Numbers and distribution of waterbirds and wetlands in the Asia-Pacific region

Results of the Asian Waterbird Census: 2002-2004

David Li Zuo Wei and Taej Mundkur





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Foreword – Convention on Wetlands

Wetlands International acts as one of the five formally-recognised International Organisation Partners (IOPs) of the Convention, and the waterbird information compiled through the International Waterbird Census (IWC) and *Waterbird Population Estimates* (WPE) publications is recognised by the Convention as an important support for Contracting Parties' implementation. The information collected and compiled in the *Asian Waterbird Census 2002–2004* report provides essential support for those working hard on the ground to implement the Ramsar Convention, and it is also important to ensure, as Wetlands International strives to do, that the information gathered through the Asian Waterbird Census (AWC) and other parts of the IWC are made fully available in useful forms to those who can and should be using it.

This updated information in the AWC 2002–2004 report will help governments in the region to continue to identify those wetlands which qualify for designation as Wetlands of International Importance (Ramsar sites), particularly in the application of Ramsar Criteria 5 (sites which regularly support >20,000 waterbirds) and 6 (sites which regularly support 1% or more of a biogeographic population of waterbirds). The *Strategic Framework and guidelines for the future development of the List of Wetlands of International Importance*, originally adopted by the Convention in 1999, has as its target the establishment of 'coherent and comprehensive' national and international networks of Ramsar sites. Yet relatively few such sites have been designated for waterbirds by countries in Asia, and there is clearly a long way to go achieve the anticipated comprehensive network for waterbirds in the region, and with many key waterbird sites yet to be designated known to be under severe pressure from land-claim and other land-use pressures which threaten and reduce their capacity to continue to deliver their vital ecosystem service to people.

In addition, the data published in this AWC report makes a vital contribution to the understanding of waterbird status at the biogeographic population scale, notably through the assessment of population sizes and trends for Wetlands International's regularly published *Waterbird Population Estimates*. The information compiled in *Waterbird Population Estimates* provides a unique resource as the basis for innovative analyses of waterbird population status and trends at the flyway scale. Such analyses need to be increasingly undertaken for all waterbird taxa, so as to highlight which flyways are under most pressure, and which waterbird populations should be afforded priority for conservation attention.

The updated information published in the 4th edition of *Waterbird Population Estimates* highlights that far more waterbird populations continue to be in decline than are increasing, and recognises that the situation is particularly dire in Asia, where almost 60% of populations of known trend are recorded as declining – a much higher figure than for any other region of the world. But these statistics derive from a poor knowledge-base in Asia, since we only have information on population trends for around 40% of waterbird populations in the region. Furthermore, these trend assessments for many populations have not be updated for some years, so we do not yet have a really clear understanding of the current picture – it could be much worse (or better!).

Improved and up-to-date status and trend information is vital in the light of the major development pressures on coastal and inland wetlands in the region. Although the knowledge-base of coverage of key wetlands by the Asian Waterbird Census is far from complete, and hence applying fully statistically-based trend analyses (such as the TRIM methodology used by the Western Palearctic component of the IWC) is not feasible, there are now many AWC sites for which there is a time-series of counts for at least part of the last 20 years. Some preliminary assessments of this unique time-series data for Asian waterbirds, using different statistical approaches, are underway and are yielding promise that population status and changes to this status may indeed be detectable from the AWC data for at least a number of waterbirds. Such findings will further increase the value and importance of the AWC, including as a contribution to assessing the delivery of the WSSD/CBD 2010 biodiversity target to significantly reduce the rate of loss of biological diversity.

It takes a lot of continuing effort and commitment to maintain and continue such monitoring schemes as the AWC over the long period of years necessary to yield meaningful baselines and identification of changes in the status of waterbird biodiversity. The value and success of the AWC is hugely due to the dedication and immense efforts of its national co-ordinators and their networks of people on the ground prepared to make the effort to count waterbirds regularly in often difficult and inaccessible places, with the support of Wetlands International. Such dedication needs to be as widely and fully recognised as possible. We congratulate all involved for their efforts leading to this important report.

Dr Nick Davidson Deputy Secretary General Ramsar Convention Secretariat

Dr Lei Guangchun Senior Advisor for Asia-Pacific Ramsar Convention Secretariat

Foreword – Convention on Migratory Species

The Secretariat of the Convention on the Conservation of Migratory Species of Wild Animals (CMS) welcomes the publication by Wetlands International of the results of the Asian Waterbird Census (AWC) from 2002 to 2004. I am convinced that the valuable information presented in this report on the status and distribution of waterbird populations will greatly contribute to the conservation of waterbird species and their habitats in the Asiatic region.

Data generated through the AWC and the global International Waterbird Census (IWC) programme provides an important baseline for the work of the Convention in promoting the conservation and management of migratory waterbirds and the habitats on which they depend. Specifically, information collected by the Census contributes to the updating of the status of the species listed in CMS Appendices, and to the identification of new species to be listed, what constitutes the basis for taking action within the Convention.

Data on the status and trend of species have been instrumental in the identification and development of Concerted Actions for selected Appendix I waterfowl species, such as the White headed duck, the Lesser white-fronted goose, the Black-faced spoonbill, the Spoon-billed sandpiper, and the Chinese crested tern. The development of the African-Eurasian Migratory Waterbird Agreement (AEWA), the most extensive Agreement established so far under the Convention, was, and still is, largely based on data gathered through the IWC. The same applies to the development of a Regional Agreement under CMS for the Central Asian Flyway.

The importance of reliable data on waterfowl populations has become particularly evident in the last couple of years in connection with the spread of the Highly Pathogenic Avian Influenza (HPAI) virus subtype H5N1, particularly as regards risk assessment related to the possible role of waterbirds in the spread, and conversely the impact of the virus on the conservation of wild birds. In this regard, Resolution 8.27 issued by CMS COP8 (Nairobi, 20-25 November 2005) and Res. 3.6 of AEWA MOP3 (Dakar, 23-27 October 2005) requested CMS and other stakeholders to explore possibilities for establishing partnerships in order to support the development of long-term funding for monitoring schemes, including the International Waterbird Census and its derived outputs, that are relevant to the Convention's interests. The CMS Secretariat continues to be engaged in this endeavour.

On behalf of the CMS Secretariat, I would like to thank Wetlands International for its painstaking effort in compiling and producing this report. I would like to strongly encourage the CMS Contracting Parties to use this publication as a reference for their conservation activities nationally.

Robert Hepworth Executive Secretary CMS Secretariat

Message from Wetlands International

Wetlands International established the International Waterbird Census (IWC) in Europe in 1967. The IWC has since developed into a global waterbird monitoring programme, and the Asian Waterbird Census (AWC) was initiated in 1987. Wetlands International is pleased to present the tenth summary of results from the AWC, covering the years 2002–2004, in the 20th anniversary year of the AWC.

The AWC 2002–2004 results demonstrate the significant value of the census, which covered 2,032 sites across 22 countries, with nearly 8 million waterbirds recorded in all three years. A total of 459 sites met the criteria for internationally important sites set by the Ramsar Convention on Wetlands. Of the total 274 waterbird and 61 wetland-dependent species recorded, 43 were Globally Threatened species according to IUCN criteria, and 159 were listed in Appendices I and II of the Convention on Migratory Species.

Although it is not yet possible to calculate population trends of the species recorded statistically, due to the inconsistency of site coverage across parts of the region, the data collected by the AWC was the main source of information in the Asia-Pacific region for overall assessment of waterbird numbers and trends through the *Waterbird Population Estimates –Fourth Edition* (Wetlands International 2006). This showed that 62% of waterbird populations with known trends are now decreasing or have become extinct in Asia, and only 10% are increasing. Waterbirds and their wetland habitats in the Asian region are clearly in need of urgent protection, through both on-the-ground conservation activities and policy-based protection measures.

The information collected through the AWC also identified partial or complete reclamation as the biggest threat to wetlands and their use by waterbirds across the Asian region. The most serious known problem occurs in the Yellow Sea region, where the world's largest reclamation project in this century, at Saemangeum in the Republic of Korea was completed in April 2006. This project destroyed a total of 401 square kilometres of intertidal mudflats which were formerly one of the most important wetland sites for migratory waterbirds in Asia, having been of special importance for populations of the Endangered Spoon-billed Sandpiper and Nordmann's Greenshank, in addition to a wide range of other species. The Ramsar Convention 7th Conference of the Parties (COP) Resolution VII.21, on "enhancing the conservation and wise use of intertidal wetlands", urges Contracting Parties to conserve and restore intertidal wetlands. The Republic of Korea has committed to play a leading role in migratory waterbird conservation by signing the partnership for the conservation of migratory waterbirds and the sustainable use of their habitats in the East Asian - Australasian Flyway in November 2006. The Republic of Korea will also host the Ramsar COP 10 in October 2008. Wetlands International urges the government of the Republic of Korea to undertake evaluation of its current development policies on the Yellow Sea coast and to commit to a moratorium on intertidal wetlands development. This commitment would provide an example to other countries for the wise use of wetlands and the conservation of waterbirds.

Jane Madgwick Chief Executive Officer Wetlands International

Message from Keidanren Nature Conservation Fund

The Keidanren Nature Conservation Fund (KNCF) was established in 1992 in response to the UN Conference on Environment and Development (UNCED), which was held in Rio de Janeiro. KNCF shares the view that companies themselves should tackle nature conservation and environmental preservation, all over the world.

Since then, we have continued to provide support through the Fund for NGO nature conservation activities, mainly those undertaken in the Asia-Pacific region or in Japan.

The Fund receives donations each year from the member companies of the Japan Business Federation (Nippon Keidanren) or from individuals. To date, total project support amounts to 2,200 million yen, with about 700 projects supported.

'The Asian Waterbird Census – promoting waterbird and wetland conservation in the Asia-Pacific region', carried out by Wetlands International – Malaysia Office, is supported by KNCF 2006. The results of the census of waterbird in Asia (AWC) are also reported in Japan as 'The Waterfowl Crisis', contributing to raising awareness of the issue and recognition of the importance of the census.

While expecting that your organization will continue to carry out its valuable work in the future, I pray for your increasing development and prosperity.

Naotake Okubo Chairman Nippon Keidanren Committee on Nature Conservation

Acknowledgements

As usual, we begin by thanking the AWC's thousands of volunteers, although we cannot list all their names in the report. Without their active participation we would not have the data to compile this report and make an important volume of information available to a global audience. We acknowledge and would like to express our gratitude for all the efforts they make to undertake the census and report the results to the national and Sub-national Coordinators.

We thank all the AWC Coordinators who organised the census between 2002 and 2004 and sent the data gathered to Wetlands International. Without their great efforts, the AWC could not have been carried out so successfully.

We also thank Abdul Aleem Chaudhry, Asad Rahmani, B.M. Parasharya, Carlo Custodio, Enam Ul Haque, Woei-horng Fang, Ferry Hasudungan, Gandhiv Kafle, Hem Sagar Baral, Hitoha Amano, Hong Chamnan, Igor Fefelov, Leung Va, Lew Yang, M. Zafar-ul Islam, Mark Barter, Mike Crosby, Munir Awan, Nameer Ommer, Nguyen Duc Tu, Nial Moores, Noriko Moriwake, Petch Manopawitr, Philip Round, Pushpa Thambipillai, S. Balachandran, Siraj Taher, Sujoy Chaudhari, Sumit Sen, Thet Zaw Naing, Udaya Sirivardana, Umesh Madhukar Pawar, Yeap Chin Aik, Yu Yat Tung, Yus Rusila Noor and Yutaka Kanai, who all made comments and contributed to the compilation of the report.

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Finally, we thank the Keidanren Nature Conservation Fund for providing the financial resources for the compilation, publication and dissemination of this report.

Abbreviations

AEWA APMWCS AWC CBD CMS CP CR EAAF	African–Eurasian Waterbird Agreement Asia-Pacific Migratory Waterbird Conservation Strategy Asian Waterbird Census Convention on Biological Diversity Convention on Migratory Species Central Province, Sri Lanka Central Region, Nepal East Asian – Australasian Flyway
EP ER	Eastern Province, Sri Lanka Eastern Region, Nepal
IBA	Important Bird Area
IUCN	World Conservation Union
IWC	International Waterbird Census
MAB	UNESCO Man and the Biosphere Programme (MAB) Reserve
NCP	North Central Province, Sri Lanka
NP	Northern Province, Sri Lanka
NP	National Park
NR	Nature Reserve
NWFP	North West Frontier Province, Pakistan
NWP	North Western Province, Sri Lanka
R	River
SABP	Sabaragamuwa Province, Sri Lanka
SP	Southern Province, Sri Lanka
WLS	Wildlife Sanctuary
WP	Western Province, Sri Lanka
WPE	Wetlands International's Waterbird Population Estimates programme
WR	Western Region, Nepal
WSSD	World Summit on Sustainable Development
UVAP	Uva Province, Sri Lanka

Summary

Background

The Asian Waterbird Census (AWC) was initiated in 1987 and runs in parallel with other waterbird censuses carried out in Africa, Europe, Central and West Asia and Latin America under the umbrella of the International Waterbird Census (IWC), which is organised by Wetlands International. The IWC is the largest and longest running faunal monitoring programme in the world.

The AWC started on the Indian subcontinent in January 1987 and has grown rapidly to cover the rest of Asia, Australasia and eastern Russia. Since 1987, a total of over 6,100 sites in 27 countries have been counted at least once.

The AWC census takes place annually, during the second and third weeks of January, and is carried out by volunteers interested in collecting information on waterbirds and wetlands as a basis for contributing to their conservation.

The data collected by the AWC have been used in various reports and contribute to a range of conservation activities at levels from local to global, including:

- species and site conservation and 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;
- the Ramsar Convention on Wetlands, by identifying wetlands of international importance through regular monitoring of waterbirds and Ramsar List sites;
- the Convention on Migratory Species, 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 implementation of the Asia-Pacific Migratory Waterbird Conservation Strategy, through monitoring
 of waterbirds and their sites, including sites listed under the three East Asian Australasian Migratory
 Waterbird Site Networks;
- BirdLife International's Important Bird Area (IBA) programme;
- IUCN/BirdLife's Globally Threatened Birds programme; and
- Wetlands International's Waterbird Population Estimates (WPE) programme.

The data given in this publication represent the results of the AWC from 2002 to 2004.

Highlights of the 2002–2004 censuses

Twenty-two countries participated in the censuses, and 2,032 sites were covered at least once between 2002 and 2004. Of the sites covered, 79 have been designated as internationally important sites under the Ramsar Convention (as at 31 December 2006), 36 as Migratory Waterbird Network Sites in the East Asian – Australasian Flyway (as at 31 December 2006) and 280 as Important Bird Areas (BirdLife International 2004, 2005).

A total of 459 sites meet two criteria of internationally important sites. Ninety-six sites have been reported to support more than 20,000 waterbirds, and 454 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Total numbers of waterbirds counted were 7,964,568 (1,025 sites), 7,763,834 (1,299 sites) and 7,934,809 (1,075 sites) in 2002, 2003 and 2004 respectively.

Totals of 274 species of waterbirds and 61 species of wetland-dependent species (covering five species of sea birds, 33 birds of prey, 12 kingfishers, and 11 wagtails and pipits) were recorded. The 10 most numerous species were Northern Pintail (780,709 in 2003), Mallard (731,459 in 2003), Baikal Teal (VU [BirdLife International 2006], 458,039 in 2004), Common Pochard (369,672 in 2002), Eurasian Wigeon (361,768 in

2004), Common Coot (360,349 in 2002), Common Teal (333,498 in 2004), Spot-billed Duck (316,675 in 2004), Northern Shoveler (293,635 in 2002) and Gadwall (290,781 in 2004).

Forty-three of the species recorded are recognised as globally threatened, according to BirdLife International (2006). They include four Critically Endangered, 13 Endangered and 26 Vulnerable species. In addition, 21 Near Threatened species were recorded. One hundred and fifty-nine of the species covered by the census are listed in the Appendices of the Convention on Migratory Species. Of these, 28 are listed in Appendix I while 131 species are listed in Appendix II. Additionally, 57 species are listed by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES); 15 and 42 species are listed in Appendices I and II respectively.

Good coverage of at least 27 congregatory species, i.e. Indian Cormorant, Oriental Stork, Indian Black Ibis, Black-faced Spoonbill, Fulvous Whistling Duck, Whooper Swan, Tundra Swan, Swan Goose, Greater Whitefronted Goose, Lesser White-fronted Goose, Bean Goose, Bar-headed Goose, Lesser Snow Goose, Falcated Duck, Baikal Teal, Philippine Duck, Red-crested Pochard, Ferruginous Duck, Great Scaup, White-headed Duck, Demoiselle Crane, Siberian Crane, White-naped Crane, Hooded Crane, Common Crane, Red-Crowned Crane and Bronze-winged Jacana, reinforces the value of the census in monitoring the distribution and abundance of waterbirds in the Asia-Pacific region.

Fishing, agricultural development, hunting, excessive cattle grazing, pollution of wetlands through domestic sewage, pesticides and fertilisers, and overgrowth of vegetation are reported as the main on-site uses and threats. Although partial or complete reclamation was reported at only 7% (145) of the sites, this activity can cause a total loss of waterbird habitat, therefore it is believed to be the most destructive cumulative threat to the wetlands and their use by waterbirds. Improved reporting of information on uses and threats at all sites is being promoted to provide a more comprehensive mechanism to increase our knowledge base and to enable preventive action to be undertaken in a timely manner through local and international efforts.

The collection of data was coordinated and carried out by a dedicated volunteer network of National/Subnational Coordinators and over 1,000 volunteers in 22 countries.

The AWC covers the following four main regions: South Asia, Southeast Asia, East Asia and Australasia.

South Asia (Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka)

A total of 1,205 sites in South Asia were counted at least once; count information was provided by all countries. Total numbers of waterbirds counted were 3,941,894 (518 sites), 3,544,755 (735 sites), 3,014,246 (548 sites) in 2002, 2003 and 2004 respectively. Totals of 170 species of waterbirds and 39 species of wetland-dependent birds were counted, 16 of which are globally threatened and 14 of which are Near Threatened.

Southeast Asia (Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Timor Leste and Vietnam)

A total of 408 sites in Southeast Asia were counted at least once; count information was provided by all countries except Lao PDR and Timor Leste. Total numbers of waterbirds counted were 307,319 (202 sites), 272,061 (243 sites) and 466,403 (180 sites) in 2002, 2003 and 2004 respectively. Totals of 180 waterbird and 30 wetland-dependent species were counted, 22 of which are globally threatened and 15 of which are Near Threatened.

East Asia (mainland China, Hong Kong, Macao, Taiwan, Japan, Republic of Korea, Democratic People's Republic of Korea, Mongolia and eastern Russia)

A total of 388 sites in East Asia were counted at least once, with no information provided from the Democratic People's Republic of Korea or Macao. Total numbers of waterbirds counted were 3,366,770 (276 sites), 3,582,202 (292 sites) and 4,180,979 (321 sites) in 2002, 2003 and 2004 respectively. Totals of 165 species of waterbirds and 35 species of wetland-dependent birds were counted, 24 of which are globally threatened and seven of which are Near Threatened.

Australasia (Australia, New Zealand and Papua New Guinea)

Information, relating mainly to shorebirds, was received from Australia only. Thirty-one sites were counted at least once during 2002–2004. Total numbers of waterbirds counted were 348,585 (29 sites), 364,816 (29 sites) and 273,181 (26 sites) in 2002, 2003 and 2004 respectively. Forty-seven species of shorebirds were counted, and five Near Threatened species were recorded.

Status and distribution of species

Individual status reports are presented for a selection of 211 species (202 maps), including 42 globally threatened and 19 Near Threatened species for which relatively significant data are available. Internationally important sites for each species were identified according to the 1% criterion provided in *Waterbird Population Estimates – Fourth Edition* (Wetlands International 2006).

Forward planning

The report outlines plans to be implemented during 2007–2015 as a follow up to the *Strategy for the Development of the Asian Waterbird Census: 2004–2006.* These include actions to enhance geographic and site coverage, ensure high quality of the AWC data, strengthen communication and public awareness, build the capacity of national networks, support improved decision making for waterbird and wetland conservation and develop a coordination mechanism for effective operation and targeting of the AWC.

1. Introduction

The AWC is part of a global volunteer-based programme to monitor the distribution and abundance of the waterbirds of the region and their habitats. This section gives an overview and explains the relevance of monitoring waterbirds and the IWC and AWC programmes. The information on the IWC presented in sections 1.1 and 1.2 is extracted from the latest publication on the waterbird census for the Western Palearctic and Southwest Asia (Gilissen *et al.* 2002). The remaining sections are largely extracted from the previous AWC report, which covered 1997–2001 (Li and Mundkur 2004).

1.1 Why monitor waterbirds?

Waterbirds are one of the most remarkable components of global biodiversity. Their long migrations and tendency to concentrate in large numbers on particular wetlands make them both visible and charismatic. They are important indicators of the ecological condition and productivity of wetland ecosystems, and their presence is widely valued by numerous stakeholders including local human populations, tourists, associated enterprises, hunters (both sport and subsistence) and research biologists throughout the world. The presence of waterbirds also offers many opportunities for using wetlands sustainably, particularly through eco-tourism. This is particularly important for developing countries, since protecting waterbird habitats may impose an additional resource burden on them.

Waterbirds are readily counted because many species congregate conspicuously. No other group of birds has been so comprehensively and frequently surveyed. There is a strong tradition in Europe and North America, and a growing tradition in other parts of the world, of using long-term waterbird census data as a basis for estimating the sizes and trends of waterbird populations. The IWC is one of the longest running and most extensive harmonised biodiversity monitoring programmes in the world. The information obtained from the IWC has considerable conservation value at the local, national and international levels and a growing scientific impact. In recent years, the data collected by the IWC are finding new applications in understanding the interactions between wild birds, domestic poultry and the spread of avian influenza and are contributing to the development of a global early warning system.

1.2 Organisation of the IWC

1.2.1 Global organisation of the IWC

The IWC is a site-based counting scheme for monitoring waterbird numbers, organised by Wetlands International. The census comprises four separate surveys:

- The AWC, which covers Asia (including eastern Russia) and Australasia and which is the subject of this report, is coordinated from the Wetlands International office in Kuala Lumpur, Malaysia (see e.g. Li and Mundkur 2004).
- The counts in the Western Palearctic and Southwest Asia (IWC–WP&SWA) are coordinated and compiled by the Wetlands International office in Wageningen, The Netherlands (see e.g. Gilissen *et al.* 2002 and Solokha 2006).
- The African Waterbird Census (AfWC) is coordinated from the Wetlands International office in Dakar, Senegal (see e.g. Dodman and Diagana 2003).
- In South and Central America, the Neotropical Waterbird Census (NWC) is coordinated by the Wetlands International office in Buenos Aires, Argentina (see e.g. Lopez-Lanus and Blanco 2005).

1.2.2 Plans for the Future

The strategic plans of the IWC include, as recommendations for the future, to:

• continue expansion of the census towards a global survey;

- finalise the new database programme, merging taxonomical databases, and have it adopted in all regions, which will facilitate exchange of data between the regional databases;
- disseminate the results of the IWC more regularly, especially through the internet;
- increase coverage of species, sites, seasons and sources;
- increase capacity to deliver products that meet the needs of conventions and their contracting parties, mainly through the increase in coverage of species, sites and seasons;
- increase cooperation with organisations working towards the conservation of waterbirds (e.g. BirdLife International: IBA Programme, hunting organisations);
- link the database with a Geographic Information System (GIS), to standardise geographical definition of sites; and
- extend the scope of application of the data, for example with research on climate change.

The major change in the direction proposed for the IWC is the development of a more global character and closer interaction of the regional schemes in terms of standardisation and data management.

1.2.3 The role of Wetlands International's Specialist Groups

The Specialist Groups are an important element of Wetlands International's networks of experts. The Specialist Groups are formally linked to the global umbrella of the Species Survival Commission (SSC) of the IUCN. Mostly initiated in the 1980s, when they were known as Research Groups, the groups with strong links to the IWC are the Swan, Goose, Duck, Seaduck, Wader, Flamingo, Crane and Threatened Waterfowl Specialist Groups. The Specialist Groups play an important role in providing information and advice to the IWC and the Waterbird Population Estimates programme (see 1.4.4 for further information).

The Wader Study Group is the largest and longest established of the Specialist Groups; its *Bulletin* appears three times a year. The Swan, Goose, Duck, Seaduck, Flamingo, Crane and Threatened Waterfowl Specialist Groups also produce high quality bulletins at regular intervals; most of these bulletins are also available on the internet.

1.3 Organisation and development of the AWC

The AWC is an international programme initiated in 1987 to monitor the status of waterbird populations, their distribution and the status of wetlands in Asia. The AWC runs in parallel with other international census programmes for waterbirds in West and Central Asia, Africa, Europe and the Neotropics under the umbrella of the IWC, coordinated by Wetlands International. The census aims to contribute to the conservation of waterbirds and their wetland habitats by:

- providing the basis for estimates of waterbird populations;
- monitoring changes in waterbird numbers and distribution by regular, standardised counts of representative wetlands;
- improving knowledge of little-known waterbird species and wetland sites;
- identifying and monitoring (networks of) sites that are important for waterbirds in general and, more specifically, identifying and monitoring sites that qualify as Wetlands of International Importance under the Ramsar Convention on Wetlands;
- providing information on the conservation status of waterbird species, for use by international agreements;
- increasing awareness of the importance of waterbirds and their wetland habitats at local, national and international levels.

The AWC also aims to build and strengthen national networks of enthusiastic volunteers and facilitate their training.

The AWC takes place once a year, during the second and third weeks of January. The census was initiated in 1987 on the Indian subcontinent, and has grown rapidly to cover most of the countries of South Asia, East Asia and Southeast Asia, as well as Australasia and eastern Russia (see Figure 1).

The census is carried out primarily by volunteers. It is normally coordinated by a volunteer National Coordinator in each country (supported by Sub-national or State Coordinators in countries with a large number of participants) who is responsible for maintaining the local volunteer networks who undertaking the counts (see Appendix I for details). The coordinators are required to send out count forms, liaise with participants and receive completed

forms after the census as well as to compile a national report and disseminate it locally to support and promote conservation action. In addition, the National Coordinators are required to forward count data to the International Coordinator, and this information forms the basis of regional reports such as this.

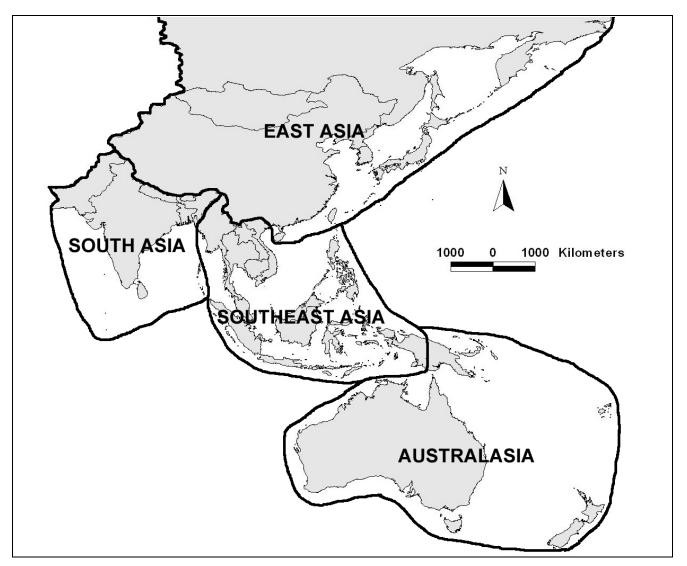


Figure 1: The AWC regions

Information collected by the censuses made from 1987 to 1993 was published in a series of annual reports (van der Ven 1987, 1988; Scott and Rose 1989; Perennou *et al.* 1990; Perennou and Mundkur 1991, 1992; Mundkur and Taylor 1993). In addition to these annual reports, results from the years 1987 to 1991 were analysed to define species distribution and to identify important wetlands in a comprehensive report by Perennou *et al.* (1994). Results from 1994, 1995 and 1996 were compiled in a 3-year report by Lopez and Mundkur (1997). Data from 1997, 1998, 1999, 2000 and 2001 were compiled in a 5-year report by Li and Mundkur (2004).

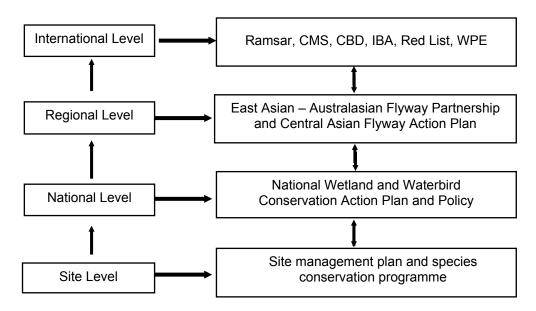
Over the last 20 years, the AWC has established itself well in certain countries and regions, having achieved its objectives of monitoring waterbird populations in, for example, Hong Kong, Republic of Korea, Japan and Taiwan, where the census has been conducted every year with consistent coverage of a large proportion of wetland sites. However, in some countries, e.g. Bhutan, Lao PDR, Democratic People's Republic of Korea, Maldives, Mongolia and Papua New Guinea, the census has been conducted only occasionally, with data provided by individual counters or local bird groups. Therefore the national networks need to be developed further in these countries in order for the census to achieve its aims of undertaking counts consistently at important wetlands.

In October 2003, the first meeting of the AWC National Coordinators was held in Malaysia. A *Strategy for the Development of the Asian Waterbird Census: 2004–2006* was the major output of the meeting and has provided a clear direction for the AWC at the regional and national levels. The Strategy was reviewed at the second AWC National Coordinators' meeting held in October 2006 in the Philippines. A long-term strategy that aims to guide and provide the overall long-term direction to the AWC programme was developed and is highlighted in Section 4 of this report.

1.4 How the results of the AWC are used

The activities undertaken by the AWC and the data gathered have generated strong support and contribute to a range of waterbird and wetland management and conservation activities undertaken on levels from local to global (Figure 2).





Key: Ramsar – Convention on Wetlands, CMS – Convention on Migratory Species, CBD – Convention on Biological Diversity, IBA – BirdLife International's *Important Bird Area* Programme, Red List – IUCN Red List/BirdLife International's *Global Species Programme*, WPE – Wetlands International's *Waterbird Population Estimates* programme.

1.4.1 Conservation of waterbirds and wetlands

Waterbirds are one of the key attributes of the biodiversity of many wetlands, and waterbird counts form one of several elements that are used to identify important wetlands. It is widely accepted that the number of waterbirds using a wetland site is a good indicator of that site's biological importance (e.g. Scott 1980), and waterbird counts have been especially influential in the identification and conservation of important wetlands. Bird counts can also provide vital evidence of the need to protect wetlands, should they become threatened. Kushlan (1993) assessed the value of waterbirds as bio-indicators of wetland change, and one of his conclusions was that "population level data show special promise as sentinel bio-indicators".

1.4.2 The Convention on Wetlands (The Ramsar Convention)

www.ramsar.org

The Convention on Wetlands (Ramsar, Iran, 1971) provides the intergovernmental framework to promote the conservation of wetlands worldwide. The Ramsar Convention has grown rapidly since its establishment in 1971 and, as at 31 January 2007, 154 countries had become signatories to the Convention. Contracting Parties are required "to recognise and conserve any internationally important wetlands", by designating them as Ramsar sites; the Ramsar List of wetlands of international importance comprised 1,636 sites worldwide

covering more than 145.7 million hectares in January 2007. The majority of sites are designated based on their importance for waterbirds according to data generated through the AWC and similar programmes.

The Convention has adopted nine criteria for identifying wetlands of international importance, three of which relate to waterbirds:

Criterion 2: A wetland should be considered internationally important if it supports vulnerable, endangered, or critically endangered species or threatened ecological communities.

Criterion 5: A wetland should be considered internationally important if it regularly supports 20,000 or more waterbirds.

Criterion 6: A wetland should be considered internationally important if it regularly supports 1% of the individuals in a population of one species or subspecies of waterbird.

The Ramsar Convention encourages Contracting Parties to monitor waterbirds regularly as the basis for the identification of wetlands of international importance. More information about the Ramsar List and descriptions of the Ramsar sites are available on the Convention's website: www.ramsar.org/key_guide_list2006_e.htm

During the 6th meeting of the Conference of the Contracting Parties (COP), held in Brisbane, Australia, in 1996, the Parties passed a resolution recognising the value of waterbird monitoring (Res.VI.4: Adoption of population estimates for operation of the specific criteria based on waterfowl; see Appendix II for full text). The resolution urged Wetlands International to continue to develop the International Waterfowl Census (now the International Waterbird Census – IWC) and to enhance its global coverage as an important basis for the application of Ramsar Criteria on waterbirds.

Subsequently, at the 8th COP, held in Valencia, Spain, in 2002, the Parties reiterated the value of using data collected through the IWC and other programmes as a basis for generating and updating the population estimates of waterbirds and identifying sites of international importance (Res.VIII.38: Waterbird population estimates and the identification and designation of Wetlands of International Importance; see Appendix III for full text). The Contracting Parties further requested Wetlands International to update the best available waterbird population estimates regularly at each of their triennial conferences, and, every nine years, to revise the 1% thresholds for each waterbird population (see 1.4.4 below).

The *Ramsar Strategic Plan 2003–2008* identified as a priority the need to "Promote and disseminate research into the population dynamics and sustainable harvesting of wetland dependent species, especially migratory waterbirds" (operational objective 12.2.4; see the Ramsar Convention website for details). The AWC provides a mechanism to generate information on the population dynamics of migratory and resident waterbirds in the Asian region on an annual basis and to contribute to efforts to determine sustainable harvesting limits for individual species.

1.4.3 The Convention on Migratory Species (CMS)

www.cms.int

The Convention on the Conservation of Migratory Species of Wild Animals (CMS, Bonn, 1983) provides an international framework for the conservation of migratory species, which include many species of waterbirds. The Convention requires the Contracting Parties to promote, cooperate with and support research relating to migratory species to avoid any migratory species becoming endangered. Although at present only six counties (Bangladesh, India, Mongolia, Pakistan, Philippines and Sri Lanka) in Asia (as defined for the AWC) are Contracting Parties to the CMS, any state can sign a CMS agreement for single or multiple species (indeed, several additional Asian countries already do this).

The waterbird monitoring data generated by the AWC provide a valuable information base for the Convention and its Contracting Parties to decide on a change in conservation status of a waterbird species and whether it should be added to or removed from the lists of species of concern to the Convention (CMS Appendices I and II), which determine whether there is a need to take additional action to protect the species (or population). The full list of species covered by the Appendices is available on the CMS website www.cms.int/documents/index.htm .

1.4.4 Waterbird Population Estimates (WPE)

www.wetlands.org

Wetlands International collates information on the status of the populations of waterbirds around the world and publishes *Waterbird Population Estimates*, which is the authoritative source for the identification of Wetlands of International Importance based on the 1% criterion of the Ramsar Convention and the species on the CMS Appendices (see 1.4.2 and 1.4.3 above).

The fourth edition of *Waterbird Population Estimates* was published in 2006 (Wetlands International 2006). It identifies 815 populations in Asia and notes the lack of population trends for 56% of these; for populations with trend information, 62% are decreasing or extinct, 27% are stable and only 10% are increasing. It calls for the collection of new information, recognising the absence of updated and reliable estimates for a high proportion of Asian species. It also notes that the Asian region holds more globally threatened waterbird populations than does any other region of the world.

The wealth of data collected through the AWC serves as a basis for collating and evaluating information on waterbird populations and trends for inclusion in *Waterbird Population Estimates*.

1.4.5 East Asian – Australasian Flyway Partnership for the Conservation of Migratory Waterbirds

The East Asian – Australasian Flyway Partnership initiative has evolved from the *Asia-Pacific Migratory Waterbird Conservation Strategy* (APMWCS) 1996–2000 (Anonymous 1996) and 2001–2005 (Asia-Pacific Migratory Waterbird Conservation Committee 2001). The APMWCS served as an international cooperative conservation initiative for waterbirds and wetlands in the Asia-Pacific region from 1996 to 2006. The Strategy has been very successful in conserving migratory waterbirds and their habitats through a range of activities such as international cooperation, development and implementation of species action plans and site networks. The implementation of the Strategy was supported by government agencies, the Ramsar Convention, CMS, non-government organisations (NGOs) and technical experts in the region. As a development of the APMWCS, a flyway partnership initiative in the East Asian – Australasian Flyway (launched in November 2006) and an Action Plan for the Central Asian Flyway (finalised by CMS and Wetlands International in 2006) have been developed to supersede the APMWCS after 2006.

The East Asian – Australasian Flyway partnership initiative focuses on 1) development of the flyway network of sites of international importance for the conservation of migratory waterbirds, building on the achievements of the APMWCS networks (95 sites in 14 countries, as at 31 December 2006); 2) enhancing communication, education and public awareness of the values of migratory waterbirds and their habitats; 3) enhancing flyway research and monitoring activities, building knowledge and promoting exchange of information on waterbirds and their habitats; 4) building the habitat and waterbird management capacity of natural resource managers, decision makers and local stakeholders; and 5) developing, especially for priority species and habitats, flyway-wide approaches to enhance the conservation status of migratory waterbirds. The waterbird monitoring data generated by the AWC have contributed to the identification of network sites and provide a framework for ongoing monitoring of these sites.

1.4.6 Central Asian Flyway Action Plan for the Conservation of Migratory Waterbirds and their Habitats

www.cms.int/bodies/meetings/regional/caf/caf_meeting.htm

The Action Plan for Migratory Waterbirds and their Habitats in the Central Asian Flyway was finalised in 2005 and covers conservation of species, conservation and management of habitats and management of human activities. It states that, "Range States shall endeavour to be involved in regular monitoring programmes, such as the International Waterbird Census, complemented by surveys of important breeding grounds, staging and non-breeding (wintering) sites. The results of such surveys shall be published and disseminated widely. The results will also be sent to appropriate international organisations, to enable reviews of population status and trends".

1.4.7 Important Bird Area (IBA) Programme

www.birdlife.org/action/science/sites/index.html

BirdLife International's IBA Programme is a worldwide initiative aimed at identifying, documenting and protecting a network of sites critical for the conservation of the world's birds. These sites are selected as IBAs under one or more of the following four global IBA criteria: A1: a site regularly holds significant numbers of a globally threatened species, or other species of global conservation concern; A2: a site holds a significant component of the restricted-range species whose breeding distributions define an Endemic Bird Area (EBA) or Secondary Area (SA); A3: a site holds a significant component of the group of species whose distributions are largely or wholly confined to one biome; A4: a site holds on a regular basis >1% of the biogeographic population of a congregatory waterbird, seabird or terrestrial species, or more than 20,000 waterbirds or seabirds of one or more species. A total of 2,293 IBAs have been identified in 28 countries and territories in the Asian region (BirdLife International 2004). Of these, 1,111 IBAs were identified that contain areas that qualify under the Ramsar Criteria as potential Ramsar sites (BirdLife International 2005).

A significant proportion of the wetland sites covered in the AWC meet criteria A1 and/or A4, and the AWC counts have been the primary source of data to support the identification of many of these wetland IBA sites. BirdLife International recently developed an IBA Monitoring Framework, which presents techniques that will be used by the BirdLife Partnership to monitor the status of IBAs worldwide. This is currently being adopted by the BirdLife Asia Partnership, and there is potential in the future to strengthen coordination of IBA monitoring with the wetland monitoring that is conducted as part of the AWC.

1.4.8 Globally threatened waterbirds

www.birdlife.org/action/science/species/global_species_programme/gtb_forums.html

BirdLife International leads on the update of the status of the world's threatened birds. It is the official Red Listing Authority on birds and supplies this information for the IUCN (World Conservation Union) Red List of Threatened Species. It collates information from a global network of experts and from published and unpublished sources to assess the extinction risk to each species using standard quantitative techniques. The four main types of criteria used to identify threatened species are: (a) rapid population reduction, (b) small range and fragmented, declining or fluctuating population trend, (c) small population and declining, and (d) very small population or range. Species are assigned a Red List Category based on the standard IUCN Red List Categories (IUCN 2001) as follows: Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CR), Endangered (EN), Vulnerable (VU), Near Threatened (NT), Least Concern (LC), Data Deficient (DD) and Not Evaluated (NE).

The detailed, long-term monitoring of waterbirds at wetlands, one of the world's most damaged and vulnerable groups of habitats, has already provided the basis for much important work by conservation practitioners at local, national and international levels. Important (and perhaps the most urgent) targets of conservation action are species in danger of extinction, as documented in the publications *Threatened Birds of the World* (BirdLife International 2000), *Threatened Birds of Asia* (BirdLife International 2001) and in the Data Zone on the BirdLife International website. A Globally Threatened Bird Forum for Asia has been set up on the BirdLife International website, jointly with Wetlands International for the waterbirds, to facilitate the annual update of the IUCN Red List. Asia supports more globally threatened waterbird species, including a large number of relatively widespread species, than does any other region of the world (Crosby and Chan 2006), and the AWC data have been used extensively to document and update the Red List status of these threatened waterbirds.

Whilst the AWC is able to provide information that is useful for the conservation of these threatened species, its main aim is to monitor the trends of more numerous and widespread species for which changes in status and distribution would otherwise go unnoticed.

1.4.9 National wetland and waterbird conservation

The AWC has provided a powerful stimulus for the establishment and strengthening of national and local networks of volunteers to collect information on waterbirds and wetland activities in most Asian countries over the last two decades. Data collected by the programme have been used to provide valuable baseline information on

waterbird and wetland status and to support the development of national wetland and waterbird conservation policies and action plans. At the site level, the information is being used to identify important wetlands and strengthen actions to protect them, to develop or update site conservation and management plans. The international coverage of the programme provides a strong leverage to stimulate the involvement of a wide cross section of participants and to promote local activities. The AWC also provides a mechanism to raise public awareness on wetland and waterbird conservation through the active participation of the public and the media, and it is being used effectively to generate support for the conservation of important sites in many countries.

2. Methods

2.1 Geographic and temporal coverage

The geographic coverage of the AWC includes the following four main regions: South Asia (Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan and Sri Lanka), Southeast Asia (Brunei Darussalam, Cambodia, Timor Leste, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Vietnam), East Asia (mainland China, Taiwan, Hong Kong, Macao, Japan, Democratic People's Republic of Korea, Republic of Korea, Mongolia and eastern Russia) and Australasia (Australia, New Zealand and Papua New Guinea). In mainland China, Hong Kong and Taiwan the AWC has been coordinated separately, therefore the information has been presented separately for these regions in this report.

The waterbird data presented in this report cover the years 2002, 2003 and 2004. Information was not received from Democratic People's Republic of Korea, Lao PDR, New Zealand, Papua New Guinea and Timor Leste.

Western Asia, covering the Arabian Peninsula, Central Asian Republics and Iran, lies on the crossroads of two flyways: the Central Asian Flyway and the East African – Eurasian Flyway. This region is largely covered under the African–Eurasian Waterbird Agreement (AEWA), and information from these countries is included in the reports of the Western Palearctic and Southwest Asian Waterbird Census (see e.g. Gilissen *et al.* 2002 and Solokha 2006).

2.2 Timing of the count

The AWC takes place once a year, during the second and third weeks of January. The official dates recommended were 5–20 January, 11–26 January and 10–25 January respectively for 2002, 2003 and 2004. However, logistical difficulties in some countries or limited volunteer capacity mean that counts made at any time during January are accepted for the AWC database. In some countries, counts made during the northern (boreal) winter period from December to February are accepted if no January data are available and it is evident that the populations of birds are stable in this area during this period.

2.3 Wetland sites and species coverage

The AWC sites represent all types of natural and man-made wetlands, including rivers, lakes, reservoirs, ponds, freshwater swamps, mangroves and tidal mudflats, coral reefs, rice fields, sewage farms, etc. that are covered by the Ramsar Convention.

All waterbird groups encountered in the region as recognised by the Ramsar Convention are covered by the census (grebes, cormorants, pelicans, herons, egrets, storks, ibises, spoonbills, flamingos, ducks, geese, swans, cranes, rails, jacanas, shorebirds, gulls and terns).

In addition, counts of other wetland-dependent species (including sea birds, raptors, kingfishers, wagtails and pipits) that are regularly encountered at wetlands have been included as several of these species depend largely on the food resources provided by these habitats. This will give a greater indication of the true importance of the wide diversity and abundance of these sites, even though it is expected that the diversity and abundance of such species is not yet adequately recorded by participants.

The sequence and nomenclature of waterbird species used in this report follow those used in *Waterbird Population Estimates – Fourth Edition* (Wetlands International 2006), which is based on del Hoyo *et al.* 1992 and 1996.

The taxonomy of 'large white-headed gulls' in the region, i.e. *Larus argentatus*, *L. cachinnans*, *L. heuglini*, *L. barabensis* and *L. fuscus* (see, e.g. Buchheim 2006), is an ornithological problem that remains to be solved. Differences in the way that this group is treated in the various field guides means that a species may be identified differently by different observers. For the purposes of the AWC, a taxon is assigned to one of the

four species if its range does not overlap with that of another of these species. Where ranges overlap and identification remains unclear, the taxon is assigned to a 'complex' of the two (or more) species.

2.4 Data collection and management

2.4.1 Participation and coordination

The AWC is carried out primarily by volunteers from all walks of life including university and school staff and students, nature club members, amateur and professional ornithologists, and government and non-governmental agencies related to forestry, wildlife or wetland conservation. In many countries professionals carry out much of the fieldwork. The major contributors to waterbird monitoring participate because they find counting birds enjoyable and rewarding.

In most countries the census is coordinated in a professional manner, and by one or more coordinators, on a voluntary basis (see Appendix: List of Coordinators). In countries where the coverage is poor and there is no coordinator, information is sent directly to Wetlands International by the individual field counters.

2.4.2 Data collection and maintenance

One of the most important principles in the AWC methodology is standardisation, so that the same sites are covered in the same way each January, maximising the validity of comparisons of counts from site to site and from year to year. Standardisation is ensured by the use of rigorously designed recording forms and a network of National Coordinators who liaise with counters and ensure that optimum coverage is maintained. At the national level, responsibility is often divided amongst a number of sub-national/state coordinators. At large sites, which are divided into sub-sites, good organisation and team work play an important part in the success of counts.

The annual waterbird count data and site information are recorded on standardised AWC Count and Site Forms by participants. A single count is made at each site. The information is sent to the coordinators, who have to check and collate it; in most cases this feeds into the preparation of an annual country report. The National Coordinators then forward the data to Wetlands International, where it is checked and entered into standard databases using customised Microsoft Access® programmes at the Wetlands International office in Malaysia.

2.4.3 Data checking and quality of information

Wetlands International aims to maintain a high standard in the quality of information it collates and provides through the census. It makes every attempt to verify ambiguous data received from coordinators and participants. In some cases, where unusual records have been received (of threatened species, vagrants or large numbers) and where no supporting information is forthcoming from coordinators or participants, Wetlands International checks with coordinators. This usually solves any problems and a decision can be made as to whether the record can be attributed to a transcription error on the form or to some other reason; these records are either included in the 'unidentified waterbird' category or deleted. For this reason, there may be a discrepancy between the information published in this report and other nationally generated outputs.

It is recognised that the AWC is a voluntary programme that is undertaken largely in developing countries with growing but as yet limited human capacity and inadequate resources. This means that data must be identified and checked by National Coordinators, as inaccurate data are occasionally received from volunteers who may be inexperienced in identification or lack good birding equipment (such as binoculars, a telescope or a good field guide). With the passage of time, the experience of some networks has greatly improved, although new recruits still require training and practice. General access to high quality equipment and field guides has also improved, complemented by the efforts of the AWC Coordinators to distribute the high quality *A Field Guide to the Waterbirds of Asia* (Sonobe and Usui 1993) to the network in the mid 1990s. The continued need to strengthen local networks is identified as a priority issue in the *Strategy for Development of the Asian Waterbird Census: 2007-2015* (outlined in Section 4) that will need to be addressed through improved census planning effort and the development of training activities.

Participants are urged to authenticate all new and unusual observations made during the census with relevant national organisations and to publish them in appropriate national and/or regional ornithological publications.

2.5 Counting and reporting methods

Participants are provided with basic instructions on methods and guidelines for participating in the census and making the counts. They are requested to:

- cover the most important waterbird sites (including wetland sanctuaries, Ramsar sites, IBAs and EAAF Network sites);
- visit all sites that were visited in the previous year, and use the same site names for them;
- count or estimate the number of all waterbirds present;
- provide a figure for the number of individuals of each species present. Terms such as 'hundreds' and 'thousands' are not valid;
- avoid giving ranges, e.g. 100–200, and instead provide the figure considered to be the best minimum estimate;
- where waterbirds cannot be identified to species level, list them under their group (e.g. unidentified egrets);
- report the absence of waterbirds at a wetland which is known to have held significant numbers of birds in the past by completing a census form nevertheless and noting that no birds were present. If possible, give the reason for the absence of birds (e.g. wetland completely dry, wetland frozen over or site very disturbed by hunters);
- avoid duplication of effort occasionally two or more censuses are conducted at the same site on different dates. Whenever possible, counters should liaise with one other and agree on ONE census form that gives the results of their combined efforts;
- double check all the entries on the count forms. In particular, check to see that the figures are not inadvertently inserted on the wrong line, and that species' names are not confused;
- if any species of waterbird which is not listed on the count form for the region has been observed, counters are required to add its name in the space provided at the end of the list and give additional information on its identification in the 'Comments' section of the form;
- write as clearly as possible and be sure to give the counter's full name and address on the Waterbird Count Form;
- in the event that the counter feels that the wetland that has been counted is under severe threat of destruction or degradation, he/she should inform the National Coordinator and develop a plan of action to raise awareness of the importance of the site and to conserve it. The National Coordinator may be able to advise whether international action involving Wetlands International and others is necessary.

The detailed guidelines for participants and coordinators are also available on the Wetlands International website.

2.6 Interpretation of waterbird counts

The interpretation of waterbird counts that contribute to the AWC is in line with that of the global IWC programme. With the exception of the last paragraph of subsection 2.6.2, the remainder of section 2.6 is extracted verbatim from the latest publication on the waterbird census for the western Palearctic and southwest Asia (Gilissen *et al.* 2002).

Waterbird counts are long established and internationally recognised as an objective and scientifically valid method of assessing the sizes of waterbird populations and the importance of wetlands, but the interpretation of waterbird count data nevertheless requires considerable caution.

2.6.1 Counting errors

Counting birds, as is the case with all scientific recording methods, is subject to error. Experienced counters are able to enumerate high numbers of birds under pressure of time with considerable accuracy. Prater (1979) conducted experiments with observers viewing photographs of flocks of flying birds and concluded that there may be a tendency for observers counting flocks of between 100 and 1,000 birds to under-estimate slightly (on average, 8%), and for counts of bigger flocks of a few thousand upward to be slightly over-estimated. Rappoldt *et*

al. (1985) compared estimated numbers with real flock sizes and concluded that, on average, counting errors cancel one another out and that estimates are usually correct. Counting errors can be considerable and Rappoldt *et al.* (1985) reported average counting errors of waders in flight of 17%, and of birds concentrated densely in roosts of up to 37%. Summaries of count data at national and international levels often comprise estimates made at hundreds, even thousands of sites, where it is reasonable to assume that random counting errors to some extent cancel one another out. Research on counting errors has been minimal, and it would be valuable to conduct more detailed experiments with counters of varying experience.

The method of counting has a big influence on the accuracy of species identification and the recorded numbers. Aerial and boat surveys on large wetlands are generally limited by difficulties in identifying big or mixed flocks of birds, due to disturbance and the distance from the flocks.

2.6.2 Factors that cause inaccurate counts

The behaviour of some species makes them difficult to count. Snipe and rails, for example, are inclined to skulk in dense vegetation, and a high proportion may be missed by normal counting methods. Some species habitually feed at non-wetland sites; geese, swans, Northern Lapwing and Ruff are conspicuous examples in Asia. Other waterbird species, for example divers and seaducks, e.g. *Gavia, Melanitta* and *Somateria* species, spend a great deal of time far out at sea beyond the range of telescopes, or, if feeding, remain much of the time below the water surface. At large tidal sites, unless the areas used by roosting waterbirds, particularly shorebirds or waders, are known, birds are easily missed at high tide. If the roosts are known and accessible, however, high tide (or during the incoming tide) is often the best time to count such sites.

Migratory waterbirds pass through many wetlands *en route* to their breeding or non-breeding (wintering) grounds and although, as a result of this turnover, the number of birds present at any one time may never exceed 20,000 birds or 1% of a population the wetland may still be supporting internationally important numbers of birds. Davidson *et al.* (1991) reviewed the question of turnover at individual estuaries in Britain and concluded that, "in general, a larger, and sometimes a very much larger, proportion of each waterfowl population than is apparent at any one time depends on each estuary in the network used during the non-breeding season". And that, "Overall the implication is that many estuaries which fall below the 1% criterion on the basis of peak monthly counts alone, in reality support more than 1% of the relevant populations during the course of a year and so will qualify as nationally or internationally important". One reason why IWC concentrates on counts made in the month of January is to minimise the effects on the counts of turnover, since this is the time of least between-site movement by most waterbird species in the northern latitudes. Close international synchronisation of counts also ensures that the effects of turnover are minimised.

On a national level, organisers and observers decide which sites to count on the basis of their perceived importance for waterbirds and on practical factors such as accessibility. Inaccessible sites and those which are perceived to be unimportant for waterbirds thus produce an unknown element in the national waterbird totals each season. Moser (1987) was able to calculate upward revisions of most species of shorebird spending the non-breeding period in the UK following a major survey which covered almost the entire coastline. Similar analysis of calculating waterbird numbers based on complete counts of wetlands in countries in Asia would be useful in order to provide more realistic population estimates. Achieving such comprehensive coverage would require much larger networks of participants in most countries; unless extra efforts to build local capacity are greatly strengthened and the resource base to support surveys of all wetlands is secured is unlikely that such a target could be met within the next decade.

These factors mean that counts may be under-estimates of the number of birds using a site, and this is why maximum counts are often used when assessing the importance of a site or the size of a waterbird population. Factors causing under-estimation can often be assumed to be constant over a range of sites and years, so that while under-estimates may occur, comparisons between sites and years usually remain valid.

The movement of birds in different time periods during the northern winter period between December and February (the rationale for extending the count period is explained in section 2.2) and in different tidal conditions may cause double counting, and may result in over-estimation of the total number of some waterbird species in a country. For example, the 66,009 Swan Geese recorded in Poyang Lake in Jiang Xi Province in China at the end of December (Ji *et al.* 2004) had decreased to 29,378 in the late-January/early February count (Barter *et al.* 2004) and it is considered likely that the bulk of the remaining birds may have moved into the neighbouring Anhui Province, to the Anqingyanjiang Nature Reserve and Shengjin Hu, where a total of 31,197 Swan Geese were recorded at the same time (Barter *et al.* 2004).

2.6.3 Delimitation of site boundaries

Another factor which can cause problems when interpreting waterbird count data is the delimitation of site boundaries. Sites such as large lakes and estuaries are usually self-contained and have fairly obvious physical boundaries, but in some areas the best boundaries to use are not clear-cut. Vinogradov (1996) described an immense network of wetlands in Siberia where the delimitation of 'sites' is not very meaningful. This is an extreme example, but rivers, stretches of open coast, and groups of small lakes are more frequently encountered examples of the type of area where site boundaries may be difficult to define. Coverage of these sites may not have been the same in different years, but it can be difficult to discern at what point in time changes in coverage occurred. Political boundaries often follow rivers and lakes, and this can complicate organisation and reporting of counts at the sites affected, resulting in partial or disjointed coverage, or double counting. The encouragement of mapping and careful keeping of records of count site boundaries have in recent years led to improvements in site definition which will continue in future. A need still exists to establish and maintain inventories (including detailed maps) of the geographical units that form the basis of every national waterbird monitoring scheme.

Inconsistent use of site names by counters can lead to the loss of valuable data. Changes in counters and organisers and transliterations into English from other languages and scripts can result in the site appearing several times in the database under slightly different names. It is incumbent on participants and coordinators to ensure consistency in use of site names. For the purpose of this report, the authors have attempted to identify such sites in consultation with coordinators.

The problems with obtaining consistent site coverage and consistent site definition are the most important threats to the scientific quality of the IWC data. Wetlands International is developing plans to further extend and standardise the geographical coverage and improve the data management, for instance through use of a GIS.

2.7 Methods used in the analyses

2.7.1 Species and site totals

Species totals have been used to analyse the total population of each species of each country and region. To summarise the count totals, data collected in January were used in the vast majority of cases, but occasionally only data from December and February were available. In these cases counts from December and February are included in the results.

Site totals have been used for identification of internationally important wetlands for waterbirds based on Criterion 5 (≥20,000 waterbirds) of the Ramsar Convention. As the AWC is carried out during January, the middle of the northern winter, some sites that are very important in the migration period and breeding season but less important in January might be undervalued if AWC data alone are used.

Internationally important sites that meet the 1% criterion for a waterbird population (based on *Waterbird Population Estimates – Fourth Edition* (Wetlands International 2006)) have been identified for each country in order to support efforts to have these sites nominated under the Ramsar Convention based on Criterion 6 (regularly supports 1% of the individuals in a population of one species or subspecies of waterbird) (section 3.6).

2.7.2 Coverage and distribution maps

Maps of AWC site coverage and species distribution are presented to illustrate information collected during the annual counts. For most sites, geographical (central) coordinates are included in the database and have been used for plotting count results on maps using a mapping programme. However, for those sites for which coordinates are not available, it is not possible to plot information on a map. The site coverage maps are produced to show which sites were counted in 2002, 2003 and 2004. The dots on the species distribution maps represent the maximum count at each site over the 3-year period. Thus, the maps show a 'maximum' distribution, without specific information on distribution and numbers at a site in separate years.

