



Asian Waterbird Census

Results of Coordinated January
Counts for India 2006 - 2015



Wetlands
INTERNATIONAL

Text

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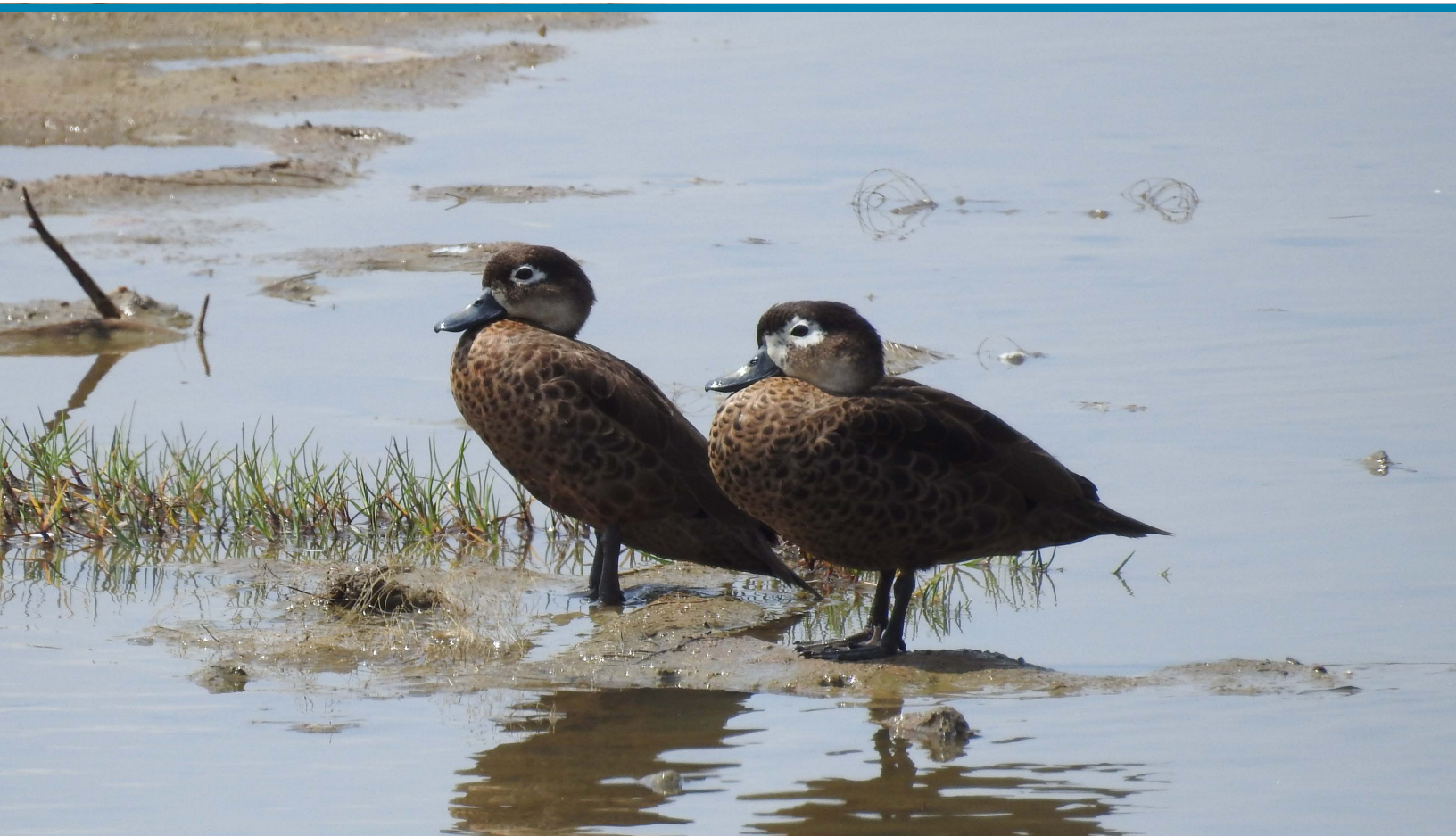
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Asian Waterbird Census India National Coordinators



Bombay Natural History Society



Wetlands International South Asia

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ABBREVIATIONS

AWC	Asian Waterbird Census	IWC	International Waterbird Census
BNHS	Bombay Natural History Society	KBA	Key Biodiversity Area
BSAP	Birdwatchers Society of Andhra Pradesh	MEA	Multilateral Environmental Agreements
CAF	Central Asian Flyway	MoEFCC	Ministry of Environment, Forests & Climate Change
CMS	Convention on the Conservation of Migratory Species of Wild Animals	NBSAP	National Biodiversity Strategy and Action Plan
EAAFP	East Asian – Australasian Flyway Partnership (EAAFP)	NWIA	National Wetland Inventory and Assessment
ENVIS	Environment Information System	SACON	Salim Ali Centre for Ornithology and Natural History
GEER	Gujarat Ecological Education and Research Foundation	UNESCO	United Nations Educational, Scientific and Cultural Organization
IBA	Important Bird Areas	UT	Union Territory
IUCN	International Union for Conservation of Nature	WPE	Waterbird Population Estimates

EXECUTIVE SUMMARY

Within the aegis of the International Waterbird Census (IWC), the Asian Waterbird Census (AWC) is a citizen science programme under which volunteers conduct waterbird counts in January across Asian wetlands. This report presents a collation of information on AWC counts from India during 2006-2015.

During 2006-2015, over 1400 volunteers conducted waterbird counts at 1409 wetlands of 23 States and 3 Union Territories. Wetlands of conservation significance include 18 Ramsar sites, 2 UNESCO World Heritage Sites, 1 UNESCO Biosphere Reserve, 74 Important Bird Areas, and 81 Protected Areas.

The waterbird counts in a year ranged between 0.77 million (in 2009) to 23.63 million (in 2014). During the 2006-2015 period, the AWC recorded presence of 170 waterbird species (85% of total waterbird species in India), including 142 migratory species (84% of total migratory waterbird species in the country) from 1409 wetlands (0.18% of the total number of wetlands in the country).

Two hundred seventy-two wetlands support 1% or more of the bio-geographic population of at least one species of waterbird and qualify as Wetlands of International Importance under criterion 6 of Ramsar Convention.

Sixty-five wetlands supported 20,000 or more waterbirds during at least one year of the assessment period. These sites qualify for designation as Wetlands of International Importance under criterion 5 of Ramsar Convention. For 13 wetlands, the counts were over 0.1 million in at least one year during 2006-2015.

Five Ramsar sites which were counted at least five times during 2006-2015, the population of Cranes, Gulls, Terns and Skimmers reported a declining trend. The population of Grebes, Pelicans, Cormorants and Darters, Herons, Egrets and Bitterns, Storks, and Jacanas had increased.

One in every five waterbird species recorded in the census, for which population status is known, is globally threatened. Of these, three are Critically Endangered (Baer's Pochard, Sociable Lapwing and Spoon-billed Sandpiper), three Endangered (Black-bellied Tern, Great Knot and Greater Adjutant), eight Vulnerable (Andaman Teal, Common Pochard, Dalmatian Pelican, Indian Skimmer, Lesser Adjutant, Marbled Teal, Sarus Crane and Woolly-necked Stork) and 19 Near Threatened species (Asian Dowitcher, Bar-tailed Godwit, Black-headed Ibis, Black-necked Stork, Black-tailed Godwit, Curlew Sandpiper, Eurasian Curlew, Eurasian Oystercatcher, Falcated Duck, Ferruginous Duck, Great Thick-knee, Lesser Flamingo, Northern Lapwing, Oriental Darter, Painted Stork, Red Knot, River Lapwing, River Tern and Spot-billed Pelican). White-bellied Heron and Siberian Crane, two Critically Endangered species, sighted during 1987-2005 period (from Assam and Rajasthan respectively) have not been reported by the AWC network in the current census.

The population of one in every four waterbird species recorded in the census, for which trends in the Central Asian Flyway are known, is declining. Out of thirty three, 20 Threatened and Near Threatened waterbird species recorded during the census have a declining population trend. Reviews of population estimates and population trends of waterbirds, especially migratory waterbirds using the Central Asian Flyway, needs urgent attention as this information is outdated or is of poor quality.

Significance of the AWC as a conservation tool can be enhanced by improving consistency of wetland coverage. During 2006-2015, counts from the states of Gujarat, Maharashtra, Kerala, Andhra Pradesh and Telangana constituted a significant proportion. The census coverage of Himalayas, north-east India and island regions is significantly lower as compared with other regions of India. Geographic coverage of the census can be enhanced by bringing in additional sites from under-represented regions of India. Building in regular waterbird census within implementation of wetland management plans and enhancing capacities of frontline staff and broadening the coordinator and volunteer network will help in strengthening the AWC programme in India.



01

INTRODUCTION



1.1 Wetlands and Waterbirds

Wetlands are the most productive and diverse ecosystems on Earth. Providing habitat for birds, both migratory and resident, is one of the best known biodiversity-linked functions of wetlands. Several factors govern the relationship between wetlands and waterbirds, key being inundation regime and quality of water; availability of food and shelter; and the presence or absence of predators. Wetlands are used by birds for feeding, roosting and breeding as well as crucial stopover sites during their annual migratory movements. These ecosystems provide food for birds in the form of plants, vertebrates (e.g. fish, frogs, snakes) and invertebrates (e.g. worms, crabs, crayfish). Some prefer the shoreline, some forage on the shallow water areas and some others feed in open deep water areas. Waterbirds are often considered as ideal indicators of the productivity and ecological condition of wetlands.

Migration remains one of the most important aspects of the avian world. Many species make regular seasonal movements, travelling thousands of kilometres to escape from harsh weather conditions and lack of food. Waterbirds are an important component of wetland landscapes. Their beauty, rich diversity, abundance and migratory habits are closely linked to many of our cultural values and social practices. Their tendency to gather together, often in spectacular concentrations, has made them a target of research and monitoring and consequently provides us with an excellent indicator of the value and health of wetland ecosystems (Wetlands International, 2012).

1.2 Asian Waterbird Census

The Asian region is home to a high diversity of waterbirds, including an increasing number of threatened species, many at risk of extinction (Wetlands International, 2012). Conservation of these species and their habitats needs to be based on quality data and recent information on their distribution and trends. To address this need, the Asian Waterbird Census (AWC) has been collating and disseminating information on waterbird counts and wetlands since 1987 to inform governments, conventions and the public. The AWC runs in parallel with other waterbird censuses carried out in Africa, Europe, Central and West Asia, the Caribbean, Central and South America under the umbrella of the International Waterbird Census (IWC). The IWC is coordinated internationally by Wetlands International (with the exception of the Caribbean and Central America), and is considered one of the largest and longest-running internationally coordinated citizen-science biodiversity monitoring programmes in the world.

The AWC in India is jointly coordinated by Bombay Natural History Society (BNHS) and Wetlands International South Asia.

The AWC currently covers 25 countries and regions of Asia and Australasia. It takes place annually during the second and third weeks of January with additional counts being provided from some countries between late November to February. The census is carried out by volunteers, interested in collecting information on waterbirds and wetlands.

Data collected by the AWC contributes to a range of local, national and flyway-scale conservation frameworks and activities including:

- species and site conservation, research programmes and campaigns to raise awareness of the importance of wetlands in many countries;
- the development of national wetland and waterbird conservation action plans and strategies (e.g. National Biodiversity Strategy and Action Plan (NBSAP));
- the Ramsar Convention on Wetlands, by identifying and monitoring Wetlands of International Importance and other wetlands;
- the Convention on Migratory Species (CMS), by monitoring the status of migratory waterbirds and their habitats;
- the Convention on Biological Diversity's goal of conservation and sustainable use of biodiversity;
- the East Asian – Australasian Flyway Partnership (EAAFP) and its Flyway Site Network and other important sites;
- the CMS's West/Central Asian Site Network for the Siberian Crane and other waterbirds;
- BirdLife International's Important Bird and Biodiversity Area (IBA) programme; and Key Biodiversity Areas (KBAs);
- IUCN/BirdLife International's globally threatened birds programme;
- Wetlands International's Waterbird Population Estimates (WPE) programme; and the studies on bird movements and relationships to avian disease (especially highly pathogenic avian influenza) transmission that affect wild birds, poultry and humans and in planning response measures.

In addition to the wide range of applications outlined above, the IWC has been extremely successful in achieving its primary objectives of:

- monitoring changes in waterbird numbers and distribution by regular, standardised counts of representative wetlands;
- providing the basis for estimates of waterbird populations (e.g. Bamford et al., 2006);
- improving knowledge of little-known waterbird species and wetland sites;
- increasing awareness of the importance of waterbirds and their wetland habitats at local, national and international levels.

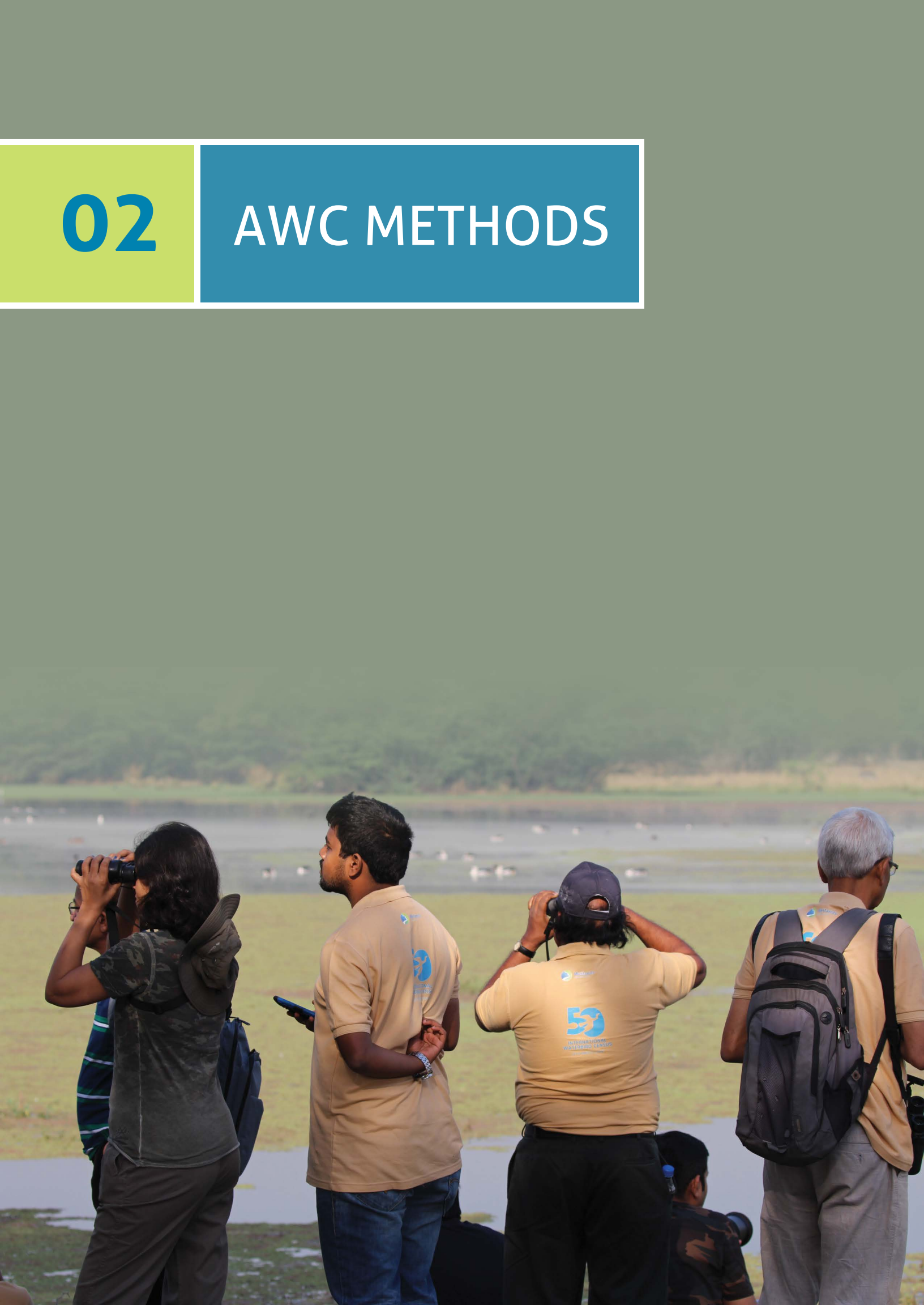
The AWC has also built and strengthened national networks of enthusiastic and dedicated volunteers and facilitated their training as an integral part of achieving its objectives.

Waterbird and wetland information shared with Wetlands International has been collated into a variety of regional summaries and overviews (van der Ven, 1987, 1988; Scott and Rose, 1989; Perennou et al., 1990; Perennou and Mundkur, 1991, 1992; Mundkur and Taylor, 1993; Perennou et al., 1994; Lopez and Mundkur, 1997; Li and Mundkur, 2004; Li et al., 2009; Mundkur et al., 2017).

This report presents a collation of January waterbird count information between 2006 and 2015 shared with Wetlands International South Asia and the Bombay Natural History Society.

02

AWC METHODS



2.1 Count period

The AWC takes place once a year, during the second and third weeks of January. However, logistical difficulties in some regions or limited volunteer capacity means that counts made at any time during January are accepted for the AWC database. In some regions, counts made between late November to February are accepted if no January data are available. It is presumed that the waterbird species population are stable in this area during this period.

2.2 Wetlands and species coverage

The AWC covers all types of wetlands used by waterbirds. The census uses the definition of wetlands as per the Ramsar Convention. The Convention defines wetlands as “areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres”.

For analysis, the census uses the classification of waterbirds as defined by the Ramsar Convention. The Ramsar Convention defines waterbirds as species of birds that are “ecologically dependent upon wetlands” and includes the following groups in this category: grebes, cormorants, pelicans, herons, egrets, storks, ibises, spoonbills, flamingos, ducks, geese & swans, cranes, rails, jacanas, shorebirds, gulls and terns (Ramsar Convention, 2016). The nomenclature of waterbird species used in this report follows taxonomic scheme of the BirdLife Checklist of the Birds of the World: Version 9 (Birdlife International, 2016).

Counts of other wetland-dependent species (including seabirds, raptors, kingfishers, wagtails and pipits) that are regularly seen in wetlands have been submitted by some regions, as several of these species depend largely on the food resources provided by these habitats. This will give a better indication of the wider importance of these sites, even though it is expected that the diversity and abundance of such species are not yet adequately recorded by participants across the regions. Although this information is stored in the International Waterbird Census database, it has not been considered for analysis in the current report.

Species that are difficult to identify with certainty in the non-breeding plumage may be reported incorrectly. For this reason, besides species counts, the report also provides counts of unidentified species of a group (for e.g. unidentified terns, gulls, herons, ducks, geese, ibises, storks), and as well as unidentified waterbirds.

Wetlands International relies on its network of coordinators to review all species identification and unusual counts, although it is impossible to verify all the observations submitted.

2.3 Conservation status

The report follows IUCN Red List Categories (IUCN 2016): Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CR), Endangered (EN), Vulnerable (VU), and Near Threatened (NT).

2.4 Census coordination

The nationwide network of AWC data collectors are coordinated and supported locally by volunteer coordinators and organisations which are responsible for one or more states and union territories. See Annex 1 for a list of coordinators during 2006-2015 and www.wetlands.org/our-network/iwccoordinators for contact details of current coordinators. Also, see Annex 2 for the state wise list of participants during the census period of 2006-2015.

2.5 Data analysis

The census data reported herein is collected through a structured form used for reporting count estimates. The data is sent to Wetlands International South Asia in a mix of paper and electronic formats. Each count estimate is handled in the following manner:

- Coding the available electronic and paper count data into the Asian Waterbird Census Database of Wetlands International South Asia.
- Organizing the data according to sites and species. This included adding information on geographical location and standardizing the site names.
- Checking data consistency, especially for sites reporting more than 1% of the biogeographical population, and species of high conservation significance.
- Analysing the data using Excel spreadsheets.
- Preparing data charts, tables and graphs in line with the stipulated objectives.

The census reports were referenced with previous records and published reports of Wetlands International, IUCN, BirdLife International and other organisations. Assessment of 1% biogeographic population was done by referring to the electronic database of '5th Edition of Waterbird Population Estimates' (Wetlands International, 2012) available at (<http://wpe.wetlands.org/>).

2.6 Data validation

As the AWC is a voluntary programme, rigorous data quality control and comprehensive coverage is intended, however hard to achieve on an annual basis, especially in some regions. Consistency in site coverage is promoted, though not achieved in all counts. The census uses a two step validation of all counts. At first level, the state level coordinators validate the counts submitted by individual data collector. At second level, the submitted counts are revalidated by national coordinators and staff at Wetlands International Global Office and Bombay Natural History Society.

