



**Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department**

Dated: 15 November, 2018

Current Weather Status & Outlook for next two weeks (16 to 29 November, 2018)

Significant Features

- o A low pressure area which formed over the Gulf of Thailand and adjoining Malay Peninsula had emerged into the Andaman Sea in the beginning of the week. Moving along the south & adjoining central parts of Bay of Bengal, it concentrated into a Depression and intensified into a Deep Depression on 10th November 2018. It further intensified into a Cyclonic Storm 'GAJA' in the early morning hours of 11th. Maintaining the same intensity, it continued to move towards the southern parts of east coast and lay over South West Bay of Bengal about 150 km east of Nagapattinam (Tamilnadu) at 1730 hrs IST of 15th November.
- o A western disturbance and an induced cyclonic circulation associated with that has caused fairly widespread to widespread precipitation over Western Himalayan region and isolated to scattered rainfall in the adjoining plains of northwest India in the second half of the week.
- o **Heavy Rainfall Activity:** Heavy to very heavy rain had been reported over Andaman & Nicobar Islands on one day and heavy rain had been reported over Tamilnadu on two days during the week.
- o **Temperature Scenario:** The lowest minimum temperature of 5.6^o C had been recorded at Mandla (East Madhya Pradesh) on 11th November 2018, over the plains of the country during the past week.

Weekly Rainfall Scenario (08 to 14 November, 2018)

During the week, rainfall was below Long Period Average (LPA) by 81 % over the country as a whole. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	1.4	7.2	-81%
Northwest India	1.5	1.5	2%
Central India	0.1	3.7	-96%
South Peninsula	4.1	21.1	-81%
East & northeast India	0.4	7.7	-94%

The Meteorological sub-division-wise rainfall for the week is given in **Annexure I**.

Post-monsoon Seasonal Rainfall Scenario (01 October to 14 November, 2018)

For the country as a whole, cumulative rainfall during post-monsoon season 2018 (01 October to 14 November, 2018) was below LPA by 53% over the country as a whole. Details of the rainfall distribution over the four broad geographical regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	46.1	97.6	-53%
Northwest India	24.0	35.2	-32%
Central India	23.5	66.3	-65%
South Peninsula	109.9	206.6	-47%
East & northeast India	57.4	147.9	-61%

Cumulative seasonal rainfall is given in **Annexure II**.

Chief synoptic conditions as on 15 November, 2018

- The Severe Cyclonic Storm 'GAJA' over Southwest Bay of Bengal is lay centred at 1730 hours IST of today, the 15th November, 2018 over Southwest Bay of Bengal near latitude 10.8°N and longitude 81.2°E, about 150 km east of Nagapattinam (Tamilnadu). It is very likely to move west-southwestwards and cross Tamilnadu coast around Nagapattinam during late evening of today, the 15th November as a Cyclonic Storm with a wind speed of 80-90 gusting to 100 kmph.
- The remnant of the above system after landfall is likely to emerge as a low pressure area over Southeast Arabian Sea around 17th November. It is likely to become more marked and move westwards during subsequent 24 hours.
- A cyclonic circulation lies over Malay Peninsula & neighbourhood extending upto 1.5 km above mean sea level.
- A north-south trough in westerlies runs roughly along longitude 88° E to the north of latitude 26° N at 5.8 km above mean sea level.
- A cyclonic circulation lies over Haryana & neighbourhood extending upto 0.9 km above mean sea level.

Large scale features as on 15 November, 2018

- Currently, neutral El Nino Southern Oscillation (ENSO) conditions are prevailing over equatorial Pacific Ocean. El Niño is likely to develop in the next couple of months.
- At present, conditions over equatorial Indian Ocean have temporarily reached to positive IOD conditions and the latest MMCFS forecast indicates present positive IOD conditions are likely to turn into neutral IOD conditions during the next month and persist thereafter.

- Madden Julian Oscillation (MJO) index is in Phase-5 with high amplitude (more than 1), it is likely to propagate further eastwards maintaining the amplitude during next 2 weeks.

