राष्ट्रदुत

#ENVIRONMENT

Buckle Up!

Prepare for temperatures reaching 'uncharted territory,' the World Meteorological Organization warns.



are almost guaraning, the World Meteorological Organization today. Climate change has already raised baseline tema weather pattern known as El Niño is going to make things even hotter when it develops later this year.

That one-two punch from El Niño and climate change is expected to "push global temperatures into uncharted territory," WMO Secretary General Petteri Taalas said "This will have far-reaching repercussions for health, food security, water management

There's a 98 percent chance that one of the following five vears will be the warmest on record, according to a WMO report released today. There's that the average temperature for the entire five-year period will be hotter than the previ-

The planet is already run-



hottest on the books, the WMO reported in January. In the past few years alone, we've witnessed the jaw-dropping damage that extreme temper-

heatwave ever recorded in North America buckled roads and triggered a spike in emergency department visits in the Pacific Northwest US in 2021. China suffered its most severe heatwave on record last year. It was so widespread and long-lasting - stretching out more than 70 days - that it was likely also the most severe heat spell ever documented in the world, according to weather historian Maximiliano Herrera. Another record-smashing heatwave in July of last year sent temperatures in the note riously cool and cloudy UK

soaring above 40 degrees Celsius for the first time - an event researchers found to be "virtually impossible" without climate change. All of that went down

of a rare and unusually long-



atures can bring. The most extreme summer

> ly overshoot the 1.5-degree target over the next five years. that we will permanently exceed the 1.5°C level specified in the Paris agreement. which refers to long-term warming over many years. However, WMO is sounding the alarm that we will breach the 1.5°C level on a temporary basis with increasing frequency," Taalas said in the

Not that long ago, in 2015, the chance of the world experiencing warming above 1.5 degrees Celsius was near zero. But we're living in a different world today - and with out swift action to tackle climate change, it's going to keep throwing us a lot more curve-

despite the mitigating effects



Niña nor El Niño taking place, trade winds over the Pacific Ocean help push warm waters westward from South America toward Asia. As that happens, cooler water rises from deep in the ocean toward the surface. Those trade winds weaken with El Niño, allowing warm water to flow back east. The warmer water also pushes the Pacific jet stream, a fast-flowing air current, southward - which can influence the weather.

El Niño is expected to take shape sometime between May and July and last at least until the winter, according to the National Weather Service Climate Prediction Centre. It can take up to a year before El Niño starts to affect global temperatures, the WMO says, which could be 2024 in this

With El Niño likely to push the mercury up even higher than we've seen during the persistent La Niña event over he past few years, global temperatures could soon breach a worrying benchmark. There's now a 66 percent chance that during at least one year between 2023 and 2027, the annual average global temperature will rise more than 1.5 the preindustrial era (aka before burning fossil fuels created enough greenhouse gas pollution to heat the plan-

strives to keep the world from the right to bear those insignia of warming beyond that thresh-Mewar's royalty in perpetuity. old. So far, the planet has The Maharana's horse, Chetak warmed by around 1.1 degrees often referred to as 'the Flying Horse', played a vital role in saving Celsius above preindustrial levels - which is the main driv his master and enabling his safe er of the more extreme weathpassage from the battle-field. The er we're already seeing today. grievously injured Chetak finally fell to the ground, exhausted and There's still a slim window of time to achieve that goal dying, some two miles from since the WMO predicts that Haldighati, near Balia village. Chetak's final effort had been to the world will only temporarileap across a wide chasm that was too broad for any enemy followers "This report does not mean to cross with his master still on his back. Pratap honoured his horse, and later a memorial was erected at

the spot where the horse fell. **An Emotional Reunion**

There is a popular story about the Maharana meeting and forgiving his brother Shakti/ Sakat Singh at this time. According to a popular tale, Shakti [Sakat] Singh, having fought on the side of Emperor Akbar, and against his own land of Mewar, followed Maharana Pratap as he left

Mewar was no Mean Task! (...3) Mewar citizens who had migrated southwards, or even out of Mewar, during the turbulent years of Mewar-Mughal confrontation began to drift back to their lands where possible. Agricultural activity picked up as the Mewar State policy now turned to encouraging agriculture in lands under the Maharana. This was assisted by a series of good monsoon years.

