

Supporting Materials

Identification of wetlands of international importance in Porbandar, Gujarat, western India during 2015–2021

Table S1. The 141 species identified at the 23 Porbandar wetlands in Gujarat, India, monitored during Asian Waterbird Census in 2015–2021, with total numbers counted across all wetlands in each year. The 10 most abundant species are indicated in bold font.

Species	Total numbers counted across the 23 wetlands									
	2015	2016	2017	2018	2019	2020	2021			
Lesser Whistling-Duck <i>Dendrocygna javanica</i>	22	10	2	58	12	15	23			
Bar-headed Goose <i>Anser indicus</i>	0	0	0	0	0	6	0			
Greylag Goose <i>Anser anser</i>	40	105	0	5	40	50	40			
Knob-billed Duck <i>Sarkidiornis melanotos</i>	32	287	84	55	14	51	162			
Ruddy Shelduck <i>Tadorna ferruginea</i>	71	45	27	65	29	60	37			
Cotton Pygmy-Goose <i>Nettion coromandelianus</i>	0	178	12	50	12	8	51			
Garganey <i>Spatula querquedula</i>	262	5,420	16	76	200	1,980	1,382			
Northern Shoveler <i>Spatula clypeata</i>	10,855	19,904	2,740	11,201	7,532	7,701	14,190			
Gadwall <i>Mareca strepera</i>	339	6,778	626	2,114	564	16,220	8,570			
Eurasian Wigeon <i>Mareca penelope</i>	675	9,182	2,690	3,231	1,729	9,300	124,060			
Indian Spot-billed Duck <i>Anas poecilorhyncha</i>	176	5,326	244	236	197	234	531			
Mallard <i>Anas platyrhynchos</i>	22	1	5	16	10	12	0			
Northern Pintail <i>Anas acuta</i>	1,663	20,772	7,041	13,130	2,235	20,582	14,976			

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands						
	2015	2016	2017	2018	2019	2020	2021
Green-winged Teal <i>Anas crecca</i>	1,556	15,156	1,808	7,138	1,332	4,883	19,070
Common Pochard <i>Aythya ferina</i>	75	6,280	236	785	3,107	5,365	5,515
Ferruginous Duck <i>Aythya nyroca</i>	2	2	43	10	5	35	12
Tufted Duck <i>Aythya fuligula</i>	0	22	70	51	40	9	640
Greater Flamingo <i>Phoenicopterus roseus</i>	9,138	13,817	27,978	25,020	11,343	7,886	664
Lesser Flamingo <i>Phoeniconaias minor</i>	34,633	69,831	24,300	31,515	29,720	20,110	45,566
Little Grebe <i>Tachybaptus ruficollis</i>	639	344	160	57	145	100	1,726
Great Crested Grebe <i>Podiceps cristatus</i>	19	11	20	14	7	110	122
Water Rail <i>Rallus aquaticus</i>	0	0	0	0	0	3	6
Slaty-breasted Rail <i>Limnina striata</i>	0	0	0	0	0	1	0
Spotted Crane <i>Porzana porzana</i>	0	0	0	0	0	2	0
Eurasian Moorhen <i>Gallinula chloropus</i>	93	67	2	60	15	74	215
Eurasian Coot <i>Fulica atra</i>	28,397	19,993	16,183	13,690	6,348	18,908	45,651
Gray-headed Swamphen <i>Porphyrio poliocephalus</i>	1,119	7,454	130	282	367	116	743
White-breasted Waterhen <i>Amaurornis phoenicurus</i>	41	41	6	12	19	11	21
Brown Crane <i>Zapornia akool</i>	0	1	0	0	1	0	0
Little Crane <i>Zapornia parva</i>	0	0	0	0	0	3	1
Baillon's Crane <i>Zapornia pusilla</i>	0	1	0	1	2	1	28
Demoiselle Crane <i>Anthropoides virgo</i>	53,833	96,176	85,148	72,985	263,475	189,407	103,160

