

**COUNTRY REPORT FOR CENTRAL ASIAN  
FLYWAY OVERVIEW:  
BANGLADESH**

May, 2005

Ministry of Environment and Forests  
Government of the Peoples' Republic of Bangladesh

## Country Report for Central Asian Flyway Overview

### A. Brief Introduction

Bangladesh is occupying a unique geographical location in the South Asia. Virtually, the delta is the only drainage outlet for a vast complex river basin made up of the Ganges, Brahmaputra and Meghna River and their network of tributaries. There are three broad physiographic regions in the country. The floodplains occupy about 80 percent; terrace about 8 percent and hills about 12 percent of the land area. So it is evident that with 80 percent floodplain, Bangladesh is a land of water and wetlands. According to the definition enunciated in the Ramsar Convention, more than two-thirds of the country's landmass may be classified as wetlands. It is a country dominated by wetland encompassing a wide variety of dynamic ecosystems such as that is estuaries, mangroves namely the Sundarbans, freshwater marshes such as *haor*<sup>1</sup>, swamps and rivers.

The wetlands are the important habitat of migratory waterbird population. There are about 628 bird species in Bangladesh, out of which 244 are Migratory. The wetlands are the abode of about 70 species of resident waterbirds including ducks, grebe, cormorants, bitterns, herons, egrets, storks, rails, jacanas, finfoot, waders, gulls, turns, skimmers etc. and many other water dependant birds. As mentioned in the IUCN Red Book, about 100 species of migratory birds regularly or occasionally visit the country.

"The Asia-Pacific Migratory Waterbird Conservation Strategy" 2001-2005, identified 50 species of migratory waterbirds as threatened, out of which 14 species occur in Bangladesh. In addition to that eleven species of resident waterbirds are also identified as threatened. (Source: *The Red Book of Threatened Birds of Bangladesh 2000*)

The important threatened species are Masked Finfoot (*Heliopais personata*), Indian Skimmer (*Rhynchops albicollis*), Black-headed Ibis (*Treskeornis melanocephala*), Greater Adjutant (*L. dubius*), Lesser Adjutant, Baikal Teal (*Anas formosa*), Baer's Pochard (*Aythya baeri*), Ferruginous Pochard (*Aythya ferina*), Wood snipe (*Gallinago nemoricola*), Norman's Green shank (*Tringa guttifer*), Spoon-billed Sandpiper (*Eurynorynchus pygmeus*).

The wetlands of Bangladesh are being degraded rapidly due to population pressure, withdrawal of water for irrigation, destruction of swamp forest and many other anthropogenic and natural causes. Large scale habitat conversion, unsustainable harvesting policies and lack of ecological considerations have led to the destruction of valuable wetland habitat for water birds and other associated biodiversity. Immediate action is required for restoring these habitats and conserving the water birds in Bangladesh.

### B. National administrative structures for migratory waterbirds and wetlands

**Table 1: National administrative structures responsible for managing migratory waterbirds and wetlands**

Name of Agency	Geographic scope	Thematic Focus	Principle outputs on waterbirds and wetlands
Ministry of Environment and Forest (MoEF)	Bangladesh	Migratory waterbirds and Wetland Conservation	Signatory to CBD, CMS, CITES and Ramsar Convention  Declaration of two Ramsar sites - The Sundarbans and Tanguar Haor

<sup>1</sup> *Haor* are naturally depressed saucer-shaped water bodies.

			<p>Management plan for Tanguar Haor developed</p> <p>National Biodiversity Strategy Action Plan (NBSAP) developed</p> <p>On-going activities on Conservation of Biodiversity, Marine Park Establishment &amp; Eco-tourism Development at St. Martin's Island</p> <p>On going activities of Sustainable Environment Management Programme (SEMP) for restoration of wetlands</p>
Ministry of Land	Bangladesh	Land management including wetlands	<p>Handover of management of Tanguar <i>haor</i> to the Ministry of Environment and Forest (MoEF)</p> <p>Hand over of few other wetlands to Department of Fisheries for conservation as fish sanctuary</p>
Ministry of water Resources	Bangladesh	Integrated Water Resource Management	Establishment of Haor and Wetland Development Board

### C. National policy and legislation relating to migratory waterbirds and wetlands

#### Laws:

- Wildlife (Preservation) (Amendment) Act, 1974
- Environment Conservation Act, 1995,
- Environment Conservation Rules 1997,
- Forest Act 1927, (Amended in 2000),

#### Policies:

- Environment Policy 1992
- Wetland Policy (Draft), 1998
- National Water Policy, 1999
- National Fisheries Policy, 1992
- Coastal Zone Policy 2004

#### Strategy and Action Plans:

- National Conservation Strategy (NCS)
- National Biodiversity Strategy and Action Plan (NBSAP)
- National Environment Management Action Plan (NEMAP)
- Freshwater Fisheries Strategy

- Coastal Zone Development Strategy (Draft)
- National Water Management Plan (NWMP)
- National Adaptation Program of Action (NAPA)
- Inland Capture Fisheries Strategy 2005

