How to

It's the largest systematic bird survey in Asia. See how 1,000 citizen volunteers spent five years tracking flight paths, nesting spots and migration dates, keeping count of flying friends

## Rachel Lopez

To compile the

first state bird atlas, Kerala's volunteers

tracked avian species like the painted stork, black

headed ibis.

canary fly-catcher, Nil-

orange fly-catcher and

the purple swamphen

giri flycatcher, the black-and-

ith most maps, you look east, west, north and south. To use the Kerala Bird Atlas, you must look up as well. The digital carto graphs cover skies and treetops across Kerala, documenting 150 local and migratory birds. And unlike a guidebook, state-wide data is localised, seasonal and systematic. You can tell how many of a particular

species visited one valley and not the other ver the last summer.
The atlas is the first of its kind in Asia.

Released in September, it was put together by the Kerala Agricultural University in Thrissur and the non-profit database Bird Count India. It's a project five years in the making, done on a feather-light budget.

An informal network of more than a thousand citizen volunteers and birders was solicited via newspaper ads. They were then trained and assigned 1-sq-km grids across various habitats from which to collect on-ground data in the winter and monsoon

to best track major migration movements. "It's been a long, long journey," says PO Nameer, special officer at the university's Academy of Climate Change Education and Research. "But we have a priceless baseline for how birds are spread across the state, their varieties, abundance and locations."

That the atias was developed in Kerala is no surprise to bird enthusiasts. The coastal, hilly forested state is abundant in beautiful birds. But it also has a rich bird-watching history. In 1933, the ornithologist Salim Ali made an unscheduled stop at the flat forests of Thattekad, describing the sanctuary as the richest bird habitat in peninsular India. Bird surveys have been conducted since the 1990s, and birding tours are popular.

The idea for an atlas took flight for two reasons, Nameer says. "The state had an excellent network of researchers to accom-pany volunteers. And we had eBird." This online database, created by Cornell Univeromine database, created by Cornell Univer-sity's ornithology department and main-tained by volunteers worldwide, records real-time, location-based information on bird distribution and abundance. There's information from every region in India, and from collaborators across over 25 countries. It's an invaluable tool for researchers and naturalists conducting fieldwork. In Kerala, it helped volunteers collect and

collate vast swathes of data quickly. It also credited each volunteer who made a sighting or count. "This motivated them to com-plete the job, and develop a competitive

spirit between districts. I was happy to see birds and data, but seeing humans display such enthusiasm left me with great joy," Nameer says. One of those humans was Lathika Kathirur, a 53-year-old school teacher from Kannur who's been birdwatching for 25 years. Her grid covered forested land, making wet- and

dry-season fieldwork a pleasure.
"Birding is
hobby and son itats and how an endangered species is far-ing. And as Mysuru, Pune and Coimbatore keep updating their own atlases, all devel-oped with Bird Count India since 2014, it will be possible to compare and track flying

patterns in a way we haven't yet. Nameer and his team will be out with an analytical report in Jan-uary. Meanwhile, you can access the atlas

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for free on the India Bird Count site. Don't forget to look up.



