भारत सरकार

Government of India केन्द्रीय जल आयोग

Central Water Commission बाढ़ पूर्वीनुमान प्रबोधन निदेशालय

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विषय : दिनाक की समाचार की कतरन (News Clippings) प्रस्तुत करने के सम्बन्ध में ।

मानसून/ बाढ़ सम्बन्धी सनाचारों की कतरन (News Clippings) अवलोकन हेतु प्रस्तुत हैं :

सलंबन : उपरोक्तानुसार

कृत्या केन्द्रीय जल आयोज की वेब साईट पर अपलोट करने की व्यवस्था करें।

निवेशक (तकनीकी प्रलेखन

दिनाकं १.२. 6. 20. को निम्निखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

Hindustan Times (Delhi)

off Maharashtra coast. northeast Arabian Sea along and kmph over east-central and to be 105-115 kmph gusting to 125 landfall by Wednesday afterpm on June 2. It is likely to make

As per the current forecast, the

The Assam Tribune (Guwahati)

over a high-power committee

precautionary measures being meeting on Monday to review the minister Vijay Rupani presided Nashik between June 3 and 4. tricts including Palghar, Thane issued a red alert for six other disment (IMD) said Monday as it extremely heavy rainfall, the experience high speed winds and

Meanwhile,

Gujarat chief

Raigad, Dhule, Nandurbar and

The Deccan Hearld (Bengluru)

on June 3; heavy rainfall, flooding of low-lying areas likely in region

Sea and Lakshadweep area will sion forming in the southeast and expected to result from a depressible severe cyclonic storm that is MUMBAI/NEW DELHI: Nisarga, a pos Badri Chatterjee, Jayashree Nand impact Mumbai city which may adjoining east-central Arabian letters@hindustantimes.com

experience high speed winds as expected. Mumbai is likely to a severe cyclone but there is a marginal reduction in wind speed the cyclone makes landfall south

system moves," she said.

India Meteorological Depart-

director general, IMD confirmed mation is available but Mumbai shared as soon as reliable inforwill be impacted," M Mohapatra, location of landfall yet. It will be "We haven't given an exact

cern over how the city, already areas especially in cities like noon could inundate low lying to make landfall on June 3 after flooded leaving lakhs stranded brings the city to a halt as train on account of Covid-19, will cope. strained for healthcare resources power poles. This has raised condamage from falling trees and Mumbai and cause structura lines, streets and drains get What's more, each year monsoon Scientists said Nisarga, likely

a severe cyclonic storm by 5.30 a cyclonic storm by 11.30 am and

the system is expected to become Saurashtra regions on June 3. istration for cyclone forecast taken by state and district admin-

According to the IMD bulletin

likely to hit South Gujarat and

noon. The wind speed is expected

day for Palghar. An orange alert day, and additionally on Thursincluding Mumbai for Wednessounded for seven districts adverse impact. It has been take action and keep safe from heavy rain of more than 204.5 mm the possibility of extremely A red alert — which indicates is a warning for residents to

hours may bring further changes be affected. However, the next 48 districts of Maharashtra, stand to Mumbai—as well as some inland coastline, which encompasses Raigad — along the Konkan Gujarat) and Harihareshwar in region between Daman (near

> to the forecast Sunitha Devi dynamic there are a few predicta-Since the Arabian Sea system is in-charge of cyclones at the IMD depending on how the [weather] changes in the coming 48 hours bility issues. There might be towards the south of Mumbai said. "The landfall is expected

of the city," Devisaid. "It will pass over this region as of Reading, UK, said.

state agencies are trying to take cases as on June 1. "Central and unable to cope with the high numwell as millions homeless - is should return immediately, Karnataka, Gujarat, Goa, and Maharashtra, age. We are advising fishermen in all steps possible to prevent damber of cases, which stood at 41,099 hospitals and care facilities are care infrastructure crunch as Mumbai is facing a severe health. still fresh in national memory bans on May 21 and left 86 dead as Amphan—which hit the Sunder the sea till June 4. Those out at sea Lakshadweep to avoid going to Kerala, coastal

storms in coming years due to of more pre-monsoon cyclonic scientists warn about possibility within two weeks of each other to be formed Cyclone Nisarga)-(Amphan) and Arabian Sea (yet cyclones — in the Bay of Benga warmer ocean temperatures. With the formation of two

tra may be affected ruch, besides Daman, Amreli and Gujarat's coastal areas of Surat, Bhavnagar districts in Saurash Navsari, Valsad, Dangs and Bha-The IMD forecast also said that

