

భారత ప్రభుత్వం, భారత వాతావరణ శాఖ (భూ విజ్ఞాన మంత్రీత్వ శాఖ) వాతావరణ కేంద్రం, బేగంపేట విమానాశ్రయం, హైదరాబాద్ -500 016.	 భారత सरकार भारतीय मौसम विज्ञान विभाग (पृथ्वी विज्ञान मंत्रालय) मौसम विज्ञान केन्द्र, बेगुमपेट एअरपोर्ट, हैदराबाद - 500 016.	Government of India India Meteorological Department (Ministry of Earth Sciences) Meteorological Centre, Begumpet Airport, Hyderabad-500 016.
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Thursday, 21th July 2022

विस्तारितरेंज फॉरस्टै फ़र तेलंगाना
EXTENDED RANGE FORECAST FOR TELANGANA
(वर्तमान मौसम की स्थिति और अगले दोह प्तों के लिए दृष्टिकोण)
(Current weather status & outlook for next two weeks)

Intensity of Heavy rainfall

DATE	INTENSITY OF RAINFALL	DISTRICT
14.07.2022	EXTREMELY HEAVY	Nirmal, Nizamabad, Karimnagar.
	VERY HEAVY	Jagtial, Peddapalle, Nirmal, Nizamabad, Adilabad, Karimnagar, KumaramBheem, Rajanna Sircilla
	HEAVY	Karimnagar, Rajannasircilla, Jagtial, Nizamabad, KumaramBheem, Kamareddy, Adilabad, Mancherla, Mulugu, Nirmal, Peddapalle.
17.07.2022	HEAVY	BADRADRI KOTHAGUDEM, MULUGU
18.07.2022		Kamareddy, Jagtial, Nirmal, Nizamabad and Siddipet.

Rain occurred at most places on two days, at many places on two days, at few places on two days and at isolated places on one day over Telangana.

दिनांक 20-07-2022 को समाप्त सप्ताह के लिए वर्षा वितरण

Rainfall distribution for the week ending 20-07-2022

Date	14-July-22	15-July-22	16-July-22	17-July-22	18-July-22	19-July-22	20-July-22
TLNG	WS/VIG	FWS	ISOL	FWS/ACT	WS/ACT	SCT	SCT

Legend for Rainfall distribution: DRY : no rain, ISOL : isolated places (<=25% stations), SCT : few places (26-50% stations), WS : most places (>75% stations), FWS : many places (51-75% stations).

मुख्यसामयिक विशेषताएं औरसंबद्धमौसम:

CHIEF SYNOPTIC FEATURES AND ASSOCIATED WEATHER:

The monsoon trough passes through Jaisalmer, Kota, Guna, Sagar, Jabalpur, Pendra road, center of Low Pressure Area over north Odisha & neighborhood and thence southeastwards to Eastcentral Bay of Bengal , extends upto 1.5 km above mean sea level on 14th ,Last Weeks East- West shear zone runs roughly along 19°N between 3.1 km & 7.6 km above mean sea level across North Peninsular India on 14th and Well Marked Lopar weakened into a LOPAR on 14th Morning and lies over north Odisha & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height on 14th , lies over coastal Odisha & neighbourhood with the associated cyclonic circulation and extends upto 7.6 km above mean sea level on 15th , lies over Northwest Bay of Bengal off north Odisha-West Bengal Coasts and the associated cyclonic circulation extends upto 7.6 km above mean sea level on 16th , lies over north Odisha & neighbourhood and the associated cyclonic circulation extends upto 7.6 km above mean sea level on 17th , northeast Vidarbha & neighbourhood and the associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestward with height on 18th , An East- West shear zone runs roughly along 20°N between 4.5 km & 5.8 km above mean sea level on 19th and 20th July,2022.

स्तविक वर्षा परिदृश्य / Realized rainfall scenario:

साप्ताहिकवर्षापरिदृश्य (14 जुलाई 2022 से 20 जुलाई 2022):

During the recent past week, actual rainfall was 84.8mm against normal rainfall 47.0 mm, which was above normal Long Period Average (LPA) by 80% over the state Telangana as a whole. Out of total 33 districts, 14districts received Large excess rainfall ,04districts received excess rainfall , 08 districts received Normal rainfall and 07 districts received deficient rainfall during the recent past week.

