

Saturday, 16<sup>th</sup> February 2019 (27<sup>th</sup> Magha 1940 Saka)

**Summary of observations recorded at 0830 hrs.:** The western disturbance as a cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir has moved away northeastwards. The remnant western disturbance as a trough now runs with its axis at 7.6 kms above m. s. l. roughly along Long. 76°E to the north of Lat. 28°N. System is likely to move east-northeastwards. The induced cyclonic circulation over east Rajasthan and adjoining northwest Madhya Pradesh now lies as a cyclonic circulation over northeast Uttar Pradesh and neighbourhood at 1.5 kms above m. s. l. The trough from the above system to north interior Karnataka has become less marked. The cyclonic circulation at 1.5 kms above m. s. l. over Sub-Himalayan West Bengal and adjoining west Assam persists. A cyclonic circulation extending upto 1.5 kms above m. s. l. lies over Marathwada & neighbourhood. A trough at 0.9 km above mean sea level runs from Gulf of Mannar to Telangana across interior Tamil Nadu & Rayalaseema. The cyclonic circulation over south Tamil Nadu and neighbourhood has merged with the above trough. The trough of low at mean sea level from Maldives area to Madhya Maharashtra has become less marked.

**Night temperatures** were appreciably below normal in some parts of Rajasthan, west Madhya Pradesh and Madhya Maharashtra and were below normal in some parts of Odisha, Saurashtra & Kutch, Konkan & Goa, coastal Andhra Pradesh and Telangana and in remaining parts of Rajasthan, west Madhya Pradesh and Madhya Maharashtra. Night temperatures were appreciably above normal in some parts of Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar and Uttar Pradesh and were above normal in some parts of Gangetic West Bengal, Haryana, Chandigarh & Delhi, Punjab, east Madhya Pradesh, Rayalaseema, Tamil Nadu and Kerala and in remaining parts of Assam & Meghalaya, Uttar Pradesh and Telangana. They were normal over the rest of the region. **The lowest minimum temperature recorded in the plains was 5.0°C at Sikar (east Rajasthan).**

**Dense fog observed at isolated places over Uttarakhand and Punjab; Moderate fog at many places over Haryana, Chandigarh & Delhi; at a few places over east Uttar Pradesh and east Madhya Pradesh and at isolated places over Assam & Meghalaya, Himachal Pradesh, east Rajasthan and coastal Andhra Pradesh. The Visibility observed at 0830 hours IST of today: Ludhiana and Mukteswar-50 M; Sundernagar, Solan, Tikamgarh and Varanasi-200 M each.**

Indian Regions	Realised rainfall & Chief amounts (in cms) during past 24 hrs
East	<p><b>most places:</b> Jharkhand;  <b>many places:</b> Gangetic West Bengal, Odisha;  <b>isolated places:</b> Assam &amp; Meghalaya*, Sub-Himalayan West Bengal &amp; Sikkim*, Bihar*.  <b>dry weather:</b> Arunachal Pradesh, Nagaland-Manipur-Mizoram-Tripura.  <i>Khariar 3.3, Boden ARG &amp; Rairangpur 3.1 each, Simdega 2.0, Ranchi 1.7, Keongjharagarh 1.6, Jharsuguda AP 1.5, Kharidwar, Purihansa &amp; Simula 0.7 each, Phulberia &amp; Tusuma 0.5 each, Panagarh AP 0.4, Bahalpur, Dhubri, Malda &amp; Palmerganj 0.1 each.</i></p>
North	<p><b>most places:</b> Uttarakhand*/*, Himachal Pradesh*/*;  <b>a few places:</b> Uttar Pradesh, Punjab, Jammu &amp; Kashmir*/*;  <b>isolated places:</b> Haryana.  <b>dry weather:</b> Rajasthan.  <i>Deoprayag 6.0, Dhampur 5.7, Nighasan 5.6, Keertinagar 4.8, Jogindarnagar 3.7, Bijnor 3.4, Baderwah &amp; Bahraich 3.2 each, Mukteswar 2.8, Kheri &amp; Paonta 2.6 each, Dalhousie 2.4, Dadupur 2.2, Phangota 2.0, Madhopur 1.9, Moradabad 1.6, Chhachhrauli 1.3, Kathua 0.8, Pathankot 0.6, Bareilly 0.2, Karnal 0.1.</i></p>
Central	<p><b>most places:</b> Chhattisgarh;  <b>many places:</b> east Madhya Pradesh, Vidarbha;  <b>isolated places:</b> west Madhya Pradesh*.  <i>Paraswad 3.7, Malanjhand 3.5, Bramhapuri 2.6, Rajura 1.7, Sarangarh 1.6, Ambikapur, Jashpurnagar &amp; Pathalgaon 1.5 each, Umaria 1.4, Pachmarhi 0.2, Chandrapur 0.1.</i></p>
Peninsula	<p><b>isolated places:</b> Telangana, Tamil Nadu, Kerala.  <b>dry weather:</b> Gujarat State, Konkan &amp; Goa, Madhya Maharashtra, Marathwada, coastal Andhra Pradesh, Rayalaseema, Karnataka State.  <i>Julapalle 4.0, Aryankavu 3.8, Sivagiri 3.5, Ayikudi 3.4, Metpalle &amp; Sirsilla 1.5 each, Thodupuzha 1.0, Adilabad &amp; Hyderabad 0.2 each, Kodaikanal 0.1.</i></p>
Islands	<b>dry weather</b>