**D. National government institutions involved in migratory waterbirds and wetlands research/management**

**Table 2: National government institutions involved in migratory waterbirds and wetlands research/management**

Name of Institution (with contact details)	Geographic scope	Thematic Focus or programmes	Principle outputs on waterbirds and wetlands
Forest Department (FD) Mohakhali, Dhaka	Bangladesh	<ul style="list-style-type: none"> <li>○ Wildlife conservation and Management</li> <li>○ Management of Protected Areas including Ramsar Sites and World Heritage sites etc.</li> </ul>	Declaration of Protected Areas: <ul style="list-style-type: none"> <li>○ Sundarbans East, West and South Wildlife Sanctuaries</li> <li>○ Char Kukri-Mukri Wildlife Sanctuary</li> <li>○ Ramsagar National Park</li> <li>○ Kaptai National Park</li> <li>○ Nijhum Dweep National park (proposed)</li> <li>○ Hail Haor Wildlife Sanctuary (proposed)</li> </ul> Implemented project such as: <ul style="list-style-type: none"> <li>○ Sundarban Biodiversity Conservation Project (SBCP): Water bird census carried out in Sundarban Area</li> </ul>
Department of Environment (DoE), Agargaon, Dhaka	Bangladesh	<ul style="list-style-type: none"> <li>○ Ecologically Critical Area (ECA) declaration and Management</li> </ul>	Declaration of Eight Ecologically Critical Areas: <ul style="list-style-type: none"> <li>○ St. Martin's Island</li> <li>○ Sea Front of Cox's Bazar and Teknaf</li> <li>○ Sonadia Island</li> <li>○ Hakaluki Haor</li> <li>○ Gulshan lake</li> <li>○ Strip of 10 km. outside the Sundarbans Reserved Forest</li> <li>○ Marjhat Baor</li> <li>○ Tanguar Haor</li> </ul> Projects such as: <ul style="list-style-type: none"> <li>▪ Coastal and Wetland Biodiversity Management Project (CWBMP)</li> </ul>
Department of Fisheries (DoF)			Projects such as: <ul style="list-style-type: none"> <li>▪ Community Based Fisheries Management (CBFM-2)</li> <li>▪ Management of Aquatic Resources Through Community Husbandry Project (MACH)</li> </ul>
Haor and wetland Development Board	Bangladesh	Management of aquatic resources in wetlands	- An action plan for <i>haor</i> and wetland management is being prepared
Bangladesh Water Development Board	Bangladesh	Management of water resources	- Afforestation on embankments, dams

		especially in rivers and channels	
Water Resource Planning Organization (WARPO)	Bangladesh	Planning for water resource management	Integrated Coastal Zone Management Project
Institute of Water Modelling (IWM)  House # 496, Road # 32, New DOHS, Mohakhali, Dhaka, Bangladesh	Bangladesh	Water modelling and GIS	- Water modelling for Sundarban
Center for Environmental & Geographic Information Services (CEGIS)  House # 6, Road # 23/C, Gulshan-1, Dhaka-1212, Bangladesh,	Bangladesh	GIS	- GIS based map of no. of important wetlands

**E. Main non-government organizations and academic institutions involved in migratory waterbirds and wetlands research/management**

**Table 3: Main non-government organizations and academic institutions involved in migratory waterbirds and wetlands research/management**

<b>Name of non-government organization/ University (with contact details)</b>	<b>Geographic scope</b>	<b>Thematic Focus or programmes</b>	<b>Principle outputs on waterbirds and wetlands</b>
International NGOs like IUCN - The World Conservation Union  H#11, R#138, Gulshan 1, Dhaka 1212, Bangladesh.	Bangladesh	Policy support regarding Species and wetland conservation; and management of wetland ecosystem	Wetland resource management, species assessment and conservation, Awareness raising, Capacity building, ecosystem restoration, Water bird census in selected wetlands and Sundarban etc.
National NGOs like  1. Nature Conservation and Management (NACOM) 8/12, Block- B, Lalmatia, Dhaka-1207, Bangladesh <a href="mailto:nacom@bdonline.com">nacom@bdonline.com</a>  2. Center for Natural Resources Studies (CNRS) H#14 (2 <sup>nd</sup> floor), R# 13/C, Block-E, Banani, Dhaka-1213, Bangladesh. <a href="mailto:cnrs@bdmail.com">cnrs@bdmail.com</a> <a href="mailto:cnrs@dominox.com">cnrs@dominox.com</a>	Bangladesh	Management of wetland resources, Awareness and advocacy	Awareness raising, ecosystem restoration, biodiversity conservation, wetland resource management etc.