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (16 to 22 November, 2018) and Week 2 (23 to 29 November, 2018)

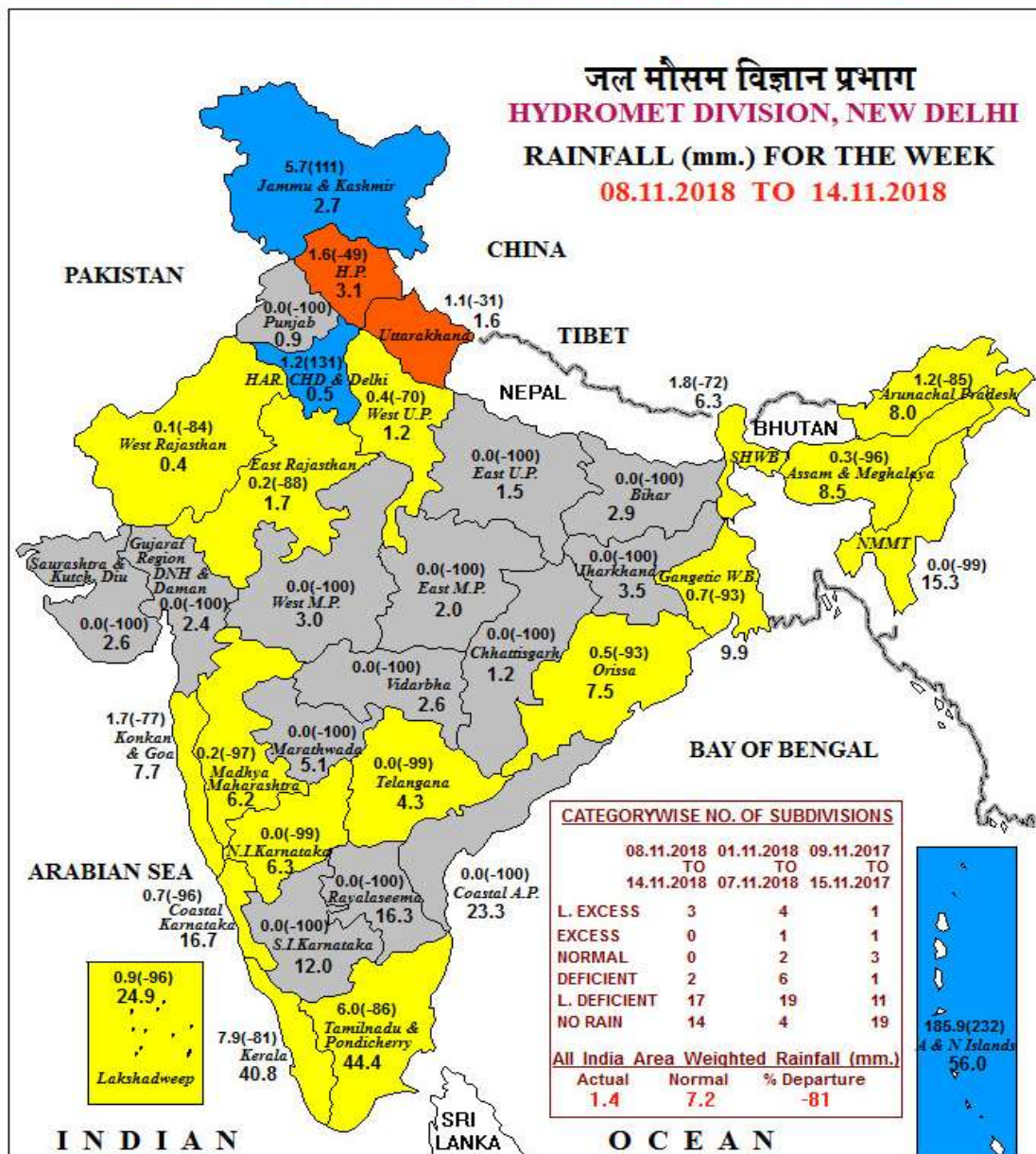
- An easterly wave very likely to affect peninsular India during 2nd half of the month; causing scattered to fairly widespread rainfall activity over Tamilnadu & adjoining south coastal Andhra Pradesh and Kerala during 16th to 22nd November; rest south peninsular India is likely to experience isolated to scattered rainfall activity during the same period. Scattered to fairly widespread rainfall activity over south peninsular India is likely during 23rd to 29th November.
- Under the influence of a fresh Western Disturbance; western Himalayan region very likely to experience isolated to scattered rain/snowfall activity mainly between 23rd to 29th November. **(Annexure III).**
- Minimum temperatures are likely to be near normal over most parts of the country between 16th to 22nd November and above normal over most parts of the country outside east India where it is likely to be near normal between 23rd to 29th November.
- Shallow to moderate fog likely at isolated pockets over northeastern states between 16th to 29th November and over plains of northwest India during Week 2.
- The weekly cumulative rainfall is likely to be above normal over extreme south Peninsular India and Andaman & Nicobar Islands between 16th to 22nd November and over south peninsular India and Jammu & Kashmir between 23rd to 29th November **(Annexure IV).**