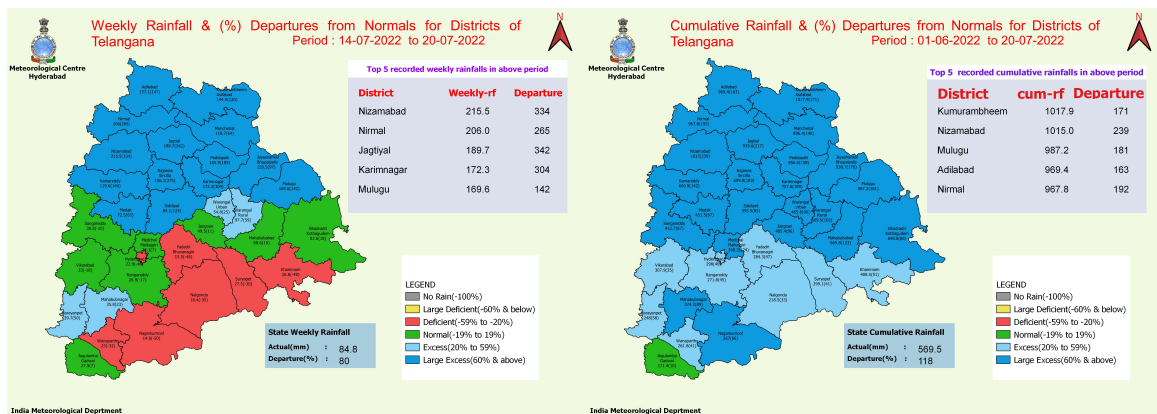
State	Actual Rainfall(mm)	Normal Rainfall(mm)	% Departure	category
Telangana	84.8	47.0	80%	Large Excess

मौसमी वर्षा परिदृश्य (01 जून 2022 से 20 जुलाई 2022):

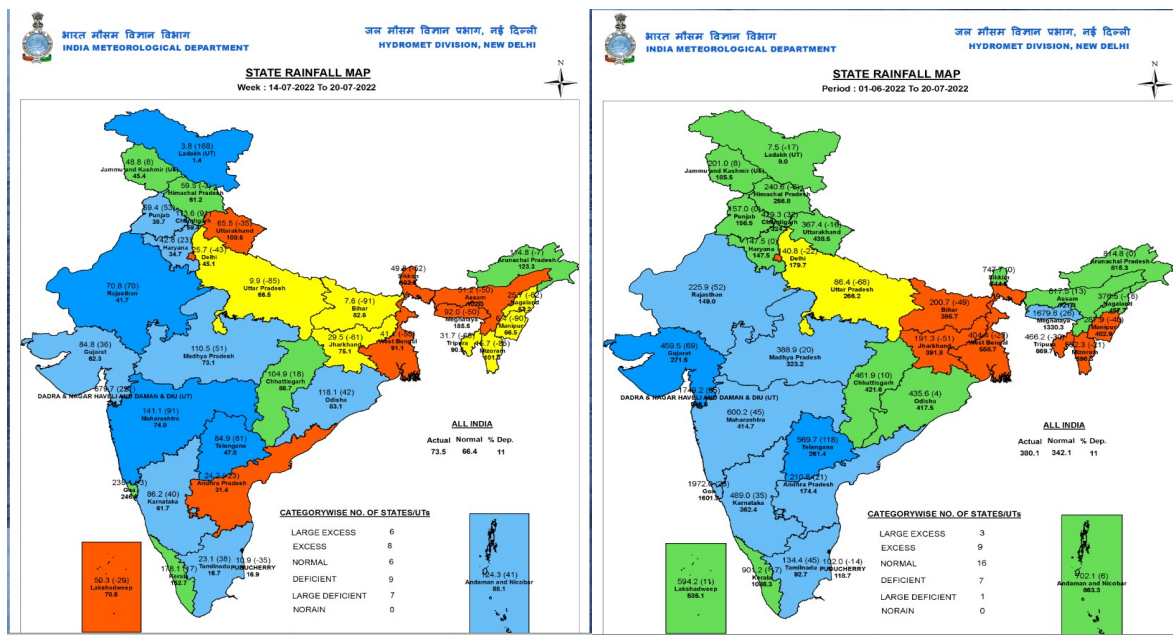
Seasonal Rainfall Scenario (01 June to 20 July, 2022):

For the state as a whole, cumulative rainfall during this season from 1st June –20th July 2022 was 569.5 mm against normal rainfall 261.4 mm, which was above normal Long Period Average (LPA) by 118% over the state as a whole. 23districts received Large excess rainfall ,09districts received excess rainfall and 01 districts received Normal rainfall during the recent past week.