03

RESULTS



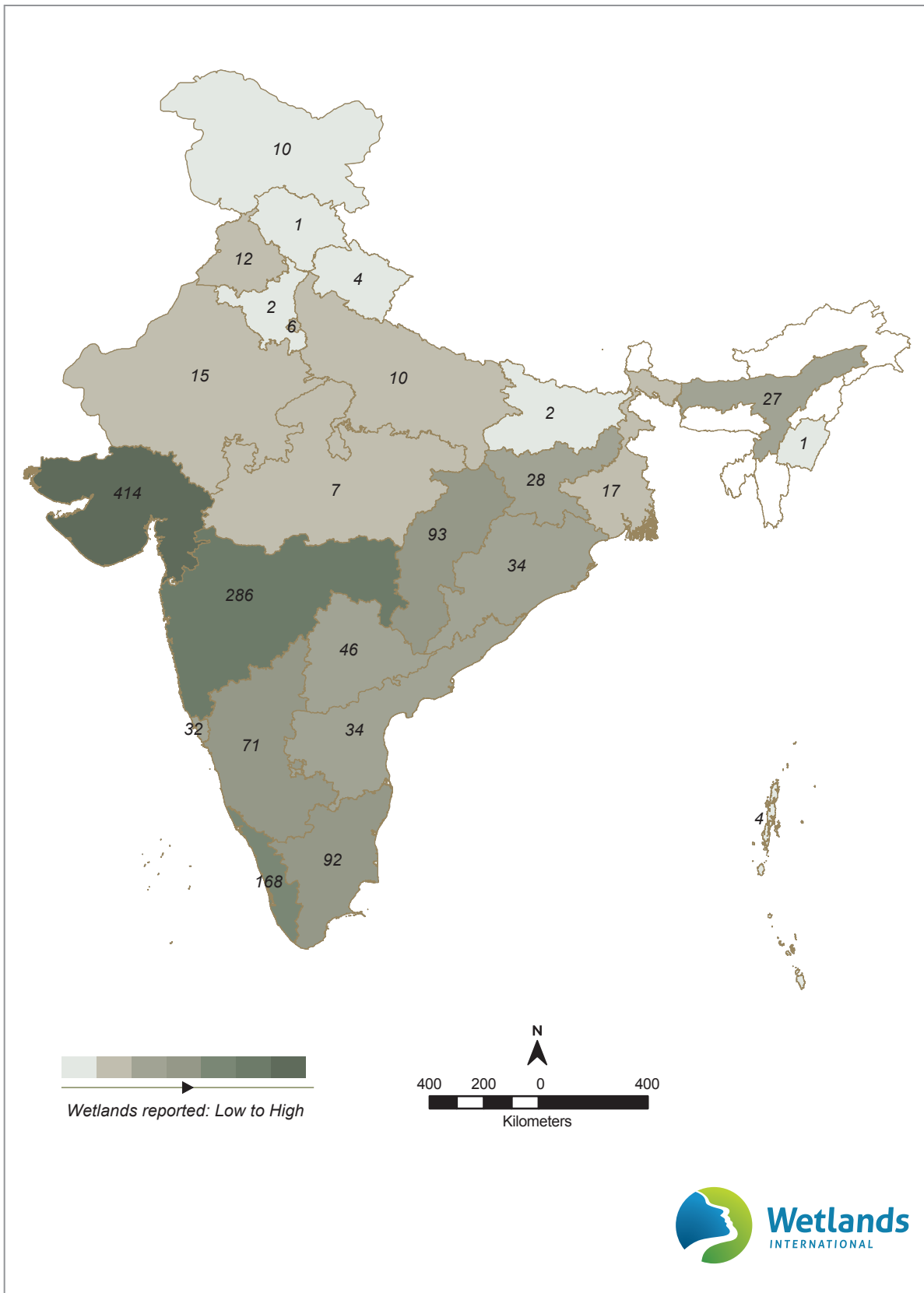
3.1 Coverage of wetlands

During 2006-2015, a total 1,409 wetlands from 26 States and Union Territories were counted at least once. Maximum number of sites counted was during 2014, whereas minimum sites were reported during 2008. Counts from the states of Gujarat, Maharashtra, Kerala, Andhra Pradesh and Telangana constituted a major proportion. States like Bihar, Haryana, Jammu and Kashmir, Punjab and Rajasthan which are known to have several important waterbird congregation sites, have submitted limited number of counts during this reporting period, and therefore may lead to an under representation of waterbird numbers. State-wise number of wetlands covered in the census is given in the Table 3.1 and Map 3.1.

Table 3.1. Number of wetlands reported during AWC 2006-2015

States and UTs #	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Andaman and Nicobar Islands (2,553)						4				
Andhra Pradesh Telangana (38,514)	2	12 10	1 3	4 2	3 6	8 9	14 5	9 18	19 22	22 39
Assam (11,178)	4	5				6	21	1	2	
Bihar (21,998)			1	1	1				1	
Chhattisgarh (35,534)	6	16	4	8	12	27	7	14	24	19
Delhi (399)	2	2	2	3	3*	3	3	3	3	4
Goa (550)	9	12				12		7	5	23
Gujarat (23,891)	99	64	78	109	123	66	91	51	63	84
Haryana (11,970)		1							1	
Himachal Pradesh (641)	1	1							1	1
Jammu and Kashmir (3,651)								3		
Jharkhand (15,690)				2	2	2	2	2	12**	25
Karnataka (25,276)	2	20				6	10	3	49	1
Kerala (4,354)	71	54	6	10	7	9	13	17	110	52
Madhya Pradesh (62,618)		2		1					2	3
Maharashtra (44,714)	25	36	24	1	46	124	97	47	18	6
Manipur (708)						1	1	1	1	1
Odisha (78,440)	5	32	1	1	2	2	2	2	2	2
Puducherry (259)	2	2		1		2	3		3	
Punjab (6,430)		9					1	1	5	5
Rajasthan (46,748)	6								3	8
Tamil Nadu (42,978)	22	15		6	27	9	7		32	6
Uttar Pradesh (1,21,242)		3				3	3			4
Uttarakhand (994)	3	3				4		1	1	1
West Bengal (1,47,826)	5	8					1		4	4
Total	264	307	120	149	232	297	281	180	384	312

Figures in bracket indicate the total number of wetlands as reported in NWIA



Map 3.1. State-wise number of wetlands reported during AWC 2006-2015

During the reporting period (2006-2015), wetlands such as Chhatardi Tank (Gujarat), Hamirsar Tank (Gujarat), Chempallikundu (Kerala), Ezhome (Kerala), Pana Vayal (Kerala), Vembanad (Kerala) and Hirakud Reservoir (Odisha) were consistently covered. While 475 wetlands were covered more than once, and 74 wetlands were covered at least 5 times. State-wise consistency in wetland coverage are given in the Table 3.2.

Table 3.2. Consistency of wetland coverage across states during AWC 2006-2015

States	Frequency of wetland coverage (x times)									
	1	2	3	4	5	6	7	8	9	10
Andaman and Nicobar Islands	4									
Andhra Pradesh	11	9	8	1	1		1	2	1	
Assam	20	3	1	3						
Bihar	1		1							
Chhattisgarh	74	9	2	5		2	1			
Delhi		2	1		1		1		1	1
Goa	17	5	3	3	4					
Gujarat	237	95	34	16	4	11	10	7	1	2
Haryana	2									
Himachal Pradesh				1						
Jammu and Kashmir	3									
Jharkhand	26				2					
Karnataka	52	10	2	2	1					
Kerala	86	37	24	13	2	1			1	4
Madhya Pradesh	6	1								
Maharashtra	289	32	12	6		1				
Manipur					1					
Odisha	31	1						1		1
Puducherry		1			1	1				
Punjab	6	3	3							
Rajasthan	13	2								
Tamil Nadu	70	15	5	2						
Telangana	23	5	7	4	2	2	2	1		
Uttar Pradesh	7	3								
Uttarakhand			3	1						
West Bengal	12	5								
Total	990	238	106	57	19	18	15	11	3	8

3.2 Trends in counts

One seventy waterbird species of 21 families were reported during AWC 2006-2015 (Annex 6). One hundred and forty two of these are classed as migratory waterbirds as per BirdLife International database (BirdLife International, 2019).

The total number of waterbirds reported in a year ranged between 0.77 million to 23.63 million (Table 3.3). The highest number of waterbirds were reported from Odisha and Gujarat.

Table 3.3. Total number of waterbirds reported during AWC 2006-2015 (number of wetlands covered in brackets)

States	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Andaman and Nicobar Islands						1,078 (4)				
Andhra Pradesh	495 (2)	85,240 (12)	1,84,509 (1)	1,06,308 (4)	59,294 (3)	2,15,468 (8)	4,05,279 (14)	2,20,485 (9)	5,34,921 (19)	2,95,091 (21)
Assam	1,686 (4)	4,107 (5)				11,276 (6)	75,737 (21)	30 (1)	1,736 (2)	32,841 (2)
Bihar			1,044 (1)	2,706 (1)	2,584 (1)				2,400 (1)	
Chhattisgarh	1,092 (6)	8,316 (16)	4,186 (4)	4,195 (8)	8,513 (12)	9,704 (27)	1,935 (7)	6,877 (14)	15,594 (24)	13,926 (19)
Delhi	4,834 (2)	15,263 (2)	5,022 (2)	4,922 (3)	276 (3*)	8,681 (3)	8,186 (3)	7,550 (3)	6,612 (3)	7,460 (4)
Goa	95,585 (9)	98,114 (12)				50,899 (12)		20,361 (7)	11,250 (5)	7,417 (23)
Gujarat	5,49,283 (99)	1,56,641 (64)	6,04,799 (78)	5,21,232 (109)	6,84,827 (123)	3,85,824 (66)	2,45,020 (91)	2,95,757 (51)	4,31,862 (62)	6,23,350 (84)
Haryana		277 (1)							260 (1)	
Himachal Pradesh	85,649 (1)	1,06,120 (1)							1,25,131 (1)	1,34,094 (1)
Jammu and Kashmir								7,506 (3)		
Jharkhand				2,757 (2)	4,102 (2)	4,033 (2)	5,967 (2)	4,534 (2)	8,931 (12**)	70,044 (25)
Karnataka	589 (2)	23,895 (20)				15,284 (6)	22,948 (9)	346 (3)	20,039 (54)	
Kerala	89,352 (71)	1,11,351 (54)	52,582 (6)	57,548 (10)	53,584 (7)	54,704 (9)	63,964 (14)	64,418 (17)	2,13,213 (100)	1,37,631 (52)
Madhya Pradesh		919 (2)		903 (1)					4,424 (2)	4,573 (3)
Maharashtra	42,831 (25)	80,921 (37)	13,428 (24)	926 (1)	1,855 (17)	59,705 (108)	1,00,403 (93)	26,489 (39)	54,519 (18)	19,802 (6)
Manipur						13,654 (1)	26,220 (1)	34,356 (1)	32,855 (1)	50,725 (1)
Odisha	7,36,944 (5)	9,94,473 (32)	22,411 (1)	24,651 (1)	9,23,710 (2)	8,07,661 (2)	9,29,482 (2)	9,41,053 (2)	7,71,421 (2)	8,02,009 (2)
Puducherry	1,136 (2)	5,762 (2)		1,656 (1)		5,065 (2)	3,111 (3)		4,907 (3)	
Punjab		62,622 (9)					2,515 (1)	67,672 (1)	19,183 (5)	20,355 (5)
Rajasthan	9,673 (6)								5,333 (3)	22,228 (8)
Tamil Nadu	16,297 (23)	31,160 (15)		34,070 (5)	5,52,596 (27)	48,100 (9)	7,497 (7)		57,154 (32)	4,916 (6)
Telangana		14,093 (10)	23,930 (3)	9,481 (2)	7,575 (6)	15,350 (9)	4,767 (5)	30,874 (18)	15,304 (22)	64,267 (39)
Uttar Pradesh		27,069 (3)				63,545 (3)	42,361 (3)			11,818 (4)
Uttarakhand	6,115 (3)	6,348 (3)				9,767 (4)		3,955 (1)	4,566 (1)	5,795 (1)
West Bengal	1,670 (5)	19,240 (8)					8,033 (1)		21,451 (4)	27,477 (4)
Total	16,54,413	18,51,931	9,15,821	7,71,355	22,98,916	17,79,798	19,53,425	17,32,263	23,63,346	23,56,511

(* 3 sites were reported, but data represents one site only; ** cumulative data was reported for 12 sites)

The abundance pattern of waterbird species shows that maximum number of individuals of Northern Pintail, Gadwall and Common Coot were recorded during 2012, 2007 and 2006 respectively (Table 3.3).

Table 3.4. Top nine abundant waterbird species reported during the AWC India 2006-2015

Waterbird species	Maximum number recorded	Year	Total wetlands
Northern Pintail	4,49,586	2012	84
Gadwall	2,23,056	2007	70
Common Coot	1,99,800	2006	130
Eurasian Wigeon	1,88,889	2015	62
Demoiselle Crane	1,47,209	2010	39
Lesser Whistling-duck	1,31,861	2012	81
Northern Shoveler	1,22,256	2006	83
Lesser Flamingo	1,13,348	2010	29
Black-tailed Godwit	1,13,001	2011	30

Trends in waterbird population was estimated for sites having coverage frequency of six years and more. Fifty-five wetlands from nine states met the category. Figure 3.1 indicates an increasing trend from these sites. Figure 3.2 indicates the trend in waterbird population reported from all counted wetlands.

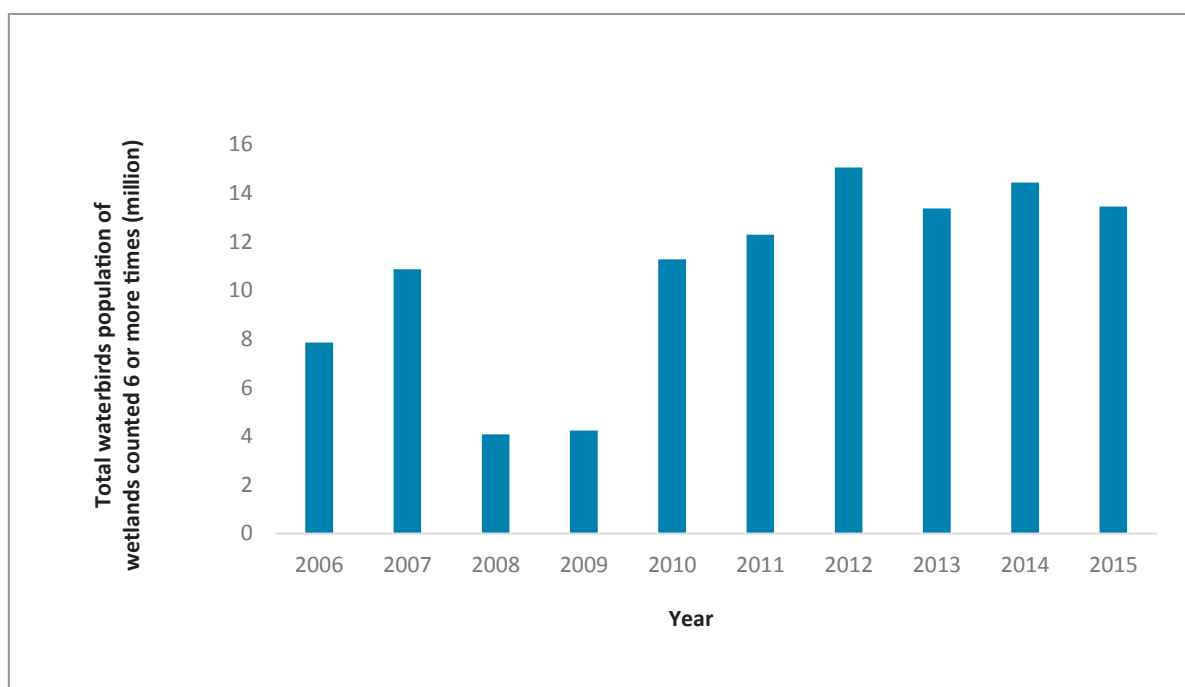


Figure 3.1. Trend in waterbird population from wetlands which were recorded six or more times during AWC 2006-2015

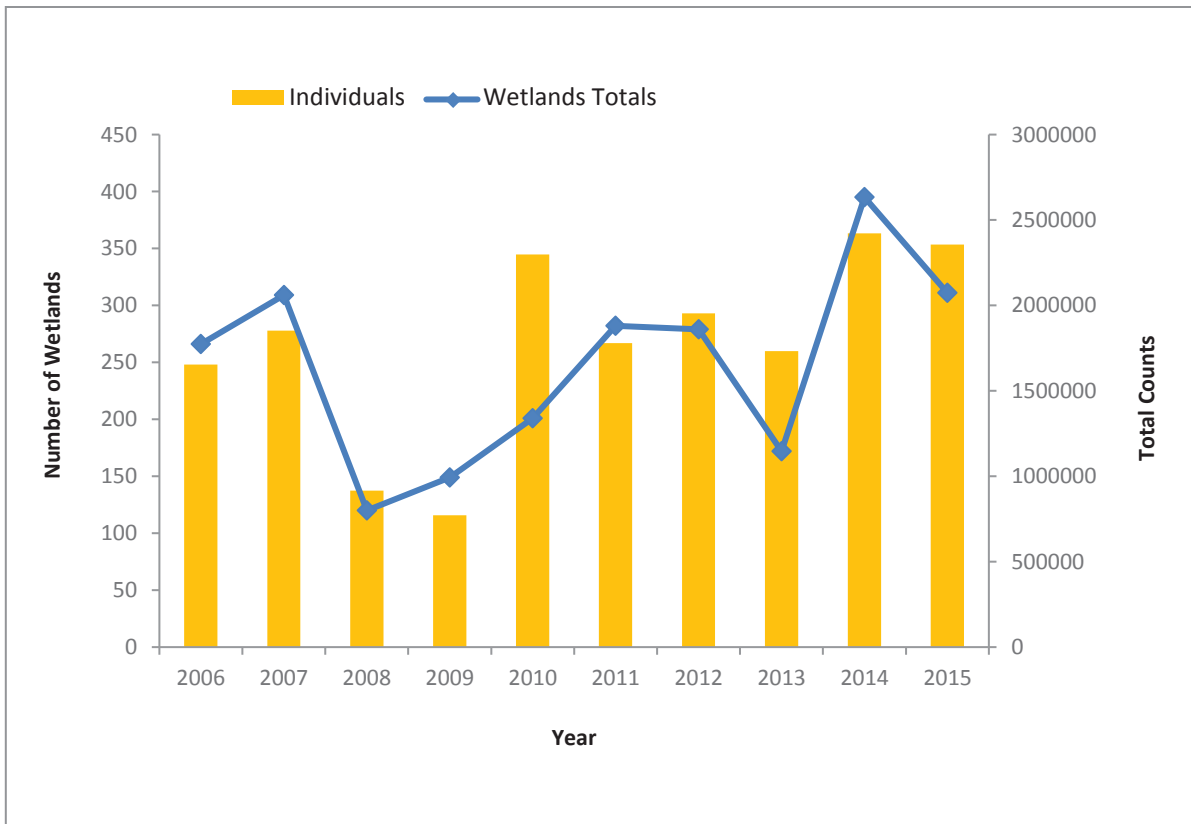


Figure 3.2. Wetlands covered and total waterbird numbers reported during AWC 2006-2015

3.3 Coverage of Ramsar Sites, Protected Areas and Important Bird Areas

During 2006-2015, several wetlands with special status were covered at least once. These included 18 Ramsar sites, 2 UNESCO World Heritage Sites, 1 UNESCO Biosphere Reserve, 74 Important Bird Areas, and 81 Protected Areas (Table 3.5).

Table 3. 5. Wetlands with special status surveyed during AWC 2006-2015

States and UTs	AWC Sites	Ramsar Sites (27)	UNESCO World Heritage Sites (37)	UNESCO Biosphere Reserve (11)	IBAs (564)	Protected Areas (870)
Andaman and Nicobar Islands	4					
Andhra Pradesh	34	1			5	5
Assam	27	1	1		7	4
Bihar	2				2	1
Chhattisgarh	93					3
Delhi	6				1	1
Goa	32				1	
Gujarat	416	1			6	6
Haryana	2				1	1
Himachal Pradesh	1	1			1	1
Jammu and Kashmir	3	1			1	2
Jharkhand	28				1	2
Karnataka	68				8	4
Kerala	168	3			2	4
Madhya Pradesh	7	1			1	2
Maharashtra	286				4	5
Manipur	1	1			1	
Odisha	34	2			2	3
Puducherry	3				2	1
Punjab	12	3			3	4
Rajasthan	15	2	1		4	2
Tamil Nadu	92	1		1	14	17
Telangana	46				1	3
Uttar Pradesh	10				5	6
Uttarakhand	4				1	1
West Bengal	17					3
Total	1,411	18	2	1	74	81

Note: Number of special status sites as on November 2019

3.4 Trends of waterbird groups in select Ramsar Sites

During 2006-2015, five Ramsar sites namely Chilika (Odisha), Vembanad-Kol (Kerala), Kolleru (Andhra Pradesh), Loktak (Manipur), and Ashtamudi (Kerala) were consistently covered for at least five years. The population trend of Cranes, Gulls, Terns and Skimmers has been reported as declining. While the population trend of Grebes, Pelicans, Cormorants and Darters, Herons, Egrets and Bitterns, Storks, Finfoots and Jacanas have increased. As an example, population trend of Pelicans and Ibises and Spoonbills is presented in Figure 3.3 (A) and Figure 3.3 (B) respectively.

