



Special Daily Weather Report

30 September, 2016

Monsoon Watch

- The withdrawal line of southwest monsoon continues to pass through Kupwara, Kukernag, Ludhiana, Pathankot, Churu, Phalodi and Jaisalmer. **(Fig.1)**
- Meteorological sub-division wise spatial rainfall-distribution and monsoon activity during past 24 hours ending at 08:30 hours IST of today is enclosed. **(Table.1)**
- Latest Satellite Image of INSAT 3-D is enclosed. **(Fig.2)**

Seasonal Rainfall (in mm) from 1 June to 30 September, 2016

<u>Region</u>	<u>Actual</u>	<u>Normal</u>	<u>% Departure from Long Period Average</u>
All India	862.0	887.5	-3%
East & Northeast India	1281.5	1438.3	-11%
Northwest India	584.2	615.0	-5%
Central India	1034.1	975.5	6%
South Peninsula	661.5	716.1	-8%

Weather Forecast valid upto 1430 hours IST of 05 October, 2016

- Meteorological sub-divisionwise 5-day rainfall forecast is enclosed. **(Table-2)**
- Sub-division wise rainfall recorded upto 0830 hours IST of today is enclosed. **(Annexure-1)**

Warning (Fig-3)

30th September (Day 1):

- Heavy rain at isolated places very likely over East Madhya Pradesh, Vidarbha, south Chhattisgarh, Odisha, north Coastal Andhra Pradesh and Andaman & Nicobar Islands.

1st October (Day 2):

- Heavy rain at isolated places very likely over West Madhya Pradesh, Vidarbha, Odisha, Marathwada, north Coastal Andhra Pradesh and Andaman & Nicobar Islands.

2nd October (Day 3):

- Heavy to very heavy rain at isolated places very likely over Andaman & Nicobar Islands; heavy at isolated places over Vidarbha, north Madhya Maharashtra, Marathwada, Konkan & Goa and Telangana.

3rd October (Day 4):

- Heavy rain at isolated places very likely over Gujarat, north Madhya Maharashtra, Konkan & Goa and Telangana.

4th October (Day 5):

- Heavy rain at isolated places very likely over Gujarat.

Weather Outlook for subsequent 2 days (from 05 October to 07 October, 2016)

- Rain at many places very likely over north peninsula & adjoining central India and Andaman & Nicobar Islands.
- Rain at a few places very likely over northeast and east India.

Legend:

Probability of occurrence	Terminology	Probability of occurrence	Terminology
Less than 25%	unlikely	51-75%	Very likely
25-50%	likely	Above 75%	Most likely

Note: This is the last Special Daily Weather Report of the Southwest Monsoon Season-2016.

