

## मौसम सुहाना..

दिल्ली-एनसीआर में सोमवार शाम बारिश से लोगों को भीषण गर्मी से राहत मिली। लेकिन एनसीआर के शहरों नोएडा, गाजियाबाद और मेरठ में आंधी ने काफी तबाही मचाई। नोएडा सेक्टर 18 में होर्डिंग समेत पोल उखड़ कर सड़क पर गिरा, जिसकी चपेट में कार और दो बाइक सवार आ गए। बाइक पर सवार शख्स की मौत हो गई, जबकि इसे चला रहा युवक जखमी हो गया। कार सवार को भी चोट लगी। गाजियाबाद में भी कई जगह होर्डिंग गिरे। कुछ दिनों पहले भी यहां तीन वाहनों पर होर्डिंग गिरने से कई लोग जखमी हुए थे। आंधी से आईजीआई एयरपोर्ट पर फ्लाइट्स का ऑपरेशन पर 45 मिनट असर पड़ा। आज भी बारिश हो सकती है। (एनबीटी)

दिल्ली में बिना शेड्यूल पावर कट पर मुआवजा इसी हफ्ते से ►► पेज 3

## ...पर आंधी से नोएडा में होर्डिंग गिरा, एक मौत



आंधी से नोएडा सेक्टर 18 में एक मॉल के पास सोमवार को होर्डिंग समेत पोल गिरा

# दिल्ली के मंडे ब्लूज को हैपी आवर्स में बदला खुशनुमा मौसम ने

Photos : Sunil Kataria

**3:30** बजे दोपहर को कुछ इस तरह थी दिल्ली की फिजा



**आज भी ऐसा ही मौसम बने रहने की संभावना**

■ नगर संवाददाता, नई दिल्ली

दिल्ली में सोमवार को मौसम सुहावना हो गया। तेज आंधी चलने के साथ कई जगहों पर बारिश भी हुई। सफ़रदरज़ंग में 70 किलोमीटर और फ़ाल्गुन में 65 किमी की रफ़्तार से आंधी चली। आंधी चलने से आईजीआई एयरपोर्ट पर 3 बजे से 3:45 बजे तक फ्लाइट ऑपरेशन पर अरसर पड़ा। मौसम वैज्ञानिकों के मुताबिक मंगलवार को भी बारिश होने की संभावना है। मैक्सिमम टेम्परेचर 38 डिग्री और मिनिमम टेम्परेचर 25 डिग्री रहने का अनुमान है। 128 और 29 मई को फिर बारिश होने की संभावना है।

सोमवार को सुबह आसमान साफ़ था। दोपहर आते-आते बादल छाने शुरू हुए। इसके बाद 3 बजे से 3:45 बजे तक अंधेरा छा गया और ज़मक आंधी चली। तीन बजे हो गत जैसा अंधेरा छा गया। तेज हवाएं चलने के बाद 4:30 बजे से मौसम सामान्य हो गया और अंधेरा हट गया। 4:30 बजे के बाद ठंडी हवाएं चलने लगीं, जिससे मौसम सुहावना बन गया। सफ़रदरज़ंग में मैक्सिमम टेम्परेचर 40.9 डिग्री दर्ज हुआ। मिनिमम टेम्परेचर 30.5 डिग्री दर्ज हुआ।



दोपहर में ही घने बादल छाने से कारों की हेडलाइट्स ऑन हो गईं

फ़ाल्गुन में मैक्सिमम टेम्परेचर 42.3 डिग्री दर्ज हुआ, जो नॉर्मल से 3 डिग्री ज्यादा है। दिल्ली में कई जगहों पर बारिश हुई। सफ़रदरज़ंग में 0.8 मिमी, लोदी रोड में 0.8 मिमी, पीतामपुरा में 2 मिमी, नरेला में 1 मिमी और दिल्ली यूनिवर्सिटी में 1 मिमी बारिश दर्ज हुई। मैक्सिमम ह्यूमिडिटी 73 परसेंट दर्ज हुई। आईजीआई मेट के हेड और मौसम वैज्ञानिक डॉ. आर. के. जेन्नामने ने कहा कि फ़ाल्गुन और सफ़रदरज़ंग में 65 से 70 किमी की रफ़्तार से हवाएं चलें। फ़्लाइट के ऑपरेशन में दोपहर 3 से 3:45 बजे तक अरसर पड़ा।

स्काइमेट के मौसम वैज्ञानिक महेश फ़लावत ने कहा कि नॉर्थ रायस्थान, हरियाणा और पंजाब में चक्रवाती हवाओं का सिस्टम बना है। उत्तर भारत में भी वेस्टर्न डिस्टर्बेंस ने दस्तक दी है। इन दोनों और आंधी शुरू हो गईं। वेस्ट दिल्ली की तरफ़ बादल बने, जिसके बाद यह आगे बढ़ते हुए उत्तर प्रदेश तक भी पहुंचे। दिल्ली में दक्षिण-पश्चिम और पूर्वी दिशा से हवाएं चलीं, जिसके बाद कभी-कभी पौने छह तेज आंधी चली। इसी तरह का मौसम मंगलवार शाम को भी बना रहेगा।

News item/letter/article/editorial published on May-24-05-2016 in the

Hindustan Times ✓  
Statesman  
The Times of India (N.D.)  
Indian Express  
Tribune  
Hindustan (Hindi)

Nav Bharat Times (Hindi)  
Punjab Keshari (Hindi)  
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Deccan Herald

M.P.Chronicle  
A a j (Hindi)  
Indian Nation  
Nai Duniya (Hindi)  
The Times of India (A)  
Blitz

and documented at Bhagirath(English)& Publicity Section, CWC.

# Drought leaves hospitals high & dry

**LEFT IN LURCH** 300 surgeries cancelled in Beed last week after water ran out; more cases of waterborne diseases among people

## SPOTLIGHT

Priyanka Vora

■ letters@hindustantimes.com

**BEED/PARL(MAHARASHTRA):** At 2pm, as the tempo supplying drinking water to doctors at the district hospital in Beed prepares to leave, relatives of the patients admitted start chasing it. Belonging to poor families, they don't have the money to buy water cans, costing ₹30 each; the chase is just to catch hold of the little water left at the bottom of the container once the doctors have returned them.

Ideally, the hospital should have provided them water, except, it has none.

Last week, the hospital cancelled around 300 surgeries after it ran out of water. Now, it is only performing operations that can wait, the rest have been postponed until the taps start running again. "Like everyone, we are also dependent on tanker water," said hospital superintendent, Dr CS

Bolde. On Friday, the hospital dug a third borewell to meet its needs.

The situation is similar at the Government Medical College Hospital in Aurangabad. Compared to last year, it has witnessed a 20% rise in admissions. "The paying capacity of people in this region has gone down. They are unable to pay the fees of private doctors and so the entire patient load is directed to government facilities," said Dr CB Mhaske, dean of the hospital. The Beed district hospital too is running at 150% capacity.

Ironically, the reason behind the onslaught of patients is also water, which is either lacking in some places or contaminated in others.

In April, the hospital admitted over 200 patients with waterborne diseases such as diarrhoea, typhoid and gastroenteritis. "The borewell water is a bit yellow but we can't help it. Otherwise, we will die of thirst," said Sarita, whose two-year-old daughter developed diarrhoea.

Pediatrician Dr Vijay Rawat, who practices in Parli town, treats



■ The number of deaths as a result of heat stroke has increased five times compared to the figures for whole of 2015.

AP FILE

at least 20-25 cases of diarrhoea among children on a daily basis. "Some children are also coming with meningitis and convulsions as a result of the heat," he said.

"People request me to treat them in a day so they don't have to pay for longer hospitalisation. This is not Mumbai, where people have insurance and savings. Farmers live hand-to-mouth. When they have a medical emergency, they

borrow money," said Dr Satish Gutte, a physician.