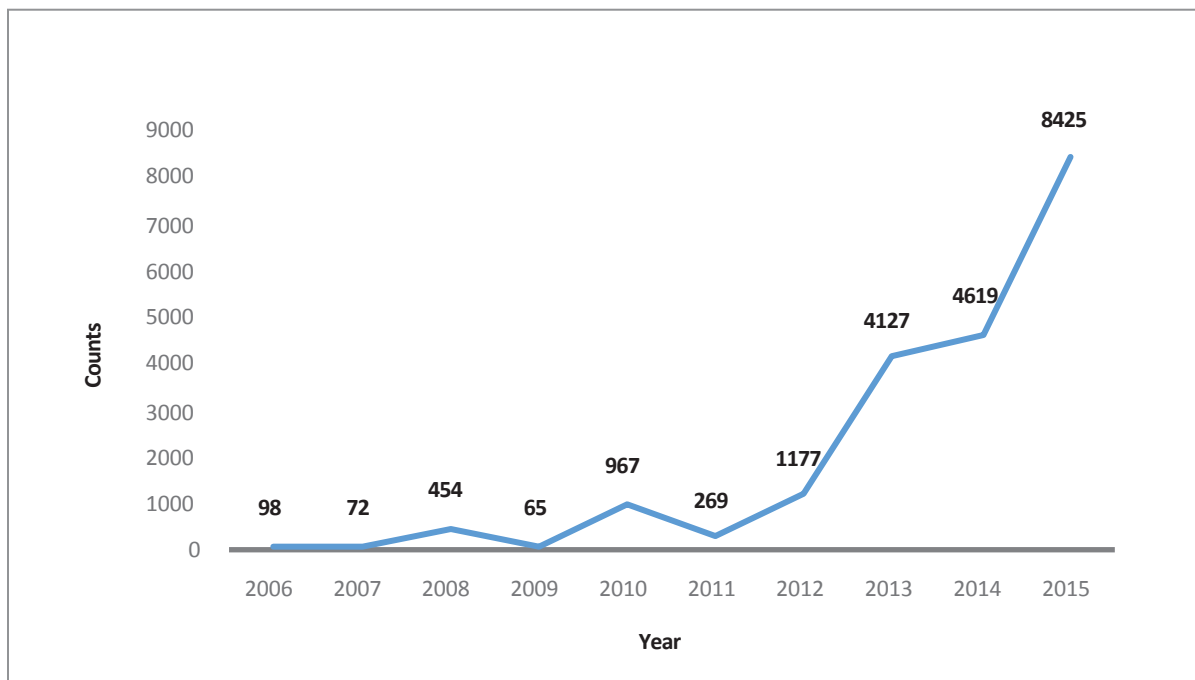


Figure 3.3. A. Population trend of Pelicans from select Ramsar sites reported during AWC 2006-2015

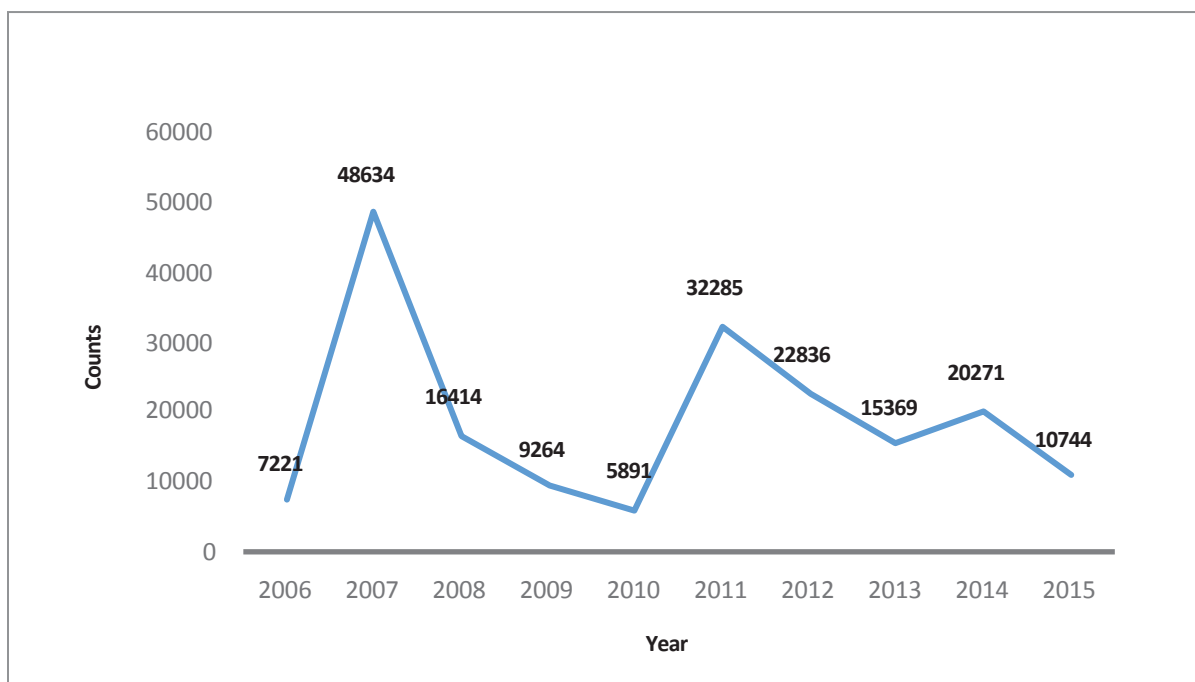


Figure 3.3. B. Population trend of Ibises and Spoonbills from select Ramsar sites reported during AWC 2006-2015

3.5 Wetlands supporting 1% bio-geographic population of at least one waterbird species

According to criterion 6 of the Ramsar Convention, any wetland that regularly supports 1% of the individuals in a biogeographic population (or sub species) of one waterbird species qualifies as an internationally important wetland. During the census of 2006-2015, a total of 272 wetlands belonging to 25 states/UTs were reported to meet the criterion (Figure 3.4 and Annex 3).

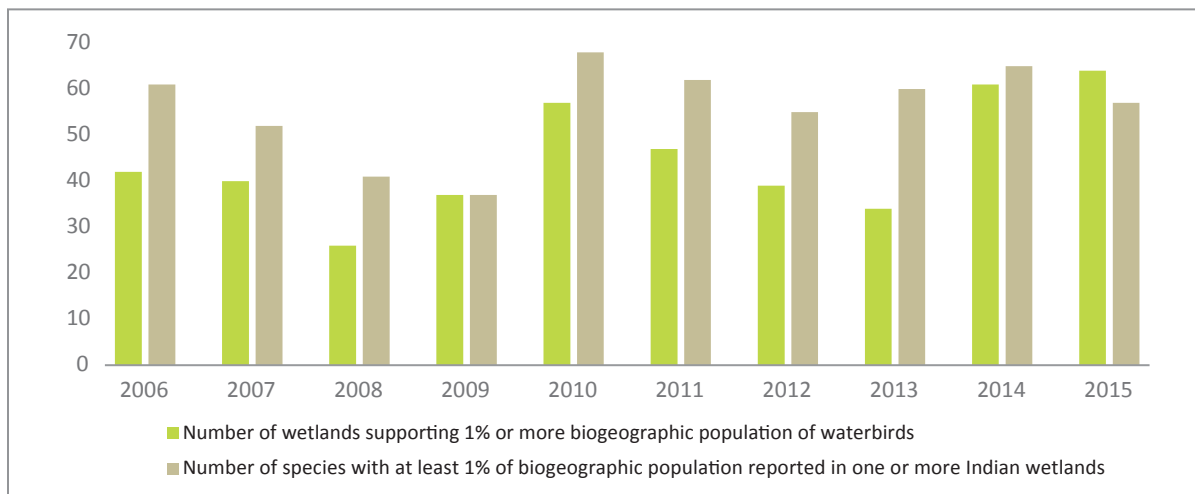


Figure 3.4. Wetlands supporting 1% bio-geographic population of at least one waterbird species during AWC 2006-2015

3.6 Wetlands supporting 20,000 or more waterbirds

According to Ramsar Convention criterion 5, a site is recognised as being of international conservation significance if it regularly supports 20,000 or more waterbirds. Of the total 1,409 wetlands reported to the AWC 2006-2015, 65 wetlands support 20,000 or more waterbirds (Figure 3.5 and Map 3.2). For 13 wetlands, the counts were in excess of 100,000 waterbirds (Map 3.2 and Annex 5). Locations of wetlands supporting 1% bio-geographic population of at least one waterbird species reported during AWC 2006-2015 are shown in Map 3.3.

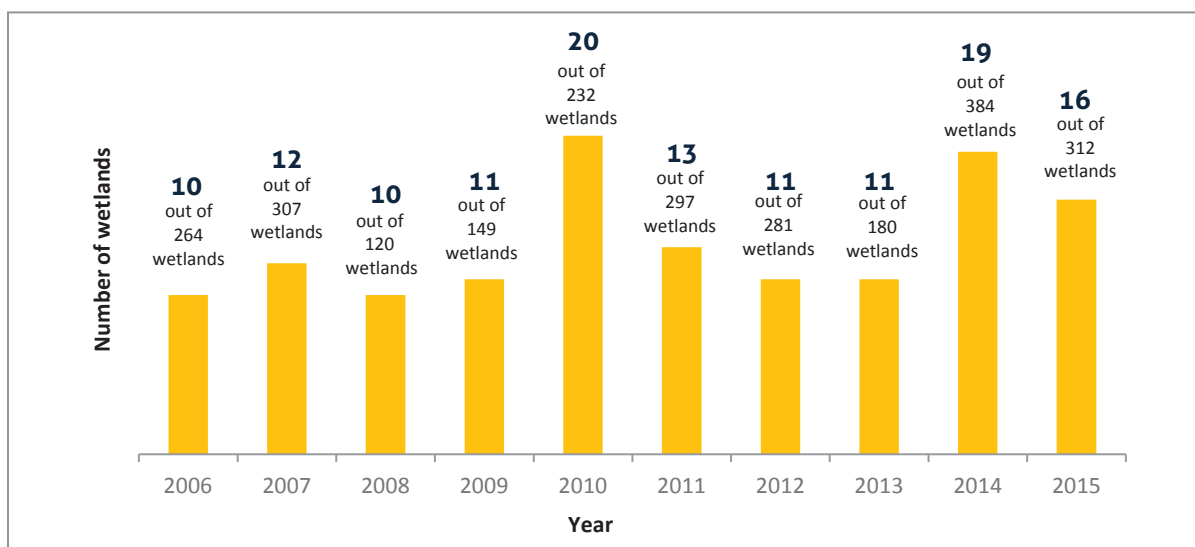
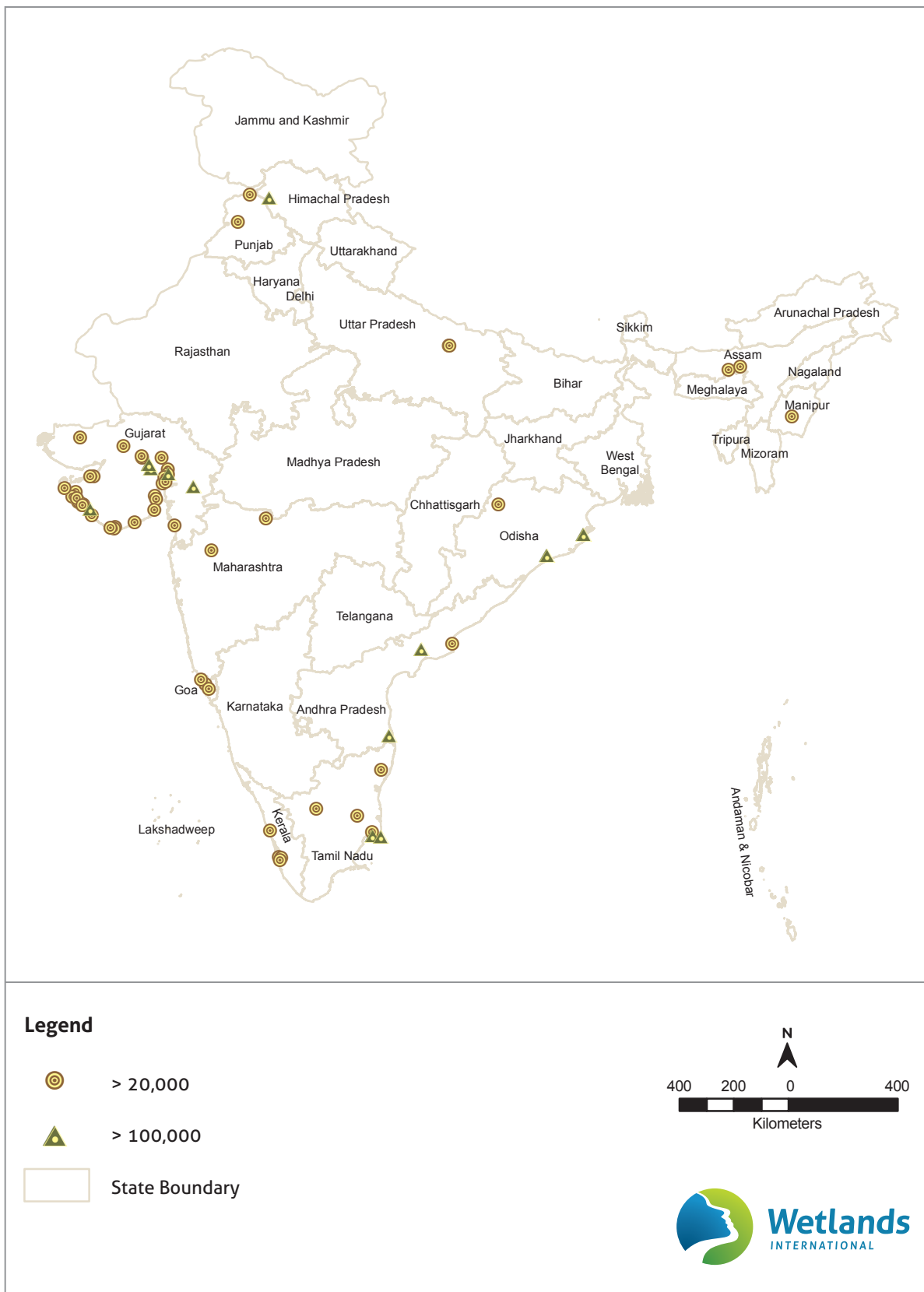
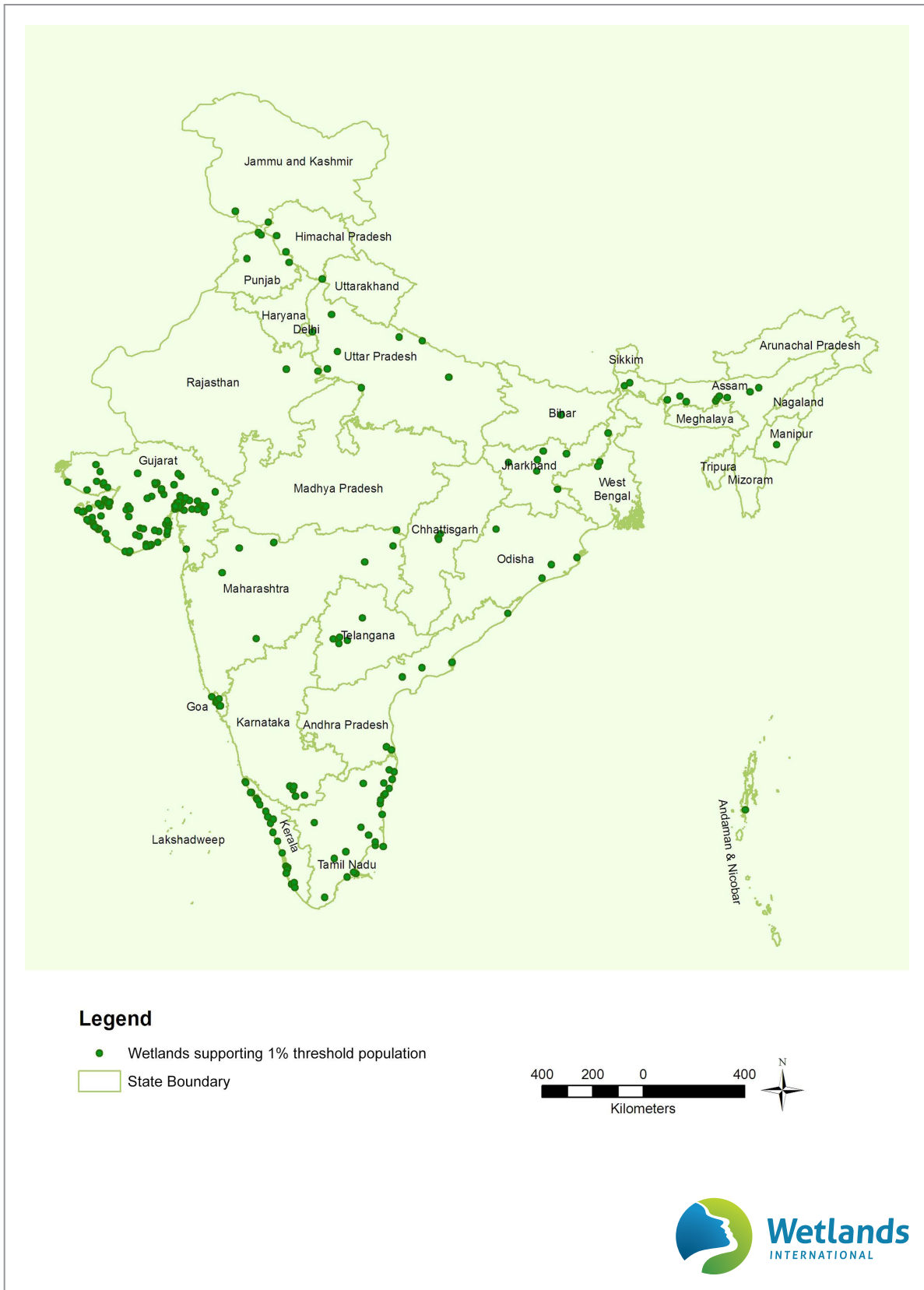


Figure 3.5. Wetlands supporting 20,000 or more waterbirds during AWC 2006-2015



Map 3.2. Wetlands supporting > 20,000 and > 100,000 waterbirds during AWC 2006-2015



Map 3.3. Wetlands supporting 1% bio-geographic population of at least one waterbird species reported during AWC 2006-2015 (235 out of 272 wetlands are displayed in this map)

3.7 Conservation status of waterbirds

One in every five waterbird species, for which population status is known, globally threatened. Of these, three are Critically Endangered (Baer’s Pochard, Sociable Lapwing and Spoon-billed Sandpiper), three Endangered (Black-bellied Tern, Great Knot and Greater Adjutant), eight Vulnerable (Andaman Teal, Common Pochard, Dalmatian Pelican, Indian Skimmer, Lesser Adjutant, Marbled Teal, Sarus Crane and Woolly-necked Stork) and 19 Near Threatened species (Asian Dowitcher, Bar-tailed Godwit, Black-headed Ibis, Black-necked Stork, Black-tailed Godwit, Curlew Sandpiper, Eurasian Curlew, Eurasian Oystercatcher, Falcated Duck, Ferruginous Duck, Great Thick-knee, Lesser Flamingo, Northern Lapwing, Oriental Darter, Painted Stork, Red Knot, River Lapwing, River Tern and Spot-billed Pelican) (Figure 3.6). The globally threatened waterbird species reported during the AWC 2006-2015 have been listed in Table 3.6 as per the IUCN Red List database 2016. More detailed information is presented as Annex 7 and distribution indicated in Map 3.4.

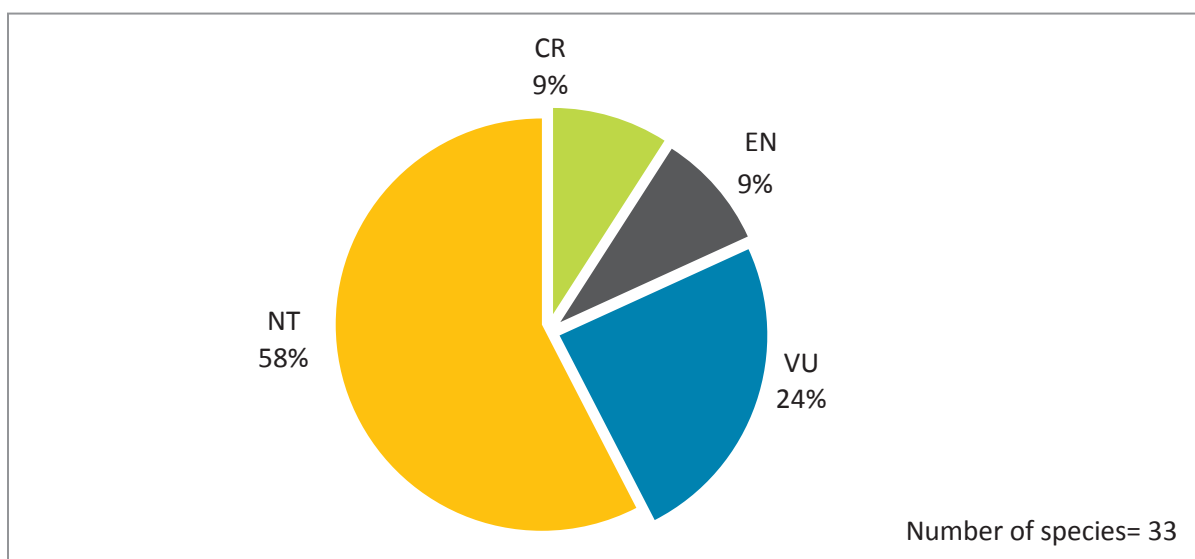


Figure 3.6. Conservation status of waterbird species reported during AWC 2006-2015 (IUCN Red List status - 2016)

Table 3.6. Globally threatened waterbird species reported during AWC 2006-2015

Species	IUCN Status	Number of Sites Reported
Dalmatian Pelican	VU	104
Woolly-necked Stork	VU	216
Lesser Adjutant	VU	40
Greater Adjutant	EN	7
Andaman Teal	VU	1
Marbled Teal	VU	1
Common Pochard	VU	350
Baer's Pochard	CR	10
Sarus Crane	VU	70
Sociable Lapwing	CR	2
Great Knot	EN	10
Spoon-billed Sandpiper	CR	2
Black-bellied Tern	EN	40
Indian Skimmer	VU	15

The population trends were collated using the Waterbird Population Estimates online database. The analysis indicates, in the Central Asian Flyway region, of the known trends in waterbird population, 53 % of the waterbird species shows a decreasing trend. Thus, nearly one out of four species reported in Indian wetlands has a decreasing population trend (Figure 3.7). Of the 33 threatened and near threatened species, 61 % (20 species) show decreasing population trend.

