



ALL INDIA WEEKLY WEATHER REPORT  
09-15 NOVEMBER 2017

[Table-1\(A\)](#) [Table-1\(B\)](#) [Table-1\(C\)](#) [Table-2](#) [Table-3](#) [Fig-1](#) [Fig-2](#) [Annexure-1](#)

**SIGNIFICANT WEATHER FEATURES**

- A depression formed over westcentral Bay of Bengal off Andhra Pradesh on 15<sup>th</sup> November 2017.
- A Western Disturbance as an upper air cyclonic circulation embedded in a deep mid-latitude westerly trough caused widespread precipitation over Jammu & Kashmir and isolated to scattered rainfall over adjoining plains of northwest India on 14<sup>th</sup> & 15<sup>th</sup> November 2017.
- Dense to very dense fog observed at many places over Punjab; at a few places over Haryana, Chandigarh & Delhi at isolated places over north Rajasthan and Uttar Pradesh on many days of the week.
- Except one day in which northeast monsoon remained active over Kerala, all through the week, subdued activity prevailed over all other sub-divisions in the northeast monsoon regime.
- Very heavy rainfall occurred over Tamilnadu and Kerala on one day each and heavy rainfall over Tamilnadu on many days and coastal Andhra Pradesh on one or two 2 days of the week.
- Minimum temperatures were below normal on one or two days over Maharashtra State, Telangana, Rayalaseema and Karnataka. These were nearly normal or above normal over the rest regions of the country during the week.
- In the plains of the country, the lowest minimum temperature of 08.7<sup>0</sup>C was recorded at Sriganganagar (West Rajasthan) on 13<sup>th</sup> and at Adampur (Punjab) on 14<sup>th</sup> November, 2017.

**LEGEND:** Few days-(3 days), Many days-4 to 5 days and Most days-6 to 7 days during the week.

**METEOROLOGICAL ANALYSIS**

- Last week's **trough of low** at mean sea level persisted over southeast Arabian Sea & neighbourhood on 9<sup>th</sup> & 10<sup>th</sup> November and became less marked on 11<sup>th</sup> November 2017.
- Last week's **low pressure area** over south Andaman Sea & adjoining Malay peninsula lay over southeast Bay of Bengal & neighbourhood with associated cyclonic circulation extending upto 4.5 km above mean sea level on 9<sup>th</sup>; over southwest Bay of Bengal & neighbourhood with associated cyclonic circulation extending upto 5.8 km above mean sea level on 10<sup>th</sup> and persisted there with the cyclonic circulation upto 7.6 km above mean sea level on 11<sup>th</sup>. It lay over southwest Bay of Bengal and adjoining Sri Lanka & neighbourhood with associated cyclonic circulation extending upto 7.6 km above mean sea level on 12<sup>th</sup>; and as a **well marked low pressure** area over southwest Bay of Bengal and neighbourhood on 13<sup>th</sup>. It lay over westcentral and adjoining southwest Bay of Bengal with associated cyclonic circulation extending upto 7.6 km above mean sea level on 14<sup>th</sup>. Subsequently, it concentrated into a **Depression** over westcentral Bay of Bengal off Andhra Pradesh coast and lay centered near Lat. 15.0°N and Long. 83.0°E, about 230 km southeast of Machilipatnam (Andhra Pradesh) , 300 km south of Visakhapatnam and 510 km south-southwest of Gopalpur (Odisha)in the morning of 15<sup>th</sup> November 2017.
- Last week's **cyclonic circulation** extending upto 1.5 km above mean sea level persisted over northeast Bay of Bengal and adjoining Bangladesh coast and extended upto 0.9 km above mean sea level on 9<sup>th</sup> and became less marked on 10<sup>th</sup> November 2017.
- Last week's **feeble Western Disturbance** as an upper air cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir at 3.1 km above mean sea level lay over eastern parts of Jammu & Kashmir and neighbourhood on 9<sup>th</sup> and moved away on 10<sup>th</sup> November 2017.
- A **cyclonic circulation** between 3.1 & 5.8 km above mean sea level lay over Gulf of Mannar & neighbourhood on 9<sup>th</sup> and became less marked on 10<sup>th</sup> November 2017.
- A fresh **Western Disturbance** as a trough in mid tropospheric levels at 3.1 km above mean sea level ran roughly along long. 65.0° E to the north of lat. 32.0°N on 9<sup>th</sup> November. It was seen as

an **upper air cyclonic circulation** at 3.1 km above mean sea level over north Pakistan & neighbourhood on 10<sup>th</sup>; and over north Pakistan and adjoining Jammu & Kashmir on 11<sup>th</sup> & 12<sup>th</sup>. It moved away northeastwards on 13<sup>th</sup> November 2017.

- A cyclonic circulation extending upto 1.5 km above mean sea level lay over southeast Arabian Sea and adjoining Kerala coast on 11<sup>th</sup>; over southeast Arabian Sea and adjoining Kerala-south Karnataka coasts on 12<sup>th</sup>; over coastal Karnataka and neighbourhood on 13<sup>th</sup> and became less marked on 14<sup>th</sup> November 2017.
- A fresh **Western Disturbance** as a **trough** in mid-tropospheric westerlies ran roughly along long. 55.0°E to the north of lat. 30.0°N on 12<sup>th</sup>. It lay as an upper air cyclonic circulation extending up to 5.8 km above mean sea level over western parts of Afghanistan and neighbourhood, with the trough aloft running at 7.6 km above mean sea level roughly along long. 62.0°E to the north of lat. 26.0°N on 13<sup>th</sup>. It lay over eastern parts of Afghanistan & neighbourhood upto 7.6 km above mean sea level with the trough running roughly along long. 67.0°E to the north of lat. 23.0°N at 5.8 km above mean sea level on 14<sup>th</sup>; and persisted with the trough over the same region on 15<sup>th</sup> November 2017.
- An **induced cyclonic circulation** extending upto 1.5 km above mean sea level lay over central Pakistan and neighbourhood on 13<sup>th</sup>; over central Pakistan & adjoining West Rajasthan on 14<sup>th</sup>; and over northwest Rajasthan & neighbourhood on 15<sup>th</sup> November 2017.
- A **cyclonic circulation** extending upto 1.5 km above mean sea level lay over Gulf of Siam and neighbourhood on 13<sup>th</sup>; and became less marked on 14<sup>th</sup> November 2017.

