

# 'The upcoming El Nino event could cost India \$1 trillion in losses'

**Justin S. Mankin** is Associate Professor of Geography at Dartmouth College. Speaking with **Srijana Mitra Das** in **ET Evoke** on World Environment Day, he explains the working of an impending El Nino, its implications for global weather patterns — and the Indian economy:



**Q. How exactly does an El Nino work?**  
A. El Nino is a phenomenon that occurs in our complicated climate system. It is thought of typically as a pattern of sea surface temperatures that occur in the tropical Pacific — it's a question of how much warmer or cooler than average those sea surface temperatures are. An El Nino occurs when those sea surface temperatures in the eastern tropical Pacific, near Peru, tend to be warmer than average. In a La Nina, those temperatures are cooler than average. That's an amplification of the 'neutral state', when the eastern tropical Pacific has average temperatures which happen to be quite cool. This is

linked to the feedback mechanisms that set up El Nino, or the El Nino Southern Oscillation (ENSO), as a phenomenon. This is driven by winds. The prevailing winds along the equator flow from the east to the west. Those easterlies have this tendency to push all the water near Peru towards the West Pacific. Now, the waters in the West Pacific are really warm, piled high in the West Pacific than in the East Pacific. When an El Nino happens, there's a breakdown in the strength of those easterly winds and all that water piled high in the West Pacific sloshes and spreads out over the tropical Pacific and Eastern Pacific Ocean, allowing sea surface temperatures to rise — this is a massive reconfiguration of weather and climate. In an El Nino, all the heat typically concentrated in one small space gets spread out over the entire expanse of the Pacific Ocean. In doing so, there is a reconfiguration of the way energy is exchanged between the ocean and atmosphere. The ocean is a major heat engine for weather globally. And in that reconfiguration, it adds a lot more energy to the atmosphere.

**ET EVOKE**

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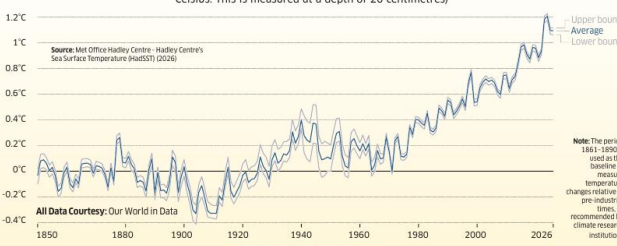
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## Hot Water: Annual Sea Surface Temperature Anomalies vis-a-vis the Pre-Industrial Era:

(The difference of average sea surface temperatures worldwide compared to the mean from 1861-1890, in degrees Celsius. This is measured at a depth of 20 centimetres)



**As The Ocean Warms Up...**  
In an El Nino event, easterly winds lose strength to push warmer waters of the West Pacific eastwards — these then spread across a wider sea. As this adds more energy to the environment, heat increases and precipitation changes, causing, for instance, forecasts of a lower or slower monsoon in India this year

It is no coincidence that the hottest years on record tend to be El Nino years — that is because of this phenomenon of taking concentrated heat and spreading it out spatially, such that more of the atmosphere is exposed to it.

An El Nino has impacts in different regions around the world via 'teleconnections' which can manifest as warmer or cooler temperatures or changes in precipitation patterns. In India, the IMD, for instance, has put out an expectation that this year's Indian monsoon will be below average, owing in part to these canonical teleconnections between El Nino and what happens in India in terms of precipitation, either suppressing the monsoon somewhat or delaying its onset in some places.

**Q. You've studied the economic impacts of earlier El Ninos — could you tell us about those?**  
A. We've shown in our previous work that the climate system matters to the

economy — and that impact is measurable at the global macroeconomic scale. Climate affects energy transport, labour productivity and the efficiency with which you mobilise labour and capital to produce goods. Extremely hot weather, such as that which India has been experiencing this spring, slows down workers while floods or delays in the onset of the monsoon can cause agricultural damage. Storms or other weather deviations can impact commodities markets, the production of energy, the mining of metals, agricultural production, the transport of goods and services to market, etc., which then up-aggregate through all other sectors of the economy.

Among such impacts, a very salient one for India is the agricultural effects of such a deviation and what this might imply for, say, groundwater pumping and energy costs as people rely more on irrigation to mitigate a delayed or depressed monsoon — that can then create energy cost spikes and diverse political realities.