Cyclogenesis:

- **The remnant of the cyclonic storm ‘GAJA’ after landfall is likely to emerge as a low pressure area over Southeast Arabian Sea around 17th November. It is likely to become more marked and move westwards during the subsequent 2-3 days.**

Next weekly update will be issued on next Thursday i.e. 22 November, 2018

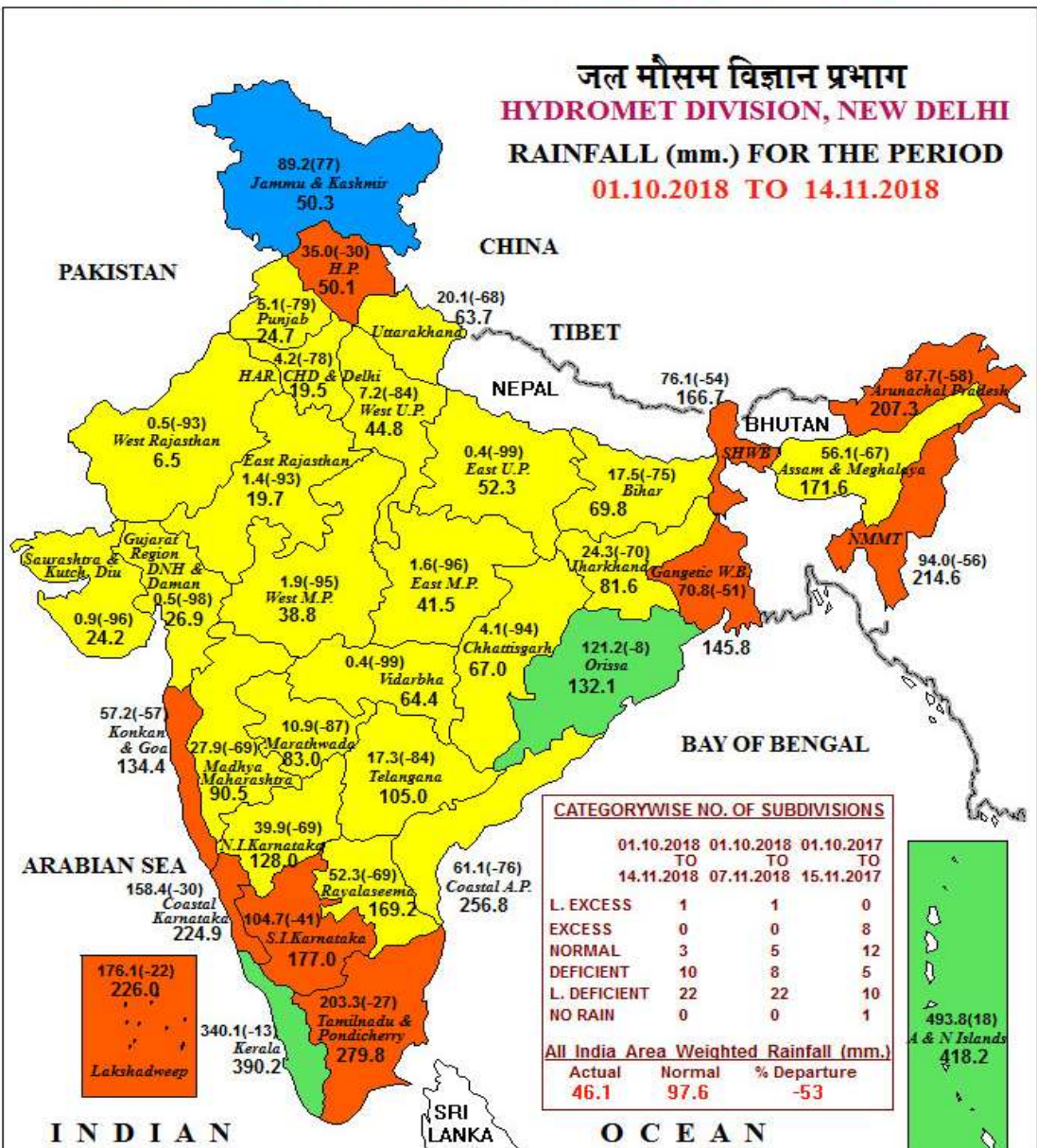
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LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