On all the maps, countries within the region with data available from 2002 to 2004 are shown in grey, countries with no data available from 2002 to 2004 are in light grey, and coastal waters and marine areas are in white.

2.7.3 Information on uses of and threats to wetlands

Data on uses and threats at sites were collected on the standardised AWC Count Forms; this information is presented in the country tables. A summary of the uses and threats reported at wetlands is also provided in the text relating to each country/region.

3. Results

3.1 Overview

3.1.1 Geographic and site coverage

Since the AWC began in 1987, a total of over 6,100 sites in 27 countries have been counted at least once. During 2002–2004, a total of 22 countries participated in the census and 2,032 sites were covered at least once (Figures 3, 4 and Table 1); data were received from Maldives and Macao for the first time. Of the sites covered, 79 have been designated as internationally important sites under the Ramsar Convention (as at 31 December 2006), 36 as Migratory Waterbird Network Sites in the East Asian – Australasian Flyway (as at 31 December 2006), four were UNESCO World Heritage Sites, six were UNESCO MAB (Man and the Biosphere Programme) Reserves and 280 were Important Bird Areas (IBAs) (BirdLife International 2004, 2005) (Table 2).

Country	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total	Total
																			02–04	87–04
Bangladesh	8	12	22	19	35	59	57	40	34	46	6	25	12	13	29	33	30	42	61	192
Bhutan														18	3	6			6	18
India	181	427	625	643	780	784	722	981	576	574	34	65	176	17	193	341	549	407	904	3,227
Maldives																		2	2	2
Nepal	8	11	2	10	8	15	12	7	12	4				11	8	3	3	9	11	41
Pakistan	65	141	186	140	175	254	264	33	32	15	42	37	42	42	55	68	87	23	109	535
Sri Lanka	67	99	109	115	105	67	64	58	53	42	44	67	53	61	37	67	66	65	112	367
South Asia	329	690	944	927	1,103	1,179	1,119	1,119	707	681	126	194	283	162	325	518	735	548	1,205	4,382
Brunei Darussalam				4	4		4	4	4	4	5	5				9			9	13
Cambodia							10						12	12	11	5	1	6	7	30
Indonesia			1	19	8	17	18	15	19	16			47	12	10	40	34	14	69	200
Lao PDR			2	4	5	3	2	1						14	1					23
Malaysia			69	78	105	92	17	10	7	10			20	25	25	25	43	42	61	217
Myanmar	5	3	12	17	16	21	21	14	13	3	4	2		10	33	49	75	24	114	166
Philippines				21	25	37	41	49		40	29	32	35	46	40	48	50	60	72	127
Singapore				4	12	17	16	13	15	10	10	6	11	10	10	1	9	9	10	22
Thailand	9	3	21	26	12	23	16	18	5	9	3	1		7	3	9	27	21	49	121
Timor Leste						1														1
Vietnam			2	2		1	4		1	1		1	8	2	2	16	4	4	17	28
Southeast Asia	14	6	107	175	187	212	149	124	64	93	51	47	133	138	135	202	243	180	408	948
China																				
Mainland	1	36	12	62	69	76	30	7	14	6	12	18	17	11	7	18	43	72	95	266
Hong Kong	1	1	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Масао																1	1	1	1	1
Taiwan			32	28	32	34		33	30	38	38	40	52	38	40	33	23	33	42	77
Japan*			53	39	53	47	22	50	40	47	37	41	37	108	112	101	107	95	122	203
DPR Korea																				
Republic of Korea		11	12	23	20	10	15	10	23	26	22	15	69	100	112	118	113	115	121	166
Mongolia														1			1		1	1
Eastern Russia											2	1	2	1	1	2	1	2	3	4
East Asia	2	48	110	153	176	169	70	103	110	120	114	118	180	262	275	276	292	321	388	721
Australia					16	19	20	21	31	28	23	26	27	28	34	29	29	26	31	58
New Zealand						20	20													24
Papua New Guinea				8	8	7		6												11
Australasia				8	24	46	40	27	31	28	23	26	27	28	34	29	29	26	31	93
Total No. of Sites	345	744	1,161	1,263	1,490	1,606	1,378	1,373	912	922	314	385	623	590	769	1,025	1,299	1,075	2,032	6,144

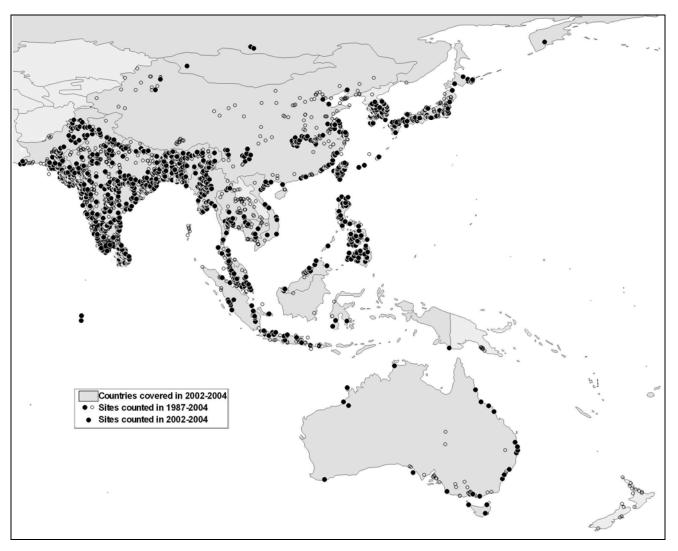
Table 1: Total numbers of sites counted for the AWC, 1987–2004

Notes:

The number of sites presented in this table may differ from the number presented in earlier reports. The figures in this table represent
the number of sites actually recorded on the AWC database. Some sites may have been combined into larger sites for standardisation.
A small number of site counts have unfortunately been misplaced.

 Japan* – Annual count data were received from a small number of selected wetland sites for all waterbird species during 1989–2004; the increase in site numbers during 2000–2004 related to the addition of the shorebird count. Totals for Anatidae and cranes were received during 2002–2004 (see section 3.4.3), but no site details were provided.

Figure 3: Sites covered by the AWC, 1987–2004



Geographical coordinates were unavailable for 1,100 sites during the period 1987–2004: for the period 2002–2004 coordinates were unavailable for 110 sites.

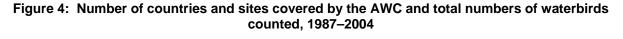
Total numbers of waterbirds counted (including subspecies, birds not identified to the species level and nonnative species) were 7,964,568 (1,025 sites), 7,763,834 (1,299 sites) and 7,934,809 (1,075 sites) in 2002, 2003 and 2004 respectively. However, inadequate consistency of annual site coverage and lack of annual coverage of some sites that normally hold large numbers of waterbirds were noted in several countries. Of the total of 2,032 sites surveyed in 2002–2004, only 463 sites (22.8%) were covered in all three years; in India, only 90 (10%) of the 904 sites surveyed during 2002–2004 were covered in all three years. Chilika Lake in India was counted in all three years, with a large difference in the numbers recorded in 2002 (1,349,587), 2003 (482,366) and 2004 (773,649); no clear reason was provided for the large variation at this important site.

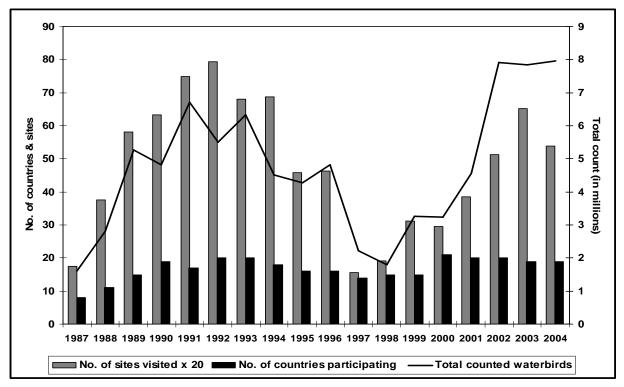
The level of development of the AWC differs in each country and region and, along with this coverage of sites also varies. Coverage and count results in Bangladesh, Sri Lanka, Malaysia, the Philippines, Singapore, Hong Kong, Taiwan, Japan, Republic of Korea and Australia during this period were generally very good. Coverage in Pakistan, Indonesia, Myanmar, Thailand and mainland China has increased substantially compared to the number of sites surveyed during the 1997–2001 period. While an increase is also reflected in information received from India during this period, the number of sites covered in India in the last decade is smaller than the nearly 1,000 sites covered in 1994, which was achieved when a large number of very small sites were also counted by a larger network of participants.

Country	AWC Sites in 2002– 2004	Ramsar Sites	World Heritage Sites	MAB Reserves	Important Bird Areas*	EAAF Waterbird Network Sites	Sites with > 20,000 Waterbirds	No. of Sites Meeting >1% Criterion
Bangladesh	61	2	1		8		5	22
Bhutan	6				1			1
India	904	11	1		63		43	172
Maldives	2							
Nepal	11	2	1		3			3
Pakistan	109	16			23		5	18
Sri Lanka	112	2			13		6	23
South Asia	1,205	33	3		111		59	239
Brunei	9				3			
Cambodia	7		1	1	5		1	2
Indonesia	69	1			6			3
Malaysia	61	1			7	1		8
Myanmar	114	1			11		1	17
Philippines	72	3			10	2		22
Singapore	10				2	1		
Thailand	49	3			8	1	2	8
Vietnam	17	2		2	6			2
Southeast								
Asia	408	11	1	3	58	5	4	62
China								
Mainland	95	12		1	23	9	7	38
Hong Kong	3	1			1	1	1	1
Macao	1				1			1
Taiwan	42				18			12
Japan	122	12			37	12	5	27
Republic of Korea	121	2		1	28	4	12	54
Mongolia	1	1			1			
Eastern Russia	3				2			
East Asia	388	28		2	111	26	25	133
Australia	31	7		1	*	5	8	20
Total	2,032	79	4	6	280	36	96	454

Table 2: Summary of sites surveyed in AWC 2002–2004 in the Asia-Pacific region

Note: * IBAs of Australia are being compiled by Birds Australia.





3.1.2 Internationally important waterbird sites

A total of 459 sites meet two criteria for international importance (Figure 5 and Table 3), however only 10% (45 sites) of these sites have been nominated as Ramsar sites. Ninety-six sites, about 4.7% of the total number covered, have been reported each to support more than 20,000 birds, however of these sites only 22% (21 sites) have been nominated as Ramsar sites. Four hundred and fifty-four sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Figure 5: Location of sites meeting international importance criteria during the AWC, 2002–2004

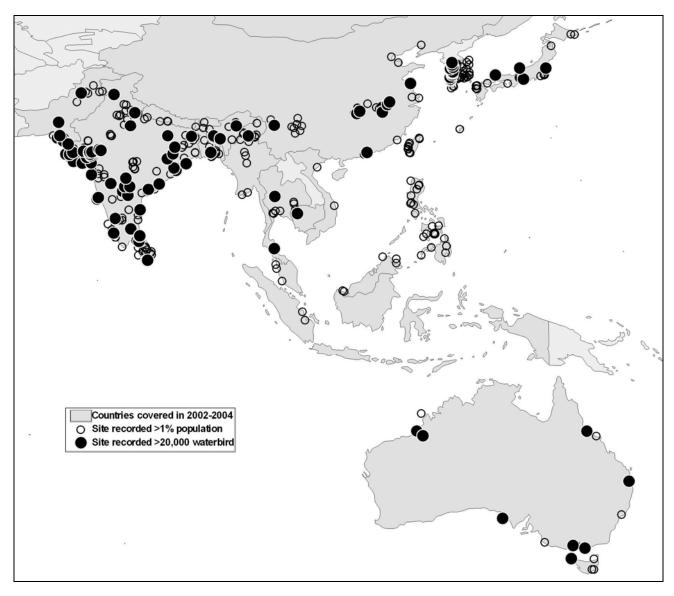


Table 3: List of internationally important sites surveyed for AWC 2002–2004 in the Asia-Pacific region

Country	Region	Site Name	Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
Australia	New South Wales	Hunter Estuary	S32°50', E152°00'	2		R,S
Australia	Queensland	Bowen	S20°00', E148°14'	5		
Australia	Queensland	Moreton Bay	S27°15′, E153°06′	8	YES	R,S
Australia	Queensland	Townsville	S19°15′, E146°49′	7	YES	
Australia	South Australia	South East Coast – South Australia	S37°40′, E140°30′	1		
Australia	South Australia	Western Eyre Peninsula	S33°30′, E134°15′	7	YES	
Australia	Tasmania	Cape Portland	S40°45′, E147°52′	1		

Country	Region	Site Name	Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
Australia	Tasmania	East Derwent (Pittwater)	S42°48′, E147°35	2		pR
Australia	Tasmania	Marion Bay	S42°48′, E147°53′	1		
Australia	Tasmania	Tasmania – North West Coast	S40°45', E144°30'	6	YES	
Australia	Victoria	Altona	S37°52', E144°51'	1		
Australia Australia	Victoria Victoria	Bellarine Peninsula	S38°16', E144°46' S38°45', E146°31'	3 6	YES YES	R,S
Australia	Victoria	Corner Inlet East Corner Inlet West	S38°45′, E146°33′	2	TES	- к,з
Australia	Victoria	Eastern Port Phillip	S38°05', E145°05'	1		R,S
Australia	Victoria	Werribee	S38°02', E144°32'	4		R,5
Australia	Victoria	Westernport Bay	S38°15′, E145°17′	4		R,S,pM
Australia	Western Australia	Eighty Mile Beach	S19°14', E121°25'	12	YES	R
Australia	Western Australia	Broome	S19°58', E122°20'	9	YES	
Australia	Western Australia	Swan River	S16°31', E122°04'	1		
Bangladesh	Barisal	Banger Char	N22°39', E090°44'	1		
Bangladesh	Barisal	Doba Char	N22°38', E090°50'	1		
Bangladesh	Barisal	Gazipur Char	N22°46', E090°40'	4		
Bangladesh	Barisal	Kalkiny Char	N21°50', E090°49'	1		
Bangladesh	Barisal	Kazir Char	N22°44′, E090°31′	1		
Bangladesh	Barisal	Mudflat in East of Moulovir Char	N22°26', E091°28'	1		
Bangladesh Bangladesh	Barisal Barisal	Shahjalal Char Tagrar Char	N21°52', E090°46' N22°32', E090°40'	4	YES	
Bangladesh	Barisal	Urir Char	N22°35′, E091°24′	2	TES	
Bangladesh	Chittagong	Jahaimara	N22°04′, E091°01′	<u> </u>		
Bangladesh	Chittagong	Muhuri Dam	N22°50′, E091°28′	1		
Bangladesh	Chittagong	Patenga Beach	N22°18', E091°52'	1		
Bangladesh	Dhaka	Dighirpar	N23°25′, E090°27′	1		
Bangladesh	Rajshahi	Sirajganj (Jamuna River)	N24°29′, E089°44′	1		
Bangladesh	Sylhet	Aila Beel	N24°53′, E091°13′	4	YES	
Bangladesh	Sylhet	Chatidhara Beel	N24°59', E091°08'	1	YES	
Bangladesh	Sylhet	Hakaluki Haors	N24°40', E092°05'	2	YES	
Bangladesh	Sylhet	Pana Beel	N25°07', E091°06'	1		
Bangladesh	Sylhet	Pashua Haor	N25°02', E091°05'	1		
Bangladesh	Sylhet	Rowa Beel	N25°08', E091°06'	1		
Bangladesh	Sylhet	Shonir Haor	N25°02', E091°09'	1		
Bangladesh	Sylhet	Tangua Haor Complex	N25°08', E091°06'	13	YES	R,I
Bhutan	Thimphu	Babesa Sewerage Station	N27°26′, E089°40′	1		
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	N13°47′, E103°18′	9	1/50	
Cambodia	Battambang	Prek Toal	N13°08', E103°38'	9	YES	
China China	Mainland, Anhui Mainland, Anhui	Anqingyanjiang NR: Baidang Hu Anqingyanjiang NR: Bo Hu	N30°47', E117°22' N30°10', E116°30'	3 4	YES	I,S
China	Mainland, Anhui	Angingyanjiang NR: Caizi Hu	N30°49′, E117°05′	6	-	
China	Mainland, Anhui	Angingyanjiang NR: Daguan Hu	N30°05′, E116°17′	2	-	
China	Mainland, Anhui	Angingyanjiang NR: Fengsha Hu	N30°55′, E117°36′	2	-	
China	Mainland, Anhui	Angingvanijang NR: Huang Hu	N30°01′, E116°29′	1	-	
China	Mainland, Anhui	Anqingyanjiang NR: Long Gan Hu	N30°08', E116°12'	1	-	
China	Mainland, Anhui	Anqingyanjiang NR: Qili He	N30°32', E116°58'	1	-	
China	Mainland, Anhui	Anqingyanjiang NR: Wuchang Hu	N30°17', E116°42'	4	_	
China	Mainland, Anhui	Sheng Jin Hu NR	N30°21′, E117°05′	9	YES	I,C,S
China	Mainland, Guizhou	Caohai NR	N26°50', E104°15'	4		I,C
China	Mainland, Hubei	Changjiangudao Baijitun NR	N29°50', E112°35'	1		
China	Mainland, Hubei	Chen Hu NR	N30°31', E114°05'	5		
China	Mainland, Hubei	Long Gan Hu	N29°50′, E116°08′	1		<u> </u>
China	Mainland, Hubei	Tian Er Zhou Milu NR	N29°48′, E112°33′	1		
China	Mainland, Hubei	Wang Hu And Supo Hu	N29°52', E115°22'	3	VEC	DI
China China	Mainland, Hunan Mainland, Hunan	East Dongting Lake NR Heng Ling Hu – He Ye Hu	N29°15', E112°55' N28°50', E112°42'	<u>14</u> 2	YES	R,I
China	Mainland, Hunan Mainland, Hunan	Kongjia Hu	N28°51', E112°13'	1		
China	Mainland, Hunan	South Dongting Lake NR	N28°50′, E112°30′	4	YES	R
China	Mainland, Hunan	Taibai Hu	N29°03′, E112°09′	1	1123	N
China	Mainland, Hunan	West Dongting Lake NR	N29°01′, E112°05′	3		R
China	Mainland, Jiangsu	Shang Hu	N31°39′, E120°41′	1		
China	Mainland, Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	N34°00', E120°30'	11	YES	R,I,C,S,M
China	Mainland, Jiangxi	Poyang Lake	N29°05', E116°17'	21	YES	R,I,C
China	Mainland, Jiangxi	Sai Cheng Hu	N29°40', E115°50'	4		
China	Mainland, Liaoning	Shuangtai Hekou NR	N41°05', E122°05'	1		R,I,C,S
China	Mainland, Shandong	Yellow River Delta NR	N37°45′, E118°40′	1		I,C,S
China	Mainland, Shanghai	Chongming Island NR	N31°30', E121°45'	2		R,I,S
China	Mainland, Tianjin	Tianjin Haibin Yuchang Fish Farm	N38°50', E117°37'	1		
China	Mainland, Yunnan	Dashanbao NR	N26°00', E104°00'	1		R,I,C

Country	Region	Site Name	Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
China	Mainland, Yunnan	Huize County	N26°30', E103°05'	4		
China	Mainland, Yunnan	Lashihai Lake NR	N26°53', E100°09'	3	YES	R,I
China	Mainland, Yunnan	Ludian County	N27°05', E103°30'	1		
China	Mainland, Yunnan	Napahai NR	N27°52′, E099°38′	3		R,I
China China	Mainland, Yunnan	Qiaojia County Xundian County	N26°40', E102°45' N25°34', E103°15'	1 2		
China	Mainland, Yunnan Mainland, Yunnan	Yongshan County	N28°05′, E103°40′	2 1		
China	Hong Kong	Deep Bay	N22°32′, E114°00′	10	YES	R,I,A,S
China	Macao	Taipa – Coloane Mudflat	N22°12', E113°33'	1	125	
China	Taiwan Changhua	Han-Pao	N24°03′, E120°22′	4		
China	Taiwan Changhua	Hsi-Kang (Ta Cheng)	N23°51', E120°16'	1		
China	Taiwan Chiayi	Ao-Ku	N23°31', E120°08'	4		
China	Taiwan Chiayi	Pu-Tai	N23°21', E120°10'	3		
China	Taiwan Chinmen	Chin-Men Island	N24°30', E118°30'	2		
China	Taiwan Ilan	Chu-An	N24°50', E121°48'	2		
China	Taiwan Ilan	Lan-Yang-Hsi (River)	N24°43′, E121°49′	3		
China	Taiwan Kaohsiung	Feng-Shan Reservoir	N22°33′, E120°23′	1		
China	Taiwan Kaohsiung	Kao-Ping-Hsi (River)	N22°30', E120°20'	2		
China	Taiwan Pingtung	Tung Kung Szu-Tsao	N22°27', E120°27' N23°03', E120°09'	3		1
China China	Taiwan Tainan Taiwan Tainan	S2U-1580 Tseng-Wen Hsi (River) / Chi Ku	N23°05', E120°05'	4		
India	Andhra Pradesh	Anantaram Tank	N23 00, E120 00	4 1		I
India	Andhra Pradesh	Chikkadapally		3		
India	Andhra Pradesh	Chinatumbulum Tank	N15°40', E077°15'	4		
India	Andhra Pradesh	Coringa Wildlife Sanctuary	N16°50′, E082°17′	3		pl
India	Andhra Pradesh	Kulleru Wetland: Godavari River	N16°47′, E081°23′	2	YES	R,I
India	Andhra Pradesh	Kolleru Wetland: Penumaka Lanka	N16°30', E081°05'	4	-	· ·
India	Andhra Pradesh	Ibrahimpatan Lake	N17°12', E078°35'		YES	
India	Andhra Pradesh	Jamukula – Dinni		1		
India	Andhra Pradesh	Kandukuru	N13°44′, E078°25′	1		
India	Andhra Pradesh	Kondakarla Lake	N17°36', E082°59'	3		
India	Andhra Pradesh	Laknapur Project	N17°12', E077°50'		YES	
India	Andhra Pradesh	Manjira Wildlife Sanctuary	N17°36′, E082°59′	13	YES	
India	Andhra Pradesh	Mittakodur Tank	N16°30′, E077°30′	2	YES	
India	Andhra Pradesh	Nellapattu Pelican Sanctuary	N13°50', E079°57' N18°30', E078°00'	4	YES	I
India India	Andhra Pradesh Andhra Pradesh	Nizamsagar Dam Pulicat Lake Bird Sanctuary	N13°42′, E080°08′	4	YES	
India	Andhra Pradesh	Sangameshwara	N15°53', E078°18'	7	YES	I
India	Andhra Pradesh	Somasila Tank	1113 33, 2070 10	1	TLJ	
India	Andhra Pradesh	Telineela Puram	N19°07', E084°40'	1		
India	Andhra Pradesh	Thalamudupi	N15°52', E078°16'	1		
India	Andhra Pradesh	Uppalapadu Water Tank	N16°16', E080°22'	4		
India	Andhra Pradesh	Velamavari Palwem		1		
India	Assam	Bordoloni	N27°25', E094°23'	1		pl
India	Assam	Chenamari Beel	N26°45′, E094°13′	3		
India	Assam	Dhir Beel	N26°17', E090°27'	1		
India	Assam	Kaziranga National Park	N26°40', E093°21'	1		I,W
India	Assam	Kuarbari-Dalani	N27°04', E094°15'	2		
India	Assam	Kokilamukh Misamari Beel	N27°13′, E094°28′	1	YES	
India India	Assam Bihar	Vikramshila Ganga Dolphin Sanctuary	N26°48', E094°30' N25°17', E086°56'	3	TES	
India	Delhi/U.P	Yamuna River: Okhla Barrage Bird Sanctuary	N28°40′, E077°10′	1		I
India	Goa	Chapora Estuary: Marjim – 'Tembwado' Coastline	N15°18', E073°44'	1	YES	1
India	Goa	Curtorim Lake	N15°16′, E075°57′	1	TES	
India	Goa	Macasana Tanks	N15°15′, E073°59′	2		
India	Goa	Mandovi Estuary	N15°32', E073°53'	2	YES	
India	Gujarat	Amipur Tank	N21°05', E070°10'	5	YES	
India	Gujarat	Boriyala Tank	N22°37′, E072°56′	1		
India	Gujarat	Charakla Saltworks	N22°20', E069°05'	2		
India	Gujarat	Chhari Dhandh	N23°10', E069°45'	2		pl
India	Gujarat	Chhaya Creek (Sewerage)	N21°37′, E069°35′	1		
India	Gujarat	Dedadra Talav	N22°42′, E071°40′	1		
India	Gujarat	Dev Dam Dhali Dhaia Dam	N23°00', E074°00'	2	YES	_
India	Gujarat	Dholi Dhaja Dam	N22°45', E071°40'	1	VEC	
India India	Gujarat	Great Rann of Kachchh	N23°51', E069°24'	1	YES	_
India India	Gujarat Gujarat	Guneli Hamirsar Tank	N22°30', E073°25' N23°10', E069°45'	1		
India	Gujarat	Hamirsan Tank Hathab (Via Koliyak) – Sea Shore	N23 10', E069 45' N21°36', E072°16'	1		
	Jujarat	ratian (via rollyar) = 3 ca SHOLe	N21°30', E072°42'	I		

Country	Region	Site Name	Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
India	Gujarat	Jafarabad Coast (Salt Works)	N20°50', E071°30'	1	YES	
India India	Gujarat Gujarat	Jamnagar District: Dhrol Taluka wetlands Jamnagar District: Dwaraka Taluka wetlands	N22°35', E070°25' N22°15', E069°02'	5	YES	
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	N22°30′, E070°05′	7	YES	
India	Gujarat	Jamnagar District: Jodiya Taluka wetlands	N22°42', E070°18'	1		
India	Gujarat	Jamnagar District: Kalyanpur Taluka wetlands	N22°10', E069°25'	1		
India	Gujarat	Jamnagar District: Khambhalia Taluka wetlands	N22°12′, E069°37′	5	YES	
India India	Gujarat Gujarat	Jesola Kabutni Dam	N22°30', E073°25' N22°58', E073°56'	2		
India	Gujarat	Kalubhar Dam	N21°45′, E072°10′	1		
India	Gujarat	Kanewal	N22°28′, E072°32′	2	YES	
India	Gujarat	Karli Dam	N21°37', E069°35'	1		
India	Gujarat	Khirjog	N22°47′, E071°30′	1		
India	Gujarat	Korda Sandher	N24°25′, E072°20′	1		
India	Gujarat	Krushnakunj Lake Kumbharwada Sewage Pond	N21°35′, E073°05′	2		
India India	Gujarat Gujarat	Lakhota Lake	N21°46', E072°11' N22°30', E070°05'	1		
India	Gujarat	Lambhvel Sewage Pond	N22°35′, E072°57′	5	YES	
India	Gujarat	Machhan Nala Dam	N22°50', E074°14'	2		
India	Gujarat	Madhavpura Marsh	N22°45′, E072°45′	2		
India	Gujarat	Mahi River Estuary: Sarod 'J' Point	N22°01', E072°45'	1	YES	
India	Gujarat	Medha Creek	N21°37′, E069°35′	1		
India India	Gujarat Gujarat	Morva Hadaf Dam (Patangdi) Nagarala Pond	N22°49', E074°16' N22°53', E074°19'	3	YES	
India	Gujarat	Nagarama Village Pond	N22°37', E072°39'	1		
India	Gujarat	Naika Dam	N22°45′, E071°40′	3		
India	Gujarat	Nakti Creek (New Kandla)	N23°10′, E070°10′	1		
India	Gujarat	Nani Kakrad	N20°51', E072°50'	3	YES	
India	Gujarat	Narda Tank	N22°30', E073°00'	2		
India	Gujarat	Narmada Main Canal		2		
India India	Gujarat	Nava Talao	N23°15′, E071°45′	4 6		
India	Gujarat Gujarat	New Port Saltpans, Bhavnagar Nikol Bandhara	N21°49', E072°23' N21°04', E071°50'	2		
India	Gujarat	Nyari-I	N22°09′, E070°42′	2		
India	Gujarat	Onchal Lake	N20°46', E072°59'	2		
India	Gujarat	Par	N24°23′, E072°21′	2		
India	Gujarat	Pariej	N22°33′, E072°38′	3	YES	
India	Gujarat	Phophal-I Dinglary Deputy (Keitheles)	N21°45′, E070°25′	2		
India India	Gujarat Gujarat	Pipalava Bandharo (Kaj Lake) Ratneshvar Tank	N22°15', E072°40' N23°00', E074°06'	6	YES	
India	Gujarat	Sorathi Dam	N21°36', E069°35'	1		
India	Gujarat	Sudamda Ponds	N22°30′, E071°28′	2		
India	Gujarat	Tapi River at Surat Causeway	N21°02', E072°52'	1		
India	Gujarat	Timbi Tank	N22°30', E069°30'	1		
India	Gujarat	Veri Dam	N21°09′, E070°09′	1		
India	Gujarat	Victor (Bherai) Salt Pans and Coastal Area	N21°43′, E072°10′	4	YES	
India India	Gujarat Gujarat	Victor (Bherai) and Sakriya Hanuman Pond Whadhwana	N21°06', E079°37' N22°42', E071°41'	2	YES	
India	Haryana	Basai Wetlands	N28°29′, E076°59′	1	TES	1
India	Haryana	Bhindavas Lake Bird Sanctuary	N28°37′, E076°40′	1		İ
India	Himachal Pradesh	Pong Dam Bird Sanctuary	N32°04′, E076°13′	9	YES	R,I
India	Jharkhand	Roka Lake	N23°21′, E085°19′	1	YES	
India	Karnataka	Byramangala Reservoir	N12°30′, E077°26′	1		
India India	Karnataka Karnataka	Dadada Halli Tank Hadinarli	N12°12', E076°38' N12°10', E076°45'	1		
India	Karnataka	Kallur Tank	N12°09', E077°03'	1		
India	Karnataka	Karigala Tank	N12°08′, E077°25′	1		
India	Karnataka	Krishna River – Karnataka	N16°21′, E077°24′	1		
India	Karnataka	Krishnaraja Sagar Reservoir	N12°24′, E076°25′	1	YES	
India	Karnataka	Kunthur Tank	N12°08′, E077°02′	1		
India	Kerala	Kattampally Kalo Wattands	N11°35′, E075°20′	9	YES	
India India	Kerala Kerala	Kole Wetlands Purathur (Bharatapuza) Estuary	N10°12', E076°10' N10°46', E075°56'	9 1	TES	I
India	Kerala	Vembanad: Kumarakom Tourist Complex	N09°36', E076°26'	1		
India	Kerala	Vembanad: Thollairam Kayal	N09°33′, E076°25′	1		
India	Kerala	Vembanad: Vembanad Lake	N09°35', E076°25'	1		R,I
India	Maharashtra	Ambazari Reservoir	N21°00', E079°00'	1		
India	Maharashtra	Ashband	N19°55′, E079°20′	1		
India	Maharashtra	Asolamendha Tank	N19°57', E079°17'	1		

Country	Region	Site Name	Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
India	Maharashtra	Chargaon Lake	N20°15', E079°05'	1		
India	Maharashtra	Hipparga Tank	N17°40', E075°45'	3	YES	
India	Maharashtra	Irai Dam	N19°58', E079°20'	1		
India	Maharashtra	Kangaon-Nangaon	N18°32', E073°52'	4		
India	Maharashtra	Nandur Madhemeshwar Wildlife Sanctuary	N20°00', E074°01'	4		
India	Maharashtra	Pedgaon (Bhima River)	N19°05', E074°44'	2		
India India	Maharashtra Maharashtra	Pipriya Lake, Pench Tiger Project Sewree Jetty	N21°00', E079°03' N19°01', E072°52'	4	YES	
India	Maharashtra	Shimpore – Khed	N19 01, E0/2 52	2	TES	
India	Maharashtra	Thane Creek (Thane-Ulhas Estuary)	N19°10′, E073°50′	1		I
India	Maharashtra	Visapur Tank	N18°41′, E074°44′	1		1
India	Maharashtra	Wadgaon	N21°04', E079°06'	1		
India	Manipur	Ithai Wapokpi – Nongma Ikhong	N24°34′, E093°49′	1		
India	Manipur	Logtak Lake	N24°35′, E093°50′	1		R,I
India	Orissa	Bhitarkanika Mangrove	N20°45′, E087°00′	16	YES	R,I
India	Orissa	Chilika Lake	N19°42′, E085°28′	54	YES	R,I
India	Orissa	Denua	N19°48′, E085°50′	1	120	
India	Orissa	Ekamrakanan Tank	N20°12', E084°55'	1		
India	Orissa	Harabhangi	N25°10', E084°15'	8	YES	
India	Orissa	Hirakud Reservoir	N21°30', E084°10'	13	YES	
India	Orissa	Kalo Reservoir	N21°40', E086°41'	1		
India	Orissa	Kamarkhunti Dam	N20°20', E085°32'	1		
India	Orissa	Mandira Reservoir	N22°25', E084°60'	1		
India	Orissa	Mukutmonipur		2		
India	Orissa	Pampalo	N20°04', E085°10'	1	YES	
India	Orissa	Rengali	N22°16', E085°02'	4	YES	
India	Orissa	Sundar Dam	N19°35', E082°35'	1		
India	Rajasthan	Bardha Dam	N25°27', E075°39'	1		
India	Rajasthan	Kishore Sagar	N25°09', E075°52'	1		
India	Rajasthan	Vardha Dam	N25°14', E075°42'	3		
India	Tamil Nadu	Andi Odai Tank	N10°58', E078°55'	1		
India	Tamil Nadu	Kaliveli Tank	N12°10', E079°50'	1		pl
India	Tamil Nadu	Karavetty Tank	N10°50', E078°45'	5	YES	
India	Tamil Nadu	Koonthankulam Bird Sanctuary	N08°28′, E077°44′	1		<u> </u>
India	Tamil Nadu	Suchindram Tank	N08°09', E077°27'	1		
India	Tamil Nadu	Tenneri Tanks	N12°55', E079°50'	1		
India	Uttar Pradesh	Ashpan	N27°52', E078°12'	1		
India	Uttar Pradesh	Baadi Taal	N27°57′, E080°46′	1		
India	Uttar Pradesh	Katernia Ghat Sanctuary	N28°14', E081°11'	2		<u> </u>
India	Uttar Pradesh	Nanakmata Reservoir	N28°57', E079°50'	2	VEC	<u> </u>
India	Uttar Pradesh	National Chambal Wildlife Sanctuary	N26°49', E078°41'	5	YES	I
India	Uttar Pradesh	Pili Dam	N29°22', E078°00'	4		1
India India	Uttar Pradesh Uttarakhand	Sur Sarovar Bird Sanctuary Asan Barrage	N27°00', E077°45' N30°26', E077°42'	2		<u> </u>
India	Uttarakhand	Baur Reservoir	N29°00', E079°10'	1		I
India	Uttarakhand	Dehra Dun	N30°19', E078°02'	1		
India	Uttarakhand	Haripura Reservoir	N29°00', E079°20'	1	YES	
India	Uttarakhand	Tumeria Dam	N29°27′, E078°46′	1	TLJ	
India	West Bengal	Alipore Zoological Gardens	N22°32′, E088°20′	1		
India	West Bengal	Baghar Beel	N24°27′, E088°03′	1		
India	West Bengal	Ballavpur Wildlife Sanctuary	N22°30′, E088°20′	1		
India	West Bengal	Farakka Barrage (Ganges River)	N25°05′, E087°48′	6	YES	1
India	West Bengal	Gajaldoba Teesta Barrage	N26°40′, E088°25′	1	120	
India	West Bengal	Naya Bandh Bill	N24°55′, E088°19′	1		1
India	West Bengal	Panchet Dam	N23°40′, E086°40′	1		·
India	West Bengal	Saheb Bandh	N23°20', E086°22'	1		
India	West Bengal	Satbeki Bill	N26°29′, E089°32′	1		
India	West Bengal	Tilpara Barrage	N23°58′, E087°26′	1		
Indonesia	Jambi	Berbak National Park	S01°23′, E104°20′	2		pR,I
Indonesia	Jambi	Sungai Cemara Beach	S01°05', E101°40'	2		1
Indonesia	Sumatra South	Banyuasin Delta	S02°37', E104°45'	1		
Japan	Aichi	Kiso River Mouth	N35°04', E136°40'	3		
Japan	Aichi	Shio Kawa Tideland	N34°42', E137°17'	1		I
Japan	Aichi	Toyokawa River Mouth	N34°46', E137°23'	1	YES	
Japan	Aichi	Uno Pond	N34°48′, E136°53′	1		
Japan	Aomori	Ogawara Lake	N40°56', E141°28'	2		pl
Japan	Chiba	Banzu	N35°20', E139°55'	1		pl
Japan	Chiba	lioka Kaigan	N35°42', E140°27'	1		
Japan	Chiba	Magame-Gawa, Sakuda-Gawa	N35°31′, E140°27′	1		

Japan F Japan F Japan F Japan F Japan F Japan G Japan H Japan H Japan H Japan H Japan H Japan H Japan G Japan	Chiba Fukuoka Fukuoka Fukuoka Fukuoka Gifu Hokkaido Hokkaido Ibaragi Ibaraki Ishikawa Okinawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Chungnam	Sakuda-Gawa, Kido-Gawa East Region of Ariake Sea East Region of Hakata Bay Imazu Wajiro Higata Nagara River Kushiro Marsh and surrounding Rivers Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N35°33', E140°30' N33°05', E130°25' N33°35', E130°20' N33°36', E130°15' N33°41', E130°25' N35°16', E136°48' N43°10', E144°25' N43°09', E144°59' N36°12', E140°40' N36°45', E130°47' N36°44', E136°47' N36°44', E136°44' N26°18', E127°49' N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	1 2 2 1 1 1 1 1 5 3 1 1 1 2 1 3 3 1 1 5 5 3 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	YES YES YES YES	pl pl R,I,A,C
Japan F Japan F Japan F Japan F Japan F Japan F Japan H Japan H Japan H Japan H Japan H Japan C Japan	Fukuoka Fukuoka Fukuoka Gifu Fukuoka Gifu Hokkaido Ibaragi Ibaraki Ishikawa Ishikawa Okinawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam	East Region of Hakata Bay Imazu Wajiro Higata Nagara River Kushiro Marsh and surrounding Rivers Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N33°35', E130°20' N33°36', E130°15' N33°41', E130°25' N35°16', E136°48' N43°10', E144°25' N43°09', E144°59' N36°12', E140°40' N36°45', E140°41' N36°45', E136°47' N36°45', E136°44' N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°22', E133°11' N34°05', E131°57' N35°08', E128°55' N35°09', E128°58' N37°00', E128°56'	2 2 1 1 1 1 5 3 1 1 1 1 2 1 1 2 1 3 3 3 1 6 2	YES	PI R,I,A,C I I R,I,A,C
Japan F Japan F Japan G Japan H Japan H Japan H Japan H Japan H Japan H Japan G Japan	Fukuoka Fukuoka Gifu Hokkaido Hokkaido Ibaragi Ibaraki Ishikawa Ishikawa Okinawa Okinawa Okinawa Okinawa Okinawa Okinawa Okinawa Okinawa Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Busan Chungbuk Chungnam Chungnam	Imazu Wajiro Higata Nagara River Kushiro Marsh and surrounding Rivers Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N33°36', E130°15' N33°41', E130°25' N35°16', E136°48' N43°10', E144°25' N43°09', E144°59' N36°12', E140°40' N36°45', E140°41' N36°45', E136°47' N36°45', E136°44' N26°18', E127°49' N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°22', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°58'	2 1 1 1 1 5 3 1 1 1 2 1 3 3 3 1 6 2	YES	R,I,A,C R,I,A,C I I I R R,I
Japan F Japan C Japan C Japan H Japan H Japan H Japan H Japan H Japan H Japan C Japan	Fukuoka Gifu Hokkaido Hokkaido Ibaragi Ibaraki Ishikawa Ishikawa Okinawa Okinawa Okinawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Busan Chungbuk Chungnam Chungnam Chungnam	Wajiro Higata Nagara River Kushiro Marsh and surrounding Rivers Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N33°41', E130°25' N35°16', E136°48' N43°10', E144°25' N43°09', E144°59' N36°12', E140°40' N36°45', E140°41' N36°45', E136°47' N36°45', E136°44' N26°18', E127°49' N26°18', E127°49' N36°00', E135°00' N33°10', E130°16' N35°32', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°58'	1 1 1 1 5 3 1 1 1 2 1 2 1 3 3 1 6 2	YES	R,I,A,C I I I R R,I
Japan C Japan H Japan H Japan H Japan H Japan H Japan H Japan C Japan C Korea	Gifu Hokkaido Hokkaido Ibaragi Ishikawa Ishikawa Okinawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Busan Chungbuk Chungnam Chungnam Chungnam	Nagara River Kushiro Marsh and surrounding Rivers Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N35°16', E136°48' N43°10', E144°25' N43°09', E144°59' N36°12', E140°40' N36°45', E140°41' N36°45', E136°47' N36°45', E136°44' N26°18', E127°49' N26°18', E127°49' N36°00', E135°00' N33°10', E130°16' N35°32', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°56'	5 3 1 1 2 1 3 3 3 1 6 2	YES	R,I,A,C I I I R R,I
Japan H Japan H Japan H Japan H Japan H Japan H Japan G Japan	Hokkaido Hokkaido Ibaragi Ishikawa Ishikawa Okinawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Busan Chungbuk Chungnam Chungnam Chungnam	Kushiro Marsh and surrounding Rivers Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N43°10', E144°25' N43°09', E144°59' N36°12', E140°40' N36°45', E140°41' N36°45', E136°47' N36°45', E136°44' N26°18', E127°49' N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°32', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°58'	5 3 1 1 2 1 3 3 3 1 6 2	YES	R,I,A,C I I I R R,I
Japan H Japan II Japan II Japan II Japan II Japan C Japan C Japan C Japan C Japan C Japan S Japan S Ja	Hokkaido Ibaragi Ibaraki Ishikawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Busan Chungbuk Chungnam Chungnam Chungnam	Kushiro: Akkeshi Lake Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N43°09', E144°59' N36°12', E140°40' N36°45', E140°41' N36°45', E136°47' N36°45', E136°47' N26°18', E127°49' N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°58'	5 3 1 1 2 1 3 3 3 1 6 2	YES	I I R R,I
Japan II Japan II Jap	Ibaragi Ibaragi Ishikawa Ishikawa Okinawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Busan Chungbuk Chungnam Chungnam Chungnam	Kitaura Kasumigaura Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N36°12', E140°40' N36°45', E140°41' N36°44', E136°47' N36°45', E136°44' N26°18', E127°49' N36°00', E135°00' N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	5 3 1 1 2 1 3 3 3 1 6 2	YES	R,I
Japan II Japan II Japan II Japan C Japan C Japan C Japan C Japan S Japan S Jap	Ishikawa Ishikawa Okinawa Osaka Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Kahokugata Takamatsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N36°45', E140°41' N36°44', E136°47' N36°45', E136°44' N26°18', E127°49' N36°00', E135°00' N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	3 1 1 2 1 3 3 3 1 6 2	YES	R,I
Japan III Japan C Japan C Japan C Japan S Japan S Japan S Japan S Japan S Japan S Japan S Japan S Korea E Korea C Korea C K	Ishikawa Okinawa Okinawa Osaka Saga Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Takamalsu, Kahoku Kaigan Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N36°45', E136°44' N26°18', E127°49' N36°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	1 1 2 1 3 3 1 6 2	YES	R,I
Japan C Japan C Japan C Japan S Japan S Japan S Japan S Japan S Japan S Japan S Korea E Korea C Korea C K	Okinawa Okinawa Osaka Saga Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Awase Higata Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N26°18', E127°49' N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	1 2 1 3 3 1 6 2		R,I
Japan C Japan C Japan S Japan S Japan S Japan S Japan Y Korea E Korea C Korea C K	Okinawa Osaka Saga Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Hiyagon Shicchi Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N26°18', E127°49' N34°00', E135°00' N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	1 2 1 3 3 1 6 2		R,I
Japan C Japan S Japan S Japan S Japan S Japan Y Korea E Korea C Korea C K	Osaka Saga Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Yodogawa River Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N34°00', E135°00' N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	2 1 3 1 6 2		R,I
Japan S Japan S Japan S Japan Y Korea E Korea E Korea C Korea C	Saga Shimane Shimane/Tottori Yamaguchi Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Daijugarami Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N33°10', E130°16' N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	1 3 3 1 6 2		R,I
Japan S Japan S Japan Y Korea E Korea E Korea C Korea C	Shimane Shimane/Tottori Yamaguchi Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Shinji Lake Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N35°32', E133°04' N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	3 1 6 2		R,I
Japan S Japan Y Korea E Korea E Korea C Korea C	Shimane/Tottori Yamaguchi Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Nakaumi Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N35°28', E133°11' N34°05', E131°57' N35°08', E1285°5' N35°09', E1285°58' N35°00', E128°58' N37°00', E128°06'	3 1 6 2		R,I
Japan Y Korea E Korea C Korea C	Yamaguchi Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Yashiro Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N34°05', E131°57' N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	1 6 2		
Korea E Korea E Korea C	Busan Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Nakdong Estuary Lower Nakdong River Chungju Reservoir Bunam Reservoir	N35°08', E1285°5' N35°09', E128°58' N37°00', E128°06'	2		
Korea E Korea C	Busan Chungbuk Chungnam Chungnam Chungnam Chungnam	Lower Nakdong River Chungju Reservoir Bunam Reservoir	N35°09', E128°58' N37°00', E128°06'	2		
Korea C	Chungnam Chungnam Chungnam Chungnam	Chungju Reservoir Bunam Reservoir	N37°00', E128°06'			
Korea C	Chungnam Chungnam Chungnam			1		
Korea C	Chungnam Chungnam	Daechung Reservoir	N36°40′, E126°21′	2		
Korea C	Chungnam		N36°25′, E127°29′	1		
KoreaCKoreaCKoreaCKoreaCKoreaCKoreaC		Daeho Lake	N36°50′, E126°25′	2		
KoreaCKoreaCKoreaCKoreaCKoreaC		Ganwol Reservoir	N36°39′, E126°27′	5	YES	
KoreaCKoreaCKoreaCKoreaC	Chungnam	Geum River Estuary Geum River Reservoir	N36°00', E126°42' N36°04', E126°49'	3	YES YES	I
KoreaCKoreaCKoreaC	Chungnam Chungnam	Janghang Coast	N36°00', E126°45'	2 4	TES	
Korea C Korea C	Chungnam	Nonsan Reservoir	N36°20', E127°10'	1		
Korea C	Chungnam	Sapkyo Lake	N36°53′, E126°51′	2	YES	pl
	Chungnam	Sekmun Reclaimed Area	N37°00', E126°38'	1	120	p.
Korea C	Chungnam	Tapjeong Reservoir	N36°11', E127°10'	1		
Korea C	Chungnam	Yubu Island	N35°59', E126°36'	4		
	Gangwon	Cheolwon Basin	N38°15′, E129°13′	4		I,C
	Gangwon	Gangneung – Jumunjin Coast	N37°49′, E128°53′	1		
	Gyeongbuk	Andong Reservoir	N36°35′, E128°50′	1		
	Gyeongbuk	Haepyong, Gumi City	N36°10′, E128°22′	2		
	Gyeongbuk	Wondeok – Samcheok Coast Asan Lake	N37°24', E129°13' N36°51', E126°54'	1		nl
	Gyeonggi Gyeonggi	Han River (Haengju Bridge – Paland Dam)	N37°30′, E127°00′	1		pl
	Gyeonggi	Han River Estuary	N37°44′, E126°40′	7	YES	I,C
	Gyeonggi	Jungrang Stream	N37°34′, E127°02′	1	TLJ	1,0
	Gyeonggi	Namhan River	N37°30′, E127°27′	1		
	Gyeonggi	Paldang Dam	N37°32', E127°15'	1		
Korea C	Gyeonggi	Siwha Reservoir	N37°18', E126°42'	8	YES	
	Gyeongnam	Angae Reservoir	N35°15′, E127°06′	1		
	Gyeongnam	Dangdong Bay	N34°55′, E128°30′	1		
	Gyeongnam	Dongpan Reservoir	N35°19′, E128°41′	4		
	Gyeongnam	Hoiya Reservoir	N35°28', E129°17'	1		
	Gyeongnam Gyeongnam	Hyongsan River Jinyang Reservoir	N36°00', E129°15' N35°11', E127°59'	1		
	Gyeongnam	Junam Reservoirs	N35°18′, E128°41′	1		
	Gyeongnam	Sacheon Bay	N35°04′, E128°03′	1		1
	Gyeongnam	Taehwa River	N35°33′, E129°15′	1		
	Gyeongnam	Upo Marsh	N35°33', E128°25'	1		R,I
	Incheon	Gangwha Island: South Coast	N37°35′, E126°30′	2		
	Incheon	Youngjong Island	N37°22′, E126°23′	1		
	Jeju	Hamduck – Hadori Coast	N33°33', E126°50'	1		pМ
	Jeju	Seoguipo – Anduck Coast	N33°14′, E126°36′	1		pМ
	Jeju Jeanhult	Seongsanpo Lake	N33°29′, E126°55′	1	VEO	I,pM
	Jeonbuk	Dongjin River Estuary	N35°49', E126°42'	4	YES	I,S
	Jeonbuk Jeonbuk	Dongrim (Dongnim) Reservoir	N35°33' ,E126°42'	1	YES	
	Jeonduk Jeonnam	Mangyung River Estuary Gangjin Bay	N35°53', E126°44' N34°32', E126°46'	4	YES	
	Jeonnam Jeonnam	Gocheonam Reservoir	N34°32', E126°46 N34°33', E126°29'	2	YES	
	Jeonnam	Gunnae Reclaimed Area	N34°34′, E126°15′	1	TLS	
	Jeonnam	Gwangyang and Galsa Bay	N34°58′, E127°45′	3		
	Jeonnam	Hyungyungmyun, Muangun	N35°03', E126°25'	1	YES	

Country	Region	Site Name	Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
Korea	Jeonnam	Suncheon Bay	N34°52′, E127°30′	3		R,I,C
Korea	Jeonnam	Yeuja Bay	N34°48′, E127°26′	4		
Korea	Jeonnam	Youngsan Reservoir (Estuary)	N34°47′, E126°28′	4	YES	
Korea	Jeonnam	Yungam Reservoir	N34°38′, E126°23′	2		
Malaysia	Penang	Kuala Bekah (Telok Air Tawar) – Kuala Muda	N05°31′, E100°23′	2		<u> </u>
Malaysia Malaysia	Perak Sabah	Matang Forest Kinabatangan: Lower Floodplain	N04°55', E100°29' N06°23', E118°21'	<u> </u>		
Malaysia	Sabah	Kinabatangan: Terusan Kinabatangan	N05°45′, E118°23′	1		
Malaysia	Sabah	Mantanani Island	N06°42′, E116°20′	1		
Malaysia	Sarawak	Bako – Buntal Bay and surrounding areas	N01°42′, E110°21′	1		
Malaysia	Sarawak	K Samarahan – K Sadong (Asajaya – Pendam)	N01°35′, E110°35′	1		
Malaysia	Selangor	Kapar Power Station Ash Ponds	N03°08', E101°20'	5		pl
Myanmar	Ayeyarwady	Meinmahla Kyun Wildlife Sanctuary	N16°00', E095°20'	1		
Myanmar	Kachin	Byee Lake	N24°15′, E096°21′	1		
Myanmar	Kachin	Indaw R: Changgwa – Kahtangyaung	N25°16', E096°27'	1		
Myanmar	Kachin	Indaw R: Shwetaung – Chaungwa	N25°13′, E096°23′	1		
Myanmar	Kachin	Indaw-Gyi Lake	N25°09', E096°17'	5	YES	
Myanmar	Kachin Kachin	Irrawaddy R: Myitkyina to Sinbo	N25°05', E097°15'	9		I
Myanmar	Kachin	Nam Lah, Nam Yah Rivers (around Putao) Nam Sam Chaung (near Ayeyarwady)	N27°17', E097°34' N24°57', E097°15'	1		1
Myanmar Myanmar	Kachin	Sahmaw	N25°15′, E096°49′	1		1
Myanmar	Kachin	Yaimaw	N25°21′, E097°27′	1		
Myanmar	Mandalay	Minhla-Nyaung Yan Lake	N20°50′, E096°02′	2		
Myanmar	Sagaing	Chindwin R: Kalewa – Hkamti and to the north	N24°35′, E095°05′	6		
Myanmar	Sagaing	Maha Nandar Lake	N22°36′, E095°41′	1		1
Myanmar	Sagaing	Nan Ezu Stream (Htamanthi Wildlife Sanctuary)	N25°30′, E095°31′	1		•
Myanmar	Sagaing	Nga Yant In Lake	N25°42', E095°33'	1		
Myanmar	Sagaing	Yemyetkyi Inn	N22°01', E095°52'	1		
Myanmar	Yangon	Letkok Kon	N16°20', E096°10'	1		
Nepal	CR: Narayani	Chitwan National Park (CNP): Narayani River: Amaltari Ghat – Tribeni Ghat	N27°36', E083°05'	1		I,W
Nepal	CR: Narayani	CNP: Narayani River: Sigrauli – Amaltari Ghat	N27°38′, E084°10′	2		
Nepal	CR: Narayani	CNP: Rapti River: Gaight/Kasara – Narayani Confl	N27°34′, E084°15′	2		
Pakistan	Baluchistan	Aakra River Estuary (on Arabian Sea)	N25°13', E067°08'	1		
Pakistan	Baluchistan	Dasht Hor	N25°25', E060°25'	1		
Pakistan	Islamabad	Rawal Lake	N33°40′, E073°10′	1		
Pakistan	Punjab	Head Marala Barrage	N32°40′, E074°30′	1		
Pakistan Pakistan	Punjab Punjab	Head Qadirabad	N32°35', E074°05' N30°50', E070°40'	1		R,I
Pakistan	Punjab	Taunsa Barrage Ucchali Wetland Complex: Jahlar Lake	N32°20', E072°20'	1		R,I
Pakistan	Punjab	Ucchali Wetland Complex: Ucchali Lake	N32°33′, E072°00′	1		17,1
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	N32°20′, E071°20′	7	YES	R,I
Pakistan	Sindh	Drigh Lake	N27°34′, E067°54′	1	TES	R,I
Pakistan	Sindh	Haleji Lake	N24°48′, E067°47′	3	YES	R,I
Pakistan	Sindh	Hamal (Katchri) Lake	N27°24', E067°38'	1		Í
Pakistan	Sindh	Hudero Lake	N24°50', E067°52'	1		
Pakistan	Sindh	Jabho Lake	N24°18′, E068°36′	1		R,I
Pakistan	Sindh	Keenjhar Lake	N25°12', E068°08'	2	YES	R,I
Pakistan	Sindh	Lungh Lake	N27°26', E067°57'	3	YES	
Pakistan	Sindh	Nur-Ri Lake	N24°20', E068°40'	6	YES	R,I
Pakistan	Sindh	Phoosna	N24°51′, E068°53′	3		
Philippines	Luzon	Coastal Road Lagoons at Paranaque	N14°29′, E120°59′	1		
Philippines	Luzon	Carague Lake	N17°30', E121°47'	1		
Philippines	Luzon	Magat Dam Malasi Lake	N16°50', E121°25'	2		
Philippines Philippines	Luzon	Malasi Lake Manila Bay: Puerto Rivas, Balanga	N17°24', E121°41' N14°40', E120°30'	2		
Philippines	Luzon Luzon	Naujan Lake	N13°10', E121°11'	2		R,A,I
Philippines	Luzon	Paitan Lake	N15°52', E120°35'	1		1,7,1
Philippines	Luzon	Paoay Lake National Park	N18°07′, E120°32′	1		
Philippines	Luzon	Subic Bay	N14°48′, E120°38′	1		
Philippines	Mindanao	Agusan Marsh Wildlife Sanctuary	N08°17′, E125°52′	1		R,I
Philippines	Mindanao	Bonifacio Wetland	N08°03', E123°37'	1		
Philippines	Mindanao	Brgy. Lapaz, Carmen	N07°18', E125°43'	1		
Philippines	Mindanao	Lake Mainit	N09°26', E125°32'	2		
Philippines	Mindanao	Mampang Tugbungan Area	N06°54', E122°06'	1		
Philippines	Visayas	Bantayan Island Wildness Area	N11°13′, E123°43′	1		
Philippines	Visayas	Calituban and Tahong Island	N10°10', E124°10'	1		I
Philippines	Visayas	Carigara Bay Wetlands	N11°19', E124°40'	1		
Philippines	Visayas	Cordova Wetland	N10°04', E124°00'	1		

Country	, , , , , , , , , , , , , , , , , , ,		Coordinates	No. of Species Meeting 1% Criteria	>20,000 Waterbirds Recorded	Status*
Philippines	Visayas	Himamaylan, Kabankalan and Ileig Wetland	N10°06', E122°53'	1		
Philippines	Visayas	Mahaba Island	N10°05', E124°10'	1		
Philippines	Visayas	Olango Island Wildlife Sanctuary	N10°14', E124°02'	1		R,S,I
Philippines	Visayas	Sipalay Hinoba-An Wetland	N09°40', E122°25'	1		
Sri Lanka	СР	Minipe Canal	N07°25', E081°00'	2		
Sri Lanka	EP	Akkaraipattu to Batticaloa	N07°28', E081°48'	1		
Sri Lanka	EP	Akkaraipattu to Panama	N07°00', E081°50'	1		
Sri Lanka	EP	Ampara	N07°12', E081°41'	1		
Sri Lanka	NCP	Kaudulla Tank	N08°08', E080°55'	1		pl
Sri Lanka	NCP	Minneriya National Park	N08°02', E080°51'	1		pl
Sri Lanka	NCP	Pimburettawa Tank	N07°42', E081°10'	1		
Sri Lanka	NCP	Wasgomuwa National Park	N07°30', E080°30'	2		
Sri Lanka	NP	Adam's Bridge Islands	N09°04', E079°41'	2	YES	
Sri Lanka	NP	Delft Island	N09°31', E079°41'	1		
Sri Lanka	NP	Giant's Tank	N08°51', E080°02'	1		
Sri Lanka	NP	Kattaiadampan	N08°47′, E080°05′	1		
Sri Lanka	NP	Kayts Island and Mandaitivu	N09°44', E079°52'	1		
Sri Lanka	NP	Kora Kulam	N09°00', E079°53'	1		
Sri Lanka	NP	Mannar Causeway	N08°57', E079°54'	2		
Sri Lanka	NP	Uppu Aru Lagoon	N09°42', E080°05'	1	YES	
Sri Lanka	NP	Vadamaradchi Lagoon	N09°47', E080°05'		YES	
Sri Lanka	NP	Vankalai Triangle	N08°55', E079°56'	3	YES	
Sri Lanka	NWP	Puttalam Salt Pans	N08°03', E079°48'	1		
Sri Lanka	SP	Bundala National Park	N06°09', E081°14'		YES	
Sri Lanka	SP	Hambantota Wetlands	N06°08', E081°07'	6	YES	
Sri Lanka	SP	Palatupana Saltern	N06°16', E081°24'	1		
Sri Lanka	SP	Ruhuna National Park: Block I	N06°18', E081°28'	1		
Sri Lanka	SP	Tangalla Mangrove	N06°04', E080°51'	1		
Sri Lanka	WP	Beira Lake	N06°55', E079°52'	1		
Thailand	Buriram	Huai Talat Non-Hunting Area	N14°53', E103°03'	1		
Thailand	Buriram	Sanambin Non-Hunting Area	N14°38′, E103°05′	2		
Thailand	Nakhon Sawan	Bung Boraphet	N15°42', E100°15'	5	YES	1
Thailand	Pattalung	Thale Noi Non-Hunting Area	N07°53′, E100°10′	3	YES	R,I
Thailand	Petchaburi	Pak Thale (Laem Phak Bia), Inner Gulf	N13°09', E100°03'	2		Í
Thailand	Petchaburi	Wat Khao Takhrao, Inner Gulf	N13°13', E099°56'	1		
Thailand	Samut Prakan	Bang Pu, Inner Gulf	N13°33', E101°00'	2		
Thailand	Samut Sakhon	Khok Kham, Inner Gulf	N13°31′, E100°19′	1		
Vietnam	Binh Dinh	Tra O Lagoon	N14°18′, E109°06′	1		
Vietnam	Nam Dinh	Xuan Thuy Ramsar Site	N20°13', E106°33'	1		R,I,pM

Note:

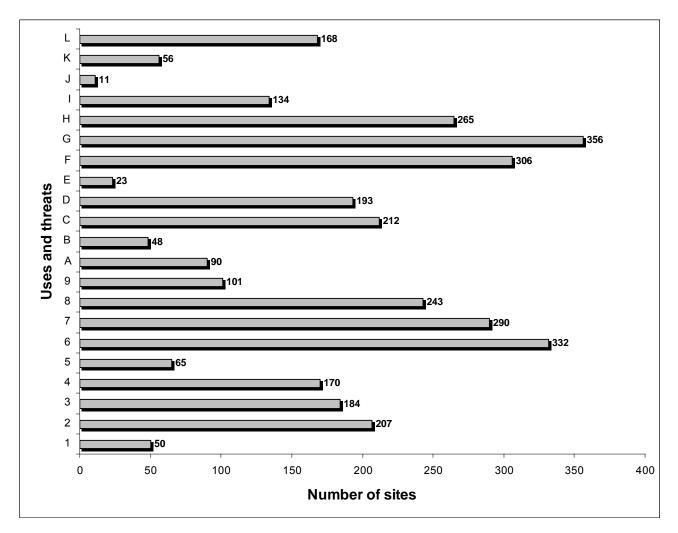
Status*: R – Ramsar site, pR – part of a Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), W – UNESCO World Heritage Site, pW – part of a UNESCO World Heritage Site, M – MAB Biosphere Reserve, pM – part of a MAB Biosphere Reserve, A – Anatidae site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, C – Crane site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, Waterbird Network in the East Asian – Australasian Flyway.

