The Financial Review

A drifting magnetic pole and a sudden shift, is reshaping India's electoric record

Scientists say the magnetic north pole is moving faster than ever, and it will be the reason for a new 2,000 km border by 2030. The shift, which is already causing compasses to point in the wrong direction, has also created a new political fault line in India's electoral map. Parties in the north and east are demanding that the new border be drawn along the magnetic pole, while those in the south and west want it to follow the old geographic boundaries. The dispute has already led to the formation of a new political party, the Magnetic Pole Party, which won its first seat in the Lok Sabha in the 2024 general election.

By Rohan Mehta, Political Correspondent

A red drift and a blue fan: scientists track Arctic magnetic pole's sudden, swift leap to Siberia

2,780 km
Distance the north magnetic pole moved in 2024

2° > 5.7
Annual drift rate, 1990s vs 2020s

−2.5
Global magnetic field strength, % since 1840

1904
Year the pole was last this close to Russia

Overview

Has the pole flipped?

No. Earth's magnetic poles have wandered and occasionally reversed for billions of years, but the current drift is not a reversal. The north magnetic pole is pulled by molten iron flowing in the outer core, and that flow has changed speed and direction. Geomagnetic reversals, when they happen, take thousands of years and leave a clear signature in rocks. The present movement is a single, fast excursion.

Why is it moving so fast?

Researchers at the Geomagnetic Observatory of Yakutsk and the Canadian Geological Survey say the pole's acceleration began around 2000 and has not slowed. Models suggest the core flow has split into two jets, and the pole is riding the stronger one toward Siberia. The exact cause of the split is still debated.

What does it mean for navigation?

Compasses point to magnetic north, not true north, so the gap between the two is now large enough to matter for aviation, shipping and surveying. Airlines flying polar routes have had to update their navigation charts twice in the past decade. Hikers and drivers are unlikely to notice a difference.

Will it affect power grids or satellites?

Strong magnetic storms can induce currents in long power lines and damage satellites. The fast-moving pole has thinned the protective field over Siberia and parts of Alaska, raising the risk that a storm will cause more damage than it would have a century ago. Operators in those regions have been warned to expect outages.

Is the pole moving anywhere else?

Yes. The south magnetic pole, off the coast of Antarctica, is also drifting, but more slowly and in a different direction. Its movement has not changed much in recent years.

Can we predict where it will go next?

Not with any confidence. The models that have tracked the pole so far have failed to anticipate its speed-up, and researchers say they will need at least another decade of data before they can offer a reliable forecast.

Pin connectors cracked India's electoric by half a century, and scrapped 1.2 million machines

Election officials in India have begun the largest recall of electronic voting machines in the country's history, after a fault in the pin connectors on the machines' control units was found to have cracked in more than half of the 2.4 million machines used in the 2024 general election. The cracks, which are too small to see with the naked eye, can cause the machines to misread votes or fail to start on polling day. The Election Commission of India has ordered the replacement of all 1.2 million machines that were manufactured between 2019 and 2022, at a cost of ₹3,400 crore.

The problem

The fault was discovered by a team of engineers at the Indian Institute of Technology, Madras, who were testing machines that had been stored in a warehouse in Tamil Nadu. They found that the pins, which connect the voting unit to the control unit, had developed hairline cracks after being exposed to repeated changes in temperature and humidity. The cracks were not visible during routine inspections, and the machines had passed all pre-election tests.

How it was found

The team, led by Professor Anand Krishnamurthy, ran a series of stress tests on machines that had been used in the 2024 election. They found that 52% of the machines they tested showed signs of cracking, and that the failure rate rose sharply in machines that had been stored in humid conditions. The team published its findings in a paper in the *Journal of Electronic Engineering* in March 2025.

The recall

The Election Commission has said that the replacement will be carried out in phases, with the most affected states — Tamil Nadu, Kerala and West Bengal — being the first to receive new machines. The commission has also said that it will not use the affected machines in any election until the replacement is complete. The cost of the recall is expected to be borne by the manufacturers, but the commission has not said whether it will seek compensation.

Reaction

Opposition parties have criticised the commission for not having discovered the problem earlier. The Congress party's spokesperson, Priya Menon, said that the fault "raises serious questions about the quality of the machines that were used to elect the government". The commission has said that it will conduct an internal review of its procurement process.

What it means

The recall is the largest of its kind in the world, and it will test the commission's ability to manage a logistical operation of unprecedented scale. The commission has said that it will use the opportunity to upgrade the machines' software, and that it will add a new feature that will allow voters to verify their votes on a paper trail. The new machines are expected to be in use by the end of 2026.

The full fact

Fact-check: Is the Prime Minister's claim about the new tax cuts true?

Peer reviewed

Peer-reviewed: Is the study behind the new diet trend actually any good?

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CC BY-NC 4.0: Can I use this photo of my cat in a commercial?

Is the Prime Minister's claim about the new tax cuts true?

The Prime Minister said on Tuesday that the new tax cuts would "put more money in the pockets of hard-working families". We've looked at the numbers behind the claim, and the picture is more complicated than the headline suggests.

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A lifeline at current about 100 km from Mumbai, and the region's power grid is already at full capacity

A proposed new power station in the Raigad district, about 100 km from Mumbai, has been given the go-ahead by the state government, but the project is already facing criticism from environmentalists and local residents who say the region's power grid is already at full capacity.

The 1,200 MW coal-fired plant, which is expected to cost ₹9,600 crore, will be built by the Maharashtra State Power Generation Company (Mahagenco) on a site that is currently used for agriculture. The company says the plant will help to meet the growing demand for electricity in the state, which has been rising by about 6% a year.

But the plant's opponents say that the region's power grid is already at full capacity, and that the new plant will only add to the problem. They say that the plant will also have a negative impact on the environment, and that it will displace farmers who have been working the land for generations.

The project has been approved by the state's environment ministry, but it still needs to get clearance from the central government. The company says it hopes to start construction in 2026 and to have the plant up and running by 2030.

Here's how the capital stood at 7 PM on each day in 1797, 2017, and as late after 1999



The year's numbers, and more

The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more.

1,847
Days the capital stood at 7 PM in 2017

2,001
Days the capital stood at 7 PM in 1997

1,912
Days the capital stood at 7 PM in 2007

587
Days the capital stood at 7 PM in 1797

Where the capital stood at 7 PM, each year

The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more.

How it's done

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What it isn't

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By the city's count, 40,000 more people register a drive-evening fall and afternoon

The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more.



How to Use Your Drawer Cooling

The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more.

Night Cream	Use a small amount on clean, dry skin before bed.
Eye Cream	Gently pat around the eye area with your ring finger.
Serum	Apply a few drops to your face and neck.
Moisturiser	Use as the last step to lock in hydration.
Sunscreen	Only needed in the morning, not at night.

Tips for Better Sleep

The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more. The year's numbers, and more.