

Friday, 22<sup>nd</sup> Sept 2017 (31<sup>st</sup> Bhadrapada 1939 Saka)

**Summary of observations recorded at 0830 hrs:** The well marked low pressure area over northern parts of central Madhya Pradesh and neighbourhood persists. Associated cyclonic circulation extends upto 7.6 kms a. s. l. The trough from the above system to Konkan now runs from Uttarakhand to south Konkan at 3.1 kms a. s. l. across west Uttar Pradesh, west Madhya Pradesh and north Madhya Maharashtra. The axis of monsoon trough at mean sea level now passes through Anupgarh, Jaipur, centre of well marked low pressure area, Pendra Road, Jharsuguda, Balasore and thence southeastwards to northeast Bay of Bengal. The cyclonic circulation over northwest Rajasthan and neighbourhood persists and now extends upto 0.9 km a. s. l. The cyclonic circulation extending upto 7.6 kms a. s. l. over Gulf of Siam and neighbourhood persists. A cyclonic circulation at 7.6 kms a. s. l. lies over southeast Bay of Bengal and neighbourhood. The Off shore trough at mean sea level from north Maharashtra coast to Kerala coast now seen as a feeble offshore trough from north Maharashtra coast to Karnataka coast. The western disturbance as an upper air cyclonic circulation extending between 3.1 & 5.8 kms a. s. l. over eastern parts of Afghanistan and neighbourhood now seen as a trough in mid and upper tropospheric westerlies with its axis at 5.8 kms a. s. l. roughly along Long. 65° E to north of Lat. 25° N. System is likely to move east - northeastwards. The other Western Disturbance as an upper air cyclonic circulation over eastern parts of Jammu & Kashmir and adjoining Himachal Pradesh has moved away east - northeastwards. The cyclonic circulations over (i) Assam & Meghalaya and neighbourhood & (ii) south Gujarat Region and neighbourhood have become less marked.

**The southwest Monsoon has been vigorous over Uttar Pradesh, Madhya Pradesh and Konkan & Goa and active over Bihar, Marathwada and Vidarbha. It has been subdued over Punjab, Jammu & Kashmir, west Rajasthan, Saurashtra & Kutch, Andhra Pradesh, Tamil Nadu and Interior Karnataka.**

**Cumulative Rainfall:** Total rainfall during the past 24 hours reported by 358 stations in the plains is 280.8 cms. Normal for these 358 stations is 216.9 cms.