3.1.3 Uses of and threats to wetlands and threats to waterbirds in the region

A review of the data on uses of and threats to sites is provided for 1,040 of the 2,032 sites (51%) shown in Figure 6. The information reveals strong anthropogenic influences on these sites, which may have a significant role in controlling the abundance and diversity of waterbirds. Fishing, agricultural development, hunting, excessive cattle grazing, pollution of wetlands through domestic sewage, pesticides and fertilisers, and overgrowth of vegetation are reported as the main on-site uses and threats. Although partial or complete reclamation was reported at only 7% (145) of the sites, reclamation can cause a total loss of waterbird habitat, hence it is considered the most destructive cumulative threat to the wetlands and their use by waterbirds.

Figure 6: Uses of and threats to sites surveyed during the AWC, 2002-2004

Data on uses and threats summarised for 1,040 of 2,032 sites (51%) for which data were provided.



Note:

Uses and threats: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

3.1.4 Species coverage

Totals of 274 species of waterbirds and 61 species of wetland-dependent species (covering five species of sea birds, 33 birds of prey (raptors), 12 kingfishers, 11 wagtails and pipits) were recorded during the AWC from 2002 to 2004 (Tables 4 and 5). The status of the selected species and maps of the distribution of counts are presented in Section 3.6. However, the numbers for wetland-dependent birds do not represent the real number of such species at all AWC sites as these species are reported from a limited number of countries only.

The 20 most numerous species for which more than 100,000 individuals were reported were Northern Pintail (780,709 in 2003), Mallard (731,459 in 2003), Baikal Teal (VU, 458,039 in 2004), Common Pochard (369,672 in 2002), Eurasian Wigeon (361,768 in 2004), Common Coot (360,349 in 2002), Common Teal (333,498 in 2003), Spot-billed Duck (316,675 in 2004), Northern Shoveler (293,635 in 2002), Gadwall (290,781 in 2004), Greater Scaup (272,309 in 2004), Lesser Whistling Duck (201,679 in 2002), Tufted Duck (217,672 in 2002), Greater White-fronted Goose (182,918 in 2003), Black-tailed Godwit (NT, 131,430 in 2003), Bean Goose (127,245 in 2004), Garganey (111,635 in 2003), Demoiselle Crane (121,772 in 2003), Dunlin (121,175 in 2003) and Red-necked Stint (105,299 in 2003).

Family	Scientific Name	No. of Species	2002	2003	2004
Waterbirds (26 families)		274	7,964,568	7,763,834	7,934,809
Divers	Gaviidae	4	529	158	112
Grebes	Podicipedidae	5	25,919	27,321	34,806
Pelicans	Pelecanidae	4	9,077	15,123	12,999
Cormorants	Phalacrocoracidae	7	114,799	107,359	108,194
Darters	Anhingidae	1	1,107	3,326	1,998
Herons, Egrets & Bitterns	Ardeidea	27	268,902	235,134	243,104
Storks	Ciconiidae	11	73,276	36,348	84,020
Ibises & Spoonbills	Threskiornithidae	6	35,103	27,844	30,904
Flamingos	Phoenicopteridae	2	39,582	98,315	84,280
Swans, Geese & Ducks	Anatidae	55	5,528,340	5,203,875	5,629,514
Cranes	Gruidae	8	39,519	230,646	104,337
Rails, Gallinules & Coots	Rallidae	18	456,140	362,429	388,032
Finfoots	Heliornithidae	1	4	1	4
Jacanas	Jacanidae	2	59,520	12,299	9,450
Painted-Snipe	Rostratulidae	1	135	446	151
Crab Plover	Dromadidae	1	5	6,957	8
Oystercatcher	Haematopodidae	3	9,207	12,821	7,284
Ibisbill	Ibidorhynchidae	1	121		8
Stilts & Avocets	Recurvirostridae	4	60,179	101,953	69,687
Thick-knees	Burhinidae	4	578	307	307
Coursers & Pratincoles	Glareolidae	5	8,830	7,021	8,091
Plovers	Charadridae	25	153,600	169,639	178,962
Snipe, Sandpipers & Phalaropes	Scolopacidae	44	598,321	716,528	540,914
Gulls	Laridae	18	130,772	207,918	172,077
Terns	Sternidae	16	74,872	102,599	92,204
Skimmers	Rynchopidae	1	975	663	1,001
unidentified shorebirds	2 1		269,546	76,804	132,361
unidentified waterbirds			5,610		
Other Wetland-dependent Species (8 families)		61	2,979	27,190	19,198
Albatrosses	Diomedeidae	1			1
Frigatebirds	Fregatidae	2	2	2,700	60
Auks	Alcidae	2	313	36	2
Osprey, Kites, Hawks & Eagles	Accipitridae	30	1,767	3,534	2,476
Falcons	Falconidae	3	90	147	143
unidentified raptors			1	13	29
Kingfishers	Alcedinidae	12	677	5,200	2,534
Wagtails and Pipits	Motacillidae	11	129	15,560	13,953

Table 4: Summary of waterbird and wetland-dependent bird species groups reported in the AWC, 2002–2004

Of the 274 species of waterbirds and 61 species of wetland-dependent birds counted by the AWC in 2002–2004, 64 species are of conservation concern according to BirdLife International (2006): counts were made of four Critically Endangered, 13 Endangered, 26 Vulnerable and 21 Near Threatened species (Table 5).

Based on available population estimates (Wetlands International 2006), the AWC is able to cover more than 50% of the estimated populations of 22 congregatory species (e.g. Indian Cormorant, Oriental Stork, Indian Black Ibis, Black-faced Spoonbill, Fulvous Whistling Duck, Whooper Swan, Bean Goose, Lesser White-fronted Goose, Bar-headed Goose, Lesser Snow Goose, Falcated Duck, Baikal Teal, Philippine Duck, Red-crested Pochard, Ferruginous Duck, White-headed Duck, Demoiselle Crane, Siberian Crane, White-naped Crane, Common Crane, Red-Crowned Crane and Bronze-winged Jacana). Additionally, the counts of Tundra Swan, Swan Goose, Greater White-fronted Goose, Greater Scaup and Hooded Crane exceed the current population estimates, which illustrate the importance of this census for monitoring threatened species in addition to the more abundant species.

Of the waterbird and wetland-dependent species covered by the census, 159 species are listed by the CMS: 28 and 131 species in Appendices I and II respectively. Additionally, 57 species are listed by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES); 15 and 42 species are listed in Appendices I and II respectively. The AWC provides a useful mechanism for contributing to the monitoring of these species of international concern.

Table 5: Numbers of all waterbird and wetland-dependent species reported to the AWC,2002–2004

Net-Structure 18 21 100 1000000000000000000000000000000000000	English Name ¹	Scientific Name	T ²	CMS ³	CITES ⁴	2002	2003	2004	Estimated Asian Population ⁵
BitsFinicated Uwer Gave arctitize 444 97 48 27,000-100,000 White billed Their Gave addinsi 21 19 32,500-100,000 White billed Their Gave addinsi 21 12 Vagrant Ille Critice Tack back 20,502 21 7 GREBES Pedic/pedidate 21,542 24,873 200,00-2,000,000+7 Red reside Crebe Pedicoped grospan 11 00 55 52 60,000 Careal Creshell Crebe Pedicoped grospan 11 01 56 52 60,000 Ibored Grebe Pedicoped grospan 1 0,445 648 33,000-20,000 Ibored Grebe Pedicoped grospan 5 1,00 642 100,000-100,000 undwithed grebes Pedicomarks 1 4,445 644 34,71 100,000-100,000 undwithed grebes 1 2 (10,000-100,000) 100,000-20,000 100,000-20,000 100,000-20,000 100,000-20,000 100,000-100,000 100,000,000	DIVERS	Gaviidae				40	01	50	10.000 100.000
Particination Case approximation 27 19 13 25,000-100,000 Mithe-Miked Dave Case index approximation 1 Vargant Mithe-Miked Dave Case index approximation 21 Vargant CRERES Podiciped Case 21 24 20									
White bills Diver Grait a datassil 1 Vagraft understilled fuelses Grait Best Podiciped data 21 24.873 200.000-2.000,000-7 Red Beck Grobe Factoryspits and tools 20.543 21.542 24.873 200.000-2.000,000-7 Red Beck Grobe Protocyspits and tools 20.741 25.64 64.00 35.000-2.000,000-7 Red Beck Ancold Grobe Protocyspits and tools 0.1 7.7 20.000-2.000,000-7 India Carlae Protocyspits and tools 1 4.446 7.435 8.461 15.000-20.000 India Carlae Protocyspits and tools 1 4.446 7.435 8.461 15.000-20.000 Datasting Philos Protocyspits and tools 1 4.446 7.435 8.461 15.000-20.000 Landatin Philos Philoscanta and philoscanta 1 1.000-200.000 12.0000-200.000 12.0000-200.000 12.0000-200.000 12.0000-200.000 12.0000-200.000 12.000-200.000 12.0000-200.000 12.0000-200.000 12.0000-200.000 12.0000-200.000 12.000-200.000 12.									
unidentified duers Gaulidae spp. 21 CREBES Podicpedidae 21,522 24,873 200,003-200,000.7 Great Creads Grebe Pactopage prisogen u 10 56 52 00,000.7 Great Creads Grebe Pactopage prisogen u 110 56 52 00,000.7 Great Creads Grebe Pactopage prisoge prisogen u 1 71 27.8 20,000.7 200 00,000.7 000 1 27.0 20,000.7 000 00.000.1 20,000.0 56 1.0 1 2.8 10,000.0 00,000.0 50 10.000.0 20,000.0 50 10.000.0 20,000.0 1 1 0.0 10,000.0 20,000.0 50 10,000.0 10,000.0 10,000.0 20,000.0						21	17		
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						12 57/			
	STORKS	Ciconiidae				12,017	10,277	17,317	

English Name ¹	Scientific Name	T ²	CMS ³	CITES ⁴	2002	2003	2004	Estimated Asian Population ⁵
Milky Stork	Mycteria cinerea	VU			133	42	10	<5,000
Painted Stork	Mycteria leucocephala	NT			6,663	9,485	7,728	<35,000
Asian Openbill	Anastomus oscitans				63,292	23,376	72,107	300,000
Black Stork	Ciconia nigra				410	156	437	<10,500
Woolly-necked Stork Storm's Stork	Ciconia episcopus Ciconia stormi	EN			<u>415</u> 16	600	565 13	<20,000-<35,000 250-500
Eurasian White Stork	Ciconia sionia	LIN			135	69	75	(4,350)
Oriental Stork	Ciconia boyciana	EN	 	1	1,435	1,946	2,463	3,000
Black-necked Stork	Ephippiorhynchus asiaticus	NT	•	•	41	92	23	1,000
Greater Adjutant	Leptoptilos dubius	EN			21	27	93	800–1,000
Lesser Adjutant	Leptoptilos javanicus	VU			348	529	492	5,000
unidentified storks	Ciconiidae spp.				367	26	14	
IBISES & SPOONBILLS	Threskiornithidae							
Black-headed Ibis	Threskiornis melanocephalus	NT			4,858	5,951	5,705	<35,000
Indian Black Ibis*	Pseudibis papillosa				3,230	2,413	2,928	10,000
White-shouldered Ibis	Pseudibis davisoni	CR			F 500	F 000	2	<100-300
Glossy Ibis*	Plegadis falcinellus		II		5,528	5,228	7,307	10,000-25,000
unidentified ibises	Threskiornithidae spp. Platalea leucorodia				9,800 10,753	12 472	14.044	(25,000-100,000)
Eurasian Spoonbill	Platalea leucorodia		11	II	10,753	13,472	14,044	(25,000–100,000) +10,000
Black-faced Spoonbill	Platalea minor	EN	1		934	775	908	1,500
unidentified spoonbills	Platalea spp.		1		734	115	10	1,000
FLAMINGOS	Phoenicopteridae						10	
Greater Flamingo	Phoenicopterus ruber				20,339	43,439	12,590	(240,000)
Lesser Flamingo	Phoeniconaias minor	NT			13,019	54,623	71,690	390,000
unidentified Flamingos	Phoenicopteridae spp.				6,224	253		
SWANS, GEESE & DUCKS	Anatidae							
Fulvous Whistling Duck*	Dendrocygna bicolor				20,982	40,183	8,083	50,000
Wandering Whistling Duck	Dendrocygna arcuata				7,638	1,574	4,158	100,000-1,000,000
Lesser Whistling Duck*	Dendrocygna javanica				201,679	164,355	181,366	200,000-2,000,000
Mute Swan	Cygnus olor				255	160	138	
Whooper Swan	Cygnus cygnus				35,046	36,660	37,704	60,000
Tundra (Whistling) Swan*	Cygnus columbianus				36,737	63,963	95,535	92,000
unidentified swans Swan Goose*	Cygnus spp. Anser cygnoides	EN			14,023 45,572	158 55,169	27 98,116	60,000-100,000
Bean Goose	Anser fabalis	EIN	 		55,620	70,224	127,245	150,000
Greater White-fronted Goose*	Anser albifrons		 		124,753	182,918	172,968	150,000-200,000
Lesser White-fronted Goose	Anser erythropus	VU	1		5	16,555	16,956	20.000
Greylag Goose	Anser anser		 		3,238	10,708	7,550	50,000-100,000+
Bar-headed Goose	Anser indicus				17,089	28,125	28,084	(25,000) 52,000–60,000
Lesser Snow Goose	Chen (Anser) caerulescens				17,009	12	13	20-30
unidentified grey geese	Anser spp.				43,383	2,548	5,458	20 00
Canada Goose	Branta canadensis				31	28	10	Vagrant
Brent Goose	Branta bernicla				715	693	840	5,000
Red-breasted Goose	Branta ruficollis	VU	I				1	Vagrant
Ruddy Shelduck*	Tadorna ferruginea				46,128	41,895	42,499	100,000–150,000
Common Shelduck	Tadorna tadorna		II		26,963	32,034	44,488	125,000-250,000
Radjah Shelduck	Tadorna radjah				68			(10,000–100,000)
White-winged Duck	Cairina scutulata	EN			8	11	7	800
Comb Duck	Sarkidiornis melanotos		II		2,711	860	4,517	10,000-25,000
Cotton Pygmy Goose	Nettapus coromandelianus				58,640	29,961	30,833	125,000–1,100,000 65.500
Mandarin Duck	Aix galericulata		<u> </u> 		27,680	30,510	25,770	
Eurasian Wigeon* American Wigeon	Anas penelope Anas americana		! 		348,082 63	<u>309,329</u> 92	361,768 52	750,000-1,250,000 Vagrant
Falcated Duck*	Anas anencana Anas falcata	NT	<u> </u>		10,334	16,329	30,004	35,000
Gadwall*	Anas strepera	INT	 		251,300	220,375	290,781	800,000–1,300,000
Baikal Teal	Anas surepera Anas formosa	VU	1		290,482	306,137	458,039	500,000
Common Teal	Anas crecca				306,455	333,498	330,971	1,000,000–1,400,000
Sunda Teal	Anas gibberifrons				71	9		10,000–100,000
Mallard	Anas platyrhynchos				713,192	731,459	697,337	1,575,000
Spot-billed Duck*	Anas poecilorhyncha				289,372	296,477	316,675	910,000-1,800,000
Pacific Black Duck	Anas superciliosa				4	4	2	(100,000–1,000,000)
Philippine Duck	Anas luzonica	VU			3,621	2,334	4,632	5,000-10,000
Northern Pintail	Anas acuta				710,681	780,709	702,277	>1,200,000
Garganey	Anas querquedula				59,356	111,635	79,701	450,000-550,000
Northern Shoveler*	Anas clypeata		<u> </u>		293,635	211,606	180,582	1,000,000-1,500,000
Marbled Teal	Marmaronetta angustirostris	VU	<u> </u>		42	132	20 / 57	5,000
Red-crested Pochard	Netta rufina		<u> </u> 		50,018	63,504	29,657	100,000
Canvasback Common Pochard	Aythya valisineria Aythya ferina		<u> </u> 		10 369,672	16 285,530	265,508	Vagrant 500,000-800,000
Common Pocharu	Ayunya tellila		II		309,072	200,030	200,008	200,000-800,000

English Name ¹	Scientific Name	T ²	CMS ³	CITES ⁴	2002	2003	2004	Estimated Asian Population ⁵
Baer's Pochard	Aythya baeri	VU			191	201	681	10,000-20,000
Ferruginous Duck	Aythya nyroca	NT			97,201	14,263	30,570	100,000
Tufted Duck	Aythya fuligula		11		217,672	179,543	162,087	(300,000–500,000)+ 200,000–300,000
Greater Scaup*	Aythya marila				192,978	217,098	272,309	200,000-300,000
Harlequin Duck	Histrionicus histrionicus				2,425	2,340	1,698	25,000-100,000
Common Scoter	Melanitta nigra				16,058	8,902	8,828	300,000-500,000
Velvet Scoter	Melanitta fusca				1,785	444	332	600,000-1,000,000
Long-tailed Duck	Clangula hyemalis				4,602	927	406	500,000-1,000,000
Common Goldeneye	Bucephala clangula				10,429	15,443	18,591	100,000-1,000,000
Smew	Mergellus albellus		II		3,449	2,866	4,370	25,000
Red-breasted Merganser	Mergus serrator				6,115	5,219	3,669	25,000-100,000
Scaly-sided Merganser	Mergus squamatus	EN			2		34	1,000-2,500
Goosander	Mergus merganser				11,915	12,879	13,535	52,500-110,000
White-headed Duck	Oxyura leucocephala	EN			5	23	5	<50
unidentified ducks	Anatinae spp.				498,141	265,248	432,045	
CRANES	Gruidae				0.005	404 770	(4 5 0 0	170 000 000 000
Demoiselle Crane	Anthropoides virgo				9,385	121,772	61,528	170,000-200,000
Siberian Crane	Grus leucogeranus	CR			3,101	2,856	3,184	3,200
Sarus Crane	Grus antigone	VU			418	278	465	9,300-11,800
White-naped Crane*	Grus vipio	VU			4,450	3,687	6,486	6,500
Common Crane	Grus grus		II	П	6,877	55,256	16,500	(70,000)+15,000- 22,000
Hooded Crane*	Grus monacha	VU			9,302	9,892	10,592	10,160
Black-necked Crane	Grus nigricollis	VU			3,261	3,488	3,562	8,000
Red-crowned Crane	Grus japonensis	EN	1	1	1,724	1,296	2,018	2,650
Hybrid Crane	Grus grus x Grus monacha	LIN		I	1,724	1,270	2,010	2,030
unidentified cranes	Gruidae spp.				1,000	32,121	2	
RAILS, GALLINULES & COOTS	Rallidae				1,000	JZ, 1Z I	Ζ	
Swinhoe's Rail	Coturnicops exquisitus	VU					1	<10,000
Red-legged Crake	Rallina fasciata	.0			111	66	1	?
Slaty-legged Crake	Rallina eurizinoides				1,000	00		?
Barred Rail	Gallirallus torguatus				36	12	359	?
Buff-banded Rail	Gallirallus philippensis				52	12	98	?
Slaty-breasted Rail	Gallirallus striatus				1,030	38	60	?
Water Rail	Rallus aquaticus				133	544	34	?
Brown Crake	Amaurornis akool				59	22	57	?
Black-tailed (Elwes's) Crake	Amaurornis bicolor				4	2	2	?
White-breasted Waterhen	Amaurornis phoenicurus				3,078	4,202	3,194	100,000->1,000,000
Baillon's Crake	Porzana pusilla				257	41	5	?
Ruddy-breasted Crake	Porzana fusca				77	113	365	?
White-browed Crake	Porzana cinereus				136	44	49	?
Watercock	Gallicrex cinerea				714	743	193	?
Purple Swamphen	Porphyrio porphyrio				48,484	23,709	17,830	100,000– >1,000,000+?
Common Moorhen	Gallinula chloropus				40,498	12,062	7,329	?
Dusky Moorhen	Gallinula tenebrosa					12	10	?
Common Coot*	Fulica atra				360,349	320,705	358,432	1,600,000- >2,500,000+?
unidentified rails	Rallidae spp.				122	99	14	
FINFOOTS	Heliornithidae							
Masked Finfoot	Heliopais personata	VU			4	1	4	2,500-10,000
JACANAS	Jacanidae							
Pheasant-tailed Jacana	Hydrophasianus chirurgus				32,678	6,652	6,137	100,000-150,000
Bronze-winged Jacana	Metopidius indicus				26,842	5,640	3,313	50,000-100,000
unidentified jacanas	Jacanidae spp.					7		
PAINTED-SNIPE	Rostratulidae				105		454	10,000, 05,000
Greater Painted Snipe	Rostratula benghalensis				135	446	151	10,000-25,000
CRAB PLOVER	Dromadidae				-	(057	0	((0,000,00,000)
Crab Plover	Dromas ardeola				5	6,957	8	(60,000-80,000)
OYSTERCATCHER Eurasian Oystercatcher	Haematopodidae Haematopus ostralegus				4,064	6,015	2,431	(100,000-
Australian Pied Oystercatcher	Haematopus longirostris				4,419	5,046	4,068	200,000)+10,000 11,000
Sooty Oystercatcher	Haematopus fuliginosus				724	1,760	4,008	11,500
IBISBILL	Ibidorhynchidae				724	1,700	700	11,000
Ibisbill	Ibidorhyncha struthersii				121		8	?
STILTS & AVOCETS	Recurvirostridae				121		0	{
Black-winged Stilt					40,112	56,444	42,443	485,000-625,000
Banded Stilt	Himantopus himantopus Cladorhynchus leucocephalus		11			10,190	42,443	206,000
Pied Avocet	Recurvirostra avosetta				<u>12,667</u> 2,883	29,134	20,458	35,000–200,000
TIEU AVULEI	NECUIVII USII A AVUSEIIA		11		2,003	27,134	20,438	33,000-200,000

English Name ¹	Scientific Name	T ²	CMS ³	CITES ⁴	2002	2003	2004	Estimated Asian Population ⁵
Red-necked Avocet	Recurvirostra novaehollandiae				4,517	6,185	987	107,000
THICK-KNEES Stone Curlew	Burhinidae Burhinus oedicnemus				10		39	2
Bush Thick-knee	Burhinus grallarius	NT			<u>12</u> 3	2	39	?
Great Thick-knee	Burhinus grananus Burhinus (Esacus) recurvirostris				561	279	266	<10,000-25,000
Beach Thick-knee	Burhinus gigantea (E.magnirostris)	NT			2	17	2	<10,000-25,000
COURSERS & PRATINCOLES	Glareolidae							
Indian Courser	Cursorius coromandelicus					1		?
Australian Pratincole	Stiltia Isabella					12		25,000-1,000,000
Collared Pratincole	Glareola pratincola		II			354	9	Not in main distribution range
Oriental Pratincole	Glareola maldivarum				369	134	532	2,890,000-2,980,000
Small Pratincole PLOVERS	<i>Glareola lactea</i> Charadridae				8,461	6,520	7,550	50,000-100,000
Northern Lapwing	Vanellus vanellus				4,680	6,538	10,021	110,000-1,025,000
River Lapwing	Vanellus duvaucelli				1,067	734	317	<10,000-25,000
Yellow-wattled Lapwing	Vanellus malabaricus				697	1,245	876	5,000-10,000
Grey-headed Lapwing	Vanellus cinereus				1,219	729	784	25,000-100,000
Red-wattled Lapwing	Vanellus indicus				8,742	7,755	8,157	<60,000+?
Banded Lapwing	Vanellus tricolor				66	184		25,000-1,000,000
Masked Lapwing	Vanellus miles	0.5			2,425	3,274	2,436	200,000-2,000,000
Sociable Lapwing	Vanellus gregarius	CR	<u> </u>		8	757	270	200-600
White-tailed Lapwing unidentified lapwings	Vanellus leucurus Vanellus spp.				241	756 170	372 19	10,000-100,000
Red-kneed Dotterel	Erythrogonys cinctus				99	99	19	25,000-1,000,000
Pacific Golden Plover	Pluvialis fulva				22,899	13,611	19,069	185,000-250,000
Grey Plover	Pluvialis squatarola		 		12,251	14,970	11,062	155,000
Great Ringed Plover	Charadrius hiaticula				19	42	20	Not in main distribution range
Long-billed Plover	Charadrius placidus				159	119	135	<10,000-25,000
Little Ringed Plover	Charadrius dubius				4,144	8,128	6,960	50,000-125,000
Kentish Plover	Charadrius alexandrinus				23,619	26,724	67,558	158,000-210,000
Javan Plover	Charadrius javanicus	NT			5	10		?
Red-capped Plover	Charadrius ruficapillus				3,019	10,367	4,174	95,000
Malaysian Plover Double-banded Plover	Charadrius peronii Charadrius bicinctus	NT			<u> </u>	<u>30</u> 64	32 127	10,000–25,000 50.000
Lesser Sandplover	Charadrius mongolus				17,284	38,555	26,981	210,000–240,000
Greater Sandplover	Charadrius leschenaultii		 		40,698	14,182	16,830	125,000-200,000
Oriental Plover	Charadrius veredus		<u> </u>		8,447	16,752	335	70,000
Hooded Plover	Charadrius rubricollis	NT			92	71	45	10,500
Black-fronted Dotterel	Elseyornis melanops				123	292	61	17,100
unidentified <i>Charadrius</i> plovers SNIPE, SANDPIPERS &	Charadrius spp. Scolopacidae				1,509	4,238	2,581	
PHALAROPES Eurasian Woodcock	Scolopax rusticola				7	9	4	25,000-1,000,000
Jack Snipe	Lymnocryptes minimus		 		10	175	110	<20,000-<35,000
Solitary Snipe	Gallinago solitaria				10	44	21	<20,000-110,000
Latham's Snipe	Gallinago hardwickii				199	159	87	25,000-100,000
Wood Snipe	Gallinago nemoricola	VU			1	1		2,500-10,000
Pintail Snipe	Gallinago stenura		II		328	392	485	25,000–1,000,000+ (25,000–1,000,000)
Swinhoe's Snipe	Gallinago megala				3	98	13	25,000-100,000
Common Snipe	Gallinago gallinago				3,257	2,698	1,868	200,000-2,000,000
unidentified snipe	<i>Gallinago</i> spp.				108	75	50	
Long-billed Dowitcher	Limnodromus scolopaceus	NIT	<u> </u>		21	23	33	Vagrant
Asian Dowitcher Black-tailed Godwit	Limnodromus semipalmatus Limosa limosa	NT NT	 		536 112,624	24 131,430	53 47,425	23,000 310,000
	Limosa limosa Limosa lapponica	IN I	<u> </u>		49,866	46,110	47,425	310,000
					47,000		37,131	(100,000–150,000)
Bar-tailed Godwit					1 055	57		
unidentified godwits	Limosa spp.		11		1,855	57 694	1 70/	180.000
unidentified godwits Little Curlew	Limosa spp. Numenius minutus		 		469	694	1,794	180,000 80,000–155,000
unidentified godwits	Limosa spp.						1,794 3,325 7,948	80,000–155,000 (10,000–
unidentified godwits Little Curlew Whimbrel Eurasian Curlew Far Eastern Curlew	Limosa spp. Numenius minutus Numenius phaeopus Numenius arquata Numenius madagascariensis				469 3,676 18,249 6,056	694 6,290 11,273 6,563	3,325 7,948 4,301	80,000-155,000
unidentified godwits Little Curlew Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews	Limosa spp. Numenius minutus Numenius phaeopus Numenius arquata Numenius madagascariensis Numenius spp.				469 3,676 18,249 6,056 481	694 6,290 11,273 6,563 503	3,325 7,948 4,301 412	80,000-155,000 (10,000- 100,000)+35,000 38,000
unidentified godwits Little Curlew Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews Spotted Redshank	Limosa spp. Numenius minutus Numenius phaeopus Numenius arquata Numenius madagascariensis Numenius spp. Tringa erythropus				469 3,676 18,249 6,056 481 3,498	694 6,290 11,273 6,563 503 13,040	3,325 7,948 4,301 412 16,651	80,000-155,000 (10,000- 100,000)+35,000 38,000 35,000-125,000
unidentified godwits Little Curlew Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews	Limosa spp. Numenius minutus Numenius phaeopus Numenius arquata Numenius madagascariensis Numenius spp.				469 3,676 18,249 6,056 481	694 6,290 11,273 6,563 503	3,325 7,948 4,301 412	80,000-155,000 (10,000- 100,000)+35,000 38,000

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Nordmann's Greenshank	Tringa guttifer	EN			7	14	74	500-1000
Green Sandpiper	Tringa ochropus				2,408	1,099	983	50,000-200,000
Wood Sandpiper	Tringa glareola				4,481	7,960	6,767	200,000-300,000
Terek Sandpiper	Xenus cinereus				12,759	2,350	3,644	60,000-150,000
Common Sandpiper	Actitis hypoleucos				8,383	6,712	6,208	100,000-150,000
Grey-tailed Tattler	Heteroscelus brevipes				7,612	8,495	7,143	40,000
Wandering Tattler	Heteroscelus incanus				16,335	5,327	8,621	Vagrant
unidentified Tringa sandpipers	<i>Tringa</i> spp.				2			
Ruddy Turnstone	Arenaria interpres		II		4,495	5,585	2,971	10,000–100,000+ (25,000–100,000)
Great Knot	Calidris tenuirostris		II		11,459	5,305	4,716	(2000– 5000)+380,000
Red Knot	Calidris canutus				69,314	66,498	40,340	220,000
Sanderling	Calidris alba				3,104	3,682	3,919	47,000-122,000
Red-necked Stint	Calidris ruficollis				83,695	105,299	93,437	315,000
Little Stint	Calidris minuta				18,587	48,052	21,704	200,000-300,000
Temminck's Stint	Calidris temminckii				3,453	5,494	2,103	35,000-200,000
Long-toed Stint	Calidris subminuta				597	368	1,286	25,000
Pectoral Sandpiper	Calidris melanotos						2	Vgrant
Sharp-tailed Sandpiper	Calidris acuminata				8,131	16,225	6,553	160,000
Curlew Sandpiper	Calidris ferruginea				21,789	20,915	40,395	380,000-480,000
Dunlin	Calidris alpine				72,468	121,175	91,625	850,900+(200,000-
Spoon-billed Sandpiper	Eurynorhynchus pygmaeus	EN			3	9	4	2,000,000)
Broad-billed Sandpiper	Limicola falcinellus	LIN			92	120	386	(61,000–64,000)+ 10,000–100,000
Ruff	Philomachus pugnax				13,425	31,533	14,514	25,000-100,000
unidentified <i>calidris</i> sandpipers	<i>Calidris</i> spp.				983	930	100	23,000-100,000
Red-necked Phalarope	Phalaropus lobatus				8	4	100	100,000-1,000,000
Grey Phalarope	Phalaropus fulicarius				0	3		Vagrant
unidentified shorebirds			11		240 544	-	122 241	vayran
GULLS	Charadrii spp. Laridae				269,546	76,804	132,361	
					21 210	20 720	1/ 051	1 050 000
Black-tailed Gull	Larus crassirostris				21,319	30,728	16,251	1,050,000
Sooty Gull	Larus hemprichii		II		94	E 507	0.001	Vagrant
Common (Mew) Gull	Larus canus				4,078	5,597	8,281	25,000-100,000
Glaucous-winged Gull	Larus glaucescens				16	35	24	(570,000)
Glaucous Gull	Larus hyperboreus				58	410	71	?
Iceland Gull	Larus glaucoides				20.027	10.042	2	Vagrant
Herring Gull	Larus argentatus				30,037	40,043	27,987	57,000-66,000+?
Heuglin's Gull	Larus heuglini				4,111	2,444	9,781	(25,000-1,000,000)
Slaty-backed Gull	Larus schistisagus				4,536	2,026	3,345	25,000-1,000,000
Yellow-legged Gull/Caspian Gull	Larus cachinnans				165	20	347	(100,000– >1,000,000)
Great Black-headed (Pallas's) Gull	Larus ichthyaetus				2,314	4,023	2,196	25,000-100,000
Brown-headed Gull	Larus brunnicephalus				10,736	30,059	10,058	(100,000-200,000)
Common Black-headed Gull	Larus ridibundus				48,169	82,212	81,007	125,000->2,000,000
Slender-billed Gull	Larus genei				744	1,052	1,032	(150,000)
Saunders's Gull	Larus saundersi	VU			1,317	1,568	2,511	7,100-9,600
Relict Gull	Larus relictus	VU	I			2	3,367	12,000
Little Gull	Larus minutus					1		Vagrant
Black-legged Kittiwake	Larus tridactyla				71	105	45	Vagrant
unidentified gulls	Laridae spp.				3,007	7,592	5,772	
TERNS	Sternidae							
Gull-billed Tern	Gelochelidon nilotica				3,435	2,602	1,574	70,000-200,000
Caspian Tern	Sterna caspia				897	1,820	2,428	60,000–125,000
Lesser Crested Tern	Sterna bengalensis				3,958	27,368	295	(150,000-180,000)
Sandwich Tern	Sterna sandvicensis				83	90		(110,000)
(Greater) Crested Tern	Sterna bergii				1,611	14,258	280	(100,000– 1,000,000)+?
River Tern	Sterna aurantia				6,142	7,660	6,663	50,000-100,000
Black-naped Tern	Sterna sumatrana				12	65	4,381	?
Common Tern	Sterna hirundo				12,563	6,929	10,644	35,000–1,100,000+?
Little Tern	Sterna albifrons				5,223	6,852	4,685	60,000-200,000
Black-bellied Tern	Sterna melanogaster	NT			376	641	75	10,000-25,000
Bridled Tern	Sterna anaethetus	IN I			570	011	20	?
Whiskered Tern	Chlidonias hybridus				30,595	19,230	42,463	<u>?</u> 50,000–200,000+?
White-winged Black Tern	Chlidonias leucopterus				1,740	722	1,303	25,000-1,000,000
		_				122	1,303	23,000-1,000,000
unidentified Sterna Terns	Sterna spp.				1,700	14.050	17 201	
unidentified terns	Sterninae spp.				6,537	14,352	17,381	
Drown Moddy	A pouro otoliduro						1	
Brown Noddy Lesser Noddy	Anous stolidus Anous tenuirostris						1	(75,000) (>1,000,000)

Indemlified variability 5.610 Total Waterbrids 7,964,568 ALBATROSSES Diomededate Layara Albatross Phoebastia immulabilis VU FRICATEBIROS Fregatia andrewsi CR 1 Lasser Fragatabild Fregata andrewsi CR 1 Lasser Fragatabild Fregata andrewsi CR 1 Lasser Fragatabild Fregata andrewsi CR 1 AUKS Acticate 2 1 Ancient Murrell Synthitica annoceata 26 Annoent Murrell Synthitica annoceata 1 26 OSPREY, KITES, HAWKS & Accipitidae 1 1 22 EAGLES Unite set and the s	2003 20	Population ⁵
Indian Skimmer Rynchogs allicallis VU 975 Total Waterbirds 7,964,568 <	10	(100,000–1,000,000)
underthids 7,643 Total Waterbirds 7,964,568 7,763, AI BATROSSES Diamedichie 7,964,568 7,763, AI BATROSSES Diamedichie VU FRGATEBRISS Frequidae Christmas Island Frigeliel Frequida andreesi CR 1 Lesser Frigulacie 2, undentlied frigelebird Frequida appl. 2, Alkiks Alcidae 2 Rhinocorso Auklet Cerorthica anoncerata 26 Acceptridae 26 Accient Murrelet Synthilozomprovans antiguus 287 OSPREY, KITES, HAWKS & Acceptridae EAGLES 1 1 22 Black-winge (flouddered) Kite Ellurus carequisus 1 1 22 1 26 1 26 1 26 1 26 1 22 1	663 1,0	01 6,000–10,000
Total Waterbirds 7,964,568 7,763, 7,763, All BAIROSSES Diomethylde	005 1,0	51 0,000-10,000
Laysan Abatross Phoebastia immutabilis VU FRGATEBIROS Fregata antifexis CR I Cristinans Siland Frigatebird Fregata antifexis CR I Losser frigatebird Fregata antifexis CR I Losser frigatebird Fregata antifexis CR I Losser frigatebird Fregata antifexis CR I AUKS Acidae Rinoceros Aukel Corothinca monocerata 26 Ancient Murrelet Synthitoramphus antiquus 281 05 Coprey Pandion haliaetus II II 122 Black Kite Minus migrans II II 681 1, Black Kite Minus migrans II II 60 1 Black Kite Minus migrans II II 11 1 1 Black Kite Minus migrans NT II 60 1 1 1 1 1 1 1 1 1 1 1 1	3,834 7,934,8	09
FRIGATEBINDS Fregala andrewsi CR I Christmas Island Frigatebird Fregala andrewsi CR I Lesser Frigatebird Fregala andrewsi CR I Lesser Frigatebird Fregala andrewsi CR I AUKS Alcidae 2 Alcidae 2 Rhinocaros Auklet Caronhinca monocerata 26 Accient Murrel 5 Acclent Murrel Synthiboanghue antiquues 287 OSPREY, KITES, HAWKS & Copiliridae EAGLES 1 26 Black Kite Milous migrans II II 26 Black Kite Milous migrans II 1 25 Ville-belled Fish-eagle Hallaeetus blacitas II 1 21 Statis 1		
Christmas Island Frigelate ind Frigela andrewsi CR I Lesser FrigateAledid Fregata andrewsi CR 1 Lesser FrigateAledid Fregata andrewsi 2 AUKS Acidate 7 AUKS Acidate 26 ANCEN Synthilboranghus aniquus 267 OSPREY, KTES, HAWKS & Accipitridae 267 OSPREY, KTES, HAWKS & Accipitridae 27 Black Kile Anican Maus anigrans II 11 22 Black Kile Advinged (shoulderol) Kile Education 11 25 1 While belled Fish-eagle Halaeetus leucongater II 142 2 Pallass Fish-eagle Halaeetus leucongater II 160 1 1 21 While belled Fish-eagle Halaeetus leucongater II 11 21 21 Pallas Fish-eagle Halaeetus leucongater II 11 21 21 Crease acalge Halaeetus leucongater II 11 11		1 (874,000)
Lesser Fish-aelpid <i>Progla ariel</i> 2. undernilfed frigatebrids <i>Frequia spp.</i> 2 AUKS Akidae 26 Rhinoccros Auklet <i>Ceronhica monocerala</i> 26 Ancient Murrelet Synthibizamaphus aniquus 287 OSPREY, KITES, HAWKS & Accipitridae 26 Back-winged (shouldered) Kite <i>Enurs caeruluus</i> 11 122 Black Kite <i>Enurs caeruluus</i> 11 26 Black Kite <i>Hallestur indus</i> 11 25 Winte-balled Fish-eagle <i>Hallesetus blucongaster</i> 11 42 Pallass Fish-eagle <i>Hallesetus plagicus</i> VU 1 11 11 Stelers Sea-eagle <i>Hallesetus plagicus</i> VU 1 11 21 Careerus VUItre <i>Accipitre challes</i> NT 11 28 28 Careerus VUItre <i>Accipitre anicuus</i> NT 11 14 14 Pallad Harrier <i>Circus macrouus</i> NT 11 14 28 Ca	700	0.400.4.000
unidentified fingate/inds Freque spp. 2 AUKS Acidate	700 2,000	2,400-4,800 (200.000)
AUKS Acidae Printocros Auklei Corrolina monocerata 26 Ancient Murrelet Synthilboramphus antiquus 287 Cosprey 287 OSPREY, KITES, HAWKS & Accipitridae EAGLES 11 122 Black Wingel (shoulderent) Nile Elanus caenuluus 11 125 Black Kile Milus migrans 11 11 65 Black Kile Milus migrans 11 125 11 Black Kile Milus migrans 11 121 11 11 Black Mile Haliaeeuts indus 11		(200,000)
Ancient Murrelet Synthibor amphus aniquus 287 OSPREY, KITES, HAWKS & EAGLES Accipitridae III 122 Black Winged (shouldered) Kite Elarus carrelus II 122 Black Kite Milus migrans II II 63 Black Kite Milus migrans II II 63 1, Brahminy Kite Halaseur Indus II 25 5 5 5 5 6 1		50
OSPERP, KITES, HAWKS & Accipitridae EAGLES Osprey Pandion halaetus II 122 Black Ninged (shouldered) Kite Eanus caeruleus II 163 122 Black Kite Milus migrans II 1633 1 125 White belled Fish-eagle Halaeetus leucogaster II 42 Palass Fish-eagle Halaeetus leucogaster II 42 Palass Fish-eagle Halaeetus leucogaster VU II 11 11 White belled Fish-eagle Halaeetus abicilla NT I 21 55 Steller's Sea-eagle Halaeetus abicilla NT I 21 55 Cifereous Vulture Aegypus monachus NT II 28 6 Cifereous Vulture Aegypus monachus NT II 149 14 Cresta Sepent-eagle Splotnis cheela II 11 128 Montagu's Harrie Circus aeruginosus II II 10 EasterM Marsh Harier Circus sppionis Cheela <td></td> <td>(800,000)</td>		(800,000)
EAGLES II II 122 Black-winged (shouldered) Kite <i>Elanus caetuleus</i> II 26 Black Kite <i>Milus migrans</i> II 16 38 1, Brahminy Kite <i>Halasetus leucogaster</i> II 42 P Palass Fish-eagle <i>Halaeetus albicita</i> NT 1 21 Stelers Sea-eagle <i>Halaeetus albicita</i> NT 1 21 Stelers Sea-eagle <i>Halaeetus albicita</i> NT 1 60 Lesser Fish-eagle <i>Ichthyophaga humilis</i> NT 11 66 Cirerous Vulure <i>Aegyasus machus</i> NT 11 149 Crested Serpent-eagle <i>Ichthyophaga humilis</i> NT 11 11 Hen Harrier <i>Circus machanoleucos</i> 11 11 11 Hen Harrier <i>Circus analinoleucos</i> 11 11 12 Western Marsh Harrier <i>Circus analinoleucos</i> 11 1108 12 Lesstern Marsh Harrier <i>Circus analinoleucos</i> 11 <	36	2 (1,000,000)
Osprey Pardon halaetus II II 122 Black Ninged (shouldered) Kile Elanus caeruleus II 26 Black Kile Milrus migrans II II 633 1, Brahminy Kite Halaetus leucogaster II 42 Pallass Fish-eagle Halaeetus leucogaster II 42 Pallass Fish-eagle Halaeetus leucogaster II 60 Lesser Fish-eagle Halaeetus pelagicus VU II 60 Lesser Fish-eagle Ichthyophaga humilis NT II 28 Cinereous Vulture Aegypus monachus NT II 141 Peld Harrier Circus gradeus II II 41 Peld Harrier Circus pagargus II II 41 Peld Harrier Circus splitnotus II II 108 Western Marsh Harrier Circus splitnotus II II 108 Undentlifed Harriers Circus splitnotus II II 10 Uni		
Black-winged (shouldered) Kite Elanus caeruleus II 26 Black Kite Milus migrans II II 638 1, Brahminy Kite Halass Linus II 255 Milte-bellied Fish-eagle Halaestus Isucropaster II 42 Pallass Fish-eagle Halaeetus abicilla NT I 21 Stellers Sea-eagle Halaeetus abicilla NT I 21 Stellers Sea-eagle Ichthyophaga humilis NT II 60 Cesser Fish-eagle Ichthyophaga humilis NT II 60 Cinerous Vulure Aegyptis monchus NT II 61 Cinerous Vulure Aegyptis monchus NT II 141 Pallid Harrier Circus granoruus NT II 10 Western Marsh Harrier Circus splinotus II II 2 Montagu's Harrier Circus splinotus II 11 2 Eurasian Sparrowhawk Accipiter patilis II 11 2	150 1	14 (4(0,000)
Black Kline Milus inigrans II II 638 1, Brahminy Klite Hallaedus kuzogaster II 42 Pallas Fish-eagle Hallaedus kuzogaster II 42 Pallas Fish-eagle Hallaedus kuzogaster II 42 Pallas Fish-eagle Hallaedus kuzogaster II 42 Steller's Sea-eagle Hallaedus abidilla NT I 21 Steller's Sea-eagle Hallaeetus pelagicus VU I 60 Creveheaded Fish-eagle Ichthyophaga ichtyaetus NT II 28 Cinercous Vulture Acyptus monachus NT II 28 Cinercous Vulture Acyptus monachus NT II 14 Crested Serpent-eagle Spilonis cheela II 11 41 Pald Harrier Crcus macrourus NT II 12 2 Montagu's Harrier Crcus applousus II II 2 2 Montagu's Harrier Crcus spilonous II II		14 (460,000) 25 (100,000–1,000,000)
Brahminy Kite Hillestur Indus II 255 White-bellied Fish-eagle Hallaserius leucogaster II 42 Patlas S Fish-eagle Hallaeetus abtocilla NT I 11 White-bellied Fish-eagle Hallaeetus abtocilla NT I 21 Steller's See-agle Hallaeetus pelagicus VU I II 60 Lesser Fish-eagle Ichthyophaga humilis NT II 6 6 Creyneaded Fish-eagle Ichthyophaga humilis NT II 14 149 Crested Serpent-eagle Splithris cheela II 11 41 149 Crested Serpent-eagle Circus chancourus NT II 11 2 Hen Harrier Circus chancourus NT II 12 2 Western Marsh Harrier Circus splithots II II 2 Larasian Sparrowhawk Accipiter gutaris II II 3 Common Buzzard Buteo hemilasius II II 2 <		34 ?
While-bellied Fish-eagle Hallaeetus leucogaster II 42 Palass Fish-eagle Hallaeetus abicilla NT I 11 While-tailed Eagle Hallaeetus abicilla NT I 21 Stefers Sea-eagle Hallaeetus pelagicus VU I II 60 Lesser Fish-eagle Ichthyophaga Ichthyaetus NT II 60 Cinercous Vulture Aegyptus monachus NT II 149 Cinercous Vulture Aegyptus monachus NT II 149 Crested Seprent-eagle Spilorins cheela II II 141 Palld Harrier Circus macrourus NT II 19 Pied Harrier Circus progargus II II 22 Western Marsh Harrier Circus spilnotus II II 28 Indiatrier Circus spilnotus II II 2 Lestern Marsh Harrier Circus spilnotus II II 2 Leatarain Sparrowhawk Accipiter gentilis		03 100,000–1,000,000
Pallas F Ish-eagle Halaeetus labicilla NT I II White-tailed Eagle Halaeetus abicilla NT I 21 Steller's Se-eagle Halaeetus pelagicus VU I 60 Cerse-headed Fish-eagle Ichthyophaga humilis NT II 60 Cinercous Vulture Aegypius monachus NT II 128 Cinercous Vulture Aegypius monachus NT II 149 Cinercous Vulture Circus cyanus II II 41 Palid Harrier Circus cyanus II II 2 Western Marsh Harrier Circus spignotus II II 2 Western Marsh Harrier Circus spignotus II II 108 Eastern Marsh Harrier Circus spignotus II II 11 Japanese Spartowhawk Accipiter guilaris II II 12 Cornton Buzzard Buteo huteo II II 2 Northern Goshawk Accipiter genilits II	60	76 ?
Steller's Sea-eagle Haliaeetus pelagicus VU I II 60 Lesser Fish-eagle Ichthryophaga inthyaetus NT II 28 Cinereous Vulture Aegyptus monachus NT II 11 Crested Serpent-eagle Spilornis cheela II 11 149 Crested Serpent-eagle Spilornis cheela II 11 12 Peid Harrier Circus macrourus NT II 12 Western Marsh Harrier Circus aeruginosus II 11 2 Western Marsh Harrier Circus spilontus II 11 58 unidentified Harriers Circus spilontus II 11 2 Vestern Marsh Harrier Circus spilontus II 11 2 unidentified Harriers Circus spilontus II 11 2 common Buzard Buteo hemilasius II II 2 Northern Goshawk Accipiter guntilis II 11 2 Lesser Spotted Eagle Aquila pom		15 (2,500–9,999)
Lesser Fish-eagle Ichthyophaga humilis NT II 6 Grey-headed Fish-eagle Ichthyophaga ichtyaetus NT II 28 Cinercous Vulture Aegyptis monachus NT II 14 Crested Serpent-eagle Spitornis cheela II II 41 Hen Harrier Circus cyaneus II II 41 Peld Harrier Circus metanoleucos II II 9 Peld Harrier Circus sareuginosus II II 2 Westem Marsh Harrier Circus sareuginosus II II 2 Undentified Harriers Circus spitinotus II II 2 Lapanese Sparrowhawk Accipiter gutaris II II 2 Northern Goshawk Accipiter gutaris II II 2 Northern Goshawk Accipiter gutaris II II 2 Rough-legged Hawk Buteo benilasius II II 2 Rough-legged Hawk Buteo benilasius II	-	50 ?
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Cinerous Vulture Aegypius monachus NT II II 149 Crested Serpent-eagle Spilornis cheela II III IIII IIII III III III IIII IIII IIII IIII IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		<u>22 </u>
$\begin{array}{c} \mbox{Crested Serpent-eagle} & Spilomis cheela & II & II & 41 \\ \mbox{HentArrier} & Circus cyaneus & II & II & 41 \\ \mbox{Herrier} & Circus macrourus & NT & II & II & 9 \\ \mbox{Pidel Harrier} & Circus macrourus & NT & II & II & 32 \\ \mbox{Montagu's Harrier} & Circus pygargus & II & II & 32 \\ \mbox{Mostem Marsh Harrier} & Circus spilonous & II & II & 08 \\ \mbox{Eastem Marsh Harrier} & Circus spilonous & II & II & 58 \\ \mbox{undentified Harriers} & Circus spilonous & II & II & 58 \\ \mbox{undentified Harriers} & Circus spilonous & II & II & 2 \\ \mbox{Eastem Marsh Harrier} & Circus spilonous & II & II & 2 \\ \mbox{Eastem Marsh Harrier} & Circus spilonous & II & II & 2 \\ \mbox{Eastem Marsh Harrier} & Circus spilonous & II & II & 2 \\ \mbox{Eastem Marsh Harrier} & Circus spilonous & II & II & 2 \\ \mbox{Eastem Marsh Harrier} & Circus spilonous & II & II & 2 \\ \mbox{Eurasian Sparrowhawk} & Accipiter gutaris & II & II & 2 \\ \mbox{Eurasian Sparrowhawk} & Accipiter gentilis & II & II & 3 \\ \mbox{Common Buzzard} & Buteo hemilasius & II & II & 2 \\ \mbox{Rough-legged Hawk} & Buteo lagopus & II & II & 2 \\ \mbox{Rough-legged Hawk} & Buteo lagopus & II & II & 2 \\ \mbox{Eesser Spotted Eagle} & Aquila chapa & VU & I & II & 40 \\ \mbox{Steppe Eagle} & Aquila chapa & VU & I & II & 10 \\ \mbox{Golden Eagle} & Aquila heliaca & VU & I & I & 10 \\ \mbox{Golden Eagle} & Aquila chapsatos & II & II & 4 \\ \mbox{Chanceable Hawk-eagle} & Spizetus cirnhaus & II & II & 4 \\ \mbox{Chanceable Hawk-eagle} & Spizetus cirnhaus & II & II & 2 \\ \mbox{Peregrine Falcon} & Falco innunculus & II & II & 82 \\ \mbox{Mortin Fishers} & Alcedinidae & \\ \mbox{Rudfy Kingfisher} & Halcyon comanda \\ \mbox{Stork-billed Kingfisher} & Halcyon amorphica \\ \mbox{Mindfisher} & Halcyon amorphica \\ \mbox{Mudfy Kingfisher} & Halcyon amorphica \\ \mbox{Mindfisher} & Alcedo athinis \\ \mbox{Budo Kingfisher} & Alcedo atherules \\ \mbox{Finde Kingfisher} $		46 ? 56 11,000–16,000
Hen Harrier Circus cyaneus II III IIII IIII III IIII III IIII IIII IIII IIII IIII IIII IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	470 4	2 ?
Palid Harrier Circus macrourus NT II II 9 Pied Harrier Circus melanoleucos II II 32 Western Marsh Harrier Circus spignous II II 2 Western Marsh Harrier Circus spilinolus II II 108 unidentified Harriers Circus spilinolus II II 2 unidentified Harriers Circus spilinolus II II 2 Lapanese Sparrowhawk Accipiter gentilis II II 2 Northern Goshawk Accipiter gentilis II II 2 Northern Goshawk Accipiter gentilis II II 2 Rough-legged Hawk Buteo buteo II II 2 Lesser Spotted Eagle Aquila nipalensis II II 40 Steppe Eagle Aquila nipalensis II II 40 Common Kestrel Falco cinnunculus II II 40 Changeable Hawk-eagle Spizaetus cirnhatus <t< td=""><td>42</td><td>33 (1,300,000)</td></t<>	42	33 (1,300,000)
Montagu's Harrier Circus pygargus II II 2 Western Marsh Harrier Circus sequipnosus II II 108 Eastern Marsh Harrier Circus spillnotus II II 58 unidentified Harriers Circus spill II 17 Japanese Sparrowhawk Accipiter glaris II II 2 Eurasian Sparrowhawk Accipiter nisus II II 2 2 Northern Goshawk Accipiter nisus II II 3 2 Common Buzzard Buteo hemilasius II II 2 2 Rough-legged Hawk Buteo hagopus II II 2 2 Rough-legged Hawk Buteo hagopus II II 2 2 Rough-legged Hawk Buteo hagopus II II 40 2 Rough-legged Hawk Buteo hagopus II II 40 3 Cereater Spotted Eagle Aquila chaga VU I 10 4 4 </td <td>4</td> <td>(18,000–30,000)</td>	4	(18,000–30,000)
Western Marsh Harrier Clicus aeuglosus II II 108 Eastern Marsh Harrier Clicus spp. II 17 58 unidentified Harriers Clicus spp. II 17 58 unidentified Harriers Clicus spp. II 17 58 Japanese Sparrowhawk Accipiter gularis II II 2 Eurasian Sparrowhawk Accipiter gularis II II 2 Northern Goshawk Accipiter gularis II II 2 Northern Goshawk Accipiter gularis II II 2 Rough-legged Hawk Buteo beuteo II II 2 Rough-legged Hawk Buteo hanitasius II II 2 Lesser Spotted Eagle Aguila pomarina II 7 6 Greater Spotted Eagle Aguila nelaca VU I 10 0 Golden Eagle Aguila chrysaetos II II 4 2 Changeable Hawk-eagle Spizaetus cirrhatus	19 :	21 10,000–100,000
Eastern Marsh Harrier Circus splinotus II II 58 unidentified Harriers Circus spp. II 17 Japanese Sparrowhawk Accipiter gularis II 11 2 Eurasian Sparrowhawk Accipiter gularis II II 2 Northern Goshawk Accipiter gentilis II II 2 Northern Goshawk Accipiter gentilis II II 2 Common Buzzard Buteo hemilasius II II 2 Rough-legged Hawk Buteo lagopus II II 2 Lesser Spotted Eagle Aquila clanga VU II 40 Steppe Eagle Aquila nipalensis II II 40 Steppe Eagle Aquila nipalensis II II 40 Colden Eagle Aquila nipalensis II II 40 Colden Eagle Aquila nipalensis II II 40 Common Kestrel Falco nunuculus II II 40		1 (100,000–1,000,000)
unidentified Harriers Circus spp. II 17 Japanese Sparrowhawk Accipiter gularis II II 2 Eurasian Sparrowhawk Accipiter nisus II II 2 Northern Goshawk Accipiter gentilis II II 2 Northern Goshawk Accipiter gentilis II II 3 Common Buzzard Buteo benilasius II II 2 Rough-legged Hawk Buteo hemilasius II II 2 Rough-legged Hawk Buteo lagopus II II 2 Eesser Spotted Eagle Aquila clanga VU II 40 Steppe Eagle Aquila heliaca VU I 10 Greater Spotted Eagle Aquila heliaca VU I 10 Golden Eagle Aquila heliaca VU I 10 Golden Eagle Aquila chrysaetos II II 1 FALCONS Falco tinnuculus II II 2 Peregrine Falcon Falco columbarius II II 2 M		61 (100,000–1,000,000)
Japanese Sparrowhawk Accipiter gularis II II 2 Eurasian Sparrowhawk Accipiter gularis II II 2 Northern Goshawk Accipiter gentilis II II 3 Common Buzzard Buteo buteo II II 70 Upland Buzzard Buteo hemilasius II II 2 Rough-legged Hawk Buteo lagopus II II 2 Lesser Spotted Eagle Aquila pomarina II 7 Greater Spotted Eagle Aquila plaensis II II Imperial Eagle Aquila plaensis II II 40 Steppe Eagle Aquila heliaca VU I 10 Golden Eagle Colden Eagle Aquila heliaca VU I 10 Golden Eagle 1 Changeable Hawk-eagle Spizaetus cirrhatus II II 4 2 Changeable Hawk-eagle Spizaetus cirrhatus II II 2 Peregrine Falcon Falco tinnunculus II II 2 Merlin Falco columbarius	57	45 ?
Eurasian Sparrowhawk Accipiter nisus II II 2 Northern Goshawk Accipiter gentilis II II 3 Common Buzzard Buteo buteo II II 70 Upland Buzzard Buteo hemilasius II II 2 Rough-legged Hawk Buteo hemilasius II II 2 Lesser Spotted Eagle Aquila pomarina II II 2 Greater Spotted Eagle Aquila nipalensis II II 40 Steppe Eagle Aquila clanga VU I 10 Gorden Eagle Aquila clanysaetos II II 11 Imperial Eagle Aquila clanysaetos II II 4 Changeable Hawk-eagle Spizaetus cirrhatus II II 4 Changeable Hawk-eagle Spizaetus cirrhatus II II 4 Common Kestrel Falco cinnunculus II II 8 Common Kestrel Falco peregrinus II II 6 KINGFISHERS Alcedo nergrinus II II 2 </td <td>1</td> <td>1 10,000–100,000</td>	1	1 10,000–100,000
Northern Goshawk Accipiter gentilis II II II II II TO Common Buzzard Buteo buteo II II 70 Upland Buzzard Buteo hemilasius II II 2 Rough-legged Hawk Buteo lagopus II II 2 2 Rough-legged Hawk Buteo lagopus II II 2 2 Cerater Spotted Eagle Aquila clanga VU I II 40 Steppe Eagle Aquila nipalensis II II 10 10 Golden Eagle Aquila nipalensis II II 4 10 10 Golden Eagle Aquila chrysaetos II II 4 10 10 Golden Eagle Aquila chrysaetos II II 4 10 10 Golden Eagle Aquila chrysaetos II II 8 10 10 10 Golden Eagle Aquila chrysaetos II II 8 10 10 10 10 10 10 10 10 10 <	9	8 (1,000,000-
Common Buzzard Buteo buteo II II 70 Upland Buzzard Buteo hemilasius II II 2 Rough-legged Hawk Buteo lagopus II II 2 Rough-legged Hawk Buteo lagopus II II 2 Lesser Spotted Eagle Aquila pomarina II II 7 Greater Spotted Eagle Aquila clanga VU I II 40 Steppe Eagle Aquila nipalensis II II 10 Golden Eagle Aquila chrysaetos II II 4 Changeable Hawk-eagle Spizaetus cirrhatus II II 4 Changeable Hawk-eagle Spizaetus cirrhatus II II 4 Changeable Hawk-eagle Spizaetus cirrhatus II II 82 Common Kestrel Falconidae II II 82 Merlin Falco peregrinus II II 82 Muddy Kingfisher Halcyon coromanda 11 11 Brown-winged Kingfisher Halcyon amuroptera V V <		10,000,000)
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	1,046 6	30 ?
	23	3
	2,921 2,3	51 ?
		73 ?