Fig-1

Withdrawal of Southwest Monsoon 30 September 2016

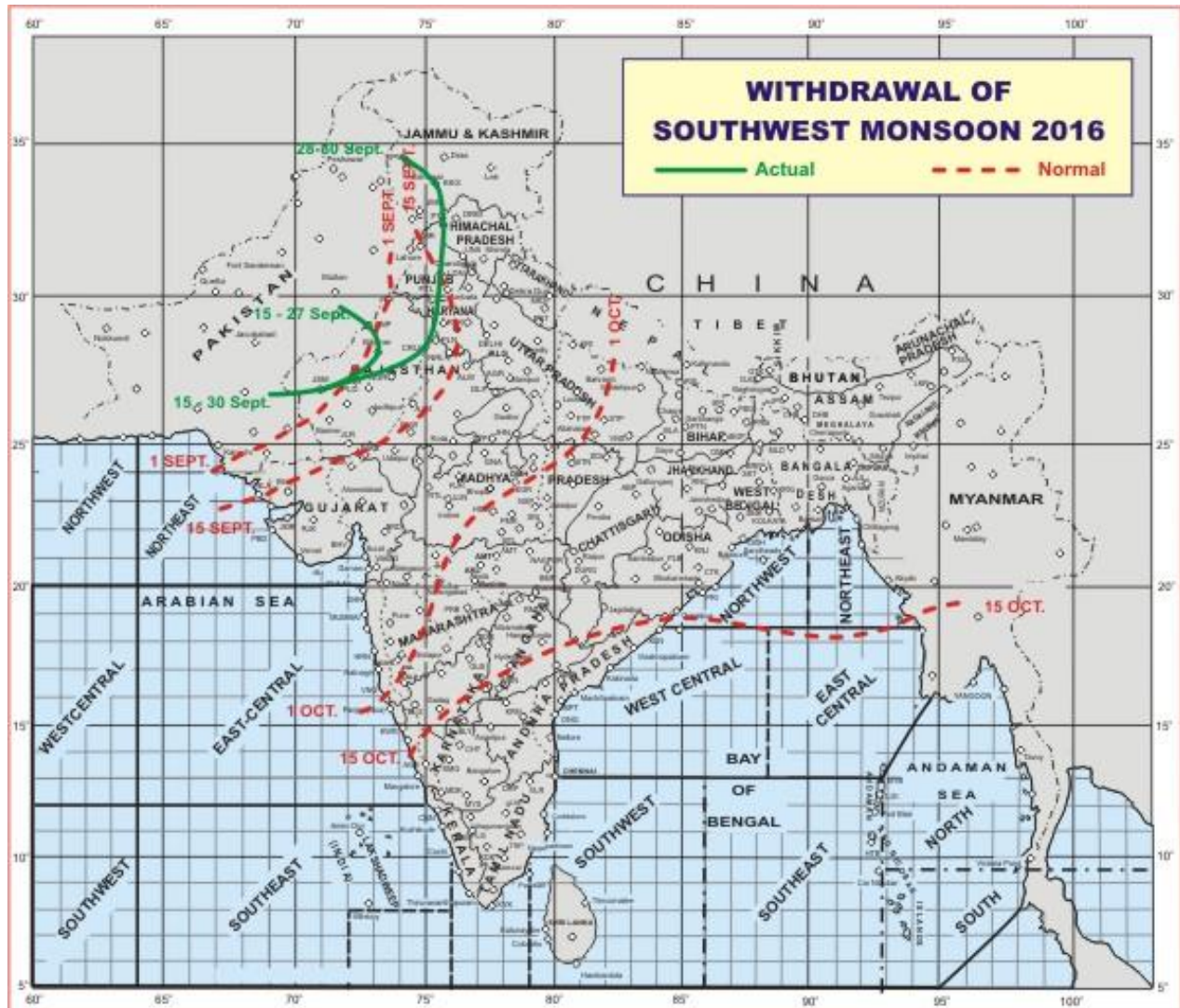


Table-1

RAINFALL DISTRIBUTION & MONSOON ACTIVITY

30 September 2016

S.No.	METEOROLOGICAL SUB-DIVISIONS	DISTRIBUTION	ACTIVITY
1	ANDAMAN & NICOBAR ISLANDS	WS	NORMAL
2	ARUNACHAL PRADESH	SCT	
3	ASSAM & MEGHALAYA	SCT	NORMAL
4	NAGA.MANI.MIZO. & TRIPURA	SCT	NORMAL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	NORMAL
6	GANGETIC WEST BENGAL	SCT	
7	ODISHA	SCT	NORMAL
8	JHARKHAND	ISOL	NORMAL
9	BIHAR	ISOL	NORMAL
10	EAST UTTAR PRADESH	ISOL	
11	WEST UTTAR PRADESH	DRY	
12	UTTARAKHAND	ISOL	
13	HARYANA CHANDIGARH & DELHI	ISOL	NORMAL
14	PUNJAB	ISOL	
15	HIMACHAL PRADESH	ISOL	
16	JAMMU & KASHMIR	ISOL	
17	WEST RAJASTHAN	DRY	
18	EAST RAJASTHAN	ISOL	
19	WEST MADHYA PRADESH	ISOL	
20	EAST MADHYA PRADESH	FWS	ACTIVE
21	GUJARAT REG. D.D. & NAGAR HAVELI	DRY	
22	SAURASHTRA KUTCH & DIU	DRY	
23	KONKAN & GOA	ISOL	
24	MADHYA MAHARASHTRA	ISOL	
25	MARATHAWADA	ISOL	NORMAL
26	VIDARBHA	WS	VIGOROUS
27	CHHATTISGARH	FWS	VIGOROUS
28	COASTAL ANDHRA PRADESH	FWS	NORMAL
29	TELANGANA	ISOL	
30	RAYALASEEMA	ISOL	
31	TAMILNADU & PUDUCHERRY	SCT	NORMAL
32	COASTAL KARNATAKA	ISOL	
33	NORTH INTERIOR KARNATAKA	SCT	
34	SOUTH INTERIOR KARNATAKA	SCT	
35	KERALA	SCT	NORMAL
36	LAKSHADWEEP	ISOL	
LEGENDS:			
WS	WIDE SPREAD / MOST PLACES (76-100%)	ISOL	ISOLATED (UP TO 25%)
FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)	DRY	NO STATION REPORTED RAINFALL
SCT	SCATTERED / FEW PLACES (26% to 50%)	N	NORMAL
ACTIVE (R/F 1 ¹ / ₂ - 4 TIMES THE NORMAL WITH WS/FWS, AT LEAST 2 STATIONS SHOULD BE 5 CM. ALONG WEST COAST & 3 CM. ELSEWHERE)			
VIGOROUS (R/F MORE THAN 4 TIMES THE NORMAL WITH WS/FWS, AT LEAST 2 STATIONS SHOULD BE 8 CM. ALONG WEST COAST & 5 CM. ELSEWHERE)			

