Waders on the southern Mozambique coast

P. Nilsson & A. Shubin

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Thirty-one species of wader were recorded from 1985-1989 on the Maputo coast and on Inhaca and Portuguese Island, Mozambique. The greatest diversity of waders, 16-21 species, was recorded in November-February; the lowest diversity, 10-11 species, in May-July. On the south-western coast of Inhaca Island and on Portuguese Island about 1,000 waders of 14 species were counted in December. The most abundant were Grey Plover Pluvialis squatarola (428 birds), Greater Sandplover Charadrius leschenaultii (200), Sanderling Calidris alba (129), Crab Plover Dromas ardeola (55), Curlew Numenius arquata (48), and Kittlitz's Plover Charadrius pecuarius (40).

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С 1985 по 1989 г. на побережье Мапуто и на островах Инхака и Португальский, Мозамбик, был зарегистрирован 31 вид куликов. Самое большое разнообразие куликов, от 16 до 21 вида, было отмечено в период с ноября по февраль; самое низкое разнообразие, от 10 до 11 видов, - в мае-июле. На юго-западном берегу острова Инхака и на о. Португальский в декабре было учтено около тысячи куликов 14 видов. Самыми многочисленными были тулес Pluvialis squatarola (428 особей), тольстоклювый зуек Charadrius leschenaultii (200), песчанка Calidris alba (129), рачья ржанка Dromas ardeola (55), большой кроншнеп Numenius arquata (48), и малый морской зуек Charadrius pecuarius (40).

Introduction

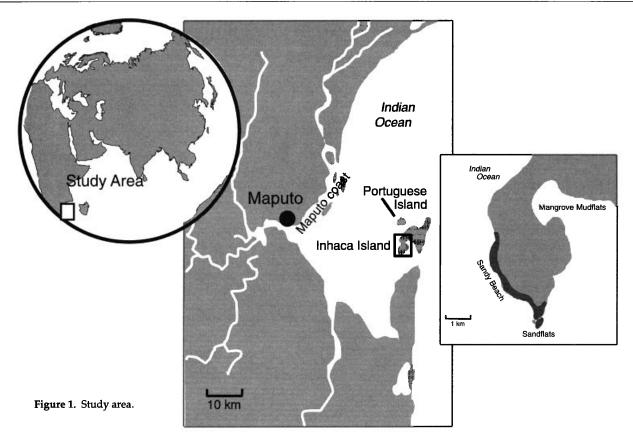
Special ornithological studies have not yet been conducted in Mozambique due to the rather complicated political situation there. Thus, even fragmentary data could be of interest. While working in this country in the educational sphere (P. Nilsson in 1985-1989, A. Shubin in 1987-1989) we had an opportunity to carry out some observations on birds, particularly on waders, which are presented in this paper.

Study area

Data were obtained mostly during week-end observations on the Maputo coast and in the area

immediately surrounding it (Figure 1), throughout the whole year. In addition, in May, June, August, November (P. Nilsson) and December (A. Shubin) short-term trips, usually not lasting longer than 10 days, were made to Inhaca and Portuguese Island. Here, observations were conducted mainly in the south-western part of Inhaca Island, in the area of the Marine Biological Research Station of Eduardo Mondlane University. In December 1989, several wader counts were carried out on the coasts in the vicinity of this station and along the whole coastline of Portuguese Island.

The main habitat used by waders in this area was uniform sandy beaches with sandflats and patches



of mudflats, with marine vegetation uncovered at low tide. On Inhaca and Portuguese Islands, coral remnants were also rather common on the intertidal area. Waders also fed on mudflats amongst the mangroves.

Results and Discussion

The list and status of waders

We recorded a total of 31 wader species (Tables 1 & 2). On the Maputo coast, the wader species list was approximately twice as large as on Inhaca and Portuguese Islands, although we should take into account the short-term nature of observations in the latter area. Among the waders recorded on the Islands, only three (Oystercatcher Haematopus ostralegus, Curlew Numenius arquata and Crab Plover Dromas ardeola) were not found near the Maputo coast. The most diverse wader fauna, with 16-21 species, was found in the period November to February; with the least diverse, 10-11 species, in the period May to July.

Eleven species were observed throughout the whole year: White-fronted Plover Charadrius marginatus, Kittlitz's Plover Charadrius pecuarius, Three-banded Plover Charadrius tricollaris, Grey Plover Pluvialis squatarola, Turnstone Arenaria interpres, Terek Sandpiper Xenus cinereus, Wood Sandpiper Tringa glareola, Greenshank Tringa nebularia, Curlew Sandpiper Calidris ferruginea, Sanderling Calidris alba and Whimbrel Numenius phaeopus.