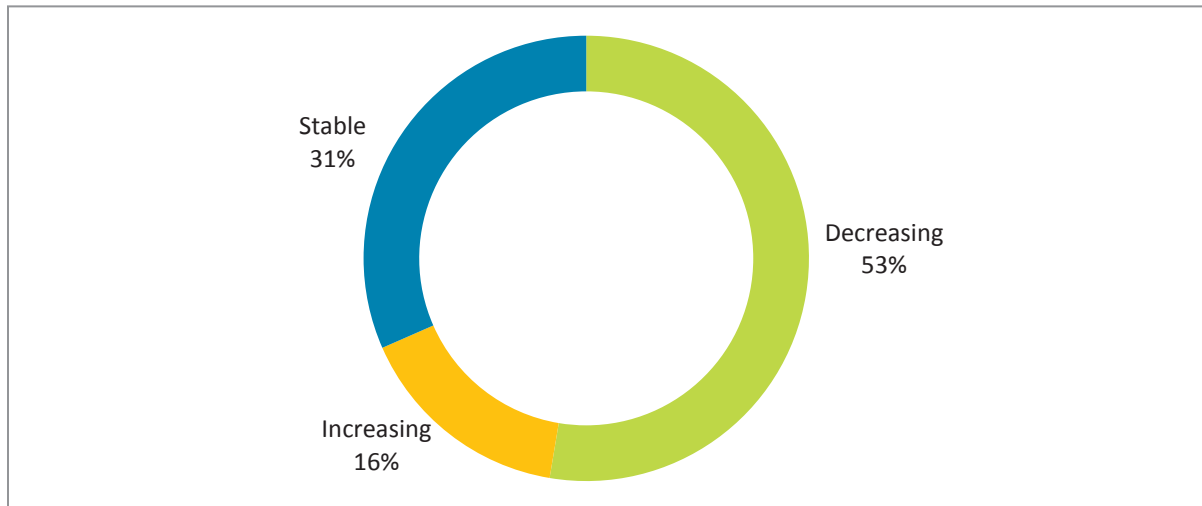
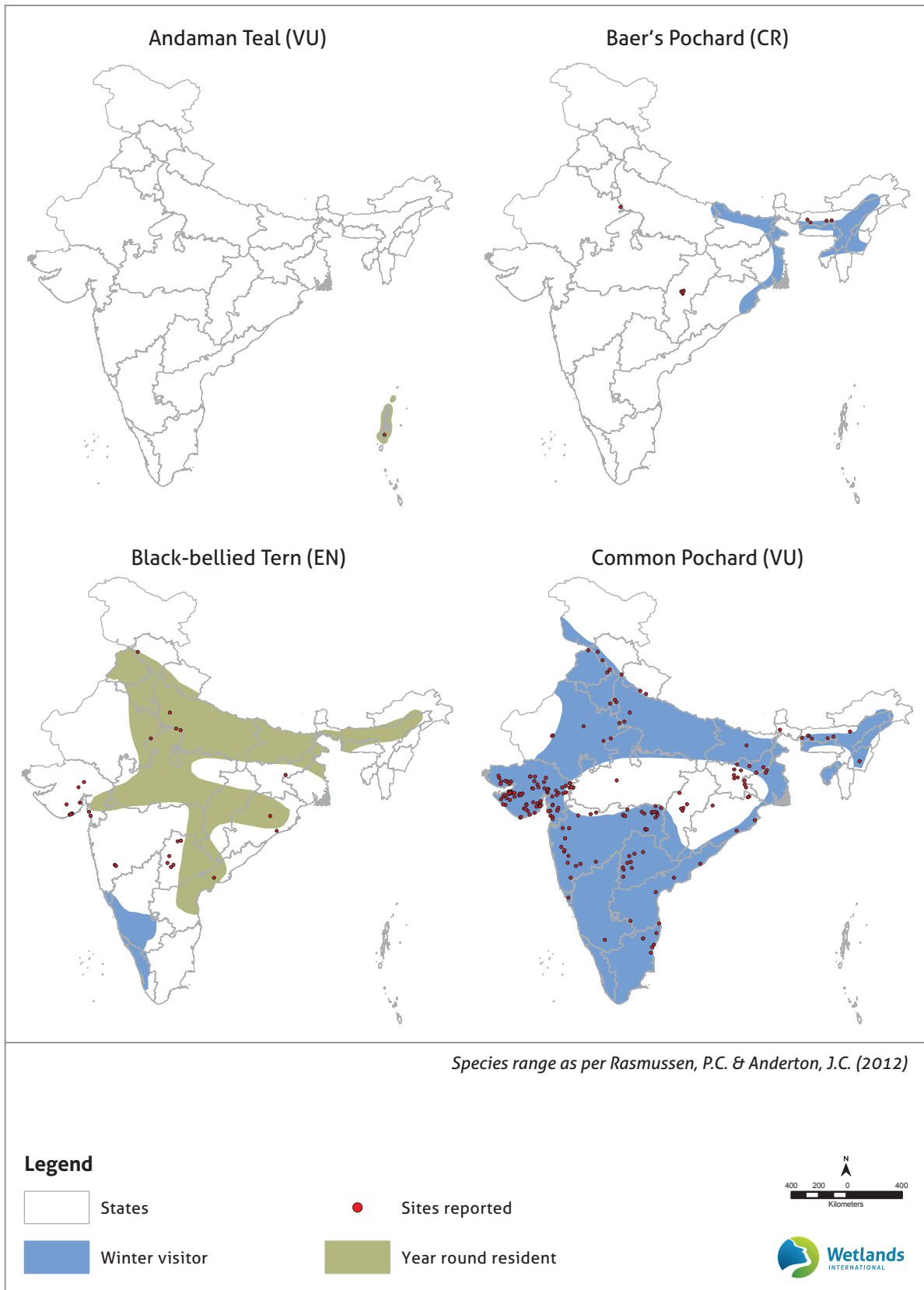
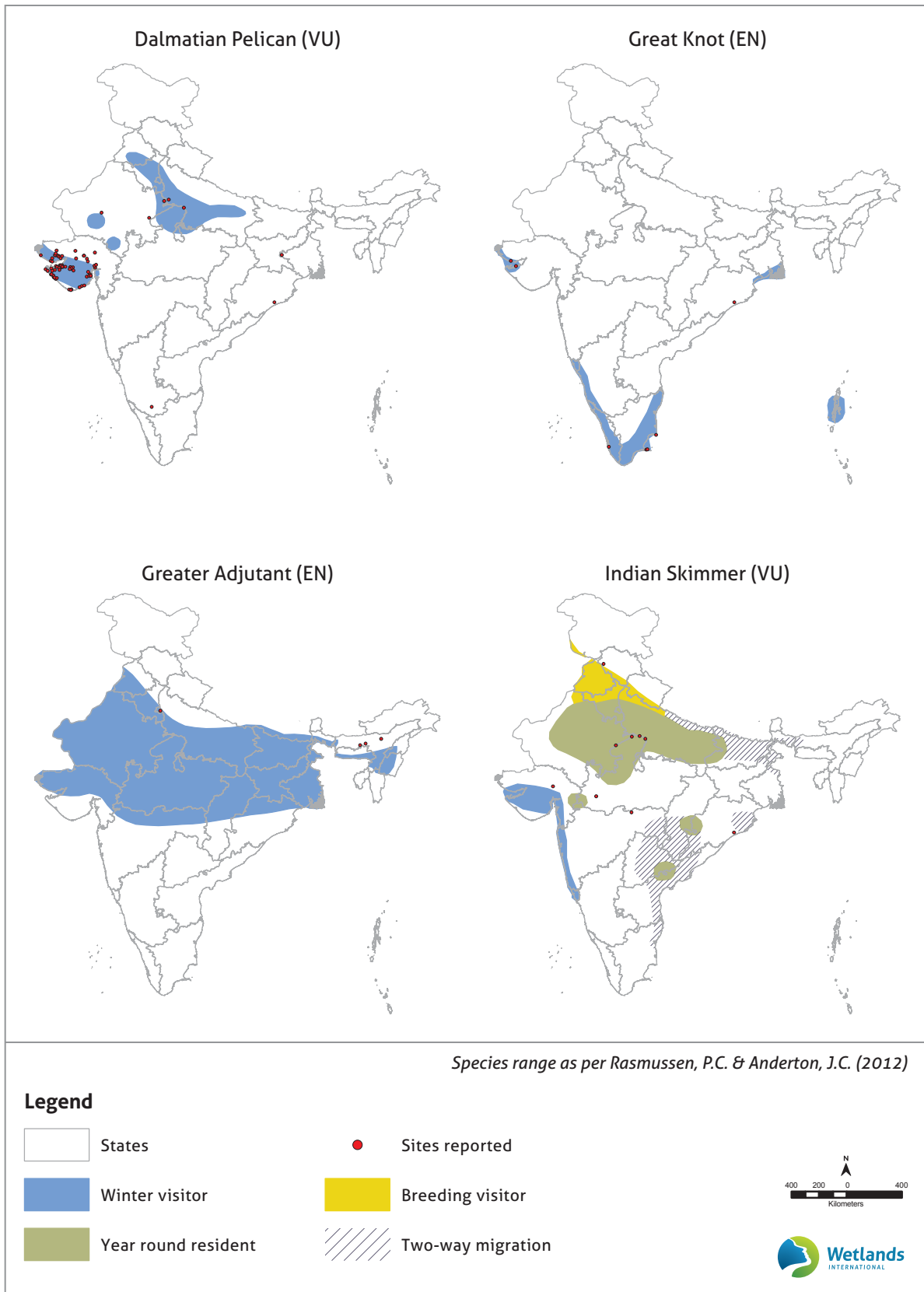


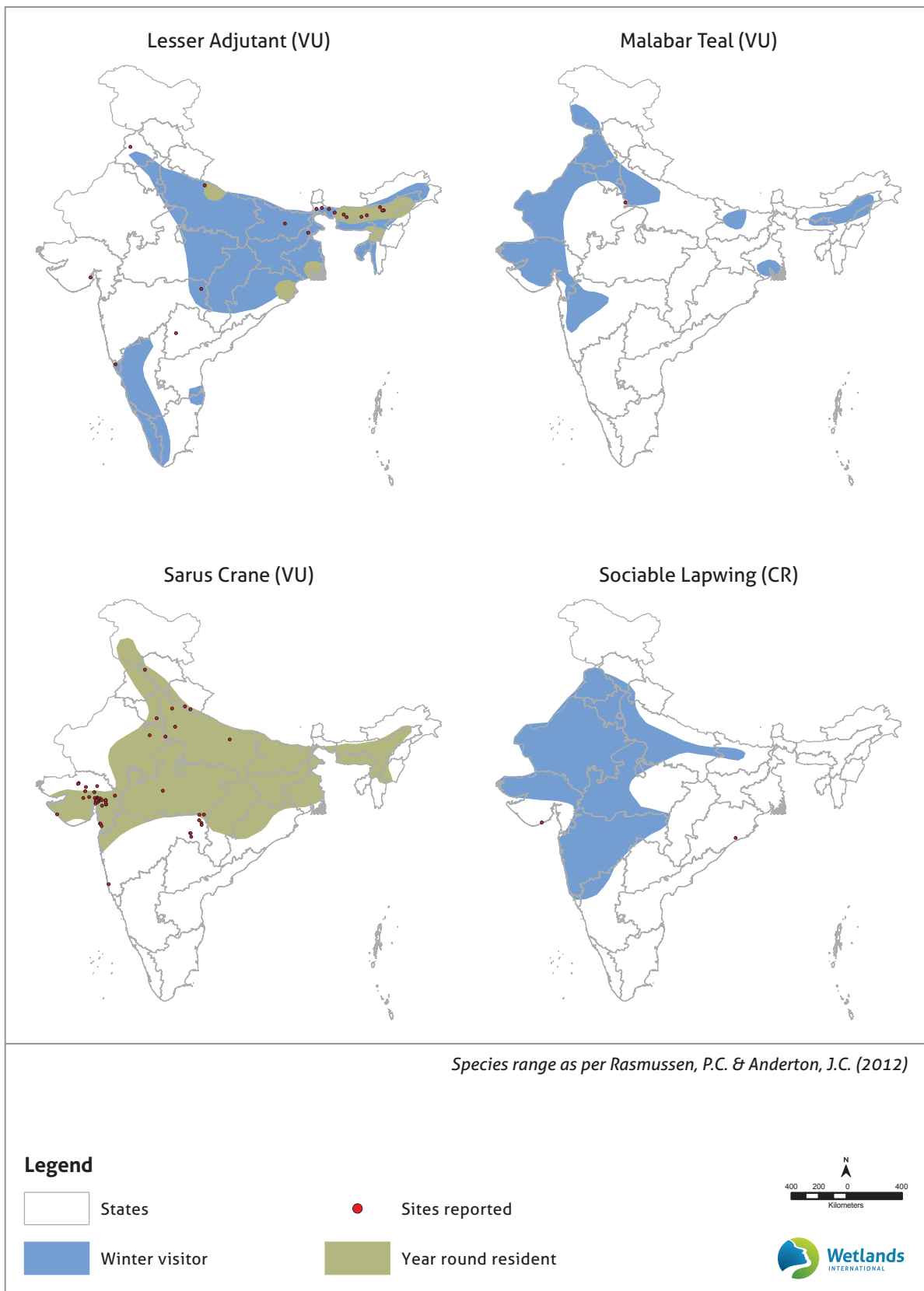
Figure 3.7. Status of waterbird population trends in India reported during AWC 2006-2015



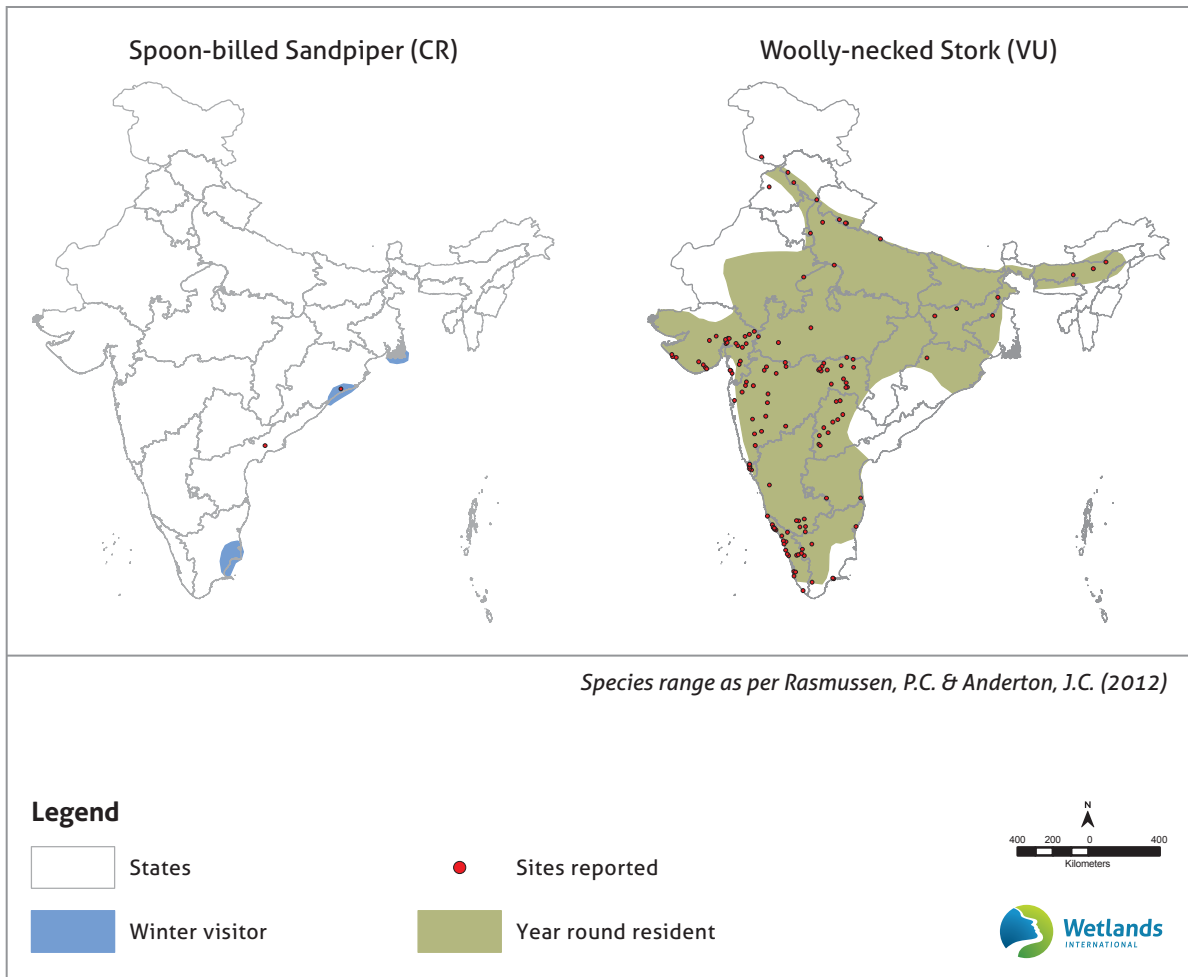
Map 3.4. A. Distribution of waterbirds of high conservation significance recorded during AWC 2006-2015 (few sites are missing due to non-availability of correct coordinates)



Map 3.4. B. Distribution of waterbirds of high conservation significance recorded during AWC 2006-2015 (few sites are missing due to non-availability of correct coordinates)



Map 3.4. C. Distribution of waterbirds of high conservation significance recorded during AWC 2006-2015 (few sites are missing due to non-availability of correct coordinates)



Map 3.4. D. Distribution of waterbirds of high conservation significance recorded during AWC 2006-2015 (few sites are missing due to non-availability of correct coordinates)

04

CONCLUSIONS



Indian wetlands, as per BirdLife International, serve as habitats for 202 waterbird species of which 165 are migratory (BirdLife International, 2019). During the 2006-2015 period, the AWC has recorded presence of 170 waterbird species (85% of total waterbird species in India), including 142 migratory species (84% of total migratory waterbird species in India) from 1409 wetlands (0.18% of the total number of wetlands in the country).

Notably, during 1987 – 2007 period, the census had recorded the presence of 170 waterbird species from 3,296 wetlands (Li et al., 2009). The maximum number of individuals counted during 2006-2015 period (2.4 million) compares well with the 1987-2007 period (2.9 million), despite a reduction in the number of wetlands counted by half.

The abundance patterns recorded during 2006-2015 are mostly similar to that in the 1987-2007 synthesis, except for the place of Tufted Duck and Garganey being taken by Black-tailed Godwit and Demoiselle Crane in the list of nine most abundant species. White-bellied heron and Siberian Crane, two Critically Endangered species globally, sighted during 1987-2005 period (from Assam and Rajasthan respectively), have not been sighted by the AWC network after that. There have been recent records of sighting of White-bellied Heron in Arunachal Pradesh.

Wetlands highly significant to waterbirds, having counts over 0.1 million individuals at least in one year deserve special conservation attention. The list of 13 wetlands having such high congregations during 2006-2015 period excludes Hirakud reservoir (Odisha), Thane Creek (Maharashtra), Thol (Gujarat), and Kole (Kerala) which had similar counts at least once during 1987-2004. Amipur Dam and Shil reservoir (Gujarat), Point Calimere Sanctuary and Muthupet Lagoon (Tamil Nadu) have been placed under this category during 2006-2015.

Results of the census also indicate a considerable scope for expanding the current network of wetlands, which can be designated as Ramsar Sites on basis of Criteria 5 (site regularly supports 20,000 or more waterbirds), Criteria 6 (site regularly supports 1% of the individuals in a population of one waterbird species or sub-species), Criteria 2 (site supports vulnerable, endangered, or critically endangered species or threatened ecological communities) and Criteria 4 (site supports plants and/or animal species important for maintaining the biological diversity of a particular biogeographic region). As per data generated by the census, over 270 wetlands fulfil Ramsar criteria 5 and/or 6.

The quality of data on population trends of waterbirds remains an area of serious concern. The fifth edition of Waterbird Population Estimates contains CAF level population trend information for 73 species, a majority of which (68%) do not have known trend estimates. There is no information about trend quality for 71% of the species, and another 25% do not have quality assessments (Wetlands International, 2012; Kumar, 2019). There is a pressing need to increase the migratory waterbird population and distribution monitoring efforts. In 2018, the Ministry of Environment, Forest and Climate Change adopted a National Action Plan for the conservation of migratory waterbirds and their habitats along the Central Asian Flyway (MoEFCC, 2018). The long term goal of the action plan is to arrest population decline and secure habitats of migratory bird species. Building quality waterbird population database and assessments is crucial for the success of the National Action Plan.

On the overall, the census coverage in 2006-2015 has been lower as compared with the previous period. The regularity of monitoring has also come down (from 100 wetlands counted 10 times during 1987-2007 to 8 wetlands counted 10 times during 2006-2015). The census coverage of Himalayas, north-east and island regions is significantly low as compared with other regions. Following measures can help increase the coverage and quality of AWC in India:

- Ensuring that wetlands of high ornithological importance (such as having counts in excess of 20,000 waterbirds, having 1% biogeographic population of at least one species, or habitat for rare, endangered and threatened species) are covered every year.
- Improving coverage of census in the Himalayan and north-east region.
- Institutionalising AWC programme into wetlands management planning.
- Enhancing coordinator and volunteer network.
- Improving technology interface in the census process and database management.
- Developing capacities of volunteers in waterbird census.

In recent times, platforms like eBird have emerged as tools for converting count data into species distribution models and beyond. It is essential to create synergies and ensure a smooth exchange of data between various count programs as each has its uniqueness and defined purpose. The IWC remains the backbone of waterbird population estimates providing useful data for Ramsar site designation and several other purposes. Strengthening AWC will ensure that data requirements on waterbirds for national governments towards the implementation of the Ramsar Convention, CMS and other MEAs are met effectively.

The significance of AWC can be sustained through an effective network to maintain regular coordination for consistency of site coverage and data management. The programme can be mainstreamed by integrating it into wetlands management planning. In states such as Kerala, January counts have been institutionalized to support biodiversity and habitat conservation objectives.

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ANNEXES



Annex 1: List of AWC India Coordinators during 2006-2015

Sl. No.	Organisation	Name/Role	State/Region	Phone/Email Id
1	Deccan Birders (Birdwatcher Society of Andhra Pradesh)	Humayun Taher (C) Siraj A. Taher (P) AWC State Coordinator	Andhra Pradesh & Telangana	humayun.taher@gmail.com
2	Gauhati University, Assam	Dr. Prasanta Saikia (C) P. C. Bhattacharya (P) AWC State Coordinator	Assam	pksaikiaewb2016@gmail.com
3	Mandar Nature Club	Arvind Mishra (C) AWC State Coordinator	Bihar	mncarvind@hotmail.com
4	Chhattisgarh Wildlife Society	Arun Bharos (C) Ravishanker Kanoje (P) AWC State Coordinator	Chhattisgarh	cwsraipur@yahoo.co.in
5		Tarun K. Roy (C) AWC State Coordinator	Delhi	ecology_delhi@yahoo.in
6	Goa Bird Conservation Network	Pronoy Baidya (C) Late Carl D'Silva (P) AWC State Coordinator	Goa	titan2ae@gmail.com
7	Bird Conservation Society, Gujarat	Dr. B. M. Parasharya (C) AWC State Coordinator	Gujarat	parasharya@yahoo.com
8		Suresh C. Sharma (C) AWC State Coordinator	Haryana	sureshcsarma@gmail.com
9	World Wide Fund for Nature– India	Dr. Pankaj Chandan (C) AWC State Coordinator	Jammu & Kashmir	pchandand@wwfindia.net
10	Neo Human Foundation	Satya Prakash (C) AWC State Coordinator	Jharkhand	satyawildlife@gmail.com
11	University of Agricultural Sciences	Dr. S. Subramanya (C) AWC State Coordinator	Karnataka	subbu.subramanya@gmail.com
12	Kerala Agricultural University	Dr. P. O. Nameer (C) AWC State Coordinator	Kerala	nameerpo@gmail.com
13	Vidharba Nature and Human Society	Dr. Anil B. Pimplapure AWC State Coordinator	Maharashtra	anilpimplapure@gmail.com
14		Dr. Anwaruddin Chowdhury (C)	North East (other than Assam)	acbadru56@gmail.com
15	Wild Orissa	Monalisa Bhujabal (C) Dr. U.N. Dev (P) AWC State Coordinator	Odisha	wildorissa@hotmail.com
16	WWF	Gitanjali Kanwar (C) AWC State Coordinator	Punjab	gitanjalikanwar@gmail.com
17	Madras Naturalists' Society	K. V. Sudhakar (C) Kumaran Sathasivam (C) Dr. Lalitha Vijayan (P) AWC State Coordinator	Tamil Nadu	kvsudha@gmail.com k_sathasivam@yahoo.co.in
18		Neeraj Srivastava (C) AWC State Coordinator	Uttar Pradesh	neervun1@gmail.com
19	Prakriti Samsad	Kushal Mookherjee (C) AWC State Coordinator	West Bengal	kushalmookherjee7@gmail.com
20	Wetlands International	Dr. Taej Mundkur (C) IWC Coordinator Tom Langendoen IWC Database Manager	Netherlands	taej.mundkur@wetlands.org Tom.Langendoen@wetlands.org
21	Bombay Natural History Society	Dr P Sathiyasevlam (C) Dr. Raju Kasambe (P) Dr. Asad R. Rahmani (P) AWC National Coordinator	India	p.sathiyaselvam@bnhs.org raju.bnhs@gmail.com
22	Wetlands International South Asia	Dhruv Verma (C) Sugandha Menda (P) Yaiphabha Meetie (P) AWC National Coordinator	India	dhruv.verma@wi-sa.org

(C) – Current; (P) – Past

Annex 2: List of Participants in Asian Waterbird Census 2006-2015

Andaman and Nicobar Islands | Chanchal Singha Roy and Rajan P.