MAHA: Extremely severe cyclonic storm; October 30-November 7, 2019

PAWAN:
Cyclonic
storm:
December 2-7,
2019

Expected to be a cyclonic storm; May 30-June 4, 2020

NISARGA:

and Thane for Thursday. has been sounded for Mumba NISARGA PROGRESS Landfall expected in Maha, Gujarat coastline

coastline," Akshay Deoras, indetoral researcher at the University and fishermen who live on the huts, and thus affect poor people aging weak structures such as fall region will be capable of dam rough sea conditions in the landpendent meteorologist and doc "The wind speed along with

Mohapatra said. The experience of cyclone

VAYU: Very severe cyclonic storm, June 10-17, 2019 Very severe cyclonic storm; September 22-25, 2019 4 KYARR: Super cyclonic storm; October 24-W Nov 2, 2019

> CYCLONIC STORMS CATEGORIES OF

BEDROCK

cyclone r

The Arabian Sea witnessed 5 cyclones in 2019 equalling a 117-year-old



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Hindustan Times (Delhi) ਜਰभारत टाईम्स (दिल्ली) The Tribune (Chandigarh) The Hindu (Chennai)

Cyclone Nisarga to hit M'rashtra, Gujarattomorrow

VIBHA SHARMA
TRIBUNE NEWS SERVICE

NEW DELHI, JUNE 1

The 'depression' over east-central and adjoining south-east Arabian Sea is expected to make a landfall as 'severe cyclone' on June 3, the IMD today said. While a 'yellow' alert has been sounded for both Maharashtra and Gujarat coasts, the areas expected to be most affected are coastal parts of Maharashtra — Mumbai, Thane, Raigad, Ratnagiri and Sindhudurg districts.

If and when it intensifies into a 'cyclone', it will be named Nisarga as per the established protocol for tropical storms in the Indian Ocean region.

"According to our assessment, it may make a landfall as severe cyclone around the afternoon of June 3. The effect is expected to be more on the Maharashtra coast, Mumbai, Thane, Raigarh, Ratnagiri and Sindhudurg districts," said IMD Director General Mrutyunjay Mohapatra.

Currently positioned as 'depression', the tropical storm is "very likely to intensify into a deep depression during the next six hours and further into a cyclone during the subsequent 24 hours," says the IMD.

Notably, Bay of Bengal and Arabian Sea have witnessed "above normal" cyclogenesis in past two years. India and Bangladesh have already been hit by first major storm of the season, super cyclone Amphan.

This particular system is likely to move nearly northwards initially till the morning of June 2 then re-curve north northeastwards and cross north Maharashtra and south Gujarat coasts between Harihareshwar (Raigad, Maharashtra) and Daman during the afternoon of June 3.

The Assam Tribune (Guwahati) The Times of India (Mumbai) The Telegraph (Kolkata) ਵਿਕਤੂਦਗਰ (ਧਟਗ) The Deccan Hearld (Bengluru)
The Deccan Chronical (Hyderabad)
Central Chronical (Bhopal)

दिनाकं 🕮 🙉 को निम्निखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

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Monsoon hits Kerala, to be above normal: IMD

VIBHA SHARMA
TRIBUNE NEWS SERVICE

NEW DELHI, JUNE 1

The India Meteorological Department today declared the onset of monsoon over mainland, two days after private agency Skymet said it had arrived. The Southwest Monsoon set in over Kerala today (June 1), coinciding with its normal date, the IMD said, while upgrading its countrywide forecast to 102% of the long period average (LPA).

Issuing the long range forecast update, the weather office said rainfall over the country in June to September season is most likely to be normal (96% to 104%). Quantitatively, it is expected to be 102% of the LPA with a model error of ±4%. In its first update on 2020 monsoon in April, the IMD predicted 100% rains of the LPA with a model error of ±5%.

107% RAIN FORECAST FOR NORTHWEST

Nationwide forecast upgraded to 102% of long period average (LPA) Northwest India is expected to receive 107% of LPA this year In 2019, India received 110% of the LPA and the Northwest 98%



People look at dark clouds over Arabian Sea in Kochi on Monday. REUTERS

The region-wise forecast also has good news for the Northwest, which is expected to receive 107% of LPA this year. For Central India, rains are expected to be 103% of LPA, South Peninsula 102% and Northeast

around 96%, all with a model error of $\pm 8\%$.

In 2019, India received 110% of the LPA and the Northwest 98%. In the region comprising Punjab, Haryana, Chandigarh, Delhi, Rajasthan, western UP and the three hill states, the LPA is 599.5 mm. Last year, the region received 98% of it, that is 586 mm.

Meanwhile, in main sowing month of July, the rainfall on the whole is expected to be 103% of LPA and in August 97%, said Earth Sciences Secretary M Rajeevan. Both figures come with a model error of ±9%.