English Name ¹	Scientific Name	T ²	CMS ³	CITES ⁴	2002	2003	2004	Estimated Asian Population ⁵
Grey Wagtail	Motacilla cinerea				1	3,883	2,658	(1,500,000-
								3,200,000)
Citrine Wagtail	Motacilla citreola				22	307	210	?
Yellow Wagtail	Motacilla flava				5	2,749	3,843	(5,000,000-
-								50,000,000)
Japanese Wagtail	Motacilla grandis					47	43	?
unidentified wagtails	<i>Motacilla</i> spp.					3,500	3,115	
Water Pipit	Anthus spinoletta					212	375	?
Red-throated Pipit	Anthus cervinus					1	1	(500,000-5,000,000)
Oliver-backed Pipit	Anthus hodgsoni					30	23	?
Paddyfield Pipit	Anthus rufulus						14	?
Buff-bellied (American) Pipit	Anthus rubescens					815	647	(22,000,000)
unidentified pipits	Anthus spp.				20			

Notes:

English Name¹: English and scientific names of waterbirds used throughout the report follow *Waterbird Population Estimates* (Wetlands International 2006); other wetland-dependent species follow BirdLife International (www.birdlife.org/datazone/species/index.html). The Western Reef Egret is listed a subspecies of Little Egret in *Waterbird Population Estimates*, but has been considered as a separate species, *Egretta gularis*, in view of its distinct plumage differences (see e.g. Grimmett *et al.* 1998) and is listed separately in the report. T²– Globally threatened and near-threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN –

 T^2 – Globally threatened and near-threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

CMS³ – Appendix I and II species of the Convention on Migratory Species (list downloaded from CMS website as at 31 August 2006, effective from 23 February 2006; see Section 1.4.3 for more information).

CITES⁴ – Appendix I and II species of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (list downloaded from CITES website as at 31 August 2006, valid from 14 June 2006).

Asian Population⁵:

a. Waterbird species – It is important to note that these estimates are provided only as an indicative guide for the population estimate of the species for the AWC region in Asia (and migratory shorebirds in Australasia). The estimate is generated by combining estimates of all biogeographic populations of the species occurring in the region during the non-breeding period (northern winter) as extracted from *Waterbird Population Estimates – Fourth Edition* (Wetlands International 2006). *Waterbird Population Estimates* remains the definitive guide to population estimates for all waterbird species worldwide.

 b. Wetland-dependent species – populations are extracted from BirdLife International (www.birdlife.org/datazone/species/index.html; downloaded on 1 January 2007) and Ferguson-Lees et al. (2001).

c. * indicates that the estimate may be in need of revision in the light of data presented in this report.

d. ? indicates that no estimate is available for one or more populations of the species.

e. Estimates are placed in brackets when only a proportion of the population occurs in the AWC region.

f. Vagrant – a species that is accidental (rare and irregular) in occurrence.

3.2 South Asia

3.2.1 Overview

A total of 1,205 sites were surveyed during 2002 to 2004. Total numbers of waterbirds recorded were 3,941,894 (518 sites), 3,544,755 (735 sites) and 3,014,246 (548 sites) respectively in 2002, 2003 and 2004 (Figure 7 and Table 6). Thirty-three Ramsar sites, three World Heritage Sites and 111 IBAs were surveyed at least once. More than 20,000 waterbirds were recorded at 59 different sites, and 239 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

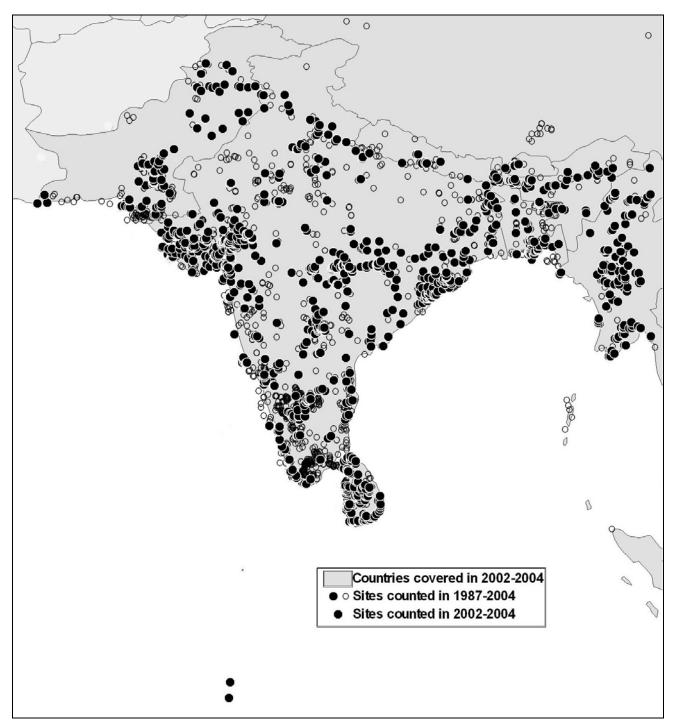


Figure 7: Sites covered by the AWC in the South Asian Region, 1987–2004

Totals of 170 waterbird and 39 wetland-dependent species (including 22 raptors, nine kingfishers, and eight wagtails and pipits) were recorded. The highest count totals of the most numerous species (more than 50,000 birds) were Northern Pintail (569,025 in 2003), Common Coot (337,154 in 2004), Northern Shoveler (269,045 in 2002), Gadwall (262,888 in 2004), Eurasian Wigeon (178,267 in 2004), Common Pochard (161,696 in 2002), Lesser Whistling Duck (150,873 in 2003), Black-tailed Godwit (NT, 126,898 in 2003), Garganey (109,408 in 2003), Demoiselle Crane (121,772 in 2003), Common Teal (106,365 in 2003), Tufted Duck (102,998 in 2002), Ferruginous Duck (NT, 93,988 in 2002), Cattle Egret (76,455 in 2002), Lesser Flamingo (NT, 71,690 in 2004), Asian Openbill (59,897 in 2002), Little Cormorant (59,719 in 2002), Cotton Pygmy Goose (55,634 in 2002), Common Crane (51,853 in 2003) and Red-crested Pochard (50,005 in 2003).

Highest count totals of 16 globally threatened species were as follows: Critically Endangered: Sociable Lapwing (8 in 2002); Endangered: Greater Adjutant (15 in 2003), White-winged Duck (2 in 2004), White-headed Duck (23 in 2003), Spoon-billed Sandpiper (6 in 2003); Vulnerable: Spot-billed Pelican (3,929 in 2003), Dalmatian Pelican (1,135 in 2002), Lesser Adjutant (214 in 2003), Marbled Teal (132 in 2004), Baer's Pochard (183 in 2003), Sarus Crane (275 in 2003), Masked Finfoot (2 in 2002), Indian Skimmer (1,000 in 2004), Pallas's Sea Eagle (27 in 2003), Greater Spotted Eagle (65 in 2003) and Imperial Eagle (6 in 2003).

Highest count totals of 14 Near Threatened species were as follows: Oriental Darter (1,226 in 2003), Painted Stork (8,408 in 2003), Black-necked Stork (88 in 2003), Black-headed Ibis (6,737 in 2002), Lesser Flamingo (71,690 in 2004), Falcated Duck (306 in 2003), Ferruginous Duck (93,988 in 2002), Asian Dowitcher (6 in 2004), Black-tailed Godwit (126,898 in 2003), Black-bellied Tern (641 in 2003), White-tailed Eagle (1 in 2004), Grey-headed Fish-eagle (24 in 2004), Lesser Fish-eagle (22 in 2004) and Pallid Harrier (9 in 2002).

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		17,605	18,463	13,465
Red-necked Grebe	Podiceps grisegena		3	1	12
Great Crested Grebe	Podiceps cristatus		531	827	1,477
Black-necked Grebe	Podiceps nigricollis		476	85	5
unidentified grebes	Podicipedidae spp.		54	1,563	682
Great White Pelican	Pelecanus onocrotalus		4,446	7,435	8,461
Spot-billed Pelican	Pelecanus philippensis	VU	1,919	3,929	1,038
Dalmatian Pelican	Pelecanus crispus	VU	1,135	266	570
unidentified pelicans	Pelecanidae spp.		20	766	4
Great Cormorant	Phalacrocorax carbo		13,053	11,332	10,940
Indian Cormorant	Phalacrocorax fuscicollis		5,679	6,579	9,718
Little Cormorant	Phalacrocorax niger		59,719	47,077	32,118
unidentified cormorants	Phalacrocoracidae spp.		5,583	3,199	8,948
Oriental Darter	Anhinga melanogaster	NT	621	1,226	637
Grey Heron	Ardea cinerea		7,274	5,519	3,664
Eastern White Egret	Ardea modesta		3,906	11,429	5,967
Intermediate Egret	Ardea intermedia		10,572	22,737	7,703
Goliath Heron	Ardea goliath		1	3	4
Purple Heron	Ardea purpurea		3,480	1,838	1,540
Cattle Egret	Ardea (Bubulcus) ibis		76,455	46,667	49,179
Green-backed Heron	Butorides striatus		199	649	42
Indian Pond Heron	Ardeola grayii		35,413	22,072	15,877
Little Egret	Egretta garzetta		47,421	24,633	21,411
Western Reef Egret	Egretta gularis		646	637	254
unidentified egrets	Egretta/Bubulcus spp.		623	3,275	542
Black-crowned Night-heron	Nycticorax nycticorax		4,996	4,517	1,864
Malayan Night-heron	Gorsachius melanolophus		27		
Eurasian Bittern	Botaurus stellaris			32	4
Little Bittern	Ixobrychus minutus			7	
Yellow Bittern	Ixobrychus sinensis		129	238	62
Cinnamon Bittern	Ixobrychus cinnamomeus		51	100	105
Black Bittern	Ixobrychus flavicollis		36	212	56
unidentified bitterns	Ixobrychus spp.			35	41
unidentified Ardeidae	Ardeidae spp.		3,177	6,063	13,441
Painted Stork	Mycteria leucocephala	NT	4,983	8,408	5,780
Asian Openbill	Anastomus oscitans		59,897	20,119	16,771
Black Stork	Ciconia nigra		127	110	168
Woolly-necked Stork	Ciconia episcopus		375	542	440
Eurasian White Stork	Ciconia ciconia		135	69	75
Black-necked Stork	Ephippiorhynchus asiaticus	NT	25	88	17
Greater Adjutant	Leptoptilos dubius	EN		15	9

Table 6: Waterbird species totals reported during the AWC in South Asia, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Lesser Adjutant	Leptoptilos javanicus	VU	77	214	211
unidentified storks	Ciconiidae spp.	NT	4	F 707	7
Black-headed Ibis Indian Black Ibis	Threskiornis melanocephalus Pseudibis papillosa	NT	4,594 3,230	<u>5,737</u> 2,413	5,317 2,928
Glossy Ibis	Plegadis falcinellus		4,760	4,817	7,265
unidentified ibises	Threskiornithidae spp.		9,800	5	7,200
Eurasian Spoonbill	Platalea leucorodia		3,863	5,141	6,315
Greater Flamingo	Phoenicopterus ruber roseus		20,339	43,439	12,590
Lesser Flamingo	Phoeniconaias minor	NT	13,019	54,623	71,690
unidentified flamingos	Phoenicopteridae spp.		6,224	253	
Fulvous Whistling Duck	Dendrocygna bicolor		20,981	40,183	8,083
Lesser Whistling Duck	Dendrocygna javanica		150,873	117,615	71,215
Greylag Goose	Anser anser		2,889	10,112	2,729
Bar-headed Goose unidentified grey geese	Anser indicus Anser spp.		<u>14,342</u> 979	20,587	19,775
Ruddy Shelduck	Tadorna ferruginea		36,996	26,554	16,133
Common Shelduck	Tadorna tadorna		6,374	7,733	12,103
White-winged Duck	Cairina scutulata	EN	0,011	1,100	2
Comb Duck	Sarkidiornis melanotos		2,542	856	4,014
Cotton Pygmy Goose	Nettapus coromandelianus		55,634	29,260	19,979
Eurasian Wigeon	Anas penelope		145,937	118,140	178,267
Falcated Duck	Anas falcata	NT	70	306	7
Gadwall	Anas strepera		228,999	194,814	262,888
Common Teal	Anas crecca		95,238	106,365	63,008
Mallard	Anas platyrhynchos		18,651	21,897	10,651
Spot-billed Duck Northern Pintail	Anas poecilorhyncha Anas acuta		<u>16,489</u> 495.096	22,852 569,025	14,680 488,688
Garganey	Anas guerguedula		55,874	109.408	73,546
Northern Shoveler	Anas clypeata		269,045	187,184	150,750
Marbled Teal	Marmaronetta angustirostris	VU	42	132	
Red-crested Pochard	Netta rufina		50,005	63,474	28,873
Common Pochard	Aythya ferina		161,696	93,969	68,408
Baer's Pochard	Aythya baeri	VU	161	183	43
Ferruginous Duck	Aythya nyroca	NT	93,988	13,275	28,701
Tufted Duck	Aythya fuligula		102,998	88,125	20,773
Red-breasted Merganser	Mergus serrator		2	10	
Goosander White-headed Duck	Mergus merganser	EN	<u>414</u> 5	<u>43</u> 23	<u>575</u> 5
unidentified ducks	Oxyura leucocephala Anatinae spp.	EN	363,494	176,726	342,188
Demoiselle Crane	Anthropoides virgo		9,385	121,772	61,528
Sarus Crane	Grus antigone	VU	194	275	217
Common Crane	Grus grus		4,362	51,853	9,984
unidentified cranes	Gruidae spp.		1,000	32,118	2
Slaty-legged Crake	Rallina eurizinoides		1,000		
Slaty-breasted Rail	Gallirallus striatus		1,011	11	35
Water Rail	Rallus aquaticus		83	506	22
Brown Crake	Amaurornis akool		59	18	31
Black-tailed (Elwes's) Crake	Amaurornis bicolor Amaurornis phoenicurus		4 1,788	3,650	2,629
White-breasted Waterhen Baillon's Crake	Porzana pusilla		247	<u> </u>	2,029
Ruddy-breasted Crake	Porzana fusca		31	80	29
Watercock	Gallicrex cinerea		365	427	81
Purple Swamphen	Porphyrio porphyrio		44,116	18,251	12,799
Common Moorhen	Gallinula chloropus		38,932	9,724	3,990
Common Coot	Fulica atra		334,060	309,129	337,154
unidentified rails	Rallidae spp.		2	3	
Masked Finfoot	Heliopais personata	VU	2		1
Pheasant-tailed Jacana	Hydrophasianus chirurgus		31,611	5,919	5,061
Bronze-winged Jacana	Metopidius indicus		26,393	5,362	2,957
Greater Painted Snipe Crab Plover	Rostratula benghalensis Dromas ardeola		<u>96</u> 5	<u>413</u> 6,957	<u>89</u> 8
Eurasian Oystercatcher	Haematopus ostralegus		352	344	26
Ibisbill	Ibidorhyncha struthersii		102	544	20
Black-winged Stilt	Himantopus himantopus		33,436	47,033	35,608
Pied Avocet	Recurvirostra avosetta		1,486	13,485	4,826
Stone Curlew	Burhinus oedicnemus		12	2	39
Great Thick-knee	Burhinus (Esacus) recurvirostris		558	279	252
Indian Courser	Cursorius coromandelicus			1	
Collared Pratincole	Glareola pratincola			354	9
Oriental Pratincole	Glareola maldivarum		352	89	88
Small Pratincole	Glareola lactea		7,301	3,600	3,583
Northern Lapwing	Vanellus vanellus		421	1,473	468

English Name	Scientific Name	GTS ¹	2002	2003	2004
River Lapwing	Vanellus duvaucelli	0.0	1,027	656	259
Yellow-wattled Lapwing	Vanellus malabaricus		697	1,245	876
Grey-headed Lapwing	Vanellus cinereus		636	328	424
Red-wattled Lapwing	Vanellus indicus		8,554	7,451	7,811
Sociable Lapwing	Vanellus gregarius	CR	8		
White-tailed Lapwing	Vanellus leucurus		241	756	372
unidentified lapwings	Vanellus spp.		1	70	19
Pacific Golden Plover	Pluvialis fulva		15,550	3,038	6,972
Grey Plover Great Ringed Plover	Pluvialis squatarola Charadrius hiaticula		3,797	<u>380</u> 28	<u>682</u> 5
Long-billed Plover	Charadrius placidus			20	5
Little Ringed Plover	Charadrius dubius		1,670	6,009	3.178
Kentish Plover	Charadrius alexandrinus		3,173	3,395	3,371
Lesser Sandplover	Charadrius mongolus		12,209	27,141	14,624
Greater Sandplover	Charadrius leschenaultii		1,591	502	186
unidentified Charadrius plovers	Charadrius spp.		546	95	5
Eurasian Woodcock	Scolopax rusticola		3	6	3
Jack Snipe	Lymnocryptes minimus		10	175	110
Solitary Snipe	Gallinago solitaria			44	21
Pintail Snipe	Gallinago stenura		294	330	342
Swinhoe's Snipe	Gallinago megala		0.404	97	1
Common Snipe Asian Dowitcher	Gallinago gallinago Limnodromus semipalmatus	NT	2,131	1,688 5	500 6
Black-tailed Godwit	Limosa limosa	NT	110,338	126,898	41,655
Bar-tailed Godwit	Limosa Innosa Limosa Iapponica		4,038	4.840	1.629
unidentified godwits	Limosa apponea		314	4,040	1,020
Whimbrel	Numenius phaeopus		281	1,433	131
Eurasian Curlew	Numenius arguata		14,107	2,097	540
Spotted Redshank	Tringa erythropus		883	515	92
Common Redshank	Tringa totanus		8,424	10,991	6,019
Marsh Sandpiper	Tringa stagnatilis		10,818	2,844	13,066
Common Greenshank	Tringa nebularia		3,972	3,407	1,455
Green Sandpiper	Tringa ochropus		1,934	801	492
Wood Sandpiper	Tringa glareola		3,016	6,421	4,033
Terek Sandpiper	Xenus cinereus		328	412	171
Common Sandpiper	Actitis hypoleucos		6,340	6,172	5,275
Ruddy Turnstone	Arenaria interpres		208	190	126
Red Knot	Calidris canutus		10	25	07
Great Knot	Calidris tenuirostris Calidris alba		<u> </u>	40 152	37 29
Sanderling Little Stint	Calidris alba		18,585	48,044	29 21,696
Temminck's Stint	Calidris temminckii		3,064	5,247	1,396
Long-toed Stint	Calidris subminuta		3,004	16	40
Curlew Sandpiper	Calidris ferruginea		4,364	4,577	25,559
Dunlin	Calidris alpina		20,926	830	1,575
Spoon-billed Sandpiper	Eurynorhynchus pygmaeus	EN	1	6	,
Broad-billed Sandpiper	Limicola falcinellus		80	3	74
Ruff	Philomachus pugnax		13,409	31,520	14,458
unidentified Calidris sandpipers	Calidris spp.		591	9	25
unidentified Tringa sandpipers	<i>Tringa</i> spp.		10,000		
Red-necked Phalarope	Phalaropus lobatus		4	2	1
unidentified shorebirds	Charadrii spp.		152,377	26,775	51,581
Sooty Gull	Larus hemprichii		94		
Heuglin's Gull	Larus heuglini		3,682	1,865	9,484
Yellow-legged Gull	Larus cachinnans		1 607	18	52
Great Black-headed (Pallas's) Gull Brown-headed Gull	Larus ichthyaetus Larus brunnicephalus		1,607 9,265	3,859 19,427	1,964 8,007
Common Black-headed Gull	Larus brunnicephalus Larus ridibundus		8,865	32,141	3,731
Slender-billed Gull	Larus genei		743	1,048	1,032
Little Gull	Larus minutus		145	1,0+0	1,002
unidentified gulls	Laridae spp.		2,329	5,974	687
Gull-billed Tern	Gelochelidon nilotica		2,941	2,117	1,082
Caspian Tern	Sterna caspia		638	1,163	1,282
Lesser Crested Tern	Sterna bengalensis		3,487	27,183	275
Sandwich Tern	Sterna sandvicensis		83	90	
(Greater) Crested Tern	Sterna bergii		352	13,969	238
River Tern	Sterna aurantia		6,102	7,522	6,306
Black-naped Tern	Sterna sumatrana				12
Common Tern	Sterna hirundo		5,769	1,475	180
Little Tern	Sterna albifrons		4,618	4,678	1,422
Black-bellied Tern	Sterna melanogaster	NT	362	641	38
Bridled Tern	Sterna anaethetus				20

English Name	Scientific Name	GTS ¹	2002	2003	2004
Whiskered Tern	Chlidonias hybridus		22,755	18,054	25,842
White-winged Black Tern	Chlidonias leucopterus		828	19	30
unidentified terns	Sterninae spp.		2,028	13,747	13,601
Brown Noddy	Anous stolidus		,	,	<u>í</u> 1
Lesser Noddy	Anous tenuirostris				11
Indian Skimmer	Rynchops albicollis	VU	975	661	1,000
Total Waterbirds			3,941,894	3,544,755	3,014,246
Osprey	Pandion haliaetus		84	109	53
Black-shouldered Kite	Elanus caeruleus		15	10	
Black Kite	Milvus migrans		426	888	55
Brahminy Kite	Haliastur indus		186	669	522
White-bellied Fish-eagle	Haliaeetus leucogaster		29	45	46
Pallas's Sea Eagle	Haliaeetus leucoryphus	VU	11	27	15
White-tailed Sea Eagle	Haliaeetus albicilla	NT			1
Lesser Fish-eagle	Ichthyophaga humilis	NT		3	22
Grey-headed Fish-eagle	Ichthyophaga ichtyaetus	NT	9	15	24
Crested Serpent-eagle	Spilornis cheela		•	10	2
Hen Harrier	Circus cyaneus			1	-
Pallid Harrier	Circus macrourus	NT	9	4	
Pied Harrier	Circus melanoleucos	INI	4	3	2
Montagu's Harrier	Circus pygargus		2	5	1
Western Marsh Harrier	Circus aeruginosus		71	532	454
Eastern Marsh Harrier	Circus spilinotus		/ 1	44	<u>434</u> 5
Lesser Spotted Eagle	Aquila pomarina		7	3	5
Greater Spotted Eagle	Aquila pomarina Aquila clanga	VU	26	<u> </u>	26
	Aquila cianga Aquila nipalensis	VU	20	3	20
Steppe Eagle		VU	4		5
Imperial Eagle	Aquila heliaca	VU	4	6	5
Changeable Hawk-eagle	Spizaetus cirrhatus			40	1
Peregrine Falcon	Falco peregrinus			48	2
unidentified raptors				13	27
Ruddy Kingfisher	Halcyon coromanda			34	
Stork-billed Kingfisher	Halcyon capensis		3	122	65
Brown-winged Kingfisher	Halcyon amauroptera			91	15
White-throated Kingfisher	Halcyon smyrnensis		36	1,693	827
Black-capped Kingfisher	Halcyon pileata		1	196	19
Collared Kingfisher	Todiramphus chloris			40	3
Oriental Dwarf Kingfisher	Ceyx erithacus			1	
Common Kingfisher	Alcedo atthis		15	1,192	645
Pied Kingfisher	Ceryle rudis		143	1,012	534
unidentified kingfishers	Alcedinidae spp.			23	3
White Wagtail	Motacilla alba		17	2,613	1,737
White-browed wagtail	Motacilla maderaspatensis			1,095	673
Grey Wagtail	Motacilla cinerea			3,878	2,636
Citrine Wagtail	Motacilla citreola		4	307	210
Yellow Wagtail	Motacilla flava			2,733	3,833
unidentified wagtails	Motacilla spp.				114
Water Pipit	Anthus spinoletta			211	375
Red-throated Pipit	Anthus cervinus			1	1
Paddyfield Pipit	Anthus rufulus				14

Note:

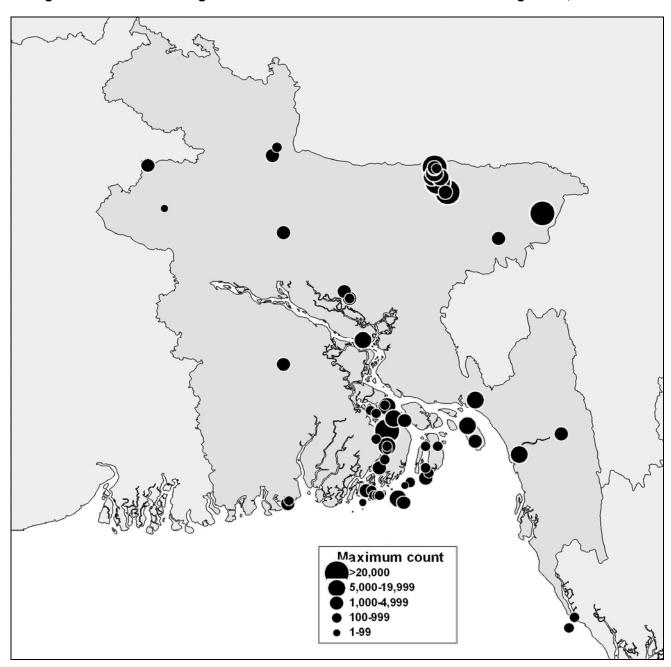
GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.2.2 Bangladesh

Sixty-one sites were surveyed at least once during the three years 2002–2004 (Figure 8 and Table 7). Waterbird totals recorded were 294,808 (33 sites), 428,674 (30 sites) and 570,893 (42 sites) respectively in 2002, 2003 and 2004.

Tangua Haor and the Sundarbans, the only two Ramsar sites (both IBAs) in Bangladesh were surveyed; the Sundarbans is also a UNESCO World Heritage Site. In addition, six IBAs were surveyed.

Sites that recorded more than 20,000 waterbirds were Tangua Haor Complex (more than 200,000 waterbirds in all three years), Tagrar Char (151,110 in 2004), Aila Beel (131,783 in 2003), Chatidhara Beel (38,449 in 2004) and Hakaluki Haors (34,483 in 2004). A total of 22 sites recorded more than 1% of the biogeographic population of at least one waterbird species.





Totals of 105 waterbird, 11 raptor and seven kingfisher species were recorded during the three years (Table 8). The most numerous species recorded were Northern Pintail (128,809 in 2003), Ferruginous Duck (92,680 in 2002), Gadwall (68,321 in 2003), Eurasian Wigeon (58,728 in 2004), Common Coot (41,000 in 2003), Fulvous Whistling Duck (31,783 in 2003), Red-crested Pochard (14,333) and Common Shelduck (11,676 in 2004).

The highest count totals of six Vulnerable species during this period (Table 8) were as follows: Lesser Adjutant (14 in 2002), Baer's Pochard (151 in 2002), Masked Finfoot (2 in 2002), Indian Skimmer (1,000 in 2004), Pallas's Fish-eagle (7 in 2002) and Greater Spotted Eagle (3 in 2004). Highest counts of the nine Near Threatened species were as follows: Oriental Darter (5 in 2004), Black-headed Ibis (149 in 2003), Lesser Flamingo (12 in 2002), Falcated Duck (10 in 2002), Ferruginous Duck (92,680 in 2002), Asian Dowitcher (2 in 2004), Black-tailed Godwit (5,923 in 2003), Black-bellied Tern (6 in 2002) and Grey-headed Fish-eagle (2 in 2004).

Major threats to the wetlands and waterbirds reported were agricultural development, wetland reclamation, clearance of vegetation and waterbird hunting and poaching. The counts were coordinated by the Bangladesh Bird Club.

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Barisal	Banger Char					7,249
Barisal	Bheduria Char				103	
Barisal	Dholar Char				1,559	400
Barisal	Dighai Char			4 700	772	406
Barisal	Doba Char			1,736	3,459	79
Barisal	Ganeshpur Char			0.916	280 8,088	4 709
Barisal Barisal	Gazipur Char Islam Char			9,816	0,000	<u>4,798</u> 44
Barisal	Kalakacha Char			73		44
Barisal	Kalkiny Char			4,802		
Barisal	Kashem Char			1,488		
Barisal	Kazir Char			1,400		836
Barisal	Kochuar Char				420	000
Barisal	Kukri-Mukri Char			642	31	
Barisal	Laksmi Char			196		
Barisal	Montaj Char			383		
Barisal	Mudflat East of Moulovir Char			1,080	281	
Barisal	Nabir Char			279	201	163
Barisal	New Char, Opposite Dewla			210		1.500
Barisal	New Char, West of Najirpur					164
Barisal	Peal (Pial) Char			119	207	72
Barisal	Samiruddin Char			11,220	207	12
Barisal	Shahjalal Char			1,562	2,306	10,368
Barisal	Sikder Char			601	2,000	10,000
Barisal	Tagrar Char			001		151,110
Barisal	Taltalir Char					529
Barisal	Urir Char				8,061	2,392
Chittagong	Ganges Delta: Hatia North	pl			0,001	230
Chittagong	Ganges Delta: Hatia West	pl				175
Chittagong	Jahajmara	F		1,362	801	1,996
Chittagong	Kaptai Lake					1,875
Chittagong	Moulavir Char			966	425	640
Chittagong	Muhuri Dam	I	48DF	4,086	9,158	10,092
Chittagong	Ganges Delta: Nijum Dweep	pl		660	666	687
Chittagong	Patenga Beach	İ	2AFH	825	2,367	6,301
Chittagong	St. Martins Island		L			102
Chittagong	Teknaf					461
Dhaka	Chapada Beel		6HI	3,096	1,714	
Dhaka	Dhaka Zoo		4	78	819	
Dhaka	Dighirpar		6F	5,164		234
Dhaka	Jahangirnagar University (JU) Campus		489D	1,394	1,912	1,401
Dhaka	Mirpur Ceramic Factory Premises		A			3,215
Khulna	Sundarbans: Kachikhali	pR, pI,	L	294		507
Khulna	Sundarbans: Katka	pW	L	1,333		202
Rajshahi	Gaibandha North			757		
Rajshahi	Jabai Beel		26			2,735
Rajshahi	Shariakandi		F		1,156	
Rajshahi	Sirajganj (Jamuna River)		F	1,633	2,663	422
Rajshahi	Utrail Beel		26			95
Sylhet	Aila (Ailer) Beel		5H		131,783	104
Sylhet	Chatidhara Beel					38,449
Sylhet	Hail Haor		24678FGI	701	1,116	693
Sylhet	Hakaluki Haors		67FGI	- · -	26,380	34,483
Sylhet	Khajauory Beel		<u>4H</u>	247	486	
Sylhet	Khana Muia Beel		61	3,436	14,190	4 504
Sylhet	Pagna Beel		61	F 4 4	0.007	4,561
Sylhet	Pana Beel		HI	544	2,087	406
Sylhet	Pashua Haor		461	5,335	4,319	1,214
Sylhet	Rowa Beel		61			1,973
Sylhet	Shonir Haor		6CDI	228.002	201 100	7,238
Sylhet	Tangua Haor Complex	R, I	46HI	228,992	201,106	270,761

Table 7: Wetland sites surveyed during the AWC in Bangladesh, 2002–2004

Notes:
Status¹: R – Ramsar site, pR – part of a Ramsar site, I – IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), pW – part of a UNESCO World Heritage Site.
Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 8: Waterbird species counts reported during the AWC in Ban
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English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		1,559	1,174	588
Great Crested Grebe	Podiceps cristatus		16	29	190
Great Cormorant	Phalacrocorax carbo		7	68	170
Little Cormorant	Phalacrocorax niger	NT	532	1,320	802
Oriental Darter Grey Heron	Anhinga melanogaster Ardea cinerea	NT	4	209	<u>5</u> 260
Eastern White Egret	Ardea modesta		709	1,541	487
Intermediate Egret	Ardea intermedia		2,715	9,432	1,087
Purple Heron	Ardea purpurea		15	14	20
Cattle Egret	Ardea (Bubulcus) ibis		422	251	247
Green-backed Heron	Butorides striatus		2		
Indian Pond Heron	Ardeola grayii		594	251	368
Little Egret	Egretta garzetta		1,576	372	731
Black-crowned Night-heron Malayan Night-heron	Nycticorax nycticorax Gorsachius melanolophus		37	264	800
Yellow Bittern	Ixobrychus sinensis		5		
Cinnamon Bittern	Ixobrychus cinnamomeus		4	1	1
Black Bittern	Ixobrychus flavicollis		1		
Unidentified Ardeidae	Ardeidae spp.		53		180
Asian Openbill	Anastomus oscitans				133
Lesser Adjutant	Leptoptilos javanicus	VU	14	2	4
Black-headed Ibis	Threskiornis melanocephalus	NT	109	149	84
Glossy Ibis	Plegadis falcinellus		2	11	1
Eurasian Spoonbill Fulvous Whistling Duck	Platalea leucorodia Dendrocygna bicolor		11,099	31,783	4,766
Lesser Whistling Duck	Dendrocygna javanica		5,118	4,370	5,008
Greylag Goose	Anser anser		0,110	33	3
Bar-headed Goose	Anser indicus		356	14	151
Ruddy Shelduck	Tadorna ferruginea		7,424	9,631	3,438
Common Shelduck	Tadorna tadorna		5,640	7,046	11,676
Comb Duck	Sarkidiornis melanotos		2	4	
Cotton Pygmy Goose	Nettapus coromandelianus		368	81	408
Eurasian Wigeon Falcated Duck	Anas penelope Anas falcata	NT	2,870 10	4,252	58,728
Gadwall	Anas strepera	INI	9,945	68,321	81,517
Common Teal	Anas crecca		1,435	348	4,722
Mallard	Anas platyrhynchos		17	13	22
Spot-billed Duck	Anas poecilorhyncha		1,240	213	489
Northern Pintail	Anas acuta		52,233	128,809	85,109
Garganey	Anas querquedula		3,059	5,761	23
Northern Shoveler Red-crested Pochard	Anas clypeata Netta rufina		8,520 6,700	6,157 14,333	4,727 10,356
Common Pochard	Aythya ferina		5,072	3,362	6,977
Baer's Pochard	Aythya baeri	VU	151	30	25
Ferruginous Duck	Aythya nyroca	NT	92,680	11,277	25,411
Tufted Duck	Aythya fuligula		110	4,359	4,976
unidentified ducks	Anatinae spp.		25,480	56,500	210,011
White-breasted Waterhen	Amaurornis phoenicurus		16	12	5
Baillon's Crake	Porzana pusilla		6	6	1
Ruddy-breasted Crake Purple Swamphen	Porzana fusca Porphyrio porphyrio		<u> </u>	5 128	199
Common Moorhen	Gallinula chloropus		429	132	210
Common Coot	Fulica atra		19,975	41,000	31,685
Masked Finfoot	Heliopais personata	VU	2	,	1
Pheasant-tailed Jacana	Hydrophasianus chirurgus		855	253	322
Bronze-winged Jacana	Metopidius indicus		8	8	4
Greater Painted Snipe	Rostratula benghalensis			2	22
Eurasian Oystercatcher	Haematopus ostralegus		2	37	71
Black-winged Stilt Pied Avocet	Himantopus himantopus Recurvirostra avosetta		<u>2,100</u> 178	18	39
Great Thick-knee	Burhinus (Esacus) recurvirostris		7	10	11
Small Pratincole	Glareola lactea		4,472	259	74
Northern Lapwing	Vanellus vanellus		7	5	
River Lapwing	Vanellus duvaucelli		7		
Grey-headed Lapwing	Vanellus cinereus		397	69	33
Red-wattled Lapwing	Vanellus indicus		24	16	13
Pacific Golden Plover	Pluvialis fulva		2,099	470	1,635
Grey Plover Little Ringed Plover	Pluvialis squatarola Charadrius dubius		82	15	62
Kentish Plover	Charadrius alexandrinus		716	47	30
	Sharaanas aiskanannas		710	τ/	

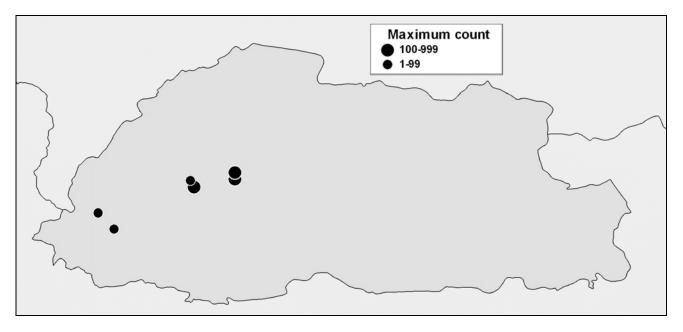
English Name	Scientific Name	GTS ¹	2002	2003	2004
Lesser Sandplover	Charadrius mongolus		1,207	3,330	849
Greater Sandplover	Charadrius leschenaultii		145	22	20
Pintail Snipe	Gallinago stenura		4		
Common Snipe	Gallinago gallinago		28	39	6
Asian Dowitcher	Limnodromus semipalmatus	NT			2
Black-tailed Godwit	Limosa limosa	NT	1,542	5,923	1,671
Bar-tailed Godwit	Limosa lapponica		3,413		68
Whimbrel	Numenius phaeopus		101	93	42
Eurasian Curlew	Numenius arquata		1,430	314	224
Spotted Redshank	Tringa erythropus		7	25	2
Common Redshank	Tringa totanus		688	465	239
Marsh Sandpiper	Tringa stagnatilis		26	62	9
Common Greenshank	Tringa nebularia		416	194	333
Green Sandpiper	Tringa ochropus		32	6	6
Wood Sandpiper	Tringa glareola		44	34	51
Terek Sandpiper	Xenus cinereus		62	18	18
Common Sandpiper	Actitis hypoleucos		38	34	9
Ruddy Turnstone	Arenaria interpres		14	7	7
Great Knot	Calidris tenuirostris		2		
Sanderling	Calidris alba		12	11	
Little Stint	Calidris minuta		131	86	523
Temminck's Stint	Calidris temminckii		1	35	9
Curlew Sandpiper	Calidris ferruginea		2		3
Ruff	Philomachus pugnax		42	141	46
unidentified shorebirds	Charadrii spp.		229	2,137	4,142
Great Black-headed (Pallas's) Gull	Larus ichthyaetus		240	217	64
Brown-headed Gull	Larus brunnicephalus		982	106	587
Common Black-headed Gull	Larus ridibundus		59	106	163
unidentified gulls	Laridae spp.			30	409
Gull-billed Tern	Gelochelidon nilotica		4	2	8
Caspian Tern	Sterna caspia		2	3	13
Lesser Crested Tern	Sterna bengalensis		12		
River Tern	Sterna aurantia		36	2	1
Common Tern	Sterna hirundo		57	7	
Little Tern	Sterna albifrons		4	46	3
Black-bellied Tern	Sterna melanogaster	NT	6	1	
Whiskered Tern	Chlidonias hybridus		1,112	372	781
White-winged Black Tern	Chlidonias leucopterus		5		
unidentified terns	Sterninae spp.		1,315	31	466
Indian Skimmer	Rynchops albicollis	VU	503	500	1,000
Total Waterbirds			294,808	428,674	570,893
Osprey	Pandion haliaetus		3	2	1
Black-shouldered Kite	Elanus caeruleus		4		
Black Kite	Milvus migrans		22	8	22
Brahminy Kite	Haliastur indus		2	4	
White-bellied Fish-eagle	Haliaeetus leucogaster		5		9
Pallas's Fish-eagle	Haliaeetus leucoryphus	VU	7	3	4
Grey-headed Fish-eagle	lchthyophaga ichthyaetus	NT	1	1	2
Pied Harrier	Circus melanoleucos		4	3	2
Western Marsh Harrier	Circus aeruginosus		13	13	8
Lesser Spotted Eagle	Aquila pomarina		7	3	
Greater Spotted Eagle	Aquila clanga	VU			3
Stork-billed Kingfisher	Halcyon capensis		3	4	4
Brown-winged Kingfisher	Halcyon amauroptera				7
White-throated Kingfisher	Halcyon smyrnensis		2		
Black-capped Kingfisher	Halcyon pileata		1		4
Collared Kingfisher	Todiramphus chloris				3
Common Kingfisher	Alcedo atthis		2		
Pied Kingfisher	Ceryle rudis		4		

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): VU – Vulnerable; NT – Near Threatened.

3.2.3 Bhutan

A census was conducted in 2002 only and covered six sites (Figure 9 and Table 9): 1,160 individuals of 18 waterbird species were recorded. In addition, two raptor and two kingfisher species were recorded (Table 10). One site, namely Babesa Sewerage Station, recorded more than 1% of the Goosander population (89 individuals in 2002), which makes it a site of international importance. One wetland IBA, Paro wetlands, was also surveyed. The observation of a total of 102 Ibisbills at five sites is the largest number of this species ever reported to the AWC.

Information on threats to the wetlands was not available for most of the sites, but at one site reclamation was reported. The data were contributed by individual counters.



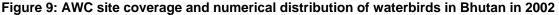


Table 9: Wetland sites surveyed during the AWC in Bhutan in 2002

Province	Site Name	Status ¹	Threats ²	2002
Paro	Paro Chhu River Isuna – Bondey Bridge	pl		29
Paro	Paro Chhu River Paro Town – Kichu Resort	pl		51
Punakha	Puna Sang Chhu River Chime Chorten – Punakha			271
Thimphu	Babesa Sewerage Station			191
Thimphu	Marsh behind Swing Pool Sports Complex			6
Wangdue Phodrang	Puna Sang Chhu River Wangdue Phodrang Bridge – Chime Chorte			621
Notos				

Status¹: pl – part of an IBA identified by BirdLife International (2005). Threats²: I – Partial reclamation.

Table 10: Waterbird species counts reported during the AWC in Bhutan in 2002

English Name	Scientific Name	2002
Great Cormorant	Phalacrocorax carbo	57
Ruddy Shelduck	Tadorna ferruginea	595
Gadwall	Anas strepera	5
Common Teal	Anas crecca	1
Mallard	Anas platyrhynchos	119
Spot-billed Duck	Anas poecilorhyncha	6
Goosander	Mergus merganser	126
Black-tailed (Elwes's) Crake	Amaurornis bicolor	4
Common Coot	Fulica atra	3
Ibisbill	Ibidorhyncha struthersii	102
River Lapwing	Vanellus duvaucelli	42
Long-billed Plover	Charadrius placidus	19
Eurasian Woodcock	Scolopax rusticola	1

English Name	Scientific Name	2002
Pintail Snipe	Gallinago stenura	20
Common Snipe	Gallinago gallinago	12
Common Greenshank	Tringa nebularia	2
Green Sandpiper	Tringa ochropus	21
Common Sandpiper	Actitis hypoleucos	25
Total Waterbirds		1,160
Osprey	Pandion haliaetus	1
White-bellied Fish-eagle	Haliaeetus leucogaster	2
White-throated Kingfisher	Halcyon smyrnensis	3
Common Kingfisher	Alcedo atthis	3

3.2.4 India

A total of 904 sites were surveyed at least once in all three years (Figure 10 and Table 11). Total numbers of waterbirds recorded were 2,923,382 (341 sites), 2,501,605 (549 sites) and 2,037,691 (407 sites) respectively in 2002, 2003 and 2004. Eleven Ramsar sites, one UNESCO World Heritage Site and 63 IBAs were also covered. The 2002 data were published by the Bombay Nature History Society (Rahmani *et al.* 2002), and a report of the 2003–2005 data was made available at the BNHS website (www.bnhs.org).

Forty-three sites recorded more than 20,000 waterbirds; they were Chilika Lake (1,349,587 in 2002). Bhitarkanika Mangrove (280,463 in 2003), Hirakud Reservoir (160,449 in 2002), Mandovi Estuary (120,485 in 2002), Kole Wetlands (101,359 in 2004), Pipalava Bandharo (76,427 in 2003), Pong Dam Bird Sanctuary (73,892 in 2003), Sangameshwara (71,563 in 2002), Harabhangi (67,274 in 2002), Farakka Barrage (64,656 in 2003), Manjira Wildlife Sanctuary (61,185 in 2002), Nizamsagar Dam (60,704 in 2002), National Chambal Wildlife Sanctuary (53,115 in 2002), Amipur Tank (53,828 in 2004), Jamnagar Taluka wetlands (52,695 in 2003), Dwaraka Taluka wetlands (48,749 in 2003), Great Rann of Kachchh (45,738 in 2004), Victor Salt Pans and Coastal area (43,320 in 2003), Kanewal (41,127 in 2004), Pariej (36,623 in 2003), Pulicat Lake Bird Sanctuary (34,536 in 2002), Laknapur Project (33,446 in 2002), Dev Dam (32,157 in 2004), Sewree Jetty (28,623 in 2003), Rengali (28,501 in 2002), Morva Hadaf Dam (Patangdi) (28,102 in 2004), Khambhalia Taluka wetlands (28,082 in 2003), Mathankodu Tank (27,498 in 2002), Hipparga Tank (27,403 in 2003), Haripura Reservoir (26,844 in 2002), Wadwana (25,868 in 2003), Karavetty Tank (25,778 in 2003), Jafarabad Coast (23,933 in 2003), Nani Kakrad (23,271 in 2004), Lambhvel Sewage Pond (22,851 in 2003), Godavari River (22,318 in 2002), Roka Lake (22,300 in 2003), Pampalo (22,035 in 2003), Misamari Beel (21,876 in 2003), Chapora Estuary: Marjim - 'Tembwado' Coastline (21,693 in 2003), Krishnaraja Sagar Reservoir (21,225 in 2004), Ibrahimpatan Lake (21,191 in 2002) and Mahi River Estuary: Sarod J Point (20,280 in 2004). A total of 172 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Totals of 154 waterbird, 16 raptor and nine kingfisher species were recorded (Table 12). The most numerous species (with a count of more than 50,000 individuals) recorded were Northern Pintail (396,748 in 2002), Common Coot (245,307 in 2004), Northern Shoveler (223,213 in 2002), Gadwall (195,592 in 2002), Lesser Whistling Duck (142,628 in 2002), Demoiselle Crane (121,772 in 2003), Eurasian Wigeon (116,302 in 2002), Common Pochard (114,108 in 2002), Black-tailed Godwit (NT, 113,044 in 2003), Garganey (92,417 in 2003), Tufted Duck (90,459 in 2002), Lesser Flamingo (NT, 71,690 in 2004), Cattle Egret (66,562 in 2002), Asian Openbill (58,509 in 2002), Cotton Pygmy Goose (55,026 in 2002), Common Teal (54,55 in 2003), Little Cormorant (52,555 in 2002) and Common Crane (51,811 in 2003).

The highest count totals of 13 globally threatened species recorded during this period (Table 12) were as follows: the Critically Endangered: Sociable Lapwing (2 in 2002); Endangered: Greater Adjutant (15 in 2003), White-winged Duck (2 in 2004), Spoon-billed Sandpiper (6 in 2003); Vulnerable: Spot-billed Pelican (3,381 in 2003), Dalmatian Pelican (570 in 2004), Lesser Adjutant (205 in 2003), Baer's Pochard (153 in 2003), Sarus Crane (275 in 2003), Indian Skimmer (472 in 2002), Pallas's Fish-eagle (22 in 2003), Greater Spotted Eagle (49 in 2003) and Imperial Eagle (5 in 2004).

Highest count totals of 14 Near Threatened species were as follows: Oriental Darter (1,015 in 2003), Painted Stork (7,933 in 2003), Black-necked Stork (49 in 2003), Black-headed Ibis (4,734 in 2003), Lesser Flamingo (71,690 in 2004), Falcated Duck (300 in 2003), Ferruginous Duck (3,270 in 2004), Asian Dowitcher (5 in 2003), Black-tailed Godwit (113,044 in 2003), Black-bellied Tern (562 in 2003), White-tailed Eagle (1 in 2004), Grey-headed Fish-eagle (12 in 2003), Lesser Fish-eagle (22 in 2004) and Pallid Harrier (1 in 2003).

The population of Goliath Herons (4 in 2004) is also very threatened. The major threats to wetlands reported were agricultural development, excessive cattle grazing and fishing besides illegal hunting of waterbirds.

The counts were coordinated by the Bombay Natural History Society.