Fig-2

Latest Satellite Image of INSAT 3-D

30 September 2016

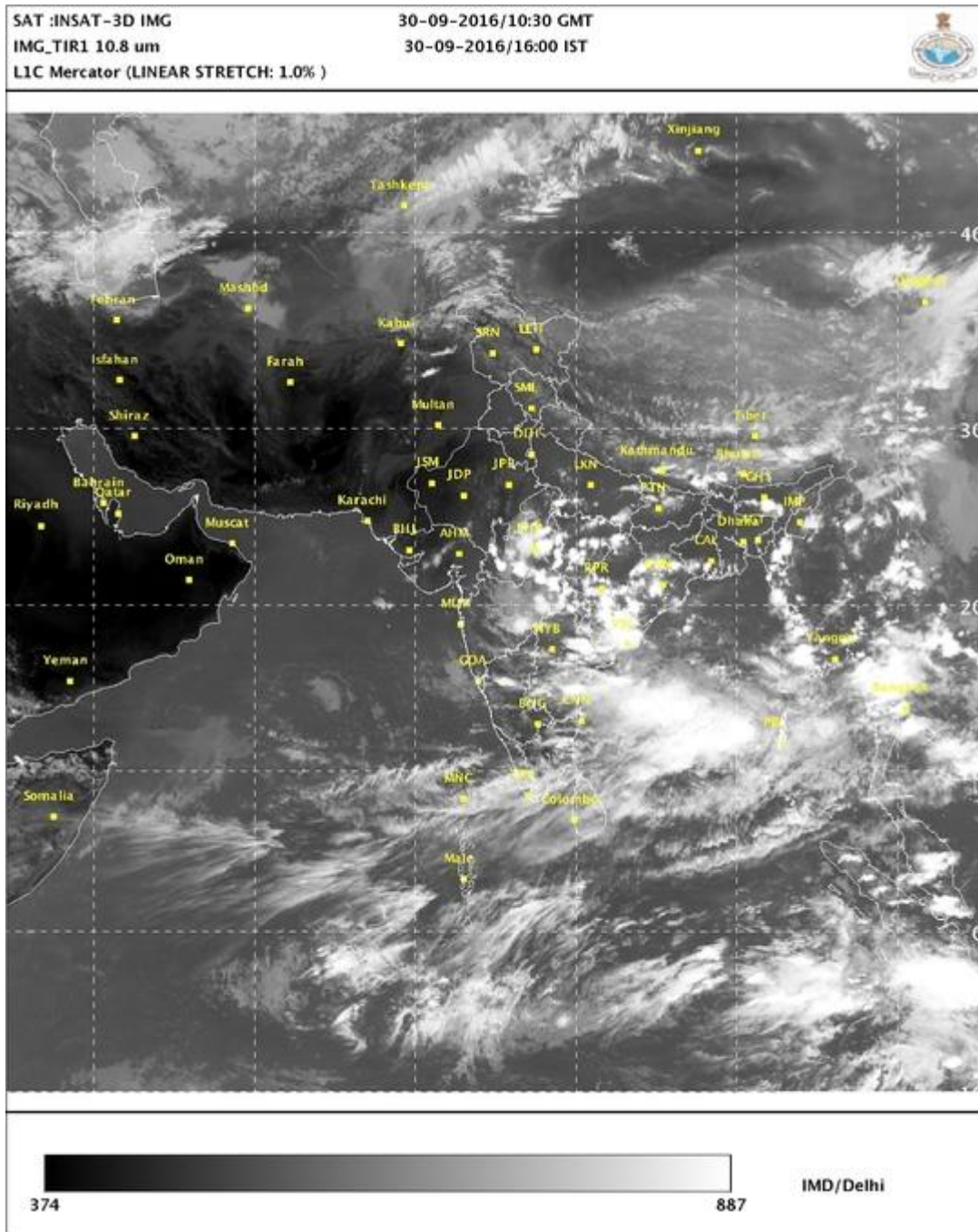


Table-2

5-Day Rainfall Forecast

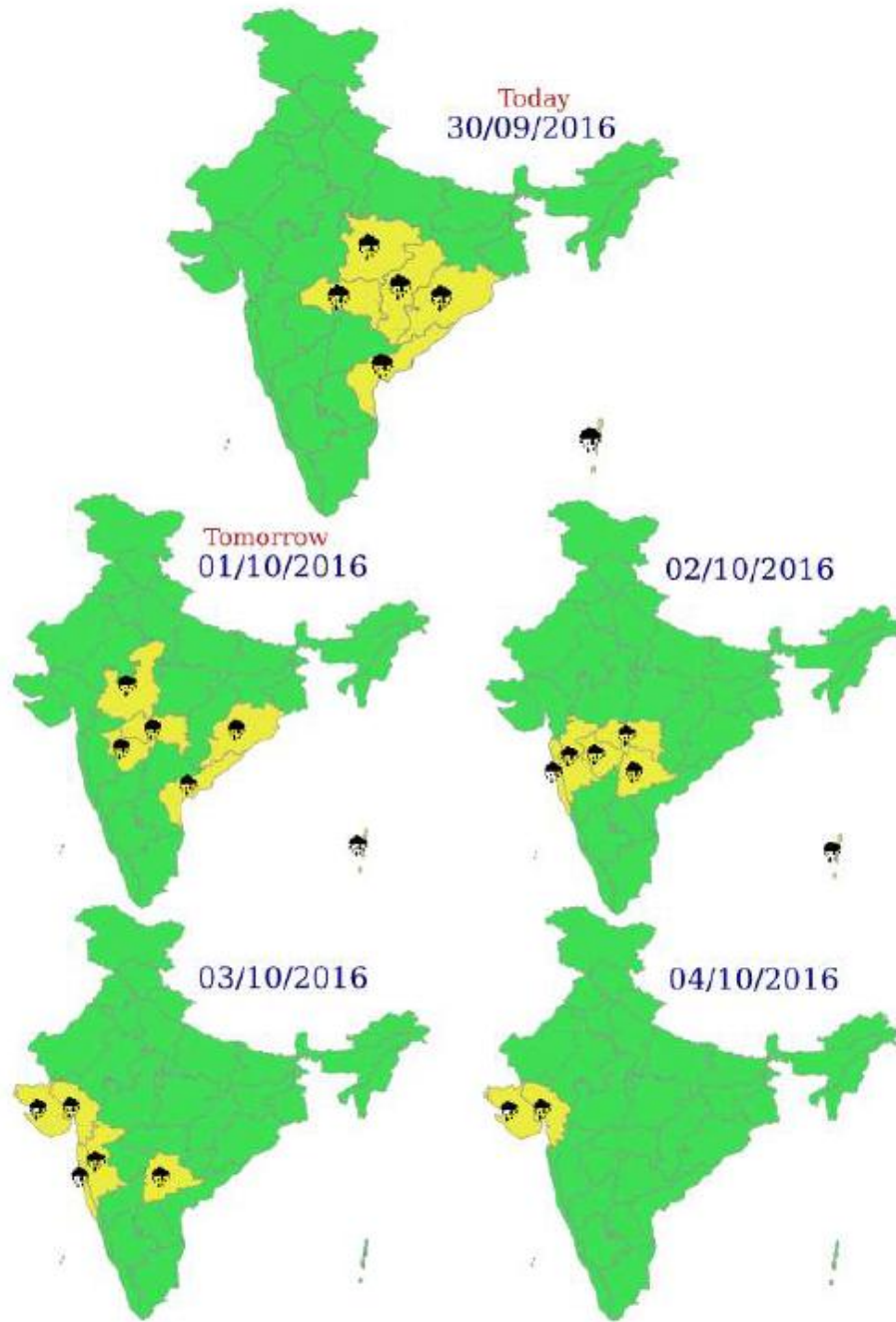
Met-Sub-Division	30-Sep Today	01Oct Sat	02Oct Sun	03Oct Mon	04Oct Tue
1. Andaman & Nicobar Islands	WS	WS	WS	FWS	FWS
2. Arunachal Pradesh	ISOL	SCT	SCT	SCT	SCT
3. Assam & Meghalaya	SCT	SCT	SCT	FWS	FWS
4. N. M. M. & T.	SCT	SCT	SCT	FWS	FWS
5. S.H. West Bengal & Sikkim	SCT	SCT	SCT	SCT	SCT
6. Gangetic West Bengal	SCT	SCT	ISOL	ISOL	SCT
7. Odisha	FWS	FWS	SCT	SCT	SCT
8. Jharkhand	SCT	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
12. Uttarakhand	ISOL	ISOL	SCT	SCT	ISOL
13. Haryana, Chd & Delhi	DRY	ISOL	ISOL	ISOL	ISOL
14. Punjab	DRY	DRY	ISOL	ISOL	ISOL