Dr Gutte and colleagues have slashed their fees to accommodate poor patients. "The drought will also kill doctors. Most private hospitals do not have enough patients as the latter don't have money to pay fees. This will lead to closure of smaller hospitals," said Dr Santosh Munde, president of the doctors' association in Parli.

## diary

### MORE CASES OF HEAT STROKE

**BEED/SABALKHED:** The number of deaths as a result of heat stroke has increased five times as compared to the whole of 2015. Between January and May this year, the state health department recorded 409 cases of heat stroke across the state, most of them from Marathwada. The number of patients who developed heat stroke increased 20 times, according to the state health department.

HTC

### Only 1% water remains in Marathwada dams

**MUMBAI:** The administration and people in Marathwada are pinning their hopes on the monsoon as only 1% water is left in the dams of the region, said Aurangabad divisional commissioner Umakant Dangat. "We are using the groundwater stock. The IMD's forecast is good and we hope that we will be able to carry on till the monsoon arrives. We have acquired wells and bore wells for water supply," the senior IAS official said.

PTI

Hindustan Times	Nav Bharat Times (Hindi)	M.P.Chronicle
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Tribune	Deccan Chronicle	The Times of India (A)
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and documented at Bhagirath(English)& Publicity Section, CWC.

# A pleasant 24 degrees after 0.8 mm rainfall,

**EXPRESS NEWS SERVICE**  
NEW DELHI, MAY 23

AFTER WEEKS of scorching heat and temperatures higher than usually expected at this time of the year, a dust storm and light showers brought residents of the national capital much needed relief from the heat.

The storm and showers reduced the temperature to 24 degrees at 8 pm, according to data from the Indian Meteorological Department.

The Safdarjung observatory, whose readings are considered the official figure for the city, recorded 0.8 mm rainfall till 5.30 pm while the areas under Lodhi Road, Ayanagar and Ridge observatories recorded showers measuring 0.8 mm, 0.3 mm and 1.4 mm respectively.

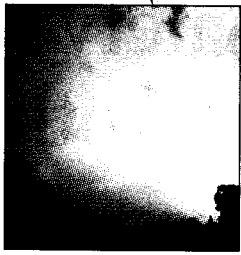
During the same time period, the weather station at Palam received spurts of rain.

The Met department has forecast rains for Tuesday as well. "The skies will be partly cloudy. Light rains and thunderstorms are likely in some areas towards the evening and night on Tuesday," stated the Met forecast.

B P Yadav from the IMD told The Indian Express that over the next four to five days, the department is going to study the effects of thunderstorms and showers on temperature in Delhi.

He added that the thunderstorms are a likely combination of the western disturbances and the higher temperatures seen earlier this month. "Overnight showers are also likely in some areas," he added.

The humidity level oscillated



## WEATHER FORECAST

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■ The Met department has forecast rains Tuesday as well.

between 68 per cent and 37 per cent.

On Tuesday, the maximum and minimum temperatures are expected to hover around 38 and 25 degrees Celsius, respectively. On Sunday, the maximum temperature was recorded at 42.7 degrees Celsius, while the minimum had settled at 28.8 degrees Celsius.

News item/letter/article/editorial published on May - 22.05.2016 in the

Hindustan Times  
Statesman  
The Times of India (N.D.)  
Indian Express  
Tribune  
Hindustan (Hindi)

Nav Bharat Times (Hindi)  
Punjab Keshari (Hindi)  
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# Rajasthan sizzles; rain kills 2 in UP <sup>DH</sup> Parts of Haryana and Punjab also reel under intense heatwave <sup>May-22</sup> <sub>p-9</sub>

**NEW DELHI:** Heatwave continued to sweep several parts of the country with Churu and Sriganganagar in Rajasthan scorching at 49.2 degrees Celsius even as some regions of Bihar and Odisha received rainfall.

Two persons were killed in Uttar Pradesh's Ballia district as strong winds and thunder showers hit several parts of the state. While one died in a tree fall incident, the other was struck by lightning, police said.

Churu and Sriganganagar sizzled at 49.2 degrees Celsius followed by Kota (47.3). Mercury in Rajasthan's Phalodi came down to 46 degrees Celsius from the 50 degrees mark.

Bikaner and Jaisalmer recorded the maximum temperature of 46.7 and 44.7 degrees Celsius, respectively.

Parts of Haryana and Punjab also reeled under intense heatwave conditions with Hisar scorching at 47.8 degrees Celsius.

Gujarat saw a little respite from heat on Saturday, with mercury levels that reached 48 degree celsius in Ahmedabad and state capital Gandhinagar on Thursday, coming down to



**IN SEARCH OF WATER:** A fisherman, Mashiair Shaikh (left below), is lowered into a well to fetch water in the centre of the parched Chandola Lake in Ahmedabad on Friday. The fishermen draw water from the well with a motor pump to keep their fish alive. AFP

44 and 43.5 degrees Celsius, respectively.

In Odisha, Bhawanipatna was hottest at 44 degrees Celsius followed by Titlagarh at 43.5 degrees Celsius, an Met

official said.

Cyclone Roanu made a landfall on Saturday at Bangladesh's southern coast, killing 15 people and injuring over 100 in that country.

In India, the effect of the cyclone was felt in parts of Bihar, Odisha and a few areas of Bengal.

Paradip received heavy rainfall due to the cyclonic influ-

**The Met department has said heatwave to severe heatwave conditions are very likely at a few places in Rajasthan, western Madhya Pradesh and Vidarbha region.**

ence, of about 163.9 mm while Puri and parts of Bhubaneswar got 80.8 mm and 32.4 mm of rain, respectively.

In Delhi, intense heatwave conditions continued, making life tough for people who also bore the brunt of long power outages in some areas. The maximum temperature was recorded at 41.6 degrees Celsius, two notches above the season's average.

Meanwhile, the IMD said heatwave to severe heatwave conditions are very likely at a few places in Rajasthan, western Madhya Pradesh and Vidarbha. Heat wave conditions are very likely at isolated places in Punjab, Haryana, Chandigarh, Delhi, eastern Uttar Pradesh, Gujarat region and east Madhya Pradesh.

**PTI & DHNS**



News item/letter/article/editorial published on May-22-05-2016 in the

Hindustan Times  
Statesman  
The Times of India (N.D.)  
Indian Express  
Tribune  
Hindustan (Hindi)

Nav Bharat Times (Hindi)  
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# New policy to conserve Western Ghats: Centre

DM-23  
P-7

**MUMBAI:** The Centre on Sunday announced that a new policy is in the offing to conserve Western Ghats, which is recognised as a UNESCO World Heritage Site.

"The Centre will formulate a policy that will conserve the rich biodiversity of the area, at the same time ensuring that the livelihoods of 5 crore people residing in the region spread across Gujarat, Maharashtra, Goa, Karnataka, Kerala and Tamil Nadu are not adversely affected," Union Environment Minister Prakash Javadekar said.

"It is a myth that ecological conservation and development cannot co-exist. It is not correct to see environment and development as being two ends of a

spectrum, where one must be compromised in order to enhance the other," he said at the International Biodiversity Day event in Mumbai on Sunday night, organised by the Ministry of Environment and Forest and the National Biodiversity Authority in association with the Maharashtra State Biodiversity Board and the UNDP India.

Javadekar said India was one of the recognised mega-diverse countries of the world, harbouring nearly 8% of the recorded species and representing four biodiversity hotspots.

He commended the peoples' action for environment conservation and said a 'jan andolan' (peoples' movement) was nec-

essary for biodiversity conservation. The minister lamented that many success stories of environment conservation were not highlighted by the mainstream media.

## People's movement

Maharashtra Governor C H Vidyasagar Rao too said that biodiversity conservation should be a people's movement.