### RAINFALL SUMMARY

#### Rainfall During The Week (09-15 November 2017)

Rainfall was large excess/excess in **2**, normal in **3**, deficient/large deficient in **12** and no rain in **19** out of **36** meteorological sub-divisions. (All India Actual: **1.8** mm, Normal: **6.9** mm and Departure: **-74%**).

#### Cumulative Seasonal Rainfall (01 October to 08 November 2017)

Rainfall was large excess/excess in **8**, normal in **12**, deficient/large deficient in **15** and no rain in **1** out of **36** meteorological sub-divisions. (All India Actual: **89.4** mm, Normal: **98.5** mm and Departure: **-9%**).

- Sub-division wise weekly and seasonal rainfall distribution is presented in [Fig-1](#) and [Fig-2](#).
- Sub-divisionwise daily distribution of realised rainfall is shown in [Table-1\(A\)](#).
- Sub-divisionwise daily distribution of realised minimum temperature is shown in [Table-1\(C\)](#)
- Statewise distribution of number of districts with Large-Excesse, Excess, Normal, Deficient, Large-deficient and no rainfall is shown in [Table-2](#).
- A comparative data of cumulative seasonal rainfall during the corresponding period in the last five years is given in [Table-3](#).
- Sub-divisionwise realised weekly rainfall (in cm) is shown in [Annexure-1](#).

### METEOROLOGICAL ANALYSIS AS ON 16 NOVEMBER 2017

- The depression over westcentral Bay of Bengal and adjoining northwest Bay of Bengal off north Andhra Pradesh-south Odisha coast moved slightly northeast wards and lay centred at 1430 hours IST of today, the 16<sup>th</sup> November, 2017 near latitude 17.8°N and longitude 84.5°E, about 110 km east of Visakhapatnam and 185 km southsouthwest of Gopalpur. The system is very likely to move northeastwards off north Andhra Pradesh-Odisha coast during next 12 hours maintaining its intensity. Thereafter, it is very likely to continue to move northeastwards and weaken gradually.
- A Western Disturbance as an upper air cyclonic circulation lies over eastern parts of Afghanistan & neighbourhood extending upto 7.6 km above mean sea level. The associated trough runs roughly along Long. 67.0°E and north of Lat. 18.0°N at 5.8 km above mean sea level.
- An induced cyclonic circulation lies over East Rajasthan & neighbourhood at 1.5 km above mean sea level.
- A cyclonic circulation at 1.5 km above mean sea level lies over north Kerala & neighbourhood.

### FORECAST & WARNING FOR THE NEXT WEEK 16 NOVEMBER TO 22 NOVEMBER 2017

- Detailed seven days Sub-division wise rainfall-forecast & weather-warning is given in [Table-1\(B\)](#).

**Table-1 (A)**

<b>METEOROLOGICAL SUB-DIVISIONWISE DISTRIBUTION OF REALISED RAINFALL -2017</b>								
<b>S.No.</b>	<b>MET.SUB-DIVISIONS</b>	<b>09 NOV</b>	<b>10 NOV</b>	<b>11 NOV</b>	<b>12 NOV</b>	<b>13 NOV</b>	<b>14 NOV</b>	<b>15 NOV</b>
1	ANDAMAN & NICO.ISLANDS	FWS	WS	WS	WS	WS	WS	SCT
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	NAGA.MANI.MIZO.& TRIPURA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	SUB-HIM.W. BENG. & SIKKIM	DRY	DRY	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	FWS
7	ODISHA	DRY	DRY	DRY	DRY	DRY	DRY	SCT
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA CHD. & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	SCT
15	HIMACHAL PRADESH	DRY	ISOL	DRY	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR	DRY	DRY	DRY	DRY	DRY	DRY	FWS
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJARAT REGION D.D. & N.H.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASTRA KUTCH & DIU	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
30	RAYALASEEMA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	SCT	ISOL	SCT	ISOL	ISOL	SCT	SCT
32	COASTAL KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INT.KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INT.KARNATAKA	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL
35	KERALA	WS	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
36	LAKSHADWEEP	DRY	FWS	DRY	DRY	DRY	DRY	DRY
<b>LEGENDS:</b>								
<b>WS</b>	<b>WIDE SPREAD / MOST PLACES (76-100%)</b>	<b>FWS</b>	<b>FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)</b>					
<b>SCT</b>	<b>SCATTERED / FEW PLACES (26% to 50%)</b>	<b>ISOL</b>	<b>ISOLATED (up to 25%)</b>	<b>DRY</b>	<b>NO STATION REPORTED RAINFALL</b>			
* <b>ACTIVE (R/F 1<sup>1</sup>/<sub>2</sub>- 4 times the normal with WS/FWS, at least 2 stations should be 5 cm. along west coast &amp; 3 cm. elsewhere )</b>								
** <b>VIGOROUS (R/F More than 4 times the normal with WS/FWS, at least 2 stations should be 8 cm. along west coast &amp; 5 cm. elsewhere)</b>								