**Legends:** ●/\* = rain or snow    ◆ = light rain

Meteorological Office, Pune

Issued at 1245 hrs. IST

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S No.	Sub Division Name	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
		16 Feb.	17 Feb.	18 Feb.	19 Feb.	20 Feb.
1	Andaman / Nicobar Islands	Dry	Dry	Dry	Dry	Dry
2	Arunachal Pradesh	Fw <sup>€</sup>	Fw <sup>€</sup>	Sc	Iso <sup>f</sup>	Iso <sup>f</sup>
3	Assam & Meghalaya	Fw <sup>€</sup>	Fw <sup>€</sup>	Iso	Iso <sup>f</sup>	Dry <sup>f</sup>
4	Nagaland-Manipur-Mizoram-Tripura	Iso	Sc <sup>€</sup>	Iso	Iso <sup>f</sup>	Dry <sup>f</sup>
5	Sub-Himalayan West Bengal/Sikkim	Fw <sup>€</sup>	Iso	Iso	Iso <sup>f</sup>	Dry <sup>f</sup>
6	Gangetic West Bengal	Sc <sup>€</sup>	Iso	Dry	Dry	Dry
7	Odisha	Sc <sup>€</sup>	Iso	Dry <sup>f</sup>	Dry <sup>f</sup>	Dry
8	Jharkhand	Iso <sup>€</sup>	Dry	Dry	Dry	Dry
9	Bihar	Iso	Dry	Dry	Dry	Dry
10	east Uttar Pradesh	Iso	Dry	Iso	Iso	Dry
11	west Uttar Pradesh	Dry <sup>f</sup>	Dry <sup>f</sup>	Iso	Iso	Iso <sup>€</sup>
12	Uttarakhand •/*	Iso	Dry	Sc	Sc <sup>€</sup>	Sc <sup>€</sup>
13	Haryana, Chandigarh & Delhi	Dry <sup>f</sup>	Dry <sup>f</sup>	Iso	Iso	Sc <sup>€</sup>
14	Punjab	Dry <sup>f</sup>	Dry <sup>f</sup>	Iso	Iso	Sc <sup>€</sup>
15	Himachal Pradesh •/*	Iso	Iso	Sc <sup>€</sup>	Fw <sup>€</sup>	Fw
16	Jammu & Kashmir •/*	Dry	Sc <sup>€</sup>	W <sup>€</sup>	Fw	Fw
17	west Rajasthan	Dry <sup>f</sup>	Dry <sup>f</sup>	Iso	Iso <sup>€</sup>	Sc <sup>€</sup>
18	east Rajasthan	Dry <sup>f</sup>	Dry <sup>f</sup>	Iso	Iso <sup>€</sup>	Sc <sup>€</sup>
19	west Madhya Pradesh	Dry	Dry	Dry	Dry	Iso <sup>€</sup>
20	east Madhya Pradesh	Iso	Dry	Dry	Dry	Iso <sup>€</sup>
21	Gujarat Region	Dry	Dry	Dry	Dry	Dry
22	Saurashtra / Kutch	Dry	Dry	Dry	Dry	Dry
23	Konkan & Goa	Dry	Dry	Dry	Dry	Dry
24	Madhya Maharashtra	Dry	Dry	Dry	Dry	Dry
25	Marathwada	Dry	Dry	Dry	Dry	Iso
26	Vidarbha	Iso	Dry	Dry	Dry	Iso
27	Chhattisgarh	Sc <sup>€</sup>	Dry	Dry	Dry	Dry
28	coastal Andhra Pradesh	Iso	Iso	Dry	Dry	Dry
29	Telangana	Iso <sup>€</sup>	Dry	Dry	Dry	Dry
30	Rayalaseema	Dry	Dry	Dry	Dry	Dry
31	Tamil Nadu & Puducherry	Iso <sup>€</sup>	Iso <sup>€</sup>	Iso	Iso	Dry
32	coastal Karnataka	Dry	Dry	Dry	Dry	Dry
33	north interior Karnataka	Dry	Dry	Dry	Dry	Dry
34	south interior Karnataka	Iso	Dry	Dry	Dry	Dry
35	Kerala	Iso <sup>€</sup>	Iso <sup>€</sup>	Iso	Iso	Dry
36	Lakshadweep	Dry	Dry	Dry	Dry	Dry