Dr. Rima Hooja

An archaeologist,

ratap's nobles pre-

vailed upon the

Maharana to leave the

grounds that while he

lived to fight on the

would remain alive.

Pratap was reluctant

battle-field.

his nobles, as it was not in his char-

acter to leave a battle-field midway

and save his own life, but the larger

Sadri and from the Jhala clan,

donned the Mewar royal regalia,

the thick of the battle, donning cer-

tain visible emblems of royalty like

the canopy (chhatra). The Jhala

chief fell in battle eventually fight

ing valiantly to the end. In acknowl-

edgement of the sacrifice, Pratap

gave the Jhala noble's descendants

and took the Maharana's place in

Man Singh Jhala, chief of Bari

historian, writer &

he came upon his brother besides the fallen Chetak, he was filled with remorse at the thought that while the noble steed had given his life for his master, he himself had wasted so much time in opposing and hounding his own brother, Pratap, and supporting his enemies. Shakti begged forgiveness and after an emotional reunion, offered his own horse, in place of the dead Chetak, to Maharana Pratap so that he could continue to fight and lead Mewar. Shakti himself took guard to deal summarily with the enemy that followed. Many historians, among them Drs. G.H. Ojha, G.N. Sharma and Raghubir Sinh Sitamau, however, have come to the opinion that this stirring story of the meeting between the two brothers, Pratap and Shakti Singh, after the fight at Haldighati is a legend without historical backing, which originated

century Raj-Prashasti in Maharana Raj Singh's reign. Mughal annals make no mention of the presence of Pratap's brother during the Imperial campaign against the Maharana, and contemporaneous Khyat writers too have made no mention of any meeting between Pratap and Shakti

Attention was given to good quality

along the sides of crop fields. Routes

opened, which helped in the revival

and his Mewar, and even Emperor

Akbar found himself constrained to

come into Mewar to search for his

elusive enemy. Between 1576 and

1585, Pratap foiled numerous expedi-

tions sent under experienced Mughal

commanders as recounted in texts

like Rana-Raso, Amarsar, etc. Full

use was made of the natural terrain

of Mewar and the Mughal supply

lines and traffic along the traditional

Mewar-Malwa, Mewar-Gujarat, and

Aimer-Gujarat routes was disrupted

on many occasions. Over time, vari-

ous forts, settlements, villages and

townships became associated with

the Maharana's rapid movements

Machin, Zawar, Dholan, and eventu-

In March 1581, Shahbaz Khan had

Akbar that Mewar's power had been

permanently crushed. It was an

over-optimistic statement, however,

as Maharana Pratap continued his

guerrilla warfare resistance, break-

ing up Mughal lines of communica-

tion, and continuing to have a well-

entrenched and effective espionage

system covering the Mughal troops,

as well as a scorched earth policy

Traditional accounts underline

that during this period the land was

not ploughed and kept fallow by the

Mewaris from before Haldighati to

after the battle of Dewair in 1582.

Willful disobedience in carrying

out agriculture production where

forbidden by the Maharana's order

carried the death penalty.

Detween 1585 and his death in

D January 1597, the Maharana

Chappan area, Vagar, and other

Amar Singh played his part too,

administrative duties. However,

Pratap was never able to recover

leading troops and taking on

his ancestral capital, Chittor.

substantive parts of Mewar. Prince

succeeded in recovering the

Significantly

ally Chayand, to name a few.