“An El Nino year is actually like the 'normal' climate we will have a decade later — investing in El Nino impact mitigation is essentially investing in climate management, feeding two birds with one biscuit”

**Q. You argue an El Nino's impacts persist over years — could you elaborate?**  
A. In our 2023 paper, Christopher Callahan and I showed the economic toll associated with El Nino events persist for multiple years — in fact, given the data, we can't rule out the possibility that these impacts are permanent. We've found El Nino, even without global warming, are very costly to society economically. For example, we just ran some analyses with the current El Nino forecast, predicted to be sizable with near certainty this year, manifesting in a peak between November

**World Environment Day: Be Eco-Logical**  
2026 and January 2027 — this El Nino could depress economic growth in India by such a considerable amount as to cost the economy a trillion dollars by, say, 2032. If we calculate the accumulated economic losses associated with this forthcoming El Nino event, we're looking at over a trillion dollars foregone alongside, the global economic toll could be above \$10 trillion. These figures represent economic productivity that would otherwise have been realised if this El Nino did not occur. At that taking place, while India's economy may continue to grow, it will grow at a slower rate than otherwise.

Broadly speaking, the impacts at a national level are a function in part of teleconnection strength or whether the weather and climate are most intimately tied to what's happening in the tropical Pacific. This means countries in South America will be affected and India will also be among the most heavily impacted because what El Nino does to Indian weather and climate is to amplify extreme heat and depress the monsoon. Of course, different spatial patterns of sea surface temperature warming in the tropical Pacific have different teleconnections to diverse regions. There isn't one rule of thumb, and so, there's some uncertainty about what physical climate uncertainty will manifest as economic uncertainty. My expectation, given just the magnitude of this El Nino, is that next spring in India will be extremely hot.

**Brief Notes**  
Groundwater extraction in India is not sustainable

amplify that — then, when you have El Nino events, some models suggesting global warming will increase the prevalence and magnitude of El Ninos, those will amplify the overall impacts and costs of global warming.

**Q. What measures should governments of vulnerable economies start adopting now?**  
A. One of the clearest takeaways from my research with Chris Callahan is as the impacts of global warming look a lot like those of El Nino, pursuing risk mitigation strategies to manage one is investment in managing the other. This is essentially feeding two birds with one biscuit, so to speak — investments in extreme heat mitigation will serve Indian society both for El Ninos and wider global warming. Extreme heat warning systems to reduce mortality and morbidity burdens. Better forecasting creates lead time to mobilise and place resources in effective communities to prevent those deaths. Investment in better El Nino predictions will also give societies time to allocate resources and mitigation, including for heat events in the tropics. Investments in early warning systems, cooling centres, regulations for outdoor labourers, changing schooling hours, ensuring people can be sufficiently overwintering in the tropics. On the agricultural side, governments must consider irrigation practices and unsustainable pumping which does occur in many parts of India now. It's essential to also consider drought possibilities and invest in heat-resistant cultivars to ensure yields continue to increase in the face of these extreme heat events and/or delays in the onset of the monsoon.

There are also untold implications for energy aspects like hydropower generation and the reliability of that. In all this, I think if we are interested in building resilience to the status quo, that means migrating our energy system from a carbon-based 20th century model to a decarbonised 21st century model. That involves renewable energy and technology transfer from solar developers, geothermal and wind power developers. Governments must also ensure those technologies reach the hands of communities that can wield them to great effect to ensure energy resilience in the face of this climate variability and its interaction with global warming.

**The Answer, My Friend? Renewables enable deeper resilience to shocks**  
Views expressed are personal  
Read ET Evoke online at: <https://www.economictimes.com/et-evolve/justin-mankin>

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## Cold Storages Choke as Gulf Shipments Diverted to India

Logistics bottlenecks affect exports and storage cycles: Traders

Shambhavi Anand

New Delhi: Cold storages are overflowing with imported apples, avocados, dry fruits, and other perishables, while traditional suppliers to the Gulf diverting shipments to India amid the widespread shipping turmoil caused by a red sea war.

Traders said the logistics disruption has also hit exports of Indian produce, adding that it has disturbed the timing and seasonality of cold storage operations.