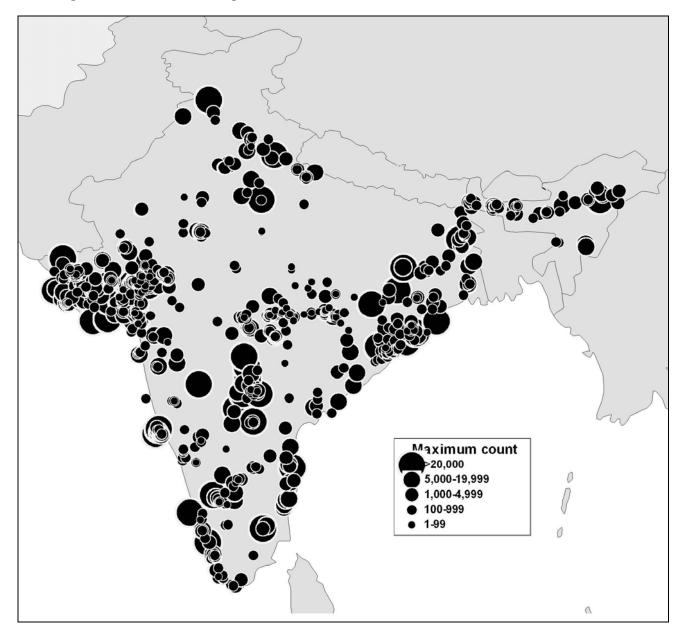


Figure 10: AWC site coverage and numerical distribution of waterbirds in India, 2002–2004

Table 11: Wetland sites surveyed during the A	AWC in India, 2002–2004
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State	Site Name	Status ¹	Threats ²	2002	2003	2004
Andhra Pradesh	Akiveedu Fishery Pond					343
Andhra Pradesh	Alisagar			267		
Andhra Pradesh	Ameenapur Tank		7EH	786	1,651	321
Andhra Pradesh	Anantaram Tank			4,480		
Andhra Pradesh	Bachpalli			4	3	
Andhra Pradesh	Bellal Cheruvu			2,677		
Andhra Pradesh	Bhimavaram – Undi Paddy Fields		CD			230
Andhra Pradesh	Bon Cheruvu				828	
Andhra Pradesh	Buttaiguddem Pond		236	271		
Andhra Pradesh	Chigurpally Tank			79		
Andhra Pradesh	Chikkadapally			10,535		

Andra Pradesh Gragiyapuran 995 Andra Pradesh Chatin Tank 100 Andra Pradesh Himayal Sagat 3.522 Andra Pradesh Himayal Sagat 3.522 Andra Pradesh Hissin Sagat 3.522 Andra Pradesh Ita'an K 8 79 Andra Pradesh Ita'an K 3065 7.544 Andra Pradesh Jankanger Cheruw 1499 909 Andra Pradesh Jankanger Cheruw 1499 901 Andra Pradesh Jakafrabad 67CD 18.154 Andra Pradesh Kalafrabad 67D 18.154 Andra Pradesh Kalafrabad 67D 70 Andra Pradesh Kalafrabad 67D 70 Andra Pradesh Kalafrabad 1001 70 Andra Pradesh Kalafrabad 707	State	Site Name	Status ¹	Threats ²	2002	2003	2004
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Andhra PradeshPocharam12,642Andhra PradeshPulicat Lake Bird SanctuaryI34,5362Andhra PradeshRanga Samudram2,460Andhra PradeshRavirala Tank2,196Andhra PradeshReddiganapavaram67D210Andhra PradeshRudur Tank6,870Andhra PradeshSangameshwara71,563366					2,039	7/0	
Andhra PradeshPulicat Lake Bird SanctuaryI34,5362Andhra PradeshRanga Samudram2,460Andhra PradeshRavirala Tank2,196Andhra PradeshReddiganapavaram67D210Andhra PradeshRudur Tank6,870Andhra PradeshSangameshwara71,563366					10/40	769	
Andhra PradeshRanga Samudram2,460Andhra PradeshRavirala Tank2,196Andhra PradeshReddiganapavaram67D210Andhra PradeshRudur Tank6,870Andhra PradeshSangameshwara71,563366			1		12,042	31 524	2,451
Andhra PradeshRavirala Tank2,196Andhra PradeshReddiganapavaram67D210Andhra PradeshRudur Tank6,870Andhra PradeshSangameshwara71,563366		,	I				2,401
Andhra PradeshReddiganapavaram67D210Andhra PradeshRudur Tank6,870Andhra PradeshSangameshwara71,563366					2,196	2,700	
Andhra PradeshRudur Tank6,870Andhra PradeshSangameshwara71,563366				67D			43
Andhra PradeshSangameshwara71,563366		<u> </u>					
						366	
	Andhra Pradesh	Sasanam Irri.Tank			172		
Andhra Pradesh Somasila Tank 3,008	Andhra Pradesh	Somasila Tank					
Andhra PradeshTamadapalli Tank822							
Andhra Pradesh Tammadi Tank, Khanamet Village 18							
Andhra Pradesh Telineela Puram I 454					454	4.400	
Andhra Pradesh Thalamudupi 4,683	Andhra Pradesh	inalamudupi				4,683	

Numbers and distribution of waterbirds and wetlands in the Asia-Pacific region. Results of the Asian Waterbird Census: 2002-2004

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Andhra Pradesh	Thathipudi Tank			13,519	584	
Andhra Pradesh	Tummadi Tank			18	56	
Andhra Pradesh Andhra Pradesh	Tummala Gudem Tank Uppalapadu Water Tank	1		1,439 1,514	1,251	3,884
Andhra Pradesh	Velamavari Palwem	1		350	1,201	3,884
Andhra Pradesh	Yerrakalva Reservoir		6GH	377	217	231
Assam	Aie River		27H	511	217	83
Assam	Assam Engineering College – Ulubari Colony Fish Pond		2711			450
Assam	Bauwwa Beel	I	267FHI			171
Assam	Bhosmari Lake		56			136
Assam	Bordoibam Bilmukh Bird Sanctuary		2467FH		2,581	1,065
Assam	Bordoloni	pl	2467FH		2,760	2,259
Assam	Chandubi Beel		26H		0.007	619
Assam	Chenamari Beel		GH		8,297	2 77/
Assam Assam	Deepor Beel Dhamar	R, I	235789ABCD			2,776 538
Assam	Dhir Beel		267FH		1,612	3,464
Assam	Doloni		267H		1,012	3,896
Assam	Japisojia – Jugibaria Beel		CDH		1,449	900
Assam	Jengdia Beel	pl	267FH		253	714
Assam	Kamranga Beel	ľ	46FG	275		
Assam	Kani Beel		246FH		2,002	1,654
Assam	Kaziranga National Park: Combined	I, W	27CL		449	1,283
Assam	Khamranga Beel		346		279	251
Assam	Kuarbari – Dalani		2467H		4,888	1,848
Assam	Kokilamukh		FHL			8,680
Assam	Matar Gadda		78H		39	16
Assam	Misamari Beel		GH		21,876	
Assam	Na Beel		67FH			700
Assam	Nameri Wildlife Sanctuary		25 (11			758
Assam	Nayasara Lake	nl	356H 2367FH		1,683	157
Assam Assam	Panidihing and Fokolai Sipi Beel	pl	2367FH 267HI		1,083	1,522
Assam	Sipi beel Sivasagar Tank		20/ПІ		628	1,522
Assam	Son Beel	1	2567FHI		020	253
Assam	Tinikunia Pukhuri	1	48GL			3,384
Assam	Urpod Beel	1	2356H			3,583
Bihar	Vikramshila Ganga Dolphin Sanctuary (Kahalgaon–Sultanganj)	I	24678BCDFH		4,002	2,102
Chandigarh U.T.	Sukhna Lake		2DFL		2,277	
Chhattishgarh	Abhanpur Tank, Dhantan Road				35	
Chhattishgarh	Anjora Village Tank		G			21
Chhattishgarh	Badhaitola Bandh		367CDFG		70	142
Chhattishgarh	Bandhawa Talab		3			535
Chhattishgarh	Bar Waterbody				23	
Chhattishgarh	Bharda Village		46		474	63
Chhattishgarh	Budatalab		(70011		176	336
Chhattishgarh	Chherikhedi		67CDH 367G			61
Chhattishgarh Chhattishgarh	Chichola Tank Chota Kodar Dam		30/G	91		95 703
Chhattishgarh	Darbha Pond			71	20	703
Chhattishgarh	Deogaon Tank (Bar Nawa Para Sanctuary)		67CDG		225	
Chhattishgarh	Deotola Crossroad Tank		3467CDFG		220	166
Chhattishgarh	Gadhiya Dabri–Umaria		010/00/0		34	24
Chhattishgarh	Gajgidhni Tank		2467CDFG		420	
Chhattishgarh	Gangrel Dam				32	
Chhattishgarh	Gayatri Nagar Marsh		48HI	31	43	177
Chhattishgarh	Gidhori Tank – I					403
Chhattishgarh	Gidhori Tank – II					24
Chhattishgarh	Kharoon River		89ABCD	33		
Chhattishgarh	Khartora		3	12		
Chhattishgarh	Kori Dam		HL	447		
Chhattishgarh	Kosamsara Kosangi Desenveir		3	36	1120	
Chhattishgarh	Kosrangi Reservoir Kurud – Mandir Hasand		Н		4,139	7 400
Chhattishgarh Chhattishgarh	Kurud – Mandir Hasand Kurud Tank		<u>н</u> 67FH	1,258	347	7,688 966
Chhattishgarh	Lakholi Tank		0/111	1,200	347	900
Chhattishgarh	Lendwa Tank – Mandher				30	77
Simulationgulfi	Limtara		3	15		11
Chhattishgarh						
Chhattishgarh Chhattishgarh	Mahanadi – Dhamni		HL	94		
Chhattishgarh Chhattishgarh Chhattishgarh	Mahanadi – Dhamni Mahanadi River		HL6	<u>94</u> 82		
Chhattishgarh						1,149

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Chhattishgarh	Manohar Sagar Bandh		6GL	55		
Chhattishgarh	Murethi Res			350		
Chhattishgarh	Naiya (Budera) Tank		8FG	37	153	
Chhattishgarh	Nayak Tand Tank		8	18		
Chhattishgarh	Odiya		24750		170	40
Chhattishgarh	Orarbandh Patewa Tank		347FG		178	4 F
Chhattishgarh Chhattishgarh	Pendrawan Tank – Bangoli		67EFGH	1,811	968	65 1,125
Chhattishgarh	Pikridih Reservoir		67FG	779	155	1,123
Chhattishgarh	Rani Laxmidevi Jalashaya		6FH	,,,,	78	
Chhattishgarh	Ranisagar Talao		468G		104	
Chhattishgarh	Rasmara Tanks		467FG		130	
Chhattishgarh	Rasni Pond		3	75		
Chhattishgarh	Sendh Tank/Reservoir		FGL	1,717	107	1,123
Chhattishgarh	Seonath River		6H	96	89	
Chhattishgarh	Shivnath River		2E			113
Chhattishgarh	Singhanpur					79
Chhattishgarh	Tappa Tank		3467CDFGHL	460	075	100
Chhattishgarh	Telibandha Tank		38H	76	275	2 010
Delhi/U.P	Yamuna River: Okhla Barrage Bird Sanctuary Agarwaddo Marshes		46789ACDFH	4,569	19,152 1,436	3,918
Goa Goa	Agassaim Mudflats		1	1,330	4,154	
Goa	Batim Tank		1	1,550	7,646	6,010
Goa	Carambolim Tank	1	3FG	7,429	4,658	1,384
Goa	Chapora Estuary: Marjim – 'Tembwado' Coastline	I	G	1,662	21,693	2,448
Goa	Ciba–Geigy–Corlim		1	112	125	53
Goa	Cumbarjua Canal		1		630	
Goa	Curtorim Lake		35689AF		4,645	
Goa	Curtorim Mangroves		67EFG		746	
Goa	Macasana Tanks		F	6,818	13,019	6,911
Goa	Maina Lake		56F		4,424	
Goa	Mandovi Estuary		1	120,485	45,844	13,857
Goa	Neura Wetlands		67	729	232	
Goa	Raitollem Lake		367BFI		664	
Goa	Raiturem Mangroves		678EFGI		2,428	
Goa	Santa Cruz Pond		1	710	343	
Goa	Seraulim Lake		3578FI	270	3,915	
Goa	Shiroda Adadra		368E 7G	278	3,437	750
Gujarat Gujarat	Adadia Aghlod Talav		G			335
Gujarat	Aji – I		6	2,050		1,231
Gujarat	Aji – II		2678CDG	2,030	248	1,463
Gujarat	Ajwa		7FG	2,667	240	1,405
Gujarat	Alansagar Lake		26CD	2,007		15,946
Gujarat	Amali Dam		8FHL	1,473	813	172
Gujarat	Ambla Talav		CD	·		125
Gujarat	Amipur Tank					53,828
Gujarat	Avaniya Pond			396	738	188
Gujarat	Bajana Creek – Tandi		1		625	
Gujarat	Bamanwad				570	1,734
Gujarat	Bandiabeli Talav					1,654
Gujarat	Barbodan Lake		37	504	754	644
Gujarat	Barka Talav Bhadar Dam		7G	007		1,179
Gujarat	Bhadar Dam Bhadkha		G	927	100	_
Gujarat Gujarat	Bhadkha Bhadreshwar Creek		8H	555	190 253	355
Gujarat	Bhimasar Tank		238	197		<u>355</u> 847
Gujarat	Boriyala Tank		67GH	177	70	2,503
Gujarat	Boriyavi Village Pond		G		987	2,000
Gujarat	Borsi Dam		č		48	
Gujarat	Bortalav				296	
Gujarat	Causeway Lake		K			354
Gujarat	Charakla Saltworks			10,220		
Gujarat	Chhab Talav		8L	317		
Gujarat	Chhari Dhandh	pl	246GFHL	6,640	0	2,426
Gujarat	Chhatardi Tank		38L		0	291
Gujarat	Chhaya Creek					5,273
Gujarat	Chhotaudepur Pond				553	
Gujarat	Curly Tidal Area		2	400	70	209
Gujarat	Dahisara Village Tank		3	122	73	38
Gujarat Gujarat	Daloli Dantiwada Dam		6G		6,324	607
LEURIAL AL						14,609

State	Site Name	Status ¹ Threats ²	2002	2003	2004
Gujarat	Dedadra Talav				3,981
Gujarat	Demli Tank	0	1,854	463	124 32,157
Gujarat Gujarat	Dev Dam Devisar Tank	<u> </u>	380	2,825 86	1,866
Gujarat	Devisar Talik Devsar		300	2,555	1,000
Gujarat	Dhakwada			2,984	
Gujarat	Dholi Dhaja Dam	236789ABCD	16,328	988	9,582
Gujarat	Dhonsaa Jheel	6L	798		
Gujarat	Dhrokadia Dam (Advana)				142
Gujarat	Dodhasan Mandir				1,502
Gujarat	Don Reservoir	68GL	143	562	181
Gujarat	Dongaria Talav	2/50			231
Gujarat Gujarat	Dori Kalwada	36FGI		070	213
	Doswada Dudhroi Talay	6		873	630
Gujarat Gujarat	Dudhrej Talav Eshar Dam			27	1,913
Gujarat	Fad Dang – Beti	467G	1,299	358	611
Gujarat	Fansa Tank	1	1,277	579	011
Gujarat	Gangasar Tank	78HG	544	311	
Gujarat	Garibpura Pond	K	245	309	954
Gujarat	Gatehara Pond – Saij	AFGI	210		518
Gujarat	Gaurishanker Lake	9KGL	2,747		2,883
Gujarat	Gautameshwar Lake	78		1,479	
Gujarat	Gavier Lake		142	273	
Gujarat	Gengadia	7GH			284
Gujarat	Ghodadhroi Reservoir				84
Gujarat	Ghogha Coast and Salt Pans			172	16
Gujarat	Gobarapura	Н		1,252	3,743
Gujarat	Golabresda				222
Gujarat	Gorad Smashan	89A		211	
Gujarat	Gosabara - 1				407
Gujarat	Great Rann of Kachchh	(0)		1 700	45,738
Gujarat	Guneli	6GH		1,739	4,046
Gujarat	Gutal			506	(02
Gujarat	Hadmatiya Dam or Dairy Dam	01	1 205	198	683
Gujarat Gujarat	Hamirsar Tank Harni Pond	<u>8L</u>	<u>1,205</u> 12	198	<u>15</u> 59
Gujarat	Hathab (Via Koliyak) – Sea Shore	8	12		7,933
Gujarat	Hathati Reservoir				10,186
Gujarat	Herani				569
Gujarat	Ishwaria Lake	26			1,532
Gujarat	Jafarabad Coast (Salt Works)	AF		23,933	
Gujarat	Jakhwada	G		102	
Gujarat	Jamli			83	
Gujarat	Jamnagar District: Bhanvad Taluka (4 Inland Wetlands)			1,564	
Gujarat	Jamnagar District: Dhrol Taluka (3 Inland Wetlands)			5,052	
Gujarat	Jamnagar District: Dwaraka Taluka (6 Inland and 5 Coastal Wetlands)			48,749	
Gujarat	Jamnagar District: Jamjodhpur Taluka (9 Inland Wetlands)			12,008	
Gujarat	Jamnagar District: Jamnagar Taluka (8 Inland and 6 Coastal			52,695	
Gujarat	Wetlands) Jamnagar District: Jodiya Taluka (1 Inland and 21 Coastal			14,295	
0.1	Wetlands)				
Gujarat	Jamnagar District: Kalavad Taluka (5 Inland Wetlands)			1,445	
Gujarat	Jamnagar District: Kalyanpur Taluka (8 Inland and 5 Coastal			9,139	
Gujarat	Wetlands) Jamnagar District: Khambhalia Taluka (3 Inland and 6 Coastal			28,082	
Culerat	Wetlands)			0.05	
Gujarat	Jamnagar District: Lalpur Taluka (2 Inland Wetlands)	01		335	
Gujarat	Janjaria Hanuman	8L 47	73	218	
Gujarat Gujarat	Jaspur Javala Irrigation Tank	37	129	889	833
Gujarat	Javar	51	127	007	59
Gujarat	Jesola			198	2,996
Gujarat	Jetalpur Village Tank	38		242	21.70
Gujarat	Kabutari Dam	67GH	1,929		3,265
Gujarat	Kada Dam	1	496		
				305	
Gujarat	Kadana Dam, Andhari Village			305	
	Kadana Dam, Andhari Village Kali Dam		1,206	305	4,527
Gujarat Gujarat Gujarat	Kali Dam Kaliyakuva	7GH	1,206	303	3,177
Gujarat Gujarat Gujarat Gujarat	Kali Dam Kaliyakuva Kalubhar Dam	7GH CDG	1,206		
Gujarat Gujarat Gujarat	Kali Dam Kaliyakuva		1,206	217	3,177

Capital Kankel lake 675 883 Capital Canno lake 1107 1414 109 Capital Canno lake 111 21 515 Capital StanDas Figura 111 22 515 Capital StanDas Figura 1140 23 11728 808 Capital Kanda Lam 78 32.8 11728 600 Capital Kanda Lam 6.471 1180 6.071 1180 6.071 Capital Kanda Jake (Neur Kos Kanka Villog- Villownd) 70 2.83 6.711 70 2.83 Capital Capital National Standard 71 16.5 13 70 2.83 Capital Capital National Standard 71 8.33 6.66 76 76 76 Capital Capital National Standard 71 8.34 76 76 76 76 76 76 76 76 76 76 76 76 76 76	State	Site Name	Status ¹	Threats ²	2002	2003	2004
Gapters Keaks Table 474 179 315 Gapters Kandrager Taby 67 11 35 Gapters Kandrager Ligav 67 11 36 Gapters Kandrager Ligav 67 11 36 Gapters Kandrager Ligav 781 3.56 11.83 800 Gapters Kandrager Ligav 781 3.56 11.83 800 Gapters Kandrager Ligav 6 11.83 800 2.493 Gapters Khandrager Ligav 6 11.83 800 2.493 Gapters Khandrager Ligav 11 11.83 800 2.493 Gapters Khandrager Ligav 11 11.83 800 2.493 Gapters Khandrager Ligav 11 11.85 11.71 11.85 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 <td< td=""><td></td><td></td><td></td><td>67G</td><td>363</td><td></td><td></td></td<>				67G	363		
Codparisi Kanchys inspired 6/H 91 Caparat Kanchys inspired 73 73 Caparat Kanchys inspired 78 3.56 11.576 800 Caparat Kanchys inspired 78 3.556 11.576 800 Caparat Kanchys inspired 6 11.00 6.491 Caparat Kanchys inspired 7 83 670 2.60 Caparat Konspired 7 83 670 2.60 Caparat Konspired 7 83 670 2.60 Caparat Konspired 1 1 8.38 6.38 Caparat Konspired 76 84 76 76 Caparat Konspired 761 84 76 76 84 Caparat Konspired 761 58 57 56 56 120 55 56 53 50 57 53 50 56 120 53					474	100	41,127
Colgical Karady triguion Tark 67 11 76 Colgical Karady 14.67 738 23.56 17.58 80 Colgical Karady Lak (Nart Multi Surta Village - Valovad) 738 738 64.97 Colgical Colling and Mark and Sali Paris 6 64.91 64.91 Colgical Colgical Mark and Sali Paris 6 710 738 700 Colgical Khandyal Dam 7 183 60 1.100 700 201 700 201 700 201 700 201 700 201 700 201 700 201 700 201 700 </td <td></td> <td></td> <td></td> <td>674</td> <td>4/4</td> <td>109</td> <td>515</td>				674	4/4	109	515
Capital Karado 147 Gajarat Karado Dam 287 3.25 11578 800 Gajarat Karado Dam 6.691 0.6421 6.691 0.6421 6.691 0.6421 <	Gujarat				11	26	313
Gajast Karadya Like (Nari Molas Jukunga – Valiovad) 781 783 Gajast Karadya Like (Nari Molas Jukunga – Valiovad) 783 66/91 Gajast Karl Ban 6 6.1189 Gajast Karl Ban 6 783 Gajast Karl Ban 6.82 783 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 1 82 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 1 83 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 1 836 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 1 836 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 780 84 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 780 84 Gajast Kondya Like (Nari Molas Jukunga – Valiovad) 781 60/97 Gajast Konka Takunga – Valiovad 781 60/97 84 781 Gajast Konka Takunga – Valiovad A 1,000 781 60/97 Gajast Konka Takunga – V				07			
Caparal Kerl Dian 6.491 Caparal Kashadadi Isan are SSI Parsa G 1.169 Caparal Kasabadi Isan are SSI Parsa 32 32 Gaparal Kasabadi Isana are SSI Parsa 32 32 Gaparal Kasabadi Isana are SSI Parsa 32 32 Gaparal Kabadi Isana are SSI Parsa 32 32 Gaparal Kabadi Parsa 1 16 32 32 Gaparal Kabadi Parsa 1 16 32 32 32 Gaparal Kabadi Parsa 18 516 93 32 36 32 36 32 <t< td=""><td></td><td></td><td></td><td>78F</td><td>3,356</td><td></td><td>800</td></t<>				78F	3,356		800
Colginal Kewati Dam G 11:10 Cajarat Kewati Dam 8 670 2.463 Cajarat Khambal Dam 82 221 221 Cajarat Khambal Dam 82 221 221 Cajarat Khambal Dam 82 121 12	Gujarat					730	
Capital Keyaddi Dam F TB3 6/0 2.463 Capital Khanghati D-Khanghati Dam 291 32 32 424 Capital Khanghati D-Khanghati D-Khan				-			
Conjerial Khamba Dam 87 Gojaral Khamba Dam 291 Gojaral Khamba Dam 484 Gojaral Khamba Dam 484 Gojaral Khamba Dam 68 Gojaral Khamba Dam 68 Gojaral Khodyar Dam 78 576 Gojaral Khodyar Dam 78 576 Gojaral Khodyar Dam 78 576 Gojaral Kohds (Rhamagar Dis) 58 48 Gojaral Kohds (Rhamagar Dis) 58 714 Gojaral Kohds Sandher 400 714 Gojaral Kohds Sandher 716 716 Gojaral Kohds Namba Damba 718 716 Gojaral Kohds Namba Damba 718 710 Gojaral Kohds Namba Damba 718 701 Gojaral Kohds Namba Damba 78 70 Gojaral Kohds Namba Damba 78 70 Gojaral Kohds Namba Damba </td <td></td> <td></td> <td></td> <td></td> <td>100</td> <td>(70</td> <td></td>					100	(70	
Gajarat Khara Jalw				F	183	670	
Colgarat Kharli Pond L 195 3.340 Colgarat Khodiya Dan 78 5.76 Colgarat Khodiya Dan 78 5.76 Colgarat Khodiya Dan 78 5.76 Colgarat Khodiya Dan 776 898 Colgarat Kolak (Bhuwaga) DS) Seashore 714 4.052 Colgarat Kofak Sancher 4.052 4.052 Colgarat Kofak Sancher 4.052 4.052 Colgarat Kuthon Lake A 1.000 803 3.069 Colgarat Kuthon Lake A 1.000 803 3.069 Colgarat Kuthon Mang Tak 38 9.3 1105 7.160 Colgarat Kuthon Mang Tak 38 9.3 1105 7.160 Colgarat Kuthon Mang Tak 3 2.06 421 421 421 421 421 421 421 421 421 421 421 421 421 421 4							
Cajarat Khning 1 165 122 17 Cajarat Khodyar Lako 78 576 83 Cajarat Khodyar Lako 78 576 84 Cajarat Kilke Pardi 7FG 84 774 Cajarat Korka Talav 714 60 4002 Cajarat Korka Sandher 4002 4003 3069 Cajarat Korka Sandher 2003 3069 7015 Cajarat Kubhankun Lako 7015 7016 7016 7016 7017 7016 7018 7017 7016 7018 7017 7016 7018 7017 7016 7018 7017 7016 7018 7017 7018 7017 7016 70149 70149 70							
Gujaral Khodyer Lake 78 576 Gujaral Khodyer John				L	165	132	17
Columant PR08 Columant Kille Aran Columant Kille Aran Columant Korka Talv Columant Korka Talv Columant Korka Talv Columant Korka Talv Columant Korka Talva Columant Kushanking Lake Columant Lahonka Inglation Dam K Columant Columant Lahonka Inglation Dam Columant Lahonka Inglation Dam Columant Lahonka Inglation Dam Columant Lahonka Inglation Dam Columant Lahonka Inglat	Gujarat	Khirjog		1			8,386
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GujaratNaika Dam11,1902,3939,219GujaratNakti Creek (New Kandla)23678BCDFH5,469708GujaratNani Kakrad28BDH11,91923,271GujaratNarda Tank7FGH4,5841,831GujaratNarmada Main Canal1,2661GujaratNarsanda Village Pond1,150GujaratNava Talao19,7466,022GujaratNew Port Freshwater Pond, Bhavnagar6CDH661GujaratNew Port Saltpans, Bhavnagar4,28115,7295,175GujaratNikol Bandhara6CD11,1261,465GujaratNigal Tank38L7934,027		0			344	4 501	
GujaratNakti Creek (New Kandla)23678BCDFH5,469708GujaratNani Kakrad28BDH11,91923,271GujaratNarda Tank7FGH4,5841,831GujaratNarmada Main Canal1,266GujaratNarsanda Village Pond1,150GujaratNava Talao19,7466,022GujaratNew Port Freshwater Pond, Bhavnagar6CDH661GujaratNew Port Saltpans, Bhavnagar4,28115,7295,175GujaratNikol Bandhara6CD11,1261,465GujaratNigal Tank38L7934,027		0 0		57611	11.190		
GujaratNani Kakrad28BDH11,91923,271GujaratNarda Tank7FGH4,5841,831GujaratNarmada Main Canal1,266GujaratNarsanda Village Pond1,150GujaratNava Talao19,7466,022GujaratNew Port Freshwater Pond, Bhavnagar6CDH661GujaratNew Port Saltpans, Bhavnagar4,28115,7295,175GujaratNikol Bandhara6CD11,1261,465GujaratNingal Tank38L7934,027				23678BCDFH		5,469	708
GujaratNarmada Main Canal1,266GujaratNarsanda Village Pond1,150GujaratNava Talao19,7466,022GujaratNew Port Freshwater Pond, Bhavnagar6CDH661GujaratNew Port Saltpans, Bhavnagar4,28115,7295,175GujaratNikol Bandhara6CD11,1261,465GujaratNingal Tank38L7934,027	Gujarat	Nani Kakrad				11,919	23,271
GujaratNarsanda Village Pond1,150GujaratNava Talao19,7466,022GujaratNew Port Freshwater Pond, Bhavnagar6CDH661GujaratNew Port Saltpans, Bhavnagar4,28115,7295,175GujaratNikol Bandhara6CD11,1261,465GujaratNingal Tank38L7934,027				7FGH		4,584	1,831
GujaratNava Talao19,7466,022GujaratNew Port Freshwater Pond, Bhavnagar6CDH661GujaratNew Port Saltpans, Bhavnagar4,28115,7295,175GujaratNikol Bandhara6CD11,1261,465GujaratNingal Tank38L7934,027					1,266	4 450	
Gujarat New Port Freshwater Pond, Bhavnagar 6CDH 661 Gujarat New Port Saltpans, Bhavnagar 4,281 15,729 5,175 Gujarat Nikol Bandhara 6CD 11,126 1,465 Gujarat Ningal Tank 38L 79 3 4,027							6 000
Gujarat New Port Saltpans, Bhavnagar 4,281 15,729 5,175 Gujarat Nikol Bandhara 6CD 11,126 1,465 Gujarat Ningal Tank 38L 79 3 4,027				6CDH			0,022
Gujarat Nikol Bandhara 6CD 11,126 1,465 Gujarat Ningal Tank 38L 79 3 4,027				00011	4.281		5.175
Gujarat Ningal Tank 38L 79 3 4,027				6CD	.,201		
GujaratNirma Salt Pan2,7852,881	Gujarat						4,027
	Gujarat	Nirma Salt Pan			2,785		2,881

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Gujarat	Nyari – I		26G	700	3,553	3,830
Gujarat	Odarka Pond				8,383	655
Gujarat	Onchal Lake		H	1 7 4 1	10,516	18,992
Gujarat Gujarat	Orwada Irri. Tank		67GH 7	1,741		917 205
Gujarat	Padhiyar Padra Pond		/			82
Gujarat	Palan Lake		3678FG	766	163	02
Gujarat	Panam Palla		307010	700	426	817
Gujarat	Panoli Lake			4,329	2,256	3,471
Gujarat	Pansora Village Pond			·		85
Gujarat	Par					5,060
Gujarat	Pariej				36,623	29,390
Gujarat	Patadungri Tank					3,000
Gujarat	Phodaranes Dam			(050		8
Gujarat	Phophal – I	1	(7005	6,052	7/ 107	
Gujarat	Pipalava Bandharo (Kaj)		67CDF		76,427	46
Gujarat Gujarat	Porbandar Bird Sanctuary Rahkui				39	40
Gujarat	Randharda		268		29	1,215
Gujarat	Ratania Lake		200	582	1,260	365
Gujarat	Ratanpaa Dam		67	457	1,200	603
Gujarat	Ratnal Check Dam		07	92	112	005
Gujarat	Ratnal Tank		238	166	0	306
Gujarat	Ratneshvar Tank		6GH			4,767
Gujarat	Rudarmata Dam		36GHL	4	822	16
Gujarat	Rukmavati Creek		8HL	426	407	212
Gujarat	Saiyant Tank					4,417
Gujarat	Sakariya and Bherai Pond		G			4,014
Gujarat	Saktimata Tank					120
Gujarat	Samadhiyala Bandhara		8CD			1,299
Gujarat	Sankli Forest Tank		7			710
Gujarat	Sara Reservoir					1,044
Gujarat	Sardhar Lake					145
Gujarat	Sat Hanuman Reservoir		27A			2,528
Gujarat	Sattapar Dam		2	418	0	
Gujarat	Saul Talav				96	
Gujarat	Savli Tanks		35789G	59	118	89
Gujarat	Shamna Talav		67			2,220
Gujarat	Shervo Dhandh		/			3,603
Gujarat Gujarat	Shinay Reservoir Shitala Tank		378		1,463	262
Gujarat	Shivpuri Talav		67		1,403	658
Gujarat	Sidhada Dam		07			5,552
Gujarat	Sinaj Reservoir				0	0,002
Gujarat	Sipu Dam				0	578
Gujarat	Sokhda Talav		36CDF	3,733		1,930
Gujarat	Sorathi Dam			0,100		1,825
Gujarat	Sri Tinbi				519	
Gujarat	Sudamda Ponds		368CD	10,941		
Gujarat	Sukhbhadar		6CDH			159
Gujarat	Sukhi Dam				3,399	
Gujarat	Tapar Reservoir		6GL	781	0	1,005
Gujarat	Tapi River at Surat Causeway		GKL	2,886	8,738	
Gujarat	Tapi River at Mandvi		F	567	1,584	
Gujarat	Thol Lake Bird Sanctuary		ACHL		1,390	
Gujarat	Tikar Village Pond					886
Gujarat	Timbi Tank		6FGH	2,878	2,878	6,378
Gujarat	Topansar Tank		8L	246	523	108
Gujarat	Traj Village Pond		250		24	110
Gujarat	Traj Village-Sala Pond		3FG		010	847
Gujarat Gujarat	Tranja Tundel		G		843	3,036 891
Gujarat	Tuva		67GH			1,317
Gujarat	Vada Tank		67GH		543	1,745
Gujarat	Vada Talik Vadadala		67	202	662	1,745
Gujarat	Vadadhra		07	202	002	517
Gujarat	Vadala					55
Gujarat	Vadtal				565	00
	Vaidi Dam				201	
Gujarat	valui Dalli					
Gujarat Gujarat			L	242	84	107
Gujarat Gujarat Gujarat	Vala Khavaj Jheel Vanaj Dam, Vijaynagar		L 26CDHK	242		107

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Gujarat	Vastuna Village Pond					335
Gujarat	Vatrak Reservoir		6CDFG	599	2,060	
Gujarat	Vav				677	
Gujarat	Veri Dam		26		316	7,308
Gujarat	Victor (Bherai) Salt Pans and Coastal Area		FG		43,320	5,851
Gujarat Gujarat	Victor Pond and Sakriya Hanuman Pond – Bherai Vijaysagar		8F 6GL	295	8,847 294	
Gujarat	Vijaysagai		7	295	294	4,340
Gujarat	Virania		1		184	4,040
Gujarat	Visavada Reservoir					34
Gujarat	Wadwana Reservoir		3567FH	9,671	25,868	
Gujarat	Zanzaria – Fulsaria Stream		9			89
Gujarat	Zazam Dam					4,484
Haryana	Basai Wetlands				4,488	
Haryana	Bhindavas Lake Bird Sanctuary				2,195	
Haryana	Sheikhapura		36CDFH		181	208
Haryana	Sultanpur Bird Sanctuary			F1 700	1,035	71 70E
Himachal Pradesh Jharkhand	Pong Dam Bird Sanctuary Kanke Reservoir	R, I	6789CDFHKL	51,720	73,892 19,991	71,705
Jharkhand	Roka Lake		L 68CDFH		22,300	
Karnataka	Abbalagere Tank		68		22,300	
Karnataka	Abbalagere Talik Anandapuram Pond		235678		212	
Karnataka	Aragoppa Pond		68		88	
Karnataka	Bannur Heggere		00		00	5,085
Karnataka	Byramangala Reservoir					15,664
Karnataka	Cauvery River: Muthathi – Bheemeshwari Fishing Camp		7L			140
Karnataka	Chatradahally Pond					125
Karnataka	Cheelur Pond					966
Karnataka	Chennamumbapura/Abbalagere			138		
Karnataka	Dadada Halli Tank					3,022
Karnataka	Dasarahalli Tank					2
Karnataka	Dodda Tumkur Tank					3
Karnataka	Donikere					269
Karnataka	Gejjagalri Kere				7,309	
Karnataka	Gudavi Bird Sanctuary				849	884
Karnataka	Hadinarli				2,709	500
Karnataka	Hebbal Tank					583
Karnataka	Hesergatta Tank				20	18
Karnataka Karnataka	Hirekere Hosabale Pond				20	182
Karnataka	Jakkur Tank					102
Karnataka	Jangina Koppa Pond				124	170
Karnataka	Kagodu Pond				124	34
Karnataka	Kallambi Tank				143	51
Karnataka	Kallur Tank		236G			11,048
Karnataka	Karigala Tank					17,089
Karnataka	Keladi Pond					268
Karnataka	Kelgeri Tank				1,016	
Karnataka	Kolagunasi Pond				121	
Karnataka	Krishna River – Karnataka		467FG		3,028	2,196
Karnataka	Krishnaraja Sagar Reservoir					21,225
Karnataka	Kunthur Tank					11,475 3,225
Karnataka	Lingambudhi Tank Mandakali Tank	1			07/	3,225
Karnataka	Mandakalli Tank Manalanyi Tank				876	
Karnataka	Manslapur Tank Maving Koro		E.		1,721	
Karnataka Karnataka	Mavina Kere Murugamatta Pond		56		1,332 159	216
Karnataka Karnataka	Murugamatta Pond Nagavara Tank		38		109	1,072
Karnataka	Nantangud Kere		78CDFG		64	1,072
Karnataka	Narasambudhi Tank		36		τŪ	809
Karnataka	Navale	'	36		36	007
Karnataka	Nelligudda Tank		67			166
Karnataka	Nuggikeri Tank		4G		207	
Karnataka	Purale		236785		214	
Karnataka	Puttenahalli Tank					153
Karnataka	Rani Kere, Anandapuram		235678		368	
Karnataka	Soraba Pond		235678		204	307
Karnataka	Tippagondana Halli		G			3,350
Karnataka	Ullurukere					294
Varmatalia						4.40
Karnataka	Yedehalli Pond					143
Karnataka Karnataka Kerala	Yedehalli Pond Yelehanka Lake Akkulam Lake		I 258CDIL	607	725	143 28 1,164

Numbers and distribution of waterbirds and wetlands in the Asia-Pacific region. Results of the Asian Waterbird Census: 2002-2004

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Kerala	Ambalamedu Lake		247CHG	11	17	11
Kerala	Aruvikkara Ashtamudi Lake: Chittumala Marsh and Paddy Fields		<u> </u>	232	681	1 10/
Kerala Kerala	Ashtamudi Lake: East Kallada Paddy Field and Chittu Marsh		3/HIK	606	001	1,186
Kerala	Ashtamudi Lake: Kandachira Marsh	pR	FGI	1,864		
Kerala	Ashtamudi Lake: Karali Marsh	pR	248EFG	2,686		1,853
Kerala	Ashtamudi Lake: Kaudachira		247ACDG		1,481	
Kerala	Ashtamudi Lake: Kodimatha Marshes		28CDFI	160	182	246
Kerala	Azhinhilum		4679FI		510	680
Kerala	Charanathukavu – Aazhankal Marsh		4FI	147	050	000
Kerala Kerala	Kadalundy Estuary Kalpalli		23IL 678G		959 239	928
Kerala	Kattampally	1	EGI		20,087	
Kerala	Kayal Varampinakom	1	8F	1,500	20,007	
Kerala	Kole Combined Wetlands		4789CDEFHI	10,299	77,439	101,359
Kerala	Kottappuzha Estuary			2,513		
Kerala	Pallippuram Paddyfields		6CDI	396		
Kerala	Perunna Paddy Fields		671	978	144	97
Kerala	Poothapandy		FI	376		
Kerala Kerala	Punchakari Purathur (Bharatapuza) Estuary		46789EFHIL	2,746		11,272
Kerala	Trikkur – Kaloor Flooded Area		40709EFHIL		165	11,272
Kerala	Vadakke Chira (Tank)				2,436	
Kerala	Velayani Lake		26CDIL		478	
Kerala	Veli Lake		IL	91		
Kerala	Vembanad: Aakkanady Back Waters			842	281	
Kerala	Vembanad: Aarayiram Kayal			255	389	
Kerala	Vembanad: Arayiram Lake Paddy Field		CF			260
Kerala	Vembanad: Erupathynalayiram Kayal		CH	897	228	1 001
Kerala Kerala	Vembanad: Kaippuzha Muttu Vembanad: Kumarakom Paddyfields		6CF 6FI	2,984	4,463	1,981 614
Kerala	Vembanad: Kumarakom Tourist Complex		49FIL	353	97	139
Kerala	Vembanad: Narakathara		CDFGI	1,111	816	1,131
Kerala	Vembanad: Nedumudi		26CDFGI		768	624
Kerala	Vembanad: Pallathuruthy		267CDHI	116	425	603
Kerala	Vembanad: Pathiramanal		9FL	2,074	304	219
Kerala	Vembanad: Thannermukkam Bundh		ACDEFHK	428	848	7,054
Kerala Kerala	Vembanad: Thollairam Kayal Vembanad: Vembanad Lake	R, I	67CDFGI 2BCDEFHIKL	4,307	10,922	7,638 4,486
Madhya Pradesh	Bargi Reservoir	Π, Ι	ZDCDLITIIKL	4,307	78	4,400
Madhya Pradesh	Bhundakona Tank		6	350	70	
Madhya Pradesh	Chambal River: (National Chambal Sanctuary)				836	
Madhya Pradesh	Halali Dam		467FH		350	
Madhya Pradesh	Kanha National Park: Kisli					34
Madhya Pradesh	Kanha National Park: Kopadabri Naktighati					16
Madhya Pradesh	Kolar Dam Kotawal Dam		67HK		241	77
Madhya Pradesh Madhya Pradesh	Kumadih					76 71
Madhya Pradesh	Kwari River					51
Madhya Pradesh	Mirghan Pond					82
Madhya Pradesh	Narna					78
Madhya Pradesh	Pench National Park					299
Madhya Pradesh	Pindrai Tank				67	
Madhya Pradesh	Pipalwala Talab – Bithli					40
Madhya Pradesh Madhya Pradesh	Sarekha – Bada Talab Sarekha Pond		1	49		99
Madhya Pradesh	Sarekha – Chhota Talab		1	47		48
Madhya Pradesh	Supatal – Garha				58	UT
Madhya Pradesh	Upper Lake, Bhopal City		4678FHK		708	
Maharashtra	Adegaon Lake		67F		276	
Maharashtra	Aitwade Duban				180	
Maharashtra	Amanala Tank		7CDG	4 / 7 -	303	
Maharashtra Maharashtra	Ambazari Reservoir		7F	1,671	4,951	
Maharashtra Maharashtra	Anjur – Alimgadh Ankhoda Reservoir		6G		559 263	
Maharashtra	Alkhoda Reservoli Ashband		ACDFH		3,258	15,230
Maharashtra	Asolamendha Tank		7DFHL		3,230	10,200
Maharashtra	Basalapur Tank		3		205	
Maharashtra	Bhatala Tank		7CDG		180	
Maharashtra	Bims Paradise, Thane Creek		2489GI		495	
Maharashtra	Bodalkasa Lake Bodare Talav		Н		152	
Maharashtra					103	

State	Site Name	Status ¹ Threats ²	2002	2003	2004
Maharashtra	Bopobodi Talav	2FI		65	96
Maharashtra	Borgaon Manjn Tank	78FHL	2,545	5,621	
Maharashtra	Bpcl Road, Wadala	489BJ		231	
Maharashtra	Ceirola (Heti) Lake	26FG		366	420
Maharashtra	Chandai Lake	CDFH	480	4.1/4	1 5 40
Maharashtra	Chargaon Lake	7CDFH	418	4,164	1,548
Maharashtra	Chiatri Lake	37F		2,276	1 000
Maharashtra	Chichtola Reservoir Dahegaon Reservoir	47CG 3CG	1 044	526 878	1,000
Maharashtra Maharashtra	Danegaon Reservoir Dapoli Sea Shore	1	1,246	1,230	
Maharashtra	Dastapur	37		244	
Maharashtra	Dhangaon	57		244	27
Maharashtra	Dodmazari Talav	27G		30	125
Maharashtra	Gangapur Dam	I 7CG		8,162	125
Maharashtra	Ghatana Lake	7GF		581	
Maharashtra	Ghodpeth Tank	7CDG		142	
Maharashtra	Godara Talav	2FG			148
Maharashtra	Gorewada Reservoir			1,495	
Maharashtra	Gudhari Lake	G		77	244
Maharashtra	Harney Bunder	Н		153	
Maharashtra	Hipparga Tank	267FH		27,403	
Maharashtra	Indala Reservoir	37H		145	
Maharashtra	Irai Dam		3,664		
Maharashtra	Itiadoh		133		
Maharashtra	Januna Tank	7BCDFHL	641		
Maharashtra	Jawahar Nagar Ordnance Factory Tank			166	
Maharashtra	Junona Lake	467CDFHL		901	1,001
Maharashtra	Kangaon – Nangaon	61			11,327
Maharashtra	Kathalabodi Lake	67F		44	
Maharashtra	Kavadi	78AI		443	649
Maharashtra	Kekatpur Tank	367H		206	
Maharashtra	Khambala	G		133	
Maharashtra	Koknagadh and Chandori Tanks	347FG		318	287
Maharashtra	Koradi Lake			731	
Maharashtra	Krishna Bridge to Goware	246789BCDF			842
Maharashtra	Krishna River Maharashtra	28CDG		833	955
Maharashtra	Labhansarad Tank	7CDHF		876	
Maharashtra	Lagam Tank	7		744	00
Maharashtra	Lawari/Umari Lake	27FG 7FG		41 175	90
Maharashtra	Magali Tank Mahuli Lake	27FG			150
Maharashtra Maharashtra	Malijunga Talav	7DEFG		56	150 252
Maharashtra	Mana-Erai River	89ACDEH		120	232
Maharashtra	Mangli Reservoir	7G	207	120	
Maharashtra	Mangin Reservoir	67D	207	265	
Maharashtra	Mansar Tank	010		205	52
Maharashtra	Maregaon Reservoir	47CDFH		1,454	52
Maharashtra	Morgaon Talav	7G		267	216
Maharashtra	Mukutban	237	1,092	207	210
Maharashtra	Nahvi Talav	246789CDFG	11072		149
Maharashtra	Nandur Madhemeshwar Wildlife Santuary	I 2367ACDEH	8,211	15,378	9,403
Maharashtra	Navegaon Lake	HL	3,777		2,034
Maharashtra	Nerli Talav	246789CDFG	·		290
Maharashtra	Nilona Dam	4FG	1,187	2,246	
Maharashtra	Pakdiguddam Tank	7FH		1,027	
Maharashtra	Panchala Lake	7HI		49	
Maharashtra	Parsodi Talav	2FG		96	319
Maharashtra	Pashan Lake			207	
Maharashtra	Pawanpar Reservoir	47FH		5,977	
Maharashtra	Pedgaon (Bhima River)	GI			4,827
Maharashtra	Pimpalgaon			197	
Maharashtra	Pipriya Lake, Pench Tiger Project	7L		393	
Maharashtra	Pohara	37HF		94	
Maharashtra	Powai Lake	23AG		306	379
Maharashtra	Pritisangam Ghat To Krishna Bridge	246789BCDF			516
Maharashtra	Rajura Reservoir	37FGH		1,031	
Maharashtra	Rantalai Tamk	3		307	
Maharashtra		100		339	131
	Rawanwadi	2FG		222	
Maharashtra	Renuka – Khodshi Dam from Canal Bridge	246789BCDF			431
Maharashtra Maharashtra	Renuka – Khodshi Dam from Canal Bridge Risala Tank	246789BCDF H		295	
Maharashtra	Renuka – Khodshi Dam from Canal Bridge	246789BCDF			

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State	Site Name	Status ¹	Threats ²	2002	2003	2004
Maharashtra	Saraswati Reservoir				145	
Maharashtra	Satnur Lake			1,092		
Maharashtra	Sawardi		8G		10	
Maharashtra	Sayaki Lake		7L		606	
Maharashtra	Sewree Jetty		489ABG		28,623	
Maharashtra	Shewati Reservoir		7G		161	0.245
Maharashtra Maharashtra	Shimpore – Khed Shingaldoah Lake (Uttarwadhona)		G 7FG		6,946	9,345
Maharashtra	Shiregaon – Bandh		67FG		2,281	1,999
Maharashtra	Silli-Ambadi Tank		0/10		155	1,777
Maharashtra	Sitepar Talav Lake		2FI		100	166
Maharashtra	Siwani Bandh Lake		7CDG		1,454	100
Maharashtra	Sondad Talav		39GF		566	597
Maharashtra	Sonegaon Reservoir		7FG		118	077
Maharashtra	Sunderwata		3			50
Maharashtra	Surlighat Talav		467CDFG			5
Maharashtra	Suryaganga Lake		7FH		296	
Maharashtra	Talegaon Lake		48AHL			99
Maharashtra	Tansa (Belnala) Wildlife Sanctuary		7GK		494	
Maharashtra	Telangkhedi		237GL		1,081	
Maharashtra	Thane–Ulhas Estuary		29A		5,192	
Maharashtra	Thane East Salt Pan		0000		520	
Maharashtra	Toranmal Reserve Forest		8CDG		/ ^ 2	129
Maharashtra	Upper Wardha Project		H		603	10
Maharashtra	Vadgaon – Haveli		467BCDFG			42
Maharashtra	Vena Vicepur Tenk		7F		5,965	E 000
Maharashtra	Visapur Tank		26 378H		430	5,002
Maharashtra Maharashtra	Wadali (Main) Lake Wadgaon		7HL		4,138	
Maharashtra	Wadgaon Wakeshwar		7GL		650	
Maharashtra	Zarpada Lake		7G		1,096	500
Manipur	Ithai Wapokpi – Nongma Ikhong		2346HK		1,070	5,861
Manipur	Logtak Lake	R, I	2010111			16,443
Orissa	Ambagada Pond		246H	179	291	
Orissa	Ansupa Lake		46F	23	219	
Orissa	Bada (Bandha) Tank Girisola		5C	274	249	
Orissa	Badabandha S. Tikara Pada		267		226	
Orissa	Badjoda Dam		KL		670	
Orissa	Baghlati Reservoir				75	
Orissa	Baghua Reservoir			578		
Orissa	Balakati Jora (Marh)		FG		1,067	
Orissa	Balimela Reservoir		FG		1,098	
Orissa	Bankbal Dam		H		1,937	
Orissa	Belama Tank Belana Gadia		25 23467		109 289	
Orissa	Belapathra Ghai		23407		289	
Orissa Orissa	Bengei Bandha		267DG	59	34	
Orissa	Bhetanai Haja		20700	461	217	
Orissa	Bhismagir – Bada Tank		237	101	229	
Orissa	Bhitarkanika Mangrove	R, I	207		280,463	
Orissa	Biswa Ghai Kharinipada		2357		256	
Orissa	Chadakmaraa – Parsurampur		235G		44	
Orissa	Chhamundia Reservoir		25FG		190	
Orissa	Chilika Lake: Combined	R, I	235FH	1,349,587	482,366	773,649
Orissa	Daha Dam			4,034	199	
Orissa	Denua				6,978	
Orissa	Derasa Reservoir		47HL	450	240	
Orissa	Derjang		5FH		2,315	
Orissa	Dhulia Nali Dam – Manpur		25FH	0.001	1,086	
Orissa	Ekamrakanan Tank		05	3,894	001	
Orissa	Erra Tank Covela Danka an Mahanadi		25	157	224	
Orissa	Gayala Banka on Mahanadi		24679CD	2,661	1,021	
Orissa Orissa	Ghodahaddam Gopala Sagar (Patrapur)		579		<u>2,021</u> 177	_
Orissa	Hadgadh		517		523	
UIIJJU	Haldia Dam		FHL	500	1,420	
			111	500		
Orissa					894	
Orissa Orissa	Hansapada Bada Pokhari		1	75	894	
Orissa Orissa Orissa	Hansapada Bada Pokhari Hansua Irrigation Tank		1	75 67.274	894	
Orissa Orissa Orissa Orissa	Hansapada Bada Pokhari Hansua Irrigation Tank Harabhangi		579	75 67,274		
Orissa Orissa Orissa	Hansapada Bada Pokhari Hansua Irrigation Tank		579 25F		517 24,188	

State	Site Name	Status ¹ Threats ²	2002	2003	2004
Orissa	Huma Salt Fields		381	2000	2001
Orissa	Interim Test Range – Chandipur			3,315	
Orissa	Jalamara Tank		81	74	
Orissa	Jambhina Irrigation Tank	6G	22		
Orissa	Jharia Nala Reservoir	247FH	480		
Orissa	Jhumuka Reservoir	47FGL		240	
Orissa	Kalingodola (on Bahuda River)	CDL	157	547	
Orissa Orissa	Kalinji Tank Kalo Reservoir	467FGH	<u>157</u> 1,520	155 1,805	
Orissa	Kanarkhunti Dam	407FGH 47G	4,415	1,805	
Orissa	Kanjari Reservoir		89	212	
Orissa	Kelakata Reservoir	25FH	07	856	
Orissa	Khajuritank – S. Rautapur	2		113	
Orissa	Khoiro Tank	27F		54	
Orissa	Krishna Sagara Donuru		451		
Orissa	Krusnasagar Phasi Guda	236		217	
Orissa	Kuanria Dam	6CFHL		716	
Orissa	Kumuti Tank		398	111	
Orissa	Kuspangi Pato	· · · · · · · · · · · · · · · · · · ·		1,092	
Orissa	Machhakund Reservoir	6		391	
Orissa	Mahadei Pokhari		411	173	
Orissa	Mahadei Sagar Mandira Reservoir		411	160	1 // 2
Orissa Orissa	Mandira Reservoir Meghaiholi Sagara	27		157	1,442
Orissa	Mahanadi River: Trisulia to Baidyeswar	21	1,146	107	
Orissa	Molia Ghai Dam		555		
Orissa	Mukundadev Sagar	5	333	223	
Orissa	Mukutmonipur	0	23,522	220	
Orissa	Nagapur Tank	G	20,022	1,131	
Orissa	Naraj–Mundali	2	1,393	2,678	
Orissa	Narayan Sagar	5		109	
Orissa	Nedam Dam	1		17	
Orissa	Ongaito Tank		6,749	872	
Orissa	Padma Pato Iswarapur			191	
Orissa	Palaba Bandha	378F		260	
Orissa	Pangidi Haja		628	238	
Orissa	Parabadi Dhauli	4H	14		
Orissa	Pathuri Reservoir		24	230	
Orissa	Pampalo Daga Tank	G	14/	22,035	
Orissa	Raga Tank		<u>146</u> 494	384	
Orissa Orissa	Raghunath Sagar Rakhyasa Tank	27	494	<u>932</u> 241	
Orissa	Ralaba Tank		412	241	
Orissa	Ramasagar and Seethasagar Complex	3761	807	200	
Orissa	Remala	2		61	
Orissa	Rengali	—	28,501	2,814	
Orissa	Rissia Reservoir	47H	323	841	
Orissa	Rusikulya Dam		266	458	
Orissa	Saipal	25	786	1,279	
Orissa	Salia Reservoir		244		
Orissa	Sana Patta	23FH		474	
Orissa	Sapua Irri		61		
Orissa	Sisilo	1	1,443	362	
Orissa	Suleipat Dam	G	F 00F	1,572	
Orissa	Sundar Dam	25	5,095	2,330	
Orissa	Suvarnapur–Ansupa Tampara Backwaters		721	503	
Orissa Orissa	Thumka Reservoir	47FGL	121	240	
Puducherry	Bahour Tank	I 7FH	6,678	2,806	2,678
Puducherry	Ousteri Tank	I 3679AFL	7,220	4,817	2,407
Punjab	Harike Wetland	R, I 3	5,391	.,	2,.07
Punjab	Nangal Head Works		-,	3,388	
Punjab	Ropar Wetland	R, I	185		
Rajasthan	Abheda	37F	1,653		
Rajasthan	Alniya Dam	I 679CDFH	2,227		714
Rajasthan	Amanishah Nullah Ambabari	234789FG		1,618	1,096
Rajasthan	Bardha Dam	I 26DF	6,221		
Rajasthan	Chandalai	6Н		566	189
Rajasthan	Golyahedi Village Pond	26CD	577	230	499
Rajasthan	Guda–Bish (Vishnion) Dam	7	1,243	0.110	4.400
Rajasthan	Jalmahal Lake	4689HIL	1.4/0	2,410	1,420
Rajasthan	Kayalana and Barli Pond	8	1,469	1,149	

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Rajasthan	Kishore Sagar		3589CG		3,122	294
Rajasthan	KTPS Ash Pond		239	683		
Rajasthan	Pathik Sagar		67CG		399	
Rajasthan	Rajpura Village Pond		236CD	635	327	577
Rajasthan	Ram Sagar Lake (Hindoli)		267		76	488
Rajasthan	Right Main Canal		2589CDFG	0		5,129
Rajasthan Rajasthan	Sambhar Lake Sardarsamand	R, I	CDH	0 2,337	1,011	
Rajasthan	Ummedganj		346789F	2,337	435	
Rajasthan	Vardha Dam		6CDFH	2,401	400	13,697
Tamil Nadu	Andi Odai Tank		7FG		5,760	5,680
Tamil Nadu	Chembarambakkam Tank		29FJ	5,244	-1	-,
Tamil Nadu	Cheyyur Lagoon		FH		1,268	8,296
Tamil Nadu	Kaliveli Tank	pl	367FG	15,205	3,476	237
Tamil Nadu	Karavetty Tank	I	7FG		25,778	1,622
Tamil Nadu	Koonthankulam Bird Sanctuary		L		1,333	
Tamil Nadu	Kottaikulam (Periyakulam)		67		129	
Tamil Nadu	Man Odai Tank		7FG		1,677	2,033
Tamil Nadu	Singenallum		28HL			402
Tamil Nadu	Suchindram Tank		236789		946	1,442
Tamil Nadu	Sulur Tank		478GHIL	0.000		131
Tamil Nadu	Tenneri Tanks		69A	3,220		2.002
Tamil Nadu Tamil Nadu	Theroor Wetland Complex				470	3,003
Tamil Nadu Tamil Nadu	Ukkadam Tank Uppalam		4789FGIK		673	217 296
Tamil Nadu	Vembanoor Wetland Complex		4/09FGIN			604
Uttar Pradesh	Amakhera Tank		69H		293	004
Uttar Pradesh	Ashpan		0711	14,766	275	
Uttar Pradesh	Baadi Taal			14,700		4,159
Uttar Pradesh	Chaltuwa Wetland		3CDG		633	1,107
Uttar Pradesh	Ghaziabad		24678AFGI		1,030	
Uttar Pradesh	Katernia Ghat Sanctuary	I	47CD		,	7,160
Uttar Pradesh	Kishanpur Wildlife Sanctuary		37G		1,544	
Uttar Pradesh	Nachan Tal		37CDG		471	
Uttar Pradesh	National Chambal Wildlife Sanctuary	I		53,115	2,835	4
Uttar Pradesh	Nawabganj Bird Sanctuary		7L		128	
Uttar Pradesh	Pili Dam			18,325		
Uttar Pradesh	Sur Sarovar Bird Sanctuary				15,581	
Uttar Pradesh	Tiger Haven		G		200	
Uttar Pradesh	Yamuna R.: Agra		7AH	2 (0 2	154	
Uttar Pradesh/ Uttarakhand	Nanakmata Reservoir			3,603		
Uttarakhand	Asan Barrage	1	2378	2,815	5,756	7,027
Uttarakhand	Baur Reservoir	•	6F	4,368	4,410	1,805
Uttarakhand	Bheemgoda Barrage		01	1,000	798	1,000
Uttarakhand	Dehra Dun		23		3,995	
Uttarakhand	Gang Lehari				148	
Uttarakhand	Ganges between Rishikesh and Haridwar		479GK			1,024
Uttarakhand	Gangetic Plains between Nildhara and Shyampur Village				698	
Uttarakhand	Gol Tapper				197	
Uttarakhand	Haripura Reservoir		27FG	26,844	763	1,559
Uttarakhand	Lal Tappar				21	
Uttarakhand	Ramganga River			823		
Uttarakhand	Tumeria Dam		6F	3,787	1,495	3,137
West Bengal	Adina Deer Park		36CDHL	816	587	
West Bengal	Ahiron, Murshidabad			2,298	5,961	
West Bengal	Alipore Zoological Gardens		2254040051	630 2,150	1,893	
West Bengal West Bengal	Ash Dykes of Farakka Thermal Power Project Baghar Beel		23569ACDFI 67CDFHI	2,150	4,174	
West Bengal	Bahara Muri		G	588	4,1/4	
West Bengal	Ballavpur Wildlife Sanctuary		3	5,081	7,558	
West Bengal	Bara Beel		36CDFH	374	307	
West Bengal	Bara Sagar Dighi		HIL	4,134	3,803	
West Bengal	Baratali Beel		6CDFHI	700	485	
West Bengal	Bharamori			466		
West Bengal	Chander More		367CDFGI	2,790	3,550	
West Bengal	Chittaranjan Bara Dam		27FHKL		2,094	
West Bengal	Dabur Chaar		FHL	624	286	
West Bengal	Domohani		3467CDFH	2,601	3,725	
West Bengal	Durgapur Barrage		58AFH	690		
West Bengal	Farakka Barrage (Ganges River)		268CDFHK	44,041	64,656	
West Bengal	Fulbari (Mahananda, Siliguri) Barrage		245678ACDFHL	1,080	1,439	1,182

State	Site Name	Status ¹ Threats ²	2002	2003	2004
West Bengal	Gajaldoba Teesta Barrage	267CDGL	2,517	7,356	
West Bengal	Gopal Pukar	46CHI	492	8	
West Bengal	Gosadanga Beel	278CD		176	
West Bengal	It Bhata Ihil	7CH		190	
West Bengal	Janata Eet Bhata	G			339
West Bengal	Jore Dhighi			1,790	
West Bengal	Kaljani Bill	2CDG	138	309	
West Bengal	Karnail Singh Park	Н		3,841	
West Bengal	Kumari Dam	6G	248	425	
West Bengal	Mahan Beel	3567CDF	210	469	
West Bengal	Mara Toresha River	2CD	364		
West Bengal	Mechi River	47CDFGI	1,042	933	
West Bengal	Nalban Fishery	Н	656		
West Bengal	Nandikhola R.: Sevoke	7GKL	736	185	
West Bengal	Narar Thali Bil	2	574		
West Bengal	Naya Bandh Bill	I 356CDFH	1,675	9,386	
West Bengal	Naya Chara (Kharubhaj) Beel	6CDG	1,453	1,838	1,644
West Bengal	Panchet Dam	89AHL	2,497	4,297	
West Bengal	Purbasthali	26G			5,494
West Bengal	Rabindra Sarobar		114		
West Bengal	Raiganj (Kulik) Bird Sanctuary	I 267CDGL	1,087	2,194	
West Bengal	Rasar Char (Purbasthali)	7FG	6,931	5,456	
West Bengal	Rasik Bill	37CHL	5,439	4,202	1,492
West Bengal	Rydak River	29CDGK	185	527	462
West Bengal	Saat Beki Beel	6CDFG			603
West Bengal	Sagar Dighi			2,000	
West Bengal	Saheb Bandh	38ABG	6,989	7,208	
West Bengal	Sankosh Bill	2CDG	463		
West Bengal	Sankosh River	9CDFG	180		
West Bengal	Santragachi Jheel	389AGL	7,969		6,353
West Bengal	Satbeki Bill	23678CDHFGL	779	1,893	
West Bengal	Tara Dam, Purulia		296	428	
West Bengal	Tilpara Barrage	G	1,964	3,584	
West Bengal	Vikon Beel	467CDFHI	419	542	

Status¹: R – Ramsar site, pR – part of a Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), W – UNESCO World Heritage Site.

Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 12: Waterbird species counts reported during the AWC in India, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		14,878	12,655	11,006
Red-necked Grebe	Podiceps grisegena		3	1	12
Great Crested Grebe	Podiceps cristatus		445	675	1,253
Black-necked Grebe	Podiceps nigricollis		45	11	3
unidentified grebes	Podicipedidae spp.		54	1,563	682
Great White Pelican	Pelecanus onocrotalus		2,200	5,042	8,461
Spot-billed Pelican	Pelecanus philippensis	VU	1,071	3,381	480
Dalmatian Pelican	Pelecanus crispus	VU	141	125	570
unidentified pelicans	Pelecanidae spp.		20	766	4
Great Cormorant	Phalacrocorax carbo		9,469	8,351	9,546
Indian Cormorant	Phalacrocorax fuscicollis		3,381	2,792	6,667
Little Cormorant	Phalacrocorax niger		52,555	36,839	26,891
unidentified cormorants	Phalacrocoracidae spp.		1,909	1,816	676
Oriental Darter	Anhinga melanogaster	NT	463	1,015	538
Grey Heron	Ardea cinerea		5,663	4,155	2,858
Eastern White Egret	Ardea modesta		1,599	7,931	4,404
Intermediate Egret	Ardea intermedia		7,088	11,240	5,965
Goliath Heron	Ardea goliath		1	3	4
Purple Heron	Ardea purpurea		3,279	1,204	1,340
Cattle Egret	Ardea (Bubulcus) ibis		66,562	28,278	27,525
Green-backed Heron	Butorides striatus		156	634	15
Indian Pond Heron	Ardeola grayii		31,988	18,179	12,242
Little Egret	Egretta garzetta		41,715	18,942	17,336
Western Reef Egret	Egretta gularis		288	549	254

English Name	Scientific Name	GTS ¹	2002	2003	2004
unidentified egrets	Egretta/Bubulcus spp.		573	2,551	
Black-crowned Night-heron	Nycticorax nycticorax		4,129	4,121	731
Malayan Night-heron	Gorsachius melanolophus		26	20	
Eurasian Bittern Yellow Bittern	Botaurus stellaris Ixobrychus sinensis		63	<u>20</u> 164	4 26
Cinnamon Bittern	Ixobrychus sinensis		46	94	100
Black Bittern	Ixobrychus flavicollis		13	134	32
unidentified bitterns	Ixobrychus spp.		15	35	41
unidentified Ardeidae	Ardeidae spp.		3,101	6,027	13,261
Painted Stork	Mycteria leucocephala	NT	4,513	7,933	5,253
Asian Openbill	Anastomus oscitans		58,509	18,619	11,503
Black Stork	Ciconia nigra		109	92	54
Woolly-necked Stork	Ciconia episcopus		332	513	407
Eurasian White Stork	Ciconia ciconia		133	69	75
Black-necked Stork	Ephippiorhynchus asiaticus	NT	18	49	17
Greater Adjutant	Leptoptilos dubius Leptoptilos javanicus	EN VU	56	15 205	<u>9</u> 149
Lesser Adjutant unidentified storks	Ciconiidae spp.	VU	4	205	149
Black-headed lbis	Threskiornis melanocephalus	NT	2,714	4,734	3,695
Indian Black Ibis	Pseudibis papillosa	INT	3,146	2,409	2,757
Glossy Ibis	Plegadis falcinellus		4,723	4,448	7,218
unidentified ibises	Threskiornithidae spp.		9,800	5	7,210
Eurasian Spoonbill	Platalea leucorodia		2,799	4,063	6,059
Greater Flamingo	Phoenicopterus ruber roseus		8,979	34,244	12,556
Lesser Flamingo	Phoeniconaias minor	NT	13,019	54,333	71,690
unidentified flamingos	Phoenicopteridae spp.		6,224	253	
Fulvous Whistling Duck	Dendrocygna bicolor		9,882	8,400	3,317
Lesser Whistling Duck	Dendrocygna javanica		142,628	110,229	64,195
Greylag Goose	Anser anser		2,889	7,919	2,710
Bar-headed Goose	Anser indicus		10,918	19,406	19,273
unidentified grey geese	Anser spp.		979		
Ruddy Shelduck	Tadorna ferruginea		27,676	16,188	10,383
Common Shelduck	Tadorna tadorna		204	303	406
White-winged Duck	Cairina scutulata	EN	0.540	051	2
Comb Duck	Sarkidiornis melanotos		2,540	851	4,014
Cotton Pygmy Goose	Nettapus coromandelianus		55,026	28,942 92,960	<u>19,554</u> 98,156
Eurasian Wigeon Falcated Duck	Anas penelope Anas falcata	NT	<u>116,302</u> 60	300	98,150
Gadwall	Anas strepera	INT	195,592	111,496	174,618
Common Teal	Anas sirepena Anas crecca		46,988	54,556	46,999
Mallard	Anas platyrhynchos		2,211	3,854	1,602
Spot-billed Duck	Anas poecilorhyncha		15,239	22,569	14,160
Northern Pintail	Anas acuta		396,748	320,591	359,560
Garganey	Anas querquedula		45,911	92,417	57,649
Northern Shoveler	Anas clypeata		223,213	139,555	119,831
Red-crested Pochard	Netta rufina		43,280	49,126	18,478
Common Pochard	Aythya ferina		114,108	59,229	47,226
Baer's Pochard	Aythya baeri	VU	10	153	18
Ferruginous Duck	Aythya nyroca	NT	964	1,641	3,270
Tufted Duck	Aythya fuligula		90,459	70,000	13,245
Goosander	Mergus merganser		85	40	56
unidentified ducks	Anatinae spp.		220,531	99,216	126,011
Demoiselle Crane	Anthropoides virgo	VU	9,385	121,772	61,528
Sarus Crane Common Crane	Grus antigone Grus grus	VU	<u> </u>	<u>275</u> 51,811	<u>217</u> 9,984
unidentified cranes	Gruidae spp.		1,000	32,118	2
Slaty-legged Crake	Rallina eurizinoides		1,000	JZ,110	۷
Slaty-breasted Rail	Gallirallus striatus		1,000	11	35
Water Rail	Rallus aquaticus		83	484	22
Brown Crake	Amaurornis akool		59	18	19
White-breasted Waterhen	Amaurornis phoenicurus		1,530	2,797	2,280
Baillon's Crake	Porzana pusilla		241	16	4
Ruddy-breasted Crake	Porzana fusca		21	73	29
Watercock	Gallicrex cinerea		353	397	73
Purple Swamphen	Porphyrio porphyrio		41,850	15,500	11,355
Common Moorhen	Gallinula chloropus		37,459	7,496	2,651
Common Coot	Fulica atra		216,428	192,193	245,307
unidentified rails	Rallidae spp.		2	3	
Pheasant-tailed Jacana	Hydrophasianus chirurgus		29,950	4,293	4,205
Bronze-winged Jacana	Metopidius indicus		26,351	5,332	2,829
Greater Painted Snipe	Rostratula benghalensis		96	388	64
Crab Plover	Dromas ardeola		2	6,923	

Results: South Asia

English Name	Scientific Name	GTS ¹	2002	2003	2004
Eurasian Oystercatcher	Haematopus ostralegus		12	336	26
Ibisbill	Ibidorhyncha struthersii		00.000	00 517	8
Black-winged Stilt Pied Avocet	Himantopus himantopus		23,238	39,517 12,903	30,675
Great Thick-knee	Recurvirostra avosetta Burhinus (Esacus) recurvirostris		460	236	4,695 173
Collared Pratincole	Glareola pratincola		400	354	175
Oriental Pratincole	Glareola maldivarum		352	89	71
Small Pratincole	Glareola lactea		2,757	3,113	2,482
Northern Lapwing	Vanellus vanellus		249	1,345	428
River Lapwing	Vanellus duvaucelli		963	656	93
Yellow-wattled Lapwing	Vanellus malabaricus		596	1,190	819
Grey-headed Lapwing	Vanellus cinereus		239	218	388
Red-wattled Lapwing	Vanellus indicus		7,058	4,973	6,862
Sociable Lapwing	Vanellus gregarius	CR	2	407	222
White-tailed Lapwing	Vanellus leucurus		64	427	232
unidentified lapwings Pacific Golden Plover	Vanellus spp. Pluvialis fulva		12,495		<u>19</u> 4,458
Grey Plover	Pluvialis squatarola		3,643	350	618
Great Ringed Plover	Charadrius hiaticula		5,045	28	4
Little Ringed Plover	Charadrius dubius		1,024	3,704	2,039
Kentish Plover	Charadrius alexandrinus		1,842	2,968	2,719
Lesser Sandplover	Charadrius mongolus		6,340	21,468	7,656
Greater Sandplover	Charadrius leschenaultii		1,393	411	150
unidentified Charadrius plovers	Charadrius spp.		546	95	5
Eurasian Woodcock	Scolopax rusticola		2	6	3
Jack Snipe	Lymnocryptes minimus		10	175	110
Solitary Snipe	Gallinago solitaria			44	21
Pintail Snipe	Gallinago stenura		186	302	276
Swinhoe's Snipe	Gallinago megala		1 4/0	97	1
Common Snipe	Gallinago gallinago Limnodromus semipalmatus	NT	1,468	<u>1,538</u> 5	463
Asian Dowitcher Black-tailed Godwit	Limitodromus semipaimatus Limosa limosa	NT	104,239	113,044	32,271
Bar-tailed Godwit	Limosa lapponica	INT	466	4,663	1,560
unidentified godwits	Limosa happonica Limosa spp.		314	4,003	1,500
Whimbrel	Numenius phaeopus		115	1,283	59
Eurasian Curlew	Numenius arguata		12,356	1,615	207
Spotted Redshank	Tringa erythropus		860	489	90
Common Redshank	Tringa totanus		6,268	9,548	4,071
Marsh Sandpiper	Tringa stagnatilis		9,350	2,155	3,714
Common Greenshank	Tringa nebularia		3,028	2,878	639
Green Sandpiper	Tringa ochropus		1,449	508	398
Wood Sandpiper	Tringa glareola		2,624	6,169	3,811
unidentified Tringa Sandpipers	Tringa spp.		10,000	252	101
Terek Sandpiper	Xenus cinereus		217	353	131
Ruddy Turnstone	Actitis hypoleucos		4,944 11	5,449 65	4,764
Great Knot	Arenaria interpres Calidris tenuirostris		1	8	5
Sanderling	Calidris alba		47	84	7
Little Stint	Calidris minuta		9,355	42,520	7,526
Temminck's Stint	Calidris terminckii		2,925	5,185	1,289
Long-toed Stint	Calidris subminuta		3	16	40
Curlew Sandpiper	Calidris ferruginea		991	3,550	2,772
Dunlin	Calidris alpina		20,341	822	1,575
Spoon-billed Sandpiper	Eurynorhynchus pygmaeus	EN	1	6	
Broad-billed Sandpiper	Limicola falcinellus		5	3	3
Ruff	Philomachus pugnax		12,785	29,168	14,134
unidentified Calidris sandpipers	Calidris spp.		591	9	25
unidentified shorebirds	Charadrii spp.		104,929	13,541	18,575
Heuglin's Gull	Larus heuglini		1,790	505	8,333
Yellow-legged Gull Great Black-headed (Pallas's) Gull	Larus cachinnans Larus ichthyaetus		856	18 1,317	52 226
Brown-headed Gull	Larus brunnicephalus		6,674	18,790	7,048
Common Black-headed Gull	Larus ridibundus		4,273	28,440	3,451
Slender-billed Gull	Larus genei		104	973	1,020
Little Gull	Larus minutus		.01	1	.,020
unidentified gulls	Laridae spp.		2,318	5,683	290
Gull-billed Tern	Gelochelidon nilotica		1,613	992	513
Caspian Tern	Sterna caspia		256	635	608
			85	895	68
Lesser Crested Tern	Sterna bengalensis				00
Sandwich Tern	Sterna sandvicensis		71	50	00
					6,227

English Name	Scientific Name	GTS ¹	2002	2003	2004
Common Tern	Sterna hirundo		1,967	1,075	171
Little Tern	Sterna albifrons		2,283	4,023	808
Black-bellied Tern	Sterna melanogaster	NT	339	562	38
Whiskered Tern	Chlidonias hybridus		16,221	12,483	19,005
White-winged Black Tern	Chlidonias leucopterus		311	4	4
unidentified terns	Sterninae spp.		280	13,071	6,944
Indian Skimmer	Rynchops albicollis	VU	472	161	
Total Waterbirds			2,923,382	2,501,605	2,037,691
Osprey	Pandion haliaetus		15	84	50
Black Kite	Milvus migrans				33
Brahminy Kite	Haliastur indus			630	386
White-bellied Fish-eagle	Haliaeetus leucogaster			42	7
Pallas's Sea Eagle	Haliaeetus leucoryphus	VU	1	22	11
White-tailed Eagle	Haliaeetus albicilla	NT			1
Lesser Fish-eagle	Ichthyophaga humilis	NT		3	22
Grey-headed Fish-eagle	Ichthyophaga ichthyaetus	NT		12	12
Hen Harrier	Circus cyaneus			1	
Pallid Harrier	Circus macrourus	NT		1	
Western Marsh Harrier	Circus aeruginosus		1	370	442
Eastern Marsh Harrier	Circus spilinotus			44	5
Greater Spotted Eagle	Aquila clanga	VU	1	49	23
Steppe Eagle	Aquila nipalensis			3	7
Imperial Eagle	Aquila heliaca	VU		4	5
Peregrine Falcon	Falco peregrinus			48	2
unidentified raptors				13	27
Ruddy Kingfisher	Halcyon coromanda			34	
Stork-billed Kingfisher	Halcyon capensis			118	61
Brown-winged Kingfisher	Halcyon amauroptera			91	8
White-throated Kingfisher	Halcyon smyrnensis		2	1,613	827
Black-capped Kingfisher	Halcyon pileata			196	15
Collared Kingfisher	Todiramphus chloris			40	
Oriental Dwarf Kingfisher	Ceyx erithacus			1	
Common Kingfisher	Alcedo atthis		1	1,168	645
Pied Kingfisher	Ceryle rudis		101	893	534
unidentified Kingfishers	Alcedinidae spp.			23	3
White Wagtail	Motacilla alba			2,532	1,737
White-browed Wagtail	Motacilla maderaspatensis			1,087	673
Grey Wagtail	Motacilla cinerea			3,800	2,636
Citrine Wagtail	Motacilla citreola			289	210
Yellow Wagtail	Motacilla flava			2,705	3,833
unidentified wagtails	<i>Motacilla</i> spp.				114
Water Pipit	Anthus spinoletta			211	375
Red-throated Pipit	Anthus cervinus			1	1
Paddyfield Pipit	Anthus rufulus				14

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.2.5 Maldives

The count received from Maldives in 2004 represented the first time the country had taken part in the AWC. Two sites, Filitheyo Island and Etheremadivatu Island, were surveyed, and 22 and 34 individuals were recorded respectively (Figure 7). Neither site meets the criteria of international importance, and no globally threatened species were recorded.

Table 13: Waterbird species counts reported during the AWC in Maldives in 2004

English Name	Scientific Name	2004
Grey Heron	Ardea cinerea	5
Green-backed Heron	Butorides striatus	3
White-breasted Waterhen	Amaurornis phoenicurus	1
Common Sandpiper	Actitis hypoleucos	2
(Greater) Crested Tern	Sterna bergii	1
Black-naped Tern	Sterna sumatrana	12
unidentified terns	Sterninae spp.	20
Brown Noddy	Anous stolidus	1
Lesser Noddy	Anous tenuirostris	11

A total of 56 individuals of eight waterbird species were recorded (Table 13). The most abundant groups were the terns and noddies. Tourism development was reported as a threat at both sites. The counts were contributed by individual counters.

3.2.6 Nepal

Eleven sites were surveyed for the AWC during 2002–2004 (Figure 11 and Table 14). Total numbers of waterbirds recorded were 5,259 (3 sites), 1,468 (3 sites) and 10,192 (9 sites) in 2002, 2003 and 2004, respectively.

Two Ramsar sites (also IBAs), namely, Beeshazar and associated lakes and Koshi Tappu Wildlife Reserve, and one UNESCO World Heritage Site (also an IBA), the Chitwan National Park, were surveyed. Three sites recorded more than 1% of the biogeographic population of at least one waterbird species.

Totals of 75 waterbird and three kingfisher species were recorded (Table 15). The most numerous species recorded were Ruddy Shelduck (2,280 in 2004), Common Coot (1,012 in 2004), Small Pratincole (926 in 2004), Great Cormorant (698 in 2004), Gadwall (548 in 2004), Common Teal (519 in 2002) and Goosander (519 in 2004).

The highest count of the Vulnerable Lesser Adjutant was 52 individuals in 2004. Highest counts of the six Near Threatened species were as follows: Oriental Darter (18 in 2002), Black-necked Stork (6 in 2002), Black-headed Ibis (96 in 2002), Falcated Duck (6 in 2004), Ferruginous Duck (20 in 2004) and Black-bellied Tern (8 in 2002).

Habitat loss and degradation were the major threats to wetlands reported, combined with the possibility of reduced food availability due to over-fishing for many wetland-dependent birds. Water pollution, river poisoning and dynamite blasting to obtain fish, increased use of pesticides – particularly on the paddy crop, hunting and associated human disturbance and the spread of invasive alien plant species in wetland areas were some of the specific problems that Nepal's waterbirds were reported to have been facing in recent years.

The census was coordinated by Bird Conservation Nepal.

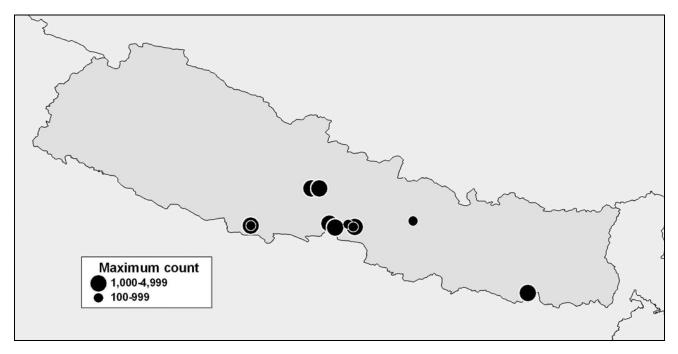


Figure 11: AWC site coverage and numerical distribution of waterbirds in Nepal, 2002–2004

Table 14: Wetland sites surveyed during the AWC in	n Nepal, 2002–2004
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Province ¹	Site Name ²	Status ³	Threats⁴	2002	2003	2004
CR: Bagmati	Bagmati River near Kathmandu		5689FG		100	
CR: Bagmati	Taudaha		23568DFG		311	174
CR: Narayani	Beeshazar and associated lakes	R, I	3CH			155
CR: Narayani	Rapti River: at Sauraha					695
CR: Narayani	Chitwan National Park (CNP): Narayani River: Amaltari Ghat – Tribeni Ghat	I, W	6789AFG			1,112
CR: Narayani	CNP: Narayani River: Sigrauli to Amaltari Ghat	_	489ACDFGL	1,447		3,122
CR: Narayani	CNP: Rapti River and Dungre River	_				1,222
CR: Narayani	CNP: Rapti River: Kasara to Narayani Confl (Ghatgain to Bahmara)	_	6789AFG	1,139		1,344
CR: Narayani	Reu River: Baluwai Khola to Hathisaar		6789HGK			205
ER: Koshi	Koshi River Barrage (Koshi Tappu Wildlife Reserve)	R, I	28DFG	2,686		
WR: Gandaki	Pokhara Valley Lakes*		25678GHL		1,066	2,163

Province¹: CR – Central Region, ER – Eastern Region, WR – Western Region. Site name²: Pokhara Valley Lakes* – 2003 count covers only Khaste Lake. 2004 count is a total count of Fewa, Khaste, Madi and Rupa Lakes.

Status³: R – Ramsar site, I – Wetland IBA identified by BirdLife International (2005), W – UNESCO World Heritage Site.

Threats⁴: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 - Agriculture along drying margins, 7 - Excessive cattle grazing, 8 - Domestic sewage, 9 - Solid waste, A - Industrial waste, B - Oil pollution, C - Pesticides, D - Fertilisers, E - Mining, F - Hunting/trapping/poaching of birds, G - Small-scale fishing, H -Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 15: Waterbird species counts reported during the AWC in Nepal, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		48	74	176
Great Crested Grebe	Podiceps cristatus				6
Black-necked Grebe	Podiceps nigricollis		1		
Great Cormorant	Phalacrocorax carbo		209	1	698
Little Cormorant	Phalacrocorax niger		96		
Oriental Darter	Anhinga melanogaster	NT	18		17
Grey Heron	Ardea cinerea		14		9
Eastern White Egret	Ardea modesta		58		62
Intermediate Egret	Ardea intermedia		40	10	81
Purple Heron	Ardea purpurea		4		2
Cattle Egret	Ardea (Bubulcus) ibis		158	28	54
Green-backed Heron	Butorides striatus		10		10
Indian Pond Heron	Ardeola gravii		92	9	230
Little Egret	Egretta garzetta		89		219
Black-crowned Night-heron	Nycticorax nycticorax		442		263
Yellow Bittern	Ixobrychus sinensis				1
Cinnamon Bittern	Ixobrychus cinnamomeus				3
Black Bittern	Ixobrychus flavicollis		2		
Asian Openbill	Anastomus oscitans		54		57
Black Stork	Ciconia nigra		18		114
Woolly-necked Stork	Ciconia episcopus		10		6
Black-necked Stork	Ephippiorhynchus asiaticus	NT	6		
Lesser Adjutant	Leptoptilos javanicus	VU	4		52
Black-headed Ibis	Threskiornis melanocephalus	NT	96		
Indian Black Ibis	Pseudibis papillosa		84		169
Eurasian Spoonbill	Platalea leucorodia		14		
Lesser Whistling Duck	Dendrocygna javanica		186	192	351
Bar-headed Goose	Anser indicus		175		138
Ruddy Shelduck	Tadorna ferruginea		869		2,280
Common Shelduck	Tadorna tadorna		1		1
Cotton Pygmy Goose	Nettapus coromandelianus				2
Eurasian Wigeon	Anas penelope		55	17	83
Falcated Duck	Anas falcata	NT			6
Gadwall	Anas strepera		250	49	548
Common Teal	Anas crecca		519	426	445
Mallard	Anas platyrhynchos		404	32	189
Spot-billed Duck	Anas poecilorhyncha		4	3	18
Northern Pintail	Anas acuta		24		28
Garganey	Anas querquedula		31		36
Northern Shoveler	Anas clypeata		5	4	4
Red-crested Pochard	Netta rufina			2	39
Common Pochard	Aythya ferina		7	2	87

English Name	Scientific Name	GTS	2002	2003	2004
Ferruginous Duck	Aythya nyroca	NT	7	16	20
Tufted Duck	Aythya fuligula				5
Goosander	Mergus merganser		196		519
Brown Crake	Amaurornis akool				12
White-breasted Waterhen	Amaurornis phoenicurus		11	1	10
Purple Swamphen	Porphyrio porphyrio		70	2	
Common Moorhen	Gallinula chloropus		291	20	67
Common Coot	Fulica atra		5	432	1,012
Bronze-winged Jacana	Metopidius indicus		34	22	124
Greater Painted Snipe	Rostratula benghalensis				1
Black-winged Stilt	Himantopus himantopus			4	4
Stone Curlew	Burhinus oedicnemus				20
Small Pratincole	Glareola lactea		62		926
Northern Lapwing	Vanellus vanellus				5
River Lapwing	Vanellus duvaucelli		15		166
Grey-headed Lapwing	Vanellus cinereus			40	3
Red-wattled Lapwing	Vanellus indicus		18		55
Little Ringed Plover	Charadrius dubius		14	2	112
Kentish Plover	Charadrius alexandrinus		62		61
Pintail Snipe	Gallinago stenura		5		3
Common Snipe	Gallinago gallinago			2	22
Eurasian Curlew	Numenius arguata		65		
Common Redshank	Tringa totanus		12	11	12
Common Greenshank	Tringa nebularia		148	33	250
Green Sandpiper	Tringa ochropus		44	12	85
Common Sandpiper	Actitis hypoleucos		51	10	98
Little Stint	Calidris minuta		7		15
Temminck's Stint	Calidris temminckii		23	12	97
Great Black-headed (Pallas's) Gull	Larus ichthyaetus		7		
Brown-headed Gull	Larus brunnicephalus				2
Common Black-headed Gull	Larus ridibundus				2
River Tern	Sterna aurantia		7		
Black-bellied Tern	Sterna melanogaster	NT	8		
Total Waterbirds			5,259	1,468	10,192
White-throated Kingfisher	Halcyon smyrnensis			1	
Common Kingfisher	Alcedo atthis		3		
Pied Kingfisher	Ceryle rudis		10		
White-browed Wagtail	Motacilla maderaspatensis			6	
Grey Wagtail	Motacilla cinerea			2	

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.2.7 Pakistan

A total of 109 sites were surveyed at least once in all three years (Figure 12 and Table 16). Waterbird totals were 496,943 (68 sites), 348,142 (87 sites) and 158,683 (23 sites) respectively in 2002, 2003 and 2004. Sixteen Ramsar sites and 23 IBAs were surveyed at least once.

Sites that recorded more than 20,000 waterbirds were: Chashma Barrage Reservoir (157,925 in 2002), Nur-Ri Lake (50,997 in 2002), Haleji Lake (39,248 in 2002), Keenjhar Lake (30,610 in 2002) and Lungh Lake (24,829 in 2002). A total of 18 sites recorded more than 1% of the biogeographic population of at least one waterbird species.

A total of 115 waterbird species were recorded in all three years, together with nine raptor and three kingfisher species (Table 17). The most numerous species recorded were: Common Coot (97,649 in 2002), Common Teal (50,977 in 2003), Common Pochard (42,509 in 2002), Northern Shoveler (40,676 in 2003), Northern Pintail (39,188 in 2002), Eurasian Wigeon (24,773 in 2002), Gadwall (23,207 in 2002), Mallard (17,998 in 2003), Tufted Duck (13,766 in 2003) and Greater Flamingo (6,966 in 2002).

The highest count totals of seven globally threatened species during this period were as follows (Table 17): Critically Endangered: Sociable Lapwing (6 in 2002); Endangered: White-headed Duck (23 in 2003); Vulnerable: Dalmatian Pelican (994 in 2002), Marbled Teal (132 in 2003), Pallas's Sea Eagle (3 in 2002), Greater Spotted Eagle (25 in 2002) and Imperial Eagle (4 in 2002). Highest count totals of eight Near Threatened species were: Oriental Darter (44 in 2003), Black-necked Stork (39 in 2003), Lesser Flamingo (290 in 2003), Ferruginous Duck (341 in 2003), Black-tailed Godwit (2,156 in 2003), Black-bellied Tern (78 in 2003) and Pallid Harrier (3 in 2002).

Major threats to the wetlands were climate-related (failure of rainfall), drainage, reclamation, water diversion for irrigation and other uses, pollution, hunting, trapping, poaching, overgrowth of vegetation, eutrophication, over-fishing and tourism /recreation. Additionally, the condition of the wetlands has changed considerably due to climatic conditions over the last decade (Jabeen Rahat 2004). In the southern province of Sindh, drought conditions had prevailed in the previous 5–6 years, leading to a loss and/or salination of many wetlands. However, during the 2002–2004 period, there was rainfall and some wetlands revived. More recently, leading up to the 2006 AWC, there has been widespread and heavy rain and this may enable the recovery of some of these wetlands and changes in the abundance and diversity of waterbird species (Munir Awan, pers. comm., Sept. 2006).

The counts were coordinated by the Punjab Wildlife and Parks Department and Sindh Wildlife Department.

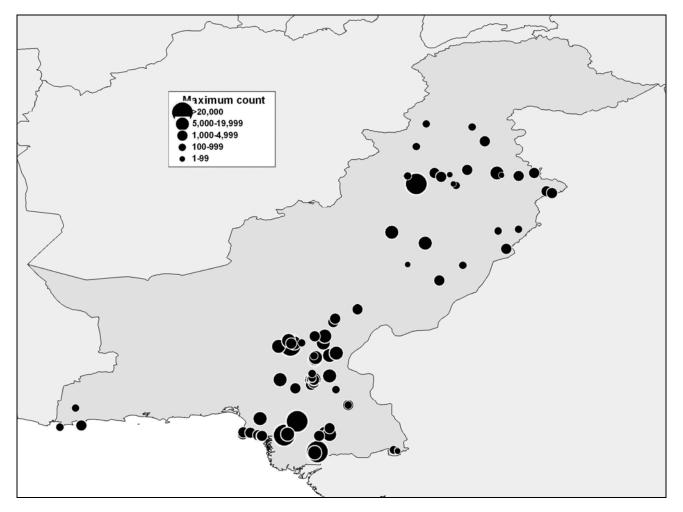


Figure 12: AWC site coverage and numerical distribution of waterbirds in Pakistan, 2002–2004

Table 16: Wetland sites surveyed during the AWC in Pakistan, 2002–2004

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Balachistan	Aakra River Estuary		BFH	1,942		
Balachistan	Akara (Kaur) Dam		2FL	212		
Balachistan	Dasht Hor		47BFH	1,169		
Balachistan	Dasht River (Middle Part)		7F	72		
Balachistan	Gwadar Beach		478BFH	1,705		
Balachistan	Jiwani Mangroves	R, I	48BFH	964		
Balachistan	Saiji Dam		247F	1,531		

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Islamabad	Rawal Lake		289CDL		2,221	
NWFP	Kabul River		8CDF	341		
NWFP	Tanda Reservoir	R	236KL	414		
NWFP NWFP	Tarbela Reservoir Thanedar Wala	R, I	2CDK 2367CDF	<u>798</u> 451		
Punjab	Bajwat area	К , I	367CDF	10,882	817	
Punjab	Bathanwala		367CDFG 367CDFG	10,002	1,018	
Punjab	Chailianwala Marsh area		36CDF		35	
Punjab	Chandian Wali		36CDF	259		
Punjab	Ghamaghar Lake			70	160	656
Punjab	Head Islam		67CDK	121	150	139
Punjab	Head Marala Barrage		67ACD	4,390	2,691	567
Punjab	Head Qadirabad	I	367ACD	2,532	2,526	2,537
Punjab	Head Sulemanki		367CDFK		4,169	82
Punjab	Jehlum Bridge		89F		438	
Punjab	Kakos Kay			237	743	
Punjab	Kallar Kahar Lake		389L	1,433	1,302	4,855
Punjab	Khangarh Lake/Marsh Area		37FI		78	
Punjab	Kharal Lake		J	88	177	
Punjab	Lal Sohanara (Patisar) Lake	I	5J	1,297	182	149
Punjab	Nammal Lake		7CDK	992	1,419	961
Punjab	Rang Pur (Khushab)		37FI		5,265	1,093
Punjab	Rasool Barrage		37GK	7,399	2,332	
Punjab	River Ravi		67L		3,016	
Punjab	Taunsa Barrage		3567IK	6,518	9,559	
Punjab	Ucchali Wetland Complex: Jahlar Lake	R, I	28	50	91	43
Punjab	Ucchali Wetland Complex: Khabbaki Lake		6CDJ	84	42	0
Punjab Dupiab/NW/ED	Ucchali Wetland Complex: Ucchali Lake	R, I	26CD 347KL	500 157,925	2,006	1,316 64,512
Punjab/NWFP Sindh	Chashma Barrage Reservoir Akhero Dhand	R, I	<u>347 KL</u>	157,925	92,794 373	04,312
Sindh	Akro Dhand		3F		274	
Sindh	Baboo Dhand		1		274	10,405
Sindh	Badam		35FG	1,203		10,403
Sindh	Bakaar Lake		3FGK	920	702	
Sindh	Barr Talao		47	8	102	
Sindh	Berwari Dhand		1		7,530	7,270
Sindh	Bhan Sar Talao		2347F	6	76	.,
Sindh	Bhode Sar I Talao		237F	4	60	
Sindh	Bhode Sar II Talao		247F	57	91	
Sindh	Charvo Lake		3BFH	319	5,694	
Sindh	Chotiari Dam		3FH		2,258	
Sindh	Chungro Lake		BCDFG		841	
Sindh	Clifton Beach		8BGL	1,834	186	
Sindh	Dahee Lake		F		3,203	
Sindh	Dangree Dhand		1		2,109	
Sindh	Deh Akro-II: Chach Dhand	R, I	3F	1,535	485	
Sindh	Deh Akro-II: Pani Waro Dubho		3F		879	
Sindh	Deh Akro-II: Wassu Wari		3F		1,412	
Sindh	Dholaho Dhand		1	0.000	2,057	
Sindh	Dinn-E-Wari		3F	2,038	0.000	
Sindh Sindh	Drigh Lake	R, I	356BCDFGL	10,755	9,329	1 107
Sindh	Ganjo Dhand Guddu Barrage		1 28ADFHL	3,549	2,597	1,187
Sindh	Haleji Lake	R, I	345GL	39,248	15,380	
Sindh	Hamal (Katchri) Lake		35FHI	6,619	12,943	
Sindh	Hathungo Lakes: Gujri Lake		35F	4,608	419	
Sindh	Hathungo Lakes: Kinri Lake		35F	2,238	151	
Sindh	Hathungo Lakes: Mathoon Lake		3FG	_,_00	698	
Sindh	Hawkes Bay/Sandspit		48BHL	2,492	2,030	
Sindh	Hub Dam	R, I	267BCHL	8,368	6,482	
Sindh	Hub River Mouth		378ABG	1,052	1,504	
Sindh	Hudero Lake		347H	13,643	1,154	
Sindh	Ibrahim's Haidri Coast		8ABH	3,297	1,766	
Sindh	Indus River Mouth	R, I	4FH	1,308	1,313	
Sindh	Jabho Lake	R, I	BFH	13,712	4,805	
Sindh	Jagheer		1			13,750
Sindh			1		5,572	5,486
	Jarhi Dhand					
Sindh	Junathi Dhand		CDFG		592	
Sindh Sindh	Junathi Dhand Kakrre Ji Dhand		CDFG CDFG			
Sindh Sindh Sindh	Junathi Dhand Kakrre Ji Dhand Kala Kot Lake		CDFG CDFG 3F	15,984	592 820	
Sindh Sindh	Junathi Dhand Kakrre Ji Dhand		CDFG CDFG	15,984	592	

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Sindh	Keenjhar (Kinjhar/Kalri) Lake	R, I	347FHL	30,610	15,952	
Sindh	Khakhro Dhand		1		2,174	
Sindh	Kirchan Dhand		1		6,179	3,848
Sindh	Korangi Creek		49ABH	3,125	582	
Sindh	Kotri Barrage		28FHL		646	
Sindh	Loonghno Dhand		3F		3,502	
Sindh	Lungh Lake		36BCDL	24,829	20,028	
Sindh	Manchar Lake	I	578BFHL	8,560	6,287	
Sindh	Mehrano Lake	pl	3		9,236	
Sindh	Nagiopeer Dhand		1		5,060	5,433
Sindh	Nur-Ri Lake	R, I	BFH	50,997	11,613	
Sindh	Phariaro Lake		1		165	
Sindh	Phoosna	I	3BFH	9,746	9,635	
Sindh	Pugri Dhand	I	35CDF	7,363	2,448	
Sindh	Putkan Dhand		1		8,027	11,940
Sindh	(Mountain Stream of) Rann of Kachchh: Jijoon Nadi		3478	57	73	
Sindh	Rann of Kachchh: Lakharr Khadio Talao	-	2347	76	72	
Sindh	Rann of Kachchh: Narya Sar Talao	-	237F	166	122	
Sindh	Rann of Kachchh: Rann Pure Dam		2F		49	
Sindh	Rup (Ghauspur) Lake		26CDFGH	624	2,727	
Sindh	Sadoro Faqir Ki Miani		1			17,896
Sindh	Samabi Dhand		3		295	
Sindh	Samand		3F		4,825	
Sindh	Nara canal wetlands: Sangrario Dhand	pR, pl	3F	1,187	1,943	
Sindh	Simni Dhand		1		2,109	
Sindh	Sindh Dhoro (Chimney Lake)		8FG	3,134	1,246	
Sindh	Sodar Peer Dhand		1			4,600
Sindh	Soomarkhi Lake		3F	6,429		
Sindh	Sukkur Barrage		268BCHL	5,010	1,816	
Sindh	Tharri Lake		3BFG	6,520	1,802	

Status¹: R – Ramsar site, pR – part of a Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005).

Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 17: Waterbird specie	s counts reported during the	AWC in Pakistan, 2002–2004
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English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		890	3,859	1,362
Great Crested Grebe	Podiceps cristatus		70	123	28
Black-necked Grebe	Podiceps nigricollis		430	74	2
Great White Pelican	Pelecanus onocrotalus		2,246	2,393	
Dalmatian Pelican	Pelecanus crispus	VU	994	141	
Great Cormorant	Phalacrocorax carbo		3,148	2,900	433
Indian Cormorant	Phalacrocorax fuscicollis		35	256	
Little Cormorant	Phalacrocorax niger		2,733	4,566	899
Oriental Darter	Anhinga melanogaster	NT		44	6
Grey Heron	Ardea cinerea		889	876	87
Eastern White Egret	Ardea modesta		926	1,082	219
Intermediate Egret	Ardea intermedia		421	1,442	220
Purple Heron	Ardea purpurea		49	420	26
Cattle Egret	Ardea (Bubulcus) ibis		1,180	3,270	495
Green-backed Heron	Butorides striatus		10	4	
Indian Pond Heron	Ardeola grayii		1,078	1,127	295
Little Egret	Egretta garzetta		2,348	3,357	1,332
Western Reef Egret	Egretta gularis		357	84	
Black-crowned Night-heron	Nycticorax nycticorax		195	14	
Eurasian Bittern	Botaurus stellaris			12	
Little Bittern	Ixobrychus minutus			7	
Yellow Bittern	Ixobrychus sinensis		20	5	
Black Stork	Ciconia nigra			18	
Eurasian White Stork	Ciconia ciconia		2		
Black-necked Stork	Ephippiorhynchus asiaticus	NT		39	
Indian Black Ibis	Pseudibis papillosa			4	2
Glossy Ibis	Plegadis falcinellus		23	369	32
Eurasian Spoonbill	Platalea leucorodia		975	752	16
Greater Flamingo	Phoenicopterus ruber		6,966	2,785	34

Results: South Asia

English Name	Scientific Name	GTS ¹	2002	2003	2004
Lesser Flamingo	Phoeniconaias minor	NT		290	
Greylag Goose Bar-headed Goose	Anser anser Anser indicus		2,893	<u>2,160</u> 1,167	<u>16</u> 213
Ruddy Shelduck	Tadorna ferruginea		432	735	32
Common Shelduck	Tadorna tadorna		529	384	20
Cotton Pygmy Goose	Nettapus coromandelianus		215	180	
Eurasian Wigeon	Anas penelope		24,773	14,565	6,719
Gadwall	Anas strepera		23,207	14,948	6,205
Common Teal	Anas crecca		46,293	50,977	10,584
Mallard	Anas platyrhynchos		15,900	17,998	8,838
Spot-billed Duck	Anas poecilorhyncha		00.400	20	0.500
Northern Pintail	Anas acuta		<u>39,188</u> 82	<u>12,367</u> 107	9,503
Garganey Northern Shoveler	Anas querquedula Anas clypeata		36,561	40,676	24,166
Marbled Teal	Marmaronetta angustirostris	VU	42	132	24,100
Red-crested Pochard	Netta rufina		25	13	
Common Pochard	Aythya ferina		42,509	31,376	14,118
Ferruginous Duck	Aythya nyroca	NT	337	341	, -
Tufted Duck	Aythya fuligula		12,429	13,766	2,547
Red-breasted Merganser	Mergus serrator		2		
Goosander	Mergus merganser		7	3	
White-headed Duck	Oxyura leucocephala	EN	5	23	5
unidentified ducks	Anatinae spp.		101,000	9,000	5,000
Common Crane Water Rail	Grus grus		12	42	
White-breasted Waterhen	Rallus aquaticus Amaurornis phoenicurus		117	604	115
Baillon's Crake	Porzana pusilla		117	2	115
Purple Swamphen	Porphyrio porphyrio		209	568	357
Common Moorhen	Gallinula chloropus		720	1,947	1,030
Common Coot	Fulica atra		97,649	75,344	59,055
Pheasant-tailed Jacana	Hydrophasianus chirurgus		334	76	4
Greater Painted Snipe	Rostratula benghalensis			21	
Eurasian Oystercatcher	Haematopus ostralegus		338	4	
Black-winged Stilt	Himantopus himantopus		2,632	5,434	1,133
Pied Avocet Great Thick-knee	Recurvirostra avosetta		<u>641</u> 32	414	90
Small Pratincole	Burhinus (Esacus) recurvirostris Glareola lactea		32	186	
Northern Lapwing	Vanellus vanellus		165	123	35
Yellow-wattled Lapwing	Vanellus malabaricus		9	120	
Red-wattled Lapwing	Vanellus indicus		1,035	2,009	282
Sociable Lapwing	Vanellus gregarius	CR	6	_,	
White-tailed Lapwing	Vanellus leucurus		177	329	140
Pacific Golden Plover	Pluvialis fulva		2		
Grey Plover	Pluvialis squatarola		9	9	
Little Ringed Plover	Charadrius dubius		529	2,275	747
Kentish Plover	Charadrius alexandrinus		166	101	
Lesser Sandplover	Charadrius mongolus		<u> </u>	12	
Greater Sandplover Common Snipe	Charadrius leschenaultii Gallinago gallinago		623	108	9
Black-tailed Godwit	Limosa limosa	NT	1,475	2,156	25
Bar-tailed Godwit	Limosa lapponica		154	160	20
Whimbrel	Numenius phaeopus		9	100	
Eurasian Curlew	Numenius arquata		122	77	
Spotted Redshank	Tringa erythropus		16		
Common Redshank	Tringa totanus		905	688	230
Marsh Sandpiper	Tringa stagnatilis		48	4	
Common Greenshank	Tringa nebularia		293	277	111
Green Sandpiper	Tringa ochropus		380	267	
Wood Sandpiper	Tringa glareola		<u>123</u> 33	3	
Terek Sandpiper Common Sandpiper	Xenus cinereus Actitis hypoleucos		1,187	550	266
Ruddy Turnstone	Arenaria interpres		1,187	550	200
Sanderling	Calidris alba		46		
Little Stint	Calidris minuta		3,120	4,427	534
Temminck's Stint	Calidris temminckii		108	15	
Curlew Sandpiper	Calidris ferruginea		48	12	
Dunlin	Calidris alpina		585	8	
Broad-billed Sandpiper	Limicola falcinellus		6		
Ruff	Philomachus pugnax		574	2,207	270
Red-necked Phalarope	Phalaropus lobatus		2		
Sooty Gull	Larus hemprichii		94	400	
Heuglin's Gull	Larus heuglini		1,892	490	50

English Name	Scientific Name	GTS ¹	2002	2003	2004
Great Black-headed (Pallas's) Gull	Larus ichthyaetus		411	176	4
Brown-headed Gull	Larus brunnicephalus		84	88	
Common Black-headed Gull	Larus ridibundus		4,533	3,593	115
Slender-billed Gull	Larus genei		639	75	
Gull-billed Tern	Gelochelidon nilotica		499	112	
Caspian Tern	Sterna caspia		121	70	
Lesser Crested Tern	Sterna bengalensis				170
Sandwich Tern	Sterna sandvicensis		11		
(Greater) Crested Tern	Sterna bergii		6		
River Tern	Sterna aurantia		324	700	50
Common Tern	Sterna hirundo		34	38	
Little Tern	Sterna albifrons		267	490	407
Black-bellied Tern	Sterna melanogaster	NT	9	78	
Whiskered Tern	Chlidonias hybridus		775	486	
White-winged Black Tern	Chlidonias leucopterus			8	
Total Waterbirds			496,943	348,142	158,683
Osprey	Pandion haliaetus		65	23	
Black-shouldered Kite	Elanus caeruleus		11	10	
Black Kite	Milvus migrans		398	880	
Brahminy Kite	Haliastur indus		17	9	
Pallas's Fish-eagle	Haliaeetus leucoryphus	VU	3	2	
Pallid Harrier	Circus macrourus	NT	3	2	
Western Marsh Harrier	Circus aeruginosus		56	148	
Greater Spotted Eagle	Aquila clanga	VU	25	16	
Imperial Eagle	Aquila heliaca	VU	4	2	
White-throated Kingfisher	Halcyon smyrnensis		29	79	
Common Kingfisher	Alcedo atthis		5	24	
Pied Kingfisher	Ceryle rudis		26	119	
White Wagtail	Motacilla alba		17	81	
White-browed Wagtail	Motacilla maderaspatensis			2	
Grey Wagtail	, Motacilla cinerea			76	
Citrine Wagtail	Motacilla citreola		4	18	
Yellow Wagtail	Motacilla flava			28	

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.2.8 Sri Lanka

A total of 112 sites were surveyed at least once in all three years (Figure 13 and Table 18). Waterbird totals recorded were 220,342 (67 sites), 264,862 (66 sites) and 236,689 (65 sites) respectively in 2002, 2003 and 2004. The results of the census are summarised in Sirivardana (2003, 2004 and 2005).

Two Ramsar sites (both IBAs), namely Anaiwilundawa Tanks and Bundala National Park, were surveyed. Eleven other wetland IBAs were also surveyed.

Sites that recorded more than 20,000 waterbirds were Bundala National Park (118,705 in 2002), Vankalai Triangle (107,525 in 2003), Hambantota Wetlands (57,934 in 2004), Adam's Bridge Islands (40,375 in 2003), Vadamaradchi Lagoon (29,632 in 2004) and Uppu Aru Lagoon (25,368 in 2004). A total of 23 sites recorded more than 1% of the biogeographic population of at least one waterbird species.

A total of 103 waterbird species were recorded in all three years, together with 10 raptor and two kingfisher species (Table 19). The most numerous species recorded were Northern Pintail (107,258 in 2003), Lesser Crested Tern (26,288 in 2003), Curlew Sandpiper (22,784 in 2004), Cattle Egret (20,858 in 2004), Garganey (15,838 in 2004), Eurasian Wigeon (14,581 in 2004), Greater Crested Tern (13,946 in 2003), Little Stint (13,098 in 2004) and Marsh Sandpiper (9,343 in 2004).

The highest count totals of two Vulnerable species during this period (Table 19) were as follows: Spot-billed Pelican (848 in 2002) and Lesser Adjutant (7 in 2003). The national populations of the two species have been estimated at 3,000 and 120–170 individuals, respectively, by Udaya Sirivardana (pers. comm., Sept. 2005).

Highest count totals of seven Near Threatened species were: Oriental Darter (167 in 2003), Painted Stork (527 in 2003), Black-necked Stork (1 in 2001), Black-headed Ibis (1,675 in 2002), Black-tailed Godwit (7,688 in 2004), Grey-headed Fish-eagle (10 in 2004) and Pallid Harrier (6 in 2002).

Major threats reported to wetlands were fishing, agricultural development, and pollution from agricultural and industrial sources. According to Warakagoda and Sirivardana (2006), wetlands throughout the island face constant threats, among which are infilling and other anthropogenic transformation, pollution and changes of water level; many wetlands have already been destroyed or badly damaged. Hunting (despite a total ban), raiding of heronries and a loss of nesting sites have also been recorded.

The counts were coordinated and carried out by the Ceylon Bird Club.

Figure 13: AWC site coverage and numerical distribution of waterbirds in Sri Lanka, 2002–2004

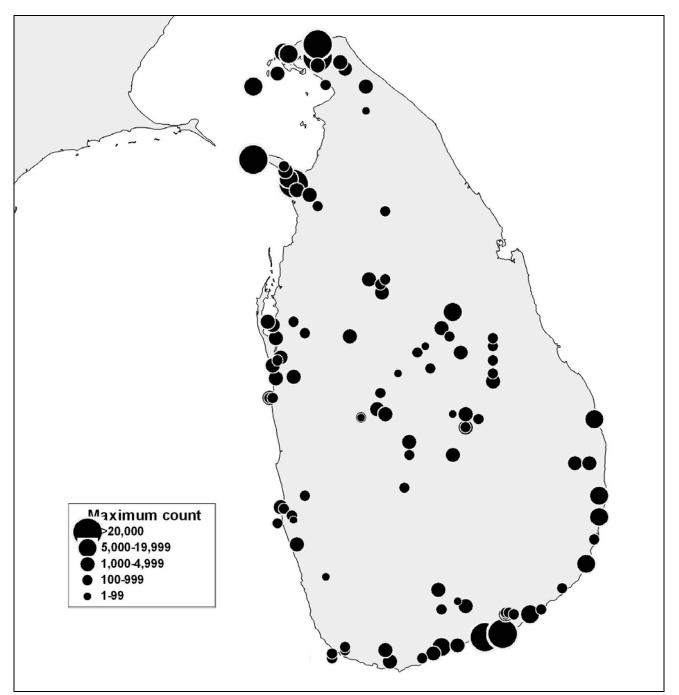


Table 18: Wetland sites surveyed durin	g the AWC in Sri Lanka, 2002–2004
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Province ¹	Site Name	Status ²	Threats ³	2002	2003	2004
CP	Himbiliyakada Wewa		G		74	
CP	Kandy Area: Kandy Lake		289L	232	242	309
CP	Kandy Area: Mahaweli River		24689GKL	2,812	3,735	754
CP CP	Kotmale Reservoir Matale to Dambulla Roadside		G		<u>839</u> 310	754
CP	Malale to Dambula Roadside		6CDG	1,462	1,309	3,341
CP CP	Namini Wewa		6G	1,402	37	3,341
CP	Sigiriya Area		2		57	96
CP	Victoria Reservoir		46ACDEG	416	1,810	00
EP	Akkaraipattu to Batticaloa				11,328	
EP	Akkaraipattu to Panama				6,816	
EP	Ampara to Akkaraipattu				1,137	
EP	Ampara				2,045	
EP	Lahugala to Arugam Bay					5,227
EP	Maduru Oya National Park	I		1,963		
EP	Panama to Okanda				705	
EP	Potuvil to Lahugala				997	
EP	Ruhuna East National Park		7FG		3,354	6,503
NCP	Anuradhapura to Maradankadawala			0.450	274 1,604	
NCP NCP	Anuradhapura Tanks Anuradhapura–Medawacchiya–Giant's Tank		G	2,159	862	
NCP	Analaganwila to Dehiattakandiya		G	395	002	
NCP	Dimbulagala Area			782		
NCP	Giritale Tank			102		709
NCP	Kaudulla Tank	· ·		775		8,420
NCP	Minneriya National Park					4,932
NCP	Galewela			71		,
NCP	Kandalama Tank		CFGL	219		
NCP	Katuvanvila – Mutugala Tanks			476		
NCP	Kolakanaveli Tank			188		
NCP	Mahakandarawa Tank			371		
NCP	Nacchaduwa Reservoir			632	1,210	
NCP	Parakrama Samudraya			1,073		4,028
NCP	Pimburettawa Tank	I	-	2,533	4 4 0 4	
NCP NCP	Wasgomuwa National Park Wendaru Wewa		7	3,204	1,131	436
NP	Adam's Bridge Islands		Н		40,375	6,417
NP	Delft Island		1	8,059	6,263	0,417
NP	Giant's Tank	1	G	1,212	456	1,828
NP	Jaffna Lagoon	l	G	2,326	1,751	.,0_0
NP	Jaffna–Arali–Punnalai		1	3,182	2,566	6,103
NP	Kaitadi Kulam		1	93	1,134	129
NP	Kayts Island and Mandaitivu	I	4	3,086	4,628	14,437
NP	Kattaiadampan			589		
NP	Kilinocchi					89
NP	Kora Kulam				2,672	2,239
NP	Elephant Pass			0.070	10.107	2,727
NP	Mannar Causeway		G	9,079	12,407	2,440
NP	Mannar Lagoon Modawacchiva Mannar Road			2,317		
NP NP	Medawacchiya – Mannar Road Mirusuvil Marsh			278		1,720
NP	Pooneryn Peninsula					417
NP	Punkudutivu Island		1	102	1,278	417
NP	Toddaveli Bay		I	102	517	38
NP	Uppu Aru Lagoon		1	3,269	11,617	25,368
NP	Vadamaradchi Lagoon		G	5,957	6,224	29,632
NP	Vankalai Triangle			,	107,525	10,216
NP	Vavuniya Area					870
NWP	Anaivilundawa Tanks	R, I		213	2,186	
NWP	Batalagoda Tank		G		34	1,289
NWP	Chilaw Sandspit and Bay		GH	410	728	
NWP	Galgamuwa Area			452	1,592	
NWP	Karikattai (Pottuvillu) Tank			0.010	534	
	Karukkapone Bay			2,046		
NWP	Karukkapone, Inland			133		
NWP				0 70 1		
NWP NWP	Katupota Tank		014	2,734	404	
NWP NWP NWP	Katupota Tank Kimbulwana Tank		GK	2,734	134	700
NWP NWP	Katupota Tank		GK	2,734	134	768

Province ¹	Site Name	Status ²	Threats ³	2002	2003	2004
NWP	Navadankulama			3,242	2,424	
NWP	Palavi Salt Pans			2,009		1,852
NWP	Puttalam Lagoon			3,146		
NWP	Puttalam Salt Pans			3,745		223
NWP	Tabbowa Tank			481		651
NWP	Tittawella Tank			212	134	651
SP	Akmimana		468ACDG		231	385
SP	Attaragoda Mangroves	R, I	L		88	72
SP	Bundala National Park		36G	118,705	2,361	3,285
SP	Debara Wewa		CD	515	786	372
SP	Galle Coast		6789ACDH	40	45	182
SP	Hambantota Wetlands		346789A	4,663		57,934
SP	Kalametiya – Lunama Sanctuary		46789CD	709		4,266
SP	Matara Coast		46DGI		987	1,459
SP	Mawella Kalapuwa		4689CDG			457
SP	Nakulugamuwa Marsh		689CD	154		231
SP	Nandugala Marshes		3468CDG	139	4,273	1,527
SP	Palatupana Saltern		G	7,023	515	5,430
SP	Pannagamuwa Wewa		36G		220	
SP	Pottana		27CF			153
SP	Ruhuna National Park: Block I	I	L	368	972	495
SP	Tangalla Mangrove		4689ACD			5,979
SP	Tangalla Marshes			1,008		1,361
SP	Tissa Wewa		6G	270	336	689
SP	Wakwella Marshes		678CD		188	
SP	Walahanduwa Paddy Fields		6ACD	52	202	261
SP	Wirawila Tank	I	6G	1,344	1,219	961
SP	Yodakandiya Tank		6G	691	639	798
SABP	Chandrika Wewa		8G	883		221
SABP	Kiri–Ibban–Ara					52
SABP	Suriya Wewa		7FG		3,369	121
UVAP	Belagan Wewa		6G		288	530
UVAP	Girandurukotte Area: Mahiyangana to Ulhitiya		G	138		
UVAP	Uda Walawe National Park	I	2467GL	1,382		2,084
UVAP	Ulhitiya and Ratkinda			605	67	
WP	Beira Lake		28ABCFGIKL	394	150	458
WP	Bellanwila–Pillewa–Attidiya Marshes	I	23689AGIL	336	324	202
WP	Bolgoda System		2AG	490	237	1,340
WP	Colombo Harbour to Kelani Estuary		589	1,152		29
WP	Kotte Marshes		2381			358
WP	Maharagama		89GI		44	
WP	Talangama Tank		89GI	321	340	247

Province¹: CP – Central Province, EP – Eastern Province, NCP – North Central Province, NP, Northern Province, NWP – North Western Province, SP –Southern Province, SABP – Sabaragamuwa Province, UVAP – UVA Province, WP – Western Province.