Ubeshwar, Dholiya,

and temporary headquarters

seeds, fertilizers, propagation of

to Malwa and Gujarat were re-

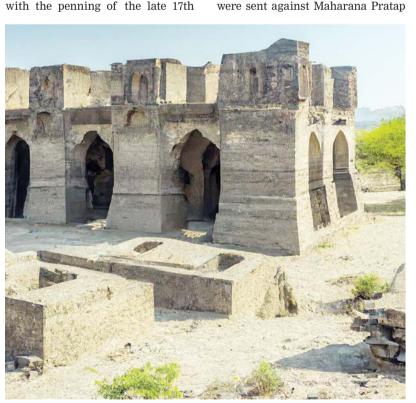
of trade and economic activities.

among

grafted shrubs, and planting trees

According to G.N. Sharma, the once pro-Akbar Sakat Singh probably died fighting on Mewar's side within the besieged fort of Chittor in 1567-68 within Rana Udai Singh's life-time itself. Sakat Singh had apparently fallen out with the Emperor in 1567, and one popular version says it was Sakat who brought the news of Akbar's mpending invasion of Mewar to his father at the then Mewar Court within Chittor fort)

At the end of the battle, both sides claimed victory. Mewar, because there had not been any surrender. and the Mughal army, because it had not been repelled. Neither side had yielded. The saga was only half-way complete, and many more campaigns were sent against Maharana Pratap



#VALOUR

Ruined Palace of Maharana Pratap at Chavand

Chakrapani's work was used for finding water, constructing water bodies, giving horticultural inputs and for tree plantations around Avargarh, near Jhadol as early as 1577, even as the Maharana was hard-pressed for shelter, shade and

After Scorch Earth, Rejuvenating

Pratap also made use of the old mining works, protected by a network of minor fortresses at Zawar Mewar is famed for its rich deposits of copper and iron ore, besides the zinc, lead and silver around the Zawar area that were a source of revenue for Pratap's ancestor Rana Lakha and subsequent successors. The old workings and mine shafts around Zawar are believed to have been one of the places used for refuge, storage of a partial treasury, and for collecting arms by Maharana Pratap and his entourage. It appears that it was also a place used to strike coins.

The battle fought at Dewair in 1582 marked a turning point in the history of Pratap's fight against the Mughals. Several Mughal garrison outposts were overrun, and the tract stretching from Dewair to



Maharana's horse- Chetak's Smarak

Kumbhalgarh cleared of Mughal occupation. After the decisive victo-Maharana Pratap was set on the path to take Mewar towards stability and economic revitalisation.

The Mughal expedition of 1584-85 against Maharana Pratap was the last major campaign by Mughal forces against Pratap. In 1585, Akbar moved to Lahore, to control the north-western boundaries of his Empire, and thereafter did not despatch further expeditions against Pratap.

Meanwhile, Maharana Pratap established his new capital at Chavand, near present-day Dungarpur, in 1585, and over time built a palace, administrative buildings, stables, township and a temple to Chamund-Mata, using local stone and lime-mortar. The 'Amarsar' tells us that from here Pratap was able to establish order, re-organize the administrative system, and encourage milk-production, tree plantation, and fruit orchards across the lands under him. New settlements and towns were established, with land-grants issued to trusted aides, and others. The citizens gradually became poverty-free The Chavand Court sheltered poets, writers, artists and artisans.

Between 1585 and his death in January 1597, the Maharana succeeded in recovering the Chappan area, Vagar, and other substantive parts of Mewar. Prince Amar Singh



The place where Amar Singh Dispersed his Ashes.

smaller pits, was also encouraged. olayed his part too, leading troops and taking on administrative duties Significantly, agriculture related However, Pratap was never able to state initiatives during the latter ecover his ancestral capital part of Pratap's reign seem directly Chittor, even though he managed to related to the advice provided in the 'Vishva-Vallabha'. The policies conestore Mewar's control over some the area around Chittor tinued to be implemented during Iandalgarh too remained under the reign of Pratap's son, Maharana Mughal authority. Gradually, some Amar Singh too. In addition, it Mewar citizens who had migrated would appear that the 'Vishva southwards, or even out of Mewar. Vallabha' remained an important during the turbulent years of practical manual for agriculture Mewar-Mughal confrontation began under successive Mewar rulers well to drift back to their lands where into the 18th century possible. Agricultural activity The 'Vishva-Vallahha' was writ picked up as the Mewar State policy ten at a critical time in the history of now turned to encouraging agricul ture in lands under the Maharana This was assisted by a series of good nonsoon years. Attention was given to good quality seeds, fertilizers the immediate as well as long-term propagation of grafted shrubs, and future of Mewar, and for a suitable planting trees along the sides of state policy that would provide both, crop fields. Routes to Malwa and re-settlement spaces for displaced Gujarat were re-opened, which rural agrarian communities, and helped in the revival of trade and new settlements in mainly hilly