Referring to the unprecedented drought in Marathwada, the Governor said conserving water, maintaining water bodies clean and managing water resources judiciously is critical to sustain the life and livelihood of people and to preserve biodiversity.

**DH News Service**



The Western Ghats are spread across Gujarat, Maharashtra, Goa, Karnataka, Kerala and Tamil Nadu. DH FILE PHOTO

Hindustan Times  
Statesman ✓  
The Times of India (N.D.)  
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BABA'S HERALD

# Govt plans Seechewal <sup>ST-24</sup> <sub>p-3</sub> model to solve water issue

## STATESMAN NEWS SERVICE

New Delhi, 23 May

Delhi's Water Minister Water minister Kapil Mishra approached Baba Balbir Singh Seechawal, renowned environmental activists, to find a solution to the increasing water shortage in the national capital.

Mr Mishra along with officials of Delhi Jal Board (DJB) and Aam Aadmi Party's Punjab State Convenor Sucha Singh Chotepur visited Seechewal Gaon in Kapurthala to meet the celebrated green activist, who combined his philosophy of self-help with the environmental essence of the Gurbani, and resurrected the 110-mile Kali Bein rivulet.

"I came here on instructions of my CM Arvind Kejriwalji who told me about his visit to Seechewal and the amazing work that Baba Balbir Singh Seechewal has done to clean rivers and



purify the environment," said Mr Mishra.

Mr Mishra, who is also chairman of Delhi Jal Board, lauded Mr Seechewal's role in water conservation and cleaning of rivers.

He said, "We have presented our plan to Babaji to clean our River Yamuna, which incorporates almost all the ideas that he has used, including decentralised wastewater treatment, oxidation ponds and maintenance of river flow. We will ensure that River Yamuna is cleaned on war footing and will ensure that the Punjab's Seechewal model of river cleaning is implemented in Delhi." He said that the work he

has done by leading a citizen's movement is amazing, and his humility and philosophy is even more inspiring.

The team from DJB visited various sites operated and maintained by Seechewal to treat wastewater and sewage, which used eco-friendly and natural processes, thus reducing the financial and environmental cost of cleaning the river.

The DJB studied the decentralised natural treatment system, oxidation pond, settling tanks and processes used to remove floating material from the Kali Bein rivulet. Another key insight was the maintenance of flow through the river which ensured quick self-purification of the river.

The DJB team found that many of the processes and techniques used in Seechewal found a prominent place in the government's plan to clean River Yamuna.

News item/letter/article/editorial published on 11/04-24.06.2016 in the

Hindustan Times  
Statesman ✓  
The Times of India (N.D.)  
Indian Express  
Tribune  
Hindustan (Hindi)

Nav Bharat Times (Hindi)  
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ENVIRONMENT MINISTRY TO CONTINUE PROACTIVE INITIATIVES: JAVADEKAR

# Area of achievement ST-24 P-C

## STATESMAN NEWS SERVICE

New Delhi, 23 May

Increased forest cover, better monitoring and control of industrial pollution, more project approvals and reduced waiting period for their approval and India's stand at the Paris summit on climate change are the five main areas of achievement highlighted today by environment minister Prakash Javadekar. "We have taken new initiatives for sustainable development and efforts will continue," Mr Javadekar said while briefing the media on his ministry's achievements in the past two years. The Modi government completes two years in office on 26 May.

Mr Javadekar began his conference by congratulating India's space scientists for the successful launch of India's first demonstrator space shuttle, Reusable Launch Vehicle

(RLV-TD). He also felicitated the successful parties and candidates in the just-concluded Assembly elections in Tamil Nadu, Puduchery, Kerala, West Bengal and Assam. He then went on to assert, "Our mandate is to maintain a balance between five elements of nature and protect them."

Looking into the future, the minister said over the next three years, the ministry will focus on strict compliance of environment laws and rules. A civil penalties law is also in the offing, he added. In response to a query on this issue, Mr Javadekar said use of technology to monitor pollution and capacity building of local (municipal) bodies will be among the focus areas.

Taking each area of achievement, the minister said forest cover had increased. However, it was



still 21 per cent of the land mass at present as against the targeted 33 per cent. This, he noted, could be achieved by incentivising the areas outside the existing forest region. A public-private-partnership for afforestation has seen the greening of the Himalaya as well as the banks of the Ganga. Corridor protection and water and fodder augmentation in protected areas were the offshoots of this move, he added. The minister said special efforts are being made to avoid animal-human conflict. The filing of six patents by

Institutes of Forest Research, 655 new flora discoveries and 115 new fauna discoveries were some of the other major initiatives on forest, Mr Javadekar added. In this context, the minister said the Compensatory Afforestation Bill to provide Rs 42,000 crore to states for afforestation was passed by the Lok Sabha and he was confident the Rajya Sabha would clear it.

On pollution initiatives, Mr Javadekar said a 24x7 real-time emission monitoring, coupled with the move towards Euro-VI automobile standards by 2020 will ensure "a permanent solution" for the pollution problem.

Asked when India will ratify the Paris Agreement, Mr Javadekar refused to give a final date but said, "Our ratification is on track. But it is a due process."



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# Only 1% water remains in Marathwada dams

MUMBAI, MAY 23

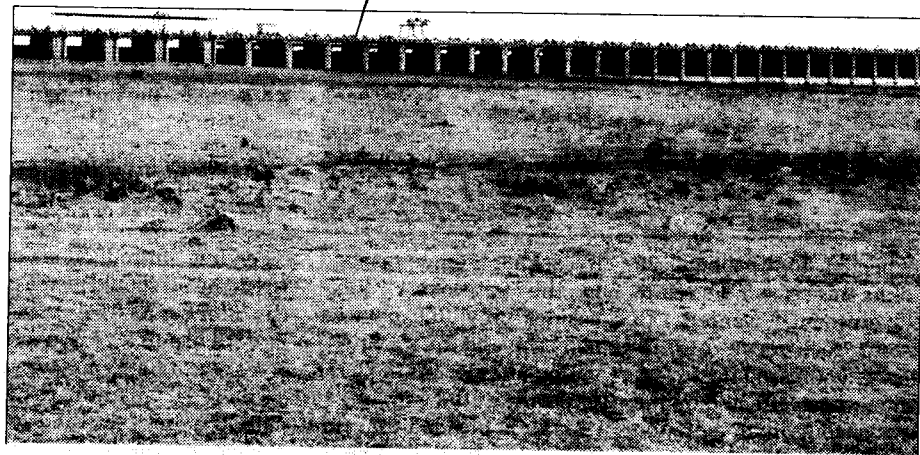
The administration and people in drought-hit Marathwada are pinning hopes on the monsoon as only 1 per cent water is left in the dams of the parched region.

"There is only 1 per cent water left in the dams in Marathwada region," said Aurangabad Divisional Commissioner. Umakant Dangat. "We are also using the groundwater stock. The IMD's forecast is good and we hope that we will be able to carry on till the monsoon arrives. We have acquired wells and borewells for water supply," the senior IAS official said.

He expressed confidence that the administration would be able to supply water from the Jaikwadi dam to Aurangabad till July-end, by which time the monsoon would arrive.

Around 3,600 water tankers are being used to supply water to drought-affected villages and hamlets in the region.

This is the fourth year of



A dried bed of a dam due to decreased water level at Ujani in Solapur, Maharashtra. PTI

## To save water for drinking, power generation shut at Narmada dam

■ To save water for drinking and irrigation, the Narmada dam authority has kept six 250-MW hydropower turbines shut for over six months now, causing a sharp drop in power generation as against an all-time high record achieved in 2013-14, an official said

■ The six river bed power house (RBPH) turbines, which are situated on the bed of Narmada downstream the Sardar Sarovar Dam at Kevadia, have been out of operation since October last year due to poor rainfall recorded last year

■ "The decision to keep the RBPH shut is based on water audit by the Narmada Control Authority, which takes into consideration water availability across reservoirs in Madhya Pradesh and Gujarat," a Sardar Sarvar Narmada Nigam Ltd official said

drought in Marathwada in the last five years. Each of its 8,522 villages has been affected for two consecutive

years. Latur in the region has been getting water by a special water train.