**Table-1 (B)**

<b>METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST &amp; Wx. WARNINGS-2017</b>								
<b>Sr. No</b>	<b>MET.SUB-DIVISIONS</b>	<b>16 NOV</b>	<b>17 NOV</b>	<b>18 NOV</b>	<b>19 NOV</b>	<b>20 NOV</b>	<b>21 NOV</b>	<b>22 NOV</b>
1	ANDAMAN & NICO.ISLANDS	ISOL	ISOL	ISOL	ISOL	SCT	SCT	FWS
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	ISOL	ISOL	DRY	DRY
3	ASSAM & MEGHALAYA	SCT	ISOL	ISOL	ISOL	ISOL	DRY	DRY
4	NAGA.MANI.MIZO.& TRIPURA	FWS	SCT	ISOL	ISOL	ISOL	ISOL	DRY
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	WS <sup>**</sup>	FWS <sup>*</sup>	ISOL	ISOL	ISOL	DRY	DRY
7	ODISHA	FWS <sup>**</sup>	SCT	ISOL	SCT	SCT	ISOL	DRY
8	JHARKHAND	SCT	ISOL	ISOL	DRY	DRY	DRY	DRY
9	BIHAR	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY	DRY	ISOL	ISOL	DRY	DRY	ISOL
13	HARYANA CHD. & DELHI	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	ISOL	SCT	ISOL	DRY	DRY	DRY
16	JAMMU & KASHMIR	FWS	ISOL	SCT	ISOL	DRY	DRY	DRY
17	WEST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
21	GUJARAT REGION D.D. & N.H.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASTRA KUTCH & DIU	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
25	MARATHAWADA	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
26	VIDARBHA	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
27	CHHATTISGARH	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL <sup>*</sup>	ISOL	ISOL	SCT	SCT	ISOL	ISOL
29	TELANGANA	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	SCT	ISOL	SCT	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	DRY	ISOL	ISOL	SCT	SCT	ISOL	ISOL
33	NORTH INT.KARNATAKA	DRY	DRY	ISOL	SCT	SCT	ISOL	ISOL
34	SOUTH INT.KARNATAKA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
35	KERALA	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
36	LAKSHADWEEP	DRY	DRY	DRY	ISOL	SCT	ISOL	ISOL
<b>LEGENDS:</b>								
<b>WS</b>	<b>WIDE SPREAD / MOST PLACES (76-100%)</b>			<b>FWS</b>	<b>FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)</b>			
<b>SCT</b>	<b>SCATTERED / FEW PLACES (26% to 50%)</b>			<b>ISOL</b>	<b>ISOLATED (up to 25%)</b>		<b>DRY</b>	<b>NO STATION REPORTED RAINFALL</b>
<sup>*</sup> Heavy Rainfall (64.5-115.5 mm)	<sup>**</sup> Heavy to Very Heavy Rainfall (115.6-204.4 mm)			<sup>***</sup> Extremely Heavy Rainfall (204.5 mm or more)				
<sup>•</sup> FOG	<sup>*</sup> SNOWFALL	<sup>#</sup> HAILSTORM			<sup>!</sup> HEAT WAVE		<sup>!</sup> SEVERE HEAT WAVE	
<sup>§</sup> THUNDER SQUALL	<sup>DS/TS</sup> DUST/THUNDERSTORM			<sup>!</sup> COLD WAVE		<sup>!</sup> SEVERE COLD WAVE		

**Table-1 (C)**

METEOROLOGICAL SUB-DIVISIONWISE DISTRIBUTION OF REALISED MINIMUM TEMPERATURE -2017								
Sr.No	MET.SUB-DIVISIONS	09 NOV	10 NOV	11 NOV	12 NOV	13 NOV	14 NOV	15 NOV
1	ANDAMAN & NICO.ISLANDS	N	N	N	N	N	N	N
2	ARUNACHAL PRADESH	AN	N	N	N	N	N	N
3	ASSAM & MEGHALAYA	N	N	N	N	N	N	N
4	NAGA.MANI.MIZO.& TRIPURA	N	N	N	N	AAN	N	AAN
5	SUB-HIM.W. BENG. & SIKKIM	N	N	N	N	N	N	N
6	GANGETIC WEST BENGAL	N	N	N	N	N	N	AN
7	ODISHA	N	N	N	N	N	N	N
8	JHARKHAND	N	N	N	N	N	N	AN
9	BIHAR	N	N	N	N	N	N	N
10	EAST UTTAR PRADESH	N	N	N	N	N	N	N
11	WEST UTTAR PRADESH	N	N	N	N	N	N	N
12	UTTARAKHAND	AN	N	N	N	N	N	N
13	HARYANA CHD. & DELHI	N	N	N	N	N	N	AN
14	PUNJAB	N	N	N	N	N	N	AN
15	HIMACHAL PRADESH	AN	N	N	N	N	N	N
16	JAMMU & KASHMIR	AN	N	AN	N	N	AN	N
17	WEST RAJASTHAN	N	N	N	N	N	AN	N
18	EAST RAJASTHAN	AN	N	N	N	N	N	N
19	WEST MADHYA PRADESH	AN	N	N	N	N	N	N
20	EAST MADHYA PRADESH	N	N	N	N	N	N	N
21	GUJARAT REGION D.D. & N.H.	N	N	N	N	N	N	N
22	SAURASTRA KUTCH & DIU	N	N	N	N	N	N	N
23	KONKAN & GOA	N	N	N	N	BN	N	BN
24	MADHYA MAHARASHTRA	N	N	N	BN	N	ABN	N
25	MARATHAWADA	N	N	N	BN	BN	N	N
26	VIDARBHA	N	N	N	ABN	BN	N	N
27	CHHATTISGARH	N	N	N	N	N	N	N
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	AN	N
29	TELANGANA	N	N	N	BN	N	N	N
30	RAYALASEEMA	N	N	N	BN	N	AN	N
31	TAMILNADU & PUDUCHERRY	N	N	N	N	N	N	N
32	COASTAL KARNATAKA	N	N	N	N	BN	N	N
33	NORTH INT.KARNATAKA	N	N	N	ABN	BN	N	N
34	SOUTH INT.KARNATAKA	N	N	N	N	BN	N	N
35	KERALA	N	N	N	N	N	N	N
36	LAKSHADWEEP	N	N	N	N	N	N	N
<b>LEGENDS:</b>								
<b>N</b>	<b>NORMAL (N+1,N-1)°C</b>	<b>BN</b>	<b>BELOW NORMAL (N-2)°C</b>		<b>ABN</b>	<b>APRECIABLY BELOW NORMAL (N-3, -4)°C</b>		
<b>AN</b>	<b>ABOVE NORMAL (N+2)°C</b>	<b>MBN</b>	<b>MARKEDLY BELOW NORMAL (N-5 AND BELOW ) °C</b>					
<b>AAN</b>	<b>APRECIABLY ABOVE NORMAL (N+3,+4)°C</b>			<b>MAN</b>	<b>MARKEDLY ABOVE NORMAL (N+5 AND ABOVE ) °C</b>			
* Cold wave conditions (Departure from Normal is( -4 °C to -5 °C and -5 °C to -6 °C)				** Severe Cold wave conditions (Departure from Normal is( -6 °C or less and -7 °C or less )				