<p>3. Bangladesh Centre for Advanced Studies (BCAS) House #10, Road #16A, Gulshan 1, Dhaka 1212, Bangladesh <a href="mailto:info@bcas.net">info@bcas.net</a></p> <p>4. Bangladesh POUSH (BP) 10/10 Iqbal Road (2nd Floor), Mohammadpur, Dhaka -1207, Bangladesh <a href="mailto:bup@citechco.net">bup@citechco.net</a></p> <p>5. Centre for Coastal Environmental Conservation (CCEC) House #93, Road #2, Sonadanga R/A, Khulna 9000, Bangladesh</p> <p>6. Bangladesh Environmental Lawyers Association (BELA). House # 15A, Road # 3, Dhanmondi, Dhaka-1205, Bangladesh <a href="mailto:belabangla.net">belabangla.net</a></p> <p>7. Forum of Environmental Journalists of Bangladesh (FEJB) 42/1, Kha, Segun Bagicha, Dhaka - 1000, Bangladesh <a href="mailto:fejb@bangla.net">fejb@bangla.net</a></p> <p>8. Center For Sustainable Development (CFSD) House# 50/1, Road # 11/A Dhanmondi <a href="mailto:mahfuz@bdcom.com">mahfuz@bdcom.com</a></p> <p>9. Coastal Area Resource Development and Management Association (CARDMA) 159 Gulshan Avenue Dhaka –1212, Bangladesh <a href="mailto:hmcardma@citechco.net">hmcardma@citechco.net</a></p>			
<p>Societies and clubs as:</p> <p>1. Wildlife Society of Bangladesh C/o Department of Zoology, Dhaka University, Dhaka-1000, Bangladesh</p> <p>2. Zoological Society of Bangladesh C/o Department of Zoology, Dhaka University, Dhaka-1000, Bangladesh</p> <p>3. Bangladesh Bird Club</p>	Bangladesh	Advocacy and Census	Inputs in different national conservation related issues and census reports.

House # 55 B, Street #2 - Banani DOHS, Dhaka 1206, Bangladesh			
Wildlife Biology Branches of the University of Dhaka, Jahangirnagar University and Chittagong University	Bangladesh	Research and offering degrees like B. Sc., M.S., M. Phil. and Ph. D.	Thesis as well as scientific publications on wildlife that also include water birds and their habitats.
Association as: 1. Bangladesh Scouts  National Headquarters 70/1 Purana Paltan Line Inner Circular Road Scout Bhaban, Kakrail, Dhaka –1000, Bangladesh	Bangladesh	Awareness building	Rallies, meetings, discussions and jamboree

#### F. International Instruments

**Table 4: Main International Instruments (Treaties/Agreements) that are relevant to the migratory waterbirds and wetlands of the country**

Instruments – formal	Geographic scope	Thematic Focus	Implementing Strategy or Action Plan
Convention on Biological Diversity (CBD), signed in 1992 and ratified in 1994	Bangladesh	Biodiversity	NBSAP has been developed
Convention on Migratory Species (CMS), Ratified in 2005	Bangladesh	Migratory higher vertebrate species such as marine turtles, migratory birds etc.	Signing MoU for Indian Ocean/ South Asian Marine Turtle
The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), accessed in 1981 and ratified in 1982	Bangladesh	Endangered species of Fauna and Flora	
Ramsar Convention, ratified in 1992	Bangladesh	Wetland resources	Tanguar Haor Management plan  Working plan for Sundarbans East and West Division

#### G. International Programs and Activities

No large scale or national level programmes yet but a few self funded individual census or study.

**Table 5: International activities involving the countries migratory waterbirds (initiated in or since 2000, earlier programmes may also be included)**

Activity	Waterbird Group	International partners	Principle outputs
Annual Waterbird census in Haor and Coastal areas by Bangladesh Bird Club since 1993	All waterbird groups	As a part of Wetlands International's Asian Waterfowl census (AWC)	Wetlands International use these data
Waterbird census by NACOM 1985 onward	All waterbird groups	Asian Wetland Bureau (AWB)	Census reports

## H. List of Regular Breeding and Migratory Waterbirds

**Table 6: Migratory waterbirds of Bangladesh**

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status
1.	Anseriformes	Anatidae	<i>Anas acuta</i>	Northern Pintail	Lenja Hans	Regular visitor
2.			<i>Anas clypeata</i>	Northern Shoveller	Pantamukhi	Regular visitor
3.			<i>Anas crecca</i>	Common Teal	Patari Hans	Regular visitor
4.			<i>Anas falcata</i>	Falcated Teal	Shikhajukto Hans	Regular visitor
5.			<i>Anas formosa</i>	Baikal Teal	Boikal Hans	Rare visitor
6.			<i>Anas penelope</i>	Eurasian Wigeon	Lalshir	Regular visitor
7.			<i>Anas platyrhynchos</i>	Mallard	Niishir	Regular visitor
8.			<i>Anas querquedula</i>	Garganey	Giria Hans	Regular visitor
9.			<i>Anas strepera</i>	Gadwall	--	Regular visitor
10.			<i>Anser anser</i>	Greylag Goose	Dhushar Rajhans	Regular visitor
11.			<i>Anser fabalis</i>	Bean Goose	--	Rare visitor
12.			<i>Anser indicus</i>	Bar-headed Goose	Rajhans	Regular visitor
13.			<i>Aythya baeri</i>	Baer's Pochard	Baro Bhuti Hans	Regular visitor
14.			<i>Aythya ferina</i>	Common Pochard	Kalo Hans	Regular visitor
15.			<i>Aythya fuligula</i>	Tufted Duck	Bamunia Hans	Regular visitor
16.			<i>Aythya marila</i>	Greater Scaup	--	Rare visitor
17.			<i>Aythya nyroca</i>	Ferruginous Pochard	Bhuti Hans	Regular visitor
18.			<i>Marmaronetta angustirostris</i>	Marbled Duck	Chiti Hans	Rare visitor
19.			<i>Rhodonessa rufina</i>	Red-crested Pochard	Rangamuri	Regular visitor
20.			<i>Tadorna ferruginea</i>	Ruddy Shelduck	Chokhachokhi/ Chokha	Regular visitor
21.			<i>Tadorna tadorna</i>	Common Shelduck	Shah Choha/Sachka	Regular visitor
22.	Gruiformes	Gruidae	<i>Grus virgo</i>	Demoiselle Crane	--	Rare visitor
23.		Rallidae	<i>Fulica atra</i>	Common Coot	Kaalo Koot	Regular visitor
24.			<i>Porzana porzana</i>	Spotted Crake	Chitra Crake	Regular visitor
25.			<i>Porzana pusilla</i>	Baillon's Crake	--	Regular visitor
26.			<i>Rallus aquaticus</i>	Water Rail	Jalchari Rail	Regular visitor
27.	Ciconiiformes	Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	--	Regular visitor
28.			<i>Arenaria interpres</i>	Ruddy Turnstone	Patharghurani Batan	Regular visitor
29.			<i>Calidris alba</i>	Sanderling	--	Regular visitor
30.			<i>Calidris alpina</i>	Dunlin	--	Rare visitor
31.			<i>Calidris canutus</i>	Knot	--	Regular visitor
32.			<i>Calidris minuta</i>	Little Stint	--	Regular visitor
33.			<i>Calidris ruficollis</i>	Red-necked Stint	--	Regular visitor
34.			<i>Calidris subminuta</i>	Long-toed Stint	--	Rare visitor
35.			<i>Calidris temminckii</i>	Temminck's Stint	--	Regular visitor
36.			<i>Calidris tenuirostris</i>	Great Knot	--	Regular visitor
37.			<i>Calidris ferruginea</i>	Curlew Sandpiper	--	Regular visitor

