

ABBREVIATIONS USED FOR DAILY SURFACE TAB3 DATA:

INDEX Index No. of the station
 MN Month
 HR Hour Code

Code	Time in UTC	Time in IST		Code	Time in UTC	Time in IST
00	00	0530		48	12	1730
12	03	0830		60	15	2030
24	06	1130		72	18	2330
36	09	1430		84	21	0230

DT Date
 SLP Station Level Pressure hpa
 MSLP Mean Sea Level Pressure hpa or Height in Geopotential
 Meters from the nearest standard level. Height is reported by the stations of which station height is above 800 gpm. Other stations will report Mean Sea Level Pressure.

DBT Dry bulb Temperature °C
 WBT Wet bulb Temperature °C
 DPT Dew point Temperature °C
 RH Relative Humidity in %, i.e. 090 means 90 %.
 VP Vapour Pressure in hpa
 DD Wind Direction in 16 points of compass (in code)

Code	Direction	Code	Direction	Code	Direction	Code	Direction
00	Calm	02	NNE	05	NE	07	ENE
09	E	11	ESE	14	SE	16	SSE
18	S	20	SSW	23	SW	25	WSW
27	W	29	WNW	32	NW	34	NNW
36	N	99	Variable				

FFF Wind Speed in Km. per hour
 AW Average Wind speed. Available only for 0830 and 1730 hrs. For other hours it will be kept blank.
 In case of 0830 hrs, it represents average wind speed from 1730 hrs of previous day to the 0830 hrs of present day. In case of 1730 hrs it means average speed from 0830 to 1730 hrs of the same day.

VV Visibility (in Codes)

Code	Day light observations	Night observations
90	Objects not visible at 50 meters	100 meters
91	Objects visible at 50 meters but not at 200 meters	330 meters
92	Objects visible at 200 meters but not at 500 meters	740 meters
93	Objects visible at 500 meters but not at 1000 meters	1340 meters
94	Objects visible at 1000 meters but not at 2000 meters	2330 meters
95	Objects visible at 2000 meters but not at 4000 meters	4000 meters
96	Objects visible at 4000 meters but not at 10000 meters	7500 meters
97	Objects visible at 10000 meters but not at 20000 meters	12000 meters
98	Objects visible at 20000 meters but not at 50000 meters	
99	Objects visible at 50000 meters or more	

CI Form of Low cloud (in code)

Code	Description
0	No stratocumulus, Stratus, Cumulus or Cumulonimbus
1	Cumulus cloud with little vertical extent
2	Cumulus cloud with moderate or strong vertical extent
3	Cumulonimbus not in the form of anvil
4	Stratocumulus formed by spreading out of Cumulus
5	Stratocumulus not formed by spreading out of Cumulus
6	Stratus in a more or less continuous sheet or layer
7	Stratus of bad weather
8	Cumulus or stratocumulus other than that formed from spreading of cumulus
9	Cumulonimbus often in the form of anvil
/	Low cloud(s) invisible owing to darkness, fog, blowing dust etc.

A Amount of Low cloud (in oktas)

Cm Form of Medium cloud (in code)

Code	Description
0	No altocumulus, Altostratus, or Nimbostratus clouds
1	Altostratus, the greater part of which is semi-transparent
2	Altostratus, the greater part of which is sufficiently dense
3	Altocumulus, the greater part of which is semi-transparent
4	Patches of Altocumulus, the greater part of which is semi-transparent
5	Semi-transparent Altocumulus in bands progressively invading the sky
6	Altocumulus resulting from the spreading out of Cumulus
7	Altocumulus in two or more layers usually opaque in places
8	Altocumulus sprouting in the form of small towers
9	Altocumulus of a chaotic sky, generally at several levels
/	Medium cloud(s) invisible owing to darkness, fog, blowing dust etc.

A Amount of Medium cloud (in oktas)