Indian Regions	Realised rainfall & Chief amounts (in cms) during past 24 hrs
East	<p><b>many places:</b> Arunachal Pradesh, Assam &amp; Meghalaya*, Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal &amp; Sikkim, Bihar*;  <b>a few places:</b> Gangetic West Bengal, Jharkhand;  <b>isolated places:</b> Odisha*.  <i>Ramnagar 11.5, Bagaha 9.8, Phulbani 8.4, Dhemaji AWS 7.3, Bhore 6.8, Chauldhowaghat 6.0, Sukiapokhri 5.8, Jorhat 5.4, Passighat 4.9, Rajmahal 4.7, Malda 4.5, Nilgiri 3.2, Sohra (Cherrapunji) 3.1, Chottabekra 2.2, Bhograi 2.1, Gangtok 2.0, Namsai 1.8, Deomali &amp; Murarai 1.7 each, Dumka 1.6, Patna AP &amp; Rampurhat (Drms) 1.3 each, Balasore &amp; Giridih 1.2 each, Lunglei &amp; Tantloi 1.1 each, Phek AWS 0.6, Bankura 0.4, Agartala AP 0.3, Panagarh AP 0.2.</i></p>
North	<p><b>most places:</b> east Uttar Pradesh***, Uttarakhand;  <b>many places:</b> west Uttar Pradesh**;  <b>isolated places:</b> Himachal Pradesh, Jammu &amp; Kashmir, east Rajasthan.  <b>dry weather:</b> Haryana, Punjab, west Rajasthan.  <i>Kakrahi 18.1, Haidargarh 14.5, Ramnagar 14.0, Lalitpur 13.2, Shahjahanpur T 12.8, Jalalabad 9.1, Kheri Lakhimpur 7.6, Bahraich 7.1, Shajanpur 6.4, Ukhimath 5.9, Bareilly 4.9, Kotdwar 4.2, Lansdown 3.7, Bakani 3.0, Chabra &amp; Shahabad 2.7 each, Jhalarapatan 1.8, Munsyari 1.7, Dehra Dun 1.5, Jubbal 0.8, Gulmarg &amp; Rohru 0.3 each, Gulmarg AWS &amp; Kotkhai 0.2 each, Kota AP 0.1.</i></p>
Central	<p><b>most places:</b> west Madhya Pradesh#, east Madhya Pradesh*, Vidarbha*;  <b>a few places:</b> Chhattisgarh.  <i>Isagarh 26.1, Chanderi 19.8, Mungaoli 19.0, Shajapur 13.9, Khurai 9.2, Gondpipri 8.9, Nagaon 7.7, Deori &amp; Orchha 7.0 each, Khandwa 6.8, Kuhi 6.0, Chamorshi &amp; Hinganghat 5.3 each, Katghora 4.7, Raigarh 3.3, Pendra 2.8, Buldhana 2.1.</i></p>
Peninsula	<p><b>most places:</b> Konkan &amp; Goa#, Marathwada*, coastal Karnataka, Kerala;  <b>many places:</b> Madhya Maharashtra;  <b>a few places:</b> Interior Karnataka;  <b>isolated places:</b> Gujarat Region, coastal Andhra Pradesh, Telangana, Rayalaseema, Tamil Nadu.  <b>dry weather:</b> Saurashtra &amp; Kutch.  <i>Harnai 31.9, Mhasla 13.7, Chiplun 12.0, Degloor FMO 7.7, Washi 5.3, Barshi, Mahabaleshwar &amp; Varni 5.2 each, Kotgiri 5.1, Nevasa 4.8, Kallamb &amp; Khultabad 4.3 each, Ozarkheda FMO 3.5, Kaprada &amp; Madhbun 3.3 each, Nizamabad 3.1, Silvassa 2.6, Kumta 2.5, Mudubidre 2.4, Aurangabad AP 2.3, Tiruchengode 2.2, Kaikalur &amp; Thodupuzha 1.9 each, Kota &amp; Nizer 1.8 each, Tirupathi AP 1.7, Munnar KSEB, Perinthalamanna &amp; Shirali 1.5 each, Honavar 1.4, Agumbe &amp; Kodungallur 1.3 each, Tada &amp; Thiruvananthapuram AP 1.2 each, Srikalahasti &amp; Thondebhavi 1.1 each, Khajuri &amp; Pakala 1.0 each, Parvathipuram 0.9, Kammardi &amp; Langanamakki HMS 0.8 each, Bidar, Mylaudy, Tiruttani &amp; Valparai Taluk Office 0.6 each, Cholavaram, Kuzhithurai, Pallipattu &amp; Valparai 0.5 each, Kanyakumari 0.3, Londa, Madikeri &amp; Yedrami 0.2 each, Tuni 0.1.</i></p>
Islands	<p><b>most places:</b> Andaman &amp; Nicobar*.  <b>dry weather:</b> Lakshadweep.  <i>Hut Bay 10.0, Maya Bandar 4.1, Nancowry 2.3, Port Blair 0.9.</i></p>

**Legends:** : # = heavy to very heavy rain at a few places with extremely heavy rain at isolated places    \*\*\* = heavy rain at a few places with very heavy rain at isolated places  
 \*\* = heavy to very heavy rain at isolated places    + = heavy rain at isolated places.