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Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status
38.			<i>Calidris pygmeus</i>	Spoon-billed Sandpiper	--	Regular visitor
39.			<i>Gallinago gallinago</i>	Fantail Snipe	Kada-khochha/Chaga	Regular visitor
40.			<i>Gallinago nemoricola</i>	Wood Snipe	Ban Chaha	Regular visitor
41.			<i>Gallinago solitaria</i>	Solitary Snipe	Ban Chaha	Regular visitor
42.			<i>Gallinago stenura</i>	Pintail Snipe	Kada-khochha/Chaga	Regular visitor
43.			<i>Limicola falcinellus</i>	Broad-billed Sandpiper	--	Regular visitor
44.			<i>Limnocryptes minimus</i>	Jack Snipe	Choto Chaga	Regular visitor
45.			<i>Limnodromus semipalmatus</i>	Snipe-billed Godwit	--	Rare visitor
46.			<i>Limosa lapponica</i>	Bar-tailed Godwit	--	Regular visitor
47.			<i>Limosa limosa</i>	Black-tailed Godwit	Jurali	Regular visitor
48.			<i>Numenius arquata</i>	Eurasian Curlew	Baro Gulinda	Regular visitor
49.			<i>Numenius madagascariensis</i>	Eastern Curlew	--	Regular visitor
50.			<i>Numenius phaeopus</i>	Whimbrel	Choto Gulinda	Regular visitor
51.			<i>Philomachus pugnax</i>	Ruff	--	Regular visitor
52.			<i>Scolopax rusticola</i>	Eurasian Woodcock	--	Rare visitor
53.			<i>Tringa erythropus</i>	Spotted Redshank	--	Rare visitor
54.			<i>Tringa glareola</i>	Wood Sandpiper	--	Regular visitor
55.			<i>Tringa guttifer</i>	Normann's Greenshank	--	Regular visitor
56.			<i>Tringa nebularia</i>	Greenshank	--	Regular visitor
57.			<i>Tringa ochropus</i>	Green Sandpiper	--	Regular visitor
58.			<i>Tringa stagnatilis</i>	Marsh Sandpiper	Jalar Cha-pakhi	Regular visitor
59.			<i>Tringa totanus</i>	Common Redshank	Lal-pa Pi-oo	Regular visitor
60.			<i>Xenus cinereus</i>	Avocet-sandpiper	--	Regular visitor
61.		Charadriidae	<i>Haematopus ostralegus</i>	Eurasian Oystercatcher	Shuktibhuji Batan	Rare visitor
62.			<i>Recurvirostra avosetta</i>	Pied Avocet	Dhenga	Regular visitor
63.		Glareolidae	<i>Charadrius alexandrinus</i>	Kentish Plover	Jiria	Regular visitor
64.			<i>Charadrius dubius</i>	Little Ringed Plover	Choto Jiria	Regular visitor
65.			<i>Charadrius hiaticula</i>	Common Ringed Plover	--	Regular visitor
66.			<i>Charadrius leschenaultii</i>	Greater Sand Plover	--	Regular visitor
67.			<i>Charadrius mongolus</i>	Lesser Sand Plover	--	Regular visitor
68.			<i>Charadrius placidus</i>	Long-billed Ringed Plover	--	Regular visitor
69.			<i>Dromas ardeola</i>	Crab Plover	--	Rare visitor
70.			<i>Pluvialis dominicus</i>	Pacific Golden Plover	Batan	Regular visitor
71.			<i>Pluvialis squatarola</i>	Grey Plover	--	Regular visitor
72.			<i>Vanellus cinereus</i>	Grey-headed Lapwing	Dhushor Ti-ti	Regular visitor
73.			<i>Vanellus gregarius</i>	Sociable Lapwing	Hot-ti-ti	Regular visitor
74.			<i>Vanellus leucurus</i>	White-tailed Lapwing	Sadaleji Titriwa	Rare visitor
75.			<i>Vanellus vanellus</i>	Northern Lapwing	--	Rare visitor
76.		Laridae	<i>Anous tenuirostris</i>	Lesser Noddy / Whitecapped Noddy	--	Rare visitor
77.			<i>Chlidonias hybridus</i>	Whiskered Tern	Gangchil	Regular visitor
78.			<i>Chlidonias leucopterus</i>	White-winged Tern	--	Rare visitor

