2368	16	26.7	6.8	9	316	2.9	2	-2.1	7.4
700	3089	3219	2939	12.1	23.1	2.7	5.5	320	3	1.9	-2.3	7.6
650	3705	3839	3565	8.1	18.8	0.8	1.7	319	3	2	-2.3	7.9
600	4362	4525	4221	4.3	14.4	-3.5	-2.7	313	2.3	1.7	-1.6	7.4
550	5070	5248	4927	0.6	9	-8.3	-6.2	304	1.8	1.5	-1	6.8
500	5826	6023	5690	-3.2	4.8	-11.9	-10.8	297	1.3	1.2	-0.6	6.6
450	6655	6859	6504	-7.4	0.6	-18.9	-16.3	284	0.8	0.8	-0.2	6.3
400	7562	7779	7393	-12.3	-4.1	-21.1	-22.1	256	0.8	0.8	0.2	6.3
350	8570	8794	8369	-18.5	-8.1	-34.9	-28.8	243	0.4	0.4	0.2	6.2
300	9704	9970	9466	-26.2	-17.1	-38.1	-36.8	236	0.4	0.3	0.2	6.2
250	10997	11311	10713	-36.2	-26.9	-53.3	-47.5	135	0.4	-0.3	0.3	6.7
200	12503	12887	12169	-48.5	-37.5	-66.7	-59.7	86	1.4	-1.4	-0.1	7.8
175	13367	13711	12973	-55.7	-42.1	-73.7	-59.9	81	1.8	-1.8	-0.3	7.9
150	14330	14713	13854	-63.6	-48.1	-80.9	-67.7	64	3.2	-2.9	-1.4	8.6
125	15421	15848	14935	-71.8	-56.3	-87.5		63	4.8	-4.3	-2.2	9.9
100	16717	17217	16218	-77.4	-58.3	-88.5		69	6.8	-6.4	-2.4	10.5
80	17997	18555	17501	-74.4	-53.5	-90.3		66	9.1	-8.3	-3.7	12.3
70	18781	19340	18313	-70.1	-50.1	-82.9		69	9	-8.4	-3.3	12
60	19389	19992	19273	-64.9	-42.9	-82.9		72	9.3	-8.8	-2.9	12.2
50	20829	21320	20420	-59.3	-36.9	-79.1		70	8.8	-8.3	-3	12.1
40	22228	22759	21785	-54.6	-37.6	-71.9		75	9.9	-9.6	-2.5	12.9
30	24081	24701	23567	-49.7	-33	-67.3		73	11	-10.5	-3.3	14.7
25	25259	25934	24706	-47.6	-31.1	-66.7		74	10.9	-10.5	-3.1	15.3
20	26717	27362	26103	-45.1	-29.7	-59.5		65	10.3	-9.4	-4.3	15.7
15	28610	29378	27916	-42.7	-28	-57.3		62	10	-8.8	-4.7	16.3
10	31424	31896	30930	-38.4	-29.2	-47.3		14	10.9	-2.6	-10.6	15.1
7	33986	34437	33306	-35.7	-29.2	-44.1		355	10.3	0.9	-10.3	14.7