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METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2018

Sr. No	MET.SUB-DIVISIONS	15 NOV	16 NOV	17 NOV	18 NOV	19 NOV	20 NOV	21 NOV
1	ANDAMAN & NICO.ISLANDS	FWS	FWS	FWS	FWS	SCT	SCT	SCT
2	ARUNACHAL PRADESH	SCT	FWS	SCT	ISOL	ISOL	D	D
3	ASSAM & MEGHALAYA	ISOL	ISOL	ISOL	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	ISOL	D	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	ISOL	ISOL	ISOL	ISOL	D	D
6	GANGETIC WEST BENGAL	D	D	D	D	D	D	D
7	ODISHA	D	D	D	D	D	D	D
8	JHARKHAND	D	D	D	D	D	D	D
9	BIHAR	D	D	D	D	D	D	D
10	EAST UTTAR PRADESH	D	D	D	D	D	D	D
11	WEST UTTAR PRADESH	D	D	D	D	D	D	D
12	UTTARAKHAND	ISOL	D	D	D	D	D	D
13	HARYANA CHD. & DELHI	D	D	D	D	D	D	D
14	PUNJAB	D	D	D	D	D	D	D
15	HIMACHAL PRADESH	ISOL	D	D	D	D	D	D
16	JAMMU & KASHMIR	ISOL	D	D	ISOL	ISOL	D	D
17	WEST RAJASTHAN	D	D	D	D	D	D	D
18	EAST RAJASTHAN	D	D	D	D	D	D	D
19	WEST MADHYA PRADESH	D	D	D	D	D	D	D
20	EAST MADHYA PRADESH	D	D	D	D	D	D	D
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	ISOL
22	SAURASTRA KUTCH & DIU	D	D	D	D	D	D	ISOL
23	KONKAN & GOA	D	D	D	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	D	D	D	ISOL	ISOL	SCT	ISOL
25	MARATHAWADA	D	D	D	D	D	ISOL	D
26	VIDARBHA	D	D	D	D	D	D	D
27	CHHATTISGARH	D	D	D	D	D	D	D
28	COASTAL ANDHRA PRADESH	SCT *	ISOL	ISOL	ISOL	D	D	D
29	TELANGANA	D	D	D	D	D	ISOL	D
30	RAYALASEEMA	SCT *	SCT	ISOL	ISOL	ISOL	D	D
31	TAMILNADU & PUDUCHERRY	WS ***	WS **	FWS	FWS	FWS	FWS	FWS
32	COASTAL KARNATAKA	ISOL	ISOL	FWS	SCT	FWS	SCT *	ISOL
33	NORTH INT.KARNATAKA	D	ISOL	ISOL	ISOL	ISOL	ISOL	D
34	SOUTH INT.KARNATAKA	ISOL	FWS *	FWS	SCT	SCT	ISOL	ISOL
35	KERALA	SCT *	WS **	WS	FWS	WS	WS *	FWS
36	LAKSHADWEEP	ISOL	SCT	WS *	WS	FWS	SCT	ISOL