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands						
	2015	2016	2017	2018	2019	2020	2021
Sarus Crane <i>Antigone antigone</i>	0	3	0	0	1	0	0
Common Crane <i>Grus grus</i>	311	20,974	6,269	5,662	16,085	25,800	1,787
Indian Thick-knee <i>Barbhinus indicus</i>	0	0	0	2	0	0	0
Great Thick-knee <i>Esacus recurvirostris</i>	13	10	2	4	14	2	9
Black-winged Stilt <i>Himantopus himantopus</i>	1,300	2,642	565	265	358	355	723
Pied Avocet <i>Recurvirostra avosetta</i>	257	275	384	480	180	380	0
Black-bellied Plover <i>Pluvialis squatarola</i>	24	0	7	16	0	17	10
Pacific Golden-Plover <i>Pluvialis fulva</i>	2	52	65	53	4	9	49
Yellow-wattled Lapwing <i>Vanellus malabaricus</i>	7	75	0	0	13	88	1
Red-wattled Lapwing <i>Vanellus indicus</i>	722	516	317	316	161	307	660
White-tailed Lapwing <i>Vanellus leucurus</i>	13	6	2	17	6	10	0
Lesser Sand-Plover <i>Charadrius mongolus</i>	0	2,320	179	253	129	150	169
Greater Sand-Plover <i>Charadrius leschenaultii</i>	40	1,081	70	170	0	5	0
Kentish Plover <i>Charadrius alexandrinus</i>	588	245	61	14	12	4	161
Common Ringed Plover <i>Charadrius hiaticula</i>	1	0	0	0	0	0	0
Little Ringed Plover <i>Charadrius dubius</i>	51	194	19	21	21	9	8
Greater Painted-Snipe <i>Rostratula benghalensis</i>	5	0	0	0	3	4	2
Pheasant-tailed Jacana <i>Hydrophasianus chirurgus</i>	19	268	16	17	11	15	57
Whimbrel <i>Numenius phaeopus</i>	5	18	1	0	2	1	1

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands									
	2015	2016	2017	2018	2019	2020	2021			
Eurasian Curlew <i>Numenius arquata</i>	0	4	12	42	0	2	0			
Black-tailed Godwit <i>Limosa limosa</i>	6,199	11,524	1,250	2,330	6,008	2,473	1,145			
Ruddy Turnstone <i>Arenaria interpres</i>	0	0	7	5	2	4	4			
Ruff <i>Calidris pugnax</i>	378	10,779	230	2,100	235	853	359			
Curlew Sandpiper <i>Calidris ferruginea</i>	11	0	2	3	0	29	56			
Temminck's Stint <i>Calidris temminckii</i>	38	71	31	19	9	31	29			
Sanderling <i>Calidris alba</i>	0	0	365	17	150	200	0			
Dunlin <i>Calidris alpina</i>	10	58	0	0	0	5	0			
Little Stint <i>Calidris minuta</i>	600	10,900	592	754	147	2,118	713			
Common Snipe <i>Gallinago gallinago</i>	6	126	22	11	15	7	32			
Pin-tailed Snipe <i>Gallinago stenura</i>	0	0	0	0	0	0	1			
Terek Sandpiper <i>Xenus cinereus</i>	6	0	2	3	0	0	0			
Red-necked Phalarope <i>Phalaropus lobatus</i>	1	4	0	1	0	0	0			
Common Sandpiper <i>Actitis hypoleucos</i>	337	478	31	28	48	72	124			
Green Sandpiper <i>Tringa ochropus</i>	0	236	2	0	6	4	43			
Spotted Redshank <i>Tringa erythropus</i>	21	11	6	1	4	8	0			
Common Greenshank <i>Tringa nebularia</i>	20	125	34	16	8	12	53			
Marsh Sandpiper <i>Tringa stagnatilis</i>	339	318	33	82	71	169	374			
Wood Sandpiper <i>Tringa glareola</i>	43	671	22	71	34	40	106			