Cotton plantations were encouraged, and an entire township, called

Kapasan (from the word kapas, neaning cotton), was established by Maharana Pratap, as known from a copper land-grant found at Instructions Godivana. Chakrapani Mishra's text were apparently closely followed to care for trees struck by lightning, and foster better orchards. The growing of vegetables oil-seeds such as sesame and mustard, lentils, flow-

tile river-fed plains areas of Mewar into 'scorched earth'. The role of Chakrapani Mishra and his 'Vishva-Vallabha' in the re-vitalization and invigoration of Mewar's fields. forests and farmlands at this critical time is worthy of recognition. Concluded ers, and mangoes with altered rajeshsharma1049@gmail.com

forested lands with populations of

Bhils, Garasias etc., that were less

based on settled agricultural prac-

tices. These policies encouraged

resettlement of people in other

areas, enabled new orchards and

farming spaces, and kindled hope

during a prolonged period of prob-



#TRIED&TASTED

Refreshing Summer Drinks for Children

These drinks are perfect for quenching your thirst this summer.



Cherry Limeade

Ingredients 2 oz of frozen cherries A cup of fresh lime juice

(granulated) 4 cups of water

A cup of sugar

with a cup of water and sugar in a nedium saucepan Stir constantly. Strain it and refrigerate. Add three more cups of water

fine mixture.

2. Low boil the cher-

the lime juice into a

Preparation and serve it over 1. Puree cherries and



healthy summer drinks.

when the sun is blazing in the sky and tem-

perature is soaring up. Fluid intake is essen-

tial for both outdoor and indoor activities.

During hot summer days, children should

avoid artificially flavoured drinks in favour of

Refreshing Lime Water

A cup of freshly 1. Squeeze the juice from the limes and remove the seeds. Mix with ice water

Approximately Garnish the drink with lime slices and sprigs of 3. You can also make lime ice cubes by freezing the

iuice in ice cube travs. Fresh sprigs of mint 4. You can pop the frozen

Tropical Party Punch Ingredients 1. Mix the mango nectar, lime 2 litres of mango nectar juice, pineapple juice, and

4 tablespoons of sweetened **9** oz can of pineapple juice

Maraschino cherries

3 tablespoons of grenadine A litre of seltzer water

coconut cream in a large pitcher until they are com bined very well. This is the base of the punch. 2. Store this in the fridge unt they are ready to serve. 3. Fill the glass with ice and fill 2/3 of the glass with the base. You can top it off with seltzer water and grena-



Pink Lemonade Punch

Ingredients A can of frozen pink lemonade concentrate

5 cups of white cranberry juice cocktail 5 cups of lemon-lime soda (chilled) Fresh mints sprigs

Preparation 1. Stir the

lemonade concentrate and cranberry juice cocktail together in a large nitcher 2. Cover the pitcher and chill.

with fresh mint.

3. When you are ready to serve, stir 4. Garnish this drink

Ingredients chunks

Preparation 1. Put all the ingredi-**2** cups of cold pineapple

Agua Fresca

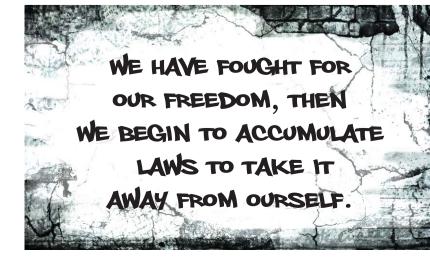
ents in a blender . Well blend all the 2 cups of cold ingredients. strawberries, hulled **8** cups of water

1/4 cup of sugar blend

. Pour it directly into the glasses or sieve

By Jerry Scott & Jim Borgman

THE WALL



BABY BLUES



NO BIG DEAL T WAS A SIMPLE MISUNDERSTANDING

By Rick Kirkman & Jerry Scott



ZITS



EVERYTHING I PLAY