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Status
79.			<i>Larus argentatus</i>	Herring Gull	Jal Kabutor	Rare visitor
80.			<i>Larus brunnicephalus</i>	Brown-headed Gull	Gonga Koitor	Regular visitor
81.			<i>Larus ichthyaetus</i>	Pallas's Gull	Bara Jal Kabutor	Regular visitor
82.			<i>Larus ridibundus</i>	Black-headed Gull	Gonga Koitar	Regular visitor
83.			<i>Stercorarius parasiticus</i>	Parasitic Skua	Jaladoshshyu Pakhi	Rare visitor
84.			<i>Sterna caspia</i>	Caspian Tern	--	Rare visitor
85.			<i>Sterna fuscata</i>	Sooty Tern	--	Rare visitor
86.			<i>Sterna hirundo</i>	Common Tern	Gangchil	Regular visitor
87.			<i>Sterna sumatrana</i>	Black-naped Tern	--	Rare visitor
88.		Podicipedidae	<i>Podiceps cristatus</i>	Great Crested Grebe	Khopa Duburi	Regular visitor
89.		Phaethontidae	<i>Pelecanus philippensis</i>	Spot-billed Pelican	Gogonber	Rare visitor
90.			<i>Phaethon rubricauda</i>	Red-tailed Tropic Bird	--	Rare visitor
91.		Sulidae	<i>Sula sula</i>	Red-footed Booby	--	Rare visitor
92.		Ardeidae	<i>Ardea goliath</i>	Goliath Heron	Mohakoi/Bok	Rare visitor
93.			<i>Botaurus stellaris</i>	Great Bittern	--	Rare visitor
94.		Phoenicopteridae	<i>Phoenicopus ruber</i>	Greater Flamingo	Kanthuti/ Kanmunthi	Rare visitor
95.		Pelecanidae	<i>Pelecanus onocrotalus</i>	Great White Pelican	Gogonber	Rare visitor
96.		Ciconiidae	<i>Ciconia ciconia</i>	White Stork	Sada Manikjor	Regular visitor

Source: The Red Book of Threatened Birds of Bangladesh 2000

**Table 7: Resident Waterbirds of Bangladesh**

Sl. No.	Order	Family	Scientific Name	English Name	Local Name
1.	Anseriformes	Dendrocygnidae	<i>Cairina scutulata</i>	White-winged Duck	Bhadi Hans
2.			<i>Dendrocygna bicolor</i>	Fulvous Whistling-duck	Baro Shorali
3.			<i>Dendrocygna javanica</i>	Lesser Whistling-duck	Sharali/ Gecho-Hans
4.		Anatidae	<i>Anas poecilorhyncha</i>	Spot-billed Duck	Pati Hans
5.			<i>Nettapus coromandelianus</i>	Cotton Pygmy-goose	Bali Hans/ Bele Hans
6.			<i>Sarkidiornis melanotos</i>	Comb Duck	Buncha Hans
7.		Gruidae	<i>Grus antigone</i>	Sarus Crane	Sarash Pakhi
8.		Heliornithidae	<i>Heliopais personata</i>	Masked Finfoot	Goila Hansh
9.		Rallidae	<i>Amauornis akool</i>	Brown Crake	Pingol Crake
10.			<i>Amauornis phoenicurus</i>	White-breasted Waterhen	Dahuk
11.			<i>Gallicrex cinerea</i>	Watercock	Kura
12.			<i>Gallinula chloropus</i>	Common Moorhen	Jol Moorgi
13.			<i>Gallirallus striatus</i>	Slaty-breasted Rail	--
14.			<i>Porphyrio porphyrio</i>	Purple Swampen	Kalim/ Kaim
15.			<i>Porzana bicolor</i>	Black-tailed Crake	Dora Crake
16.			<i>Porzana fusca</i>	Ruddy-breasted Crake	Ranga Crake
17.	Ciconiiformes	Rostratulidae	<i>Rostratula bengalensis</i>	Greater Painted-snipe	Rongila Chaga
18.		Jacaniidae	<i>Hydrophasianus chirurgus</i>	Pheasant-tailed Jacana	Jol Moyur/ Neo
19.			<i>Metopidius indicus</i>	Bronze-winged Jacana	Jolpipi/ Pipi