Andhra Pradesh | Aparna Surampudi, Sathvik Reddy Nimma, Gowthama Poludasu, Vikram Penmetsa, Surekha Aitabathula, Ashwin Krishnamurthy, K. M. Rao, Humayun Taher, Mahipal Penchala, Y. S. R. K. Prasad, Umesh Mani, K. B. Rao, R. Sreekar, Vijay Sirdesai, Deccan Birders members (formerly known as Birdwatchers Society of Andhra Pradesh (BSAP), M. Lawrence, Amritha Lawrence, G. Ramakrishna Rao, J. V. D. Moorty, M. Shafaat Ulla, K. S. Madhusudan, Sharada Annamaraju, Anita Negi, Sudhir Moorti, K. Mruthyumjaya Rao, K. Venkatesh, W. Jacobsen, Uma Hari, Dr. P. Selvam, Prasanthi, K. V. K. Maheswara Rao, M. Giridhar, K. Tulasi Rao, K. V. R. Maheswara Rao, A. Satyanarayana, P. Jagannadha Raju, Jagannadha Rao, M. S. Kulkarni, Nanda Kumar, Asif Hussain, Ashok Kumar, G. Gracious, Sivaji Anguru, Premjit, Vijay Sirdesai, Ramana Kumar K., Srinivas Prasad K., Mruthyumjaya Rao, Jayati, Siraj A. Taher, Sreekar Rachakonda, V. Santharam, Suresh Jones, K. V. Sudhakar, Mrinalini, R. Bhanumathi, Saraswathi Jayanthi and Nisha Chitnis.

Assam | Abidur Rahman, Amir Sohail Choudhury, Mustak Ahmed Barbhuiya, Rafik Ahmed Barbhuiya, Namizmur Rahman, Tayab Barbhuiya, Mustafa Ahmed Barbhuiya, Parul Akram Mazumder, Taher Ahmed Mira, Aziz Hussain, Sahina Laskar, Jubair Kaskar, Bibekananda Kakoti, Chanchal Singha Roy, Rajan P., Debananda Baruah, Tridib Sarma, Diptiman Dutta, Kuloddar Das, Dr. Anwaruddin Choudhury, Dr. Hiloljyoti Singha, Gagan Chandra Das, Dr. Prasanta K. Saikia, Dr. Malabika Kakati Saikia, Sumyyanshu, Dr. Sabita Barah, Amit Sravan Bora, Dipshikha Upadhyay, Annarna Barah, Anindita Kalita, Nabarita Bhaduree, Lupa Bora, Golap Gogai, Indukalpa Gogai, Kamal Das, Mahananda Borgohain, Pawan Changmai, Mazedul Islam, O. S. Devi, J. Das, Moloy Baruah, Purnima Sarma, Sajib Das, Manash Bhuyan, Ruma Medhi, Sayed Ahmed Shah, Abul Kashem Dewan, Rizaul Haque, Barin Kr. Boro, Rajibul Haque, Nandita Schoria, Ananta Dutta, Samima Haque and Alolika Sinha.

Bihar | Arvind Mishra, Mandar Nature Club, Jan Lakshya, Dr. P. C. Wan and Dr. R. A. Singh.

Chhattisgarh | A. M. K. Bharos & Team, Akhilesh Bharos, Shishir Das, Arvind Bharos, R. S. Kanoje, C. R. Bharos, Sushil Mutha, N. D. Agrawal, Nikhilesh Trivedi, Ajeet Bharos, Rakesh Manikpuri, Mohit Sahu, Ajit Bharos, Arvind Kumar, Saman Jha, M. Arif Ali, Ajay Bharos, Ajay Handikar, Abhinav Dhariwal, Harish Pahere, Hemant Pahare, Deependra Diwan, APCCF-WL, CCF-WL, Director-SFRTI, Ajeet Rajesh Bharos, Saurabh Agrawal, Sonu Arora, Shailendra, Rohit, Masood A. Aziz and Murtuza Ali.

Delhi | Tarun K. Roy, (Col.) Pankaj Kumar, Amitava Mazumder, Manoj Singh, Srishti Solanki, Sireesha Nemana, Ratnaboli Bose, Mohan Nagarajan, Subrat Birla, Amit Saxena, Manoj Kumar, Neelam Khosla, Catherine Rodricks, Denize Rodricks, Ranjana Paul, Birla, Ananda Banerjee, Rao Vandana Parankusum, Peeyush Sekhsaria, Vishal Kanoje, Mohan, Parul Chanana, Devika Rani, Anshuman Jha, Rakesh Khatri, Ram Nath, Forest Staffs Okhla Bird Sanctuary, Sharad Khanna, Dr. Chetan Ray, Dr. Yogesh Parashar, N. Shiva Kumar and Vaibhav Sehgal.

Goa | Carl D' Silva, Lloyd Rodricks, Parag Rangnekar, Gordon Frost, Conrad Pinto, Eveny Luis, Shanu Shruti, Heinz Lainer, Pankaj Lad, Mandar Bhagat, Aditya Watve, Bhakti Salgaonkar, Geetanjali Ravindran, Gracy Michael, Deepak Bowalkar, Neeraj Armani, Nivedan Armani, Naivedya Armani, Dr. Prithvi Amonkar, Manoj

Gawas, Bosco D'souza, Paresh V. Gosavi, Manoj Soman, Jagdish Katkar, Amit Bandekar, Hajrat, Nihar Madkaikar, Omkar Naik, Pronoy Baidya, Manoj Gawas, Ronit Dutta, Lloyd Fernandes, Erle Brito, Prince Icston DaCruz and Deepankar Ghosh.

Gujarat | Darshan Jardosh, Snehal Patel, Ruchi Dave, Pratik Patel, Vijaysinh Parmar, P. Duyesh, Viral Prajapati, Brahmesh Dave, Naimil Shah, Kakaeu Par, Nature Club Surat, Dipika M. Patel, Darshana D. Patel, Priti P. Patel, Sejal K. Patel, Dr. Nishith Dharaiya, Jaidev Dhadhal, Ajitray H. Bhatt, Ashwin S. Pomal, Abhay Hule, Amin Sagma, Anika Tere, Dr. B.M. Parasharya, P. D. Chavda, N. A. Thakor, M. S. Pavla, Anil J. Patel, Gopal Ujani, P.G. Patel, R.P. Acharya, Rohit, Sanjiv, Anvar A. Turk, Ashish Pankhaniya, Ashok Mashru, Kamal Bhatt, Ravi Ardesna, Bhavya Joshi, C. K. Borad, B. A. Jadav, P. C. Jadav, Vishal Mistry, D.N. Rank, R.M. Patel, Gopi Sundar, Swati Kittur, ICF, S.N. Varu, Suraj P. Joshi, B. R. Shah, Sushila Rathod, Usha Upadhyay, Bhartendu Dave, David Harper, G. Crossa, Rajal Pathak, Bimal Patel, U.A. Vora, Dr. Bakul Trivedi, Darshana Rathod, Sanjay Dholu, B. V. Modi, BCSG, Bhavesh Tridevi, Trupti Trivedi, Vimal Vadgama, Himanshu, Milan Bharad, Pratake Joshi, Patan, Parner, Arpit Deomurari, FES, Yagnesh Bhatt, I.R. Gadhvi, Devesh Gadhvi, Uday Vora, Dr. Raju Vyas, Chirag A. Solanki, Dhobi Pratik, Pradeep Pandya, Dhiren Meshwania, D. P. Jhala, Viral Vaghela, Darshanbhai G. Andharia, Deshrar, Dharmakumar, Dharmesh Kagathara, Rajdeep Zala, Jigar Ardeshana, Dhaval Bhatt, Hiren Patel, Raval Avnish, Niyati Bhatt, Aditi Prasad, Rajesh Makurana, Dishant, Janki Teli, Sandip Munjpara, Chetan Chavda, GEER Foundation, Dr. Deepa J. Gavali, Rupali R. Soni, Dr. Geeta Padate, Jagruti, Sandhya, Rajal, Swati, Vasima, Pranav, Deshkar, Anupuma, Dhvani, Chandni, Dr. Anika Tere, Safee Bhaure, Jaimin Patel, Hinal Khureva, Chaksha Patel, Vrinda Patel, Prith Bhakti, Dr. Arpita Geha, Nikunj Jambu, Rakesh Patel, Krishna Gadhvi, Vishal Bhatt, Dipak J. Chheta, Dr. P. P. Dodiya, Prakash Bambhania, Sharad Chheta, Naitik Joshi, Ramde Bhatiya, Jignesh C. Dabhi, Gaurang Trivedi, Dr. Aashish Shukla, Sarman Ratiya, Vijay Bariya, Mansukh, Deven Mehta, Darshan Bhatt, Dr. Maulik S. Varu, Kapil Singh V. Zala, Asvin Trivedi, Swadeepsinh P. Jadeja, Jaypal Singh Jadeja, Mehul Dudia, Kunal J. Joshi, Jayesh Patel, P. R. Sindhiya, D. M. Dafda, Vatsal Trivedi, Dr. Nilam Kumar, R. Patel, Ramesh Chandra, Ghanshyam Singh Solanki, Sanjiv M. Bamanian, Aliasgar Mullamitha, Dr. P. S. Thakker, Dr. B. N. Trivedi, Dr. R. B. Balar, Dr. Rekha R. Balar, Uday Vora, Dr. Piyush Patel, Rupa Patel, Prashant Desai, Dr. Tarun H. Joshi, Dr. Gayatri Joshi, Dr. V. M. Trivedi, H. M. Jambukia, Karthik, Sonal, Rathod, Fakirmamad A. Turk, Faruk Chauhan, Gulam Ahmad Vora, Yogendra Shah, G. K. Trivedi, G. Yadaiah, CF (Wildlife), R. G. Prajapati, DCF (Wildlife), Gunjan A. Buch, Sachin Kumar, Ibrahim I. Darvadiya, Gujarat Ecology Society, Jagrutiben H. Sanghavi, Jigar Joshi, Jayeshbhai Patel, Anand Prajapati, Rasmikant Vaghela, Ravi R. Pandya, Jaymeet M. Solanki, Jaysinh A. Parmar, Chetan Vala, Yashar Suhob, Jumabhai Bhojabhai, Subhashbhai O. Gandha, Hitesh Ahuja, Radha Shastri, Dipak Rindani, Atul, Manoj, Pritesh, Sagar, M. K. S. Himatsinh, M.B. Khatri, Mahendra T. Tank, M. S. Malik, Manoj J. Tank, Mayur Rathod, Rusdip Zula, Pratik Joshi, Mohan Bhai. S. Jobanputra, Mohmedhusain B. Khatri, Shantilal N. Varu, Subodh B. Hathi, Trilochan B. Chhaya, Shwetal Pandya, Aatman Thakar, Dhruv Bhatt, Hitesh M. Dave, Gondal Forest Youth Club Rajkot, S.P. Jadeja, Forest guard, Khijadiya Bird Sanctuary, Mahipalsinh, Shaktivijaysinh, Kishor K. Jobanputra, Jignesh Nakar, Navin N. Bapat, Nitin Bhatt, Jugalkishor Patel, BCSG, G. S. Dabhi, A. P. Dave, Hiren Majithiya, Rajesh Vasava, Nisarg Choksi, NCSC-GNFC, P. H. Sata, DFO, Marine National Park and Sanctuary, Prakash N. Tarani, Pravin H. Gohil, Mangabhai N. Dhapa, Rajesh Parmar, Sagar Tere, Dr. Anika Jadhaw, Sanjeev Kumar, M. Bamaniya, Navin Bharat, Ranjit Singh Jadeja, Mukesh Bhatt, Nirmala Chathoth, Nameer Khatri, Osman Khatri, Sahil Meghani, Snehal Thaker, Kaushal Modi, Rajendra Patel, Hiren Majothia, Jitender Patel, Snehal Banker, Dr. Dhaval Akbari, Samir Soni, Abhishek Pateel, Pinal Patel, Osmangani A. Khatri, Payal Patel, Harshil Patel, Pritesh Patel, Prasad Ganpule, M. S. Mehta, B. K. Sheth, Rohit Ganpule, K. J. Dave, Kuldip Chauhan, Ram Agre, Rohan V. Pandya, Nisheeth Pandya, Rohit Vyas, Anil Govir, Chirag Bumia, Vansola, Suvarna, Tanvir, Tushar M. Sanghani, P. M. Patel, N. P. Hirani, Kalpesh Kothari, Bharat Patel, Nikunj

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Kerala | Dr A. Rahmani, Dr P. O. Nameer, Sreekumar, Sashikumar, Abdul Riyas K., Ajay Joseph, Ajayan P. A., Ajith Kumar T., Arun C. S., Babu Kambrath, Bimalnath K. G., C. G.Kiran, C. P. Rajan, C. Sashikumar, Charan H., Baiju K., Ramesh M., Ajithkumar S., Rajesh, Nishanth, Dr. Sreekumar B., Dr. N. Unnikrishnan, Saju Vasanth, Aswin S., Karthik S., Dr. Dinesan Cheruvat, Dr. Jafer Palot, Dr. T. N. Vijayakumar, G. K. Prasanth, V. C. Balakrishnan, M. Zeenath, C. K. Vishnu Das, E. S. Praveen, P. C. Rajeevan, Praveen J., N. V.Sathyan, O. Jayarajan, P. K. Ravindran, P. V. Prabhakaranand, Arjunan S., P. Sureshbabu, Pradeesh K. R., Kalesh S., Sam D., Rohit S., Manoj S. K., Jayakumar K., Sreenivasan P. P., Vishnu Kaarta, Dileep K. G., Sandeep Das, Joji Joshua, Sathyan Meppayur, Sooraj P. N., V. Syam, Vrindavan and Vinayan P. A.

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Maharashtra | Dr. Uttamrav Derle, Jayaram, Nitin, Khandesh Nature Conservation Society, Vanyajiv Sanrakshan Sanstha, Falcon Wildlife Research & Conservation Group, Abhay Ujagare, Vinod Patil, Milind Datar, Shailendra Mahajan, Shashank Zope, Yeole, Ganesh Sonat, Amol Sapkale, Ravindra Sonawane,

Balkrushna Devare, Rahul Sonawane, Yogesh Galphade, Sachin Thakur, Prasad Sonawane, Satish Kambale, Alex Presadi, Rahul Svale, Vasudev Wadhe, Ravindra Sapkale, Nitin Nannavare, Pakshi Mitra, Anil Mali, Parag Sawji, Dr Anil Pimplapure, Gopalrao Thosar, A. M. K. Bharos, Akhilesh Bharos, Ajeet Bharos, Nitika Kishty, Aanand Bora, Nishant, Sujeet, Bharkar, Sudhesh, Ramesh, Nature Club Nashik, Aarti, Abhilash, Abhishek Suresh Sakharpe, Abhishek, Chirag, Swapnil, Omkar, Prafull, Pritesh, Aditi A. Lele, Varada S. Shevade, Aditya Ponkshe, Pranav Pandit, Ajay, Pratik, Devender, Ajinkya Amol Padwad, Akash Vagh, Akshay Sathe, Amod V. Gaurakr, Tarun Paryawaranwadi, Santosh Purshotam Korde, Amir Ramesh Shiwardkar, Aniket Bapat, Anil Mahajan, Shivaji Saware, R.G. Rane, Nikhil Bhopale, Anjali Gawali, Sadashiv Pagare, Uday Chuadhary, Shivaji S. Jaware, Laxmikant Neve, Manoj Badgujar, Apurva, Neha, Mohini, Arun Suryawanshi, Ashok D. Gaidhane, Gunwant Jibhkate, Krushnamurari Katakococo, Kailash Walthare, Ankush Sonakusare, Rahul Palandarkar, Aashish Prabhakar, Ashwini Dike, Ashwinkumar Patil, Mouje Digraj, Atharwa, Sohan, Nirad, Mihir, Sharad, Atul Dhamankar, Pramod Dekate, Avishkar Munje, Samyak Kaninde, Balasaheb Palve Jayram Satpte Swatantra, Bandu Shankar Dudhe, ECO-PRO Organisation, Bishwarup Raha, Gunjan Sugandhi, BVS Nature Club, Amey Patwardhan, Ganesh Datar, Chaatak Nature Club, Chaitanya S. Rajguru, D. J. Ugaonkar, Nature Conservation Society Nasik, Mandhukar, Satish, Daksha, Vaishali, Gautami, Dhadwad Damu Shankar, Dilipkumar Dongare, D. Y. Deshpande, Yasodhar Parkhe, Dipale Sawant, Anchal Sondhi, Adithy, Dipali Dike, Dipali Vagh, Disha Paradeshi, Shinde, Tamayechikur, Dr. Satish A. Pande, Amit P. Pawashe, Dr. Jayant Wadtkar, Sachin Sarode, Kiran P. Morey, Gaurav Kadu, Ninad Abhang, Dr. Gajanan A. Wagh, Dr. Kumbhar Sudhir Annasaheb Anarya, Dr. Ninad V. Shah, Ar. Pankaj Upadhay, Mukund Shete, Kaushal Deshpand, Falcon Wild Life Observation, M. J. College, Faruk Mhetar, Raman Kulkarni, Alkesh Thakre, Ghanashya Sirasat, Gondia Nisarg Mandal, Guatami, Guvry, Prachi, Haritsena Club, Modern High School, Hariyali-Thane, Anil Kunte, Rupali Madhavi, Sachin Mhatre, Gayatri Patil, Oak, Harshada, Hrishikesh Dike, Jamshid Parchizadeh, Jayaram Akansha Dange, Arvind Devade, Rekha Shirsat, Adinath Kawade, Anand Bokade, Anmol Hone, Devale, Mohan, Nakade, Parth Devang, Madhukar, Maharashtra Pakshimitra Asangao, Pragati Kawade, Prashant, Pratiksha Doiephode, Puj Kokan, Ravsaheb Gade, Sanket Akam, Shivkumar Vdhubre, Sukhadev, Varun Rodi, Mahesh Falke, Mayur Akolkar, Prashant Shirsat, Jayaram Udage, Jayram Shrirang Satpute, Joshi Prajakta, Jyaneshwar Shirasar, Kalayni, Vishakha, Tejal, Karan Nagare, Kartikiy, Dhnaneshwer, Sager, Rohit, Ketaki Dhananjay Abhyankar, Chandan, Ketan, Nishikant, Sachin, Nandkishor Dudhe, Rakesh Mannle, Kiran Rahalkar, Kishor Bhonde, Dilip Pandhare, Kranti A. Rokade, Vishal Gawali, Kulkarni Balasaheb Krishnaji, L. P. Nagpurkar, Envo-care Nature Club, Latish Dekate, Lokanath, Lunkad Tejaswini Devendra, Vijetha Kumar, Madhukar Jagtap, Dr. Sham Patil, Madhushree Kamat, Mahajan, Malandkar T. V., Mitbav Tal Devgad, Mandar Suresh Gaikwad, Mangal Kharmate, Mayur, Anamol, Sushant Chaudhari, Vikky Meshram, Pankaj Bhivgade, Ankit Zode, Sudesh Padole, Vivek Gidmare, Ashwin Lilachand Patil, Dr. Sunil Panditrao Patil, Bharat Jasani, Aashish Walthare, Nilesh Bhingade, Dulichand Sonvane, Sunil Gosari, Global Nature Club, Akshay Pashine, Vishnu Khawarkar, Pankaj Bhingade. Bhaskar Gisehepunje, Greenfriend Nature Club, Sachin Nanhe, Manish Bhaisane, Yashpal Kapgate, Rajkamal Job, Ajinkya Padwal, Roshan Choudhari, Deogade, Sawan Bahekar, Vinayak K. Patil, Shilpa Gadgil, Gadgil, Mukund P. Dhaurve, Ashok Padole, Avijeet Parihar, NACONS Sangli, Nalanda Foundation, Kunal Ladakar, Nature Conservation Society Sangli, Tabrej Khan, New English School Vakodi, Niketan Tidke, Pravin Lade, Manish M. Gulhane, Nil Mohit, Nilesh Bhanage, Sanchit More, Pradnywant Nane, Tushar Parab, Anish Kadan, Mandar Sawant, Shishir Shendokar, Nisarg Mitra Mandal, Nisargamitra Alibag, Veebhav, Sumit, Onkar Dayaneshwar Lanjewar, Shivcharan Govinda Raghorte, Golden Oriole Nature Club, Pakshi Mitra Mandal Nasik, Lalit, Purushottam, Ravi Vamanachary, Pooja Deshmukh, Pranav, Nichiket, Pranit, Vijay, Ruchira, Rohini, Prasanna, Kishor, Yash, Prathamesh S. Desai, Priti Joshi, Priya Garute, Masule Pratibha, Punam Dike, Pushpa Nagare, Raddi Mallikarjun, Chavan Sharda Dinanath, Rahul Lonkar, Rajesh Keshav Zende, Rameshwar Vaghubare, RCF

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Tamil Nadu | Vijay K. Yerra, Vivek Puliyeri, Dhanesh Ayyappan, Subramanian Sankar, Gnanaskandan K., Krishnan S., Vishnu S., Manikandan, Chandru Venkatraman, Venki, Venkataramani M., Vinoba A., Chandrasekar S., Sharath R., Dr. T. Badrinarayanan, A. Pavendhan, P. Vijay Karikalan, G. Prakash, Selvaraj P. R., Rajnikanath, Soundararajan S., P. Venkatraman, Coimbatore Nature Society, A. Sukumar, Dr. K. Rathinam, A. M. Amsa, A. I. Siddiqui, J. Devaprakash, A. Pushpanathan, D. Balaji, Preston, S. Kalidass, Atmavadan Reddy, Dilip Patel, Ritarpan Bhattacharya, Shilpin Patel, Manish Rai, Gita Dolia, Tushita Singh, Bharathi Dasan S., C. G. Kiran, Deepan D., Dr. Badma Narayanan, Dr. Vasanth Alva, Dr. K. Muthunarayanan, G. Parameswaram, R. Sivashankar, R. Vridhi, Dilip Joshi, Perur Lake Forum, Sravan Kumar, Jayasankar S., Thyagarajan S., Ganesh N., VijayKumar, Sampath E., Jigu Dolia, Sidharth Ramachandran, Shivaraman Venkataraman, L. Joseph Regiwald, J. Subramanean, R. D. Hemraj, Keshav, Arun B., S. Geetha Jaikumar, Dr. Alaganantham, S. P. Madan Mohan, Sanjay Prasad Ganguli, Jianasu Dolia, Vandana Gupta, Sridharan, SACON, N. Abdul Samad, Natural History Trust, Rakesh Sasibushan, Zulfiqar Marikar, Jayadev Menon, Santhosh S. Valsalam, S. Krishna Kumar, S. Mohamed Ali, Sukumar A., Vijayakumar R., Sharadha, Mymoon M. and Wildlife Lovers Association Muttupalayam.