**Table-2**

**STATEWISE DISTRIBUTION OF NO. OF DISTRICTS  
WITH EXCESS, NORMAL, DEFICIENT, SCANTY AND NO RAINFALL**

S. NO.	STATES	PERIOD FROM : 01.10.2017 TO 15.11.2017							TOTAL
		LE	E	N	D	LD	NR	ND	
1	A & N ISLAND (UT)	0	0	1	2	0	0	0	3
2.	ARUNACHAL PRADESH	3	3	2	1	3	0	4	16
3.	ASSAM	6	10	9	1	0	0	1	27
4.	MEGHALAYA	2	1	1	0	0	0	3	7
5.	NAGALAND	0	0	1	1	0	0	9	11
6.	MANIPUR	1	1	0	0	0	0	7	9
7.	MIZORAM	1	0	1	1	0	0	6	9
8.	TRIPURA	3	1	0	0	0	0	0	4
9.	SIKKIM	0	0	0	3	1	0	0	4
10.	WEST BENGAL	9	4	4	2	0	0	0	19
11.	ODISHA	5	11	13	1	0	0	0	30
12.	JHARKHAND	7	5	4	6	2	0	0	24
13.	BIHAR	5	2	3	7	14	7	0	38
14.	UTTAR PRADESH	0	0	0	2	21	49	0	72
15.	UTTARAKHAND	0	0	0	0	6	7	0	13
16.	HARYANA	0	0	0	0	3	18	0	21
17.	CHANDIGARH (UT)	0	0	0	0	0	1	0	1
18.	DELHI	0	0	0	0	0	8	1	9
19.	PUNJAB	0	0	0	4	9	7	0	20
20.	HIMACHAL PRADESH	0	0	0	0	4	8	0	12
21.	JAMMU & KASHMIR	0	0	0	0	17	3	2	22
22.	RAJASTHAN	0	0	0	0	2	31	0	33
23.	MADHYA PRADESH	0	4	3	4	26	14	0	51
24.	GUJARAT	4	0	3	3	7	16	0	33
25.	DADRA & NAGAR HAVELI (UT)	1	0	0	0	0	0	0	1
26.	DAMAN & DIU (UT)	0	0	1	1	0	0	0	2
27.	GOA	0	0	1	1	0	0	0	2
28.	MAHARASHTRA	1	13	15	7	0	0	0	36
29.	CHHATISGARH	2	4	6	10	4	1	0	27
30.	ANDHRA PRADESH	0	4	1	7	1	0	0	13
31.	TELANGANA	3	1	5	1	0	0	0	10
32.	TAMILNADU	1	4	11	16	0	0	0	32
33.	PUDUCHERRY (UT)	0	2	0	0	0	0	2	4
34.	KARNATAKA	4	10	9	7	0	0	0	30
35.	KERALA	0	1	5	7	1	0	0	14
36.	LAKSHADWEEP (UT)	0	0	0	1	0	0	0	1
	<b>TOTAL</b>	<b>58</b>	<b>81</b>	<b>99</b>	<b>96</b>	<b>121</b>	<b>170</b>	<b>35</b>	<b>660</b>
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 625 WHOSE DATA RECEIVED		9%	13%	16%	16%	19%	27%		

**PERCENT DISTRIBUTION OF DISTRICTS IN EARLIER YEARS SINCE 1st JUNE**

DATE	LE	E	N	D	LD	NR
16.11.2016	0%	21%	16%	23%	35%	5%
18.11.2015	0%	9%	10%	22%	50%	9%
12.11.2014	0%	15%	15%	24%	38%	8%
13.11.2013	0%	52%	16%	24%	7%	1%
14.11.2012	0%	15%	20%	18%	27%	20%

**Table-3****RAINFALL DURING POST-MONSOON SEASON**

S. No.	Meteorological Sub-Divisions	<i>For the period from 1<sup>st</sup> October to</i>						
			14 NOV 2012	13 NOV 2013	12 NOV 2014	18 NOV 2015	16 NOV 2016	15 NOV 2017
1.	Andaman & Nicobar Islands	A	289	528	533	371	412	376
		N	418	409	403	463	441	431
		D	-31	+29	+32	-20	-7	-13
2.	Arunachal Pradesh	A	179	208	44	99	185	223
		N	207	207	206	210	209	208
		D	-14	+1	-79	-53	-12	+7
3	Assam & Meghalaya	A	171	120	30	77	148	217
		N	172	171	170	173	173	172
		D	+0	-30	-82	-56	-14	+26
4.	Naga., Mani., Mizo. & Tripura	A	174	123	72	123	203	297
		N	215	213	211	219	216	215
		D	-19	-42	-66	-44	-6	+38
5.	Sub-Himalayan West Bengal & Sikkim	A	145	217	31	75	156	167
		N	167	166	165	169	168	167
		D	-13	+30	-81	-56	-7	+0
6.	Gangetic West Bengal	A	111	358	56	33	89	227
		N	146	145	144	148	147	147
		D	-24	+147	-61	-78	-40	+54
7.	Odisha	A	144	391	113	31	104	163
		N	132	132	131	135	134	133
		D	+9	+197	-14	-77	-22	+23
8.	Jharkhand	A	73	281	45	23	45	104
		N	82	81	81	82	82	82
		D	-10	+246	-45	-72	-45	+27
9.	Bihar	A	44	197	48	10	61	50
		N	70	70	70	71	70	70
		D	-36	+183	-31	-85	-13	-29
10.	East Uttar Pradesh	A	2	98	75	12	26	3
		N	52	52	52	53	53	53
		D	-97	+88	+44	-77	-51	-94
11.	West Uttar Pradesh	A	1	61	14	9	10	1
		N	45	45	45	45	45	45
		D	-99	+37	-68	-80	-79	-99
12.	Uttarakhand	A	9	32	41	18	13	3
		N	64	64	63	64	64	64
		D	-86	-49	-36	-73	-80	-96
13.	Haryana, Chandigarh & Delhi	A	3	13	11	6	5	*
		N	19	19	19	19	19	19
		D	-84	-35	-44	-69	-73	-98
14.	Punjab	A	3	22	7	10	2	3
		N	25	25	25	25	25	25
		D	-89	-9	-73	-61	-90	-89