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands						
	2015	2016	2017	2018	2019	2020	2021
Common Redshank <i>Tringa totanus</i>	554	4,148	247	1,615	386	1,741	170
Collared Pratincole <i>Glaucola pratincola</i>	0	0	0	0	200	0	8
Oriental Pratincole <i>Glaucola maldivarum</i>	0	0	0	0	0	5	0
Collared/Oriental Pratincole <i>Glaucola pratincole/maldivarum</i>	0	0	0	0	0	0	5
Small Pratincole <i>Glaucola lactea</i>	0	3	0	0	10	70	80
Slender-billed Gull <i>Chroicocephalus genii</i>	298	104	701	60	3,256	1,536	21
Black-headed Gull <i>Chroicocephalus ridibundus</i>	6,565	3,143	1,000	5,045	9,110	8,350	1,280
Brown-headed Gull <i>Chroicocephalus brunnicephalus</i>	4,868	9,497	1,020	2,050	10,850	4,650	573
Pallas's Gull <i>Ichthyaeetus ichthyaeetus</i>	134	4,686	6	3	6	152	187
Caspian Gull <i>Larus cachinnans</i>	0	0	0	0	0	0	1
Lesser Black-backed Gull <i>Larus fuscus</i>	0	0	1,322	750	0	980	1
Heuglin's Gull <i>Larus fuscus heuglini</i>	0	0	401	0	64	0	687
Steppe Gull <i>Larus fuscus barabensis</i>	0	0	816	0	20	1	1
Little Tern <i>Sterna albifrons</i>	29	0	0	0	23	32	15
Gull-billed Tern <i>Gelobelidon nilotica</i>	182	291	42	44	273	233	230
Caspian Tern <i>Hydroprogne caspia</i>	59	43	17	33	54	93	44
Whiskered Tern <i>Chlidonias hypoleuca</i>	1,000	1,023	280	181	110	267	330
Common Tern <i>Sterna hirundo</i>	14	0	3	3	0	1	0
River Tern <i>Sterna aurantia</i>	302	1,817	302	332	158	141	562

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands						
	2015	2016	2017	2018	2019	2020	2021
Sandwich Tern <i>Thalasseus sandwicensis</i>	29	4	12	13	0	22	0
Lesser Crested Tern <i>Thalasseus bengalensis</i>	20	50	19	12	75	14	0
Indian Skimmer <i>Rynchops albigollis</i>	0	4	0	0	11	4	4
Asian Openbill <i>Anastomus oscitans</i>	41	2	4	17	2	7	5
Black Stork <i>Ciconia nigra</i>	0	3	0	0	0	0	0
Woolly-necked Stork <i>Ciconia episcopus</i>	5	13	6	21	4	15	0
White Stork <i>Ciconia ciconia</i>	0	0	1	0	2	0	4
Painted Stork <i>Mycteria leucocephala</i>	236	1,869	356	815	1,055	517	132
Oriental Darter <i>Anhinga melanogaster</i>	29	52	38	11	9	11	19
Little Cormorant <i>Microcarbo niger</i>	1,526	5,263	568	468	231	780	765
Great Cormorant <i>Phalacrocorax carbo</i>	0	75	33	70	76	146	202
Indian Cormorant <i>Phalacrocorax fuscicollis</i>	1,188	447	79	104	21	852	282
Great White Pelican <i>Pelecanus onocrotalus</i>	3,531	2,499	4,834	872	664	3,423	2,006
Dalmatian Pelican <i>Pelecanus crispus</i>	242	305	151	74	79	162	176
Great Bittern <i>Botaurus stellaris</i>	0	1	1	1	0	0	2
Yellow Bittern <i>Isobrychus sinensis</i>	0	0	0	0	0	1	0
Gray Heron <i>Ardea cinerea</i>	173	146	55	64	51	78	152
Purple Heron <i>Ardea purpurea</i>	98	126	39	9	13	14	78
Great Egret <i>Ardea alba</i>	383	4,244	1,268	810	2,263	663	1,384