Ch	Form of High Cloud (in code)																								
	<table> <tr> <th>Code</th><th>Description</th></tr> <tr> <td>0</td><td>No Cirrus, Cirrocumulus, or Cirrostratus clouds</td></tr> <tr> <td>1</td><td>Cirrus in the form of hooks progressively invading the sky</td></tr> <tr> <td>2</td><td>Dense Cirrus having the appearance of cumuliform tufts</td></tr> <tr> <td>3</td><td>Dense Cirrus often in the form of an anvil</td></tr> <tr> <td>4</td><td>Cirrus in the form of hooks progressively invading the sky becoming dense</td></tr> <tr> <td>5</td><td>Cirrus often in bands converging towards horizon but the continuous veil does not reach 45 degree above the horizon</td></tr> <tr> <td>6</td><td>Cirrus often in bands converging towards horizon but the continuous veil extends more than 45 degree above the horizon</td></tr> <tr> <td>7</td><td>Veil of Cirrostratus covering the celestial dome</td></tr> <tr> <td>8</td><td>Cirrostratus not progressively invading the sky and not covering the celestial dome completely</td></tr> <tr> <td>9</td><td>Cirrocumulus/Cirrostratus/Cirrus but Cirrocumulus is predominant</td></tr> <tr> <td>/</td><td>High cloud(s) invisible owing to darkness, fog, blowing dust etc.</td></tr> </table>	Code	Description	0	No Cirrus, Cirrocumulus, or Cirrostratus clouds	1	Cirrus in the form of hooks progressively invading the sky	2	Dense Cirrus having the appearance of cumuliform tufts	3	Dense Cirrus often in the form of an anvil	4	Cirrus in the form of hooks progressively invading the sky becoming dense	5	Cirrus often in bands converging towards horizon but the continuous veil does not reach 45 degree above the horizon	6	Cirrus often in bands converging towards horizon but the continuous veil extends more than 45 degree above the horizon	7	Veil of Cirrostratus covering the celestial dome	8	Cirrostratus not progressively invading the sky and not covering the celestial dome completely	9	Cirrocumulus/Cirrostratus/Cirrus but Cirrocumulus is predominant	/	High cloud(s) invisible owing to darkness, fog, blowing dust etc.
Code	Description																								
0	No Cirrus, Cirrocumulus, or Cirrostratus clouds																								
1	Cirrus in the form of hooks progressively invading the sky																								
2	Dense Cirrus having the appearance of cumuliform tufts																								
3	Dense Cirrus often in the form of an anvil																								
4	Cirrus in the form of hooks progressively invading the sky becoming dense																								
5	Cirrus often in bands converging towards horizon but the continuous veil does not reach 45 degree above the horizon																								
6	Cirrus often in bands converging towards horizon but the continuous veil extends more than 45 degree above the horizon																								
7	Veil of Cirrostratus covering the celestial dome																								
8	Cirrostratus not progressively invading the sky and not covering the celestial dome completely																								
9	Cirrocumulus/Cirrostratus/Cirrus but Cirrocumulus is predominant																								
/	High cloud(s) invisible owing to darkness, fog, blowing dust etc.																								

A Amount of High cloud (in oktas)

DI Direction of low cloud in 8 points of compass (in code)

Dm Direction of medium cloud in 8 points of compass (in code)

Dh direction of high cloud in 8 points of compass (in code)

Code	Direction	Code	Direction
0	Stationary or no cloud	1	NE
2	E	3	SE
4	S	5	SW
6	W	7	NW
8	N	9	No definite direction or unknown

TC Total amount of cloud (in oktas)

h Height of low cloud (in code)

Code	Height	Code	Height
0	0 to 50 m	1	50 to 100 m
2	100 to 200 m	3	200 to 300 m
4	300 to 600 m	5	600 to 2000 m
6	1000 to 1500 m	7	1500 to 2000 m
8	2000 to 2500 m	9	2500 m or more or no clouds
/	Height of base of cloud not known or base of clouds at a level lower and tops at a level higher than that of the station		

c Form of individual Layer of cloud

a Amount of individual Layer of cloud

Ht Height of individual Layer of cloud (in code)

Code	Cloud height in meters
00	< 30
01 to 50	Code x 30 (e.g. if code is 43 then cloud height = 43 x 30 i.e. 1290 meters)
51 to 55	not used
56 to 80	(Code - 50) x 300 (e.g. if code is 77 then cloud height = (77-50)x300 i.e. 8100 meters)
81 to 88	9000+(code-80)x1500 (e.g. if code is 87 then cloud height = 9000+(87-80)x1500 i.e. 19500 meters)
89	> 21000
90	< 50
91	50 to 100
92	100 to 200
93	200 to 300
94	300 to 600
95	600 to 1000
96	1000 to 1500
97	1500 to 2000
98	2000 to 2500
99	2500 or more or no clouds

RF Total Rainfall since previous observation in mm

EVP Total Evaporation in mm

DW Direction of Wave in 16 points of compass (in code)

P Period of wave (in code)

Code	Period	Code	Period	Code	Period
0	20 or 21 Sec	1	over 21 Sec	2	0.8 to 1.2 Sec
3	1.3to1.7 Sec	4	8 or 9 Sec	5	10 or 11 Sec
6	12 or 13 Sec	7	14 or 15 Sec	8	16 or 17 Sec
9	18 or 19 Sec	X	Calm or period not determined		

H Height of wave (in code)

Code	Height	Code	Height	Code	Height
0	0.0 to 0.2 m	1	0.3 to 0.7m	2	0.8 to 1.2 m
3	1.3 to 1.7 m	4	1.8 to 2.2 m	5	2.3 to 2.7 m
6	2.8 to 3.2 m	7	3.3 to 3.7 m	8	3.8 to 4.2 m
9	4.3 to 4.7 m	X	Wave not observed		

FOR HEIGHTS ABOVE 4.7 m 50 IS ADDED TO WAVE DIRECTION

WAT Water Temperature in degree C