

MONITORING OF MIGRATORY SHORE BIRDS SURVEY IN NANTHAR ISLAND

Pyae Phyo Aung¹, Ren Naung Soe², Saw Thein Maung², Kyaw Thein Aung²

¹ Biodiversity And Nature Conservation Association (BANCA) Yangon, Myanmar

² Rakhine Biodiversity And Nature Conservation Association (RBANCA) Sittwe, Rakhine State

July 2017



Asian Waterbird
Conservation
Fund

Table of Contents

1. Executive Summary	2
2. Survey Method	2
3. Team member	2
4. Itinerary	2
5. Survey Results	3
6. Detailed survey trip 2016-2017	3
• Survey trip from 21 st to 25 th October 2016	3
• Survey trip from 21 th to 25 th of November 2016	3
• Survey trip from 17 th to the 21 st of December 2016	4
• Survey trip from 24 th to 28 th January 2017	4
• Survey trip from 4 th to 8 th February 2017	4
• Survey trip from 10 th to 14 th March 2017	5
• Survey trip from 6 th to 10 th April 2017	5
7. Threats to shore birds	5
Discussion	7
Recommendations	7
Table 1: Survey record of bird list from 21 st to 25 th October 2016	8
Table 2: Survey record of bird list from 21 th to 25 th of November 2016	10
Table 3: Survey record of bird list from 17 th to the 21 st of December 2016	12
Table 4: Survey record of bird list from 24 th to 28 th January 2017	15
Table 5: Survey record of bird list from 4 th to 8 th February 2017	17
Table 6: Survey record of bird list from 10 th to the 14 th March 2017	20
Table 7: Survey record of bird list from 6 th to 10 th April 2017	23
Annex 1: Map of shore bird survey in Nanthar Island 2016-2017	26
Annex 2: Nanthar Island location Map	27
References:	28

1. Executive Summary

Nanthar Island is located in western part of Myanmar Coastal area and close to Sittwe city in Rakhine State. The island is a small area of about (1100 ha) with sandy and mudflat habitats and lie at the mouth of Kalandan River in Myanmar. It is adjacent to Bangladesh border. There are five villages which are closed to Nanthar Island and few fishing community live on fishing around Nanthar Island area. The Nanthar island is one of the most wintering ground for migratory birds species which includes Spoon-billed Sandpiper(CR), Nordmann's Greenshank(EN), Painted Stork(NT), Indian Skimmer (VU), Great knot (EN) and about 5000 small waders wintering on this island. The island is also an important habitat for sea turtle nesting area for Olive Ridley (VU) and Leatherback (VU) and Green Turtle (EN). BANCA's local partner Rakhine Biodiversity And Nature Conservation Association (RBANCA) carried out the monitoring Spoon-billed Sandpiper survey in Nanthar October 2016-April 2017 supervised by BANCA.

2. Survey Method

Survey by boat and land based count from a designated location by GPS, or along a route, number of each shorebird species present and recording threats on shore birds. The surveyors separated out across the mudflat during the ebb and each group of bird scanned with telescope and the number of species recorded. Also estimate was made for the total number of population of species in each flock. Bird list record includes sighting as well as sound and used binoculars and telescopes.

3. Team member

RBANCA monthly survey team member

1	Ren Naung Soe	Team Leader
2	Kyaw Thein Aung	Field Assistant
3	Saw Thein Mg	Field Assistant

4. Itinerary

No	Date	Activity
1	21 st to 25 th October 2016	Survey in Nanthar Island
2	21 st to 25 th November 2016	Survey in Nanthar Island
3	17 th to 21 st December 2016	Survey in Nanthar Island
4	24 th to 28 th January 2017	Survey in Nanthar Island
5	4 th to 8 th February 2017	Survey in Nanthar Island
6	10 th to 14 th March 2017	Survey in Nanthar Island
7	6 th to 10 th April 2017	Survey in Nanthar Island

5. Survey Results

From October 2016 to April 2017 survey results (see Table 1 to 7) recorded 25 wader species, 4 wildfowl species, 7 Gull and Tern species including globally threatened species, 5 Near threatened species (Eurasian Curlew, Black-tailed Godwit, Red-necked Stint, Painted Stock and Black-headed Ibis), 1 Endangered Species (Great knot) and 1 Critically Endangered species Spoon-billed Sandpiper the maximum number 15 individuals were recorded.

6. Detailed survey trip 2016-2017

- **Survey trip from 21st to 25th October 2016**

RBANCA team, comprising of Ren Naung Soe, Kyaw Thein Aung and Saw Thein Mg surveyed from the 21st of October 2016 until the 25th. The team left Sittwe at 9am on the 21st, arriving at Ye Chan Byin jetty at approximately 9:30am. They then travelled by boat to Nanthar Island, arriving at 10:20am and beginning a thorough survey of the area. Due to regulations by the regional authority for safety, the team was unable to halt on the island and returned to Aung Daing village. They continued the survey routinely for the 5 days. Sand mining was recorded during this survey trip.

- **Survey trip from 21th to 25th of November 2016**

RBANCA team conducted surveys on Nanthar Island from 21th of November 2016 to 25th of November. The team left Sittwe at 10am and made their way by car to Yae Chan Byin jetty where they arrived at 10:40am. From there, the team took a boat to Aung Daing and Pa Lin Byin security police camp, arriving at 12pm. At 8:00am on the morning of 21st November, the team took a boat to Nanthar Island, arriving at 9:30 am and began surveys at 10am. During the survey, 4 Spoon-billed Sandpiper (SBS) were observed, two of which were flagged. One was flagged with number 27 on a light green flag and the other was a yellow flag with the letters 'CU' written. At 3:30pm on the same day, 5 SBS without rings were recorded. Surveying began the next day at 8:00am, recorded another 11 SBS. On 23rd November, surveying began again at 8:30am, where the team recorded 12 SBS and two Painted Storks. On 24th November, survey started at 8:30am where 14 SBS were recorded including 8 Asian Open-billed. The team surveyed on the last day began at 7:30am and 7 SBS without flag were recorded.



SBS with yellow flag (CU)

- **Survey trip from 17th to the 21st of December 2016**

RBANCA team conducted surveys for the SBS in Nanthar Island from the 17th to the 21st of December 2016. The team left Sittwe by taxi at 1pm on 16th of December to Aung Daing village, where team arrived at 2pm and received permission from the police to survey Nanthar Island. The team left Aung Daing Village the next morning at 11:00am, arrived at Nanthar Island at 12:00pm. Survey was conducted from 1:00pm until 5:00pm on 17th of December and 6 SBS were recorded. One of which had a light green flag with the number 27 on it, and another with a yellow flag with the letters CU on it were recorded. On the 18th of December, survey started at 8:00am, 9 SBS were recorded, out of which two were the same flagged birds as the previous day. During the survey, a dead sea turtle was also recorded, which was likely to be a Green Turtle. The cause of death for the sea turtle was presumed to be an illegal fishing net. The next day, survey started at 7:30am, during on that day and 15 SBS were recorded in the same location as the previous day. The two flagged individuals were recorded again and found fishing nets of size to 2m high and approximately 20m long. On the 20th of December, survey started at 7:00am, where 11 SBS were recorded, including two flagged individuals. Survey started 7:00am the next day and 8 SBS were recorded, again including the two flagged individuals. Surveys finished for the day and the team moved back to Sittwe.