15. Himachal Pradesh	DRY	DRY	ISOL	ISOL	ISOL
16. Jammu & Kashmir	DRY	DRY	DRY	DRY	DRY
17. West Rajsthan	DRY	ISOL	ISOL	ISOL	ISOL
18. East Rajasthan	ISOL	ISOL	SCT	SCT	ISOL
19. West Madhya Pradesh	SCT	FWS	FWS	FWS	SCT
20. East Madhya Pradesh	FWS	FWS	SCT	SCT	SCT
21. Gujarat Region	DRY	ISOL	SCT	FWS	FWS
22. Saurashtra & Kutch	DRY	ISOL	ISOL	SCT	FWS
23. Konkan & Goa	ISOL	SCT	FWS	FWS	FWS
24. Madhya Maharashtra	ISOL	FWS	FWS	FWS	SCT
25. Marathwada	ISOL	FWS	WS	FWS	SCT
26. Vidharbha	WS	WS	FWS	FWS	SCT
27. Chhattisgarh	FWS	FWS	FWS	SCT	SCT
28. Coastal Andhra Pradesh	FWS	FWS	FWS	SCT	SCT
29. Telangana	SCT	SCT	FWS	FWS	SCT
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	SCT	SCT	SCT	ISOL	ISOL
33. North Interior Karnataka	SCT	SCT	SCT	ISOL	ISOL
34. South Interior Karnataka	SCT	ISOL	ISOL	ISOL	ISOL
35. Kerala	SCT	ISOL	ISOL	ISOL	ISOL
36. Lakshadweep	SCT	ISOL	ISOL	ISOL	ISOL

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Fig-3

Warning



Most Vigil (Take Action)	Keep Vigil (Be prepared/updated)
Be aware (Be updated)	No Warning

- | | | | |
|--|--|--|--|
|  Heavy Rain |  Heavy Snow |  Thunderstorm |  Dust Storm |
|  Strong Winds |  Visibility |  Cyclone |  Squall/ Hail |
|  Frost |  Cold Wave |  Heat Wave |  Sea State |

Annexure-1

Significant amounts of rainfall (in cm) (From 0830 hours IST of yesterday to 0830 hours IST of today) 30 SEPTEMBER 2016

ANDAMAN & NICOBAR ISLANDS:

PORT BLAIR	11
HUT BAY	3
MAYA BANDAR	1
NANCOWARY	1

ARUNACHAL PRADESH:

SEPPA	1
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ASSAM & MEGHALAYA:

NAHAR KATIA	3
SILCHAR	3
GOSSAIGAON	3
DILLIGHAT	3
BEKY RLY.BRIDGE	2
BARPETA	2
LAKHIPUR	2
NUMALIGARH	2
MARGHERITA	2
B P GHAT	2
DHOLAI	1
BADATIGHAT	1
KHOWANG	1
DHUBRI_IMD	1
MATIJURI	1
DHUBRI_CWC	1
NEAMATIGHAT	1
A P GHAT	1
LUMDING	1

NAGALAND, MANIPUR, MIZORAM & TRIPURA:

KIPHIRE_AWS	4
SAIHA_AWS	2
LUNGLEI_AWS	2
LUNGLEI	1
AIZWAL	1
PHEK_AWS	1

SUB-HIMALAYAN WEST BENGAL & SIKKIM:

CHENGMARI/DIANA	9
BUXADUAR	4
CHUNGTHANG	3
CHEPAN	3
COOCH BEHAR	3
PEDONG	3
DAMTHANG	3

ALIPURDUAR (CWC)	3
MALDA	2
BAROBHISHA	2
KUMARGRAM	2
BAGDOGRA IAF	1
MURTI	1

GANGETIC WEST BENGAL:

RAMPURHAT (DRMS)	6
KANDI	5
TILPARA BARRAGE	3
MURARAI	1
CONTAI	1
TAMLUK AWS	1
CANNING	1
BARRACKPUR(IAF)	1
SURI (CWC)	1

ODISHA:

JAGANNATH PRASAD ARG	9
BANPUR	5
RAJKANIKA	5
ATHMALIK	5
TIRTOL ARG	5
KEIRI AWS	4
SUKINDA	4
BINJHARPUR ARG	4
BHAWANIPATNA	3
BALIPATNA ARG	3
R.UDAIGIRI	3
JENAPUR	3
CHANDBALI	3
RENGALI	3
BASUDEVPUR AWS	2
TANGI	2
UMARKOTE	2
PARALAKHEMUNDI	2
AMBADOLA	2
ALIPINGAL	2
BHUBANESWAR AERO	2
BONTH	2
JOSHIPUR	2
KALINGA	2
BHADRAK AWS	2
PURUSHOTTAMPUR	2
BARII ARG	2
KANTAPADA ARG	2
KANTAMAL	2

TENSA	2
BARIPADA	2
ANANDPUR	2
GUNUPUR	2
NARAJ	2
JAGATSINGHPUR AWS	1
KOREI ARG	1
KASHIPUR	1
JAJPUR	1
PATTAMUNDAI	1
MAHENDRAGARH	1
BHUBAN ARG	1
BOLAGARH ARG	1
SALEPUR ARG	1
KOTRAGUDA	1
NUAGADA ARG	1
ANGUL	1
MADHABARIDA	1
UDALA	1
KAPTIPADA ARG	1
MALKANGIRI	1
BALIKUDA ARG	1
JAMSOLAGHAT	1
RAJGHAT	1
DAITARI	1
BHOGRAI	1
AKHUAPADA	1

JHARKHAND:

HUNTERGANJ	5
MAHESHPUR	4
JARMINDI	4
DUMKA	4
MOHARO	2
PAKURIA	2
AMRAPARA	1
CHATRA	1
MOHANPUR	1
MANATU	1
DEOGHAR	1

BIHAR:

SONO	7
AURANGABAD	4
SAMASTIPUR	4
SHEIKHPURA	4
SRIPALPUR	3
GARHI	3

BHIMNAGAR	3	REHLI	1	CHANDUR BAZAR	2
MORWA/TAJPUR<	3	PATAN	1	ARMORI	2
SHERGHATI	3	SEONI-AWS	1	SHEGAON	2
BARH	3	MANDLA-AWS	1	BHADRAVATI	1
GAYA AERO	2	BALAGHAT-AWS	1	AMRAOTI	1
PATNA AERODROME	2	CHINDWARA-AWS	1	HINGNA	1
DEO	2	MADHYA MAHARASHTRA:		KATOL	1
CHENARI	2	SHIRUR GHODNADI	1	RAMTEK	1
MAHESHI	2	RAVER	1	AHIRI	1
RAFIGANJ	2	PARNER	1	NAGBHIR	1
KHAGADIA	2	MARATHWADA:		GADCHIROLI	1
SIRMARI B.PUR	2	GANGAKHED	5	GONDPIPRI	1
CHERIA B.PUR I	2	AHMEDPUR	3	ETAPALLI	1
DEHRI	2	PALAM	2	KARANJALAD	1
PALMERGANJ	1	PARBHANI - IMD OBSY	1	SAMUDRAPUR	1
BANKA	1	VIDARBHA:		MUL	1
BARBIGHA	1	WANI	6	NARKHEDA	1
ISLAMPUR	1	DHAMANGAON RLWY	5	DARWHA	1
JHAJHA	1	BALLARPUR	5	CHIKHLI	1
TRIBENIGANJ	1	HINGANGHAT	5	NAGPUR AERODROME	1
JAMUI	1	ARVI	5	MOHADI	1
EAST UTTAR PRADESH:		KORPANA	5	CHANDRAPUR	1
MAU TEHSIL	2	NANDGAONKAZI	5	UMRER	1
MOHAMMEDABAD (Y)	2	TIWSA	5	NARKHED ARG	1
HARYANA, CHANDIGARH & DELHI:		MULCHERA	4	DEORI	1
DELHI (JAFARPUR) AWS	1	CHANDUR RLWY	4	MALKAPUR	1
EAST RAJASTHAN:		SADAKARJUNI	4	BRAMHAPURI	1
NAGAR SR	1	BABULGAON	4	BHAMRAGAD	1
WEST MADHYA PRADESH:		SAOLI	4	KURKHEDA	1
PANDHANA	2	RAJURA	4	BULDHANA (AWS)	1
KHANDWA-AWS	1	DHANORA	4	BULDANA	1
PACHMARHI	1	BHANDARA	3	SAKOLI	1
BURHANPUR	1	NANDURA	3	BHANDARA (AWS)	1
BETUL-AWS	1	WARORA	3	CHHATTISGARH:	
BHAINSDEHI	1	LAKHANI	3	MANA-RAIPUR-AP	9
EAST MADHYA PRADESH:		WARUD	3	RAIPUR	7
REWA-AWS	10	NER	3	MAHASAMUND	7
BICHHIA	3	ASHTI	3	AMBAGARH CHOWKI	6
DAMOH-AWS	3	YEOTMAL	3	JANAKPUR	6
GOTEGAON	3	TUMSAR	2	DONDILOHARA	4
GADARWARA	3	BALAPUR	2	KAWARDHA	3
MALANJKHAND	3	KAMPTEE	2	SARAIPALI	3
GARHAKOTA	2	SINDEWAHI	2	BALOD	3
NARSINGHPUR-AWS	2	MORSI	2	BEMETARA	3
UMARIA-AWS	2	JOITI	2	GARIABUND	2
NAINPUR	2	CHAMORSHI	2	AMBIKAPUR (DISTRICT:	
WARASEONI	2	MAUDA	2	SURGUJA)	1
SIDHI-AWS	1	MAREGAON	2	MUNGELI	1
		TELHARA	2	MANENDRAGARH	1
		PERSEONI	2	JANJGIR	1
		KUHI	2	ARANG	1
				RAJNANDGAON	1
				DONGARGARH	1

COASTAL ANDHRA PRADESH:

PATHAPATNAM	13
ICHCHAPURAM	6
GANTYADA	5
PALASA	4
GAJAPATHINAGARAM	3
REPALLE	3
SOMPETA	3
ELURU	2
DENKADA	2
POLAVARAM	2
SRUNGAVARAPUKOTA	2
KAIKALUR	2
SEETHANAGARAM	2
BHEEMUNIPATNAM	1
TENALI	1
PUSAPATIREGA	1
KUKUNOOR	1
AVANIGADA	1
NARSIPATNAM	1
PEDDAPURAM	1
NUZVID	1
PEDDAPURAM(A)	1
KOMARADA	1

TELANGANA:

PALAWANCHA	4
KONDURG	3
YELLANDU	2
PARGI(ARG)	2
BHADRACHALAM	2
CHENNUR	2
KOTHAGUDEM (DISTRICT:	
KHAMMAM)	1
SURYAPET	1
TEKULAPALLE	1
ASWARAOPETA	1
NAGARJUNSAGAR	1
DUMMUGUDEM	1
CHANDRUGONDA	1
BURGAMPADU	1
BONAKAL	1
ASWARAOPET(A)	1
KUSUMANCHI	1
KAMPASAGAR(A)	1
MULAKALAPALLE	1
KOTGIRI	1
ASWAPURAM	1
MADHIRA	1

RAYALASEEMA:

GUDUR	2
VENKATAGIRI KOTA	2
AGALI	2

DHONE	1
ANANTPUR	1

TAMILNADU & PUDUCHERRY:

THANJAVUR	10
CHENGALPATTU	8
NANNILAM	6
MAHABALIPURAM	6
CHETTIKULAM	6
ARIYALUR	5
VALANGAIMAN	5
PAPANASAM (DIST: THANJAVUR)	5
TIRUVADANAI	5
ARAKONAM	5
KANCHEEPURAM	5
KODUMUDI	4
TIRUVAIYARU	4
KAVERIPAKKAM	4
TIRUKATTUPALLI	4
SENDURAI	4
NEEDAMANGALAM	3
TOZHURUR	3
CHIDAMBARAM	3
TIRUKOILUR	3
THIRUKOILUR ARG	3
PADALUR	3
RASIPURAM	3
THANJAVUR PTO	3
VEDARANYAM	3
CHIDAMBARAM AWS	3
TIRUVARUR	3
SRIPERUMBUDUR	3
PARANGIPETTAI	3
THIRUMANUR	2
KODAVASAL	2
GRAND ANAICUT	2
SENDAMANGALAM	2
KARAIKAL	2
VANDAVASI	2
VALLAM	2
NEYVELI AWS	2
VALPARAI PTO	2
ARANI	2
ARUPPUKOTTAI	2
VILUPURAM	2
ULUNDURPET	2
THATHIENGRPET	2
MANAMADURAI	2
TIRUTTANI	2
VELLORE	2
THIRUCHUZH	2
PONNERI	2
KUMBAKONAM	2
VENBAVUR	2

PERAMBALUR	2
THIRUVIDAIMARUTHUR	1
SHOLINGUR	1
ADUTHURAI AWS	1
NAMAKKAL	1
KELAMBAKKAM	1
TIRUPATTUR	1
OMALUR	1
NAGAPATTINAM	1
MANNARGUDI	1
THAMARAIPAKKAM	1
THAMMAMPATTY	1
POONDI	1
SAMAYAPURAM	1
THIRUTHURAIPOONDI	1
CHEYYAR	1
TIRUVALLUR	1
PERIYAR	1
KVK KATTUKUPPAM ARG	1
MADURANTHAGAM	1
WALLAJAH	1
TIRUPATHUR PTO	1
PANDAVAIYAR HEAD	1
CHENGAM	1
COONOOR	1
KALAVAI AWS	1
UTHAGAMANDALAM AWS	1
KETTI	1
SRIMUSHNAM	1
COONOOR PTO	1
THUVAKUDI IMTI	1
ORTHANAD	1
LALGUDI	1
R.K.PET	1
KULITHALAI	1
UTHIRAMERUR	1

NORTH INTERIOR KARNATAKA:

DHARWAD PTO	4
KANABARGI AWS	4
BELAGAVI PTO	3
SHIRAHATTI	1
BELLATTI	1
RABKAVI	1
ALAND	1

SOUTH INTERIOR KARNATAKA:

CHANNAGIRI	7
BASARALU	2
BENGALURU KIAL OBSY	2
HULIKAL ARG	1
MADIKERI PTO	1
AGUMBE EMO	1

KERALA:

		PEERMADE TO	1
MANCOMPU	6	IDUKKI	1
MUNNAR KSEB	4	PUNALUR	1
ALAPUZHA	3	PIRAVAM	1
CHERTHALA	3	CHENGANNUR	1
MAVELIKARA	2	KANJIRAPPALLY	1
THODUPUZHA	2		
HARIPAD	2		
KAYAMKULAM	2		
KUMARAKAM	2		
KONNI	2		

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