“We hardly have any avocados coming in from Kenya due to high import duty; however, this year, Kenyan avocados meant for Middle Eastern markets landed on Indian ports as the original destination ports were closed,” said Ajay TG, general manager, Westfalia Fruit India, a global avocado supplier.



In April and May, avocados for India couldn't reach its shores as there were hardly any vessels coming in due to the closure of the Strait of Hormuz, sparking a shortage.

The problem is more persistent at ports, said industry executives. In addition, rising fuel cost is affecting cargo movement within the country, squeezing demand for dry fruits and slowing down in consumption in secondary markets such as traditional sweet manufacturers due to higher product prices.

“The consumption in the secondary market, especially dry fruits used in sweets, has slowed down,” said Sumit Saran, director of SS Associates, which imports dry fruits, apples, and avocados.

The crunch is worsened by a lack of storage space, with nearly 70% of India's cold storage capacity reserved for potatoes. With ports getting clogged, exporters were forced to hold their products outside these facilities.

Perishables had to find places in cold storages ad hoc basis, said Mukesh Agarwal at the Federation of Cold Storage Associations of India, adding that the issues were more pronounced in March and April.

India has around 8,800 cold storage facilities with a combined capacity of about 40.2 million metric tonnes as of 2025, according to industry estimates.

## Southwest Monsoon Arrives in Kerala: IMD

New Delhi: The southwest monsoon set in over Kerala on Thursday as the India Meteorological Department (IMD) said, marking the onset of the four-month rainy season that is critical for agriculture and the economy. The monsoon typically reaches Kerala around June 1 and signals the beginning of the June-September southwest monsoon season.

“The southwest monsoon has further advanced over the remaining parts of the southwest and southeast Arabian Sea, some parts of the west-central and east-central Arabian Sea, the entire Lakshadweep Islands, Kerala and parts of Karnataka, Tamil Nadu, and the remaining parts of the Comorin area, southeast Bay of Bengal, and more parts of the southwest, west-central, east-central and northeast Bay of Bengal today, June 4, 2026,” the IMD said.

The weather office had earlier forecast the onset of the southwest monsoon on June 26, but its arrival was delayed. Last week, the IMD revised its seasonal rainfall forecast, projecting below-normal rainfall for the country. It expects India to receive rainfall amounting to 96% of the Long Period Average (LPA) during the 2026 monsoon season. PTI

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## Livestock Industry Demands 1.5 MT Soymeal Imports Amid Price Surge

Industry cites soaring feed costs and falling soybean output

Jayashree Bhosale

Pune: India's livestock industry has urged the government to allow imports of 1.5 million tonnes of soybean meal after domestic prices of the key poultry feed ingredient surged nearly 50% over the past two months, raising costs for farmers and squeezing margins across the sector.

In a letter to the Centre, the Compound Livestock Feed Manufacturers Association of India (CLMAF) said soaring soybean and maize prices are hurting livestock producers.

The price spike has also made Indian supplies uncompetitive in global markets, curbing exports and prompting higher imports of non-genetically modified (non-GM) soybeans from Africa.

We have requested the government to allow import of 15 lakh tonnes of soybean meal under the tariff rate quota (TRQ) route as poultry farmers are facing losses due to high feed prices, particularly soybean and maize,” said Divya Kumar Gulati, president of CLMAF.

Soybean meal prices have risen about 45% in the past two months as domestic soybean production in 2025-26 is estimated to have fallen to 105 lakh tonnes from 125 lakh tonnes a year earlier, a decline of around 16%.

Prices, however, have eased in recent days, falling from ₹63.64 per kg to ₹57.58 per kg.

**RAIL WHEEL FACTORY**  
Vishakhapatnam, BANGALORE - 500 004  
Website: [www.railwheels.co.in](http://www.railwheels.co.in)

**E-TENDER:** On behalf of the President of India, the Principal Chief Mechanical Engineer invites electronic tender for the following work online through the following website: [www.mep.gov.in](http://www.mep.gov.in) (Works)

**E-TENDER NOTICE No. RWF/MTOT/AMS/2026-27/26 dtd. 02/06/2026**

**Tender No.:** RWF/MTOT/AMS/2026-27/26  
**Name of the work:** Outsourcing of Rough turning/turning of 6000 numbers of Bx-I axle from firm premises. Estimated Cost: Rs. 4,61,60,000. EMD: Rs. 9,23,200.