- **Survey trip from 24th to 28th January 2017**

January surveys were conducted by RBANCA from the 24th until 28th 2017. On the 24th, the team left Sittwe at 2pm and travelled by car to Ye Chan Byin, arrived at 2:40pm. The team took a boat to Nanthar Island and arrived at 3:50pm. Survey was conducted at arrival and during the survey, 3 SBS were recorded. The team halted on the island and the next day survey started at 8:00am, during which 2 flagged SBS were recorded. One of the bird had a light green flag with the number 27 on, and the other had a yellow flag with the letters CU written. The team halted on the island. On January 26th, the team started survey at 8:30am and recorded 9 SBS including the two flagged individuals. On the 27th, surveying began at 8:30am and 12 SBS were recorded, including the two flagged individuals. Survey started on 28th at 8:00am and 5 SBS were recorded. The survey was completed and the team returned to Sittwe.

- **Survey trip from 4th to 8th February 2017**

In February 2017, the team surveyed from the 4th, until the 8th. On the first day, the team left Ye Chan Byin at 11:00am arriving Sittwe at 11:30am. From there, the team took the boat to Nanthar Island, arriving at 12:20pm. Survey started after lunch from 2:30pm until 5:30pm, and 5 SBS were recorded. Two of which were flagged, one with a yellow flag with the letters 'CU', and another with a light green flag and the number 27. The next day, on the 5th of February, survey started at 8:00am and finished at 5:30pm. In the survey 6 SBS were recorded, two of which were the flagged individuals from the day before. Survey started in next day at 8:00am and finished at 5:45 pm. During the survey, 9 SBS were recorded and two of which were the flagged individuals. On the 7th February, survey started at 8:00am and finished at 6:00pm. 12 SBS were recorded including the two flagged individuals. Surveying was carried out from 7:00am until 11:00am on the final day. During the survey, the team recorded 7 SBS before making their way back to Ye Chan Byin and Sittwe.

- **Survey trip from 10th to 14th March 2017**

During March 2017, the team surveyed from the 10th to the 14th. On the 10th, the team left Sittwe at 9:00am and proceeded to Ye Chan Byin, arriving at 9:30am. The team took a boat to Nanthar Island at 10:00am. Due to high winds and strong water current and the team arrived at Nanthar Island at 10:45am. On this day, survey started at 1:00pm and finished at 5:30pm, and recorded two SBS. The next day, survey continued at 7:00am and finished at 6:00pm with a two-hour break midday for lunch. 6 SBS were recorded, including two flagged individuals. One individual was flagged with a yellow colour with the letters 'CU' and the other with a light green colour and number 27 written. Survey started on the 12th at 7:15am until 12:00 pm, when the team stopped for a lunch break, surveyed again at 2:00pm until 6:00pm. On this day, 4 SBS were recorded. Next day, survey started from 7:00am until 6:00pm the next day during which, 8 SBS were recorded, two of which were the flagged individuals seen previously. The final day of sampling was conducted from 7:00am until 12:00pm, during which 4 SBS were recorded, including the yellow colour flag CU individual. The team left Nanthar Island at 12:30pm by boat, arriving at Ye Chan Byin at 1:15pm and moved back to Sittwe.

- **Survey trip from 6th to 10th April 2017**

The last time survey started in April 2017 from 6th until the 10th. The team left Sittwe at 7:00am on the 6th, arriving at Ye Chan Byin at 7:30am and proceeded to Nanthar Island and arrived at 9:00am. The team survey started from 10:00am until 6:20pm, and recorded only 2 SBS. On 7th April, survey started at 7:30am and finished at 6:00pm. During the survey 4 SBS were recorded, two of which were flagged, one with a yellow tag and the letters CU, and another with a light green tag and the number 27. On the next day, survey began at 7:00am and finished at 5:30pm, during which the team recorded 7 SBS. On 9th April, survey started at 7:00am and finished at 5:30pm and only 3 SBS were recorded. During the final day of survey, the team started at 7:00am and finished at 12:00am and recorded only 1 Spoon-billed Sandpiper.

7. Threats to shore birds

During the survey period, the team didn't record any bird hunting issues in Nanthar Island. However, Aung Daine village has bird hunters according to local information. RBANCA team often checked and recorded bird selling issues at the Sittwe market. Small scale sand mining is an important issues for mudflat ecosystem which is related to shore birds habitat.





Sand mining at Nanthar Island



Dead sea turtles

Discussion

Important habitat of migratory shore birds and Ramsar Site designation status

The intertidal mudflats are highly productive ecosystems, providing food, habitat for bio diversified species and regulation on the climate change. Over 3600 small waders population was recorded during the survey period of 2016-2017 in the Nanthar Island. Recorded globally threatened species like Spoon-billed Sandpiper population is 1.8% which makes fulfilment to meet one of flyways criteria of Ramsar.

Total small waders wintering population includes Spoon-billed Sandpiper numbers is slightly decreased compare to previous years data. In year 2015-2016, recorded average wintering Spoon-billed Sandpiper number is 18. In year 2016-2017, another species like Bar-headed Geese population numbers was recorded average 700 which is decreased half of wintering population in compare with the 2011 recorded. This year 2016-2017, not only Nanthar island but also other wintering areas in coastal, some wintering species population number are slightly decreased in compare with the previous years.

Recommendations

- At present, Nanthar Island is isolated and it does not fall under the management of State Government and Forest Department. However as the island has a lot of potential biodiversity values, it should be managed as a protected area.
- Nowadays Nanthar Island is listed as Importance Birds and Biodiversity Area Danger status (BirdLife International 2014) and Key Biodiversity Areas (KBA). But still lack in formal protection on site.
- The previous government handed the authority to Veteran Soldiers Organization (VSO) to manage Nanthar. The purpose is Nanthar Island is a critical place from military standpoint. But VSO doesn't have proper documents for ownership of the land. Forest Department of Rakhine State and RBANCA team already measured the boundary of Nanthar Island to promote as a Protected Area in 2016. Forest Department submitted the report to the State Government for the demarcation, but until now with no progress.
- Its essential to promote awareness raising and livelihoods development for communities surrounding the Nanthar Island for sustainable biodiversity conservation.
- Is an important habitat not only for shore birds but also sea turtles nesting area and should be protected with a legal status. So its suggested to organise the consultation meeting among the stakeholders to designate Nanthar either as a Protected Area or Ramsar Site immediately.