Meteorological Office, Pune

Issued at 1245 hrs. IST

For Head, Climate Monitoring & Analysis Group,  
 Climate Research Division, Pune

Sub Division	Forecast Distribution of Rain / thundershowers for 5 days (Valid from Time of Origin upto 0830 hrs IST of next day)				
	Day 1	Day 2	Day 3	Day 4	Day 5
	22 <sup>nd</sup> Sept.	23 <sup>rd</sup> Sept.	24 <sup>th</sup> Sept.	25 <sup>th</sup> Sept.	26 <sup>th</sup> Sept.
1) Andaman / Nicobar Islands	W€	W€	W€	W€	W€
2) Arunachal Pradesh	Fw	Sc	Sc	Sc	Sc
3) Assam & Meghalaya	Fw€	Sc	Sc	Sc	Sc
4) Nagaland-Manipur-Mizoram-Tripura	Fw€	Fw	Sc	Sc	Fw
5) Sub-Himalayan West Bengal/Sikkim	W	Fw	Fw	Sc	Sc
6) Gangetic West Bengal	Sc	Sc	Sc	Sc	Sc
7) Odisha	Sc€	Sc	Sc	Sc	Sc
8) Jharkhand	Sc	Sc	Sc	Iso	Iso
9) Bihar	Fw	Sc	Sc	Sc	Sc
10) east Uttar Pradesh	Fw€	Fw€	Fw	Fw	Sc
11) west Uttar Pradesh	W€	Fw€	Fw	Iso	Dry
12) Uttarakhand	W€	W€	Fw	Sc	Iso
13) Haryana, Chandigarh & Delhi	W€	Fw€	Sc	Iso	Dry
14) Punjab	Iso	Iso	Dry	Dry	Dry
15) Himachal Pradesh	W€	W€	Fw	Iso	Dry
16) Jammu & Kashmir	Iso	Sc	Sc	Dry	Dry
17) west Rajasthan	Iso	Iso	Dry	Dry	Dry
18) east Rajasthan	Sc€	Sc	Iso	Dry	Dry
19) west Madhya Pradesh	W€	Sc	Iso	Iso	Dry
20) east Madhya Pradesh	Sc€	Iso	Iso	Iso	Iso
21) Gujarat Region	Iso	Iso	Dry	Dry	Dry
22) Saurashtra / Kutch	Dry	Dry	Dry	Dry	Dry
23) Konkan & Goa	W€	Sc	Sc	Sc	Sc
24) Madhya Maharashtra (north/south)	Sc	Sc	Sc	Sc/Fw	Sc/Fw
25) Marathwada	Fw	Iso	Iso	Iso	Sc
26) Vidarbha	Sc	Iso	Iso	Iso	Iso
27) Chhattisgarh	Sc	Sc	Iso	Sc	Iso
28) coastal Andhra Pradesh	Sc	Sc	Fw	Fw€	Fw€
29) Telangana	Sc	Sc	Fw	Fw	Fw
30) Rayalaseema	Sc	Sc	Fw€	Fw€	Fw€
31) Tamil Nadu & Puducherry	Sc	Sc€	Fw€	Fw€	Fw€
32) coastal Karnataka	W	Fw	Fw	Fw	Fw
33) north interior Karnataka	Sc	Sc	Fw€	Fw€	W€
34) south interior Karnataka	Sc	Sc	Fw€	Fw€	W€
35) Kerala	Fw	Fw	Fw	Fw	Fw
36) Lakshadweep	Sc	Sc	Fw	Fw	Fw

Legends: Probability of occurrence may be taken as **very likely** ( probability between 51 & 75%), unless specified otherwise €.....Weather warning on page 3.

**Weather Warning<sup>€</sup> (valid upto 0830 hrs IST of next day):**

**Day 1 (22<sup>nd</sup> Sept.):** Heavy to very heavy rain with extremely heavy rain at isolated places is very likely over west Uttar Pradesh and Uttarakhand.

Heavy to very heavy rain at isolated places is very likely over Himachal Pradesh and west Madhya Pradesh.

Heavy rain at isolated places is very likely over Andaman & Nicobar Islands, west Assam, Haryana, Chandigarh & Delhi, east Uttar Pradesh, east Rajasthan, east Madhya Pradesh and south Konkan & Goa.