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Sl. No.	Order	Family	Scientific Name	English Name	Local Name
20.		Burhinidae	<i>Burhinus oedincnemus</i>	Eurasian Thick-knee	Khorma
21.			<i>Esacus recurvirostris</i>	Great Thick-knee	--
22.		Charadriidae	<i>Himantopus himantopus</i>	Black-winged Stilt	Lal-pa Dhenga
23.			<i>Vanellus duvaucelii</i>	River Lapwing	Hot-titi
24.			<i>Vanellus indicus</i>	Red-wattled Lapwing	Lal-lotika Hot-ti-ti
25.			<i>Vanellus malabaricus</i>	Yellow-wattled Lapwing	Hot-ti-ti
26.		Glareolidae	<i>Glareola lactea</i>	Small Pratincole	Babui Batan
27.			<i>Glareola pratincola</i>	Collared Pratincole	Babui Batan
28.		Laridae	<i>Gelocheidon nilotica</i>	Gull-billed Tern	Gangchil
29.			<i>Rynchops albigollis</i>	Indian Skimmer	Panikata/ Jolkhor
30.			<i>Sterna acuticauda</i>	Black-bellied Tern	Gangchil
31.			<i>Sterna albigrons</i>	Little Tern	Khudey Gangchil
32.			<i>Sterna aurantia</i>	River Tern	Maach Khaikka
33.			<i>Sterna bengalensis</i>	Lesser Crested Tern	--
34.			<i>Sterna bergii</i>	Great Crested Tern	--
35.		Podicipedidae	<i>Tachybaptus ruficollis</i>	Little Grebe	Duburi/ Dubalu
36.		Anhingidae	<i>Anhinga melanogaster</i>	Darter	Goyer/ Shap-pakhi
37.		Phalacrocoracidae	<i>Phalacrocorax carbo</i> (Linnaeus)	Great Cormorant	Paan-kowri/ Jol-Kak
38.			<i>Phalacrocorax fuscicollis</i>	Indian Cormorant	Paan-kowri
39.			<i>Phalacrocorax niger</i>	Little Cormorant	Paan-kowri
40.		Ardeidae	<i>Ardea cinerea</i>	Grey Heron	Dhushor Bok
41.			<i>Ardea insignis</i>	White-bellied Heron	Sada Konka
42.			<i>Ardea purpurea</i>	Purple Heron	Beguni Bok
43.			<i>Ardeola bacchus</i>	Chinese Pond Heron	Cheena Bok
44.			<i>Ardeola grayii</i>	Indian Pond Heron	Kani Bok/ Kana Bok/ Korchey Bok
45.			<i>Bubulcus ibis</i>	Cattle Egret	Go-bok
46.			<i>Butorides striatus</i>	Little Heron	Sabuj Bok
47.			<i>Casmerodius albus</i>	Great Egret	Jathua/ Sada Bok
48.			<i>Dupetor flavicollis</i>	Black Bittern	Kalo Bok
49.			<i>Egretta garzetta</i>	Little Egret	Choto Bok
50.			<i>Egretta sacra</i>	Pacific Reef Egret	--
51.			<i>Gorsachius melanolophus</i>	Malayan Night Heron	Bagha Bok
52.			<i>Ixobrychus cinnamomeus</i>	Cinnamon Bittern	Lal Bok
53.			<i>Ixobrychus minutus</i>	Little Bittern	Khudey Bok
54.			<i>Ixobrychus sinensis</i>	Yellow Bittern	Holdey Bok/ Kath Bok
55.			<i>Mesophoyx intermedia</i>	Intermediate Egret	Maijhla Bok/ Korche Bok
56.			<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	Waak/ Nishi Bok
57.		Threskiornithidae	<i>Platalea leucorodia</i>	Eurasian Spoonbill	Kodali Bok/ Khunte Bok
58.			<i>Plegadis falcinellus</i>	Glossy Ibis	Duchora

Sl. No.	Order	Family	Scientific Name	English Name	Local Name
59.			<i>Pseudibis papillosa</i>	Black Ibis	Kalo Duchora
60.			<i>Threskiornis melanocephalus</i>	Black-headed Ibis	Kastey-chora
61.		Ciconiidae	<i>Anastomus oscitans</i>	Asian Openbill	Shamuk-bhanga/ Shamuk-khol
62.			<i>Ciconia episcopus</i>	Woolly-necked Stork	Manikjor
63.			<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	Loharjongo
64.			<i>Leptoptilos dubius</i>	Greater Adjutant	Hargila
65.			<i>Leptoptilos javanicus</i>	Lesser Adjutant	Modontak
66.			<i>Mycteria leucocephala</i>	Painted Stork	Shona-jongha/ Rangila Bok

Source: The Red Book of Threatened Birds of Bangladesh 2000

### I. Migration Routes, Staging Sites, and Non-breeding Areas

Migratory routes for waterbirds are yet to be identified; however, basic data are available that can be used in delineating the same.