FREEZING LEVEL

P	Height	H_max	H_min
542	5197	6750	3740

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
98	16887	-78.9

Ranchi

42700

Station height

648

July

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	931.5	940	912	24.3	30	17.2	22.7	240	0.8	0.7	0.4	2.1
1000	-3	55	-63									
950	448	504	401									
925	682	746	621	24.2	30.3	19	22.8	228	1.3	1	0.9	2.8
900	926	1005	850	23.1	31	15.2	21	246	2.4	2.2	1	5.4
850	1422	1499	1311	20.8	28.4	11.6	18	278	1.5	1.5	-0.2	6.2
800	1945	2024	1828	18.1	24.8	8.6	15.2	297	1.3	1.2	-0.6	5.9
750	2495	2600	2369	15.2	23.8	6	12.1	307	1	0.8	-0.6	5.4
700	3076	3170	2943	12.2	21.6	2	8.7	309	0.6	0.5	-0.4	5.1
650	3694	3822	3554	9.1	19	1	5	297	0.2	0.2	-0.1	5
600	4354	4732	4205	5.8	15.8	-2.7	1.1	0	0	0	0	5
550	5067	5230	4897	2.2	11.4	-7.5	-2.9	104	0.4	-0.4	0.1	5.1
500	5825	5989	5642	-1.8	7.8	-12.1	-7.4	82	0.7	-0.7	-0.1	5.3
450	6659	6812	6457	-6.3	2	-15.9	-12.7	73	1.4	-1.3	-0.4	5.4
400	7568	7739	7332	-11.5	-3.7	-22.5	-19.3	74	2.2	-2.1	-0.6	5.9
350	8579	8788	8322	-17.7	-8.9	-31.3	-26.3	75	3	-2.9	-0.8	6.3
300	9717	9942	9452	-25.6	-16.9	-42.1	-34.8	71	4.2	-4	-1.4	7.4
250	11013	11288	10653	-35.7	-25.7	-55.1	-45.9	63	5.6	-5	-2.6	9.1
200	12521	12861	12027	-48.5	-30	-70.5	-58.3	57	8.2	-6.9	-4.5	11.5
175	13384	13760	12807	-56	-39.1	-76.1	-61.5	55	9.5	-7.8	-5.5	12.8
150	14342	14722	13688	-64.2	-45.5	-79.5	-66.9	56	10.5	-8.7	-5.9	14.2
125	15430	15919	14730	-72.6	-50.9	-89.9		57	11.9	-10	-6.4	16.7
100	16725	17335	16260	-76.1	-54.1	-89.1		60	11.8	-10.2	-6	17.3
80	18023	18715	17605	-71.2	-50.1	-85.1		63	12.2	-10.8	-5.6	16.8
70	18824	19523	18434	-67.1	-51.5	-81.3		60	11.3	-9.8	-5.6	16
60	19300	20089	19334	-62.5	-48.6	-80.3		62	10.9	-9.6	-5.1	15.6
50	20892	21525	20409	-57.9	-42.5	-71.9		61	9.8	-8.6	-4.8	14.7
40	22304	22850	21758	-54.4	-41.5	-72.1		62	11.2	-9.9	-5.3	16.1
30	24147	24780	23520	-50.5	-35.3	-70.9		69	12.7	-11.9	-4.5	17.7
25	25331	25947	24653	-48.2	-34.6	-70.1		69	14.3	-13.3	-5.2	20
20	26772	27440	25884	-46.1	-26	-67.9		71	15.1	-14.3	-5	21.4
15	28607	29382	27618	-44.5	-30.1	-64.1		71	15.4	-14.6	-4.9	22.1
10	31303	31758	30379	-40	-28.5	-50.9		359	12.5	0.2	-12.5	15.5
7	33818	34319	33158	-36.7	-26.9	-47.9		346	15.3	3.8	-14.8	15.8