Telangana | Aasheesh Pittie, Sharada Annamaraju, M. Shafaat Ulla, M. S. Kulkarni, Premjit, Anjali Pande, Asif Hussain Arastu, Nilay Raha, Birdwatchers Society of Andhra Pradesh (Members), Sheetal, Shweta, Arjun, Shafaat, Guru Kumar K., Humayun Taher, Y. S. R. K. Prasad, Abhinava Kidambi, Bindu Madhavi Racherla, K. B. Rao, Mahipal Penchala, Deepu Valathara, Nand Kumar, Sivaji Anguru, Siraj A. Taher, Vijay Sirdesai, Nupur Sengupta, M. Lawrence, Anita Negi, Sudhir Moorti, Gowthama Poludasu, Amritha Lawrence, Sathvik Reddy Nimma, Ashwin Krishnamurthy, Surekha Aitabathula, K. Haragopal, Santaram C., Jayati Mitra, Hemant Kumar, Ishrat Ulla, J. V. D. Moorty, Kiran Kalluri, Ashok Kumar, Kullu, Suhel Quader and V. Krishnaa Murthy.

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West Bengal | Amitava Ghosh, Subhadeep Paul, Animesh Bose, Amit Kumar Munshi, Amit Mungi, K. Banerjee, J. K. Roy, Santu Dutta, Swarojit Mondal, Santanu Banik, L. G. Lepcha, Apurba Chakraborty, Prakriti Samsad, Avisek Chatterjee, Dipabali Paul, Kaushik Deuti, Banabhusan Nayak, Arpan Mukherjee, Kushal Mookherjee, Soumya Ray, Mousumi Dutta, Biswapriya Rahut, Prosenjit Dawdi, Raja Chatterjee, Subhankar Patra, Mantu Hait and Anirban Moitra.

Annex 3: List of wetlands supporting 1% bio-geographic population of at least one waterbird species during AWC 2006-2015

State	Wetland Name	Species
Andaman and Nicobar Islands	Sippighat	Andaman Teal
Andhra Pradesh	Coringa Wildlife Sanctuary	Black-tailed Godwit
		Brown-headed Gull
		Common Redshank
		Great Egret
		Lesser Sandplover
		Painted Stork
		Small Pratincole
		Western Reef-egret
	Edduri Tank	Spot-billed Pelican
	Kolleru Lake	Asian Openbill
		Black-bellied Tern
		Black-tailed Godwit
		Black-winged Stilt
		Common Sandpiper
		Fulvous Whistling-duck
		Glossy Ibis
		Great Egret
		Gull-billed Tern
		Intermediate Egret
		Little Egret
		Little Stint
		Marsh Sandpiper
		Oriental Darter
		Oriental Pratincole
		Purple Swamphen
	Red-naped Ibis	
	Red-wattled Lapwing	
Ruff		
Spot-billed Pelican		
Nelapattu WLS	Black-headed Ibis	
	Spot-billed Pelican	
Pulicat Lagoon and WLS	Black-tailed Godwit	
	Common Teal	
	Greater Flamingo	
	Little Ringed Plover	
	Little Stint	
	Northern Pintail	
	Painted Stork	
	Spot-billed Pelican	
Western Spot-billed Duck		
Telineelapuram Village	Painted Stork	
	Spot-billed Pelican	
Uppalapadu Water Tank	Black-headed Ibis	
	Painted Stork	
	Spot-billed Pelican	
Assam	Chamaguri	Fulvous Whistling-duck
	Deepor Beel Bird Sanctuary	Fulvous Whistling-duck
		Greylag Goose
		Lesser Whistling-duck
	Dheer Beel	Baer's Pochard
IIT Guwahati Campus	Baer's Pochard	
		Cotton Pygmy-goose

State	Wetland Name	Species
	Jengdia Beel	Greater Adjutant
	Kaziranga National Park	Black-necked Stork
		Oriental Darter
		Spot-billed Pelican
	Pobitora Wildlife Sanctuary	Baer's Pochard
Greylag Goose		
Lesser Whistling-duck		
Sareswar Beel	Fulvous Whistling-duck	
Urpod Beel	Baer's Pochard	
Bihar	Kanwar Lake Bird Sanctuary	Purple Swamphen
Chhattisgarh	Bagh Nadi	Indian Cormorant
	Barbaspur-Mohda	Indian Cormorant
	Kurud Tank	Baer's Pochard
	Mandhar	Baer's Pochard
	Pikridih Reservoir	Baer's Pochard
	Sendha Tank	Baer's Pochard
Delhi	Okhla Bird Sanctuary	Gadwall
		Greylag Goose
		Purple Swamphen
Goa	Agassaim Mudflats	Brown-headed Gull
		Lesser Sandplover
	Batim Tank	Garganey
		Lesser Whistling-duck
	Carambolim Tank	Purple Swamphen
	Carambolim-Dhado Wetlands	Common Redshank
	Chapora Estuary: Marjim -'Tembwado' Coastline	Brown-headed Gull
		Lesser Sandplover
	Curtorim Lake	Cotton Pygmy-goose
Garganey		
Purple Swamphen		
Macasana Tank	Garganey	
Navelim Wetland - Bicholim	Glossy Ibis	
Gujarat	Ajawa	Greylag Goose
	AJI-I	Dalmatian Pelican
	AJI-II	Great White Pelican
	Amipur Dam	Common Crane
		Demoiselle Crane
		Great White Pelican
		Lesser Flamingo
	Barada Sagar Marsh	Demoiselle Crane
		Glossy Ibis
		Great White Pelican
		Greater Flamingo
		Red-naped Ibis
	Bhanderaj	African Comb Duck
		Glossy Ibis
		Greylag Goose
		Ruff
	Bhashkarpara	Glossy Ibis
	Bherai ponds & Coastal area	Common Crane
		Demoiselle Crane
		Greater Flamingo
	Chanch, Khera, Patva coastal & salt pans	Common Crane
Demoiselle Crane		
Great White Pelican		
Greater Flamingo		
Charakla Saltworks	Black-headed Ibis	
	Black-necked Grebe	
	Common Crane	

State	Wetland Name	Species
		Dalmatian Pelican
		Demoiselle Crane
		Eurasian Spoonbill
		Great White Pelican
		Greater Flamingo
		Painted Stork
		Ruff
		Slender-billed Gull
		Western Reef-egret
	Chhari Dhandh	Common Crane
		Great White Pelican
	Chhaya Creek	Lesser Flamingo
	Chhatardi Tank	Great White Pelican
	Daloli Tank	Painted Stork
		Purple Swamphen
	Deo (Dev) Dam	Eurasian Spoonbill
		Great White Pelican
	Dhatarvadi Dam and Lunsapur Lake	Great White Pelican
		Eurasian Spoonbill
	Dhinchada	Great White Pelican
	Dholi Dhaja Dam	Demoiselle Crane
		Greylag Goose
	Dhuvaran Coast	Pied Avocet
	Don Reservoir & Village Tank	Common Crane
		Demoiselle Crane
		Red-naped Ibis
	Dudhala Dam	Demoiselle Crane
	Dwarka Estuary	Great White Pelican
	Flamingo city	Greater Flamingo
	Gagva	Lesser Sandplover
	Gaurishanker Lake (Bortalav)	Black-tailed Godwit
		Indian Cormorant
		Red-naped Ibis
		Red-wattled Lapwing
		Ruff
	Gopnath Coast	Greater Flamingo
		Lesser Flamingo
	Gosa Kerti Tidal Regulator	Black-tailed Godwit
		Demoiselle Crane
		Eurasian Wigeon
		Black-tailed Godwit
		Black-winged Stilt
		Demoiselle Crane
		Glossy Ibis
		Great White Pelican
		Indian Cormorant
		Red-wattled Lapwing
		Ruff
		Greylag Goose
	Gosabara	Ruff
		Red-wattled Lapwing
		Purple Swamphen
		Lesser Flamingo
		Indian Cormorant
		Great White Pelican
		Glossy Ibis
		Demoiselle Crane
		Black-winged Stilt
		Black-tailed Godwit

State	Wetland Name	Species
	Hamirsar Tank	Great White Pelican
	Heranj IT	Glossy Ibis
		Purple Swampphen
	Jakhau Salt Pan	Great White Pelican
	Javala Tanks	Greylag Goose
		African Comb Duck
	Javar	Brown-headed Gull
	Juni Akhol Coast	Common Crane
		Eurasian Curlew
	Kaj Wetland	Black-tailed Godwit
		Common Crane
		Demoiselle Crane
		Eurasian Wigeon
		Glossy Ibis
		Great White Pelican
		Purple Swampphen
		Common Pochard
	Kamnath Dam	Great White Pelican
	Kanara Talav	Ruff
	Kaneval Lake	Glossy Ibis
		Painted Stork
		Ruff
	Kareda	Red-naped Ibis
	Kathivadar Para, Patwa, Khera Coast	Common Crane
		Demoiselle Crane
		Eurasian Spoonbill
		Greater Flamingo
		Little Ringed Plover
		Western Reef-egret
	Khambhat Town	Glossy Ibis
	Kharaberaja Dam	Eurasian Wigeon
	Khijadiya Bird Sanctuary	Black-necked Stork
		Common Crane
		Dalmatian Pelican
		Demoiselle Crane
		Great White Pelican
		Greater Flamingo
		Oriental Darter
		Purple Swampphen
	Khodiar Dam (Amreli)	Lesser Flamingo
		Western Reef-egret
	Kothavri Village Pond	Glossy Ibis
	Kuchadi (Kutchidi) Reservoir	Western Reef-egret
		Great White Pelican
		Demoiselle Crane
		Black-tailed Godwit
		Lesser Flamingo
	Kukad Village Pond	Greylag Goose
	Kumbharwada Sewage Pond	Black-headed Ibis
		Black-tailed Godwit
		Black-winged Stilt
		Common Teal
		Glossy Ibis
		Indian Cormorant
		Lesser Flamingo
		Purple Swampphen
		Red-naped Ibis
		Red-wattled Lapwing
		Ruddy Shelduck

State	Wetland Name	Species
		Ruff
	Lair Reservoir	Great White Pelican
	Lakhapadar Dam	African Comb Duck
		Red-naped Ibis
	Lakhota Lake	Brown-headed Gull
		Slender-billed Gull
		Western Spot-billed Duck
	Lamba	Demoiselle Crane
	Lambhvel Sewage Pond	Greylag Goose
	Luna Village Pond	Painted Stork
	Malan Bandhara	Red-naped Ibis
	Medha Reservoir	Black-necked Grebe
		Black-tailed Godwit
		Common Coot
		Eurasian Spoonbill
		Great White Pelican
		Lesser Flamingo
	Mokar Sagar Wetland Complex	Black-headed Ibis
		Black-tailed Godwit
		Dalmatian Pelican
		Demoiselle Crane
		Eurasian Spoonbill
		Great White Pelican
		Greater Flamingo
		Lesser Flamingo
		Purple Swamphen
		Red-naped Ibis
		Western Reef-egret
	Morva Hadaf Dam (Patangdi)	Glossy Ibis
	Mota Asota Dam	Demoiselle Crane
	Nadiad-Tundel-Pij-Heranj-Traj-Narda	Glossy Ibis
	Nagarama Village Pond	Glossy Ibis
		Ruff
	Nagmati River (Khimalia)	Great White Pelican
	Naika Dam	Demoiselle Crane
	Nal Sarovar Wildlife Sanctuary	African Comb Duck
		Asian Openbill
		Black-tailed Godwit
		Black-winged Stilt
		Common Coot
		Common Crane
		Common Teal
		Eurasian Spoonbill
		Eurasian Wigeon
		Gadwall
		Garganey
		Glossy Ibis
		Greater Flamingo
		Greylag Goose
		Little Cormorant
		Northern Pintail
		Northern Shoveler
		Painted Stork
		Purple Heron
		Purple Swamphen
		Red-naped Ibis
		Red-wattled Lapwing
		Ruddy Shelduck
		Ruff

State	Wetland Name	Species
		Western Spot-billed Duck
	Nanda Bet Near Village Adesar	Eurasian Spoonbill
		Great White Pelican
		Greater Flamingo
		Pied Avocet
	Nani Kakrad	Black-winged Stilt
		Eurasian Spoonbill
		Glossy Ibis
		Painted Stork
	Narara Head	Lesser Sandplover
	Narda Tank	African Comb Duck
		Demoiselle Crane
		Glossy Ibis
		Greylag Goose
		Ruff
		Western Spot-billed Duck
	Nava Talav	Great White Pelican
		Greylag Goose
		Red-naped Ibis
	Navagam-vainaj Check Dam	Common Teal
		Greylag Goose
	New Port Saltpans. Bhavnagar	Black-tailed Godwit
		Greater Flamingo
		Indian Cormorant
		Lesser Flamingo
		Little Stint
		Marsh Sandpiper
		Pied Avocet
		Ruff
	Nikol Bandhara	Painted Stork
	Ningal (Mingal) Tank	Painted Stork
	Nirma Salt Pan	Black-headed Ibis
		Black-necked Grebe
		Black-winged Stilt
		Western Reef-egret
	Nyari-i	Common Crane
	Old Port Salt Pans	Brown-headed Gull
	Paddy Field, L.V. Road	Glossy Ibis
		Ruff
	Paladi Village Pond	Greylag Goose
	Pandad Village Tank	Painted Stork
	Pariej	Common Coot
		Glossy Ibis
		Greylag Goose
		Purple Swamphen
		Ruff
		Small Pratincole
	Pipalava Bandharo (Kaj)	Common Crane
		Demoiselle Crane
		Great White Pelican
		Purple Swamphen
	Pirotan Island	Lesser Sandplover
		Oriental Darter
	Porbandar Bird Sanctuary	Lesser Flamingo
	Port Victor-fresh & Sea Wetlands	Common Crane
		Demoiselle Crane
		Greater Flamingo
		Ruddy Shelduck
	Ranasar (Patdi-lake I & II)	Demoiselle Crane

State	Wetland Name	Species
	Randharda	Oriental Darter
	Ranjit Sagar Dam	Indian Cormorant
	Ranjitpar Lake	Demoiselle Crane
	Ranjitpura (Near Charakla)	Demoiselle Crane
	Ratnal Check Dam	Great White Pelican
	Road Side Tank, Near Adesar	Little Cormorant
	Roza Adbandh	Eurasian Spoonbill
	Saldi Village Talav	Red-naped Ibis
	Sani Dam	Demoiselle Crane
	Savada Village Pond (Nava Talao)	Common Coot
		Greylag Goose
		Purple Swamphen
		Ruddy Shelduck
		Ruff
		Sarus Crane
		Temminck's Stint
	Sayant Tank	Greylag Goose
	Shetrunji Dam	Oriental Darter
	Shil Reservoir	Demoiselle Crane
	Shinay Reservoir	Great White Pelican
	Sodavadar Reservoir	African Comb Duck
	Subhas Nagar	Brown-headed Gull
	Tarak Pur Tidal Regulator	Black-tailed Godwit
		Common Crane
		Glossy Ibis
		Great White Pelican
		Greylag Goose
		Indian Cormorant
		Purple Swamphen
		Ruddy Shelduck
	Thol Lake Bird Sanctuary	Black-tailed Godwit
		Common Crane
		Common Teal
		Glossy Ibis
		Great White Pelican
		Greylag Goose
		Indian Skimmer
		Ruff
	Thoradi Dam	African Comb Duck
		Ruff
	Timbi Tank	Greylag Goose
	Traj Village Pond	Demoiselle Crane
		Glossy Ibis
	Tundi Wetland	Common Crane
		Great White Pelican
		Greylag Goose
		Lesser Flamingo
		Pied Avocet
	Vadadala Tank	Ruff
	Vadala	Glossy Ibis
		Greylag Goose
	Vadgam Coast	Lesser Flamingo
	Vadhvana Reservoir	African Comb Duck
		Black-headed Ibis
		Black-tailed Godwit
		Common Coot
		Cotton Pygmy-goose
		Demoiselle Crane
		Eurasian Wigeon

State	Wetland Name	Species
		Gadwall
		Glossy Ibis
		Great Cormorant
		Greylag Goose
		Oriental Darter
		Purple Swamphen
		Red-naped Ibis
		Red-wattled Lapwing
		Ruddy Shelduck
		Ruff
	Vadla Wetland, Near Nal Sarovar	Black-tailed Godwit
		Common Crane
		Demoiselle Crane
		Greater Flamingo
		Ruddy Shelduck
	Vainaj Drainage Canal	Greylag Goose
	Valsura	Great White Pelican
	Vartu-1 Dam	Demoiselle Crane
	Vasai Tanks	African Comb Duck
		Glossy Ibis
Ruddy Shelduck		
Veri Dam (Talab)	African Comb Duck	
	Common Crane	
	Great White Pelican	
Vibhapar	Great White Pelican	
Victor (Bherai) Salt Pans & Coastal Area	Common Crane	
	Demoiselle Crane	
	Greater Flamingo	
	Red-naped Ibis	
	Sociable Lapwing	
Victor (Port) Coastal & Salt Pans	Common Crane	
	Demoiselle Crane	
	Great White Pelican	
	Greater Flamingo	
	Ruddy Shelduck	
Victor Pond & Sakriya Hanuman Pond - Bheraivictor, Chanch Costal Area	Common Crane	
	Demoiselle Crane	
	Little Ringed Plover	
	Ruddy Shelduck	
Victor, Chanch Coastal & Freshwater Area	Common Crane	
	Demoiselle Crane	
	Eurasian Spoonbill	
	Great White Pelican	
	Greater Flamingo	
	Red-naped Ibis	
	Western Reef-egret	
Vijariya Lake	African Comb Duck	
	Glossy Ibis	
	Ruff	
Himachal Pradesh	Pong Dam Bird Sanctuary	Bar-headed Goose
Common Coot		
Common Pochard		
Common Teal		
Great Cormorant		
Great Crested Grebe		
Greylag Goose		
Little Cormorant		
Mallard		
Northern Pintail		

State	Wetland Name	Species
		Purple Swamphen
		River Lapwing
		River Tern
		Ruddy Shelduck
		Tufted Duck
Jammu And Kashmir	Gharana Wetland Reserve	Bar-headed Goose
		Ruddy Shelduck
Jharkhand	Chandil Dam	Bar-headed Goose
		Red-crested Pochard
	Chharwa Dam	Bar-headed Goose
	Khandoli Dam	Bar-headed Goose
	Malay Dam	Bar-headed Goose
	Patratu Dam	Bar-headed Goose
		Red-crested Pochard
	Tilaya Dam	Red-crested Pochard
	Udhuwa Lake Bird Sanctuary	Black-headed Ibis
		Purple Swamphen
		Bar-headed Goose
	Udhuwa Lake Bird Sanctuary: Barhale Lake	Purple Swamphen
	Udhuwa Lake Bird Sanctuary: Pataura Lake	Black-headed Ibis
		Purple Swamphen
Karnataka	Beerwal	Bar-headed Goose
	Krishnaraja Sagar Reservoir	Glossy Ibis
		Indian Cormorant
	Kukkarahalli Tank	Glossy Ibis
		Spot-billed Pelican
	Kunthur Tank (Kunthur Kallur Lake), Yelandur Cluster	Eurasian Wigeon
		Greylag Goose
	Narasambudhi Tank	Glossy Ibis
	Ranganathittu Sanctuary	Painted Stork
Kerala	Ashtamudi Lake	Purple Swamphen
		Western Reef-egret
	Cherandathoor	Purple Swamphen
	Chera-panthottam	Glossy Ibis
	Cheruvathur	Purple Swamphen
	Chittumala-karali	Purple Swamphen
	Kadalundy Estuary	Lesser Sandplover
	Kadamakkudy-puthussery Pokkali Fields	Purple Swamphen
	Katampally 1	Garganey
		Purple Swamphen
	Katappuram	Brown-headed Gull
		Pallas's Gull
	Kokkara Vayal	Glossy Ibis
		Purple Swamphen
	Kole Wetlands (Combined)	Asian Openbill
		Black-headed Ibis
		Common Sandpiper
		Cotton Pygmy-goose
		Garganey
		Glossy Ibis
		Great Egret
		Indian Cormorant
		Intermediate Egret
		Red-naped Ibis
	Korapuzha Estuary	Lesser Sandplover
	Kottappuzha Estuary	Lesser Sandplover
	Kumbala Shiriya Estuary	Pallas's Gull
		Brown-headed Gull
	Kuttanad	Western Reef-egret