Around 400 cattle fodder

camps are now operational in Beed, Latur, Osmanabad and Ahmednagar districts, officials said. — PTI

News item/letter/article/editorial published on 24-24-15-0016 in the

Hindustan Times  
Statesman  
The Times of India (N.D.)  
Indian Express  
Tribune  
Hindustan (Hindi)

Nav Bharat Times (Hindi)  
Punjab Keshari (Hindi)  
The Hindu  
Rajasthan Patrika (Hindi)  
Deccan Chronicle  
Deccan Herald

M.P.Chronicle  
A a j (Hindi)  
Indian Nation  
Nai Duniya (Hindi)  
The Times of India (A)  
Blitz

*and documented at Bhagirath(English)& Publicity Section CWC.*

# After dust storm, rains lash city

**Relief from heat:** The meteorological office has forecast rains today as well <sup>7-24</sup><sub>p-2</sub>

## TRIBUNE NEWS SERVICE

NEW DELHI, MAY 23

Delhiites have got a relief from the scorching heat following dust storm accompanied by light rains that swept the national Capital this evening. Consequently, the maximum temperature has dropped to 40.9 degree Celsius.

Just after the rains people were seen enjoying the cool weather at India Gate. Shamim Khan of the walled city said just after the dust storm settled, he left for India Gate from the congested Balimaran. Another merry-maker, Anita, a 20-year-old girl of Trans-Yamuna said that in the oppressive heat, showers were a gift from God.

The Safdarjung observatory recorded 0.8 mm rain-



Vehicles plying at a slow pace at ITO in New Delhi on Monday. TRIBUNE PHOTO: MANAS RANJAN BHUI

fall till 5.30 pm while the areas under Lodhi Road, Ayanagar and Ridge observatories recorded showers

measuring 0.8mm, 0.3mm and 1.4 mm, respectively.

The Met office has forecast rains for tomorrow as well.

"The skies will be partly cloudy. Light rains and thunder storm is likely occur in some areas towards evening

and night tomorrow," the Met forecast said.

According to the Met official, the Safdarjung observatory recorded a maximum temperature of 40.9 degree Celsius, a notch above the season's average, while the minimum temperature settled at 30.5 degrees, four notches above the normal.

"Overnight showers are also likely in some areas," he added. The humidity level oscillated between 68 per cent and 37 per cent.

Tomorrow the maximum and minimum temperatures are expected to hover at 38 and 25 degree Celsius, respectively.

Yesterday, the maximum temperature was recorded at 42.7 degree Celsius, while the minimum had settled at 28.8 degree Celsius.

News item/letter/article/editorial published on May 24.03.2016 in the

Hindustan Times

Statesman

The Times of India (N.D.) ✓

Indian Express

Tribune

Hindustan (Hindi)

Nav Bharat Times (Hindi)

Punjab Keshari (Hindi)

The Hindu

Rajasthan Patrika (Hindi)

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## CRACKDOWN ON POLLUTERS 94 TV

► Fine collected by DPCC for violation of dust control measures at construction sites is over **₹1.18 crore**



► The Delhi Pollution Control Committee has issued 139 notices to 67 construction projects, including 14 DMRC sites

► Delhi govt has directed all departments and agencies to prepare lists of defaulters who have not deposited the penalty amount;

**lists will be submitted to NGT**

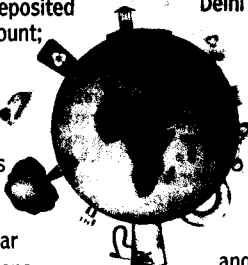
► Only North Corporation has filed details of 156 defaulters before NGT so far

► All corporations

will have to produce **P-5** photographs of inspections being carried out to check dust pollution and leaf bearing

► Corporations will submit action plan for roadside dust control. Photos of building material lying on the roadside and construction and demolition waste to be uploaded on Swachh Delhi App

► Traffic police have cracked down on vehicles carrying building material without proper cover between January and May this year



Hindustan Times  
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and documented at Bhagirath(English)& Publicity Section, CWC.

# Mercury plunges 13 degrees in 2hrs

## Rain Brings Relief From 12-Day Spell Of Scorching Heat

TIMES NEWS NETWORK

Yogesh Kumar



**WELCOME RESPITE:** The dust storm appeared out of nowhere around 3 pm. The Met office said mild weather was expected over the next two-three days, with a possibility of more rain on Tuesday

## At IGI, over a dozen flights diverted

TIMES NEWS NETWORK

**New Delhi:** Over a dozen flights arriving at Indira Gandhi International (IGI) airport had to be diverted due to bad weather conditions in the capital city on Monday evening while most of the departures were delayed. Officials said that the Met department had issued a warning earlier in the day, which was later extended to 11pm. Several passengers were left stranded due to sudden weather change. Airport officials said that adequate arrangements were made to deal with the overcrowding.

"After the Met department at the IGI issued a weather warning, the same was conveyed to the air traffic controllers — who further updated the approaching flights about their diversions. 14 arrivals were diverted, including both domestic and international, most of them to Lucknow, Jaipur and other nearby airports. Most of the departures from the airport had to be delayed," said an official.

Airport officials said airlines have been asked to regularly update real flight timings to ensure no inconvenience is caused. "Our airport app — flyDel — can also be used to keep a close watch on the changes made in flight timings," the official said.

Union urban development minister Venkaiah Naidu's flight was also diverted to Ahmedabad.

wer side for another three-four. There were several areas that were witnessing heat waves, like Haryana and Rajasthan where the storm brought immense relief," said B P Yadav, director, IMD.

Yadav said north India had seen record high temperatures in the past 10 days or so. Around May 19, a cyclone formed over the Bay of Bengal which changed the wind pattern over northern India. From the dry westerlies that had resulted in the scorching temperatures, moist easterly winds picked up over the region.

"The past three-four days saw high levels of humidity but because there was no system to circulate the wind, there was no formation of deep clouds. On Sunday, however, the situation changed. A

## WEATHER

Max 40.9°C / Min 30.5°C

Moonrise: Tuesday - 09:16 pm

Moonset: Wednesday - 08:13 am

Sunset: Tuesday - 07:10 pm

Partly cloudy sky, Maximum & min

temperature on Tuesday will be around 38°C & 25°C. Max Humidity on Monday day was 73% and min 31%

western disturbance that was over Afghanistan till Sunday had moved over Pakistan and Jammu and Kashmir by Monday. An associated cyclonic circulation developed over Punjab and Haryana that helped lift the moist air to form clouds," said Yadav.

The system had an impact over all of north India, from the hills all the way to Bihar, covering Uttar Pradesh, Haryana, Uttarakhand and Del-

hi.

Fire officials said three trees were uprooted in the capital due while three members of a family including a child were injured when a wall collapsed in east Delhi's Jagatpuri area. Police said the wall came down around 3.10pm, when the family was resting inside the house. They have been admitted to a hospital where they have been declared out of danger.

A tree was uprooted inside BJP chief Amit Shah's residence. Two other trees came down near Gyarah Murti and APJ Abdul Kalam Road. No injuries were reported.

Meanwhile, traffic jams were reported in parts of south Delhi due to water logging at Moolchand Metro station and the BRT demolition sites.

**New Delhi:** Monday was another blistering day in Delhi, till a sudden afternoon storm changed it all. Breaking a 12-day spell of scorching heat, rain poured relief on the capital, sending the mercury plunging from a high of 40.9 degrees Celsius to 27.4 degrees in a couple of hours.