**Table 8: key breeding areas, key staging areas and non-breeding areas of the country's waterbirds**

Key breeding areas	Key staging areas	Non-breeding areas
<ul style="list-style-type: none"> <li>○ Haor areas such as Tanguar, Hail, Hakaluki etc.</li> <li>○ Sundarbans</li> <li>○ Coastal mangroves apart from Sundarbans like Hatia, Nijhum Dweep etc.</li> </ul>	<ul style="list-style-type: none"> <li>○ Haor areas of the North west</li> <li>○ Off shore Islands like Nijhum Dweep etc.</li> </ul>	<ul style="list-style-type: none"> <li>○ All aquatic bodies of the country</li> </ul>

### J. Waterbirds of CAF Conservation Concern (WCC)

The species in the table have been included on the basis of the status of the birds in IUCN Red Book of Threatened Birds of Bangladesh, 2000. Status of some of the birds in the table indicated as not threatened (NO), but these have been included due to their recent declining trend in the country (Dr. Ronald R. Halder *pers. com.*).

**Table 9: Waterbird species (resident) that are of the highest priority in the country**

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Local Status	Global Status
1.	Anseriformes	Dendrocygnidae	<i>Cairina scutulata</i>	White-winged Duck	Bhadi Hans	CR	EN
2.		Anatidae	<i>Anas poecilorhyncha</i>	Spot-billed Duck	Pati Hans	NO	--
3.			<i>Nettapus coromandelianus</i>	Cotton Pygmy-goose	Bali Hans/ Bele Hans	NO	--
4.			<i>Sarkidiornis melanotos</i>	Comb Duck	Buncha Hans	CR	--
5.		Gruidae	<i>Grus antigone</i>	Sarus Crane	Sarash Pakhi	DD	--
6.		Heliothidae	<i>Heliopais personata</i>	Masked Finfoot	Goila Hansh	EN	VU
7.	Ciconiiformes	Rostratulidae	<i>Rostratula bengalensis</i>	Greater Painted-snipe	Rongila Chaga	NO	--
8.		Burhinidae	<i>Burhinus oedicnemus</i>	Eurasian Thick-knee	Khorma	DD	--
			<i>Esacus recurvirostris</i>	Great Thick-knee	--	DD	--

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Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Local Status	Global Status
10.			<i>Vanellus duvaucellii</i>	River Lapwing	Hot-titi	EN	--
11.			<i>Vanellus malabaricus</i>	Yellow-wattled Lapwing	Hot-ti-ti	NO	--
12.		Laridae	<i>Rynchops albicollis</i>	Indian Skimmer	Panikata/ Jolkhor	EN	VU
13.			<i>Sterna acuticauda</i>	Black-bellied Tern	Gangchil	EN	VU
14.			<i>Sterna aurantia</i>	River Tern	Maach Khaikka	NO	--
15.		Anhingidae	<i>Anhinga melanogaster</i>	Darter	Goyer/ Shap-pakhi	VU	LR
16.		Phalacrocoracidae	<i>Phalacrocorax carbo</i>	Great Cormorant	Paan-kowri/ Jol-Kak	NO	--
17.			<i>Phalacrocorax fuscicollis</i>	Indian Cormorant	Paan-kowri	DD	--
18.		Ardeidae	<i>Ardea insignis</i>	White-bellied Heron	Sada Konka	DD	EN
19.			<i>Ardea purpurea</i>	Purple Heron	Beguni Bok	NO	--
20.			<i>Dupetor flavicollis</i>	Black Bittern	Kalo Bok	DD	--
21.			<i>Egretta sacra</i>	Pacific Reef Egret	--	DD	--
22.			<i>Gorsachius melanolophus</i>	Malayan Night Heron	Bagha Bok	CR	--
23.			<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	Waak/ Nishi Bok	NO	--
24.		Threskiornithidae	<i>Platalea leucorodia</i>	Eurasian Spoonbill	Kodali Bok/ Khunte Bok	CR	--
25.			<i>Plegadis falcinellus</i>	Glossy Ibis	Duchora	DD	--
26.			<i>Pseudibis papillosa</i>	Black Ibis	Kalo Duchora	DD	LR
27.			<i>Threskiornis melanocephalus</i>	Black-headed Ibis	Kastey-chora	DD	LR
28.		Ciconiidae	<i>Ciconia episcopus</i>	Woolly-necked Stork	Manikjor	DD	--
29.			<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	Loharjongo	DD	--
30.			<i>Leptoptilos dubius</i>	Greater Adjutant	Hargila	CR	EN
31.			<i>Leptoptilos javanicus</i>	Lesser Adjutant	Modontak	EN	VU
32.			<i>Mycteria leucocephala</i>	Painted Stork	Shona-jongha/ Rangila Bok	CR	LR

Source: The Red Book of Threatened Birds of Bangladesh 2000 and Dr. Ronald R. Halder (Pers. Com.)

**Status code:** CR – Critically Endangered, EN – Endangered, VU – Vulnerable, LR- Lower Risk, DD – Data Deficient, NO – Not Threatened

**Table 10: Waterbird species (migratory) of the high priority in the country**

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Distribution
1.	Anseriformes	Anatidae	<i>Anas falcata</i>	Falcated Teal	Shikhajukto Hans	Tanguar Haor, Pashua Haor
2.			<i>Anas formosa</i>	Baikal Teal	Boikal Hans	Dhaka Zoo Lake
3.			<i>Aythya baeri</i>	Baer's Pochard	Baro Bhuti Hans	Hakaluki Haor, Tanguar Haor
4.			<i>Aythya marila</i>	Greater Scaup	--	W
5.			<i>Aythya nyroca</i>	Ferruginous Pochard	Bhuti Hans	W