Table 1: Survey record of bird list from 21st to 25th October 2016

No.		Scientific Name	IUCN Status (2017) ver 3.1	21-10-2016	22-10-2016	23-10-2016	24-10-2016	25-10-2016
	Approximate center of survey - Latitude			20.24850	20.24782	20.24523	20.24655	20.41218
	Approximate center of survey - Longitude			92.74277	92.74248	92.74309	92.74197	92.74390
	Survey units			1	2	3	4	5
	Common Name							
1	Black-tailed Godwits	<i>Limosa limosa</i>	NT	20	30	15	35	22
2	Whimbrel	<i>Numenius phaeopus</i>	LC	15	10	13	18	11
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	50	60	45	52	44
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	2	3	5	2	4
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	30	22	28	30	24
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	5		2		
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	15	11	12	20	18
8	Common Redshank	<i>Tringa totanus</i>	LC	25	18	30	35	20
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC	2		1	2	
10	Common Greenshank	<i>Tringa nebularia</i>	LC	10	14	18	15	16
11	Little Stint	<i>Calidris minuta</i>	LC			5		
12	Red-necked Stint	<i>Calidris ruficollis</i>	NT	55	65	60	80	72
13	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	25	40	48	35	45
14	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	5	10	8	15	11
15	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	100	120	90	85	110
16	Lesser Sand-Plover	<i>Charadrius mongolus</i>	LC	40	60	55	30	46
17	Greater Sand-Plover	<i>Charadrius leschenaultii</i>	LC	10	5	2	6	7
18	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	15	6	4	8	6
19	Grey Plover	<i>Pluvialis squatarola</i>	LC	15	12	20	25	30
	Total Waders			439	486	461	493	486
1	Little Tern	<i>Sternula albifrons</i>	LC	5		8	10	5
2	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	4	5	6	7	5
3	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	4	9	9	6	5

No.		Scientific Name	IUCN Status (2017) ver 3.1	21-10-2016	22-10-2016	23-10-2016	24-10-2016	25-10-2016
	Approximate center of survey - Latitude			20.24850	20.24782	20.24523	20.24655	20.41218
	Approximate center of survey - Longitude			92.74277	92.74248	92.74309	92.74197	92.74390
	Survey units			1	2	3	4	5
	Common Name							
4	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	10	8	10	15	11
	Total Gull and Tern			23	22	33	38	26
1	Little Egret	<i>Egretta garzetta</i>	LC	30	25	15	20	22
2	Great Egret	<i>Ardea alba</i>	LC	15	11	8	9	10
3	Grey Heron	<i>Ardea cinerea</i>	LC	5	4	2	4	4
4	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	LC	40	22	20	25	18
5	Pond Heron spp		LC	2	2		2	2
6	Painted Stork	<i>Mycteria leucocephala</i>	NT	2	2	2	2	2
	Total other Waterbird			94	66	47	62	58
1	Common Kestrel	<i>Falco tinnunculus</i>	LC	2	2	1	1	2
2	Eastern Marsh-Harrier	<i>Circus spilonotus</i>	LC		1			
3	Pied Harrier	<i>Circus melanoleuco</i>	LC	2	2	1	1	1
	Total raptors			4	5	2	2	3
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	6	8	4	5	7
	Total wetland dependent species			6	8	4	5	7

CR = Critically Endangered, EN = Endangered, NT = Near Threatened, VU = Vulnerable, LC = Least Concern

Table 2: Survey record of bird list from 21th to 25th of November 2016

No		Scientific Name	IUCN Status (2017) ver 3.1	21-11-2016	22-11-2016	23-11-2016	24-11-2016	25-11-2016
	Approximate center of survey - Latitude			20.24618	20.24648	20.24691	20.24512	20.24489
	Approximate center of survey - Longitude			92.74197	92.74216	92.74224	92.74274	92.74333
	Survey units			1	2	3	4	5
	Common Name							
1	Black-tailed Godwits	<i>Limosa limosa</i>	NT	22	18	9	19	24
2	Whimbrel	<i>Numenius phaeopus</i>	LC	12	14	8	16	19
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	31	28	24	26	34
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	3	5	7	11	18
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	32	28	26	33	18
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	2	1	4	2	
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	12	6	11	16	13
8	Common Redshank	<i>Tringa totanus</i>	LC	22	24	17	10	25
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC	3	5	1	2	
10	Common Greenshank	<i>Tringa nebularia</i>	LC	15	11	19	20	9
11	Sanderling	<i>Calidris alba</i>	LC	20	18	10	8	9
12	Spoon-billed Sandpiper	<i>Calidris pygmeus</i>	CR	9	11	12	14	7
13	Little Stint	<i>Calidris minuta</i>	LC	6	12	18	22	9
14	Red-necked Stint	<i>Calidris ruficollis</i>	NT	72	75	68	79	44
15	Great Knot	<i>Calidris tenuirostris</i>	EN	10	23	16	27	11
16	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	33	38	36	40	28
17	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	11	21	28	35	17
18	Oriental Pratincole	<i>Glareola maldivarum</i>	LC	20	24	11	16	8
19	Small Pratincole	<i>Glareola lactea</i>	LC	24	26	22	10	15
20	Little Ringed Plover	<i>Charadrius dubius</i>	LC	5	7	4	10	8
21	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	121	110	147	136	98
22	Lesser Sand-Plover	<i>Charadrius mongolus</i>	LC	33	45	53	64	54
23	Greater Sand-Plover	<i>Charadrius leschenaultii</i>	LC	8	9	4	11	5
24	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	7	10	12	6	
25	Grey Plover	<i>Pluvialis squatarola</i>	LC	18	24	28	11	17
	Total Waders			551	593	595	644	490
1	Bar-headed Goose	<i>Anser indicus</i>	LC	22	34	45	42	36

No			IUCN Status (2017) ver 3.1	21-11-2016	22-11-2016	23-11-2016	24-11-2016	25-11-2016
	Approximate center of survey - Latitude	<i>Scientific Name</i>		20.24618	20.24648	20.24691	20.24512	20.24489
	Approximate center of survey - Longitude			92.74197	92.74216	92.74224	92.74274	92.74333
	Survey units			1	2	3	4	5
	Common Name							
2	Ruddy Shelduck			<i>Tadorna ferruginea</i>	LC	20	15	10
	Total Wildfowl			42	49	55	50	48
1	Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	14			12	18
2	Little Tern	<i>Sternula albifrons</i>	LC	6	3	4	8	11
3	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	5	10	13	8	6
4	Caspian Tern	<i>Hydroprogne caspia</i>	LC	1	1			
5	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	2	5			4
6	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	14	17	20	22	8
	Total Gull and Tern			28	36	37	38	29
1	Little Egret	<i>Egretta garzetta</i>	LC	44	47	38	33	34
2	Great Egret	<i>Ardea alba</i>	LC	25	26	22	28	34
3	Intermediate Egret	<i>Mesophoyx intermedia</i>	LC	1	3		6	
4	Grey Heron	<i>Ardea cinerea</i>	LC	2	2		4	
5	Eastern Cattle Egret	<i>Bubulcus coromandus</i>		15	16	8	12	20
6	Pond Heron spp		LC	4	6	5	2	1
7	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	LC					1
8	Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT	12	4		8	
9	Painted Stork	<i>Mycteria leucocephala</i>	NT			2		
10	Asian Openbill	<i>Anastomus oscitans</i>	LC				8	
	Total other Waterbird			103	104	75	101	90
1	Common Kestrel	<i>Falco tinnunculus</i>	LC			1		2
2	Peregrine Falcon	<i>Falco peregrinus</i>	LC				1	
3	Eastern Marsh-Harrier	<i>Circus spilonotus</i>	LC		1			
4	Pied Harrier	<i>Circus melanoleuco</i>	LC	2			1	1
	Total raptors			2	1	1	2	3
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	8			6	9
	Total wetland dependent			8	0	0	6	9