The dust storm appeared out of nowhere around 3 pm. Within minutes, the skies darkened and winds gusting up to 60 kmph sent people scurrying for cover. As the storm settled, a thundershower took its place. It rained intermittently through the evening, with the Met office recording 6.2mm till 8.30pm.

For Delhiites, reeling under 40-plus temperatures for 12 straight days since May 11, the showers couldn't have come at a better time. The Met office said mild weather is expected over the next two-three days, with a possibility of more rain on Tuesday.

At the IGI Airport, the dust storm was reported between 3.30 pm and 3.45 pm which brought down visibility from 4,000m to 700m. Winds of 55-60 kmph severely hampered airline operations and several flights had to be diverted. From a maximum of 42.3 degrees Celsius just before the storm, the temperature right after the storm had gone down to 37 degrees Celsius.

"There are multiple factors that resulted in the storm but the moot point is that storms and rain were spread across north India. It will keep the temperature on the lo-

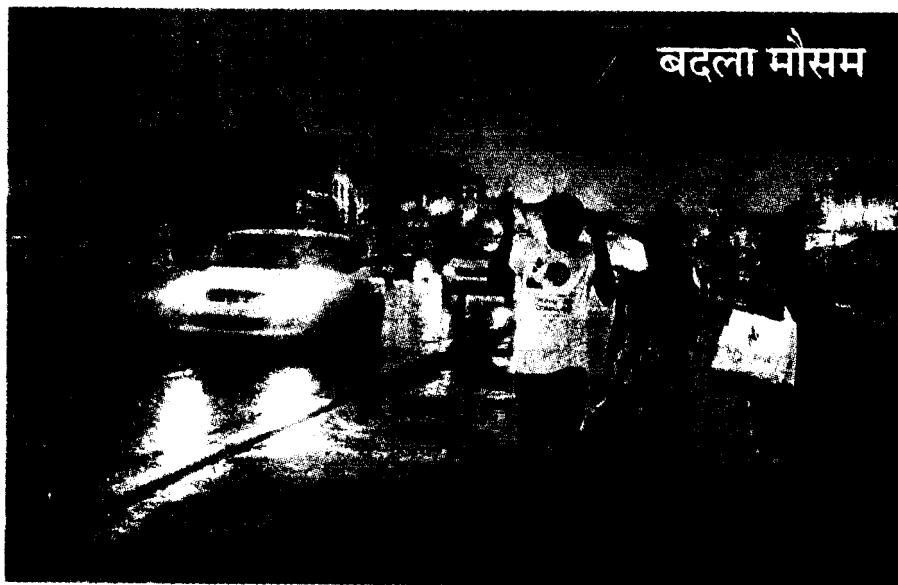
News item/letter/article/editorial published on May-24-5-2016 in the

Hindustan Times  
Statesman  
The Times of India (N.D.)  
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Blitz

and documented at Bhagirath(English)& Publicity Section, CWC.



राजधानी दिल्ली में सोमवार शाम को बारिश हुई। बारिश के कारण लोगों को झुलसाने वाली गर्मी से राहत मिली। बारिश के दौरान गुजरते वाहन व लोग।

पत्रिका-24-5-16

पत्रिका

दिल्ली-  
एनसीआर में  
बारिश

नई दिल्ली. भीषण गर्मी से राहत देते हुए दिल्ली-एनसीआर में सोमवार को अचानक मौसम बदला। इतने घने काले बादल आसमान में छा गए कि दोपहर 3 बजे भी रात जैसा नजारा हो गया। गाड़ियों की हेडलाइट तक आँन करनी पड़ गई। जबकि धूल भरी आँधों के कारण पैदल यात्रियों को काफी दिक्कत का सामना करना पड़ा। इसके बाद हुई बारिश से तापमान में 8 से 10 डिग्री की गिरावट दर्ज की गई। इसके अलावा यूपी, बिहार, हिमाचल और उत्तराखंड में भी कई क्षेत्रों में बारिश हुई।

News item/letter/article/editorial published on May-24.7.2016 in the

Hindustan Times

Statesman

The Times of India (N.D.)

Indian Express

Tribune

Hindustan (Hindi)

Nav Bharat Times (Hindi)

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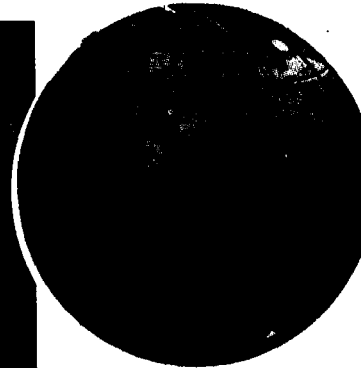
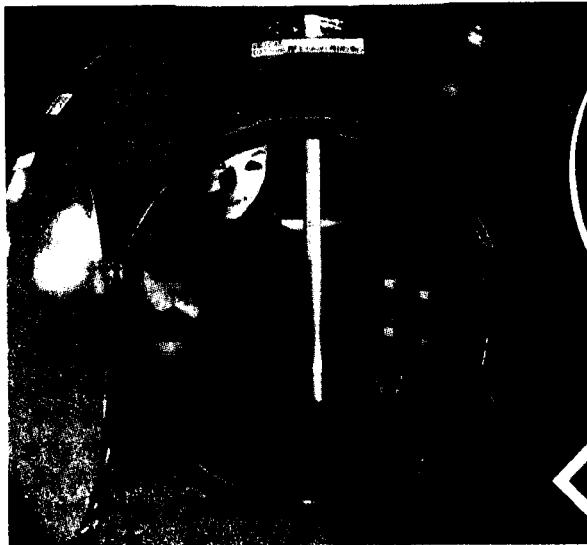
and documented at Bhagirath(English)& Publicity Section, CWC.

पेज-14- राजस्थान पत्रिका देश-दुनिया पत्रिका patrika.com  
24-5-16

खोज } बचाव उपकरणों से लैस है बेहद मजबूत केप्सूल, पांच दिन तक रह सकता है पूरा परिवार

# भूकंप, सुनामी सबसे बचाएगा जीवनरक्षक गोला

लंदन . भूकंप, सुनामी और बवंडर जैसी प्राकृतिक आपदाएं सबसे ज्यादा मानवीय जीवन लील लेती हैं। वैज्ञानिकों ने अब इन संकटों से बचने के लिए एक तरह का ब्रह्मास्त्र तैयार कर लिया है। एक विशाल जीवनरक्षक गोला हर मुश्किल त्रासदी में लोगों को बचाने में सफल होगा। आपदा के समय दो लोगों से लेकर पूरे परिवार और ऑफिस के लोगों के अनुसार इसे अलग-अलग आकार में तैयार किया गया है। सुनामी में यह पानी में तैर सकेगी और बवंडर में इसका बाल भी बांका नहीं होगा।



## ऐसे करता है काम

इस विशाल गोले में हवा के लिए सप्लाई टैंक, दो मजबूत खिड़कियां, वाटरटाइट गेट (अंदर बाहर दोनों ओर से खुलने वाला), पानी की व्यवस्था। रोशनी की पर्याप्त व्यवस्था और ग्लोबल पोजिशनिंग सिस्टम है। इस सुरक्षा उपकरण में प्रत्येक व्यक्ति के लिए पांच दिन तक सुरक्षित रहने के व्यवस्था होगी। इमरजेंसी में इतना समय बहुत मायने रखता है।

## आपदा राहत में मिलेगी बड़ी मदद

इस केप्सूल के फाउंडर जूलियन शेरपे कहते हैं कि यह भविष्य में बेहद अहम साबित होने वाला है। इसे कम जगह में रखा जा सकता है और

आपदा के समय लोग निश्चिंत हो सकते हैं कि उन्हें अब घबराने की जरूरत नहीं है। यह आपदा राहत की दिशा में बहुत बड़ा कदम है।



