Australia's coastal shorebirds: trends and prospects

BirdLife Australia National Shorebird Monitoring Program data have enabled population and conservation status assessments for key species. Determining why some species are doing better than others will be critical to prioritising conservation efforts for the next decade.

Coastal Australia is home to 37 regularly occurring migratory shorebird species, with many protected areas including Ramsar sites designated on the basis of shorebird populations. Many migratory shorebird species are declining rapidly, and these are the focus of conservation efforts at multiple levels of government in Australia and overseas.

A key question is whether all this conservation activity is starting to slow down the declines of the birds. With the last available migratory shorebird trend analyses dating back a decade, we thought it was time for an update. To ensure populations have the best chance of recovery and that resources are allocated where they are most likely to have the greatest positive impacts, it is critical to maintain up-to-date information on species trends.

This Marine and Coastal Hub project used 28 years of shorebird monitoring data collected by citizen science and indigenous groups from 448 important shorebird areas around Australia and curated by BirdLife Australia's National Shorebird Monitoring Program. Population trend was estimated for 14 species (see graphs on the next page). Four species were declining between 50% and 80% over their assessment period, consistent with listing as nationally Endangered. A further three were declining between 30% and 50%, warranting listing as Vulnerable (see table at right).



Project leader Richard Fuller of The University of Queensland presents the project results to the Meeting of Partners of the East Asian – Australasian Flyway Partnership. Twenty governments and 17 non-government organisations were represented.

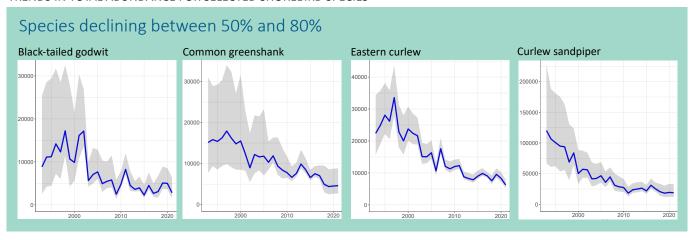
Encouragingly, the rate of decline for five species has slowed down in the past decade. Black-tailed godwit, curlew sandpiper, eastern curlew, grey plover and Nunivak bar-tailed godwit all declined less quickly in the most recent decade compared with the two decades prior to that. However, this effect was statistically significant only for the eastern curlew.

We stress that these slowdowns in shorebird declines do not equate to population recovery. However, trends must stop before they can reverse, and so this study presents the first evidence of multi-species improvements in the fortunes of our shorebirds. We urge a redoubling of conservation efforts in Australia and around the flyway to capitalise on this progress towards recovery.

ANNUAL GROWTH RATE, NUMBER OF YEARS AND TOTAL CHANGE IN POPULATION OVER ASSESSMENT PERIOD (THREE GENERATIONS)

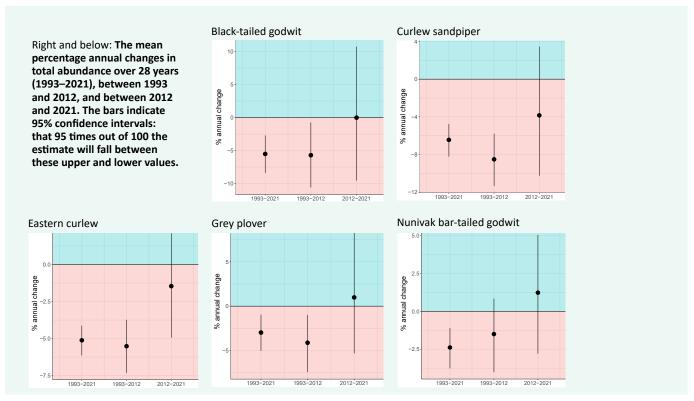
Shorebird species		Assessment period (years)	Change in population
Black-tailed godwit		23	-78%
Eastern curlew	consis	tent With	ered -64%
Common greenshank	nation	19	-60%
Curlew sandpiper		16	-53%
Nunivak bar-tailed God		25 with	-47%
Grey plover	consis	tent With 23 Vulner 19	ab1e _{-37%}
Great knot	nation	19	-32%
Ruddy turnstone		19	-26%
Terek sandpiper		14	-20%
Latham's snipe		10	-17%
Greater sand plover		17	-14%
Northern Siberian bar-tailed godwit		25	-6%
Red knot		21	+6%
Sharp-tailed sandpiper		15	+20%

TRENDS IN TOTAL ABUNDANCE FOR SELECTED SHOREBIRD SPECIES



Species declining between 30% and 50% Above: Four species were declining between 50% and 80% over their assessment period, consistent with listing as nationally Endangered. Right: Three species were declining between 30% and 50%, warranting listing as Vulnerable.

SPECIES SHOWING A SLOWING RATE OF DECLINE





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