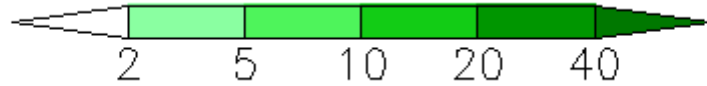
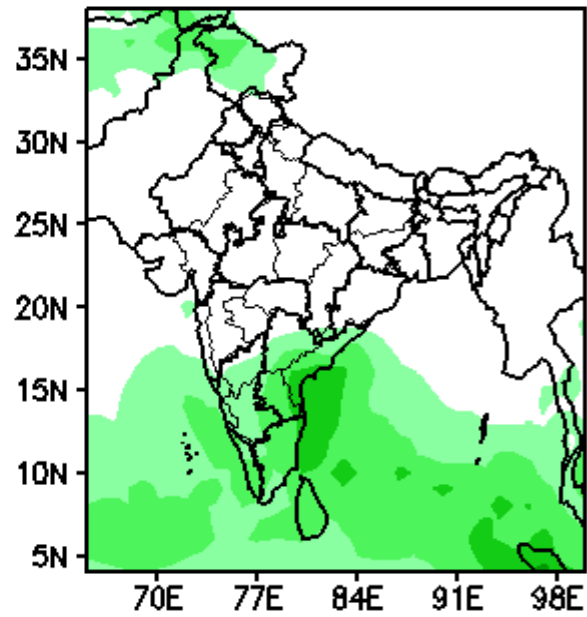
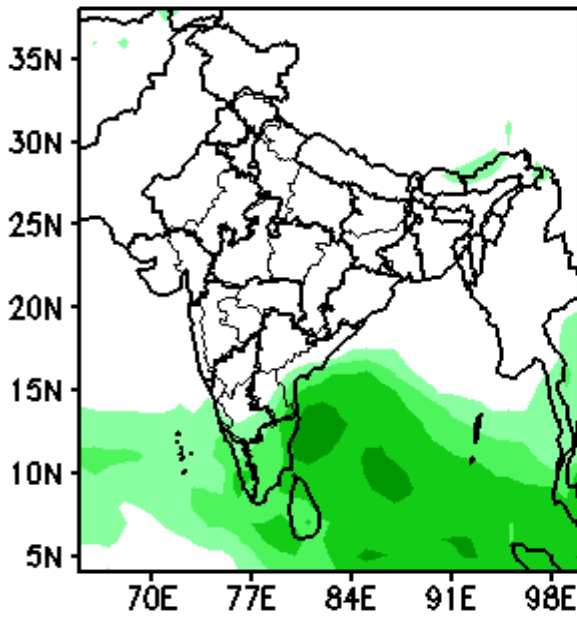
LEGENDS:

WS	WIDE SPREAD / MOST PLACES (76-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)
SCT	SCATTERED / FEW PLACES (26% to 50%)	ISOL	ISOLATED (up to 25%)
		D/DRY	NIL RAINFALL
* Heavy Rainfall (64.5-115.5 mm)	** Heavy to Very Heavy Rainfall (115.6-204.4 mm)	*** Extremely Heavy Rainfall (204.5 mm or more)	
• FOG	* SNOWFALL	# HAILSTORM	↑ HEAT WAVE (+4.5 °C to +6.4 °C)
§ THUNDERSTORM WITH SQUALL/GUSTY WIND	DS/TS DUST/THUNDERSTORM	↓ COLD WAVE (-4.5 °C to -6.4 °C)	↑ SEVERE HEAT WAVE (> +6.4)
			↓ SEVERE COLD WAVE (< -6.4)

Forecast rainfall (mm per day)

(Week 1: 16Nov–22Nov)

(Week 2: 23Nov–29Nov)



Forecast rainfall anomaly (mm per day)

(Week 1: 16Nov–22Nov)

(Week 2: 23Nov–29Nov)