News item/letter/article/editorial published on May. 24.05.2016 in the

Hindustan Times  
Statesman  
The Times of India (N.D.)  
Indian Express  
Tribune  
Hindustan (Hindi)

Nav Bharat Times (Hindi)  
Punjab Keshari (Hindi)  
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Blitz

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मराठवाड़ा के बांधों में बचा है  
मात्र एक प्रतिशत पानी

मुम्बई, (भाषा): सूखा प्रभावित  
मराठवाड़ा में प्रशासन और लोगों की  
उम्मीदें अब मानसून पर टिकी हुई हैं  
क्योंकि इस क्षेत्र के बांधों में अब मात्र  
एक प्रतिशत पानी ही बचा है।

News item/letter/article/editorial published on May 24, 2016 in the

Hindustan Times  
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# आंधी-तूफान से उत्तराखंड में बड़ा हादसा, गंगोत्री-यमुनोत्री यात्रा भी रुकी तूफान से गिरी चट्टान, 10 मौतें

■ प्रमुख संवाददाता, देहरादून

उत्तराखंड के चकराता इलाके में पहाड़ी से एक बड़ी चट्टान के गिरने से उसके नीचे दबकर 10 मजदूरों की मौत हो गई जबकि छह अन्य घायल हो गए। घायलों में से एक की हालत नाजुक बताई जाती है और उसे दून मेडिकल कॉलेज में भर्ती किया गया है। मृतकों में एक परिवार के पांच और दूसरे परिवार के तीन सदस्य शामिल हैं। दो अन्य मृतक भी पति-पत्नी हैं।

देहरादून के जिलाधिकारी रविनाथ रमन के अनुसार रविवार देर रात जौनसार भाबर की त्यूनी तहसील में हनोल के नजदीकी चातरा गांव में तेज आंधी तूफान के साथ बारिश हुई। इससे कुछ पेड़ उखड़कर एक चट्टान पर गिर गए जिससे यह खिसक गई। जो चट्टान खिसकी उसके नीचे इस आंधी तूफान से बचने के लिए नेपाली मूल के 16 मजदूरों ने ओट ले रखी थी। हादसे में दस मजदूरों की मौत पर ही मौत हो गई। चट्टान की चपेट में आए मजदूरों को स्थानीय लोगों और राजस्व विभाग के कर्मियों ने सोमवार सुबह जेसीबी के मदद से चट्टान से बहार निकाला। मृतकों में एक महिला, दो बच्चे और सात पुरुष शामिल बताए गए हैं। मारे गए मजदूर हनोल से चातरा गांव को बन रही पीएमजीएसवाई योजना के तहत सड़क के निर्माण के लिए यहां आए थे।

इस तूफान से आधा दर्जन घरों की छत उड़ने का भी समाचार है। जिलाधिकारी ने मृतकों के परिवार जनों को 4-4 लाख रुपये की धनराशि देने की घोषणा की है। यह इलाका देहरादून जिला हेडक्वार्टर से 150 किलोमीटर की दूरी पर पड़ता है।



रविवार रात आए बारिश-तूफान से कई पेड़ एक बड़ी चट्टान पर गिर पड़े थे।

## गंगोत्री, यमुनोत्री यात्रा रुकी

तूफान के कारण गंगोत्री राजमार्ग पर गिर आए पेड़ों की वजह से गंगोत्री यात्रा नालोपानी में बाधित हो गई है जिस कारण गंगोत्री यात्रा रोक दी गई है। इसी कारण यमुनोत्री यात्रा भी रोक दी गई है। वहीं झारखंड से आए एक बीस सदस्यीय यात्रा समूह की 58 वर्षीय शीला सहाय की यमुनोत्री जाते हुए जानकी चट्टी में हृदय गति रुकने से मौत हो गई। तेज हवा और ओले गिरने से उत्तरकाशी में एक शख्स की मौत हो गई। कई जगह बिजली की लाइनें कट गई हैं। टिहरी शहर अंधेरे में है। (प्रस)

## लैंडस्लाइड से 3 मरे

■ पीटीआई, आइजोल : मिजोरम की राजधानी आइजोल के जौनुआम में एक घर बारिश से हुए भूस्खलन की चपेट में आ गया जिससे तीन लोग मारे गए। बारिश के ताजा दौर के साथ मिजोरम में कई जगहों पर लैंडस्लाइड की घटनाएं हो रही हैं। इस कारण आइजोल और यहां के इकलौते लैंगपुई एयरपोर्ट को जोड़ने वाली सड़क पर यातायात ठप हो गया है।

## गर्मी से राहत

■ भाषा, नई दिल्ली : मौसम विभाग ने देश के कई हिस्सों में अगले 48 घंटों में गरज के साथ छीटे पड़ने का अनुमान लगाया है। विभाग के मुताबिक, लंबे समय तक लू की चपेट में रहने के बाद उत्तर-पश्चिम और मध्य भारत में अगले 48 घंटों में अधिकतम तापमान के गिरने की संभावना है। हालांकि पश्चिमी मध्य प्रदेश और विदर्भ में 'लू' का प्रकोप जारी रह सकता है। मौसम विभाग ने कहा कि इसके बाद गर्मी कम होने की संभावना है और 27 से 31 मई के बीच उसके धीरे-धीरे कम होने की संभावना है। अंडमान-निकोबार में 'भारी बारिश' होने का अनुमान है, जहां 18 मई को दक्षिण-पश्चिम मॉनसून पहुंच गया था। वहीं हिमाचल प्रदेश में सोमवार को हुई बारिश से उत्तरी मैदानों से गर्मी से राहत पाने आए हजारों पर्यटकों के चेहरे खिल उठे।

जब ऊंट को आया गुस्सा : दिनभर धूप में बंधे होने की वजह से गर्मी में एक ऊंट का दिमाग ऐसा सनका कि उसने अपने मालिक पर ही हमला बोल दिया। ऊंट ने अपने मालिक के सिर के टुकड़े कर दिए। घटना बाड़मेर जिले की है।

Hindustan Times ( Delhi )

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Hindu - 23 May 2016

# More extreme rainfall on land masses predicted

K.S. RAJGOPAL

In the current global warming scenario, extreme rainfall events can be expected to increase in both dry and wet land regions of the world, according to a recent study published in the journal *Nature Climate Change*.

The water vapour concentration increase in the atmosphere per degree Celsius rise in temperature is 7 per cent according to the Clausius-Clapeyron theory. Over the ocean, where evaporation is greater than precipitation (rainfall), such as in dry areas, the atmosphere will get drier with increased global warming as the evaporated water, in the form of vapour, is carried away by winds, leaving behind a dry atmosphere. And where the precipitation is greater than evaporation such as in wet areas the areas will get wetter.

But over the land masses it has been less clear as to how the rainfall patterns change with global warming. Based on models and observations it has been found that global average precipitation increases only about 2 per cent. In some way the atmosphere produces less rain.



Though significant, the study does not cover tropical land masses adequately. Photo: M. Vedhan

One way that this could happen is if rain increases at the Clausius-Clapeyron rate when it does fall, but falls less often, making precipitation events more extreme. This is what is seen typically in general circulation models (GCM), the most detailed models of the climate system.

Another point is that the heat released by the condensation of water itself tends to pull more moisture into a precipitating system. This suggests that intense rain might instead in-

crease with warming at even higher rates than the Clausius-Clapeyron rate—perhaps twice as fast, as some observations for short timescales (minutes to hours) seem to show. On the other hand, as the atmosphere's capacity to evaporate moisture from arid regions and to transport it away will increase at the Clausius-Clapeyron rate, arid regions are expected to become drier still, and it seems plausible that this would reduce all precipitation (from light to heavy) in these regions.

In the study, Dr Markus Donat of the Climate Change Research Centre, University of New South Wales, Australia and colleagues analyse the changes in observations of annual total and extreme (the most to fall on any single day in the year) precipitation over land for 1951-2010. They find that the fraction of the year's rain that falls on the wettest day increases consistently with the Clausius-Clapeyron rate across both these regions.