S. No.	Meteorological Sub-Divisions	For the period from 1 <sup>st</sup> October to						
			14 NOV 2012	13 NOV 2013	12 NOV 2014	18 NOV 2015	16 NOV 2016	15 NOV 2017
15.	Himachal Pradesh	A	3	36	21	25	5	*
		N	50	50	49	51	51	50
		D	-94	-27	-58	-51	-90	-99
16.	Jammu & Kashmir	A	15	67	50	123	3	3
		N	50	50	50	55	54	51
		D	-70	+34	+1	+123	-94	-95
17.	West Rajasthan	A	1	11	1	1	18	0
		N	7	7	6	7	7	7
		D	-81	+64	-89	-83	+178	-99
18.	East Rajasthan	A	*	31	3	5	33	0
		N	20	20	20	21	20	20
		D	-99	+55	-85	-73	+64	-100
19.	West Madhya Pradesh	A	4	64	9	11	41	13
		N	39	39	38	40	39	39
		D	-91	+66	-75	-72	+4	-65
20.	East Madhya Pradesh	A	17	122	57	39	29	19
		N	41	41	41	43	42	42
		D	-60	+197	+40	-8	-31	-55
21.	Gujarat Region	A	5	60	3	2	67	15
		N	27	27	27	29	27	27
		D	-83	+121	-87	-92	+147	-42
22.	Saurashtra, Kutch & Diu	A	3	35	7	4	65	5
		N	24	24	24	25	25	24
		D	-89	+46	-71	-83	+160	-80
23.	Konkan & Goa	A	175	156	111	106	108	157
		N	135	133	132	137	136	135
		D	+30	+17	-16	-23	-21	+16
24.	Madhya Maharashtra	A	95	60	42	49	63	113
		N	91	89	89	93	92	91
		D	+5	-33	-53	-48	-31	+23
25.	Marathawada	A	72	94	18	19	101	100
		N	83	82	82	85	84	84
		D	-13	+14	-78	-77	+20	+20
26.	Vidarbha	A	43	134	19	7	75	57
		N	64	64	64	66	65	65
		D	-34	+109	-70	-89	+15	-11
27.	Chhattisgarh	A	61	175	75	19	80	62
		N	66	66	66	67	67	67
		D	-7	+165	+13	-72	+18	-8
28.	Coastal Andhra Pradesh	A	407	393	174	215	71	157
		N	257	254	249	269	264	260
		D	+58	+55	-30	-20	-73	-40
29.	Telangana	A	145	235	47	24	71	115
		N	106	105	105	109	107	107
		D	+37	+122	-55	-78	-34	+8



S. No.	Meteorological Sub-Divisions	For the period from 1 <sup>st</sup> October to						
			14 NOV 2012	13 NOV 2013	12 NOV 2014	18 NOV 2015	16 NOV 2016	15 NOV 2017
30.	Rayalaseema	A	160	147	109	291	18	251
		N	169	167	164	177	174	172
		D	-5	-12	-33	+64	-90	+46
31.	Tamil Nadu & Puducherry	A	314	169	278	390	93	251
		N	280	275	268	298	289	285
		D	+12	-39	+4	+31	-68	-12
32.	Coastal Karnataka	A	218	257	199	239	94	199
		N	225	223	221	234	229	227
		D	-3	+16	-10	+2	-59	-12
33.	North Interior Karnataka	A	138	102	81	63	32	149
		N	128	127	126	133	129	129
		D	+8	-20	-36	-52	-75	+16
34.	South Interior Karnataka	A	154	110	155	216	32	191
		N	177	176	173	183	180	178
		D	-13	-37	-11	+18	-82	+7
35.	Kerala	A	292	327	408	483	159	334
		N	390	385	380	407	399	396
		D	-25	-15	+7	+19	-60	-16
36.	Lakshadweep	A	157	104	175	275	83	179
		N	226	223	221	239	235	231
		D	-30	-53	-21	+15	-65	-23
<b>Country as whole</b>		A	<b>85.4</b>	<b>135.3</b>	<b>64.7</b>	<b>72.2</b>	<b>60.9</b>	<b>89.4</b>
		N	<b>97.4</b>	<b>96.6</b>	<b>95.6</b>	<b>100.9</b>	<b>99.4</b>	<b>98.5</b>
		D	<b>-12</b>	<b>+40</b>	<b>-32</b>	<b>-28</b>	<b>-39</b>	<b>-9</b>

### SUMMARY

No. of Sub-Divisions with rainfall	For the period from 1 <sup>st</sup> October to						
	14 NOV 2012	13 NOV 2013	12 NOV 2014	18 NOV 2015	16 NOV 2016	15 NOV 2017	
Large Excess	-	-	-	-	-	00	
Excess	03	19	03	03	05	08	
Normal	14	07	08	05	09	12	
<b>Total</b>	<b>17</b>	<b>26</b>	<b>11</b>	<b>08</b>	<b>14</b>	<b>20</b>	
Deficient	06	10	11	10	09	05	
Large Deficient	-	-	-	-	-	10	
Scanty	13	00	14	18	13	-	
No rain	00	00	00	00	00	01	
<b>Total</b>	<b>19</b>	<b>10</b>	<b>25</b>	<b>28</b>	<b>22</b>	<b>16</b>	
Data Inadequate	00	00	00	00	00	00	
<b>TOTAL</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	