No		Scientific Name	IUCN Status (2017) ver 3.1	21-11-2016	22-11-2016	23-11-2016	24-11-2016	25-11-2016		
	Approximate center of survey - Latitude					20.24618	20.24648	20.24691	20.24512	20.24489
	Approximate center of survey - Longitude					92.74197	92.74216	92.74224	92.74274	92.74333
	Survey units					1	2	3	4	5
	Common Name									
	species									

Table 3: Survey record of bird list from 17th to the 21st of December 2016

No		Scientific Name	IUCN Status (2017) ver 3.1	17-12-2016	18-12-2016	19-12-2016	20-12-2016	21-12-2016		
	Approximate center of survey - Latitude					20.24660	20.24478	20.25022	20.25203	20.25367
	Approximate center of survey - Longitude					92.74187	92.74284	92.74137	92.74304	92.74415
	Survey units					1	2	3	4	5
	Common Name									
1	Black-tailed Godwits	<i>Limosa limosa</i>	NT	43	44	54	48	51		
2	Whimbrel	<i>Numenius phaeopus</i>	LC	20	26	18	23	15		
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	61	66	63	72	52		
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	10	11	8	12	13		
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	40	45	41	38	25		
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	4	1	5	2	2		
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	14	18	15	20	16		
8	Common Redshank	<i>Tringa totanus</i>	LC	36	33	26	22	46		
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC	2	2	1	5	1		
10	Common Greenshank	<i>Tringa nebularia</i>	LC	14	16	20	22	17		
11	Sanderling	<i>Calidris alba</i>	LC	34	31	15	18	25		
12	Spoon-billed Sandpiper	<i>Calidris pygmeus</i>	CR	6	9	15	11	8		
13	Little Stint	<i>Calidris minuta</i>	LC	15	20	22	26	11		
14	Red-necked Stint	<i>Calidris ruficollis</i>	NT	75	77	55	62	58		
15	Great Knot	<i>Calidris tenuirostris</i>	EN	20	25	28	22	26		
16	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	35	26	31	34	17		
17	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	9	15	28	46	12		

No		Scientific Name	IUCN Status (2017) ver 3.1	17-12-2016	18-12-2016	19-12-2016	20-12-2016	21-12-2016
	Approximate center of survey - Latitude			20.24660	20.24478	20.25022	20.25203	20.25367
	Approximate center of survey - Longitude			92.74187	92.74284	92.74137	92.74304	92.74415
	Survey units			1	2	3	4	5
	Common Name							
18	Oriental Pratincole	<i>Glareola maldivarum</i>	LC	14	16	11	18	15
19	Small Pratincole	<i>Glareola lactea</i>	LC	37	20	26	34	30
20	Little Ringed Plover	<i>Charadrius dubius</i>	LC	10	12	12	15	9
21	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	150	167	185	145	130
22	Lesser Sand-Plover	<i>Charadrius mongolus</i>	LC	25	36	47	52	38
23	Greater Sand-Plover	<i>Charadrius leschenaultii</i>	LC	5	12	14	17	8
24	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	15	8	6	12	4
25	Grey Plover	<i>Pluvialis squatarola</i>	LC	24	26	18	29	21
	Total Waders			718	762	764	805	650
1	Bar-headed Goose	<i>Anser indicus</i>	LC	120	125	146	205	137
2	Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC	54	36	47	55	53
3	Eurasian Wigeon	<i>Anas penelope</i>	LC	10	15	8	9	
4	Northern Pintail	<i>Anas acuta</i>	LC	80	95	84	96	83
	Total Wildfowl			264	271	285	365	273
1	Pallas's Gull	<i>Larus ichthyaetus</i>	LC		4		5	
2	Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	20				15
3	Little Tern	<i>Sternula albifrons</i>	LC	9	11	13	10	5
4	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	3	7		12	15
5	Caspian Tern	<i>Hydroprogne caspia</i>	LC		1			
6	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	5	7			8
7	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	15	8	16	19	22
	Total Gull and Tern		LC	52	38	29	46	65
1	Little Egret	<i>Egretta garzetta</i>	LC	34	25	27	22	45
2	Great Egret	<i>Ardea alba</i>	LC	26	30	36	33	27
3	Intermediate Egret	<i>Mesophoyx intermedia</i>	NT	2			1	
4	Grey Heron	<i>Ardea cinerea</i>	NT	4	4	2	6	2

No		Scientific Name	IUCN Status (2017) ver 3.1	17-12-2016	18-12-2016	19-12-2016	20-12-2016	21-12-2016		
	Approximate center of survey - Latitude					20.24660	20.24478	20.25022	20.25203	20.25367
	Approximate center of survey - Longitude					92.74187	92.74284	92.74137	92.74304	92.74415
	Survey units					1	2	3	4	5
	Common Name									
5	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	LC	22	8	2	16	25		
6	Pond Heron spp		LC	15	5	1		11		
7	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	LC					1		
8	Black-headed Ibis	<i>Threskiornis melanocephalus</i>	LC	4	12	14	11	18		
9	Painted Stork	<i>Mycteria leucocephala</i>	NT	2						
	Total other Waterbird		NT	109	84	82	89	129		
1	Common Kestrel	<i>Falco tinnunculus</i>	LC	2						
2	Peregrine Falcon	<i>Falco peregrinus</i>	LC	1						
	Total raptors			3						
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	6				15		
	Total wetland dependent species			6	0	0	0	15		