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands									
	2015	2016	2017	2018	2019	2020	2021			
Intermediate Egret <i>Ardea intermedia</i>	150	410	5	10	37	5	22			
Little Egret <i>Egretta garzetta</i>	507	959	118	212	1,092	287	493			
Western Reef-Heron <i>Egretta gularis</i>	728	184	172	298	88	159	313			
Cattle Egret <i>Bubulcus ibis</i>	2,086	1,562	782	303	282	1,106	154			
Indian Pond-Heron <i>Ardeola grayii</i>	408	1,112	185	176	152	103	418			
Striated Heron <i>Butorides striata</i>	0	0	2	1	1	2	0			
Black-crowned Night-Heron <i>Nycticorax nycticorax</i>	0	2	0	0	10	1	1			
Glossy Ibis <i>Plegadis falcinellus</i>	300	902	73	3	53	176	703			
Black-headed Ibis <i>Threskiornis melanoccephalus</i>	369	1,499	149	293	379	797	219			
Red-naped Ibis <i>Pseudibis papillosa</i>	154	596	28	21	16	6	24			
Eurasian Spoonbill <i>Platalea leucorodia</i>	240	3,435	321	540	724	404	1,294			
Osprey <i>Pandion haliaetus</i>	8	6	14	10	5	4	2			
Greater Spotted Eagle <i>Clanga clanga</i>	2	5	2	1	4	7	0			
Eurasian Marsh Harrier <i>Circus aeruginosus</i>	47	48	99	22	50	14	42			
Brahminy Kite <i>Haliastur indus</i>	2	3	2	1	0	1	0			
Common Kingfisher <i>Alcedo atthis</i>	23	29	9	2	9	7	13			
White-throated Kingfisher <i>Halcyon smyrnensis</i>	52	99	14	17	11	10	44			
Pied Kingfisher <i>Ceryle rudis</i>	20	24	24	11	10	6	7			
Peregrine Falcon <i>Falco peregrinus</i>	6	3	0	0	0	2	4			

Table S1 (continued).

Species	Total numbers counted across the 23 wetlands								
	2015	2016	2017	2018	2019	2020	2021		
Paddyfield Warbler <i>Acrocephalus agricola</i>	0	0	0	0	0	4	27		
Blyth's Reed Warbler <i>Acrocephalus dumetorum</i>	0	0	0	0	0	2	0		
Clamorous Reed Warbler <i>Acrocephalus stentoreus</i>	0	0	0	0	5	10	174		
Barn Swallow <i>Hirundo rustica</i>	0	0	0	481	0	326	21,478		
Wire-tailed Swallow <i>Hirundo smithii</i>	498	1,172	2,456	2,276	0	74	101		
Red-rumped Swallow <i>Cecropis daurica</i>	0	2,688	130	1,160	0	100	0		
Streak-throated Swallow <i>Petrochelidon fluvicola</i>	0	0	0	0	0	392	0		
Bluethroat <i>Luscinia svecia</i>	0	0	0	0	0	0	4		
Streaked Weaver <i>Ploceus manyar</i>	0	0	0	0	1	0	0		
Black-breasted Weaver <i>Ploceus benghalensis</i>	0	0	0	0	0	0	600		
Western Yellow Wagtail <i>Motacilla flava</i>	172	98	22	161	200	100	12		
Citrine Wagtail <i>Motacilla citreola</i>	171	192	3	105	3	2	2		
White-browed Wagtail <i>Motacilla maderaspatensis</i>	0	26	6	4	0	3	5		
White Wagtail <i>Motacilla alba</i>	40	43	3	23	50	28	2		

Note: In addition to the above, the 74 species below are in the list of 214 species included in the Asian Waterbird Census (AWC) count form but were not recorded at the 23 Porbandar wetlands during the AWC 2015–2021 count period.