Seven species were observed from Northern autumn to spring: African Jacana Actophilornis africana, Ringed Plover Charadrius hiaticula, Greater

Sandplover Charadrius leschenaultii, Common Sandpiper Actitis hypoleucos, Knot Calidris canutus, Black-winged Stilt Himantopus himantopus and Collared Pratincole Glareola pratincola.

Four species were observed from Northern winter to spring: Lesser Sandplover Charadrius mongolus, Marsh Sandpiper Tringa stagnatilis, Little Stint Calidris minuta, and Ruff Philomachus pugnax.

Chestnut-banded Sandplovers Charadrius pallidus were recorded irregularly in June, July and December. Six of the eight uncommon species were found in winter: Lesser Jacana Microparra capensis (February), Pacific Golden Plover Pluvialis fulva (February), Oystercatcher (December), Curlew (December), Crab Plover (December) and Water Dikkop Burhinus vermiculatus (January). Only two uncommon species were recorded in summer: Blacksmith Plover Vanellus armatus (June) and Bartailed Godwit Limosa lapponica (August).

Numbers of waders on Inhaca and Portuguese Island in December 1989

On Inhaca Island, both the most diverse wader fauna and the highest numbers were recorded on the sandflats during low tides (Table 3). On the sandy beaches and mangrove mudflats waders were not as numerous (Tables 4 & 5). A total of 13 wader species were observed in December 1989 on Inhaca Island, with a total of not less than 970 (on Table 3 total is 916) birds (the sum of the maximum estimate for each species). Only 22 birds of four wader species were recorded on Portuguese Island

Table 1. The list and status of wader species observed on the Maputo coast and surrounding area.

				1			ORDORA	nth		10.0			
English name	Scientific Name	J	F	M	A	M	J	J	A	S	0	N	D
African Jacana	Actophilornis africanus	+	-	+	+	-	-	-	-	+	+	+	+
Lesser Jacana	Microparra capensis	-	+	-	-	-	-	-	-	-	-	-	-
Ringed Plover	Charadrius hiaticula	+	+	+	+	-	-	-	-	-	+	-	+
White-fronted Plover	Charadrius marginatus	+	+	+	+	+	+	+	+	+	+	+	+
Chestnut-banded Plover	Charadrius pallidus	-	-	-	-	-	+	+	-	-	-	-	+
Kittlitz's Plover	Charadrius pecuarius	+	-	_	+	+	+	+	-	-	+	_	+
Three-banded Plover	Charadrius tricollaris	-	+	+	_	+	+	-	-	+	+	+	+
Mongolian Plover	Charadrius mongolus	+	+	-	-	-	_	-	-	-	_	_	+
Sand Plover	Charadrius leschenaultii	-	+	-	+	-	_	_	-	-	-	+	+
Pacific Golden Plover	Pluvialis fulva#	_	+	-	-	-	_	_	_	-	-	-	_
Grey Plover	Pluvialis squatarola	+	+	+	+	+	+	_	+	+	+	+	+
Blacksmith Plover	Vanellus armatus	-	-	-	_	-	+	_	-	_	_	_	_
Turnstone	Arenaria interpres	+	+	+	+	+	+	+	+	+	+	+	+
Terek Sandpiper	Xenus cinereus	+	+	+	+	+	+	_	+	+	+	+	+
Common Sandpiper	Actitis hypoleucos	+	+	+	_	-	-	+	+	+	+	+	+
Wood Sandpiper	Tringa glareola	+	+	+	+	_	_	+	-	+	+	+	_
Marsh Sandpiper	Tringa stagnatilis	-	+	-	-	-	-	_	_	_	_	+	_
Greenshank	Tringa nebularia	+	+	+	+	+	+	_	+	+	+	+	+
Knot	Calidris canutus	+	+	-	_	-	-	_	+	_	-	+	+
Curlew Sandpiper	Calidris ferruginea	+	+	+	+	+	_	-	+	+	+	+	+
Little Stint	Calidris minuta	+	-	-	+	-	_	_	_	-	_	_	_
Sanderling	Calidris alba	+	+	+	+	+	+	+	+	+	+	+	+
Ruff	Philomachus pugnax	+	+	+	_	_	_	_	_	_	-	-	_
Bar-tailed Godwit	Limosa lapponica	-	-	-	_	_	_	_	+	_	_	_	_
Whimbrel	Numenius phaeopus	+	+	+	+	+	+	+	+	+	+	+	+
Black-winged Stilt	Himantopus himantopus	+	+	+	_			+		_	+	_	_
Water Dikkop	Burhinus vermiculatus	+	-	_	_	_	_	_	_	-	_	_	-
Collared Pratincole	Glareola pratincola	_	+	_	_	_	_	+	+	+	_	+	_

Table 2. The list and status of wader species observed on Inhaca and Portuguese Island.