Status²: R – Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pl – part of an Wetland IBA identified by BirdLife International (2005).

Threats³: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 19: Waterbird species counts reported during the AWC in Sri Lanka, 2002–200	I species counts reported during the AWC in Sri Lanka, 2002–2004
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English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		230	701	333
Spot-billed Pelican	Pelecanus philippensis	VU	848	548	558
Great Cormorant	Phalacrocorax carbo		163	12	93
Indian Cormorant	Phalacrocorax fuscicollis		2,263	3,531	3,051
Little Cormorant	Phalacrocorax niger		3,803	4,352	3,526
unidentified cormorants	Phalacrocoracidae spp.		3,674	1,383	8,272
Oriental Darter	Anhinga melanogaster	NT	136	167	71
Grey Heron	Ardea cinerea		537	279	445
Eastern White Egret	Ardea modesta		614	875	795
Intermediate Egret	Ardea intermedia		308	613	350
Purple Heron	Ardea purpurea		133	200	152
Cattle Egret	Ardea (Bubulcus) ibis		8,133	14,840	20,858
Green-backed Heron	Butorides striatus		21	11	14
Indian Pond Heron	Ardeola grayii		1,661	2,506	2,742
Little Egret	Egretta garzetta		1,693	1,962	1,793

English Name	Scientific Name	GTS ¹	2002	2003	2004
Western Reef Egret	Egretta gularis		1	4	
unidentified egrets	Egretta/Bubulcus spp.		50	724	542
Black-crowned Night-heron	Nycticorax nycticorax		193	118	70
Yellow Bittern	Ixobrychus sinensis		41	69	35
Cinnamon Bittern	Ixobrychus cinnamomeus		1	5	1
Black Bittern unidentified Ardeidae	Ixobrychus flavicollis		20 23	78 36	24
Painted Stork	Ardeidae spp. Mycteria leucocephala	NT	470	475	527
Asian Openbill	Anastomus oscitans	INT	1,334	1,500	5,078
Woolly-necked Stork	Ciconia episcopus		33	29	27
Black-necked Stork	Ephippiorhynchus asiaticus	NT	1		
Lesser Adjutant	Leptoptilos javanicus	VU	3	7	6
Black-headed Ibis	Threskiornis melanocephalus	NT	1,675	854	1,538
Glossy Ibis	Plegadis falcinellus		14		14
Eurasian Spoonbill	Platalea leucorodia		73	315	240
Greater Flamingo	Phoenicopterus ruber		4,394	6,410	
Lesser Whistling Duck	Dendrocygna javanica		2,941	2,824	1,661
Comb Duck	Sarkidiornis melanotos			1	45
Cotton Pygmy Goose	Nettapus coromandelianus		25	57	15
Eurasian Wigeon	Anas penelope		1,937	6,346	14,581 258
Common Teal Spot-billed Duck	Anas crecca Anas poecilorhyncha		2	<u>58</u> 47	258
Northern Pintail	Anas acuta		6,903	107,258	34,488
Garganey	Anas querquedula		6,791	11,123	15,838
Northern Shoveler	Anas clypeata		746	792	2,022
unidentified ducks	Anatinae spp.		16,483	12,010	1,166
White-breasted Waterhen	Amaurornis phoenicurus		114	236	218
Ruddy-breasted Crake	Porzana fusca			2	
Watercock	Gallicrex cinerea		12	30	8
Purple Swamphen	Porphyrio porphyrio		601	2,053	888
Common Moorhen	Gallinula chloropus		33	129	32
Common Coot	Fulica atra			160	95
Pheasant-tailed Jacana	Hydrophasianus chirurgus		472	1,297	530
Greater Painted Snipe	Rostratula benghalensis			2	2
Crab Plover	Dromas ardeola		3	34	8
Eurasian Oystercatcher	Haematopus ostralegus			4	
Black-winged Stilt	Himantopus himantopus		5,466	2,041	3,725
Pied Avocet	Recurvirostra avosetta		40	150	2
Stone Curlew	Burhinus oedicnemus Burhinus (Esacus) recurvirostris		<u>12</u> 59	2 37	<u>19</u> 68
Great Thick-knee Indian Courser	Cursorius coromandelicus		59	<u> </u>	68
Collared Pratincole	Glareola pratincola			1	9
Oriental Pratincole	Glareola maldivarum				17
Small Pratincole	Glareola lactea		10	42	101
Yellow-wattled Lapwing	Vanellus malabaricus		92	55	57
Grey-headed Lapwing	Vanellus cinereus			1	
Red-wattled Lapwing	Vanellus indicus		419	453	585
Pacific Golden Plover	Pluvialis fulva		954	351	879
Grey Plover	Pluvialis squatarola		63	19	64
Great Ringed Plover	Charadrius hiaticula		2		1
Little Ringed Plover	Charadrius dubius		103	13	236
Kentish Plover	Charadrius alexandrinus		387	279	543
Lesser Sandplover	Charadrius mongolus		4,521	2,331	6,119
Greater Sandplover	Charadrius leschenaultii		13	69	16
Pintail Snipe	Gallinago stenura		79	28	63
Common Snipe	Gallinago gallinago	NIT	0.000	1	7 000
Black-tailed Godwit Bar-tailed Godwit	Limosa limosa Limosa lapponica	NT	3,082	5,775	7,688
Whimbrel	Numenius phaeopus		<u> </u>	<u>17</u> 57	<u>1</u> 30
Eurasian Curlew	Numenius arguata		134	91	109
Spotted Redshank	Tringa erythropus		104	1	105
Common Redshank	Tringa totanus		551	279	1,467
Marsh Sandpiper	Tringa stagnatilis		1,394	623	9,343
Common Greenshank	Tringa nebularia		85	21	122
Green Sandpiper	Tringa ochropus		8	8	3
Wood Sandpiper	Tringa glareola		225	215	171
Terek Sandpiper	Xenus cinereus		16	41	22
Common Sandpiper	Actitis hypoleucos		95	129	136
Ruddy Turnstone	Arenaria interpres		173	118	111
Red Knot	Calidris canutus			25	
Great Knot	Calidris tenuirostris		4	32	32
Sanderling	Calidris alba		85	57	22

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Stint	Calidris minuta		5,972	1,011	13,098
Temminck's Stint	Calidris temminckii		7		1
Curlew Sandpiper	Calidris ferruginea		3,323	1,015	22,784
Broad-billed Sandpiper	Limicola falcinellus		69		71
Ruff	Philomachus pugnax		8	4	8
Red-necked Phalarope	Phalaropus lobatus		2	2	1
unidentified shorebirds	Charadrii spp.		105,544	11,097	28,864
Heuglin's Gull	Larus heuglini			870	1,101
Great Black-headed (Pallas's) Gull	Larus ichthyaetus		93	2,149	1,670
Brown-headed Gull	Larus brunnicephalus		1,525	443	370
Common Black-headed Gull	Larus ridibundus			2	
unidentified gulls	Laridae spp.		11	261	
Gull-billed Tern	Gelochelidon nilotica		825	1,011	561
Caspian Tern	Sterna caspia		259	455	661
Lesser Crested Tern	Sterna bengalensis		3,390	26,288	37
Sandwich Tern	Sterna sandvicensis		1	40	
(Greater) Crested Tern	Sterna bergii		247	13,946	237
Common Tern	Sterna hirundo		3,711	355	9
Little Tern	Sterna albifrons		2,064	119	204
Bridled Tern	Sterna anaethetus				20
Whiskered Tern	Chlidonias hybridus		4,647	4,713	6,056
White-winged Black Tern	Chlidonias leucopterus		512	7	26
unidentified terns	Sterninae spp.		433	645	6,171
Total Waterbirds			220,342	264,862	236,689
Osprey*	Pandion haliaetus				2
Black Kite	Milvus migrans		6		
Brahminy Kite*	Haliastur indus		167	26	136
White-bellied Fish-eagle*	Haliaeetus leucogaster		22	3	30
Grey-headed Fish-eagle*	Ichthyophaga ichthyaetus	NT	8	2	10
Crested Serpent-eagle	Spilornis cheela				2
Pallid Harrier*	Circus macrourus	NT	6	1	
Montagu's Harrier*	Circus pygargus		2		1
Western Marsh Harrier*	Circus aeruginosus		1	1	4
Changeable Hawk-eagle	Spizaetus cirrhatus				1
Common Kingfisher	Alcedo atthis		1		
Pied Kingfisher	Ceryle rudis		2		

 GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.
 * – For other waterbirds, the Ceylon Bird Club counting effort focuses only the species marked * during the AWC. The Club does not take account of other raptor species and kingfishers in their work, although some counters record them on the count sheets and these are reported here.

3.3 Southeast Asia

3.3.1 Overview

A total of 408 sites were surveyed during 2002 and 2004 (Figure 14 and Table 20). Waterbird totals recorded were 307,319 (202 sites), 272,061 (243 sites) and 466,403 (180 sites) in AWC 2002, 2003 and 2004, respectively. Of the sites surveyed by the AWC, 11 were Ramsar sites, 58 IBAs, five EAAF Waterbird network sites, one World Heritage Site and three MAB Biosphere Reserves. Four sites recorded more than 20,000 waterbirds. Sixty-two sites recorded more than 1% of the biogeographic population of at least one waterbird species.

Totals of 180 waterbird and 30 wetland-dependent species (including two seabird, 14 raptor, 10 kingfisher and four wagtail species) were recorded. The highest count totals of the most numerous species (more than 10,000 birds) were Lesser Whistling Duck (110,146 in 2004), Asian Openbill (55,336 in 2004), Little Egret (22,433 in 2004), Cattle Egret (22,120 in 2003), Common Coot (19,655 in 2002), Tufted Duck (16,946 in 2002), Whiskered Tern (12,674 in 2004), Indian Cormorant (11,250 in 2004), Cotton Pygmy Goose (10,854 in 2004), Brown-headed Gull (10,632 in 2003) and Common Tern (10,446 in 2004).

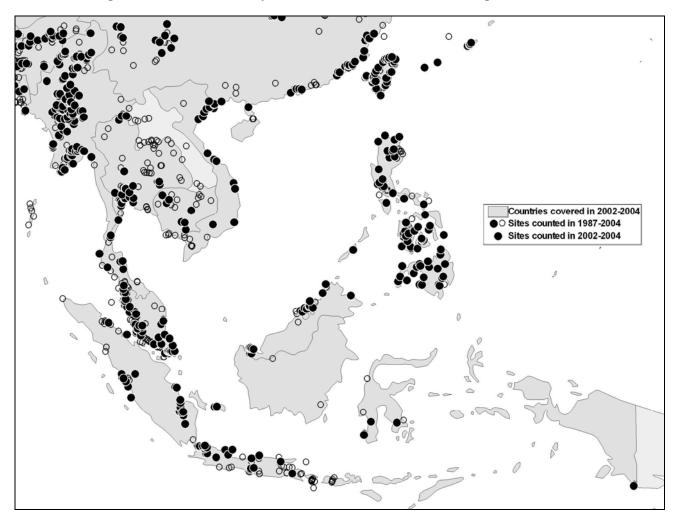


Figure 14: Sites covered by the AWC in the Southeast Asia region, 1987–2004

The highest count totals of 22 globally threatened species were as follows: Critically Endangered: Whiteshouldered Ibis (2 in 2004) and Christmas Island Frigatebird (700 in 2003); Endangered: White-bellied Heron (1 in 2002), Storm's Stork (16 in 2002), Greater Adjutant (84 in 2004), Black-faced Spoonbill (68 in 2003), White-winged Duck (11 in 2003), Nordmann's Greenshank (74 in 2004) and Spoon-billed Sandpiper (4 in 2004); Vulnerable: Spot-billed Pelican (2,909 in 2004), Chinese Egret (1,003 in 2004), Milky Stork (133 in 2002), Lesser Adjutant (315 in 2003), Philippine Duck (4,632 in 2004), Baer's Pochard (7 in 2002), Sarus Crane (248 in 2004), Masked Finfoot (3 in 2004), Wood Snipe (1 in 2002 and 2003), Saunders's Gull (9 in 2002), Indian Skimmer (2 in 2003), Greater Spotted Eagle (12 in 2002) and Imperial Eagle (1 in 2002).

Highest count totals of 15 Near Threatened species were: Oriental Darter (2,100 in 2003), Painted Stork (1,948 in 2004), Black-necked Stork (16 in 2002), Black-headed Ibis (387 in 2004), Falcated Duck (9 in 2002), Ferruginous Duck (3,213 in 2002), Javan Plover (10 in 2003), Malaysian Plover (32 in 2004), Asian Dowitcher (532 in 2002), Black-tailed Godwit (1,700 in 2004), Black-bellied Tern (37 in 2004), White-tailed Eagle (11 in 2004), Grey-headed Fish-eagle (22 in 2004), Lesser Fish-eagle (6 in 2002) and Blyth's Kingfisher (1 in 2003).

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		832	549	2,022
Great Crested Grebe	Podiceps cristatus		37	27	66
Horned Grebe	Podiceps auritus		1		
Black-necked Grebe	Podiceps nigricollis		7		
Spot-billed Pelican	Pelecanus philippensis	VU	1,542	2,711	2,909
Australian Pelican	Pelecanus conspicillatus		,	1	2
unidentified pelicans	Pelecanidae spp.			1	
Little Black Cormorant	Phalacrocorax sulcirostris		3,170	5	
Great Cormorant	Phalacrocorax carbo		1,958	1,928	2,362
Indian Cormorant	Phalacrocorax fuscicollis		2,436	7,362	11,250
Little Pied Cormorant	Phalacrocorax melanoleucos		_1	2	1
Little Cormorant	Phalacrocorax niger		3,601	7,278	7,770
unidentified cormorants	Phalacrocoracidae spp.		3,072	3,669	166
Oriental Darter	Anhinga melanogaster	NT	486	2,100	1,361
Grey Heron	Ardea cinerea		1,315	1.730	3,112
Eastern White Egret	Ardea modesta		2,208	4,281	9,868
Intermediate Egret	Ardea intermedia		4,495	2,281	8,892
White-bellied (Imperial) Heron	Ardea insignis	EN	1	2,201	0,002
Great-billed Heron	Ardea sumatrana		7	42	8
Purple Heron	Ardea purpurea		1,573	1,302	1,101
Cattle Egret	Ardea (Bubulcus) ibis		14,511	22.120	14,855
Green-backed Heron	Butorides striatus		258	450	518
Indian Pond Heron	Ardeola grayii		304	75	7
Chinese Pond Heron	Ardeola grayii Ardeola bacchus		2,004	3,379	3,296
Javan Pond Heron	Ardeola speciosa		179	235	232
unidentified pond herons	Ardeola speciosa		1,654	3,047	1,278
Little Egret	Egretta garzetta		13,391	9,295	22,433
Chinese Egret	Egretta eulophotes	VU	184	398	1.003
Eastern Reef Heron	Egretta sacra	V U	69	114	242
unidentified egrets	Egretta/Bubulcus spp.		803	880	396
Black-crowned Night-heron	Nycticorax nycticorax		2,692	7,267	3,501
Rufous Night-heron	Nycticorax caledonicus		2,092	331	3,501
Eurasian Bittern	Botaurus stellaris		1	2	1
Yellow Bittern	Ixobrychus sinensis		72	91	227
Schrenck's Bittern			1	91	4
Cinnamon Bittern	Ixobrychus eurhythmus Ixobrychus cinnamomeus		111	73	99
Black Bittern			58	14	<u>99</u> 51
unidentified bitterns	Ixobrychus flavicollis		1	14	51
unidentified Ardeidae	Ixobrychus spp.			4 104	3,876
	Ardeidae spp.	VU	<u>9,397</u> 133	<u>4,184</u> 42	,
Milky Stork	Mycteria cinerea				10
Painted Stork	Mycteria leucocephala	NT	1,680	1,077	1,948
Asian Openbill	Anastomus oscitans		3,395	3,257	55,336
Black Stork	Ciconia nigra		238	32	156
Woolly-necked Stork	Ciconia episcopus		40	58	125
Storm's Stork	Ciconia stormi	EN	16		13
Black-necked Stork	Ephippiorhynchus asiaticus	NT	16	4	6
Greater Adjutant	Leptoptilos dubius	EN	21	12	84
Lesser Adjutant	Leptoptilos javanicus	VU	271	315	281
unidentified storks	Ciconiidae spp.		363	2	7
Black-headed Ibis	Threskiornis melanocephalus	NT	264	213	387
White-shouldered Ibis	Pseudibis davisoni	CR			2
Glossy Ibis	Plegadis falcinellus		768	411	42
Eurasian Spoonbill	Platalea leucorodia		1	2	
Black-faced Spoonbill	Platalea minor	EN	55	68	63
Fulvous Whistling Duck	Dendrocygna bicolor		1		
Wandering Whistling Duck	Dendrocygna arcuata		7,638	1,574	4,158
Lesser Whistling Duck	Dendrocygna javanica		50,806	46,740	110,146

Table 20: Waterbird species counts reported during the AWC in Southeast Asia, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Greylag Goose	Anser anser		348	516	716
Bar-headed Goose	Anser indicus		988	3,583	2,979
Ruddy Shelduck	Tadorna ferruginea		4,054	5,271	7,483
Common Shelduck	Tadorna tadorna		33	8	24
Radjah Shelduck	Tadorna radjah		68	4.4	
White-winged Duck Comb Duck	Cairina scutulata Sarkidiornis melanotos	EN	<u> </u>	<u>11</u> 4	5 503
Cotton Pygmy Goose	Nettapus coromandelianus		3,006	699	10,854
Mandarin Duck	Aix galericulata		5,000	033	2
Eurasian Wigeon	Anas penelope		1,615	570	226
Falcated Duck	Anas falcata	NT	9	3	7
Gadwall	Anas strepera		2,048	2,543	2,404
Common Teal	Anas crecca		1,283	334	459
Sunda Teal	Anas gibberifrons		71	9	
Mallard	Anas platyrhynchos		39	62	231
Spot-billed Duck	Anas poecilorhyncha		4,943	943	2,239
Pacific Black Duck	Anas superciliosa		4	4	2
Philippine Duck	Anas luzonica	VU	3,621	2,334	4,632
Northern Pintail	Anas acuta Anas querquedula		<u>1,156</u> 3.411	2,578	7,426
Garganey Northern Shoveler	Anas clypeata		3,090	2,191 2,121	3,284
Red-crested Pochard	Netta rufina		<u> </u>	30	<u> </u>
Common Pochard	Aythya ferina		2,751	569	741
Baer's Pochard	Aythya baeri	VU	7	000	2
Ferruginous Duck	Aythya nyroca	NT	3,213	988	1,077
Tufted Duck	Aythya fuligula		16,946	5,419	7,393
Common Goldeneye	Bucephala clangula		1	4	8
Goosander	Mergus merganser		117	89	102
unidentified ducks	Anatinae spp.		7,716	1,482	659
Sarus Crane	Grus antigone	VU	224	3	248
Common Crane	Grus grus		1,157	1,533	3,394
unidentified cranes	Gruidae spp.			3	
Red-legged Crake	Rallina fasciata		111	66	
Barred Rail	Gallirallus torquatus		36	12	359
Buff-banded Rail	Gallirallus philippensis		52	15	98
Slaty-breasted Rail	Gallirallus striatus		9	14	20
Water Rail Brown Crake	Rallus aquaticus		46	36 1	6
Black-tailed (Elwes's) Crake	Amaurornis akool Amaurornis bicolor			2	2
White-breasted Waterhen	Amaurornis phoenicurus		1,199	460	464
Baillon's Crake	Porzana pusilla		10	17	+0+
Ruddy-breasted Crake	Porzana fusca		30	28	303
White-browed Crake	Porzana cinereus		136	44	49
Watercock	Gallicrex cinerea		349	316	112
Purple Swamphen	Porphyrio porphyrio		4,368	5,458	5,031
Common Moorhen	Gallinula chloropus		716	1,098	1,265
Dusky Moorhen	Gallinula tenebrosa			12	10
Common Coot	Fulica atra		19,655	976	2,017
unidentified rails	Rallidae spp.		120	96	14
Masked Finfoot	Heliopais personata	VU	2	1	3
Pheasant-tailed Jacana	Hydrophasianus chirurgus		1,067	733	1,069
Bronze-winged Jacana	Metopidius indicus		449	278	356
unidentified jacanas	Jacanidae spp.		10	7	50
Greater Painted Snipe	Rostratula benghalensis		13	15	53
Australian Pied Oystercatcher	Haematopus longirostris		<u>3</u> 19		
Ibisbill Block wingod Stilt	Ibidorhyncha struthersii Himantopus himantopus			2.075	2 150
Black-winged Stilt Great Thick-knee	Burhinus (Esacus) recurvirostris		2,085	2,075	<u>3,159</u> 14
Oriental Pratincole	Glareola maldivarum		17	7	404
Small Pratincole	Glareola lactea		1,160	2,920	3,967
Northern Lapwing	Vanellus vanellus		10	2,020	6
River Lapwing	Vanellus duvaucelli		40	78	58
Grey-headed Lapwing	Vanellus cinereus		267	89	151
Red-wattled Lapwing	Vanellus indicus		188	304	346
unidentified lapwings	Vanellus spp.			100	
Pacific Golden Plover	Pluvialis fulva		2,023	3,104	2,576
Grey Plover	Pluvialis squatarola		1,499	2,355	1,803
Long-billed Plover	Charadrius placidus			8	10
Little Ringed Plover	Charadrius dubius		878	694	1,062
Kentish Plover	Charadrius alexandrinus		2,138	2,281	3,564
Javan Plover	Charadrius javanicus	NT	5	10	
Malaysian Plover	Charadrius peronii	NT	6	30	32

unidentified Calidris sandpipers Calidris spp. 3 365 75 Red-necked Phalarope Phalaropus lobatus 4 2 unidentified shorebirds Charadrii spp. 8,181 3,978 6,442 Common (Mew) Gull Larus canus 3 20 Herring Gull Larus argentatus 395 655 6 Heuglin's Gull Larus regentatus 395 655 6 Yellow-legged Gull Larus cachinnans 2 2 2 Great Black-headed (Pallas's) Gull Larus ridibundus 2,359 1,131 1,803 Slender-billed Gull Larus saundersi VU 9 2 2 unidentified gulls Larus saundersi 40 136 147 Lesser Crested Tern	English Name	Scientific Name	GTS ¹	2002	2003	2004
Oriental Prover Charadria sepon 963 4.143 2.575 Eurasian Woodcock Sonkpar xutocola 1 1 1 Wood Snipe Gallinggo statuta 1 1 1 Wood Snipe Gallinggo statuta 32 69 120 Pinala Snipe Gallinggo statuta 32 69 120 Unatal Snipe Gallinggo statuta 32 69 120 Undentified Taxas Gallinggo statuta 408 208 401 undentified Taxas Final Snipe Gallinggo statuta 4033 1.631 1.700 Barchaled Godvit Limosa Biogonica 4.053 1.070 1.320 1.651 624 Winnbred Numerius minutus 110 65 624 2.156 2.115 1.157 2.155 7.11 3.11 1.157 2.155 2.115 2.155 2.115 2.155 2.155 2.155 2.155 2.155 2.155 2.155 2.155 2.155 2.157 2.155				,		,
unidentified Charabrics population 963 4.143 2.576 Lensalan Woodch Society xustocio 1 1 1 Sotiaty Snipe Galimago sotiaria 1 1 1 Sotiaty Snipe Galimago tenura 32 59 120 Sotiaty Snipe Galimago tenura 32 59 120 Sotiaty Snipe Galimago tenura 32 59 120 Common Snipe Galimago tenura 32 59 140 Common Snipe Galimago tenugation 100 68 141 1700 Barbialied Godwit Limosa tenus NT 885 1.431 1700 1.320 Unidentified godwits Limosa spoporica 4.063 1.070 1.320 1.157 Eurasian Curlew Numenius anguata 110 505 624 1.001 1.157 Eurasian Curlew Numenius anguata 117 1.301 1.157 1.551 1.555 2.552 2.555 2.557 2.557 2.557				777	•	1,206
Eurasian Woodcock Scolopax rusicola 1 1 Wood Snipe Gallinago nemoricola VU 1 1 Wood Snipe Gallinago nemoricola VU 1 1 Common Snipe Gallinago negala					-	
Solitary Snipe Gallingop connolocida VU 1 Vindo Singe Gallingop sterura 32 99 120 Vindo Singe Gallingop sterura 32 99 120 Common Singe Gallingop megala 11 1 11 Common Singe Gallingop sterura NT 533 16 44 Asan Downkher Limodornus serialimitus NT 533 16 46 Marchand Godord Limosa serialimitus NT 533 16 46 Marchand Godord Limosa serialimitus NT 533 16 46 Marchand Godord Limosa serialimitus 110 565 624 Whinbrei Numerius mutus 110 565 624 Whinbrei Numerius seriutus 108 155 423 Control Redwink Tringa participus 108 155 423 Marchand Sandpiper Tringa participus 108 156 424 Marchand Sandpiper Tringa partic					4,143	
Wood Snipe Gallinggo senura YU 1 1 Swinhoe's Snipe Gallinggo senura 32 69 120 Swinhoe's Snipe Gallinggo senura 32 69 120 Common Snipe Gallinggo gallago 408 268 401 Unidentified snipe Gallinggo gallago 408 268 1431 Black-lated Godwit Limosa lagonita 4152 139 446 Black-lated Godwit Limosa lagonita 4152 130 132 Black-lated Godwit Limosa lagonita 4152 230 2156 Eurasian Curlew Numenius manus 110 556 423 Eurasian Curlew Numenius madogasoninnsis 30 206 20 Unidentified curlews Numenius madogasoninnsis 30 206 468 684 Spittel RedShank Tringa catoganis 1,333 3,167 3,170 Common Stephaper Tringa catoganis 1,267 1,755 2,685 Common Stephank Tri				· ·		11
Pintal Snipe Gallinago senura 32 59 120 Common Snipe Gallinago gallinago 408 208 401 Common Snipe Gallinago gallinago 408 208 401 Asian Dowitcher Linnosa insponiea NT 532 19 46 Asian Dowitcher Linnosa insponiea 4.053 1.070 1.320 Bart-Lailed Godwit Linnosa insponiea 4.053 1.070 1.320 Undertified Godwit Linnosa insponiea 1.042 2.366 6.24 Undertified Godwit Linnosa insponiea 1.242 2.366 6.24 Undertified Godwit Linnosa insponiea 1.242 2.366 2.168 Venture Numenius madigazoriensis 30 1.021 1.165 4.245 Common Rodwina Tring a conducina 2.248 4.058 6.524 Marsh Sandpiper Tringa stagrathis 1.333 3.167 3.170 3.180 Common Rodwina Tringa stagrathis 1.333 3.161 3			1/11	-	1	
Swinbergs Singe Gallinago megala 11 Unidentified singe Gallinago spin. 104 7.5 44 Asian Dowitcher Limnoodornus sempia/matus NT 532 19 46 Black-laide Godwit Limosa sempia/matus NT 532 19 46 Black-laide Godwit Limosa sepporica 4.063 1.070 1.320 unidentified godwits Limosa spporica 4.122 2.80 2.165 Unidentified carlow Numenius minutus 110 565 624 Whinbrel Numenius mutus 101 565 626 Unidentified carlow Numenius anguta 711 1.301 1.157 Far Eastern Curlew Numenius anguta 711 1.65 411 Madentified singer 194 940 2.05 416 411 Stotal Redshamk Tinga anguta 1.05 416 411 401 403 30 206 1.04 403 30 2.041 201 1.041			VO			120
Common Sinje Galinago galinago 408 401 75 44 Asian Dowitcher Linnosa imoso sopp. 104 75 44 Asian Dowitcher Linnosa imosos NT 532 19 46 Bar-Lailed Godwit Linnosa imosos NT 855 1.431 1.700 Bar-Lailed Godwits Linnosa is gueopica 4.053 1.070 1.320 Liftie Curlew Numenius minutus 110 565 624 Winintrel Numenius anguaga 717 1.031 1.157 Eurasian Curlew Numenius anguaga 717 1.031 1.165 Eurasian Curlew Numenius anguagasciensis 30 200 200 Sonttell Resistank Tringa stegnetilis 1.333 1.165 4.232 Common Resenshank Tringa stegnetilis 1.333 1.06 3.02 Nordenan's Greenshank Tringa glanola 1.034 303 2.061 Vadov Tinga glanola 1.034 303 2.061 1.032 <t< td=""><td></td><td></td><td></td><td>52</td><td></td><td>-</td></t<>				52		-
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White Tern Gygis alba 10				4,509		3,780
	White Tern	Gygis alba			10	

English Name	Scientific Name	GTS	2002	2003	2004
Indian Skimmer	Rynchops albicollis	VU		2	1
Total Waterbirds			307,319	272,061	466,403
Christmas Island Frigatebird	Fregata andrewsi	CR		700	
Lesser Frigatebird	Fregata ariel			2,000	
unidentified frigatebirds	Fregata spp.		2		60
Osprey	Pandion haliaetus		15	12	24
Black-shouldered Kite	Elanus caeruleus		11	7	25
Black Kite	Milvus migrans		114	74	20
Brahminy Kite	Haliastur indus		69	89	181
White-bellied Fish-eagle	Haliaeetus leucogaster		13	15	26
White-tailed Eagle	Haliaeetus albicilla	NT	6	3	11
Lesser Fish-eagle	Ichthyophaga humilis	NT	6	5	
Grey-headed Fish-eagle	Ichthyophaga ichthyaetus	NT	19	15	22
Hen Harrier	Circus cyaneus		9	2	7
Pied Harrier	Circus melanoleucos		28	16	19
Western Marsh Harrier	Circus aeruginosus		69	48	7
Eastern Marsh Harrier	Circus spilinotus		25	8	39
unidentified Harriers	Circus spp.		17		
Greater Spotted Eagle	Aquila clanga	VU	12	1	6
Imperial Eagle	Aquila heliaca	VU	1		
Ruddy Kingfisher	Halcyon coromanda			1	
Stork-billed Kingfisher	Halcyon capensis		8	10	8
White-throated Kingfisher	Halcyon smyrnensis		164	366	75
Black-capped Kingfisher	Halcyon pileata		20	40	4
Collared Kingfisher	Todiramphus chloris		67	48	70
Blue-eared Kingfisher	Alcedo meninting		14	24	3
Blyth's Kingfisher	Alcedo hercules	NT		1	
Common Kingfisher	Alcedo atthis		103	119	44
Small Blue Kingfisher	Alcedo caerulescens				1
Pied Kingfisher	Ceryle rudis		21	24	80
White Wagtail	Motacilla alba		64	108	355
Grey Wagtail	Motacilla cinerea		1	2	19
Citrine Wagtail	Motacilla citreola		18		
Yellow Wagtail	Motacilla flava		5	3	10
unidentified wagtails	Motacilla spp.			3,500	3,000

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.2 Brunei Darussalam

An AWC count was conducted in 2002 only and covered nine sites (Figure 15 and Table 21), three of which were IBAs, as identified by BirdLife International (2005). In total, 654 individuals of 23 waterbird species were recorded (Table 22), the highlights including three Vulnerable Chinese Egrets at Brunei Bay and seven Near Threatened Oriental Darters.

Information on threats to the wetlands was not provided. The count was coordinated by Dr. Pushpa Thambipillai and Prof. Joe Charles of Brunei University.

Site Name	Status ¹	2002
Brunei Bay Mudflats	IBA	19
Luagan Lalak		3
Mentiri Prawn Farm		32
Muara Beach		3
Serasa Beach/Housing		18
Seria–Panaga Main Road		243
Tutong Sewage Tanks		157
Sungai Seria Estuary	IBA	142
Wasan	IBA	40

Note: Status¹: Wetland IBA identified by BirdLife International (2005).

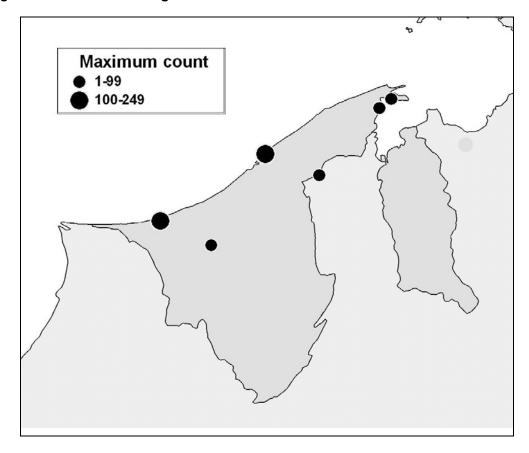




Table 22: Waterbird spec	cies counts reported	during the AWC	in Brunei, 2002

English Name	Scientific Name	GTS ¹	2002
Oriental Darter	Anhinga melanogaster	NT	7
Eastern White Egret	Ardea modesta		111
Intermediate Egret	Ardea intermedia		72
Purple Heron	Ardea purpurea		5
Cattle Egret	Ardea (Bubulcus) ibis		287
Green-backed Heron	Butorides striatus		4
Little Egret	Egretta garzetta		28
Chinese Egret	Egretta eulophotes	VU	3
Eastern Reef Heron	Egretta sacra		5 2
Yellow Bittern	Ixobrychus sinensis		2
Cinnamon Bittern	Ixobrychus cinnamomeus		3
Black Bittern	Ixobrychus flavicollis		2
White-breasted Waterhen	Amaurornis phoenicurus		6
Common Moorhen	Gallinula chloropus		1
Pacific Golden Plover	Pluvialis fulva		4
Little Ringed Plover	Charadrius dubius		34
Kentish Plover	Charadrius alexandrinus		15
Lesser Sandplover	Charadrius mongolus		26
Common Redshank	Tringa totanus		1
Wood Sandpiper	Tringa glareola		2
Common Sandpiper	Actitis hypoleucos		15
Red-necked Stint	Calidris ruficollis		5
Long-toed Stint	Calidris subminuta		16
Total Waterbirds			654
unidentified frigatebirds	Fregata spp.		2
White-bellied Fish-eagle	Haliaeetus leucogaster		1

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): VU – Vulnerable; NT – Near Threatened.

3.3.3 Cambodia

Seven sites were surveyed for AWC 2002–2004, including five IBAs, one World Heritage Site and a MAB Biosphere Reserve (Figure 16 and Table 23). Waterbird totals recorded were 42,210 (5 sites), 26,437 (1 site) and 42,107 (6 sites) respectively. The data were summarised in Goes (2004).

One site, Prek Toal, recorded more than 20,000 waterbirds (26,450 in 2003), and another, Ang Tropeing Thmor Reservoir, recorded 19,985 birds in 2002. Both sites recorded more than 1% of the biogeographic populations of nine species of waterbird.

Totals of 60 species of waterbirds and seven species of raptors were recorded (Table 24). The most numerous species were Lesser Whistling Duck (16,252 in 2002), Indian Cormorant (11,249 in 2004), Whiskered Tern (5,802 in 2004), Asian Openbill (2,479 in 2002), Spot-billed Pelican (2,766 in 2004) and Garganey (2,000 in 2002).

The highest count totals of seven globally threatened species during this period (Table 24) were as follows: Critically Endangered: White-shouldered Ibis (2 in 2004); Endangered: Greater Adjutant (84 in 2002); Vulnerable: Spot-billed Pelican (2,766 in 2004), Milky Stork (3 in 2003), Lesser Adjutant (207 in 2004), Sarus Crane (231 in 2004) and Masked Finfoot (1 in 2002 and 2003). Highest count totals of five Near Threatened species were: Oriental Darter (1,919 in 2003), Painted Stork (1,908 in 2004), Black-necked Stork (2 in 2004), Black-headed Ibis (185 in 2004) and Grey-headed Fish-eagle (13 in 2004).

Major threats reported included changes in the hydrological patterns of the Mekong River, which may cause modification to the structure of flooded forest, fish breeding habitats, and the filling of deep pools with sediment. Other threats include potential land clearance and overuse of natural resources, e.g. fish, building and fuel wood, and illegal harvesting and fishing activities. The Tonle Sap area faces threats such as loss of flooded forest habitat, over-exploitation of fisheries resources and wildlife, exotic pests (Giant Mimosa *Mimosa pigra* and Water Hyacinth *Eichhornia crassipes*) and pollution, mostly from agriculture (pesticides and fertilisers) (Hong Chamnan, pers. comm., Sept. 2006).

The census was coordinated by the Wildlife Conservation Society - Cambodia Program.

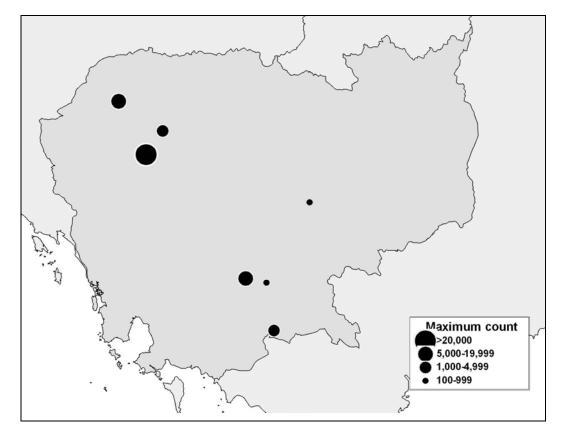


Figure 16: AWC site coverage and numerical distribution of waterbirds in Cambodia, 2002–2004

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Bantey Meanchey	Ang Tropeing Thmor Reservoir (Sarus Crane Reserve)	I	6FIKL	19,985		9,246
Battambang	Prek Toal	I	4FH	18,227	2,6450	24,357
Kampong Thom	Chinit River		81			429
Kandal	Bassac Marshes (Prassat Tuyo Fishing Village)			1,390		
Kandal	Basset Marsh (Samrong Lake)	1	1	463		5,802
Kandal	Boeng Veal Samnap	I	FI			604
Siem Reap	Angkor (West Baray, Angkor Wat and Angkor Thom)	W, M	246GL	2,196		1,688

Table 23: Wetland sites surveyed during the AWC in Cambodia, 2002–2004

Notes:

Status¹: I – Wetland IBA identified by BirdLife International (2005), W – UNESCO World Heritage Site, M –MAB Biosphere Reserve. Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 24: Waterbird species counts reported during the AWC in Cambodia, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		100		41
Spot-billed Pelican	Pelecanus philippensis	VU	1,540	2,691	2,766
Great Cormorant	Phalacrocorax carbo		196	701	889
Indian Cormorant	Phalacrocorax fuscicollis		2,434	7,321	11,249
Little Cormorant	Phalacrocorax niger		1,724	545	1,112
unidentified cormorants	Phalacrocoracidae spp.		3,071	3,664	164
Oriental Darter	Anhinga melanogaster	NT	235	1,919	1,080
Grey Heron	Ardea cinerea		167	230	277
Eastern White Egret	Ardea modesta		236	561	548
Intermediate Egret	Ardea intermedia		184	213	821
Purple Heron	Ardea purpurea		312	390	273
Cattle Egret	Ardea (Bubulcus) ibis		427	2	275
Green-backed Heron	Butorides striatus		7	115	39
				1,721	1054
unidentified pond herons Little Egret	Ardeola spp. Egretta garzetta		<u>1,346</u> 523	290	
			625	290	782
unidentified egrets	Egretta/Bubulcus spp.		544	407	550
Black-crowned Night-heron	Nycticorax nycticorax		-	467	558
Yellow Bittern	Ixobrychus sinensis		1	5	64
Cinnamon Bittern	Ixobrychus cinnamomeus		3		9
Black Bittern	Ixobrychus flavicollis			6	20
unidentified Ardeidae	Ardeidae spp.			1,707	640
Milky Stork	Mycteria cinerea	VU		3	2
Painted Stork	Mycteria leucocephala	NT	1,625	1,040	1,908
Asian Openbill	Anastomus oscitans		2,479	2,451	2,433
Woolly-necked Stork	Ciconia episcopus				34
Black-necked Stork	Ephippiorhynchus asiaticus	NT			2
Greater Adjutant	Leptoptilos dubius	EN	18	9	84
Lesser Adjutant	Leptoptilos javanicus	VU	89	149	207
unidentified storks	Ciconiidae spp.		362		
Black-headed Ibis	Threskiornis melanocephalus	NT	61	86	185
White-shouldered Ibis	Pseudibis davisoni	CR			2
Lesser Whistling Duck	Dendrocygna javanica		16,252		3,670
Comb Duck	Sarkidiornis melanotos		155		502
Cotton Pygmy Goose	Nettapus coromandelianus		1,287	2	909
Spot-billed Duck	Anas poecilorhyncha		6	4	66
Northern Pintail	Anas acuta				1
Garganey	Anas guerguedula		2,000		874
Sarus Crane	Grus antigone	VU	212		231
White-breasted Waterhen	Amaurornis phoenicurus	-	8	5	51
Ruddy-breasted Crake	Porzana fusca		1		286
Watercock	Gallicrex cinerea		1		19
Purple Swamphen	Porphyrio porphyrio		609	24	879
Common Moorhen	Gallinula chloropus		3	95	75
Masked Finfoot	Heliopais personata	VU	1	1	10
Pheasant-tailed Jacana	Hydrophasianus chirurgus	v0	316	1	502
Bronze-winged Jacana	Metopidius indicus		40		124
Black-winged Stilt	Himantopus himantopus		22		35
Oriental Pratincole	1 1		1		35
	Glareola maldivarum		•		4
Grey-headed Lapwing	Vanellus cinereus		5		1
Red-wattled Lapwing	Vanellus indicus		2		

English Name	Scientific Name	GTS	2002	2003	2004
Pacific Golden Plover	Pluvialis fulva		5		
Little Ringed Plover	Charadrius dubius		16		62
Pintail Snipe	Gallinago stenura				2
Common Snipe	Gallinago gallinago		14		178
unidentified snipe	Gallinago spp.		11	20	7
Spotted Redshank	Tringa erythropus				3
Common Redshank	Tringa totanus				17
Marsh Sandpiper	Tringa stagnatilis		2		
Common Greenshank	Tringa nebularia		13		65
Wood Sandpiper	Tringa glareola		13		11
Common Sandpiper	Actitis hypoleucos		1		112
Long-toed Stint	Calidris subminuta				72
Brown-headed Gull	Larus brunnicephalus		49		
Caspian Tern	Sterna caspia				5
Common Tern	Sterna hirundo				8
Whiskered Tern	Chlidonias hybridus		2,856		5,802
Total Waterbirds			42,210	26,437	42,107
Osprey	Pandion haliaetus		2	2	1
Black-shouldered Kite	Elanus caeruleus		1		
Black Kite	Milvus migrans		3		
Brahminy Kite	Haliastur indus		17		5
Grey-headed Fish-eagle	Ichthyophaga ichthyaetus	NT	12	11	13
Pied Harrier	Circus melanoleucos		5		
Eastern Marsh Harrier	Circus spilinotus		11		

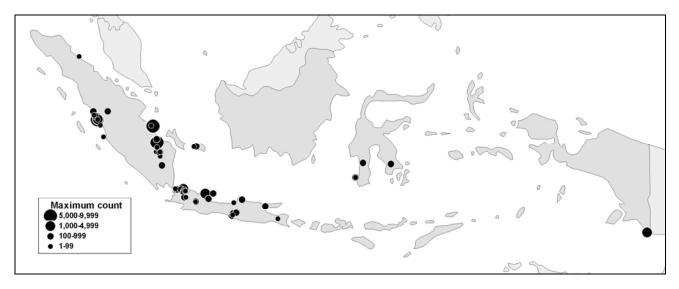
GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.4 Indonesia

Sixty-nine sites, including one Ramsar site and six IBAs, were surveyed at least once in all three years (Figure 17 and Table 25). Waterbird totals recorded were 27,410 (40 sites), 12,623 (34 sites) and 1,369 (14 sites) in 2002, 2003 and 2004 respectively. Three sites recorded more than 1% of the biogeographic population of at least one waterbird species.

A total of 92 waterbird species were recorded in all three years, together with three raptor and four kingfisher species (Table 26). The most numerous species recorded were Cattle Egret (6,928 in 2003), Little Black Cormorant (3,170 in 2002), Bar-tailed Godwit (3,008 in 2002), Common Tern (2,527 in 2002), Lesser Sandplover (1,633 in 2002) and Greater Crested Tern (1,259 in 2002).





The highest count totals of six globally threatened species during this period (Table 26) were as follows: Endangered: Storm's Stork (5 in 2002), White-winged Duck (8 in 2002) and Nordmann's Greenshank (5 in 2002); Vulnerable: Chinese Egret (2 in 2002), Lesser Adjutant (64 in 2002) and Milky Stork (133 in 2002).

Six Near Threatened species were recorded: Oriental Darter (44 in 2002), Black-headed Ibis (15 in 2002), Javan Plover (10 in 2003), Malaysian Plover (5 in 2002), Asian Dowitcher (500 in 2002) and Black-tailed Godwit (658 in 2002).

Major threats to wetlands and waterbirds were fishing, pollution, agriculture and tourism development, hunting of waterbirds, clearance of vegetation and reclamation activities.

The census was coordinated by Wetlands International - Indonesia Office.

Region/Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Bangka-Belitung	Pantai Kelayang		GL			90
Bangka-Belitung	Pantai Serdang		8GIL			31
Bangka-Belitung	Pulau Selat Nasik		EG			100
Banten	Bojonegara		С	86	70	
Banten	Dua Island Nature Reserve		CFL	179		
Banten	Kramat Watu			176	455	
Banten	Kronjo			305	206	
Banten	Sawah Luhur		8CD	213	344	
Banten	Sawah Cikupa (Toll road to Merak)		7CD		54	
Banten	Situ Cipondoh		38ABGL	15	11	
Banten	Tanjung Kait			25	516	
Banten	Tirtayasa			400	672	
Irian Jaya	Pantai Merauke			1,452		
Jakarta	Hutan Kota Kemayoran		2	25		
Jakarta	Kamal Muara (North Coast Java)		4	271		
Jakarta	Muara Angke		2358AIL	78		
Jakarta	Pulau Rambut	I	AB	3,797		
Jakarta	Taman Burung (Bird Park)-TMII		FIL	422	496	
Jambi	Berbak National Park	pR, I		34		
Jambi	Sungai Cemara Beach (Pesisir Pantai Jambi)			8,505		
Java Central	Kompleks TNI Kodam IV	-	4F	-,	50	
Java Central	Pantai Pangkalan		2F		133	
Java Central	Rawa Jombor. Klaten		46GFL		137	235
Java East	Rawa Pulo		6G		74	200
Java East	Tambak Wonorejo		AF	18	451	
Java West	Antapani		7.4	30	101	
Java West	Bukit Sentul		F	7		
Java West	Danau LSI – Kampus IPB		238G	98	164	
Java West	Kiara Condong (Pindad)		2000	200	104	
Java West	Margahayu Raya			82		
Java West	Rawa Sonokeling, Pabrik Gula Jatitujuh		3DF	45	152	
Java West	Sindang Sari		501	5	152	
Java West	Tambak Karang Song		С	1,876		
Java West	Tol Padalarang – Cileunyi		C	9	12	
Jogjakarta	Kebun Binatang Raya Gembira Loka		F	9	23	190
0,			68CEF			190
Jogjakarta	Muara Opak				<u>3</u> 26	
Jogjakarta	Muara Progo		6CDFGL	45	20	
Jogjakarta	Pantai Trisik		289G	15	000	
Lampung	Rawa Pacing		46CFHI	378	298	
Riau	Bangkinang		24GIK		100	
Sulawesi S.E.	Rawa Aopa National Park	!	23CD		249	
Sulawesi S.E.	Sungai Walanae and Danau Tempe		23468FL			174
Sulawesi South	Balang Tonjong		23568CD	53		
Sulawesi South	Rawa Hutan Nipah along Sungai Tello		4689BCD	99		
Sulawesi South	Tanjung (Tg.) Merdeka, Tg. Bayam, Tg. Bunga		268CEKL	107		
Sumatra North	Pantai Cermin – Sungai Perbaungan R.M.		68ADL	83		
Sumatra South	Banyuasin Delta (Banyuasin Peninsula–Sembilang NP)		24GH	5,455	97	
Sumatra South	Ibul Besar – Pegayut		8GI		5	
Sumatra South	Jembatan Musi 2 – Jembatan Ogan		8GI		28	
Sumatra South	Lebak Bayas – Beti – Pampangan		7G			309
Sumatra South	Lebak Danau Teloko – Kayu Agung		4			32
Sumatra South	Lebak Kuro, Pampangan		G			53
Sumatra South	Lebak Meranjae		68EH	85		

Table 25: Wetland sites surveyed during the AWC in Indonesia, 2002–2004

Region/Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Sumatra South	Lebak Pampangan		G			132
Sumatra South	Lebak Rambutan – Pampangan		G			41
Sumatra South	Lebak Tanjung Aur		8G		85	
Sumatra South	Saka Tiga Seberang		8G			9
Sumatra South	Tanjung Api – Api Highway Km 9		68CI	17	9	20
Sumatra South	Tanjung Atap		78G1			27
Sumatra South	Tanjung Serei		8B		362	
Sumatra West	Anau – Painan		6		5	
Sumatra West	Dusun Anau, Desa Simpang Carocok		4F	13		
Sumatra West	Gasan Gadang		1		403	
Sumatra West	Koto Tengah		4KL	20		
Sumatra West	Lunang Silaut		46	7		
Sumatra West	Rimbo Panti Nature Reserve		6C	450		
Sumatra West	Parupuk Tabing		24GIJK	2,288	1,547	
Sumatra West	Patenggangan		J		5,377	
Sumatra West	Ujung Lambung		4G		31	

Notes: Status¹: I – Wetland IBA identified by BirdLife International (2005), Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 26: Waterbird species counts reported during the AWC in Indonesia, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis			12	
Australian Pelican	Pelecanus conspicillatus			1	2
Little Black Cormorant	Phalacrocorax sulcirostris		3,170	5	
Little Pied Cormorant	Phalacrocorax melanoleucos			2	1
Little Cormorant	Phalacrocorax niger		37	81	
unidentified cormorants	Phalacrocoracidae spp.		1		2
Oriental Darter	Anhinga melanogaster	NT	44	11	2
Grey Heron	Ardea cinerea		45	41	183
Eastern White Egret	Ardea modesta		111	105	26
Intermediate Egret	Ardea intermedia		159	46	6
Great-billed Heron	Ardea sumatrana		4	14	1
Purple Heron	Ardea purpurea		89	53	9
Cattle Egret	Ardea (Bubulcus) ibis		3,860	6,982	405
Green-backed Heron	Butorides striatus		37	30	4
Javan Pond Heron	Ardeola speciosa		169	226	55
Little Egret	Egretta garzetta		444	355	53
Chinese Egret	Egretta eulophotes	VU	2		
Eastern Reef Heron	Egretta sacra		3	2	
unidentified egrets	Egretta/Bubulcus spp.		1		
Black-crowned Night-heron	Nycticorax nycticorax		983	601	30
Rufous Night-heron	Nycticorax caledonicus		1		
Yellow Bittern	Ixobrychus sinensis		5	14	26
Schrenck's Bittern	Ixobrychus eurhythmus		1		4
Cinnamon Bittern	Ixobrychus cinnamomeus		37	28	36
Black Bittern	Ixobrychus flavicollis		14		20
unidentified Ardeidae	Ardeidae spp.		20	1.600	6
Milky Stork	Mycteria cinerea	VU	133	31	
Woolly-necked Stork	Ciconia episcopus		7	4	4
Storm's Stork	Ciconia stormi	EN	5		
Lesser Adjutant	Leptoptilos javanicus	VU	64	41	3
unidentified storks	Ciconiidae spp.			1	6
Black-headed Ibis	Threskiornis melanocephalus	NT	15		
Glossy Ibis	Plegadis falcinellus		338	254	2
Wandering Whistling Duck	Dendrocygna arcuata		3	17	42
Lesser Whistling Duck	Dendrocygna javanica		136	12	12
Radjah Shelduck	Tadorna radiah		68		
White-winged Duck	Cairina scutulata	EN	8		
Cotton Pygmy Goose	Nettapus coromandelianus			2	6
Sunda Teal	Anas gibberifrons		71	9	
Pacific Black Duck	Anas superciliosa		4	4	2
unidentified ducks	Anatinae spp.		1		6
Red-legged Crake	Rallina fasciata		•	1	
Buff-banded Rail	Gallirallus philippensis		7		
White-breasted Waterhen	Amaurornis phoenicurus		55	73	17

English Name	Scientific Name	GTS ¹	2002	2003	2004
Baillon's Crake Ruddy-breasted Crake	Porzana pusilla Porzana fusca		2	6	4
White-browed Crake	Porzana cinereus		8	4	9
Watercock	Gallicrex cinerea		ū	·	21
Purple Swamphen	Porphyrio porphyrio		15	5	71
Common Moorhen	Gallinula chloropus		23	28	50
Dusky Moorhen	Gallinula tenebrosa			12	10
unidentified rails	Rallidae spp.			40	14
Pheasant-tailed Jacana	Hydrophasianus chirurgus				6
Bronze-winged Jacana	Metopidius indicus				1
Australian Pied Oystercatcher Black-winged Stilt	Haematopus longirostris Himantopus himantopus		3	4	
Pacific Golden Plover	Pluvialis fulva		105	12	13
Grey Plover	Pluvialis squatarola		29	24	10
Little Ringed Plover	Charadrius dubius		20		
Kentish Plover	Charadrius alexandrinus		6	488	
Javan Plover	Charadrius javanicus	NT	5	10	
Malaysian Plover	Charadrius peronii	NT	5		
Lesser Sandplover	Charadrius mongolus		1,633	5	
Greater Sandplover	Charadrius leschenaultii		156		
Pintail Snipe	Gallinago stenura		2	6	
unidentified snipe	Gallinago spp.		2		
Asian Dowitcher	Limnodromus semipalmatus	NT	500	01	
Black-tailed Godwit Bar-tailed Godwit	Limosa limosa	NT	658 3,008	21	
unidentified godwits	Limosa lapponica Limosa spp.		<u> </u>		
Whimbrel	Numenius phaeopus		111	1	
Eurasian Curlew	Numenius arguata		15	8	
Far Eastern Curlew	Numenius madagascariensis		12		
unidentified curlews	Numenius spp.		418		
Common Redshank	Tringa totanus		157	67	
Marsh Sandpiper	Tringa stagnatilis		220	5	
Common Greenshank	Tringa nebularia		110	16	
Nordmann's Greenshank	Tringa guttifer	EN	5		
Green Sandpiper	Tringa ochropus		20	54	
Wood Sandpiper	Tringa glareola		44	10	
Terek Sandpiper Common Sandpiper	Xenus cinereus		397 80	140	50 49
Grey-tailed Tattler	Actitis hypoleucos Heteroscelus brevipes		6	140	49
Ruddy Turnstone	Arenaria interpres		2		
Red Knot	Calidris canutus		24		
Great Knot	Calidris tenuirostris		426		
Red-necked Stint	Calidris ruficollis		126		
Sharp-tailed Sandpiper	Calidris acuminata		18		
Curlew Sandpiper	Calidris ferruginea		35		
Broad-billed Sandpiper	Limicola falcinellus		4		
Red-necked Phalarope	Phalaropus lobatus		4	-	
unidentified shorebirds	Charadrii spp.		851	1	50
Common Black-headed Gull Gull-billed Tern	Larus ridibundus Gelochelidon nilotica		3		
Lesser Crested Tern	Sterna bengalensis		210 26		
(Greater) Crested Tern	Sterna bergii		1,259	22	30
Black-naped Tern	Sterna sumatrana		1,200	22	20
Common Tern	Sterna hirundo		2,527	691	
Little Tern	Sterna albifrons		102	78	
Whiskered Tern	Chlidonias hybridus		307	197	
White-winged Black Tern	Chlidonias leucopterus		372		
unidentified Sterna terns	Sterna spp.		1,700		
White Tern	Gygis alba			10	
Total Waterbirds	E		27,410	12,623	1,369
unidentified frigatebirds	Fregata spp.			-	60
Black-shouldered Kite	Elanus caeruleus		0	5	5
Brahminy Kite White-bellied Fish-eagle	Haliastur indus		2	<u>1</u> 1	1
White-throated Kingfisher	Haliaeetus leucogaster Halcyon smyrnensis			1	6
Collared Kingfisher	Todiramphus chloris		10	14	1
Common Kingfisher	Alcedo atthis		10	. 7	
Small Blue Kingfisher	Alcedo caerulescens				1
J = -					

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.5 Malaysia

Sixty-one sites were surveyed at least once in all three years (Figure 18 and Table 27). Details of the census have been disseminated as annual reports (Yeap 2002, Yeap *et al.* 2003, 2004).