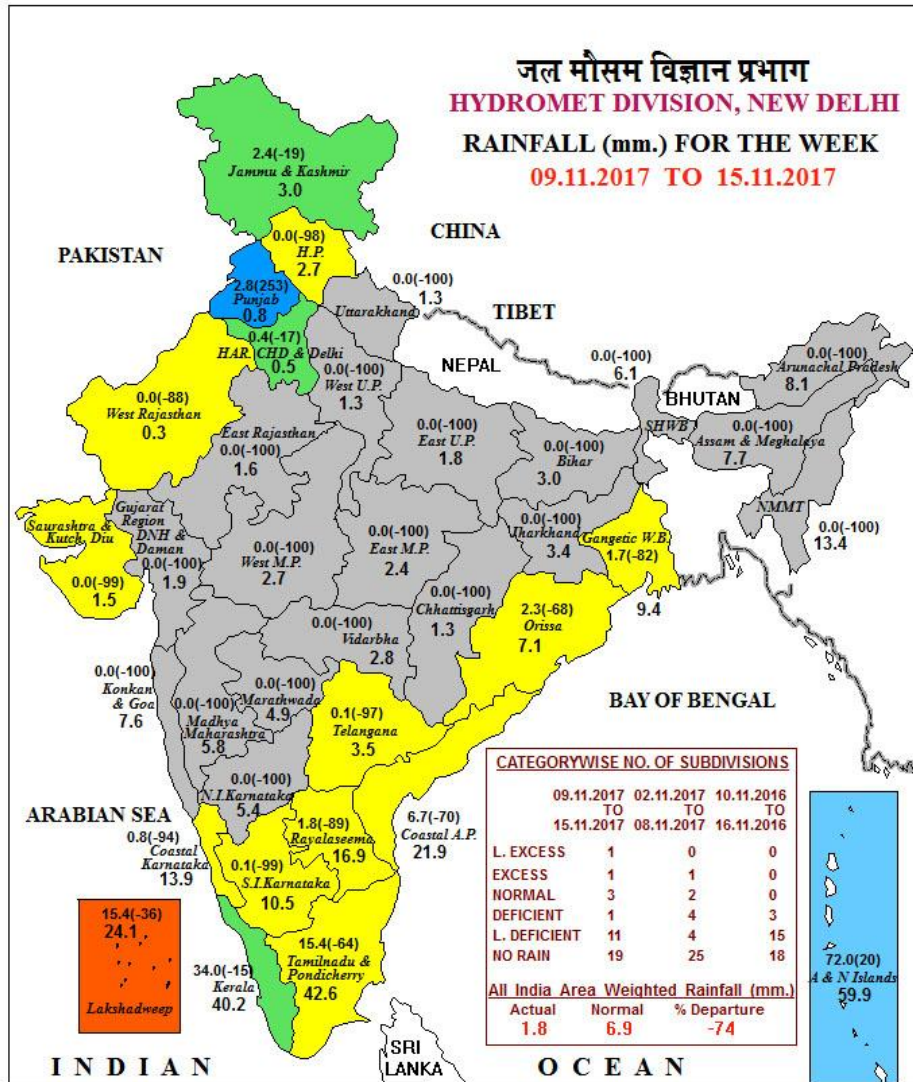
\* Data is rounded off to nearest full figure according to Meteorological convention.

**SEASONS:** WINTER SEASON (January-February) PRE-MONSOON SEASON (March-May)  
MONSOON SEASON (June-September) POST-MONSOON SEASON (October-December)

**LEGEND:** Large Excess: +60% or more A : Actual Rainfall (mm)  
Excess : +20% to +59% N : Normal Rainfall (mm)  
Normal: +19% to -19% D : Departure from normal (%)  
Deficient: -20% to -59% *Scanty: -20% to -99%*  
Large Deficient: -60% to -99% No Rain: -100%  
Data Inadequate: \*\* Rainfall upto 0.4 mm : \*

**Fig-1**

**भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT**



**LEGEND:** ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

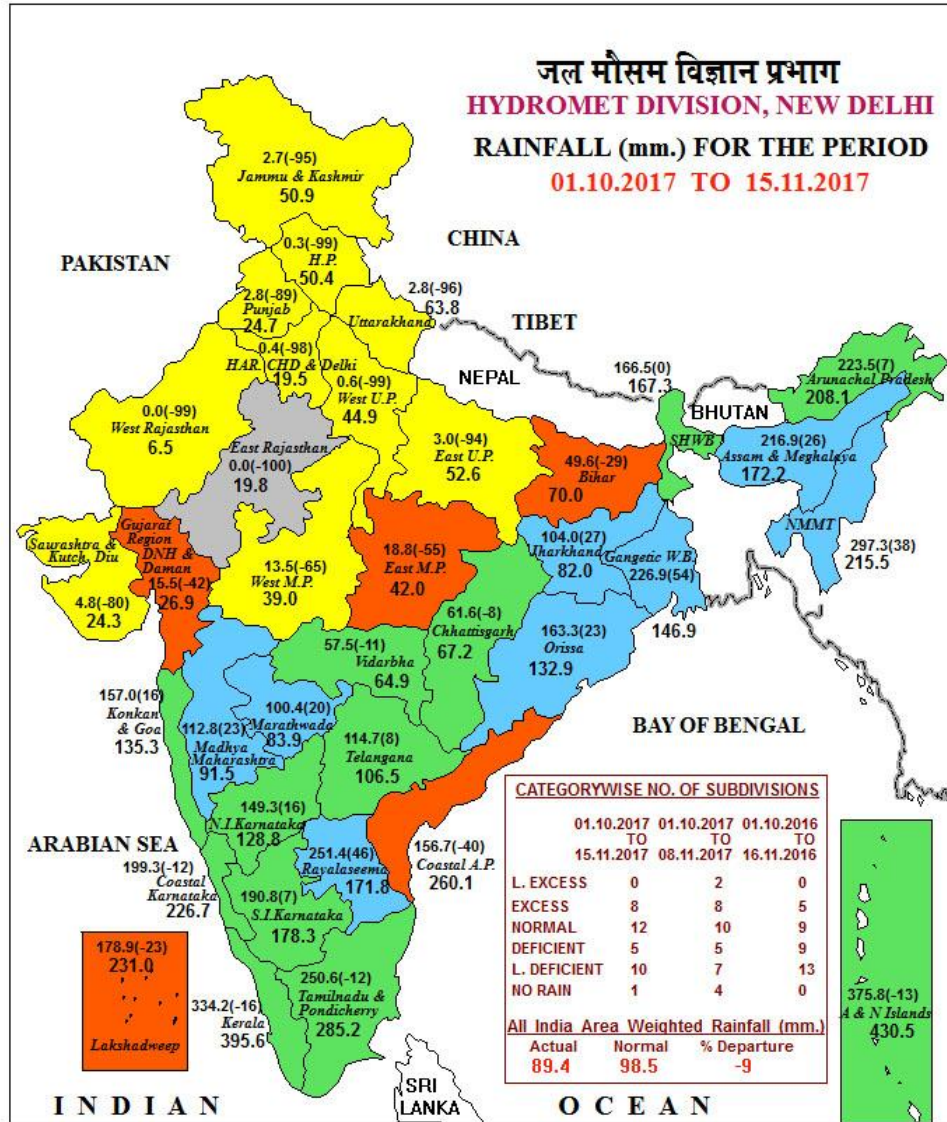
**NOTES:**

(a) Rainfall figures are based on operational data.