		Month											
English name	Scientific name	J	F	M	A	M	J	J	A	S	0	N	D
Oystercatcher	Haematopus ostralegus	_	900	_	_	200200	_	_	-	-	-		+
White-fronted Plover	Charadrius marginatus	-	-	-	-	+	+	-	+	_	-	+	_
Kittlitz's Plover	Charadrius pecuarius	_	-	-	-	+	-	-	-	-	-	-	+
Three-banded Plover	Charadrius tricollaris	-	-	-	-	+	_	-	-	-	-	-	-
Mongolian Plover	Charadrius mongolus	_	-	-	-	-	-	-	-	_	-	_	+
Sand Plover	Charadrius leschenaultii	-	-	_	-	_	-	-	-	_	_	_	+
Grey Plover	Pluvialis squatarola	-	-	_	_	_	+	-	+	_	_	+	+
Turnstone	Arenaria interpres	_	-	_	_	_	+	-	+	_	_	_	+
Terek Sandpiper	Xenus cinereus	-	-	_	-	-	_	_	_	_	_	-	+
Common Sandpiper	Actitis hypoleucos	_	-	_	_	_	_	-	_	_	_	_	+
Greenshank	Tringa nebularia	-	-	_	_	+	+	_	_	-	_	+	+
Curlew Sandpiper	Calidris ferruginea	_	-	-	_	_	_	_	_	_	_	_	+
Sanderling	Calidris alba	_	-	_	_	-	_	_	_	_	_	+	+
Curlew	Numenius arquata	-	-	_	_	_	_	_	_	_	-	-	+
Whimbrel	Numenius phaeopus	_	_	-	_	+	+	_	+	_	_	+	+
Crab Plover	Dromas ardeola	_	_	_	_	_	_	_	_	_	_	_	+

(Table 6); among them was Oystercatcher, which was not found anywhere else in the study areas. In total, not less than 992 birds of 14 wader species were present in the study area of both islands. We should mention, that according to personal

communication of Mr. Costa, the Director of Marine Biological Research Station, the numbers of waders that year were much lower than in the same seasons of other years.

Table 3. Numbers of waders during low tides on 1 ha of sandflats on Inhaca Island in December 1989.

Sanda		Dates of observa	ation		Maximum	
Species	5 Dec.	7 Dec.	8 Dec.	9 Dec.	number	
Kittlitzs Plover	28	40	>10	-	40	
Mongolian Plover	-	-	4	-	4	
Sand Plover	-	200	22	-	200	
Grey Plover	300	255	415	33	415	
Turnstone	1	16	13	14	16	
Terek Sandpiper	-	-	2	-	2	
Greenshank	-	-	2	-	2	
Curlew Sandpiper	-	-	1	-	1	
Sanderling	100	3	124	20	124	
Curlew	-	-	48	-	48	
Whimbrel	8	9	-	9	9	
Crab Plover	-	5	55	-	55	
Total no. birds	437	528	696	76	916	
Number of species	5	7	11	4	12	

Table 4. Numbers of waders during low tides on 2 km of sandy beach on Inhaca Island in December 1989.

		Da	tes of obse	ervations			Maximum
Species	2 Dec.	3 Dec.	6 Dec.	8 Dec.	9 Dec.	10 Dec.	number
Grey Plover	3	_	_	2	-	2	3
Common Sandpiper	2	1	-	-	_	-	2
Greenshank	4	3	-	1	2	1	4
Sanderling	-	-	-	5	-	2	5
Whimbrel	2	4	1	6	1	3	6
Tringa sp.	-	-	-	-	2	-	2
Total no. birds	11	8	1	14	5	8	22
Number of species	4	3	1	4	3	4	5

Table 5. Numbers of waders during low tide on 3 ha of mangrove mudflats at Inhaca Island on 3 December 1989.

Grey Plover 7
Terek Sandpiper 12
Whimbrel 13
Total no. birds 32
No. of species 3

Table 6. Wader numbers during low tide on all the sandy beaches (6 km) of Portuguese Island on 4 December 1989.

Oystercatcher	2
Grey Plover	3
Greenshank	8
Whimbrel	9
Total no. birds	22
No. of species	4

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