**E-TENDER NOTICE No. RWF/MTOT/AMS/2026-27/27 dtd. 02/06/2026**

**Tender No.:** RWF/MTOT/AMS/2026-27/27  
**Name of the work:** Outsourcing of Rough turning/turning of 6000 numbers of 25T axles from firm premises. Estimated Cost: Rs. 4,61,60,000. EMD: Rs. 9,23,200.

**Date & Time of Closing of Tenders:** 24/06/2026 at 10:30 hrs. Completion Period: 06 months.

**Tender notice and eligibility criteria can be viewed on our website:** [www.rwf.indianrailways.gov.in](http://www.rwf.indianrailways.gov.in)

**DT: CMEP**

**Government of Kerala**  
Published Tenders from 01-06-2026 to 03-06-2026

**Stationery Department**  
Tender ID: 2026 STY 853725 \* 1 Stationery Controller \* Supply of Maplino Paper 75 gsm RA1 \* Closing Date: 22-Jun-2026 \* PAC: Rs5580000  
Tender ID: 2026 STY 853906 \* 1 Stationery Controller \* Supply of White Offset Paper 75 gsm 86 cm Red \* Closing Date: 24-Jun-2026 \* PAC: Rs7680000  
Visit: <https://tenders.kerala.gov.in> for more details.  
Ref.No: 01/33/Jun/2026/PRIN/J8

**GENERAL INSURANCE CORPORATION OF INDIA**  
(A Government of India Company)  
GIC Re "Suraksha", 170, J. Tala Road, Churchgate, Mumbai-400020

**TENDER**  
GIC Re intends to empanel brokers for Equity Trading.  
The notice inviting the Request for Proposal for this purpose is posted at GIC's website <https://www.gicre.in> under the tab 'Tenders & Notices' → 'Investment Department'  
Last date for submission: 7<sup>th</sup> July 2026 ; till 5.00 PM.

**बैंक ऑफ इंडिया Bank of India**  
Zonal Office: "Star House" Vibhuti Khand, Gomti Nagar, Lucknow-226010 Ph. 0522-2721512

**E-Auction Notice**  
Sale Notice for Sale of Immovable Properties Under the proviso to Section 9(1) of the Security Interest (Enforcement) Rules, 2002

**The last date for submission of EMD/Documents is 24.06.2026, 05:00 PM**  
**Date and Time of E-Auction 25.06.2026, (11:00 AM to 05:00 PM)**

| S. No. | Name & Address of Borrowers & Guarantors/Amount Outstanding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 1.     | <b>Branch: Asset Recovery Branch, Lucknow, Senior Manager, Amit Kumar Yadav, Mob.: 9415389015</b><br>1. <b>Mrs. Nikita Agarwal (Borrower) a Proprietorship Firm</b> All that part and parcel of the property consisting of Plot No. 328 V, Mutipkaur, IM Road Lucknow-226021 (U.P.)<br>2. <b>Mrs. Nikita Agarwal (Prop.)</b> W/o Mr. Dhiraj Agarwal, House No. 47, Plot No. 109, Sector-109, Lucknow-226001 (U.P.)<br>3. <b>Mrs. Neeraj Agarwal (Prop.)</b> W/o Mr. Dhiraj Agarwal, House No. 47, Plot No. 109, Sector-109, Lucknow-226001 (U.P.)<br>4. <b>Mrs. Neeraj Agarwal (Prop.)</b> W/o Mr. Dhiraj Agarwal, House No. 47, Plot No. 109, Sector-109, Lucknow-226001 (U.P.)<br>5. <b>Mrs. Neeraj Agarwal (Prop.)</b> W/o Mr. Dhiraj Agarwal, House No. 47, Plot No. 109, Sector-109, Lucknow-226001 (U.P.)<br>6. <b>Mrs. Neeraj Agarwal (Prop.)</b> W/o Mr. Dhiraj Agarwal, House No. 47, Plot No. 109, Sector-109, Lucknow-226001 (U.P.)<br>7. <b>Mrs. Neeraj Agarwal (Prop.)</b> W/o Mr. Dhiraj Agarwal, House No. 47, 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