Table 4: Survey record of bird list from 24th to 28th January 2017

No			IUCN Status (2017) ver 3.1	24-1-2017	25-1-2017	26-1-2017	27-1-2017	28-1-2017
	Approximate center of survey - Latitude	<i>Scientific Name</i>		20.24589	20.24730	20.24818	20.24889	20.25
	Approximate center of survey - Longitude			92.74418	92.56170	92.74242	92.74270	92.7422
	Survey units			1	2	3	4	5
	Common Name							
1	Black-tailed Godwits			<i>Limosa limosa</i>	NT	25	22	32
2	Whimbrel	<i>Numenius phaeopus</i>	LC	20	13	11	8	12
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	40	45	56	67	29
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	1	6	12	4	4
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	25	22	36	38	21
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	5	1	2	2	4
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	15	19	11	17	9
8	Common Redshank	<i>Tringa totanus</i>	LC	40	45	57	68	16
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC	1			2	
10	Common Greenshank	<i>Tringa nebularia</i>	LC	35	23	36	38	12
11	Sanderling	<i>Calidris alba</i>	LC	25	16		22	
12	Spoon-billed Sandpiper	<i>Calidris pygmeus</i>	CR	3	2	9	12	5
13	Little Stint	<i>Calidris minuta</i>	LC	16	15	21	14	5
14	Red-necked Stint	<i>Calidris ruficollis</i>	NT	120	126	136	164	36
15	Great Knot	<i>Calidris tenuirostris</i>	EN	72	75	83	84	14
16	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	42	23	48	38	14
17	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	43	46	37	28	11
18	Oriental Pratincole	<i>Glareola maldivarum</i>	LC	18	25	27	24	
19	Small Pratincole	<i>Glareola lactea</i>	LC	30	34	21	18	35
20	Little Ringed Plover	<i>Charadrius dubius</i>	LC	12	13	10	11	5
21	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	80	150	125	138	50
22	Lesser Sand-Plover	<i>Charadrius mongolus</i>	LC	25	36	47	54	30
23	Greater Sand-Plover	<i>Charadrius leschenaultii</i>	LC	3	7	16	12	2
24	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	3	6	7	8	
25	Grey Plover	<i>Pluvialis squatarola</i>	LC	25	26	17	34	13
	Total Waders			724	796	857	929	336

No				24-1-2017	25-1-2017	26-1-2017	27-1-2017	28-1-2017
	Approximate center of survey - Latitude	<i>Scientific Name</i>	IUCN Status (2017) ver 3.1	20.24589	20.24730	20.24818	20.24889	20.25
	Approximate center of survey - Longitude			92.74418	92.56170	92.74242	92.74270	92.7422
	Survey units			1	2	3	4	5
	Common Name							
1	Bar-headed Goose			<i>Anser indicus</i>	LC	150	156	134
2	Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC	16	22	12	17	21
3	Eurasian Wigeon	<i>Anas penelope</i>	LC	11	10	14	12	5
4	Northern Pintail	<i>Anas acuta</i>	LC	80	120	150	137	80
	Total Wildfowl			257	308	310	276	204
1	Pallas's Gull	<i>Larus ichthyaetus</i>	LC		5	4	8	
2	Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	21	24	32	54	32
3	Little Tern	<i>Sternula albifrons</i>	LC	8	15	12	16	18
4	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	4	6	6	3	12
5	Caspian Tern	<i>Hydroprogne caspia</i>	LC		1	1	2	
6	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	2	5			4
7	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	21	23	5	2	14
	Total Gull and Tern			56	79	60	85	80
1	Little Egret	<i>Egretta garzetta</i>	LC	45	44	47	43	41
2	Great Egret	<i>Ardea alba</i>	LC	22	22	18	24	5
3	Intermediate Egret	<i>Mesophoyx intermedia</i>	LC	1	2	1	4	
4	Grey Heron	<i>Ardea cinerea</i>	LC	2	2		1	
5	Eastern Cattle Egret	<i>Bubulcus coromandus</i>		21	13	6	18	24
6	Pond Heron spp		LC	2	1	4	5	2
7	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	LC					1
8	Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT	5	4	8	26	5
9	Painted Stork	<i>Mycteria leucocephala</i>	NT		2			
	Total other Waterbird			98	90	84	121	78
1	Common Kestrel	<i>Falco tinnunculus</i>	LC		2			
2	Peregrine Falcon	<i>Falco peregrinus</i>	LC			1		
3	Eastern Marsh-Harrier	<i>Circus spilonotus</i>	LC	2				

No				24-1-2017	25-1-2017	26-1-2017	27-1-2017	28-1-2017
	Approximate center of survey - Latitude	Scientific Name	IUCN Status (2017) ver 3.1	20.24589	20.24730	20.24818	20.24889	20.25
	Approximate center of survey - Longitude			92.74418	92.56170	92.74242	92.74270	92.7422
	Survey units			1	2	3	4	5
	Common Name							
4	Pied Harrier			<i>Circus melanoleuco</i>	LC	1		
	Total raptors			3	2	1	0	0
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	6				5
	Total wetland dependent species			6	0	0	0	5

Table 5: Survey record of bird list from 4th to 8th February 2017

No	Date		IUCN Status (2017) ver 3.1	4-Feb-17	5-Feb-17	6-Feb-17	7-Feb-17	8-Feb-17
	Approximate center of survey - Latitude	Scientific Name	IUCN Status (2017) ver 3.1	20.25022	20.24444	20.24523	20.24551	20.24820
	Approximate center of survey - Longitude			92.74137	92.74541	92.74309	92.74390	92.74351
	Survey units			1	2	3	4	5
	Common Name							
1	Black-tailed Godwits			<i>Limosa limosa</i>	NT	36	33	21
2	Whimbrel	<i>Numenius phaeopus</i>	LC	10	15	18	5	4
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	70	46	56	72	38
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	12	9	7	12	18
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	32	46	38	27	22
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	2	2	6	4	8
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	20	16	12	18	9
8	Common Redshank	<i>Tringa totanus</i>	LC	44	46	42	40	36
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC	1	1			1

No	Date	Scientific Name	IUCN Status (2017) ver 3.1	4-Feb-17	5-Feb-17	6-Feb-17	7-Feb-17	8-Feb-17
	Approximate center of survey - Latitude			20.25022	20.24444	20.24523	20.24551	20.24820
	Approximate center of survey - Longitude			92.74137	92.74541	92.74309	92.74390	92.74351
	Survey units			1	2	3	4	5
	Common Name							
10	Common Greenshank	<i>Tringa nebularia</i>	LC	20	12	16	18	22
11	Sanderling	<i>Calidris alba</i>	LC	21	28	11	15	
12	Spoon-billed Sandpiper	<i>Calidris pygmeus</i>	CR	5	6	9	12	7
13	Little Stint	<i>Calidris minuta</i>	LC	22	21	18	25	27
14	Red-necked Stint	<i>Calidris ruficollis</i>	NT	67	73	84	85	38
15	Great Knot	<i>Calidris tenuirostris</i>	EN	50	58	79	90	55
16	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	46	40	36	48	33
17	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	12	18	26	27	11
18	Oriental Pratincole	<i>Glareola maldivarum</i>	LC	9	17		12	21
19	Small Pratincole	<i>Glareola lactea</i>	LC	21	39	31	22	
20	Little Ringed Plover	<i>Charadrius dubius</i>	LC	5	7	14	2	4
21	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	200	165	190	206	120
22	Lesser Sand-Plover	<i>Charadrius mongolus</i>	LC	27	38	29	42	36
23	Greater Sand-Plover	<i>Charadrius leschenaultii</i>	LC	16	9	18	22	7
24	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	7	9	4	5	
25	Grey Plover	<i>Pluvialis squatarola</i>	LC	18	26	11	16	6
	Total Waders			773	780	776	843	551
1	Bar-headed Goose	<i>Anser indicus</i>	LC	150	126	144	138	147
2	Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC	60	55	54	39	38
3	Eurasian Wigeon	<i>Anas penelope</i>	LC	7	14	11	15	18
4	Northern Pintail	<i>Anas acuta</i>	LC	90	120	103	94	120
	Total Wildfowl			307	315	312	286	323
1	Pallas's Gull	<i>Larus ichthyaetus</i>	LC			4		
2	Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	21		120		

