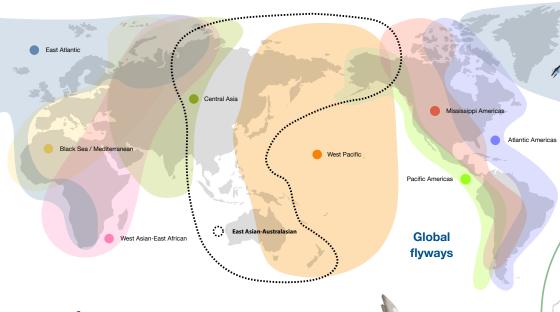
# **Understanding shorebird movements along the East Asian-Australasian Flyway**

Decades of leg-flag sightings and new geolocator data reveal how shorebird migration is changing and why it matters for wildlife and people along the East Asian-Australasian Flyway (EAAF)









## **Frequent flyers**

As frequent travellers who connect Australia to East Asia and Siberia, migratory shorebirds are among the prime suspects for spreading zoonotic diseases, like high pathogenicity avian influenza, across their range. Furthermore, shorebird populations in the EAAF have declined drastically, making them a significant conservation concern. Changes in migration timings and routes, potentially driven by climate and habitat change, can increase the difficulty of predicting risks to these threatened birds and potential disease incursion into Australia.

#### The dataset

This project integrates nearly 400 geolocator tracks with over half a million citizen science observations of individual shorebirds to

identify causes and consequences of changes in migration. These insights inform disease dynamics and forecast disease incursion risk under future global change scenarios.

## **Visualising migration**

Using the unique geolocator dataset and leg-flag observation database, this project is creating the most detailed picture yet of migration along the EAAF.

To further strengthen this work, new collaborations are sought across the Flyway through expanded geolocator studies, additional leg-flag observations, and avian influenza sampling along the EAAF. Such partnerships will improve capacity to forecast disease risk and support conservation of declining shorebird species.

geolocator tracks of Ruddy turnstones.



For collaboration leaders. Shorebird leg flag sightings can be reported at birdmark.net





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