FREEZING LEVEL

P	Height	H_max	H_min
524	5471	6720	3850

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
104	16549	-78.2

Ranchi **42700** **Station height** **648** **August**

PRESSURE	HEIGHT	Hmax	Hmin	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	932.6	955	922	24	33.8	20	22.3	180	0.1	0	0.1	1.9
1000	12	61	-62									
950	462	512	401									
925	695	768	580	23.8	26.7	17.8	22.4	243	0.7	0.6	0.3	2.5
900	938	1020	857	22.7	28.8	17	20.7	260	1.1	1.1	0.2	4.8
850	1434	1514	1355	20.1	27.4	13.2	17.7	321	0.6	0.4	-0.5	5.4
800	1955	2034	1876	17.4	26.6	10.4	14.7	351	0.6	0.1	-0.6	5.1
750	2503	2610	2380	14.6	23.6	6.6	11.5	27	0.4	-0.2	-0.4	4.7
700	3084	3166	3001	11.7	20.2	2	7.9	63	0.4	-0.4	-0.2	4.6
650	3702	3800	3580	8.8	16.6	-1.1	4.1	104	0.4	-0.4	0.1	4.5
600	4361	4473	4262	5.5	12	-3.3	0.1	97	0.8	-0.8	0.1	4.6
550	5072	5200	4952	1.8	10	-7.1	-4.1	100	1.1	-1.1	0.2	4.8
500	5831	5968	5695	-2.3	4.8	-9.7	-8.7	101	1.6	-1.6	0.3	4.9
450	6662	6813	6505	-6.9	1.4	-14.7	-14.4	93	2	-2	0.1	5.2
400	7570	7716	7395	-12.2	-4.3	-24.1	-21.2	90	2.5	-2.5	0	5.5
350	8579	8760	8370	-18.6	-8.4	-32.9	-28.8	85	3.3	-3.3	-0.3	6.1
300	9701	9920	9463	-26.4	-16.9	-44.5	-37.2	77	4	-3.9	-0.9	6.9
250	11002	11214	10707	-36.7	-26.5	-53.9	-47.6	72	5.7	-5.4	-1.8	8.4
200	12504	12782	12147	-49.4	-37.5	-64.5	-59.7	64	7.9	-7.1	-3.4	10.9
175	13365	13685	12964	-57	-44.3	-71.1	-62.5	63	8.9	-7.9	-4.1	12.1
150	14320	14675	13883	-65.3	-51.5	-80.9	-67.9	63	9.7	-8.6	-4.4	12.8
125	15405	15833	14948	-73.3	-60.7	-86.1	-85.7	63	10.6	-9.5	-4.8	14
100	16692	17185	16251	-76	-61.1	-91.1		66	11.1	-10.1	-4.5	14.5
80	17990	18485	17539	-70.4	-56	-86.1		65	10.8	-9.8	-4.5	14.2
70	18792	19268	18323	-66.2	-51.1	-81.3		70	10.3	-9.7	-3.6	13
60	19389	20063	19234	-62.2	-47.5	-76.3		67	9.9	-9.1	-3.8	13.1
50	20868	21706	20330	-58.4	-44.3	-76.9		66	10.2	-9.3	-4.1	13.8
40	22275	22903	21689	-54.2	-39.3	-69.9		69	11	-10.3	-3.9	15.1
30	24113	24855	23562	-50.5	-31.8	-66.3		74	13.2	-12.7	-3.7	17.3
25	25277	25840	24699	-48.9	-30.9	-62.1		72	13.9	-13.2	-4.4	18.6
20	26717	27376	26095	-47.3	-26.5	-61.5		72	14.9	-14.2	-4.6	19.9
15	28581	29378	27973	-45.1	-25.3	-60.3		71	14.2	-13.4	-4.7	19.2
10	31260	32101	30688	-42.8	-26.1	-58.5		52	6.7	-5.3	-4.1	10.1
7	33520	34170	32984	-39.2	-27.1	-56.7		96	8.6	-8.6	0.9	8.6

FREEZING LEVEL

P	Height	H_max	H_min
528	5411	6940	3470

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
106	16399	-78.5

Ranchi

42700

Station height

648

September

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWP	DIR	VELO	U	V	VM
SURFACE	936.3	946	924	23.4	28.4	19	21.1	243	0.2	0.2	0.1	1.6
1000	43	95	-24									
950	491	541	424									
925	725	824	615	23.1	25.6	16.8	21.1	270	0.5	0.5	0	2.5
900	970	1097	891	22.3	29.2	13.8	19.6	270	1	1	0	4.4
850	1465	1582	1385	19.7	26.2	12.2	16.1	324	0.9	0.5	-0.7	5
800	1985	2100	1905	16.8	22.8	8.6	12.5	330	0.8	0.4	-0.7	4.9
750	2530	2700	2455	14	21	6	8.9	323	0.5	0.3	-0.4	4.4
700	3111	3232	3040	10.9	18	-1.7	5.5	284	0.4	0.4	-0.1	4.4
650	3725	3867	3605	7.7	14.8	-1.5	1.5	231	0.6	0.5	0.4	4.4
600	4381	4510	4302	4.3	13.4	-5.3	-1.9	220	0.8	0.5	0.6	4.4
550	5089	5285	4995	0.6	9.8	-9.1	-6.1	210	0.8	0.4	0.7	4.5
500	5843	5982	5732	-3.5	3.8	-14.3	-11.2	187	0.8	0.1	0.8	4.4
450	6670	6840	6505	-8.2	0.6	-17.3	-16.8	158	0.5	-0.2	0.5	4.4
400	7575	7722	7392	-13.6	-5.7	-24.5	-23.6	146	0.7	-0.4	0.6	4.3
350	8577	8747	8412	-20	-11.3	-33.1	-30.5	111	0.9	-0.8	0.3	4.5
300	9705	9927	9479	-28.1	-18.9	-40.1	-38.9	104	1.2	-1.2	0.3	4.9
250	10986	11227	10765	-38.5	-28.5	-48.7	-49.7	90	1.5	-1.5	0	5.7
200	12474	12905	12079	-51.2	-39.9	-63.3	-62	76	2.5	-2.4	-0.6	6.9
175	13328	13709	12962	-58.4	-44.7	-69.9	-63.1	71	3.4	-3.2	-1.1	7.2
150	14279	14627	13928	-66.1	-53.5	-79.9	-70.6	70	4.1	-3.9	-1.4	7.6
125	15362	15740	14983	-73.5	-52.5	-89.3	-85.7	70	4.8	-4.5	-1.6	8.2
100	16653	17087	16277	-76.1	-61.9	-89.3		67	5.2	-4.8	-2	8.4
80	17955	18439	17502	-70.2	-48.8	-89.9		63	6.3	-5.6	-2.9	9.1
70	18757	19316	18192	-66.2	-52.1	-83.3		63	6.6	-5.9	-3	9.2
60	19455	20114	19149	-61.9	-46.9	-74.5		63	6.5	-5.8	-2.9	9.4
50	20834	21416	20216	-58	-46.3	-71.3		64	7	-6.3	-3.1	10.1
40	22241	22787	21546	-54.4	-37	-69.5		61	7.9	-6.9	-3.8	11.8
30	24096	24713	23293	-50.3	-36.3	-63.5		63	9.2	-8.2	-4.1	13.2
25	25262	25846	24421	-48.3	-33.9	-65.7		63	9.5	-8.5	-4.3	13.9
20	26718	27369	25821	-46.4	-36.5	-57.5		61	9.5	-8.3	-4.6	15.2
15	28594	29286	27651	-44.1	-32.9	-54.1		37	9.6	-5.7	-7.7	16.1
10	31240	32040	30615	-42.7	-34.4	-53.1		14	9.6	-2.4	-9.3	15.7
7	33377	34050	32880	-41.5	-35.1	-47.1		10	9.5	-1.6	-9.4	13.6