State	Wetland Name	Species
		Purple Swamphen
		Little Egret
	Mavoor Vayal	Purple Swamphen
	Mogral Estuary	Pallas's Gull
	Muzhappilangad Estuary	Lesser Sandplover
		Brown-headed Gull
	North Kutanad	Glossy Ibis
		Black-headed Ibis
	Polachira	Purple Swamphen
		Purple Swamphen
	Pana Vayal	Purple Swamphen
	Purathur (Bharatapuza. Purathin) Estuary	Lesser Sandplover
		Brown-headed Gull
	Thaikadapuram	Brown-headed Gull
	Thattan Thiruthi (Olipram)	Black-headed Ibis
	Upper Kuttanad	Purple Swamphen
		Little Egret
		Little Cormorant
		Intermediate Egret
		Great Egret
	Glossy Ibis	
Vellumukku Chali	Purple Swamphen	
Vembanad Wetland Combined (10 Sites)	Purple Swamphen	
	Oriental Darter	
	Lesser Whistling-duck	
	Indian Cormorant	
	Glossy Ibis	
	Little Cormorant	
	Black-headed Ibis	
Madhya Pradesh	Chambal River (National Chambal Sanctuary)	Ruddy Shelduck
		Indian Skimmer
		Bar-headed Goose
	Chambal River: (National Chambal Sanctuary)(Kuthiyana To Used Ghat)	Bar-headed Goose
Maharashtra	Chargaon Lake	Bar-headed Goose
	Dhabepani	Red-crested Pochard
	Hatnur Dam	Purple Swamphen
		Small Pratincole
		Red-crested Pochard
	Hatnur Dam Backwater	Purple Swamphen
	Nakane Lake	Demoiselle Crane
	Nandur Madhameshwar	Glossy Ibis
		Black-headed Ibis
		Common Pochard
		Western Spot-billed Duck
		Red-naped Ibis
		Purple Swamphen
Nawegaon Lake National Park	Purple Swamphen	
	Red-crested Pochard	
	Greylag Goose	
	Greylag Goose	
Paraswada	Greylag Goose	
Sidko, Nashik	Red-naped Ibis	
Yamai Talao	Red-naped Ibis	
Zilmili Lake	Greylag Goose	
Manipur	Loktak Lake	Common Coot
		Gadwall
		Glossy Ibis
		Lesser Whistling-duck
		Purple Swamphen

State	Wetland Name	Species
Odisha	Chilika Lake Combined	Asian Openbill
		Bar-headed Goose
		Bar-tailed Godwit
		Black-headed Ibis
		Black-tailed Godwit
		Black-winged Stilt
		Bronze-winged Jacana
		Brown-headed Gull
		Caspian Tern
		Common Coot
		Common Pochard
		Common Redshank
		Common Sandpiper
		Common Teal
		Cotton Pygmy-goose
		Curlew Sandpiper
		Eurasian Wigeon
		Fulvous Whistling-duck
		Gadwall
		Garganey
		Glossy Ibis
		Great Egret
		Greater Flamingo
		Grey Plover
		Greylag Goose
		Gull-billed Tern
		Intermediate Egret
		Kentish Plover
		Lesser Sandplover
		Lesser Whistling-duck
		Little Cormorant
		Little Egret
		Little Stint
		Marsh Sandpiper
		Northern Pintail
		Northern Shoveler
		Oriental Darter
		Pacific Golden Plover
		Painted Stork
		Pheasant-tailed Jacana
		Pied Avocet
		Purple Heron
		Purple Swampphen
		Red-crested Pochard
	Red-wattled Lapwing	
	River Tern	
	Ruddy Shelduck	
Ruff		
Small Pratincole		
Sociable Lapwing		
Spoon-billed Sandpiper		
Spot-billed Pelican		
Spotted Redshank		
Tufted Duck		
Western Spot-billed Duck		
Wood Sandpiper		
Yellow-wattled Lapwing		
Ekamrakanan Tank	Lesser Whistling-duck	
Hirakud Reservoir	Great Crested Grebe	

State	Wetland Name	Species
		Greater Painted-snipe
		Greylag Goose
		Indian Cormorant
		Lesser Whistling-duck
		Purple Swamphen
		Red-crested Pochard
		Ruddy Shelduck
		Tufted Duck
		Western Spot-billed Duck
	Jaria Pato	Purple Swamphen
	Kuspangi Pato 2	Purple Swamphen
	Rajnagar Mangroves	Asian Openbill
		Bar-headed Goose
		Black-headed Ibis
		Black-tailed Godwit
		Common Redshank
		Great Egret
		Indian Skimmer
		Intermediate Egret
		Lesser Sandplover
Little Cormorant		
Little Egret		
Little Stint		
Marsh Sandpiper		
Northern Pintail		
Oriental Darter		
Pallas's Gull		
Ruff		
Puducherry	Bahour Tank	Oriental Darter
	Ousteri Tank	Indian Cormorant
Punjab	Harike Wildlife Sanctuary	Oriental Darter
		Bar-headed Goose
		Common Coot
		Gadwall
		Great Cormorant
		Greylag Goose
		Oriental Darter
		Purple Swamphen
	Red-crested Pochard	
	Keshopur-miani Community Reserve	Common Teal
		Eurasian Wigeon
		Gadwall
		Glossy Ibis
		Greylag Goose
	Purple Swamphen	
	Ruff	
	Nangal Wildlife Sanctuary	Bar-headed Goose
Greylag Goose		
Ruddy Shelduck		
Ranjit Sagar Conservation Reserve (Punjab)	Bar-headed Goose	
Ropar Conservation Reserve	Bar-headed Goose	
	Gadwall	
	Ruddy Shelduck	
Shalla Pattan	Ruddy Shelduck	
Rajasthan	Keoladeo Ghana National Park	Baer's Pochard
	Mansarovar	Bar-headed Goose
Tamil Nadu	Avaniyapuram Lake	Glossy Ibis
	Chembarambakkam Lake	Western Spot-billed Duck
	Cheyur Tank	Eurasian Spoonbill

State	Wetland Name	Species
	Cheyur Lagoon	Eurasian Wigeon
	Kaliveli Lake	Indian Cormorant
		Oriental Darter
		Spot-billed Pelican
	Karavetti-vettakudi Sanctuary	Glossy Ibis
		Intermediate Egret
		Red-naped Ibis
	Kazhuveli	Intermediate Egret
		Little Egret
		Oriental Darter
		Painted Stork
	Koonthankulam Bird Sanctuary	Bar-headed Goose
		Spot-billed Pelican
	Kunnathur Tank	Oriental Darter
	Mela-kelaselvanoor	Black-headed Ibis
		Oriental Darter
		Painted Stork
		Red-naped Ibis
		Spot-billed Pelican
	Muthupet Lagoon	Woolly-necked Stork
		Asian Openbill
		Brown-headed Gull
		Common Teal
		Eurasian Spoonbill
		Great Egret
		Greater Flamingo
		Grey Heron
		Lesser Sandplover
		Little Egret
		Little Stint
		Marsh Sandpiper
		Painted Stork
		Spot-billed Pelican
	Nanjarayan Kulam	Oriental Darter
		Spot-billed Pelican
	Pallikaranai Swamp	Black-winged Stilt
		Lesser Sandplover
		Spot-billed Pelican
	Periyakanmai	Great Cormorant
		Little Egret
		Oriental Darter
		Spot-billed Pelican
	Pichavaram Mangrove Sanctuary	Oriental Darter
	Point Calimere Sanctuary (Vedaranyam Swamp)	Black-headed Ibis
		Black-winged Stilt
		Broad-billed Sandpiper
		Brown-headed Gull
		Caspian Tern
		Common Redshank
		Curlew Sandpiper
		Eurasian Spoonbill
		Garganey
		Greater Flamingo
		Grey Plover
		Gull-billed Tern
		Intermediate Egret
		Kentish Plover
	Lesser Crested Tern	
	Lesser Sandplover	

State	Wetland Name	Species
		Little Ringed Plover
		Little Stint
		Marsh Sandpiper
		Northern Pintail
		Pacific Golden Plover
		Painted Stork
		Ruff
		Slender-billed Gull
		Spot-billed Pelican
		Spotted Redshank
	Ring Road	Spot-billed Pelican
	Sakkarakottai	Oriental Darter
	Siruthavur	Eurasian Wigeon
	Udhaya Marthan Dapuram Sanctuary	Black-headed Ibis
		Great Egret
		Intermediate Egret
		Little Egret
	Vaduvloor Lake Bird Sanctuary	Oriental Darter
		Black-crowned Night-heron
		Black-headed Ibis
Glossy Ibis		
Vedanthangal Bird Sanctuary	Oriental Darter	
	Asian Openbill	
	Black-crowned Night-heron	
	Black-headed Ibis	
	Eurasian Spoonbill	
	Glossy Ibis	
	Little Egret	
	Oriental Darter	
Vettangudi Bird Sanctuary	Painted Stork	
	Spot-billed Pelican	
	Black-headed Ibis	
	Great Egret	
	Intermediate Egret	
Telangana	Little Egret	
	Oriental Darter	
	Icrisat Asia Center	Ruddy Shelduck
	Lower Manair Reservoir	Bar-headed Goose
	Manjira Wls	Painted Stork
		Purple Swamphen
Oriental Darter		
Narsapur Lake	Black-headed Ibis	
Shameerpet Lake	Lesser Adjutant	
Uttar Pradesh	Indian Cormorant	
	Argaa Lake	Western Spot-billed Duck
	Hastinapur Wildlife Sanctuary (In Meerut Division)	Purple Swamphen
		Pheasant-tailed Jacana
		Bronze-winged Jacana
		Red-crested Pochard
	Katarnia Ghat Sanctuary	Bar-headed Goose
	Kishanpur Wildlife Sanctuary(D.T.R)	Oriental Pratincole
		Red-crested Pochard
	National Chambal Wildlife Sanctuary (Barhi To Pachnada)	Greylag Goose
Great Cormorant		
Parvati Lake	Great White Pelican	
	Eurasian Wigeon	
	Ferruginous Duck	
	Gadwall	

State	Wetland Name	Species
		Mallard
		Pheasant-tailed Jacana
		Purple Swamphen
		Red-crested Pochard
		Red-naped Ibis
		Western Spot-billed Duck
		Yellow-wattled Lapwing
	Sheikha Jheel	Greylag Goose
	Sur Sarovar Bird Sanctuary	Purple Swamphen
Uttarakhand	Asan (Azan) Barrage	Great Cormorant
West Bengal	Bakreswar Barrage	Ruddy Shelduck
	Fulbari (Same As Mahananda. Siliguri) Barrage	Bar-headed Goose
	Gajaldoba Teesta Barrage (Sam As Gazoledaba)	Ruddy Shelduck
	Tilpara Barrage	Ruddy Shelduck
		Red-crested Pochard

Annex 4: List of wetlands supporting 20,000 or more waterbirds during AWC 2006-2015

State	Wetland Name	Number of times wetlands counted	Number of times counts exceeded >20,000	Average Counts
Andhra Pradesh	Coringa Wildlife Sanctuary	5	1	11,788
	Kolleru Lake	9	9	86,593
	Pulicat Lagoon and WLS	10	6	147,364
Assam	Deepor Beel Bird Sanctuary	2	1	20,608
	Pobitora Wildlife Sanctuary	2	1	12,321
Goa	Batim Tank	4	2	24,161
	Chapora Estuary: Marjim - 'Tembwado' Coastline	4	2	17,564
	Curtorim Lake	5	1	7,954
Gujarat	Amipur Dam	1	1	124,000
	Barada Sagar Marsh	3	1	18,079
	Charakla Saltworks	4	1	20,234
	Chhaya Creek	2	1	36,495
	Flamingo City	1	1	25,000
	Gopnath Coast	3	1	14,292
	Gosa Kerti Tidal Regulator	1	1	47,132
	Gosabara	1	1	92,376
	Javar	2	1	14,035
	Juni Akhol Coast	2	1	17,541
	Kaj Wetland	2	3	26,787
	Kaneval Lake	6	1	15,941
	Kharaberaja Dam	2	1	13,711
	Khijadiya Bird Sanctuary	3	1	11,478
	Kuchadi (Kutchidi) Reservoir	3	2	17,682
	Medha Reservoir	3	3	51,980
	Mokar Sagar Wetland Complex	1	1	94,164
	Nal Sarovar Wildlife Sanctuary	2	2	2,46,896
	Nanda Bet near Village Adesar	2	1	29,476
	Nani Kakrad	2	1	14,173
	Narda Tank	8	2	11,516
	New Port Saltpans Bhavnagar	5	2	21,406
	Nirma Salt Pan	5	3	19,803
	Paddy Field, L.V. Road	1	1	1,01,704
	Pariej	8	4	22,144
	Pipalava Bandharo (Kaj)	1	1	28,113
	Sani Dam	2	1	17,779
	Savada Village Pond (Nava Talao)	4	2	18,852
	Shil Reservoir	1	1	1,00,000
	Thol Lake Bird Sanctuary	4	1	15,194
	Tundi Wetland	4	1	10,685

State	Wetland Name	Number of times wetlands counted	Number of times counts exceeded >20,000	Average Counts
	Vadala	1	1	22,888
	Vadgam Coast	2	1	37,503
	Vadhvana Reservoir	7	4	47,894
	Vadla Wetland, near Nal Sarovar	1	1	1,11,316
	Victor (Bherai) Salt Pans & Coastal Area	2	1	14,993
Himachal Pradesh	Pong Dam Bird Sanctuary	4	4	1,13,150
Kerala	Kole Wetlands (Combined)	10	9	38,706
	North Kutanad	1	1	24,011
	Upper Kuttanad	2	1	19,229
	Vembanad Wetland Combined (10 Sites)	10	6	19,339
Maharashtra	Hatnur Dam	4	1	15,281
	Nandur Madhameshwar Wildlife Sanctuary	4	3	21,452
Manipur	Loktak Lake	5	4	31,562
Odisha	Chilika Lake Combined	8	8	8,08,099
	Hirakud Reservoir	10	7	40,686
	Rajnarag Mangroves	1	1	1,25,988
Punjab	Harike Wildlife Sanctuary	1	1	67,672*
	Keshopur Community Reserve	3	1	20,701
Tamil Nadu	Karavetti - Vettakudi Sanctuary	1	1	23,280
	Muthupet Lagoon	1	1	1,02,167
	Point Calimere Sanctuary (Vedaranyam Swamp)	1	1	2,71,445
	Udhaya Marthan Dapuram Sanctuary	1	1	23,540
	Vedanthangal Bird Sanctuary	3	2	26,055
	Vellode	4	1	7,085
Uttar Pradesh	Argaa Lake	2	1	20,924
	Parvati Lake	2	2	31,698

Note: During the AWC 2006-2015 few wetlands may have been covered partially.

* The total waterbird count is for a single year i.e 2013

Annex 5: List of wetlands supporting 1,00,000 or more waterbirds during AWC 2006-2015

State	Wetland Name	Number Of Times Counts Exceeded 1,00,000	Maximum Count Reported
Andhra Pradesh	Kolleru Lake	2	184,509
	Pulicat Lagoon And Wls	4	400,504
Gujarat	Amipur Dam	1	124,000
	Nal Sarovar Wildlife Sanctuary	2	249,818
	Paddy Field, L.V. Road	1	101,704
	Shil Reservoir	1	100,000
	Vadhvana Reservoir	1	134,006
	Vadla Wetland, Near Nal Sarovar	1	111,316
Himachal Pradesh	Pong Dam Bird Sanctuary	3	134,094
Odisha	Chilika Lake Combined	8	904,621
	Rajnagar Mangroves	1	125,498
Tamil Nadu	Muthupet Lagoon	1	102,167
	Point Calimere Sanctuary (Vedaranyam Swamp)	1	271,338

Annex 6: Waterbird species reported during AWC 2006-2015

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Grebes												
Podicipedidae												
	Little Grebe	<i>Tachybaptus ruficollis</i> (Pallas, 1764)	3,620	11,781	3,390	3,886	13,349	8,966	11,455	7,980	10,252	9,073
	Red-necked Grebe	<i>Podiceps grisegena</i> (Boddaert, 1783)	1	-	-	-	-	-	136	-	18	-
	Great Crested Grebe	<i>Podiceps cristatus</i> (Linnaeus, 1758)	5,603	2,544	2,154	2,044	3,510	3,263	8,674	8,369	12,155	11,300
	Black-necked Grebe	<i>Podiceps nigricollis</i> Brehm, 1831	-	-	4,516	1,611	953	205	60	-	15	540
	Unidentified grebes	<i>Podicipedidae</i> sp.	7	15	145	123	1,160	125	182	-	7	60
Pelicans												
Pelecanidae												
	Great White Pelican	<i>Pelecanus onocrotalus</i> Linnaeus, 1758	2,545	329	3,391	5,391	14,083	1,954	1,114	2,428	6,861	6,598
	Spot-billed Pelican	<i>Pelecanus philippensis</i> Gmelin, 1789	68	3,626	386	3,334	9,768	6,561	8,349	8,430	14,309	14,623
	Dalmatian Pelican	<i>Pelecanus crispus</i> Bruch, 1832	129	33	181	386	527	365	217	131	162	366
	Unidentified pelicans	<i>Pelecanus</i> sp.	110	84	2	43	1,050	70	14	-	4	40
Cormorants and Shags												
Phalacrocoracidae												
	Little Cormorant	<i>Phalacrocorax niger</i> (Vieillot, 1817)	23,508	34,769	9,164	12,374	39,773	31,410	33,717	28,155	43,526	42,157
	Indian Cormorant	<i>Phalacrocorax fuscicollis</i> Stephens, 1826	990	2,048	1,182	3,730	1,516	4,545	2,215	3,853	7,128	3,678
	Great Cormorant	<i>Phalacrocorax carbo</i> (Linnaeus, 1758)	7,933	9,145	2,958	3,427	4,194	2,509	4,712	3,218	9,027	14,081
	Unidentified cormorants	<i>Phalacrocorax</i> sp.	133	4,926	103	4,255	6,914	732	132	23	4,121	6,412

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Darters												
Anhingidae												
	Oriental Darter	<i>Anhinga melanogaster</i> Pennant, 1769	519	786	307	874	2,318	554	1,079	578	1,158	936
Herons and egrets												
Ardeidae												
	Little Egret	<i>Egretta garzetta</i> (Linnaeus, 1766)	7,667	12,257	6,614	19,048	40,428	21,260	18,591	14,582	26,753	17,540
	Western Reef-egret	<i>Egretta gularis</i> (Bosc, 1792)	256	259	692	830	895	1,670	473	429	1,154	1,398
	Great Egret	<i>Casmerodius albus</i> (Linnaeus, 1758)	2,226	4,128	2,167	10,056	11,598	6,925	4,124	5,551	7,076	5,492
	Intermediate Egret	<i>Mesophoyx intermedia</i> (Wagler, 1829)	4,127	7,975	3,052	8,057	11,968	10,920	6,959	12,305	13,929	10,979
	Grey Heron	<i>Ardea cinerea</i> Linnaeus, 1758	1,669	2,392	1,220	1,295	5,607	2,265	2,457	1,745	2,929	2,765
	Purple Heron	<i>Ardea purpurea</i> Linnaeus, 1766	1,273	1,186	854	565	1,328	1,155	1,720	1,859	2,130	1,855
	Cattle Egret	<i>Bubulcus ibis</i> (Linnaeus, 1758)	16,553	50,908	5,866	19,533	69,610	34,779	26,385	24,887	30,893	26,208
	Indian Pond-heron	<i>Ardeola grayii</i> (Sykes, 1832)	9,480	13,237	5,000	6,833	20,904	16,592	14,106	12,731	21,170	14,714
	Striated Heron	<i>Butorides striata</i> (Linnaeus, 1758)	96	96	7	24	55	67	136	200	91	66
	Black-crowned Night-heron	<i>Nycticorax nycticorax</i> (Linnaeus, 1758)	416	1,151	434	2,307	7,177	1,829	1,399	797	559	696
	Malaysian Night-heron	<i>Gorsachius melanolophus</i> (Raffles, 1822)	-	-	-	-	-	-	2	-	-	-
	Little Bittern	<i>Ixobrychus minutus</i> (Linnaeus, 1766)	-	-	2	-	-	-	-	-	1	5
	Yellow Bittern	<i>Ixobrychus sinensis</i> (Gmelin, 1789)	22	83	12	10	158	95	92	95	116	70
	Cinnamon Bittern	<i>Ixobrychus cinnamomeus</i> (Gmelin, 1789)	33	17	15	4	6	36	109	65	45	18
	Black Bittern	<i>Ixobrychus flavicollis</i> (Latham, 1790)	29	11	12	5	17	28	104	41	22	23
	Great Bittern	<i>Botaurus stellaris</i> (Linnaeus, 1758)	-	3	3	-	4	-	9	-	2	3
	Unidentified bitterns	<i>Ixobrychus</i> sp.	-	-	-	-	-	-	-	-	-	60
	Unidentified herons/egrets/bitterns	<i>Ardeidae</i> sp.	5,274	3,056	6,747	14,414	6,255	14,444	6,117	6,402	33,537	13,184
Storks												