Sl. No.	Order	Family	Scientific Name	English Name	Local Name	Distribution
6.			<i>Rhodonessa rufina</i>	Red-crested Pochard	Rangamuri	W
7.			<i>Tadorna ferruginea</i>	Ruddy Shelduck	Chokhachokhi/ Chokha	W
8.			<i>Tadorna tadorna</i>	Common Shelduck	Shah Choha/Sachka	Coasts and charlands
9.	Ciconiiformes	Scolopacidae	<i>Arenaria interpres</i>	Ruddy Turnstone	Patharghurani Batan	StM, Coasts
10.			<i>Calidris alba</i>	Sanderling	--	Coasts
11.			<i>Calidris canutus</i>	Knot	--	E-central, E on coast
12.			<i>Calidris subminuta</i>	Long-toed Stint	--	Kukrimukri Island
13.			<i>Calidris tenuirostris</i>	Great Knot	--	MF, Coasts
14.			<i>Calidris pygmeus</i>	Spoon-billed Sandpiper	--	Nijhum Dweep, Dhal Char
15.			<i>Gallinago stenura</i>	Pintail Snipe	Kada-khochal/Chaga	W
16.			<i>Limicola falcinellus</i>	Broad-billed Sandpiper	--	Meghna Estuary
17.			<i>Numenius phaeopus</i>	Whimbrel	Choto Gulinda	MF, SF
18.			<i>Scolopax rusticola</i>	Eurasian Woodcock	--	MEF
19.			<i>Tringa erythropus</i>	Spotted Redshank	--	Hatiya & Sandeep coasts
20.			<i>Tringa guttifer</i>	Nordmann's Greenshank	--	Char Pia, Ghasiar Char, Dhal Char
21.		Charadriidae	<i>Haematopus ostralegus</i>	Eurasian Oystercatcher	Shuktibhuj Batan	SB, Coasts
22.		Glareolidae	<i>Charadrius hiaticula</i>	Common Ringed Plover	--	Cox's Bazar in MF, SF
23.			<i>Charadrius mongolus</i>	Lesser Sand Plover	--	W
24.			<i>Charadrius placidus</i>	Long-billed Ringed Plover	--	Coasts, River islands
25.			<i>Dromas ardeola</i>	Crab Plover	--	SB, Teknaf
26.			<i>Vanellus gregarius</i>	Sociable Lapwing	Hot-ti-ti	NE
27.			<i>Vanellus vanellus</i>	Northern Lapwing	--	NE
28.		Laridae	<i>Sterna caspia</i>	Caspian Tern	--	Coasts
29.	Podicipediformes	Podicipedidae	<i>Podiceps cristatus</i>	Great Crested Grebe	Khopa Duburi	Haors
30.		Phaethontidae	<i>Pelecanus philippensis</i>	Spot-billed Pelican	Gogonber	Coasts
31.		Ciconiidae	<i>Ciconia ciconia</i>	White Stork	Sada Manikjor	SB

Source: *The Red Book of Threatened Birds of Bangladesh 2000* and Dr. Ronald R. Halder (Pers. Com.)

**Distribution code:** W–Wide, N–North, S–South, E–East, C–Central, NE–Northeast, NW– Northwest, SE–Southeast, StM–St. Martin’s Island, DF–Deciduous Forest, MEF–Mixed Evergreen Forest, SB–Sundarbans Mangrove Forest

#### **K. Recommendations to Improve International Migratory Waterbird Conservation**

Ministry of Environment and Forests (MoEF) through its Department of Environment (DoE) and Forest Department (FD) is the main institutional structure for wildlife conservation including waterbirds and their habitats in Bangladesh. FD has a institutional structure named ‘Wildlife Management and Nature Conservation Circle’ for this purpose. It is very important to mention that Ministry of Land is the legal authority for land management including wetlands. Therefore, role of Ministry of Land is very crucial for wildlife management as well as waterbirds.

IUCN and numerous national NGOs, Wildlife Societies, Bird clubs and academic institutes are also involved in various activities related to waterbird conservation.

Bangladesh is signatory to CBD, CMS, CITES and Ramsar Convention. No national level initiative has been taken for waterbirds. But self-funded waterbird census is undertaken each year in selected habitats.

Bangladesh has 244 migratory birds of which 96 are waterbirds. Considering the present threats to waterbird conservation in the country, 31 migratory waterbird species are of high priority for future action for conservation. Bangladesh is also important for resident waterbirds, which are mentioned in table 7. These waterbirds needs attention for immediate conservation effort and 32 resident waterbirds are of high priority for conservation.

The key breeding areas of these waterbirds are the *haor* areas, Sundarban and the off shore islands. *Haor* areas of North-East region, new accretion in river systems and mangroves of offshore islands play important role as key staging areas for waterbirds. Though all water bodies are providing non-breeding grounds for waterbirds, the main focus for conservation will be concentrated on the key breeding and staging areas.

#### Recommendations

- Extensive survey of migratory as well as resident waterbirds
- Inventory and assessment of waterbird habitats
- Establishment of bird sanctuary
- Awareness related to conservation of waterbirds and their habitats
- Support for capacity building in terms of technical and management aspect
- Resource mobilization for waterbird conservation

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