FREEZING LEVEL

P	Height	H max	H min
544	5190	6641	3400

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
107	16306	-78.3

Ranchi

42700

Station height

648

October

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	941.2	949	928	20.5	29.6	13.6	17.5	342	0.3	0.1	-0.3	0.9
1000	93	148	12									
950	537	588	462									
925	770	827	671	20.6	27.8	14.8	15.7	27	0.2	-0.1	-0.2	2.5
900	1011	1089	909	20.3	29.6	12.6	13.3	7	0.8	-0.1	-0.8	3.9
850	1502	1588	1403	17.7	29.4	8	9.3	5	1.2	-0.1	-1.2	4.4
800	2017	2104	1919	14.6	26.8	5.2	5.5	355	1.1	0.1	-1.1	4.7
750	2558	2671	2463	11.7	23.8	2.4	1.6	315	0.7	0.5	-0.5	4.8
700	3133	3256	3034	8.9	20.6	0	-2.2	260	1.1	1.1	0.2	4.8
650	3743	3895	3525	6	17.8	-4.9	-5.6	248	2.2	2	0.8	5.2
600	4394	4553	4289	2.8	12.2	-8.1	-9.6	244	3	2.7	1.3	5.7
550	5100	5295	4938	-0.9	8.4	-9.7	-13.4	246	3.7	3.4	1.5	6.3
500	5848	6037	5702	-5.3	5	-12.5	-17.9	246	4.5	4.1	1.8	6.9
450	6670	6880	6498	-10.3	0.4	-20.1	-23.4	247	5.2	4.8	2	7.8
400	7566	7881	7377	-15.9	-6.1	-26.5	-28.9	245	6.3	5.7	2.6	8.9
350	8558	8871	8372	-22.6	-11.1	-33.3	-36.2	244	7.6	6.8	3.3	10.1
300	9674	9978	9467	-30.6	-17.5	-43.9	-45.8	243	8.1	7.2	3.7	10.5
250	10943	11279	10708	-40.5	-23.7	-53.5	-56.1	241	8.6	7.5	4.2	10.9
200	12422	12849	12118	-52.5	-36.5	-64.5	-67.3	237	8.7	7.3	4.8	11.2
175	13271	13759	12977	-59.3	-42.5	-68.9	-61.7	236	7.9	6.6	4.4	10.4
150	14217	14773	13892	-66.4	-51.5	-76.7	-68.1	237	6.8	5.7	3.7	9.4
125	15295	15787	14930	-73.6	-60.4	-87.4		232	5.3	4.2	3.3	7.8
100	16583	17142	16159	-76.4	-63.7	-96.5		228	3.1	2.3	2.1	6.1
80	17877	18455	17387	-71	-56.3	-89.7		135	0.3	-0.2	0.2	4.4
70	18678	19230	18124	-66.5	-53.1	-83.3		59	0.6	-0.5	-0.3	4.1
60	19536	19997	19020	-62	-50.5	-76.9		69	1.4	-1.3	-0.5	4.7
50	20752	21365	20101	-58.1	-44.3	-81.3		79	1.5	-1.5	-0.3	5.5
40	22162	22820	21439	-54.2	-41.1	-68.7		76	2.1	-2	-0.5	6.1
30	24011	24738	23194	-50.5	-31.3	-65.5		81	1.9	-1.9	-0.3	7.1
25	25174	25957	24331	-49	-33.7	-63.1		87	1.7	-1.7	-0.1	7.3
20	26613	27485	25730	-47.4	-22.1	-61.5		90	1.2	-1.2	0	6.9
15	28458	29452	27732	-47	-32.7	-59.8		135	1.8	-1.3	1.3	8.2
10	31191	32242	30345	-43.1	-33.1	-53.7		288	1.3	1.2	-0.4	8.1
7	33624	34054	32663	-42	-37.9	-52.9		14	2.1	-0.5	-2	7.7