State	Actual Rainfall(mm)	Normal Rainfall(mm)	% Departure	Category
Telangana	569.5	261.4	118%	Large Excess



****[For Rainfall: Large Excess:> +60% from normal; Excess: +20% to +59% from normal; Normal: - 19% to +19%; Deficient: -20% to -59% from normal; Large Deficient: >= - 60% from normal]**



बड़े पैमानेपरसुविधाएँ / Large scale features

Currently, the sea surface temperatures (SSTs) as well as the atmospheric conditions over Equatorial Pacific Ocean indicate La Niña conditions. The latest forecasts from MMCFS and other global models indicate that La Niña conditions are likely to continue during remaining part of the monsoon season. In addition to ENSO conditions over Pacific, other factors such as the Indian Ocean Sea Surface Temperatures (SSTs) also have some influence on Indian monsoon. Currently, the SST conditions over Equatorial Indian Ocean are very close to the threshold level for negative Indian Ocean Dipole (IOD) conditions. The latest forecasts from MMCFS and other global models indicate negative IOD conditions are likely to develop during remaining part of the monsoon season.

The Madden Julian Oscillation Index (MJO) currently lies in phase 1 with amplitude more than 1. It would continue in same phase during first half of week 1 with amplitude remaining more than 1. Thereafter, it would move across phases 2 & 3 during remaining part of the forecast period with amplitude remaining less than 1. Hence, MJO phase will support enhancement of convective activity over the Bay of Bengal (BoB) and the Arabian Sea (AS) from later part of week 1.

अगलेदोसप्ताहकेलिएपूर्वानुमान / Forecast for next two weeks

Under the influence of the present synoptic features, dynamical scenario and model guidance –

सप्ताह 1 केलिए वर्षा का पूर्वानुमान: (22 जुलाई, से 28 जुलाई 2022)

Rainfall forecast for week 1 (22 July, 2022 to 28 July, 2022)

- Light to moderate Rain accompanied with thundershower at many places over Telangana during week1