Red-necked Grebe *Podiceps grisegena*, Black-necked Grebe *Podiceps nigricollis*, Spot-billed Pelican *Pelecanus philippensis*, White-bellied Heron *Ardea insignis*, Goliath Heron *Ardea goliath*, Malayan Night Heron *Gorsachius melanolophus*, Black Bittern *Dupetor flavicollis*, Cinnamon Bittern *Ixobrychus cinnamomeus*, Black-necked Stork *Ephippiorhynchus asiaticus*, Lesser Adjutant *Leptoptilos javanicus*, Greater Adjutant *Leptoptilos dubius*, Fulvous Whistling Duck *Dendrocygna bicolor*, White-fronted Goose *Anser albifrons*, Common Shelduck *Tadorna tadorna*, White-winged Duck *Cairina scutulata*, Marbled Teal *Marmaronetta angustirostris*, Baer's Pochard *Aythya baeri*, Common Goldeneye *Bucephala clangula*, White-headed Duck *Oxyura leucocephala*, Falcated Teal *Mareca falcata*, Red-crested Pochard *Rhodonessa rufina*, Common Merganser *Mergus merganser*, Black-necked Crane *Grus nigricollis*, Siberian Crane *Leucogeranus leucogeranus*, Slaty-legged Crake *Rallina eurizonoides*, Ruddy-breasted Crake *Porzana fusca*, Masked Finfoot *Heliopais personata*, Bronze-winged Jacana *Metopidius indicus*, Crab Plover *Dromas ardeola*, Ibisbill *Ibidorhyncha struthersii*, Eurasian Oystercatcher *Haematopus ostralegus*, Northern Lapwing *Vanellus vanellus*, River Lapwing *Vanellus duvaucelii*, Sociable Lapwing *Vanellus gregarius*, Grey-headed Lapwing *Vanellus cinereus*, Long-billed Plover *Charadrius placidus*, Bar-tailed Godwit *Limosa lapponica*, Asiatic Dowitcher *Limnodromus semipalmatus*, Spotted (Nordmann's) Greenshank *Tringa guttifer*, Red Phalarope *Phalaropus fulicaria*, Eurasian Woodcock *Scolopax rusticola*, Solitary Snipe *Gallinago solitaria*, Swinhoe's Snipe *Gallinago megala*, Jack Snipe, *Lymnocyrtus minimus*, Great Knot *Calidris tenuirostris*, Long-toed Stint *Calidris subminuta*, Spoon-billed Sandpiper *Calidris pygmaeus*, Sooty Gull *Larus hemprichii*, White-winged Black Tern *Chelidonias leucopterus*, Great Crested Tern *Sterna bergii*, White-bellied Sea-Eagle *Haliaeetus leucogaster*, White-tailed Sea Eagle *Haliaeetus albicilla*, Pallas's Fish-Eagle *Haliaeetus leucoryphus*, Lesser Fish-Eagle *Ichthyophaga humilis*, Greater Fish-Eagle *Ichthyophaga ichthyaeetus*, Eastern Marsh-Harrier *Circus spilonotus*, Eastern Imperial Eagle *Aquila heliaca*, Brown Fish-Owl *Ketupa zeylonensis*, Buffy Fish-Owl *Ketupa ketupu*, Tawny Fish-Owl *Ketupa flavipes*, Blyth's Kingfisher *Alcedo Hercules*, Blue-eared Kingfisher *Alcedo meninting*, Stork-billed Kingfisher *Halcyon capensis*, Ruddy Kingfisher *Halcyon coromanda*, Black-capped Kingfisher *Halcyon pileate*, Brown-winged Kingfisher *Halcyon amauroptera*, Collared Kingfisher *Todiramphus chloris*, Greater Pied Kingfisher *Megaceryle lugubris*, Oriental Dwarf Kingfisher *Ceyx erithacus*, Grey Wagtail *Motacilla cinerea*, Red-throated Pipit *Anthus cervinus*, Water Pipit *Anthus spinoletta*, White-throated Dipper *Cinclus cinclus*, Brown Dipper *Cinclus pallasi*.