GCM simulations of the same period are consistent with these observations, and those of the late 21st Century show that the trend continues. Therefore, we can have some confidence that extreme precipitation risk will increase not only in wet regions but also in dry ones.

The study, though significant for its findings has the drawback that the tropics were poorly covered. The global warming effects are most severely felt in the tropics where complex physical interactions make prediction hardest. Also, extreme rainfall data is widely available only on the daily timescale. It cannot be known how it will change on shorter and longer timescales, which will indicate the flood risk in different places.

दिनांक २५ मई २०१६ को निम्नलिखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

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## *The Tribune - 25 May 2016* Thundershowers lash Sonapat



- Dust storm and thundershowers lashed Sonapat district on Monday afternoon, bringing relief from scorching heat
- Strong winds with speed reaching up to 60 km per hour uprooted trees at several places
- Power supply was disrupted in most of the areas, Sonapat and Gohana towns
- Sources in Power Department said supply could not be restored in several villages till late in the evening



(Top) One hour of rain brought temprature down in Gurgaon on Monday and (above) children in Hisar in a playful mood.

TRIBUNE PHOTO: SAYEED AHMED

दिनांक २५.०५.२०१६ को निम्नलिखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

✓ Hindustan Times ( Delhi )  
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HT- 25 May 2016



■ Delhiites enjoy evening rain at Qutub Minar on Monday. The downpour brought much-needed respite to the scorched city. SANCHIT KHANNA / HT

## Storm rains relief on city, but heat will return soon

**HT Correspondent**

■ letters@hindustantimes.com

**NEW DELHI:** The heavens opened in Delhi on Monday evening, bringing cheer to residents who had been braving high mercury levels for more than two weeks.

While the temperature stood at 40.6°C at 2.30pm, the rain brought it down to 27.2°C two hours later — a difference of 13.4°C.

The cheer, however, is expected to be short-lived. Experts said the heatwave would resume on Wednesday, taking the temperature beyond the 40-degree mark.

The sudden showers caused traffic jams in Khan Market, ITO, Ashram intersection, Mathura Road, Sri Aurobindo Marg and Connaught Place.

**CONTINUED ON PAGE 7**

» HOARDING CRUSHES MAN, P2

## HT- 25 May 2016 Rain relief

The rain was preceded by a dust storm with a wind speed of 50-60kmph, which affected flight operations at the IGI Airport. "Visibility fell from 4,000 metres to 600 metres between 3.10pm and 3.45pm. Flight operations were affected in that period," said RK Jenamani, director of the IGI Met unit. The dust storm also caused trees to collapse on electricity lines in many places across the city, resulting in power outages.

The Met recorded 6.2mm of rainfall, caused due to local convection and easterly winds. Prior to that, the maximum temperature had settled at 40.9°C. The city is likely to experience light rain on Tuesday too, with the temperature between 25 and 38°C.

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To 1 - 23 May 2016

# Light showers in suburbs, island city stays cloudy

**ONSET OF RAINS**

YEAR	DATE
2015	June 12
2014	June 15
2013	June 7
2012	June 17
2011	June 5
2010	June 14
2009	June 24



TIMES NEWS NETWORK

**Mumbai:** Several parts of the eastern and western suburbs received light drizzle late on Sunday, while other areas remained under a thick cloud cover. The drizzle, termed as pre-monsoon shower, by the weather department, brought much relief from the sweltering heat.

The maximum temperature in Colaba on Sunday was around 35.5 degrees Celsius while Santacruz was marginally better at 34.9 degrees Celsius. The minimum temperatures at both these places remained around 29 degrees Celsius. Areas like Malad, Kandivli, Mulund and even Navi Mumbai received mild showers. Mumbaiikars took to the social media to announce the first rains but the weather de-

partment said there's still time for that.

"The drizzle in the city was on account of excessive moisture and can be called pre-monsoon showers. There is cloudy condition but we do not expect rains as such. There is lot of westerly winds that has brought about the clouding in the city," said V K Rajeev from Regional Meteorological Centre in Mumbai.

The scheduled date of onset of monsoon over Kerala is June 1 and June 10 for Mumbai.

The weather department has predicted that the sky may remain cloudy over the next 24-48 hours without much possibility of rain.

The maximum and minimum temperatures too are likely to hover around 35 and 29 degrees Celsius respectively.



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11- 23 May 2011

## Thousands homeless in cyclone-hit B'desh

**DHAKA: Thousands of Bangladeshis were left homeless on Sunday after Cyclone Roanu battered the impoverished southern coastal region, ripping apart flimsy houses and killing at least 24 people.**

The storm on Saturday ploughed through low-lying villages in the Chittagong and Barisal regions, where residents described seeing metres-high walls of water that caught some unaware.

Authorities evacuated more than 500,000 people to shelters before the cyclone hit with winds of up to 88 kilometres per hour. They later weakened.

But officials said thousands of others along the coast were left stranded in their homes as sea water ripped through dykes and flooded dozens of villages.

"Before we could realise, the whole village was washed away by a huge wall of water," said Abu Siddique, a councillor from Banshkhali district in

Chittagong. "It came at least six hours early, giving the villagers no time to rush to cyclone shelters. Those who died were caught by a sudden rush of water."

"They (authorities) said the storm surge would be four-feet high but in some places the water that hit our shore was as high as three metres."

Bangladesh's disaster management chief said thousands of homes were damaged or destroyed and 24 people had been killed in total, up from 23 recorded on Saturday.

About half of those who died were from the Chittagong region which bore the brunt of the storm, Disaster Management Department head Reaz Ahmed told AFP.

"Food supplies worth \$12.5 million was damaged after sea-water entered our warehouses," Chittagong Chamber of Commerce and Industry president Mahbulul Alam said.

**AFP**



**LAI'D TO WASTE** Bangladeshi rescue workers search for survivors after Cyclone Roanu hit Chittagong on Saturday. AFP

Hindustan Times ( Delhi )

भारत टाइम्स ( दिल्ली )

The Tribune ( Chandigarh )

The Hindu ( Chennai )

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Hindu - 23 May 2016

# Why sea ice cover around Antarctica is rising

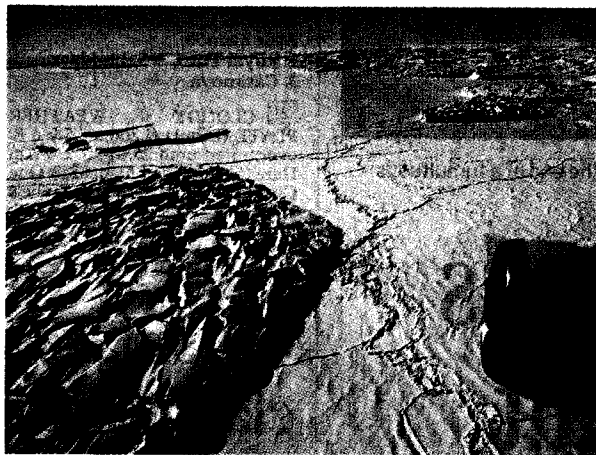
## NASA-led study finds geology of Antarctica and Southern Ocean responsible

**WASHINGTON:** Why has the sea ice cover surrounding Antarctica been increasing slightly, in sharp contrast to the drastic loss of sea ice occurring in the Arctic Ocean? A new NASA-led study has found the geology of Antarctica and the Southern Ocean is responsible.

The researchers used satellite radar, sea surface temperature, land form and bathymetry (ocean depth) data to study the physical processes and properties affecting Antarctic sea ice.

They found that two persistent geological factors — the topography of Antarctica and the depth of the ocean surrounding it — are influencing winds and ocean currents, respectively, to drive the formation and evolution of Antarctica's sea ice cover and help sustain it.