FREEZING LEVEL

P	Height	H max	H min
565	4904	6870	3100

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
107	16241	-77.9

Ranchi

42700

Station height

648

November

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	944.1	954	931	15.8	25.4	8	11.7	338	0.5	0.2	-0.5	0.8
1000	120	159	68									
950	560	626	510	15	16.2	14.2	8.6	11	1	-0.2	-1	1
925	792	864	698	17.1	24.5	10.6	10.8	14	0.8	-0.2	-0.8	2.7
900	1030	1106	973	17	25	9	7.7	356	1.5	0.1	-1.5	3.9
850	1515	1599	1458	14.5	24.6	6.6	3.8	338	1.6	0.6	-1.5	4.4
800	2024	2111	1965	12	21	3	-0.1	315	1.7	1.2	-1.2	5.3
750	2561	2663	2488	9.9	18.8	-1.3	-4.1	298	2.1	1.9	-1	6
700	3132	3235	3061	7.5	18.4	-4.5	-7.4	280	2.8	2.8	-0.5	6.7
650	3738	3867	3617	4.7	21.4	-11.1	-11.4	270	3.8	3.8	0	7.7
600	4386	4511	4290	1.3	10.2	-12.1	-14.8	265	4.7	4.7	0.4	8.7
550	5086	5227	4970	-2.6	6	-13.7	-19.3	265	6	6	0.5	10.1
500	5830	5989	5701	-7.2	3.3	-17.7	-23.3	262	7.6	7.5	1	11.5
450	6645	6816	6491	-12.5	0.2	-24.7	-30.3	262	8.9	8.8	1.3	13.1
400	7533	7733	7345	-18.4	-5.3	-30.7	-36.3	259	10.9	10.7	2	15
350	8515	8757	8292	-25	-9.9	-36.1	-42.7	257	12.4	12.1	2.8	16.7
300	9620	9918	9347	-32.7	-15.5	-43.5	-50.3	253	14.7	14.1	4.2	18.8
250	10879	11244	10575	-42.2	-22.7	-56.5	-60.1	252	14.9	14.1	4.7	18.7
200	12349	12793	12013	-53.6	-38.5	-69.3	-69.9	248	15.4	14.3	5.7	19.1
175	13196	13683	12831	-60	-43.5	-74.1	-67.7	247	13.4	12.3	5.3	16.8
150	14142	14674	13749	-66.2	-50.5	-78.9		245	11.4	10.3	4.8	14.7
125	15225	15834	14816	-72.3	-59.1	-85.4		245	9	8.2	3.8	12.6
100	16522	17125	16066	-75.6	-51.1	-85.7		245	5.2	4.7	2.2	8.7
80	17815	18351	17333	-72.2	-44.7	-83.5		241	2.5	2.2	1.2	6
70	18610	19190	18098	-68.3	-47.8	-80.5		237	1.7	1.4	0.9	5.2
60	19453	19989	19981	-63.2	-46.2	-77.1		236	1.4	1.2	0.8	5.1
50	20676	21264	20072	-58.3	-40.3	-72.3		228	1.2	0.9	0.8	5
40	22089	22737	21449	-54.1	-34.5	-70.3		197	1.4	0.4	1.3	4.9
30	23931	24657	23223	-50.7	-28	-68.9		197	1	0.3	1	5.5
25	25100	25770	24541	-49	-32.1	-68.5		195	2	0.5	1.9	6
20	26559	27266	25945	-47.2	-31.1	-68.1		197	2.1	0.6	2	5.4
15	28447	29220	27810	-44.9	-31	-62.3		178	2.5	-0.1	2.5	4.8
10	31198	32010	30337	-42.6	-30.8	-59.9		195	5	1.3	4.8	6.3
7	33792	34430	32709	-37.9	-29.5	-58.5		188	8.9	1.3	8.8	9.9