No	Date	Scientific Name	IUCN Status (2017) ver 3.1	4-Feb-17	5-Feb-17	6-Feb-17	7-Feb-17	8-Feb-17
	Approximate center of survey - Latitude			20.25022	20.24444	20.24523	20.24551	20.24820
	Approximate center of survey - Longitude			92.74137	92.74541	92.74309	92.74390	92.74351
	Survey units			1	2	3	4	5
	Common Name							
3	Little Tern	<i>Sternula albifrons</i>	LC	10	15	17		18
4	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	2	9	9		15
5	Caspian Tern	<i>Hydroprogne caspia</i>	LC	1				
6	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	4	2			
7	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	22			12	23
	Total Gull and Tern			60	26	150	12	56
1	Little Egret	<i>Egretta garzetta</i>	LC	33	31	38	42	12
2	Great Egret	<i>Ardea alba</i>	LC	22	15	34	36	32
3	Intermediate Egret	<i>Mesophoyx intermedia</i>	LC		4		1	
4	Grey Heron	<i>Ardea cinerea</i>	LC	2	5	1	3	6
5	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	LC	21	22	11	15	25
6	Pond Heron spp		LC	3	2	2	7	13
7	Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT	24	26		13	22
	Total other Waterbird			105	105	86	117	110
1	Common Kestrel	<i>Falco tinnunculus</i>	LC	3				
2	Peregrine Falcon	<i>Falco peregrinus</i>	LC				1	
3	Eastern Marsh-Harrier	<i>Circus spilonotus</i>	LC					2
	Total raptors			3	0	0	1	2
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	8				2
	Total wetland dependent species			8	0	0	0	2

Table 6: Survey record of bird list from 10th to the 14th March 2017

No			IUCN Status (2017) ver 3.1	10-Mar-17	11-Mar-17	12-Mar-17	13-Mar-17	14-Mar-17
	Approximate center of survey - Latitude	Scientific Name		20.24690	20.24667	20.24699	20.24698	20.24656
	Approximate center of survey - Longitude			92.74197	92.74163	92.74113	92.74086	92.74070
	Survey units			1	2	3	4	5
	Common Name							
1	Black-tailed Godwits	<i>Limosa limosa</i>	NT	12	2	4	3	8
2	Whimbrel	<i>Numenius phaeopus</i>	LC	12	2	14	4	9
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	21	15	24	18	7
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	2	2	4	1	5
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	14	10	21	28	26
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	4	1	2	2	6
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	12	5	6	2	8
8	Common Redshank	<i>Tringa totanus</i>	LC	38	23	22	25	19
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC		1			
10	Common Greenshank	<i>Tringa nebularia</i>	LC	11	5	9	14	15
11	Sanderling	<i>Calidris alba</i>	LC	5	6	11	12	
12	Spoon-billed Sandpiper	<i>Calidris pygmeus</i>	CR	2	6	4	8	4
13	Little Stint	<i>Calidris minuta</i>	LC	25	32	27	26	16
14	Red-necked Stint	<i>Calidris ruficollis</i>	NT	54	55	43	64	35
15	Great Knot	<i>Calidris tenuirostris</i>	EN	11	16	34	26	
16	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	10	8	9	2	15
17	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	8	13	17	5	2
18	Oriental Pratincole	<i>Glareola maldivarum</i>	LC		23			22
19	Small Pratincole	<i>Glareola lactea</i>	LC	35	36	28	21	20
20	Little Ringed Plover	<i>Charadrius dubius</i>	LC	2	2	5	8	11
21	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	67	82	89	90	56
22	Lesser Sand Plover	<i>Charadrius mongolus</i>	LC	15	11	9	23	27

No		Scientific Name	IUCN Status (2017) ver 3.1	10-Mar-17	11-Mar-17	12-Mar-17	13-Mar-17	14-Mar-17
	Approximate center of survey - Latitude			20.24690	20.24667	20.24699	20.24698	20.24656
	Approximate center of survey - Longitude			92.74197	92.74163	92.74113	92.74086	92.74070
	Survey units			1	2	3	4	5
	Common Name							
23	Greater Sand Plover	<i>Charadrius leschenaultii</i>	LC	4	7	9	2	1
24	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	2	7	3	18	24
25	Grey Plover	<i>Pluvialis squatarola</i>	LC	16	18	12	6	2
	Total Waders			382	388	406	408	338
1	Bar-headed Goose	<i>Anser indicus</i>	LC	98	93	120	123	82
2	Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC	54	67	45	46	65
	Total Wildfowl			152	160	165	169	147
1	Pallas's Gull	<i>Larus ichthyaetus</i>	LC				7	
2	Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	11			110	
3	Little Tern	<i>Sternula albifrons</i>	LC	12				15
4	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	1			2	
5	Caspian Tern	<i>Hydroprogne caspia</i>	LC				1	1
6	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	1				
7	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	4		7		5
	Total Gull and Tern			29	0	7	120	21
1	Little Egret	<i>Egretta garzetta</i>	LC	46	23	21	34	32
2	Great Egret	<i>Ardea alba</i>	LC	21	12	15	4	16
3	Intermediate Egret	<i>Mesophoyx intermedia</i>	LC		2		2	
4	Grey Heron	<i>Ardea cinerea</i>	LC					2
5	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	LC	24	21	28	29	24
6	Pond Heron spp		LC	2				1
7	Black-headed Ibis	<i>Threskiornis</i>	NT	22	21			25

No		Scientific Name	IUCN Status (2017) ver 3.1	10-Mar-17	11-Mar-17	12-Mar-17	13-Mar-17	14-Mar-17		
	Approximate center of survey - Latitude					20.24690	20.24667	20.24699	20.24698	20.24656
	Approximate center of survey - Longitude					92.74197	92.74163	92.74113	92.74086	92.74070
	Survey units					1	2	3	4	5
	Common Name									
		<i>melanocephalus</i>								
	Total other Waterbird			115	79	64	69	100		
1	Common Kestrel	<i>Falco tinnunculus</i>	LC			1				
2	Peregrine Falcon	<i>Falco peregrinus</i>	LC				1			
3	Eastern Marsh-Harrier	<i>Circus spilonotus</i>	LC					1		
	Total raptors					1	1	1		
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	2			4	8		
	Total wetland dependent species			2	0	0	4	8		