**Legends:** Probability of occurrence may be taken as **very likely** ( probability between 51 & 75%), unless specified otherwise •/\* = rain/snow

f = shallow to moderate fog € Weather warning on page 3

A fresh western disturbance is likely to affect western Himalayan region from tomorrow evening/night onwards and adjoining plains of northwest India from 18<sup>th</sup> February. Another fresh western disturbance in quick succession is likely to affect northwest India from 20<sup>th</sup> February.

**Warning (valid upto 0830 hrs IST of next day):**

**Day 1 (16 Feb.):** Thunderstorm accompanied with hailstorm, lightning and gusty winds at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Odisha.

**Thunderstorm accompanied with lightning and gusty winds** at isolated places very likely over West Bengal & Sikkim, Jharkhand, Chhattisgarh, Telangana, Tamil Nadu and Kerala.

**Day 2 (17 Feb.):** Thunderstorm accompanied with hailstorm, lightning and gusty winds at isolated places very likely over Jammu & Kashmir.

**Thunderstorm accompanied with lightning and gusty winds** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, south Tamil Nadu and Kerala.

**Day 3 (18 Feb.):** Thunderstorm accompanied with hailstorm and gusty winds at isolated places very likely over Himachal Pradesh and Jammu & Kashmir.

**Day 4 (19 Feb.):** Thunderstorm accompanied with hailstorm and gusty winds at isolated places likely over Uttarakhand, Himachal Pradesh and north Rajasthan.

**Day 5 (20 Feb.):** Thunderstorm accompanied with hailstorm and gusty winds at isolated places likely over west Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, north Rajasthan and Madhya Pradesh.

**Weather Outlook for the subsequent 2 days (21 - 22 Feb. 2019) :**

Widespread rain/snow with isolated heavy to very heavy falls likely over western Himalayan region on 21<sup>st</sup> and significant reduction on 22<sup>nd</sup> February. Isolated to scattered rain/thundershowers likely over plains of northwest and central India and isolated rain/thundershowers over northeast India and south peninsular India and Andaman & Nicobar Islands. Dry weather likely over the rest of the country.

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> Jan.	Dep. from normal
PNE	32.6	+1.0	10.3	-1.7	15.9	78	+10	28	+3	0.0	0.0	- 1.3
LHG	33.5	+0.5	13.1	-0.9	18.9	55	+1	25	+4	0.0	0.0	- 0.1
PSN	32.6	-	9.9	-	14.0	79	-	29	-	0.0	0.0	-

  

Local (Pune and neighbourhood) forecast			
Date	Max. Temp. (°C)	Min. Temp. (°C)	Weather
16.02.2019	31	10.3*	Mainly clear skies.
17.02.2019	31	10	Mainly clear skies.
18.02.2019	29	11	Partly cloudy skies.
19.02.2019	30	11	Partly cloudy skies.
20.02.2019	29	12	Partly cloudy skies.
21.02.2019	29	13	Partly cloudy skies.
22.02.2019	29	13	Partly cloudy skies.

Legends: \* = Realised minimum temperature.

	% 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
(1) Rainfall	
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
(2) Snowfall	
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