(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

**Fig-2**

**भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT**



**LEGEND:** ■ L. EXCESS [+60% OR MORE] ■ EXCESS [+20% TO +59%] ■ NORMAL [+19% TO -19%]  
 ■ DEFICIENT [-20% TO -59%] ■ L. DEFICIENT [-60% TO -99%] ■ NO RAIN [-100%] ■ NO DATA

**NOTES:**  
 (a) Rainfall figures are based on operational data.  
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

**RAINFALL DURING THE WEEK (in cm.)**  
**(9 TO 15 NOVEMBER 2017)**

**9 NOVEMBER 2017**

**ANDAMAN & NICOBAR ISLANDS:** NANCOWARY-2, HUT BAY-2, PORT BLAIR-2, **TAMILNADU & PUDUCHERRY:** PALAYAMKOTTAI-7, K.PARAMATHI-6, PAPANASAM (DISTRICT: TIRUNELVELI)-5, MADURAI SOUTH-4, COONOOR-4, AIRPORT MADURAI-4, VILATHIKULAM-3, DHARAPURAM-3, SATTUR-3, BODINAICKANUR-3, KOVILPATTI-3, TIRUMANGALAM-2, THUCKALAY-2, AMBASAMUDRAM-2, CHERANMAHADEVI-2, SIVAKASI-2, WATRAP-2, SRIVAİKUNTAM-2, MULANUR-2, R.S.MANGALAM-2, COONOOR PTO-2, KUZHITHURAI-1, TIRUVANNAMALAI-1, KADAVUR-1, PERAIYUR-1, VEDASANDUR-1, KALUGUMALAI-1, MANIMUTHARU-1, SALEM-1, SANKARANKOIL-1, CHINNAKALAR-1, KODAIKANAL-1, UDUMALPET-1, ARANTANGI-1, MAHABALIPURAM-1, METTUPATTI-1, NANGUNERI-1, KODUMUDI-1, VALPARAI PTO-1, SRIVILLIPUTHUR-1, VENBAVUR-1, VIRUDHUNAGAR-1, KADALADI-1, SHOLAVANDAN-1, K BRIDGE-1, KARAIKAL-1, MANAMADURAI-1, **COASTAL KARNATAKA:** MULKI-1, **KERALA:** KURUDAMANNIL-13, PIRAVAM-9, VARKALA-9, PUNALUR-9, KONNI-8, PERINTHALAMANNA-8, KOLLAM RLY-8, ANGADIPURAM-7, PATTEMBI-7, PERUMPAVUR-7, KOTTAYAM-6, VAIKOM-6, CHERTHALA-6, PONNANI-5, TRIVANDRUM AERO-5, KUMARAKAM-4, CHENGANNUR-4, THIRUVANANTHAPURAM-4, CHALAKUDI-3, VADAKKANCHERRY-3, THRITLA-3, MYLADUMPARA-AGRI-3, KAYAMKULAM-3, KAYAMKULAM- AGRI-2, KOZHA-2, IDUKKI-2, ENAMAKKAL-2, KARIPUR AP.-2, MAVELIKARA-2, THODUPUZHA-2, MANJERI-1, AMBALAVAYAL-1, HARIPAD-1, NEYYATTINKARA-1, KUNNAMKULAM-1, MANCOMPU-1, NEDUMANGAD-1, ALAPUZHA-1, IRINJALAKUDA-1, ARYANKAVU-1, QUILANDI-1.

**10 NOVEMBER 2017**

**ANDAMAN & NICOBAR ISLANDS:** HUT BAY-4, PORT BLAIR-3, CAR NICOBAR-2, LONG ISLAND-1, **TAMILNADU & PUDUCHERRY:** THUCKALAY-5, MYLAUDY-4, AMBASAMUDRAM-3, KARAIKAL-2, KALUGUMALAI-2, PAPANASAM (DISTRICT: TIRUNELVELI)-1, NANGUNERI-1, TRANGAMBADI(OR)TRANQUEB-1, SHENCOTTAH-1, COLACHEL-1, PERIYAR-1, **KERALA:** KONNI-3, NEDUMANGAD-1, MYLADUMPARA-AGRI-1, ARYANKAVU-1, **LAKSHADWEEP:** AMINI-3, MINICOY-1.

**11 NOVEMBER 2017**

**ANDAMAN & NICOBAR ISLANDS:** PORT BLAIR-2, IAF CARNICOBAR-2, CAR NICOBAR-2, MAYA BANDAR-1, HUT BAY-1, **TAMILNADU & PUDUCHERRY:** VEDARANYAM-13, NAGAPATTINAM-9, MARAKKANAM-7, CUDDALORE-6, PARANGIPETTAI-5, CHENGALPATTU-5, PONDICHERRY-5, MAHABALIPURAM-5, VANUR-5, KARAIKAL-4, CHIDAMBARAM-3, ANAIKARANCHATRAM(KOLLID-3, THIRUTHURAIPOONDI-3, MAYILADUTHURAI-3, TRANGAMBADI(OR)TRANQUEB-3, NEYVELI AWS-3, CHEYYUR-2, SIRKALI-2, K.M.KOIL-2, KELAMBAKKAM-2, TIRUVARUR-2, SRIMUSHNAM-2, SATYABAMA UTY ARG-2, SETHIATHOPE-2, PANRUTI-2, KVK KATTUKUPPAM ARG-2, JAYAMKONDAM-1, MUTHUPET-1, NANNILAM-1, NEEDAMANGALAM-1, VIRUDACHALAM-1, MANNARGUDI-1, ADUTHURAI AWS-1, KODAVASAL-1, THIRUVIDAIMARUTHUR-1, ADIRAMPATNAM-1, MADUKKUR-1, USILAMPATTI-1, MADURANTHAGAM-1, THENKASI-1, TINDIVANAM-1, **KERALA:** KURUDAMANNIL-3, PEERMADE TO-1.

**12 NOVEMBER 2017**

**ANDAMAN & NICOBAR ISLANDS:** HUT BAY-2, CAR NICOBAR-1, LONG ISLAND-1, IAF CARNICOBAR-1, **KERALA:** MANCOMPU-4, KOLLAM RLY-3, PEERMADE TO-3, ALAPUZHA-2, KUMARAKAM-2, KAYAMKULAM- AGRI-2, MAVELIKARA-1, CHERTHALA-1.