Table 7: Survey record of bird list from 6th to 10th April 2017

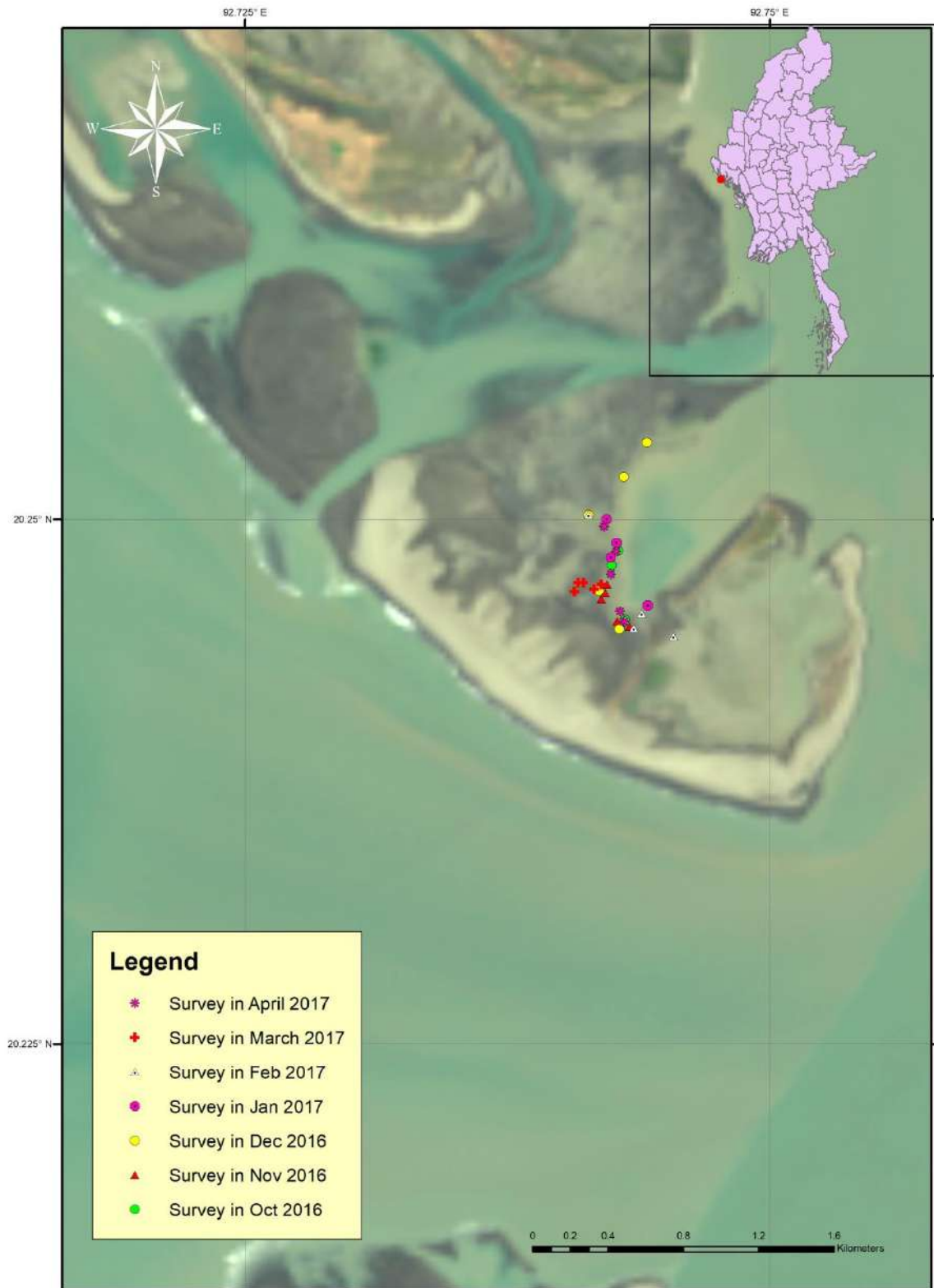
No				6-Apr-17	7-Apr-17	8-Apr-17	9-Apr-17	10-Apr-17
	Approximate center of survey - Latitude	Scientific Name	IUCN Status (2017) ver 3.1	20.24967	20.24846	20.24739	20.24563	20.24514
	Approximate center of survey - Longitude			92.74210	92.74268	92.74242	92.74286	92.74305
	Survey units			1	2	3	4	5
	Common Name							
1	Black-tailed Godwits	<i>Limosa limosa</i>	NT	14	10	5	7	4
2	Whimbrel	<i>Numenius phaeopus</i>	LC	5	6	12	15	18
3	Eurasian Curlew	<i>Numenius arquata</i>	NT	34	45	55	67	53
4	Wood Sandpiper	<i>Tringa glareola</i>	LC	1	3	5		8
5	Terek Sandpiper	<i>Xenus cinereus</i>	LC	23	32	12	24	18
6	Common Sandpiper	<i>Actitis hypoleucos</i>	LC	1				4
7	Ruddy Turnstone	<i>Arenaria interpres</i>	LC	14	15	9	11	4
8	Common Redshank	<i>Tringa totanus</i>	LC	17	26	29	36	28
9	Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC					
10	Common Greenshank	<i>Tringa nebularia</i>	LC	11	6	9	12	4
11	Sanderling	<i>Calidris alba</i>	LC	3	6		12	
12	Spoon-billed Sandpiper	<i>Calidris pygmeus</i>	CR	2	4	7	3	1
13	Little Stint	<i>Calidris minuta</i>	LC	22	25	25	34	39
14	Red-necked Stint	<i>Calidris ruficollis</i>	NT	55	65	67	76	45
15	Great Knot	<i>Calidris tenuirostris</i>	EN	8	12	15	8	12
16	Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	7	14	17	8	4
17	Broad-billed Sandpiper	<i>Limicola falcinellus</i>	LC	2	5	17	15	12
18	Oriental Pratincole	<i>Glareola maldivarum</i>	LC	8	17	23		26
19	Small Pratincole	<i>Glareola lactea</i>	LC	14	23	33	24	12

No				6-Apr-17	7-Apr-17	8-Apr-17	9-Apr-17	10-Apr-17
	Approximate center of survey - Latitude	Scientific Name	IUCN Status (2017) ver 3.1	20.24967	20.24846	20.24739	20.24563	20.24514
	Approximate center of survey - Longitude			92.74210	92.74268	92.74242	92.74286	92.74305
	Survey units			1	2	3	4	5
	Common Name							
20	Little Ringed Plover			<i>Charadrius dubius</i>	LC	7	8	16
21	Kentish Plover	<i>Charadrius alexandrinus</i>	LC	120	123	112	96	116
22	Lesser Sand Plover	<i>Charadrius mongolus</i>	LC	34	35	21	43	11
23	Greater Sand Plover	<i>Charadrius leschenaultii</i>	LC	5	7	12	17	3
24	Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	2		6		10
25	Grey Plover	<i>Pluvialis squatarola</i>	LC	12	16	11	8	18
	Total Waders			421	503	518	516	455
1	Bar-headed Goose	<i>Anser indicus</i>	LC	45	65	60	55	78
2	Eurasian Wigeon	<i>Anas penelope</i>	LC	7	14	11	15	18
3	Northern Pintail	<i>Anas acuta</i>	LC	90	120	103	94	120
	Total Wildfowl			142	199	174	164	216
1	Pallas's Gull	<i>Larus ichthyaetus</i>	LC				4	
2	Brown-headed Gull	<i>Chroicocephalus brunnicephalus</i>	LC	44			87	
3	Little Tern	<i>Sternula albifrons</i>	LC	15	10	8		22
4	Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	1		4		7
5	Caspian Tern	<i>Hydroprogne caspia</i>	LC	1				1
6	White-winged Tern	<i>Chlidonias leucopterus</i>	LC	1				
7	Whiskered Tern	<i>Chlidonias hybrida</i>	LC	4		8	1	5
	Total Gull and Tern			66	10	20	92	35