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Fulvous Whistling-duck	<i>Dendrocygna bicolor</i> (Vieillot, 1816)	-	-	1,858	452	5,371	11,316	3,538	6,002	2,688	9,301
	Lesser Whistling-duck	<i>Dendrocygna javanica</i> (Horsfield, 1821)	62,627	71,093	22,061	19,059	12,521	54,248	1,31,861	82,786	89,933	1,05,728
(Grey geese)												
	Greater White-fronted Goose	<i>Anser albifrons</i> (Scopoli, 1769)									24	53
	Greylag Goose	<i>Anser anser</i> (Linnaeus, 1758)	3,831	5,045	14,157	2,775	2,591	3,857	16,838	8,910	4,040	27,062
	Bar-headed Goose	<i>Anser indicus</i> (Latham, 1790)	21,509	27,663	314	221	2,989	2,271	2,188	9,434	52,678	88,288
	Ruddy Shelduck	<i>Tadorna ferruginea</i> (Pallas, 1764)	10,538	14,900	4,277	2,865	6,581	6,479	8,638	14,208	11,359	24,292
	Common Shelduck	<i>Tadorna tadorna</i> (Linnaeus, 1758)	128	206	59	52	203	68	208	19	42	7
	African Comb Duck	<i>Sarkidiornis melanotos</i> (Pennant, 1769)	2,069	1,276	4,453	2,907	1,259	3,237	1,395	2,827	2,005	8,400
	Cotton Pygmy-goose	<i>Nettapus coromandelianus</i> (Gmelin, 1789)	10,981	10,357	4,751	3,028	11,681	8,573	19,507	10,685	11,124	7,819
	Mandarin Duck	<i>Aix galericulata</i> (Linnaeus, 1758)									2	
	Unidentified geese	<i>Anser/Branta</i> sp.	1,239	-	-	-	-	-	-	-	7,500	300
(Dabbling ducks)												
	Gadwall	<i>Anas strepera</i> Linnaeus, 1758	1,80,244	2,23,056	9,789	6,937	1,59,870	1,60,082	1,96,633	1,10,874	1,27,952	1,00,982
	Falcatid Duck	<i>Anas falcata</i> Georgi, 1775	-	2	-	-	-	8	1	-	-	-
	Eurasian Wigeon	<i>Anas penelope</i> Linnaeus, 1758	47,066	56,240	5,088	14,417	97,293	1,24,998	1,29,546	1,87,137	1,64,213	1,88,889
	Mallard	<i>Anas platyrhynchos</i> Linnaeus, 1758	1,047	2,065	99	87	23	146	1,437	196	593	969
	Western Spot-billed Duck	<i>Anas poecilorhyncha</i> Forster, 1781	6,839	4,668	2,653	6,379	9,743	10,706	9,162	9,603	7,887	9,234
	Northern Shoveler	<i>Anas clypeata</i> Linnaeus, 1758	1,23,756	1,04,509	22,718	25,396	1,19,313	81,476	53,510	1,02,726	99,144	1,00,985
	Andaman Teal	<i>Anas albogularis</i> (Hume, 1873)	-	-	-	-	-	60	-	-	-	-
	Northern Pintail	<i>Anas acuta</i> Linnaeus, 1758	2,16,403	3,04,545	23,712	14,539	2,00,849	1,44,914	4,49,586	1,15,776	2,09,469	2,04,153
	Garganey	<i>Anas querquedula</i> Linnaeus, 1758	75,355	52,121	9,820	2,706	43,428	34,001	26,898	17,250	28,297	12,406

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Common Teal	<i>Anas crecca</i> Linnaeus, 1758	65,828	37,958	40,510	9,077	92,159	9,873	27,996	19,174	42,650	29,307
	Marbled Teal	<i>Marmaronetta angustirostris</i> (Ménétriés, 1832)									1	
(Diving ducks)												
	Red-crested Pochard	<i>Netta rufina</i> (Pallas, 1773)	21,634	13,424	4,726	6,978	7,027	16,114	7,091	6,757	10,432	24,057
	Common Pochard	<i>Aythya ferina</i> (Linnaeus, 1758)	43,074	78,792	11,795	14,051	38,241	13,752	25,752	27,204	29,546	30,949
	Ferruginous Duck	<i>Aythya nyroca</i> (Güldenstädt, 1770)	679	925	16	158	68	2,816	1,826	658	930	848
	Baer's Pochard	<i>Aythya baeri</i> (Radde, 1863)	-	3	-	-	-	4	420	-	42	18
	Tufted Duck	<i>Aythya fuligula</i> (Linnaeus, 1758)	58,200	47,883	998	2,784	43,227	16,873	38,036	28,421	22,834	26,239
(Mergansers)												
	Common Merganser	<i>Mergus merganser</i> Linnaeus, 1758	-	36	-	-	-	-	-	-	8	13
	Unidentified ducks (anatinae)	<i>Anatinae</i> sp.	16,865	36,730	94,670	30,247	68,664	63,906	43,065	67,635	3,59,680	2,20,288
Cranes												
Gruidae												
	Sarus Crane	<i>Antigone antigone</i> (Linnaeus, 1758)	147	67	144	31	64	35	172	113	37	109
	Demoiselle Crane	<i>Anthropoides virgo</i> Linnaeus, 1758	13,995	6,719	22,185	43,386	1,47,209	10,464	6,373	1,26,686	14,726	93,404
	Common Crane	<i>Grus grus</i> (Linnaeus, 1758)	14,846	6,894	15,699	21,657	27,064	10,379	5,204	5,319	3,650	15,140
	Unidentified cranes	<i>Gruidae</i> sp.	-	104	124	71	5,103	118	18	218	186	27
Rails, crakes, gallinules and coots												
Rallidae												
	Red-legged Crake	<i>Rallina fasciata</i> (Raffles, 1822)	-	-	-	-	-	-	2	-	-	-
	Slaty-legged Crake	<i>Rallina eurizonoides</i> (Lafresnaye, 1845)	-	-	-	-	-	37	-	-	-	-
	Slaty-breasted Rail	<i>Gallirallus striatus</i> (Linnaeus, 1766)	-	66	-	-	1	56	315	128	2	10

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Water Rail	<i>Rallus aquaticus</i> Linnaeus, 1758	-	3	-	-	-	60	680	75	25	16
	White-breasted Waterhen	<i>Amaurornis phoenicurus</i> (Pennant, 1769)	495	780	653	251	670	1,154	1,008	709	1,522	989
	Brown Crane	<i>Amaurornis akool</i> (Sykes, 1832)	14	292	8	5	23	6	93	24	18	2
	Little Crane	<i>Zapornia parva</i> (Scopoli, 1769)	-	-	-	-	-	3	2	-	-	-
	Bailon's Crane	<i>Porzana pusilla</i> (Pallas, 1776)	8	14	5	2	5	24	22	61	27	27
	Spotted Crane	<i>Porzana porzana</i> (Linnaeus, 1766)	-	-	-	-	-	9	8	-	-	-
	Ruddy-breasted Crane	<i>Porzana fusca</i> (Linnaeus, 1766)	8	4	5	3	1	58	295	73	23	21
	Watercock	<i>Gallinix cinerea</i> (Gmelin, 1789)	9	250	35	20	115	211	269	58	86	59
	Purple Swamphen	<i>Porphyrio porphyrio</i> (Linnaeus, 1758)	5,930	14,767	14,723	6,520	14,045	38,553	39,332	36,355	31,987	20,561
	Common Moorhen	<i>Gallinula chloropus</i> (Linnaeus, 1758)	1,744	10,543	1,238	1,186	4,896	13,459	11,533	3,343	6,440	5,577
	Common Coot	<i>Fulica atra</i> Linnaeus, 1758	1,99,800	1,44,531	1,71,644	1,41,775	1,17,876	92,968	1,54,193	1,33,417	1,22,762	1,91,370
	Ruddy Crane	<i>Laterallus ruber</i> (Sclater & Salvin, 1860)	-	-	-	-	4	-	-	-	24	33
	Unidentified Rails	<i>Rallidae</i> sp.	16	15	-	-	-	-	-	-	-	-
Jacanas												
Jacaniidae												
	Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i> (Scopoli, 1786)	2,710	6,545	713	1,015	6,891	8,161	8,604	6,680	4,299	8,038
	Bronze-winged Jacana	<i>Metopidius indicus</i> (Latham, 1790)	1,969	4,569	757	354	3,140	4,238	5,112	5,933	2,737	4,979
	Unidentified jacanas	<i>Jacaniidae</i> sp.										30
Painted Snipes												
Rostratulidae												
	Greater Painted-snipe	<i>Rostratula benghalensis</i> (Linnaeus, 1758)	50	123	919	12	16	32	180	98	56	13
Oystercatchers												
Haematopodidae												
	Eurasian Oystercatcher	<i>Haematopus ostralegus</i> Linnaeus, 1758	44	45	43	589	449	22	174	14	17	8
Plovers and Lapwings												
Charadriidae												

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
(Plovers)												
	Pacific Golden Plover	<i>Pluvialis fulva</i> (Gmelin, 1789)	2,309	2,580	74	83	3,575	3,870	6,729	4,660	5,783	2,348
	Grey Plover	<i>Pluvialis squatarola</i> (Linnaeus, 1758)	253	370	10	57	735	562	183	516	484	405
	Common Ringed Plover	<i>Charadrius hiaticula</i> Linnaeus, 1758	-	-	-	-	-	-	-	-	2	6
	Long-billed Plover	<i>Charadrius placidus</i> Gray & Gray, 1863	-	-	30	-	2	-	2	-	85	-
	Little Ringed Plover	<i>Charadrius dubius</i> Scopoli, 1786	1,374	1,642	1,242	563	5,260	2,169	5,511	1,125	4,112	2,172
	Kentish Plover	<i>Charadrius alexandrinus</i> Linnaeus, 1758	1,146	1,223	759	1,539	8,553	776	1,196	1,748	1,492	2,326
	Lesser Sandplover	<i>Charadrius mongolus</i> Pallas, 1776	22,878	26,866	33	384	35,037	17,201	11,712	10,544	11,471	5,855
	Greater Sandplover	<i>Charadrius leschenaultii</i> Lesson, 1826	263	464	9	270	256	1,130	41	122	613	105
	Unidentified Charadrius plovers	<i>Charadrius</i> sp.	149	5	-	-	-	-	2	-	-	-
(Lapwings)												
	Northern Lapwing	<i>Vanellus vanellus</i> (Linnaeus, 1758)	21	-	21	-	-	80	136	-	86	100
	Yellow-wattled Lapwing	<i>Vanellus malabaricus</i> (Boddaert, 1783)	309	965	165	277	284	459	578	485	557	327
	River Lapwing	<i>Vanellus duvaucelii</i> (Lesson, 1826)	29	92	3	-	2	19	58	74	487	389
	Grey-headed Lapwing	<i>Vanellus cinereus</i> (Blyth, 1842)	328	404	-	33	375	737	1,152	521	1,717	1,018
	Red-wattled Lapwing	<i>Vanellus indicus</i> (Boddaert, 1783)	3,183	3,157	1,185	2,772	3,424	3,862	4,581	4,969	5,810	4,501
	Sociable Lapwing	<i>Vanellus gregarius</i> (Pallas, 1771)	3	-	-	-	-	-	-	20	-	-
	White-tailed Lapwing	<i>Vanellus leucurus</i> (Lichtenstein, 1823)	195	21	180	110	7	14	17	31	27	38
	Unidentified lapwings	<i>Vanellus</i> sp.	44	1,542	-	4	-	-	5	-	-	-
Sandpipers and allies												
Scolopacidae												
(Woodcock and snipes)												
	Solitary Snipe	<i>Gallinago solitaria</i> Hodgson, 1831	-	-	-	-	-	-	29	-	-	-
	Pintail Snipe	<i>Gallinago stenura</i> (Bonaparte, 1830)	-	-	6	19	32	90	206	315	132	36
	Swinhoe's Snipe	<i>Gallinago megala</i> Swinhoe, 1861	-	-	-	-	-	-	-	-	3	2
	Common Snipe	<i>Gallinago gallinago</i> (Linnaeus, 1758)	393	343	244	66	555	914	965	1,098	645	627
	Jack Snipe	<i>Lymnocyptes minimus</i> (Brünnich, 1764)	4	58	13	13	68	17	248	51	20	11

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Unidentified snipes	<i>Gallinago</i> sp.	371	210	-	-	-	-	19	3	9	6
(Godwit)												
	Black-tailed Godwit	<i>Limosa limosa</i> (Linnaeus, 1758)	45,217	60,448	12,185	14,579	71,474	1,13,001	98,919	93,587	70,800	76,525
	Bar-tailed Godwit	<i>Limosa lapponica</i> (Linnaeus, 1758)	683	422	685	1,458	1,971	1,009	876	28,244	401	43
(Curlews)												
	Whimbrel	<i>Numenius phaeopus</i> (Linnaeus, 1758)	180	223	21	120	393	183	343	306	88	48
	Eurasian Curlew	<i>Numenius arquata</i> (Linnaeus, 1758)	3,471	506	212	293	461	454	307	304	421	155
(Sandpipers)												
	Spotted Redshank	<i>Tringa erythropus</i> (Pallas, 1764)	986	166	44	67	3,295	695	207	42	908	143
	Common Redshank	<i>Tringa totanus</i> (Linnaeus, 1758)	2,291	4,570	388	1,545	9,442	4,181	1,766	6,562	1,521	1,746
	Common Greenshank	<i>Tringa nebularia</i> (Gunnerus, 1767)	680	1,069	159	527	960	503	767	350	727	513
	Marsh Sandpiper	<i>Tringa stagnatilis</i> (Bechstein, 1803)	6,692	3,682	109	935	31,531	7,124	3,661	5,008	3,745	1,511
	Green Sandpiper	<i>Tringa ochropus</i> Linnaeus, 1758	257	363	74	117	260	246	438	143	314	211
	Wood Sandpiper	<i>Tringa glareola</i> Linnaeus, 1758	3,101	5,350	1,798	1,524	5,493	8,743	9,087	7,226	13,900	5,248
	Terek Sandpiper	<i>Xenus cinereus</i> (Güldenstädt, 1775)	176	359	61	244	459	319	98	332	275	47
	Common Sandpiper	<i>Actitis hypoleucos</i> Linnaeus, 1758	2,217	2,854	938	1,422	2,169	5,052	3,797	2,272	5,025	1,894
	Ruddy Turnstone	<i>Arenaria interpres</i> (Linnaeus, 1758)	438	19	10	128	701	45	15	93	60	45
	Asian Dowitcher	<i>Limnodromus semipalmatus</i> (Blyth, 1848)	64	12	-	-	16	50	-	16	47	40
(Stints and calidrine sandpipers)												
	Great Knot	<i>Calidris tenuirostris</i> (Horsfield, 1821)	36	-	-	25	74	-	-	52	15	1
	Red Knot	<i>Calidris canutus</i> (Linnaeus, 1758)	-	-	-	-	21	-	-	-	-	-
	Sanderling	<i>Calidris alba</i> (Pallas, 1764)	25	11	262	140	70	164	1,301	125	718	91
	Little Stint	<i>Calidris minuta</i> (Leisler, 1812)	6,084	12,955	3,546	4,363	58,747	22,070	13,339	12,825	17,817	11,468
	Temminck's Stint	<i>Calidris temminckii</i> (Leisler, 1812)	349	787	911	1,042	389	60	1,232	305	692	724
	Long-toed Stint	<i>Calidris subminuta</i> (Middendorff, 1853)	1	19	-	-	156	987	-	-	-	-

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Dunlin	<i>Calidris alpina</i> (Linnaeus, 1758)	156	126	168	595	707	162	52	293	571	28
	Curlew Sandpiper	<i>Calidris ferruginea</i> (Pontoppidan 1763)	9,628	21,246	271	1,006	17,149	4,129	6,598	9,104	4,763	5,890
	Spoon-billed Sandpiper	<i>Calidris pygmaea</i> (Linnaeus, 1758)	-	-	-	2	-	-	-	-	4	-
	Broad-billed Sandpiper	<i>Calidris falcinellus</i> (Pontoppidan, 1763)	4	1	-	27	2,516	10	-	-	6	30
	Ruff	<i>Philomachus pugnax</i> (Linnaeus, 1758)	14,676	6,947	31,490	54,509	15,278	1,62,123	9,445	17,703	14,538	14,347
	Unidentified Calidris sandpipers	<i>Calidris</i> sp.	70	694	-	-	-	-	-	-	-	-
	Unidentified sandpiper sp.	<i>Scolopacidae</i> sp.	-	-	-	-	630	400	-	-	-	501
(Phalaropes)												
	Red-necked Phalarope	<i>Phalaropus lobatus</i> (Linnaeus, 1758)	-	-	2	309	78	-	17	9	-	81
Ibisbill, Stilts and Avocets												
Recurvirostridae												
	Black-winged Stilt	<i>Himantopus himantopus</i> (Linnaeus, 1758)	19,940	14,801	9,842	8,647	23,270	22,082	17,882	25,724	32,973	22,093
	Pied Avocet	<i>Recurvirostra avosetta</i> Linnaeus, 1758	8,477	1,259	2,697	6,365	4,335	598	2,484	701	8,167	9,237
Crab-plover												
Dromadidae												
	Crab Plover	<i>Dromas ardeola</i> Paykull, 1805	2	-	2	935	1,388	14	1,030	-	1	-
Stone-curlews and Thick-knees												
Burhinidae												
	Indian Thick-knee	<i>Burhinus indicus</i> (Salvadori, 1865)	-	-	-	-	74	4	2	2	2	6
	Great Thick-knee	<i>Esacus recurvirostris</i> (Cuvier, 1829)	55	86	27	120	352	60	86	18	167	148
Couriers and Pratincoles												
Glareolidae												
	Indian Courser	<i>Cursorius coromandelicus</i> (Gmelin, 1789)	-	-	-	-	5	4	2	78	12	2
	Collared Pratincole	<i>Glareola pratincola</i> (Linnaeus, 1766)	-	-	82	300	-	-	255	77	22	7
	Oriental Pratincole	<i>Glareola maldivarum</i> Forster, 1795	721	2,728	339	-	-	52	61	113	18	1,532
	Small Pratincole	<i>Glareola lactea</i> Temminck, 1820	3,718	1,845	69	621	8,159	2,670	7,055	5,629	7,971	7,900

Group and Family #	Common Name	Scientific Name	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Black-bellied Tern	<i>Sterna acuticauda</i> Gray, 1832	174	54	1	10	28	352	17	4	48	57
	Bridled Tern	<i>Sterna anaethetus</i> Scopoli, 1786	-	-	-	-	-	-	1	-	-	-
	Whiskered Tern	<i>Chlidonias hybrida</i> (Pallas, 1811)	10,553	17,284	5,884	10,020	30,872	12,485	29,973	21,767	24,739	32,857
	White-winged Tern	<i>Chlidonias leucopterus</i> (Temminck, 1815)	363	8	-	16	1	44	21	4	4	2
	Black Tern	<i>Chlidonias niger</i> (Linnaeus, 1758)	-	-	-	-	-	1	-	-	-	-
	Unidentified terns	<i>Sterninae</i> sp.	773	1,796	100,758	5,743	3,068	29,440	15,545	4,470	9,117	2,425
(Skimmers)												
	Indian Skimmer	<i>Rynchops albigollis</i> Swainson, 1838	3	157	234	-	-	-	-	-	104	324
Unidentified waders	Unidentified waders	Unidentified waders	22,998	6,571	21,163	12,476	33,000	57,067	12,296	57,643	91,135	1,40,940
Unidentified waterbirds	Unidentified waterbirds	Unidentified waterbirds	-	-	9	200	1,188	106	10	2	220	300

Order of groups follows Rasmussen and Anderton (2012)

Annex 7: Wetlands having waterbird species of high conservation significance during AWC 2006-2015

Common Name	IUCN Status	State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Dalmatian Pelican	VU											
		Gujarat	12	7	7	41	37	14	15	6	13	18
		Karnataka							1			
		Odisha							1			
		Rajasthan	1								1	1
		Uttar Pradesh										2
Woolly-necked Stork	VU											
		Andhra Pradesh	1	1								
		Assam						1	4			
		Chhattisgarh									1	
		Delhi	1						2	2	1	2
		Goa		1						2	1	8
		Gujarat	11	3	8	6	6	4	9	6	3	9
		Himachal Pradesh									1	1
		Jammu and Kashmir								1		
		Jharkhand					1	1	1	2		4
		Karnataka		4				4	5		6	
		Kerala	6	10	3	2	1	4	2	5	22	11

Common Name	IUCN Status	State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
		Madhya Pradesh									2	1
		Maharashtra	5	14	3		3	6	13	4	11	3
		Odisha									1	
		Punjab		1						1		
		Rajasthan										4
		Tamil Nadu	4				2	1			2	
		Telangana		1					1	1	2	5
		Uttar Pradesh		2								3
		Uttarakhand	3	3				2				1
		West Bengal									1	
Lesser Adjutant	VU											
		Assam	3	1				4	15		1	1
		Bihar					1					
		Chhattisgarh				1						
		Goa	1					1		2		3
		Jharkhand				1	1	2		1		1
		Madhya Pradesh				1						
		Maharashtra						1				
		Odisha		1								
		Telangana								1		
		Uttar Pradesh		1								
		West Bengal	1	5								

Common Name	IUCN Status	State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
		Madhya Pradesh									1	
		Maharashtra	16	23	13	1		17	16	2	9	3
		Manipur							1	1	1	1
		Odisha	4	4	3	2	9	3	6	9	9	10
		Puducherry				1						
		Punjab		4					1		2	2
		Rajasthan	4								1	6
		Tamil Nadu		2		1	1				1	
		Telangana		3	2	2	2	1		2	3	8
		Uttar Pradesh		3								1
		Uttarakhand	3	3				4		1	1	1
		West Bengal		2					1		2	2
Baer's Pochard	CR											
		Assam		1					3		1	
		Chhattisgarh									3	2
		Maharashtra						1				
		Rajasthan									1	
Sarus Crane	VU											
		Gujarat	17	7	12	6	7	2	9	7	4	6
		Haryana									1	
		Himachal Pradesh									1	1
		Madhya Pradesh		2								
		Maharashtra	3	5	4	1		4	1		5	

Common Name	IUCN Status	State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
		Punjab		1								
		Rajasthan	1									2
		Uttar Pradesh		1				2	2			1
		Uttarakhand	1									
Sociable Lapwing	CR											
		Gujarat	1									
		Odisha								1		
Great Knot	EN											
		Gujarat				2						
		Kerala								1	2	1
		Odisha	1							1	1	
		Tamil Nadu					4					
Spoon-billed Sandpiper	CR											
		Andhra Pradesh				1						
		Odisha									1	
Black-bellied Tern	EN											
		Andhra Pradesh		1			1	1			1	
		Chhattisgarh									1	
		Gujarat	2		6	2	1		3	2		
		Himachal Pradesh									1	1
		Jharkhand										1

Common Name	IUCN Status	State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
		Madhya Pradesh									1	3
		Maharashtra	2									
		Odisha	1	1								
		Rajasthan										4
		Telangana		1	1		2	1	1	1	2	3
		Uttar Pradesh		1								2
Indian Skimmer	VU											
		Gujarat			1							
		Himachal Pradesh									1	
		Madhya Pradesh									1	3
		Maharashtra									1	
		Odisha	1	2								
		Rajasthan										4
		Uttar Pradesh										2

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