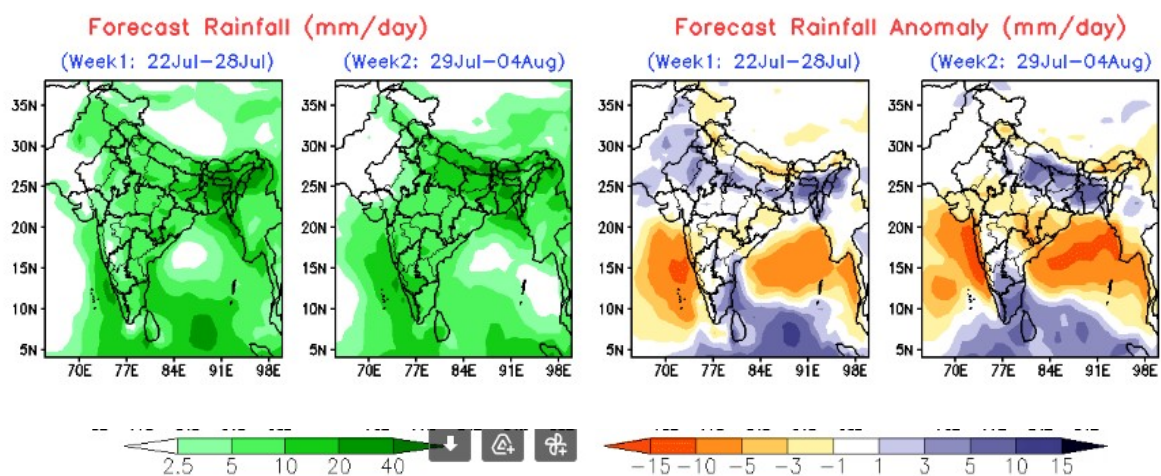
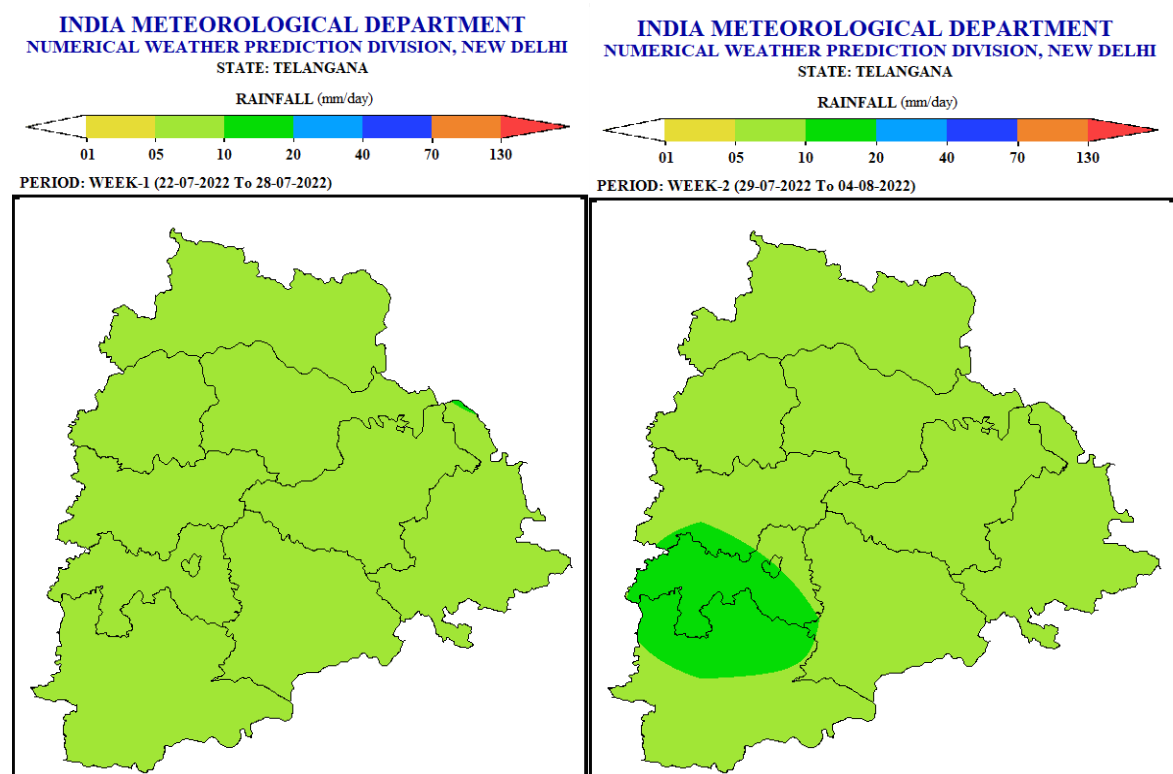
Cumulatively likely to be normal rainfall over Telangana during week1.

सप्ताह 2 केलिए वर्षा का पूर्वानुमान: (29 जुलाई, से 04 अगस्त 2022)

Rainfall forecast for week 2: (29 July, 2022 to 04 Aug, 2022)

Light to moderate Rain accompanied with thundershower at few places over Telangana during week2

Cumulatively likely to be normal rainfall over Telangana during week2.



Cyclogenesis:

The guidance from various deterministic & ensemble numerical models including IMD GFS, NCEP GFS, ECMWF, NCUM, NEPS, GEFS and IMD MME CFS(V2) etc. indicate no cyclogenesis over both the basins during entire forecast period. IMD GPP index indicates potential zone for cyclogenesis over northeast AS off south Gujarat coast on 25th July with west-northwestwards movement towards northwest AS during later part of week 1. ECMWF ensemble also indicates low probability 05-20% probability of cyclogenesis over northeast AS in the later part of week 1. Models also indicate weakening of monsoonal flow over Arabian Sea, Bay of Bengal and central India. Hence, considering the model guidance and environmental features, following inferences are drawn: i) Weak monsoon conditions are likely to prevail over the Arabian Sea, Bay of Bengal and central & southwestern parts of India commencing from later part of week 1. ii) No cyclogenesis is likely over the Bay of Bengal and the Arabian Sea during entire forecast period.

डॉ। के। नागरत्ना/ Dr. K. NagaRatna / డా.కె. నాగరత్న
वैज्ञानिक-ई /Scientist-E & Head / సైంటిస్ట్-ఇ & హెడ్
मौसम केंद्र - हैदराबाद / M.C. Hyderabad / వాతావరణ కేంద్రం - హైదరాబాద్
हैदराबाद - 500 016 / Hyderabad- 500 016 / హైదరాబాద్- 500 016

Next bulletin will be issued on 28th July, 2022 (Thursday)