No				6-Apr-17	7-Apr-17	8-Apr-17	9-Apr-17	10-Apr-17
	Approximate center of survey - Latitude	Scientific Name	IUCN Status (2017) ver 3.1	20.24967	20.24846	20.24739	20.24563	20.24514
	Approximate center of survey - Longitude			92.74210	92.74268	92.74242	92.74286	92.74305
	Survey units			1	2	3	4	5
	Common Name							
1	Little Egret			<i>Egretta garzetta</i>	LC	21	27	26
2	Great Egret	<i>Ardea alba</i>	LC	23	11	17	8	28
3	Eastern Cattle Egret	<i>Bubulcus coromandus</i>	LC	34	12	6	8	36
4	Pond Heron spp		LC			2	3	8
5	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	LC					
6	Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT	28	26			18
	Total other Waterbird			106	76	51	36	114
1	Common Kestrel	<i>Falco tinnunculus</i>	LC	2				
	Total raptors			2				
1	Little Cormorant	<i>Phalacrocorax niger</i>	LC	2				6
	Total wetland dependent species			2	0	0	0	6

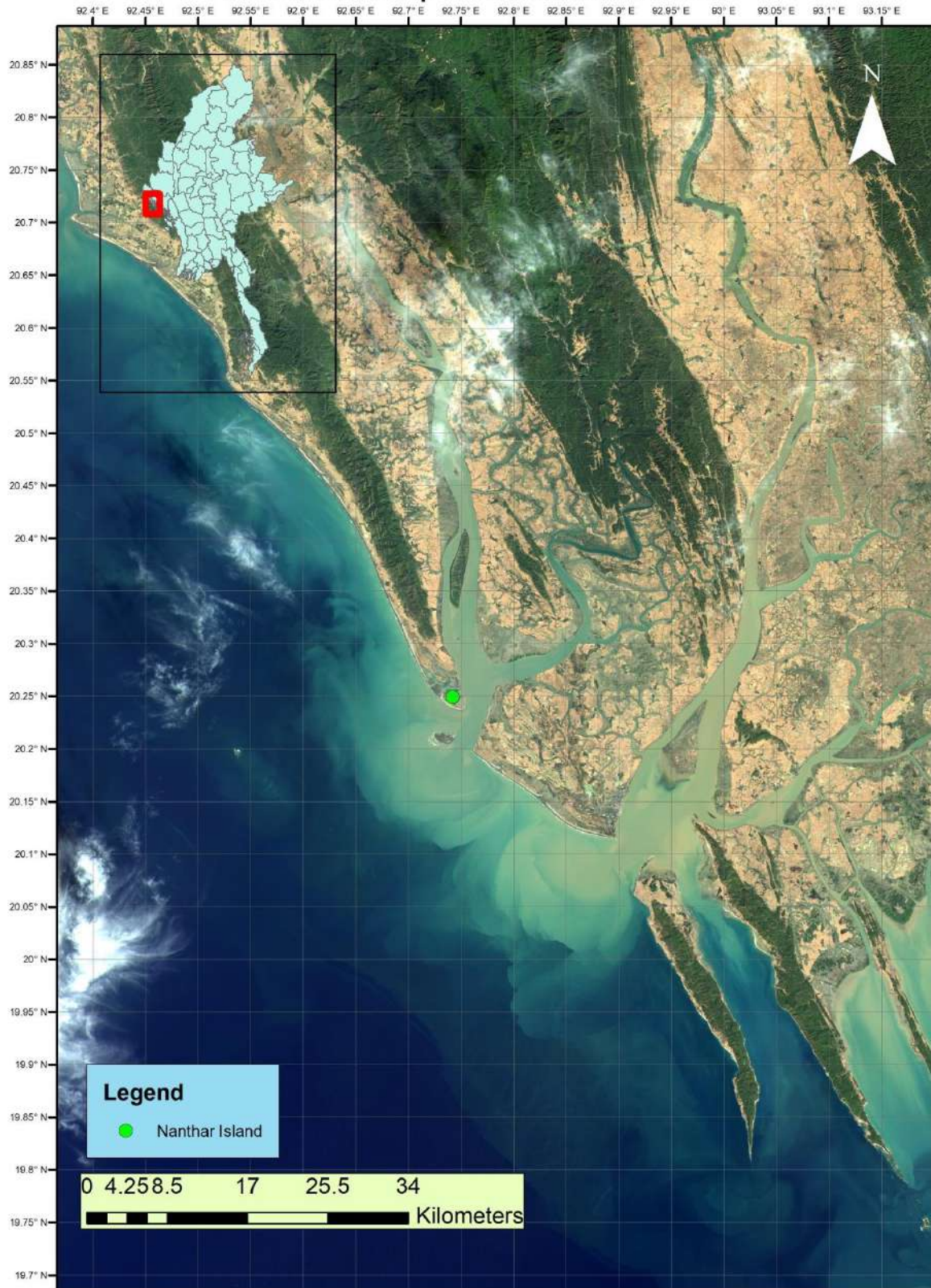
Annex 1: Map of shore bird survey in Nanthar Island 2016-2017

Map of shore bird survey in Nanthar Island 2016-2017



Annex 2: Nanthar Island location Map

Location Map of Nanthar Island



References:

1. Robson, C. 2011. New Holland field guide to the birds of South-east Asia. New Holland Publisher, London, 544 pp.
2. Bird watching training and survey of Critically Endangered Spoon-billed Sandpiper 2013-2014 BANCA unpublished report.
3. Pyae Phyo Aung et al. (2015). Monitoring Programme for the Critically Endangered Spoon-billed Sandpiper in its most important wintering grounds in Myanmar. unpublished report for BANCA
4. Pyae Phyo Aung et al. (2016). Monitoring Programme for the Critically Endangered Spoon-billed Sandpiper in its most important wintering grounds in Myanmar. unpublished report for BANCA
5. www.iucnredlist.org
6. Zöckler, C, Htin Hla, T, Clark, N, Syroechkovskiy, E, Yakushev, N, Daengphayon, S and Robinson, R (2010). Hunting in Myanmar is probably the main cause of the decline of the Spoon-billed Sandpiper *Calidris pygmaeus*. Wader Study Group Bulletin 117(1): 1-8
7. Zöckler, C., T. Zaw Naing, S. Moses, R. Nou Soe & T. Htin Hla (2014): The importance of the Myanmar Coast for Water Birds. *Stilt* 66: 37-51.
8. Zöckler, C, et al (2016). The Wintering Distribution of the Spoon-billed Sandpiper . The winter distribution of the Spoon-billed Sandpiper *Calidris pygmaeus*. *Bird Conservation International*, Available on CJO 2016 doi:10.1017/S0959270915000295