Officials said Niño-Southern Oscillation (ENSO) neutral conditions are prevailing over the equatorial Pacific and neutral IOD conditions over the Indian Ocean. Global models are indicating cool ENSO conditions will prevail during the four-month season with some possibility of development of weak La Niña conditions in the later part. "All these are signs of good monsoon rains," said Rajeevan. "ENSO neutral and weak La Nina conditions will help India get good rains," he added.

दिनाकं ०२/२६...को निम्नलिखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

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Nisarga to hit Maha tomorrow, Mumbai braces for impact

MUMBAI: Nisarga, a possible severe cyclonic storm that is expected to result from a depression forming in the southeast and adjoining east-central Arabian Sea and Lakshadweep area, will impact Mumbai city which may experience high speed winds and extremely heavy rainfall, the India Meteorological Department (IMD) said Monday as it issued a red alert for six other districts including Palghar, Thane, Raigad, Dhule, Nandurbar and Nashik between June 3 and 4.

The entire region between Daman (near Gujarat) and Harihareshwar in Raigad — comprising the Konkan coastline — as well as some inland districts of Maharashtra, stand to be affected as the cyclone may make landfall on the Maharashtra and Gujarat coasts on June 2, IMD said. "P7

GOOD NEWS FOR FARMERS

Monsoon keeps date with Kerala, IMD forecasts normal rain this year

Jayashree Nandi

letters@hindustantimes.com

NEWDELHI: The south-west monsoon made an onset over Kerala on Monday morning, keeping its normal arrival date of June 1, with heavy to very heavy rains and strong southwesterly winds blowing in many parts of the state.

The India Meteorological Department (IMD) forecast on Monday that the monsoon this year was likely to be "normal" at 102% of long period average (LPA).

According to IMD's second long-range forecast update for the monsoon, north-west India is expected to receive excess monsoon rainfall at 107% of LPA; central India is



Fishermen wait in their boats as clouds gather over Vizhinjam in Thiruvananthapuram on Monday.

likely to get 103% of LPA, while south peninsula and north-east India area likely to receive 102% and 96% of LPA, respectively.

According to IMD, the

monsoon has already advanced into all of the South Arabian Sea; Lakshadweep, most parts of Kerala and even some parts of Tamil Nadu.

FULL REPORT "P8

NewDelhi (

Was the 1882 Great Bombay Cyclone a hoax?

Badri Chatterjee

■ badri.chatterjee@hindustantimes.com

MUMBAI: As the city braces for a possible impact of the predicted cyclone making its way towards the Maharashtra coast, officials might find it hard to call upon lessons of a previous cyclone alleged to have originated in the Arabian Sea and hit the Mumbai almost 140 years ago.

Available newspaper reports from the time indicate that a tropical cyclone had made landfall on June 6, 1882 in then Bombay that led to more than 100,000 deaths. However, the Columbia University (CU), New York, the Massachusetts Institute of Technology, Cambridge, and Indian Institute of Tropical Meteorology (IITM),

Pune published a peer-reviewed research paper in May 2019 stating the event never occurred.

According to Parthasarathi Mukhopadhyay of IITM Pune, one of the contributing authors, the purported event was nothing but smoke and mirrors. "After CU professor Adam Sobel raised a query about the authenticity of the Great Bombay Cyclone, which has found its way in various research papers and books internationally, we decided to probe the source and found the entire thing was a hoax," he said.

"The most impactful cyclone of these was Phyan in November 2009, when high speed winds were recorded," he said.

The paper stated that no maps of the cyclone, a usual practise,

are available from the time. "The India Meteorological Department (IMD) has maintained archives of cyclone tracks as well as daily weather summaries from 1877-1970 for both, the Bay of Bengal and the Arabian Sea. Maps are available for all cyclones in each calendar month during 1877-1883. The map for June shows no cyclone in Arabian Sea in 1882."

LS Rathore, the former director general of IMD disagreed. "This is not a hoax. Owing to improper dissemination of information at the time, the true facts were never published or recorded. Evenifthey were, they have been lost. We were told data had been lost since the then Bombay was a much smaller city with hardly any infrastructure, and

occupations were mostly dependent on port activities, which was most impacted. One would have to speak to a historian."

City-based historian Deepak Rao said there is no comparison between the situation today with what may have happened in 1882. "Extension of Greater Mumbai, including Mumbai suburbs, started from Mahim, added only in 1945. In 1882, the seven islands were not seen together and the population would have been devastated completely if a cyclone would have taken place," he said.

Mukhopadhyay said that if more than 100,000 people had died in a city as small as south Mumbai alone, the British would have documented it as a record. "But we found nothing," he said.