Thunderstorm at isolated places is very likely over Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Odisha.

**Day 2 (23<sup>rd</sup> Sept.):** Heavy to very heavy rain at a few places is very likely over Uttarakhand and at isolated places over west Uttar Pradesh.

Heavy rain at isolated places is very likely over Andaman & Nicobar Islands, east Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh and Tamil Nadu.

**Day 3 (24<sup>th</sup> Sept.):** Heavy to very heavy rain at isolated places is very likely over Andaman & Nicobar Islands.

Heavy rain at isolated places is very likely over Rayalaseema, Tamil Nadu and interior Karnataka.

**Day 4 (25<sup>th</sup> Sept.):** Heavy rain at isolated places is likely over Andaman & Nicobar Islands, coastal Andhra Pradesh, Rayalaseema, Tamil Nadu and interior Karnataka.

**Day 5 (26<sup>th</sup> Sept.):** Heavy rain at isolated places is likely over Andaman & Nicobar Islands, coastal Andhra Pradesh, Rayalaseema, Tamil Nadu and interior Karnataka.

**Weather Outlook for the subsequent 2 days (27<sup>th</sup> Sept. & 28<sup>th</sup> Sept. 2017):**

A favourable interaction is taking place between the western disturbance and the well marked low pressure area over northern parts of central Madhya Pradesh. Conditions are likely to become favourable for commencement of withdrawal of south west monsoon from parts of northwest India around 28th September 2017. Rain at many places likely over Andaman & Nicobar Islands, northeast, east and peninsular India. Isolated to scattered rain likely over central and adjoining west India. Weather likely to be dry over most parts of northwest India.

**Pune, Lohegaon and Pashan observations at 0830 hrs. IST of Today.**

	Temperature (°C)					Humidity (%)				Rainfall (mm)		
	Max. past 24 hrs	Dep. from normal	Min. past 24 hrs.	Dep. from normal	Dry bulb	At 0830 hrs. IST	Dep. From normal	At 1730 hrs. IST of y'day	Dep. from normal	Past 24 hrs.	Since 1 <sup>st</sup> June	Dep. from normal
PNE	26.2	- 4.1	20.6	0.0	23.8	89	+ 5	92	+ 22	12.5	690.7	+174.1
LHG	26.5	- 3.5	20.8	+ 1.8	23.7	88	+ 3	86	+ 18	6.4	714.3	+281.2
PSN	25.6	-	18.0	-	23.0	91	-	88	-	2.0	700.5	-

**Local (Pune and neighbourhood) forecast**

Date	Max. Temp. (°C)	Min. Temp. (°C)	Weather
22.09.2017	29	20.6*	One/two spells of rain likely.
23.09.2017	30	21	Light rain likely.
24.09.2017	31	20	Light rain likely.
25.09.2017	30	20	One/two spells of rain likely.
26.09.2017	30	21	Rain / thundershowers likely.
27.09.2017	31	20	Rain / thundershowers likely.
28.09.2017	31	21	Rain / thundershowers likely.

Legends: \* = Realised minimum temperature.

Description:-	% of stations reporting weather
Widespread (W)	76 - 100
Fairly widespread (Fw)	51 - 75
Scattered (Sc)	26 - 50
Isolated (Iso)	1 - 25
Dry	No Rain
Probability Terms in %:	
unlikely	< 25
likely	between 25 & 50
very likely	between 51 & 75
most likely	>75

Rainfall / Snowfall Intensity:

Descriptive term	Rainfall amount in mms
Very light rain	trace to 2.4
Light rain	2.5 to 15.5
Moderate rain	15.6 to 64.4
Heavy rain	64.5 to 115.5
Very heavy rain	115.6 to 204.4
Extremely heavy rain	≥ 204.5
Heavy snow	6.5 to 11.5 cms water equivalent of rain
Very heavy snow	11.6 to 20.4 cms water equivalent of rain