"Our study provides strong evidence that the behaviour of Antarctic sea ice is entirely consistent with the geophysical characteristics found in the southern polar region, which differ sharply from



**TIP OF THE ICEBERG:** The researchers used satellite radar and sea surface temperature for the study. — PHOTO: THE NEW YORK TIMES

those present in the Arctic," said lead researcher Son Nghiem of NASA's Jet Propulsion Laboratory, Pasadena, California.

The researchers analysed radar data from NASA's QuikScat satellite from 1999 to 2009 to trace the paths of Antarctic sea ice movements and map its different types.

They focused on the 2008 growth season, a year of ex-

ceptional seasonal variability in Antarctic sea ice coverage.

### Analyses

Their analyses revealed that as sea ice forms and builds up early in the sea ice growth season, it gets pushed offshore and northward by winds, forming a protective shield of older, thicker ice that circulates around the continent.

The persistent winds, which flow down slope off the continent and are shaped by Antarctica's topography, pile ice up against the massive ice shield, enhancing its thickness.

This band of ice, which varies in width from roughly 100 to 1,000 km, encapsulates and protects younger, thinner ice in the ice pack behind it from being reduced by winds and waves. The team also used QuikScat radar data to classify the different types of Antarctic sea ice.

Older, thicker sea ice returns a stronger radar signal than younger, thinner ice does. They found the sea ice within the protective shield was older and rougher (due to longer exposure to wind and waves), and thicker (due to more snow accumulation).

As the sea ice cover expands and ice drifts away from the continent, areas of open water form behind it on the sea surface, creating "ice factories" conducive to rapid sea ice growth, the researchers said. — IANS

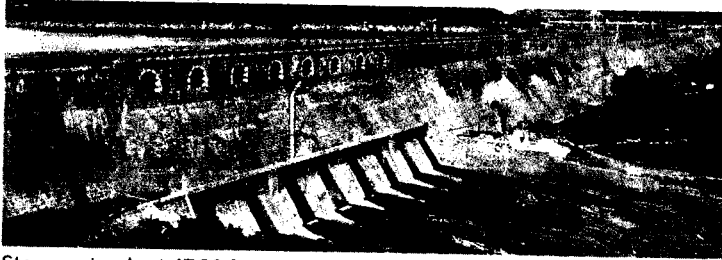
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## Water release from Mettur unlikely on June 12

Hindu - 23 May 2016



Storage stands at 47.20 ft against the full capacity of 120 ft. — FILE PHOTO

SYED MUTHAHAH SAQAF

**SALEM:** Poor storage in the Mettur Stanley Reservoir has raised doubts whether water would be released for farming in the delta region on the customary date of June 12 this year.

The level in the dam stood at 47.20 feet on Sunday against its full level of 120 feet. The storage was 16.094 tmc ft against its full capacity of 93.470 tmc ft. The inflow in the dam was 106 cusecs and about 500 cusecs of water is being released into the Cauvery for drinking purposes.

### Poor rainfall

Owing to poor rainfall in the catchment areas, the dam has not received much water for the past couple of months. Technically, the dam can be opened for prolonged supply only when the level is at least 79 feet and the storage is 40 tmc ft. The dam is also dependent on the combined storage position in Karnataka reservoirs. The Meteorological Department is expecting Southwest monsoon to set in during June first week. Farmers are hopeful of good rainfall

and increased flow into the dam. But if the Southwest monsoon sets in by June first week, it will take time for water to reach Mettur.

Farmers of Thanjavur, Tiruvarur, Nagapattinam, Tiruchi, Karur, Pudukottai, Cuddalore, Ariyalur, Perambalur etc will be in need of about 330 tmc ft of water for raising Kuruva, Samba, Thaladi in about 16 lakh acres. Usually water release continues till January 28 next year.

The Public Works Department sources are of the view that since only 20 days are left, the possibility of water release for the kuruva season on June 12 is remote.

Water was not released on the customary date for 56 times in the 83-year history of the dam. Only on 15 occasions, water was released on the scheduled date. At least on eleven occasions, water was released in advance, thanks to the satisfactory storage, the official sources said.

During the last farm season, water was released only on August 9. But midway during the Samba and Thaladi, the level depleted fast causing anxiety to farmers.

## Water staircases in seas



• [Shubashree Desikan](#)



The Hindu

Unlike the surface waves we usually observe, internal waves in the ocean can stretch over scales of 10-100 kilometres. The photograph is used for illustrative purposes only. Photo: M. Karunakaran

*When a vertical internal wave strikes this formation, a part of its energy may be transmitted through it.*

Internal waves, which move vertically through the ocean, can sometimes pass through “water staircases,” which are steplike variations of density of water, in such a manner as to churn up the underlying warm, salty water, thereby increasing the temperature of the top, cooler layers, according to a paper published in *Physical Review Fluids*. This suggests a possible mechanism by which the upper layers of the Arctic Ocean warm up, causing the ice to melt.

Water staircases are steplike variations of density of water due to steplike changes in temperature and salinity. Though internal waves exist where the density gradually increases with depth, they cannot propagate where the density is uniform, for instance, within the steps of the staircase. While the passage of waves through a single step was studied earlier, the interaction between waves and multiple steps was not really understood well and is considered for the first time in this paper.

### Ocean warming

The Arctic Ocean has inflows coming from the Pacific Ocean and Atlantic Ocean. In this, the top layers consist of cooler and less saline water and below that is a layer of water coming from the Atlantic Ocean which is more saline and warmer, too. The effect of salinity wins over that of temperature and so, though the water below is warmer, it is heavier than the cooler, less saline layer on top.

“Warm, but salty water — ultimately originating from the Atlantic Ocean resides near the bottom of the Arctic Ocean. If turbulence could somehow mix this water with that above, then, eventually, the surface could warm more rapidly, and this would increase the rate of sea-ice melt. One mechanism for mixing is the result of breaking internal waves,” says Bruce Sutherland, University of Alberta, Canada, the author of the paper, in an email interview.

The internal movement of water within seas from cold, dense regions to warmer, lighter ones constitutes the largest observable waves. These can stretch to wavelengths of over a hundred metres and travel from top to bottom. Like normal water waves, these propagate due to a variation of density of the water and not when there is constant density. In a staircase-like formation, though the density is constant within the step, there is a jump in density from one step to another. Hence, the wave’s energy can be transmitted from one interface to another.

Though not predominant, thermohaline staircases do occur in many places. “As well as the Arctic, they are persistent in the Caribbean Sea. This is due to surface heating and evaporation resulting in warm salty water overlying colder fresher water. They do not exist where there are strong currents, as in the Antarctic, which have enough energy to stir up any staircases that might form,” says Dr Sutherland.

### Selective filtering

So the scenario is that when an internal wave strikes a density staircase, a part of its energy may be transmitted through the staircase. In other words, density staircases in the ocean can act to reflect short wavelength internal waves and transmit longer wavelength waves. This is analogous to the selective transparency of glass windows on modern buildings that have multilayered coatings designed to reflect red light (long wavelength light) and allow green-blue (shorter wavelength) light through

On reaching the ocean floor, the long-wavelength waves which have been transmitted cause turbulence and mix up the water. The warm waters then rise to the top and warm the top layers.

“Strong storms passing over the Arctic typically generate waves on the order of 10-100 km horizontal scale. As sea-ice retreats and storms passing over the increasingly non-ice-covered ocean generate more and more waves, it seems that still a substantial fraction of this energy can transmit to depth, and this may consequently cause mixing at depth that could bring those deep warm (but salty) waters closer to the surface. The filtering that my theory predicts suggests that the energy transmitted to depth might be moderately smaller than one would expect in the absence of density staircases. But, for the most energetic waves — those transmitted by storms — the decrease is not substantial,” says Dr Sutherland.

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