**13 NOVEMBER 2017**

**ANDAMAN & NICOBAR ISLANDS:** IAF CARNICOBAR-5, CAR NICOBAR-3, MAYA BANDAR-1, **COASTAL ANDHRA PRADESH:** TADA-8, SULLURPETA-5, GUDUR-1, **RAYALASEEMA:** SATYAVEDU-2, THOTTAMBEDU-2, SRIKALAHASTI-1, **TAMILNADU & PUDUCHERRY:** ENNORE AWS-11, PONNERI-7, CHENNAI(N)-7, MADAVARAM AWS-7, DGP OFFICE-4, KOLAPAKKAM ARG-4, ANNA UNIVERSITY-4, ANNA UTY ARG-4, ARANMANAIPUDUR-4, THAMARAIPAKKAM-4, CHOLAVARAM-3, RED HILLS-3, CHENNAI AP-3, TARAMANI ARG-3, TIRUVALLUR-2, TAMBARAM-1, MAHABALIPURAM-1,

CHEMBARABAKKAM-1, POONAMALLE ARG-1, POONDI-1, THIRUVALANGADU-1, SATYABAMA UTY ARG-1, **KERALA:** PEERMADE TO-3, NEDUMANGAD-1.

#### 14 NOVEMBER 2017

**ANDAMAN & NICOBAR ISLANDS:** PORT BLAIR-3, NANCOWARY-2, IAF CARNICOBAR-1, **COASTAL ANDHRA PRADESH:** SHAR-9, SULLURPETA-8, TADA-7, GUDUR-1, **RAYALASEEMA:** SATYAVEDU-5, SRIKALAHASTI-1, THOTTAMBEDU-1, PUTTUR-1, **TAMILNADU & PUDUCHERRY:** PONNERI-7, PAMBAN-6, RAMESWARAM-6, ENNORE AWS-6, PUZHAI ARG-5, RED HILLS-5, CHOLAVARAM-4, DGP OFFICE-3, THAMARAIPAKKAM-3, PARAMAKUDI-3, CHENNAI(N)-3, MADAVARAM AWS-3, ANNA UTY ARG-2, ANNA UNIVERSITY-2, POONAMALLEE-2, POONDI-2, TARAMANI ARG-2, CHENNAI AP-2, ILLAYANGUDI-2, RAMANATHAPURAM-1, TIRUVALLUR-1, POONAMALLE ARG-1, MADURAI SOUTH-1, NAMAKKAL-1, TIRUCHENGODE-1, KOLAPAKKAM ARG-1, CHITTAMPATTI-1, CHEMBARABAKKAM-1, MUSIRI-1, CHEMBARAMBAKKAM ARG-1, METTUPATTI-1, MANGALAPURAM-1, TIRUPPUR-1, SATYABAMA UTY ARG-1, ERODE-1.

#### 15 NOVEMBER 2017

**ANDAMAN & NICOBAR ISLANDS:** NANCOWARY-1, **ODISHA:** PURI-3, KRISHNAPRASAD-3, ODAGAON ARG-2, GOPALPUR-2, CHHATRAPUR-2, NAYAGARH-2, BANPUR-2, DIGAPAHANDI ARG-2, RANPUR-1, BERHAMPUR-1, JAGATSINGHPUR AWS-1, PURUSHOTTAMPUR-1, SATYABADI ARG-1, NIMPARA-1, BRAHMAGIRI AWS-1, TANGI-1, CHANDIKHOL ARG-1, PARADEEP CWR-1, NARAJ-1, ASKA-1, JAIPUR-1, BOLAGARH ARG-1, DANAGADI ARG-1, CHANDBALI-1, MOHANA-1, DHENKANAL-1, DERABIS ARG-1, BALIKUDA ARG-1, MAHENDRAGARH-1, KHANDAPARA-1, ALIPINGAL-1, PIPILI-1, JAJPUR-1, CUTTACK-1, DHAMNAGAR ARG-1, AKHUAPADA-1, **HARYANA, CHANDIGARH & DELHI:** DUBWALI-2, FATEHABAD AWS-1, **PUNJAB:** KAPURTHALA AWS II-2, MOGA-2, NAKODAR-2, BHATINDA-1, JALANDHAR AWS-1, MUKTSAR-1, TARANTARAN AWS-1, MOGA AWS-1, **JAMMU & KASHMIR:** RAJOURI-1, **COASTAL ANDHRA PRADESH:** SHAR-3, ICHCHAPURAM-2, SULLURPETA-1, KALINGAPATNAM-1, MANDASA-1, PALASA-1, TADA-1, VIJAYAWADA A.P.-1, **TAMILNADU & PUDUCHERRY:** THANJAVUR-7, THANJAVUR PTO-6, VAZHAPADI-5, ADUTHURAI AWS-5, VENBAVUR-5, TIRUVAIYARU-5, PERAMBALUR-4, KALLAKURICHI-4, TIRUKATTUPALLI-4, THIRUVIDAIMARUTHUR-4, THURAIYUR-4, VALLAM-4, MANGALAPURAM-3, SANKARAPURAM-3, YERCAUD-3, ATTUR-3, JAYAMKONDAM-3, OMALUR-2, ORTHANAD-2, RED HILLS-2, KUMBAKONAM-2, VALANGAIMAN-2, MANNARGUDI-2, CHETTIKULAM-2, KODAVASAL-2, THATHIENGRPET-2, MUTHUPET-2, CHOLAVARAM-2, MADUKKUR-2, PAPANASAM (DISTRICT: THANJAVUR)-1, PANDAVAIYAR HEAD-1, ENNORE AWS-1, TOZHUR-1, THAMMAMPATTY-1, SALEM-1, RASIPURAM-1, NEEDAMANGALAM-1, PONNERI-1, TRANGAMBADI(OR)TRANQUEB-1, UTHANGARAI-1, VIRUDACHALAM-1, THIRUMANUR-1, PULLAMBADI-1, THAMARAIPAKKAM-1, TIRUVARUR-1, CHIDAMBARAM-1, METTUR-1, NANNILAM-1, SIVAGANGA-1, LALGUDI-1, SENDAMANGALAM-1, SIRKALI-1, ANAIKARANCHATRAM(KOLLID-1, K.M.KOIL-1, SENDURAI-1.

#### LEGEND

(A) / AWS--Automated Weather Station  
ARG--Automated Rain-Gauge  
SR--State Raingauge  
AP--Airport  
IAF--Indian Air Force

IMD--India Meteorological Department  
PWD--Public Works Department  
PT / PTO--Part Time Observatory  
CDR--Cyclone Detection Radar  
CWC--Central Water Commission

FMO--Flood Met. Office  
PBO--Pilot Balloon Observatory  
REV--Revenue