FREEZING LEVEL

P	Height	H_max	H_min
588	4588	6790	2400

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
103	16428	-76.9

Ranchi

42700

Station height

648

December

PRESSURE	HEIGHT	H max	H min	TEMP	TMAX	TMIN	DEWPT	DIR	VELO	U	V	VM
SURFACE	945.4	956	937	11.8	19.8	6.4	8.1	315	0.7	0.5	-0.5	0.9
1000	125	169	58									
950	562	622	496	12.5	14.8	9.4	7.6	6	1	-0.1	-1	1.4
925	799	878	722	13.1	21.2	7.4	5.3	328	1.5	0.8	-1.3	3.3
900	1034	1106	954	13.4	21	6.6	2.4	321	2.2	1.4	-1.7	4.5
850	1513	1591	1434	11.9	19	3	-2	309	3.3	2.6	-2.1	5.6
800	2019	2101	1935	10.2	18.2	1	-6.5	301	4.2	3.6	-2.2	6.7
750	2553	2700	2453	8.5	17.6	-14.5	-10.3	293	5.4	5	-2.1	8.2
700	3121	3218	3018	6.4	15.2	-13.5	-13.3	285	6.7	6.5	-1.7	9.6
650	3724	3900	3580	3.3	12	-7.9	-16.9	281	8.1	7.9	-1.6	11
600	4368	4495	4253	-0.2	7.4	-13.5	-20.6	277	9.7	9.6	-1.2	12.8
550	5062	5270	4916	-4.4	5.2	-18.1	-25.3	274	11.2	11.2	-0.7	14.8
500	5802	5970	5625	-9.1	11	-20.7	-29.4	269	13.2	13.2	0.2	17
450	6610	6840	6400	-14.4	1.4	-26.3	-33.7	267	15.4	15.4	0.8	19.3
400	7491	7719	7258	-20.5	-10.1	-36.5	-39.3	265	17.6	17.5	1.6	21.6
350	8466	8700	8210	-27.3	-15.7	-40.3	-44.9	263	19.2	19.1	2.3	23.3
300	9560	9879	9272	-35	-21.7	-48.9	-51.2	261	19.9	19.6	3.2	23.9
250	10807	11191	10487	-44.1	-31.5	-57.7	-60.4	257	20.1	19.6	4.5	24.1
200	12267	12741	11899	-54.6	-41.5	-68.3	-69.9	254	18.8	18.1	5.2	22.1
175	13110	13625	12708	-60.1	-46.1	-74.3	-73.5	252	16.1	15.3	5.1	19
150	14060	14636	13662	-65.4	-52.1	-90.5		249	13.9	13	4.9	16.5
125	15148	15602	14720	-70.4	-57.1	-83.9		247	10.1	9.3	4	13
100	16458	16983	16006	-74.2	-62.4	-86.3		244	6.1	5.5	2.7	8.9
80	17754	18348	17329	-73.7	-61.1	-86.1		243	3	2.7	1.4	6.4
70	18536	19169	18119	-70.8	-51.7	-82.3		239	2.1	1.8	1.1	5.3
60	19428	19954	18976	-66.5	-52.9	-81.3		228	1.5	1.1	1	5
50	20569	21305	20090	-61.7	-48.7	-77.9		208	1.9	0.9	1.7	4.9
40	21962	22762	21435	-57.3	-45.4	-73.1		217	1.5	0.9	1.2	4.5
30	23796	24663	23256	-53.3	-41.6	-70.7		195	2.4	0.6	2.3	5.2
25	24960	25895	24406	-51.4	-38.7	-69.9		201	3.3	1.2	3.1	5.7
20	26399	27394	25842	-49.2	-28.1	-63.7		189	4.4	0.7	4.3	6.2
15	28258	28834	27699	-46.3	-24.1	-57.3		189	5.2	0.8	5.1	7.1
10	30848	31580	30476	-43.6	-32.4	-56.1		189	10.6	1.6	10.5	12
7	33016	33923	32459	-40.5	-23.3	-52.7		178	14.1	-0.5	14.1	14.7

FREEZING LEVEL

P	Height	H_max	H_min
607	4301	5960	2220

FIRST TROPOPAUSE

P	Height	Temp

SECOND TROPOPAUSE

P	Height	Temp
103	16366	-75.7