Waterbird totals recorded were 18,147 (25 sites), 32,532 (43 sites) and 27,867 (42 sites) in 2002, 2003 and 2004 respectively. The sites covered included one Ramsar site, one EAAF Waterbird Network site and seven IBAs. Eight sites recorded more than 1% of the biogeographic population of at least one waterbird species.

Eighty-five waterbird species were recorded in all three years, together with two frigatebird, 11 raptor and seven kingfisher species (Table 28). The most numerous species recorded were Lesser Sandplover (3,283 in 2003 and 3,179 in 2004), Common Redshank (2,630 in 2003 and 2,552 in 2004), Little Egret (2,062 in 2003), Chinese Pond Heron (1,660 in 2003) and Whimbrel (1,649 in 2003).

Highest count totals of eight globally threatened species during this period (Table 28) were as follows: Critically Endangered: Christmas Island Frigatebird (700 at Mantanani Island in 2003); Endangered: Storm's Stork (13 in 2004), Nordmann's Greenshank (31 in 2004) and Spoon-billed Sandpiper (1 in 2002); Vulnerable: Chinese Egret (431 in 2004), Milky Stork (8 in 2003 and 2004), Lesser Adjutant (94 in 2003), Greater Spotted Eagle (7 in 2002) and Imperial Eagle (1 in 2002).

Highest count totals of five Near Threatened species were Oriental Darter (54 in 2002), Malaysian Plover (29 in 2004), Asian Dowitcher (23 in 2004), Black-tailed Godwit (1,347 in 2004) and White-tailed Eagle (1 in 2004). Two Painted Storks reported were free-flying birds from the National Zoo in Kuala Lumpur.

Threats to the wetlands and waterbirds reported were clearance of vegetation, fishing, reclamation, pollution caused by domestic sewage, solid waste, use of pesticides and fertilisers, and hunting.

The census was coordinated by the Malaysian Nature Society.

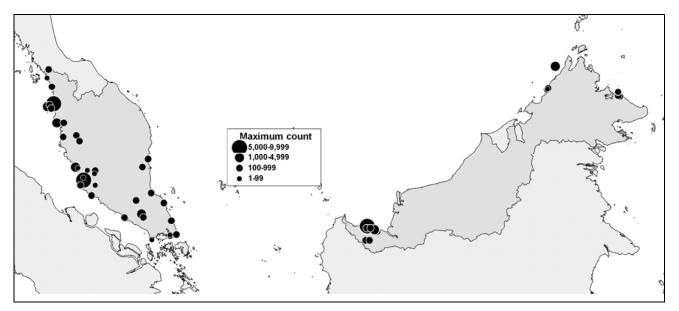


Figure 18: AWC site coverage and numerical distribution of waterbirds in Malaysia, 2002–2004

Table 27: Wetland sites surveyed during the AWC in Malaysia, 2002–2004

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Johor	Institut Jabatan Haiwan Kluang				158	138
Johor	Kg. Punggai				120	221
Johor	Kuala Mersing				567	75
Johor	Kuala Sedili				702	228
Johor	Parit Jawa, Southwest Johor coast	pl	4BG	382	690	255
Johor	Pasir Gogok				10	
Johor	Sungai Balang, Southwest Johor coast	pl	C	106	158	98

State	Site Name	Status ¹	Threats ²	2002	2003	2004
Johor	Sungai Chodan		39GL	36		
Johor	Tanjung Piai, Southwest Johor coast	R, pl	89L		48	
Johor	Tg. Pengelis Penggereng				43	
Johor	Yong Peng Heronry		4	341	335	1,329
Kedah	Kuala Kedah – Kuala Sungai Kangkong Coast		49CDFIK	766	427	
Kuala Lumpur	Plaza Dwitasik, Bandar Seri Permatsuri		4GIL		5	
Kuala Lumpur	Taman Desa Oxidation Pond		1	103	75	192
Kuala Lumpur	Twin Lakes, Bandar Tasik Selatan		46GIL		32	
Melaka	Batang Tiga Ricefields		С	182	24	93
Pahang	Kuala Rompin				57	32
Pahang	Laka Paddy Field				114	280
Pahang	Pekan Pahang				496	176
Pahang	Sungai Galing River Bank		41		212	239
Pahang	Tanjung Sepat		1		39	
Penang	Batu Maung (Batu Uban/Free Trade Zone)		249C			818
Penang	Gurney Dive		2.00			191
Penang	Kuala Bekah (Telok Air Tawar) – Kuala Muda	1	249CFGI	1,959	7,526	4,319
Penang	Mak Mandin	•	49GK	1,000	1,020	1,010
Penang	Pantai Mas (Pantai Acheh Village)		4501	1,014	1,437	
Perak	Chikus			135	325	374
Perak	Kamunting Ex-Mining Pools		459AFGHI	155	206	190
	Kinta Nature Park (Proposed)		439AFGHI	80	447	392
Perak	Kota Bahru			95	447	392
Perak					050	700
Perak	Malim Nawar Ex-Mining Pools		459AEFHI	916	958	728
Perak	Matang Forest and Northern Kuala Gula	I		4,057	1,269	1,015
Perak	Pinji Eastate/Pinji Ponds		1005011/	208		
Perlis	Kuala Perlis – Kuala Sanglang Coast		4CDFGIK	450	63	52
Perlis	Timah – Tasoh Dam		2468CDK	156	43	22
Putrajaya	Putrajaya Wetlands					50
Sabah	Kinabatangan: Kg. Mumiang/Tg. Bidadas	_ I	48ABCDH			461
Sabah	Kinabatangan: Lower Floodplain		24689ABCD	231		112
Sabah	Kinabatangan: Terusan Kinabatangan		2489ABCDH	389		277
Sabah	Kota Kinabalu City (Likas) Bird Sanctuary				49	
Sabah	Likas Lagoon				127	
Sabah	Mantanani Island	<u> </u>	4FHL		2,719	
Sabah	Sembulan				163	
Sarawak	Bako – Buntal Bay and Surrounding Areas		489CDFHKL	1,695	5,998	2,726
Sarawak	K Samarahan – K Sadong (Asajaya–Pendam)		F		2,254	1,474
Sarawak	Kampung Chupak		CDFG	169	311	190
Sarawak	Sejingkat Power Station		4AFGJ		440	564
Sarawak	Semengok Fisheries Centre			189		
Sarawak	Sri Aman Ricefields			39		
Sarawak	Sungai Kera/Rampangi				201	
Selangor	Bandar Tasek Puteri		8			714
Selangor	Berjuntai Mining Pools		4		41	94
Selangor	Kapar Power Station Ash Ponds, North Central (NC)	S, pl	9AI	4,455	8,933	7,657
	Selangor coast	- , -		,	-,	,
Selangor	Kuala Selangor Nature Park, NC Selangor coast	pl	89CDIK	24	18	9
Selangor	Pantai Remis, Jeram, NC Selangor coast	pi	8L			45
Selangor	Pulau Tengah, NC Selangor coast	pl				685
Selangor	Rasa Ex-Mining Ponds	۳۰	GI			34
Selangor	Sekinchan Ricefields, NC Selangor coast	pl	CD			27
Selangor	Sungai Nibong – Sekinchan Coastline, NC Selangor coast	pi pl	55			3,910
Selangor	Tumbuk Estate	Pi	8	545	828	513
	Ulu Yam Mining Pools		6CDI	343	113	192
Selangor			0001		113	192

Status¹: R - Ramsar site, I - Wetland IBA identified by BirdLife International (2005), pl - part of an IBA identified by BirdLife International

(2005), S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway.
Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 28: Waterbird species counts reported during the AWC in Malaysia, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		82	60	144
Oriental Darter	Anhinga melanogaster	NT	54		48
Grey Heron	Ardea cinerea		61	183	933
Eastern White Egret	Ardea modesta		345	397	249

English Name	Scientific Name	GTS ¹	2002	2003	2004
Intermediate Egret	Ardea intermedia		156	80	75
Great-billed Heron	Ardea sumatrana				1
Purple Heron	Ardea purpurea		265	444	301
Cattle Egret	Ardea (Bubulcus) ibis		1,281	642	1,028
Green-backed Heron	Butorides striatus		76	84	161
Chinese Pond Heron	Ardeola bacchus		455 7	1,660	526
Javan Pond Heron unidentified pond herons	Ardeola speciosa Ardeola spp.		108	11	
Little Egret	Egretta garzetta		987	2,062	1,136
Chinese Egret	Egretta eulophotes	VU	2	31	439
Eastern Reef Heron	Egretta sacra		3	5	1
unidentified egrets	Egretta/Bubulcus spp.		1	648	69
Black-crowned Night-heron	Nycticorax nycticorax		270	273	1,362
Rufous Night-heron	Nycticorax caledonicus			4	
Yellow Bittern	Ixobrychus sinensis		18	28	51
Cinnamon Bittern	Ixobrychus cinnamomeus		12	18	22
Black Bittern unidentified bitterns	Ixobrychus flavicollis Ixobrychus spp.		1	1	
unidentified Ardeidae	Ardeidae spp.		605	11	488
Milky Stork	Mycteria cinerea	VU	005	8	8
Painted Stork	Mycteria leucocephala	NT		2	0
Storm's Stork	Ciconia stormi	EN	11	_	13
Lesser Adjutant	Leptoptilos javanicus	VU	79	94	31
Wandering Whistling Duck	Dendrocygna arcuata				22
Lesser Whistling Duck	Dendrocygna javanica		23	34	37
Cotton Pygmy Goose	Nettapus coromandelianus		154	7	2
unidentified ducks	Anatinae spp.		2		
Slaty-breasted Rail	Gallirallus striatus		4	7	15
White-breasted Waterhen Ruddy-breasted Crake	Amaurornis phoenicurus Porzana fusca		<u>120</u> 3	163 3	218 2
White-browed Crake	Porzana iusca Porzana cinereus		40	37	6
Watercock	Gallicrex cinerea		12	6	5
Purple Swamphen	Porphyrio porphyrio		20	38	82
Common Moorhen	Gallinula chloropus		66	66	99
unidentified rails	Rallidae spp.		5	2	
Pheasant-tailed Jacana	Hydrophasianus chirurgus				2
Greater Painted Snipe	Rostratula benghalensis		2	7	7
Black-winged Stilt	Himantopus himantopus		30	44	24
Oriental Pratincole	Glareola maldivarum		1	5	15
Grey-headed Lapwing	Vanellus cinereus		12	1	16
Red-wattled Lapwing Pacific Golden Plover	Vanellus indicus Pluvialis fulva		<u>9</u> 646	<u>79</u> 733	44 1,238
Grey Plover	Pluvialis ruva Pluvialis squatarola		107	583	523
Little Ringed Plover	Charadrius dubius		20	98	147
Kentish Plover	Charadrius alexandrinus		31	71	20
Malaysian Plover	Charadrius peronii	NT	1	18	29
Lesser Sandplover	Charadrius mongolus		866	3,283	3,179
Greater Sandplover	Charadrius leschenaultii		20	1,579	736
unidentified Charadrius plovers	Charadrius spp.		150		
Pintail Snipe	Gallinago stenura		7	13	29
Common Snipe	Gallinago gallinago		2	8	20
unidentified snipe	Gallinago spp.	NT	85	41	5
Asian Dowitcher	Limnodromus semipalmatus	NT NT	100	2	23
Black-tailed Godwit Bar-tailed Godwit	Limosa limosa Limosa lapponica	IN I	108 868	293 589	1,347 787
Whimbrel	Numenius phaeopus		577	1,649	881
Eurasian Curlew	Numenius arguata		556	1,185	866
Far Eastern Curlew	Numenius madagascariensis		18	206	20
unidentified curlews	Numenius spp.				47
Common Redshank	Tringa totanus		1,470	2,630	2,552
Marsh Sandpiper	Tringa stagnatilis		185	543	365
Common Greenshank	Tringa nebularia		275	598	187
Nordmann's Greenshank	Tringa guttifer	EN	2	7	39
Green Sandpiper	Tringa ochropus		1	(00	
Wood Sandpiper	Tringa glareola		72	139	187
Terek Sandpiper	Xenus cinereus		660	287	<u>372</u> 199
Common Sandpiper Grey-tailed Tattler	Actitis hypoleucos Heteroscelus brevipes		<u>139</u> 10	313 2	199
Ruddy Turnstone	Arenaria interpres		37	161	8
Red Knot	Calidris canutus		5	409	14
Great Knot	Calidris tenuirostris		83	1,178	656
Sanderling	Calidris alba				2

English Name	Scientific Name	GTS ¹	2002	2003	2004
Red-necked Stint	Calidris ruficollis		468	996	786
Temminck's Stint	Calidris temminckii		237	1	
Long-toed Stint	Calidris subminuta			74	275
Curlew Sandpiper	Calidris ferruginea		540	1,179	619
Spoon-billed Sandpiper	Eurynorhynchus pygmaeus	EN	1	,	
Broad-billed Sandpiper	Limicola falcinellus		3	50	22
Red-necked Phalarope	Phalaropus lobatus			2	
unidentified shorebirds	Charadrii spp.		1,127	3,545	1,875
Brown-headed Gull	Larus brunnicephalus		176	8	150
Common Black-headed Gull	Larus ridibundus		1		29
unidentified gulls	Laridae spp.			57	
Gull-billed Tern	Gelochelidon nilotica		126	268	274
Caspian Tern	Sterna caspia		6	23	22
Lesser Crested Tern	Sterna bengalensis		445	150	18
(Greater) Crested Tern	Sterna bergii			250	
Black-naped Tern	Sterna sumatrana		2	4	105
Common Tern	Sterna hirundo		140	152	77
Little Tern	Sterna albifrons		80	668	234
Whiskered Tern	Chlidonias hybridus		750	25	28
White-winged Black Tern	Chlidonias leucopterus		394	673	311
unidentified terns	Sterninae spp.		1.268	544	880
Total Waterbirds			18,147	32,532	27,867
Christmas Island Frigatebird	Fregata andrewsi	CR	,	700	
Lesser Frigatebird	Fregata ariel			2,000	
Osprey	Pandion haliaetus			3	1
Black-shouldered Kite	Elanus caeruleus		1	-	10
Black Kite	Milvus migrans		30		
Brahminy Kite	Haliastur indus		39		144
White-bellied Fish-eagle	Haliaeetus leucogaster		11	7	20
White-tailed Eagle	Haliaeetus albicilla	NT			1
Hen Harrier	Circus cyaneus		1		
Pied Harrier	Circus melanoleucos		4		11
					20
Eastern Marsh Harrier	Circus spilinotus		g		
Eastern Marsh Harrier Greater Spotted Fagle	Circus spilinotus Aquila clanga	VU	9		
Greater Spotted Eagle	Aquila clanga	VU	7		3
Greater Spotted Eagle Imperial Eagle	Aquila clanga Aquila heliaca	VU VU	-	1	
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda		7 1	1	
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda Halcyon capensis		7 1 7	1 2	3
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher White-throated Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda Halcyon capensis Halcyon smyrnensis		7 1		3
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher White-throated Kingfisher Black-capped Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda Halcyon capensis Halcyon smyrnensis Halcyon pileata		7 1 7 5	2	3 34 3
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher White-throated Kingfisher Black-capped Kingfisher Collared Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda Halcyon capensis Halcyon smyrnensis Halcyon pileata Todiramphus chloris		7 1 7 5 4	2	3
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher White-throated Kingfisher Black-capped Kingfisher Collared Kingfisher Blue-eared Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda Halcyon capensis Halcyon smyrnensis Halcyon pileata Todiramphus chloris Alcedo meninting		7 1 7 5 4 3	2 1 33	3 34 3 69
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher White-throated Kingfisher Black-capped Kingfisher Collared Kingfisher Blue-eared Kingfisher Common Kingfisher	Aquila clangaAquila heliacaHalcyon coromandaHalcyon capensisHalcyon smyrnensisHalcyon pileataTodiramphus chlorisAlcedo menintingAlcedo atthis		7 1 7 5 4	2	3 34 3 69 6
Greater Spotted Eagle Imperial Eagle Ruddy Kingfisher Stork-billed Kingfisher White-throated Kingfisher Black-capped Kingfisher Collared Kingfisher Blue-eared Kingfisher	Aquila clanga Aquila heliaca Halcyon coromanda Halcyon capensis Halcyon smyrnensis Halcyon pileata Todiramphus chloris Alcedo meninting		7 1 7 5 4 3	2 1 33	3 34 3 69

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.6 Myanmar

A total of 114 sites, including one Ramsar site and 11 IBAs, were surveyed at least once in the 3-year period (Figure 19 and Table 29). Total numbers of waterbirds recorded were 90,016 (49 sites), 77,953 (75 sites) and 58,340 (24 sites) respectively in 2002, 2003 and 2004. Some of the data were summarised in Van der Ven 2002, 2003 and 2004. Indaw-Gyi Lake was the only site that recorded more than 20,000 waterbirds (31,371 in 2002). A total of 17 sites recorded more than 1% of the biogeographic population of at least one waterbird species.

One hundred and thirty-six waterbird species were recorded in all three years, together with 13 raptor and eight kingfisher species (Table 30). The most numerous species recorded were Lesser Whistling Duck (21,951 in 2003), Common Coot (19,359 in 2002), Cattle Egret (8,809 in 2003), Ruddy Shelduck (7,479 in 2004), Northern Pintail (6,665 in 2004), Spot-billed Duck (4,893 in 2002), Small Pratincole (3,767 in 2004), Bar-headed Goose (3,583 in 2003), Purple Swamphen (3,493 in 2003) and Common Crane (3,394 in 2004).

The highest count totals of 11 globally threatened species were as follows: Endangered: White-bellied Heron (1 in 2002), Greater Adjutant (3 in 2002 and 2003) and White-winged Duck (11 in 2004); Vulnerable: Spot-

billed Pelican (140 in 2004), Lesser Adjutant (40 in 2004), Baer's Pochard (4 in 2002), Sarus Crane (17 in 2004), Masked Finfoot (3 in 2004), Wood Snipe (1 in 2002 and 2003), Indian Skimmer (2 in 2003) and Greater Spotted Eagle (5 in 2002).

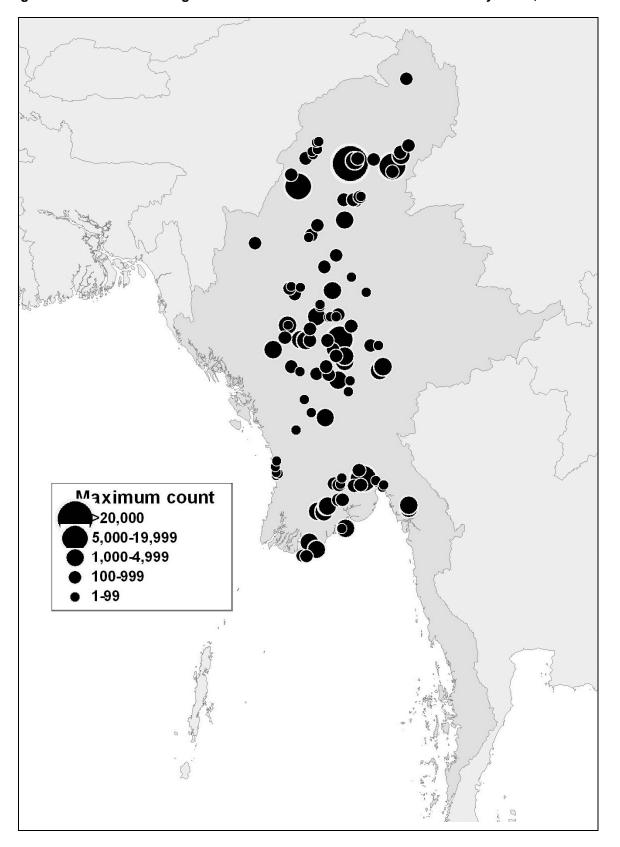


Figure 19: AWC site coverage and numerical distribution of waterbirds in Myanmar, 2002–2004

Highest count totals of 11 Near Threatened species were: Oriental Darter (228 in 2004), Painted Stork (7 in 2004), Black-necked Stork (4 in 2003 and 2004), Black-headed Ibis (201 in 2004), Falcated Duck (7 in 2004), Ferruginous Duck (3,210 in 2002), Black-bellied Tern (37 in 2004), White-tailed Eagle (10 in 2004), Grey-headed Fish-eagle (9 in 2004), Lesser Fish-eagle (6 in 2002) and Blyth's Kingfisher (1 in 2003).

The main threats and issues affecting wetland habitats and waterbirds included drainage of wetlands for agricultural and aquacultural development, and upland reservoir construction, which may affect the natural flooding regime of downstream wetlands; other threats included over-fishing, pollution and hunting.

The census was coordinated by the Myanmar Bird and Nature Society.

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Ayeyarwady	Bobakone Swamp		689HJ		1,547	
Ayeyarwady	Gayetgyi Island (Khat-Tar Island)		78G	580	556	195
Ayeyarwady	Kadonlay Island (Kyuntharyar) (Gadonegalay Island)		38GJ	98	570	
Ayeyarwady	Maletto Lake		48CDFGHJ	2,198		
Ayeyarwady	Ma-U-Pin: Ngapyawkyum, Mazali, Maletto, Hlaing Thar		67CDF		1,871	
Ayeyarwady	Ma-U-Pin: Yelegale, Tarmalo, Aungheite		467CDF		1,024	
Ayeyarwady	Meinmahla Kyun Wildlife Sanctuary		3L	940	3,715	613
Ayeyarwady	Tamalo Inn Lake (Orchid Farm)		4H	1,431		
Bago	Baw Ni Dam				100	
Bago	Kan Ma Inn Lake		2678G		195	
Bago	Kyi Lake		6			69
Bago	Moyingyi Wetland Sanctuary	R, I		6,391	13,289	
Bago	Ngapyat Lake	,	4	,	,	54
Bago	Taung Na Win Dam				1,288	
Bago	North (Myaut) Na Win Dam				41	
Kachin	Byee Lake		3CG			207
Kachin	Indaw R: Changgwa – Kahtangyaung		3BCDH			259
Kachin	Indaw R: Shwetaung – Chaungwa		6CDH			1,821
Kachin	Indaw – Gyi Lake		6BCDHI	31,371	12,648	19,146
Kachin	Irrawaddy R: at Myitkyina		ODODIII	51,571	209	15,140
Kachin	Irrawaddy R: Myitkyina to Sinbo		HFG	8,567	15,067	13,558
Kachin	Nam Lah, Nam Yah Rivers (Rivers around Putao)	•	TIEG	190	15,007	13,330
Kachin	Nam Sam Chaung (Near Ayeyarwady)			190		
Kachin	5, , , , , , , , , , , , , , , , , , ,	I	3	172		E01
Kachin	Sahmaw Xaimaw (Maimaw)		3CD			581
	Yaimaw (Waimaw) Kan-Thar-Yar Lake		G	1,004		1,215
Kayin			1	1,004		
Kayin	Kyaut Ka Lut Lake		-		000	
Magway	Beikthano Lake		FG	574	330	7
Magway	Irrawaddy R: Magwe – Minbu		HK	979	415	
Magway	Kyeoh Lake		FG	183	249	
Magway	Man Stream					17
Magway	Shweyaungtaw Lake		FG	767	71	
Magway	Wetkathay Lake		3CD			30
Magway	Wetthigian (Kan) Lake Wildlife Sanctuary		24679BFGHI	675	3,369	355
Magway	Wun Chaung Reservoir		CD		574	
Mandalay	Chaungmagyi Lake		G		638	
Mandalay	Htein Inn			55		
Mandalay	Irrawaddy R: Pagan–Nyaung U		68HK	332	1,377	
Mandalay	Khat Lan Dam (Khetlan Dam)		HK		50	
Mandalay	Kyar Twinn Lake		4FH	109		
Mandalay	Kye Ni Kan		78H	1,718	1,850	
Mandalay	Kyet Mauk Taung Dam		1	1,217	818	
Mandalay	Lat Pan Pya Dam				2,211	
Mandalay	Lawkananda Wildlife Sanctuary		8G		39	
Mandalay	Minhla-Nyaung Yan Lake		68GJ	6,381		
Mandalay	Me Aung Kan		G	1,375	125	
Mandalay	Mondai Dam			454		
Mandalay	Myauk Pin Le				20	
Mandalay	Myinzin (Kan) Lake		48FHIL	2		
Mandalay	Ngalaik Reservoir		1	4,223	2,700	
Mandalay	Pan Tawa Lake		468FHGJK		614	
Mandalay	Pyaung Pya Reservoir		GK	1,859	735	
Mandalay	Sedawgyi Reservoir		5	59	81	
Mandalay	Shauk Taw Yoe Lake		Н		93	
Mandalay	Taung Pin Le Dam		289G		20	
Mandalay	Thitson Reservoir		2000	733	663	
wanualay				100	003	

Table 29: Wetland sites surveyed during the AWC in Myanmar, 2002–2004

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Mandalay	Wae Laung Dam		GIK	722		
Mandalay	Yesin Reservoir				59	
Mandalay	Yit Lake		678HJ		290	
Mon	Insein Maung Lake		248G		2	
Mon	Inwa Lake		248G		20	
Mon	Sittang Golf Club Lake (near Sittang Paper Mill)		28F		42	
Mon	Sittang River (Theinzayat – Kaywe)		268H		24	
Rakhine	Byaing Kyun Island				27	
Rakhine	Ka Toe Chaung				12	
Rakhine	Kyeintali Stream				7	
Rakhine	Ma Gyi Ngu				7	
Rakhine	Satthwa Stream				6	
Rakhine	Yahaing Kwin Lake				5	
Rakhine	Ya-Hi Kwin Dam				20	
Sagaing	Ahlone In Lake		6G		74	
Sagaing	Chindwin R: Kalewa–Hkamti and to the north		6EH			17,231
Sagaing	Chindwin R: Myitha–Homalin–Kawya–Htamanthi		47EHI		648	, -
Sagaing	Htantaw In Lake		6HK		59	
Sagaing	Indawlay Lake		6ACDFHI	297	100	
Sagaing	Irrawaddy R: Katha and upstream (23 km)		6FH	396	100	
Sagaing	Kabo Weir		6K	25	400	
Sagaing	Kanthayar In Lake		H	25	69	
Sagaing	Kauk Taung Lake		6G		03	250
Sagaing	Khat Tha In Lake		34679FH		156	200
			34679FH		212	
Sagaing	Khaung Khon In Lake					
Sagaing	Komeywa Inn		<u>6K</u>	004	22	
Sagaing	Kye Inn (Within Chatthin Nature Reserve)		G	694	400	
Sagaing	Kyein Lake		K	531	130	
Sagaing	Maha Nandar Lake	I	46CDGK	494	35	
Sagaing	Mayin Lake		3	400		23
Sagaing	Motar Lay (Modalay) Inn		6H	106		
Sagaing	Myittha River		36BCD			561
Sagaing	Nan Ezu Stream (Htamanthi Wildlife Sanc)		G		48	34
Sagaing	Nan Pacon River		1			7
Sagaing	Nan Phi Lin River		E			16
Sagaing	Nga Yant In Lake		G		78	
Sagaing	Pa Du Inn (Badu Inn)		4679CD	549	126	
Sagaing	Pet Let In Lake		6		52	
Sagaing	Swegu Taung In Lake		6GK		183	
Sagaing	Thapanseik Dam		K		75	
Sagaing	Yemyetkyi Inn		467CDFHI	1,556		
Sagaing/ Mandalay	Irrawaddy R: Katha to Tagaung (100 km)			1,143		
Sagaing/ Mandalay	Irrawaddy R: Tagaung to Thabeikkyin (74 km)			451		
Shan	Heho Kan			147		
Shan	Inle (Kan) Lake Wildlife Sanctuary		4678CFHIL	2,298	4,937	
Shan	Inya Kan			78		
Shan	Kimda Dam		27HKL		126	
Shan	Nadi Kan			62		
Shan	Sagar Kan (connected to Inle Kan)			2,486		
Yangon	Gyo Phyu		4G		24	
Yangon	Hlawga Reservoir		4G		322	
Yangon	Hlawga Wildlife Park, Rangoon		L	175	236	
Yangon	Letkok Kon (Let Khoke Kong)		3CDFH	2,704		2,669
Yangon	Nga Moe Yeik		46H	_,. • •	129	_,000
Yangon	Phugyi Reservoir		46G		104	
Yangon	Tabuhla Dam		28FGK		29	
Yangon	Toe Island		36H		25	66
Yangon	U To		6L		852	00
rangon	010		UL		002	

Notes: Status¹: R – Ramsar site, I – Wetland IBA identified by BirdLife International (2005). Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		500	317	85
Great Crested Grebe	Podiceps cristatus		37	27	62
Horned Grebe	Podiceps auritus		1		
Black-necked Grebe	Podiceps nigricollis	VU	7	20	140
Spot-billed Pelican	Pelecanus philippensis	VU	2	20	140
unidentified pelicans Great Cormorant	Pelecanidae spp. Phalacrocorax carbo		1,682	1,087	1,392
Indian Cormorant	Phalacrocorax fuscicollis		2	3	1,392
Little Cormorant	Phalacrocorax niger		1,836	2,753	1,187
unidentified cormorants	Phalacrocoracidae spp.		1,000	5	1,101
Oriental Darter	Anhinga melanogaster	NT	142	170	228
Grey Heron	Ardea cinerea		532	436	274
Eastern White Egret	Ardea modesta		374	416	528
Intermediate Egret	Ardea intermedia		440	429	65
White-bellied (Imperial) Heron	Ardea insignis	EN	1		
Purple Heron	Ardea purpurea		342	190	69
Cattle Egret	Ardea (Bubulcus) ibis		1,291	8,809	900
Green-backed Heron	Butorides striatus		6	5	11
Indian Pond Heron	Ardeola grayii		304	75	7
unidentified pond herons	Ardeola spp.		200	671	72
Little Egret unidentified egrets	Egretta garzetta		<u>1,101</u> 30	973	759
Black-crowned Night-heron	Egretta/Bubulcus spp. Nycticorax nycticorax		26	<u>40</u> 212	284
Yellow Bittern	Ixobrychus sinensis		3	5	204
Cinnamon Bittern	Ixobrychus sinensis			9	2
unidentified Ardeidae	Ardeidae spp.		680	861	670
Painted Stork	Mycteria leucocephala	NT	5		7
Asian Openbill	Anastomus oscitans		911	667	113
Black Stork	Ciconia nigra		238	32	155
Woolly-necked Stork	Ciconia episcopus		24	54	87
Black-necked Stork	Ephippiorhynchus asiaticus	NT	1	4	4
Greater Adjutant	Leptoptilos dubius	EN	3	3	
Lesser Adjutant	Leptoptilos javanicus	VU	34	21	40
unidentified storks	Ciconiidae spp.		1	1	
Black-headed Ibis	Threskiornis melanocephalus	NT	188	127	201
Glossy Ibis Fulvous Whistling Duck	Plegadis falcinellus Dendrocygna bicolor		430	157	20
Lesser Whistling Duck	Dendrocygna javanica		17,278	21,951	7,842
Greylag Goose	Anser anser		348	516	716
Bar-headed Goose	Anser indicus		988	3,583	2,979
Ruddy Shelduck	Tadorna ferruginea		4,054	5,271	7,479
Common Shelduck	Tadorna tadorna		29	8	24
White-winged Duck	Cairina scutulata	EN		11	5
Comb Duck	Sarkidiornis melanotos		14	4	1
Cotton Pygmy Goose	Nettapus coromandelianus		1,220	501	110
Eurasian Wigeon	Anas penelope		215	65	157
Falcated Duck	Anas falcata	NT		2	7
Gadwall	Anas strepera		2,048	2,543	2,402
Common Teal	Anas crecca		778	159	41
Mallard	Anas platyrhynchos		39	62	230
Spot-billed Duck	Anas poecilorhyncha		4,893	929	1,746
Northern Pintail Garganey	Anas acuta Anas querquedula		<u>283</u> 555	<u>1,783</u> 620	<u>6,665</u> 21
Northern Shoveler	Anas querquedula Anas clypeata		454	268	461
Red-crested Pochard	Netta rufina		<u>404</u> 11	30	63
Common Pochard	Aythya ferina		2,751	569	741
Baer's Pochard	Aythya baeri	VU	4	000	1 - 1
Ferruginous Duck	Aythya nyroca	NT	3,210	988	1,031
Tufted Duck	Aythya fuligula		2,090	1,712	2,000
Common Goldeneye	Bucephala clangula		1	4	8
Goosander	Mergus merganser		117	89	102
unidentified ducks	Anatinae spp.		2,548	1,463	
	2 1	VU	12	3	17
Sarus Crane	Grus antigone				
Sarus Crane Common Crane	Grus grus		1,157	1,533	3,394
Sarus Crane Common Crane unidentified cranes	<i>Grus grus</i> Gruidae spp.		1,157	3	3,394
Sarus Crane Common Crane unidentified cranes Red-legged Crake	Grus grus Gruidae spp. Rallina fasciata			3 65	3,394
Sarus Crane Common Crane unidentified cranes Red-legged Crake Slaty-breasted Rail	Grus grus Gruidae spp. Rallina fasciata Gallirallus striatus		1,157 111	3 65 7	3,394
Sarus Crane Common Crane unidentified cranes Red-legged Crake	Grus grus Gruidae spp. Rallina fasciata		1,157	3 65	3,394

English Name	Scientific Name	GTS ¹	2002	2003	2004
White-breasted Waterhen	Amaurornis phoenicurus		474	126	4
Baillon's Crake	Porzana pusilla		2	14	
Ruddy-breasted Crake	Porzana fusca		1		
Watercock	Gallicrex cinerea		310	299	1
Purple Swamphen	Porphyrio porphyrio		3,077	3,493	2,426
Common Moorhen	Gallinula chloropus		270	749	379
Common Coot	Fulica atra		19,359	918	1,787
unidentified rails Masked Finfoot	Rallidae spp. Heliopais personata	VU	111	54	3
Pheasant-tailed Jacana	Hydrophasianus chirurgus	VU	633	614	97
Bronze-winged Jacana	Metopidius indicus		313	168	46
unidentified jacanas	Jacanidae spp.		010	7	-10
Greater Painted Snipe	Rostratula benghalensis		6		
Ibisbill	Ibidorhyncha struthersii		19		
Black-winged Stilt	Himantopus himantopus		519	491	42
Great Thick-knee	Burhinus (Esacus) recurvirostris		3		14
Oriental Pratincole	Glareola maldivarum		15		31
Small Pratincole	Glareola lactea		1,160	2,920	3,767
Northern Lapwing	Vanellus vanellus		4	2	6
River Lapwing	Vanellus duvaucelli		40	78	58
Grey-headed Lapwing	Vanellus cinereus		243	43	50
Red-wattled Lapwing Pacific Golden Plover	Vanellus indicus Pluvialis fulva		132	<u>147</u> 2	14 198
Grey Plover	Pluvialis tuiva Pluvialis squatarola		85	3	23
Long-billed Plover	Charadrius placidus			8	23
Little Ringed Plover	Charadrius dubius		201	150	165
Kentish Plover	Charadrius alexandrinus		57	352	363
Lesser Sandplover	Charadrius mongolus		625	44	853
Greater Sandplover	Charadrius leschenaultii		432	77	000
Eurasian Woodcock	Scolopax rusticola		1		1
Solitary Snipe	Gallinago solitaria		1		1
Wood Snipe	Gallinago nemoricola	VU	1	1	
Pintail Snipe	Gallinago stenura		1	8	4
Swinhoe's Snipe	Gallinago megala				9
Common Snipe	Gallinago gallinago		9	157	26
unidentified snipe	Gallinago spp.		6	14	
Bar-tailed Godwit	Limosa lapponica		101		1
Whimbrel	Numenius phaeopus		6	2	20
Eurasian Curlew	Numenius arquata		73	61	8
unidentified curlews	Numenius spp.		20	100	
Spotted Redshank	Tringa erythropus		18	9	1
Common Redshank	Tringa totanus		168	28	131
Marsh Sandpiper	Tringa stagnatilis			476	4
Common Greenshank	Tringa nebularia		42	22	268
Green Sandpiper	Tringa ochropus		223	5	29
Wood Sandpiper	Tringa glareola		77	163	36
Terek Sandpiper	Xenus cinereus		16	3	40
Common Sandpiper	Actitis hypoleucos		142	233	186
Ruddy Turnstone	Arenaria interpres			60	11 22
Sanderling Red-necked Stint	Calidris alba Calidris ruficollis		5		12
Little Stint	Calidris runcollis Calidris minuta		5		5
Temminck's Stint	Calidris temminckii		74	36	91
Long-toed Stint	Calidris subminuta		, ,	2	12
Curlew Sandpiper	Calidris ferruginea		1	83	31
Broad-billed Sandpiper	Limicola falcinellus		2		25
Ruff	Philomachus pugnax		_		3
unidentified Calidris sandpipers	Calidris spp.			2	
unidentified shorebirds	Charadrii spp.		1,031	242	46
Common (Mew) Gull	Larus canus		3	20	
Herring Gull	Larus argentatus		65	104	
Heuglin's Gull	Larus heuglini		4	4	6
Yellow-legged Gull	Larus cachinnans				1
Great Black-headed (Pallas's) Gull	Larus ichthyaetus		622	160	209
Brown-headed Gull	Larus brunnicephalus		1,239	601	411
Common Black-headed Gull	Larus ridibundus		677	208	214
Slender-billed Gull	Larus genei		1		
unidentified gulls	Laridae spp.		41	60	
Gull-billed Tern	Gelochelidon nilotica		149		4
Caspian Tern	Sterna caspia		11	100	19
River Tern	Sterna aurantia		40	138	357
Common Tern	Sterna hirundo				1

English Name	Scientific Name	GTS	2002	2003	2004
Little Tern	Sterna albifrons		73	460	33
Black-bellied Tern	Sterna melanogaster	NT	14		37
Whiskered Tern	Chlidonias hybridus		69	370	65
White-winged Black Tern	Chlidonias leucopterus		5		20
unidentified terns	Sterninae spp.		325	5	
Indian Skimmer	Rynchops albicollis	VU		2	1
Total Waterbirds			90,016	77,953	58,340
Osprey	Pandion haliaetus		13	5	12
Black-shouldered Kite	Elanus caeruleus		9	1	10
Black Kite	Milvus migrans		81	74	20
Brahminy Kite	Haliastur indus		6	86	24
White-bellied Fish-eagle	Haliaeetus leucogaster		1		
White-tailed Eagle	Haliaeetus albicilla	NT	6	3	10
Lesser Fish-eagle	lchthyophaga humilis	NT	6	5	
Grey-headed Fish-eagle	Ichthyophaga ichthyaetus	NT	7	4	9
Hen Harrier	Circus cyaneus		8	2	7
Pied Harrier	Circus melanoleucos		19	16	8
Western Marsh Harrier	Circus aeruginosus		37	48	7
Eastern Marsh Harrier	Circus spilinotus		4	8	2
unidentified harriers	Circus spp.		17		
Greater Spotted Eagle	Aquila clanga	VU	5	1	3
Stork-billed Kingfisher	Halcyon capensis		1	8	8
White-throated Kingfisher	Halcyon smyrnensis		159	364	35
Black-capped Kingfisher	Halcyon pileata		19	38	1
Collared Kingfisher	Todiramphus chloris			1	
Blue-eared Kingfisher	Alcedo meninting		11	24	3
Blyth's Kingfisher	Alcedo hercules	NT		1	
Common Kingfisher	Alcedo atthis		53	117	23
Pied Kingfisher	Ceryle rudis		21	24	78
White Wagtail	Motacilla alba		64	108	355
Grey Wagtail	Motacilla cinerea		1	2	19
Citrine Wagtail	Motacilla citreola		18		
Yellow Wagtail	Motacilla flava		5	3	8

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.7 The Philippines

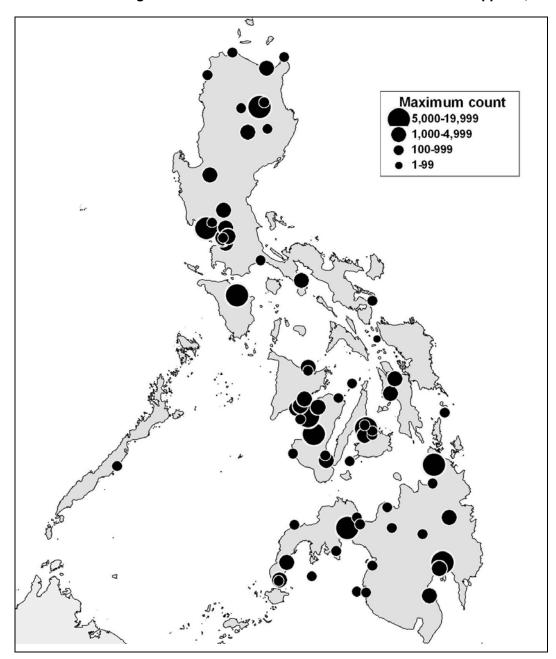
Seventy-two sites were surveyed during 2002–2004 (Figure 20 and Table 31). Total numbers of waterbirds recorded were 83,048 (48 sites), 52,844 (50 sites) and 113,412 (60 sites) in 2002, 2003 and 2004 respectively.

Three Ramsar sites (also IBAs), namely, Agusan Marsh Wildlife Sanctuary, Naujan Lake and Olango Island Wildlife Sanctuary, were surveyed. Naujan Lake and Olango are EAAF Migratory Network sites for Anatidae and shorebirds respectively. In addition, seven IBAs were surveyed, namely Buguey Lagoon, Candaba Swamp, Manila Bay, Pagbilao Bay, Ragay Gulf, Calituban and Tahong Island and Sagay Marine Reserve Area.

Although no site recorded more than 20,000 waterbirds, 22 sites recorded more than 1% of the biogeographic population of at least one waterbird species.

Eighty-four species of waterbirds, two raptor and two kingfisher species were recorded (Table 32). The most numerous species were Tufted Duck (14,853 in 2002), Little Egret (13,742 in 2004), Common Tern (10,174 in 2004), Wandering Whistling Duck (7,635 in 2002), Whiskered Tern (6,525 in 2004) and Cattle Egret (5,691 in 2004).

The globally threatened species recorded were the Vulnerable Chinese Egret (highest count 563 in 2004) and Philippine Duck (4,632 in 2004). Near Threatened species recorded were Asian Dowitcher (32 in 2002) and Black-tailed Godwit (816 in 2003).





Major threats to wetlands in the Philippines reported include:

- habitat loss and deterioration due to conversion of wetlands to other land uses with perceived higher economic value (such as aquaculture farms, resorts and reclamation areas) and diversion of rivers for irrigation and dam construction, which leads to drying up of river beds, modification of the habitat of riverine flora and fauna, and detrimental impacts on the movements of migratory fish;
- over-fishing and over-harvesting of forestry and freshwater products;
- climate change and pollution arising from domestic, industrial and agricultural sources that in turn lead to water-quality problems such as algal blooms and oxygen depletion;
- and introduction of exotic species and disease leading to the displacement of endemic and native species through predation, competition for food and other resources, and proliferation of invasive alien species due to the absence of natural predators (Carlo Custodio, pers. comm., Sept. 2006).

The census was coordinated by the Protected Areas and Wildlife Bureau, the Philippines.

Region	Site Name	Status ¹	2002	2003	2004
Luzon Luzon	Brgy. Baluarte Buguey Lagoon		312	3,566	<u>1,442</u> 1.319
Luzon	Candaba Swamp	1	1,190	<u> </u>	1,061
Luzon	Caraque Lake	I	46	429	385
Luzon	Coastal Area, Bacoor		616	120	000
Luzon	Coastal Road Lagoons, NCR				3,652
Luzon	Diburiburan			112	- ,
Luzon	Imus River Estuary, Alima Coastal Fishponds				1,215
Luzon	Iwahig Prison and Penal Farm				941
Luzon	Magat Dam		4,408	3,116	1,399
Luzon	Malasi Lake		6,557	5,857	6,806
Luzon	Manila Bay: Cavite Area		4.000	- 00 -	1,488
Luzon	Manila Bay: Puerto Rivas, Balanga	I	4,233	5,227	12,632
Luzon	Monterey Lake		12,051		595
Luzon Luzon	Naujan Lake Novelita Salt Fishpond	R, A, I	12,001	924	2,333
Luzon	Pagbilao Bay		540	417	2,333
Luzon	Paitan Lake	•	040	717	1,420
Luzon	Palaui Island		139	44	43
Luzon	Paoay Lake National Park				395
Luzon	Pata Lake				193
Luzon	Prieto-Diaz Wetland Area			410	315
Luzon	Ragay Gulf		1,293	291	733
Luzon	Subic Bay			407	
Luzon	Tambo Mudflats and Coastal Lagoons				1,055
Luzon	Tanza Coastal Wetland				4,054
Mindanao	Agusan Marsh Wildlife Sanctuary	R, I	2,838		4,970
Mindanao	Alubijid Wetland		838	783	510
Mindanao	Bonifacio Wetland		381	2,099 1,760	5,156
Mindanao Mindanao	Brgy. Lapaz, Carmen Crispin Betita Fishpond		32	1,760	<u>9,775</u> 86
Mindanao	Dinas Mangrove Forest		32	285	00
Mindanao	Kumalauit Coastal Mudflats		11	153	55
Mindanao	Lake Mainit		10,476	100	5,815
Mindanao	Malalag Bay: Mudflats			1,092	4,532
Mindanao	Malalag Bay: Taguicon-Balasinon		1,655	1,766	2,733
Mindanao	Mampang Tugbungan Area		444	305	408
Mindanao	Maputi, Banaybanay			980	4,088
Mindanao	Masao				234
Mindanao	Mukas Mangrove Wetland			460	
Mindanao	Murcielagos Islands			622	250
Mindanao	Opol Wetland Area		44	104	78
Mindanao	Porfirio, Roman, Ferdie Santos Fishpond		253	190	99
Mindanao	Pulangi Wetland Area		673	827	72
Mindanao	Sa-Az River Mouth, San Ramon Seacoast		<u> </u>	<u>154</u> 182	<u> </u>
Mindanao Mindanao	Sinacaban Mangrove Talon-Talon Wetland		930	241	1,039
Mindanao	Vitali Wetland Area		330	241	1,526
Visayas	Bago, Villodolid		9,002	2,785	1,047
Visayas	Bantayan Island Wilderness Area		546	572	543
Visayas	Brgy. Baras Campoyong Mudflat		342	251	588
Visayas	Calituban and Tahong Island	1	68	276	134
Visayas	Carigara Bay Wetlands		1,075	488	507
Visayas	Cordova Wetland		1,998	1,681	3,384
Visayas	Dulungan-Cudian, Ivisan		688	566	
Visayas	Guimaras		686	552	341
Visayas	Himamaylan, Kabankalan and Ileig Wetland		6,604	1,115	3,134
Visayas	Lagbangan Lake		32		
Visayas	Magellan Bay Wetland		818	457	440
Visayas Visayas	Mahaba Island Mandurriao, Leganes		87 1,996	<u>157</u> 943	<u>116</u> 1,183
Visayas	North Bais Bay		222	340	1,103
Visayas	Olango Island Wildlife Sanctuary	R, S, I	1,161	6,296	9,415
Visayas	Ormoc Intertidal Flat	1, 0, 1	960	839	1,433
Visayas	Panglao Island		423	115	.,
Visayas	Roxas City, Cudian, Ivisan		0		1,409
Visayas	Sagay Marine Reserve Area		507	210	512
Visayas	Sampunong Bolo Bird Sanctuary		1,199	476	1,350
Visayas	San Jose, Hamtic, Sibalom, San Romogio		1,301	717	1,390

Table 31: Wetland sites surveyed during the AWC in the Philippines, 2002–2004

Region	Site Name	Status ¹	2002	2003	2004
Visayas	Tanjay Wetlands		1,033		
Visayas	Tiwi, Laste, Lanas		1,267	380	283

Notes: Status¹: R – Ramsar site, I – Wetland IBA identified by BirdLife International (2005), A – Anatidae site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway.

Table 32: Waterbird species counts reported during the AWC in the Philippines, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		57		
Grey Heron	Ardea cinerea		185	42	438
Eastern White Egret	Ardea modesta		408	1,530	4,530
Intermediate Egret	Ardea intermedia		2,844	1,204	3,802
Great-billed Heron	Ardea sumatrana		3	28	6
Purple Heron	Ardea purpurea		432	59	132
Cattle Egret	Ardea (Bubulcus) ibis		3,426	2,459	5,691
Green-backed Heron	Butorides striatus		107	113	254
Chinese Pond Heron	Ardeola bacchus		217	198	635
Javan Pond Heron	Ardeola speciosa		3	9	177
unidentified pond herons	Ardeola spp.			5	2
Little Egret	Egretta garzetta		4,797	3,846	13,742
Chinese Egret	Egretta eulophotes	VU	176	367	563
Eastern Reef Heron	Egretta sacra		56	79	238
unidentified egrets	Egretta spp.		146	192	327
Black-crowned Night-heron	Nycticorax nycticorax		145	2	28
Rufous Night-heron	Nycticorax caledonicus		1	327	1
Eurasian Bittern	Botaurus stellaris		1	1	
Yellow Bittern	Ixobrychus sinensis		24	9	46
Cinnamon Bittern	Ixobrychus cinnamomeus		37	6	15
Black Bittern	Ixobrychus flavicollis		42	4	7
unidentified Ardeidae	Ardeidae spp.		8,092	5	842
Wandering Whistling Duck	Dendrocygna arcuata		7,635	1,557	4,094
Eurasian Wigeon	Anas penelope		,	205	46
Philippine Duck	Anas Iuzonica	VU	3,621	2,334	4,632
Northern Pintail	Anas acuta	-	26	587	,
Garganey	Anas querquedula		100	816	85
Northern Shoveler	Anas clypeata		2,386	1,842	2,326
Tufted Duck	Aythya fuligula		14,853	3,705	5,371
unidentified ducks	Anatinae spp.		5,076	19	603
Barred Rail	Gallirallus torguatus		36	12	359
Buff-banded Rail	Gallirallus philippensis		45	15	98
Slaty-breasted Rail	Gallirallus striatus		4		
Water Rail	Rallus aquaticus		42	6	4
White-breasted Waterhen	Amaurornis phoenicurus		458	3	1
Baillon's Crake	Porzana pusilla			3	
Ruddy-breasted Crake	Porzana fusca		23	1	3
White-browed Crake	Porzana cinereus		3	2	1
Watercock	Gallicrex cinerea		21	_	51
Purple Swamphen	Porphyrio porphyrio			1	2
Common Moorhen	Gallinula chloropus		242	1	51
Common Coot	Fulica atra		11		2
Greater Painted Snipe	Rostratula benghalensis			1	2
Black-winged Stilt	Himantopus himantopus		764	1,041	932
unidentified lapwings	Vanellus spp.		104	100	002
Pacific Golden Plover	Pluvialis fulva		783	487	455
Grey Plover	Pluvialis squatarola		1,205	1,694	1,104
Little Ringed Plover	Charadrius dubius		109	275	462
Kentish Plover	Charadrius alexandrinus		789	1,148	3,050
Lesser Sandplover	Charadrius mongolus		580	2,799	2,461
Greater Sandplover	Charadrius leschenaultii		169	590	450
Oriental Plover	Charadrius veredus		103	6	430
unidentified <i>Charadrius</i> plovers	Charadrius spp.		813	4,093	2,576
Swinhoe's Snipe	Gallinago megala		015	- ,095	2,570
Common Snipe	Gallinago gallinago		43	32	2
Asian Dowitcher	Limnodromus semipalmatus	NIT	<u> </u>	<u> </u>	00
Black-tailed Godwit	Limnoaromus semipaimatus Limosa limosa	NT NT			23
		IN I	34	816	137
Bar-tailed Godwit	Limosa lapponica		76	330	526
unidentified godwits	Limosa spp.		61	57	604
Little Curlew	Numenius minutus		110	565	624
Whimbrel	Numenius phaeopus		565	428	1,129

English Name	Scientific Name	GTS ¹	2002	2003	2004
Eurasian Curlew	Numenius arquata		38	31	56
unidentified curlews	Numenius spp.		33	65	364
Common Redshank	Tringa totanus		445	1,553	1,614
Marsh Sandpiper	Tringa stagnatilis		527	1,486	1,675
Common Greenshank	Tringa nebularia		427	679	1,832
Green Sandpiper	Tringa ochropus		56	81	
Wood Sandpiper	Tringa glareola		261	345	1,267
unidentified Tringa sandpipers	Tringa spp.		2,759	2,350	3,644
Terek Sandpiper	Xenus cinereus		96	293	630
Common Sandpiper	Actitis hypoleucos		232	341	239
Grey-tailed Tattler	Heteroscelus brevipes		38	98	125
Ruddy Turnstone	Arenaria interpres		169	210	127
Red Knot	Calidris canutus		150	5	1
Great Knot	Calidris tenuirostris		318	546	1,739
Sanderling	Calidris alba		7	98	
Red-necked Stint	Calidris ruficollis		2,023	1,013	3,256
Temminck's Stint	Calidris temminckii		10	72	464
Long-toed Stint	Calidris subminuta		1		88
Sharp-tailed Sandpiper	Calidris acuminata				29
Curlew Sandpiper	Calidris ferruginea		10	393	419
Dunlin	Calidris alpina				325
unidentified Calidris sandpipers	Calidris spp.		3	363	75
unidentified shorebirds	Charadrii spp.		5,172		3,526
Herring Gull	Larus argentatus		169	551	
Brown-headed Gull	Larus brunnicephalus				860
Common Black-headed Gull	Larus ridibundus		267	651	463
unidentified gulls	Laridae spp.		58		
Gull-billed Tern	Gelochelidon nilotica		4	210	159
Caspian Tern	Sterna caspia		16	45	
(Greater) Crested Tern	Sterna bergii			12	
Black-naped Tern	Sterna sumatrana		10	61	4,244
Common Tern	Sterna hirundo		2,127	4,138	10,174
Little Tern	Sterna albifrons		300	821	2,941
Whiskered Tern	Chlidonias hybridus		2,351	210	6,525
White-winged Black Tern	Chlidonias leucopterus		141		513
unidentified terns	Sterninae spp.		2,916	50	2,900
Total Waterbirds			83,048	52,844	113,412
Brahminy Kite	Haliastur indus		5		
Eastern Marsh Harrier	Circus spilinotus		1		
Collared Kingfisher	Todiramphus chloris		53		
Common Kingfisher	Alcedo atthis		16		

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.8 Singapore

Ten sites were surveyed at least once in 2002–2004 (Figure 21 and Table 33). Waterbird totals recorded were 1,235 (1 site), 3,647 (9 sites) and 2,099 (9 sites) in 2002, 2003 and 2004 respectively. Two IBAs (Kranji and Pulau Ubin) and one EAAF Migratory Waterbird Network site for shorebirds (Sungai Buloh Bird Sanctuary) were surveyed.

Forty waterbird species and four raptor species were recorded in the three years (Table 34). The most numerous species was Pacific Golden Plover, with 1,383 individuals recorded in 2003. The only globally threatened species recorded was the Vulnerable Chinese Egret (1 in 2004), and the only Near Threatened species was Malaysian Plover (8 in 2003).

Information on threats to the wetlands and waterbirds was not provided.

The count was coordinated by the Singapore Nature Society. In 2002 the data were provided by the Sungai Buloh Bird Sanctuary; the counts made at the sites in 2003 and 2004 were much lower as they were made at low tide, however Sungai Buloh is mainly a high-tide roost site for shorebirds and other waterbirds.

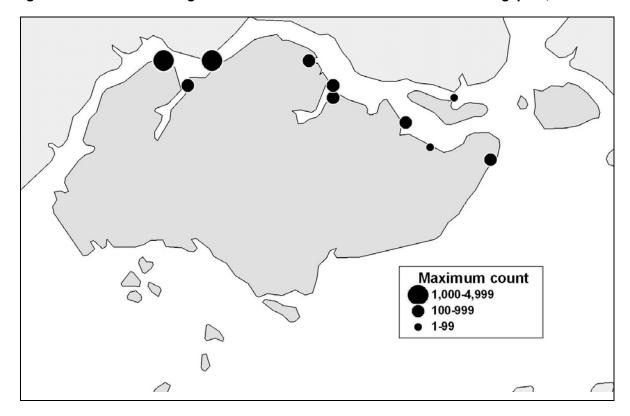




Table 33: Wetland sites surveyed during the AWC in Singapore, 2002–2004

Site Name	Status ¹	2002	2003	2004
Changi Coast (Tanah Merah)			710	150
Khatib Bongsu			281	191
Kranji Dam (Reservoir)	I		108	38
Lorong Halus (Sungei Serangoon Estuary)			65	114
Mandai Mudflat (Sungei Mandai and S. Pangsua Mudflats)			1,732	737
Pasir Ras Mangroves and Mudflats			23	24
Pulau Ubin	1		4	29
Sungei Buloh Bird Sanctuary	S	1,235	432	732
Sungei Selatar Coast			304	
Sungei Seletar Reservoir				99

Status¹: I – Wetland IBA identified by BirdLife International (2005), S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway.

Table 34: Waterbird s	nacias counts ra	norted during the	AWC in Singapor	2002_2004
Table 54. Walerbird S	pecies counts re	ported during the	AWC III Siliyapure	, 2002-2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis			3	
Grey Heron	Ardea cinerea		2	110	106
Eastern White Egret	Ardea modesta		19	37	20
Intermediate Egret	Ardea intermedia			4	5
Purple Heron	Ardea purpurea		28	9	19
Cattle Egret	Ardea (Bubulcus) ibis			2	21
Green-backed Heron	Butorides striatus		3	79	43
Chinese Pond Heron	Ardeola bacchus		1		1
Little Egret	Egretta garzetta		154	159	318
Chinese Egret	Egretta eulophotes	VU			1
Eastern Reef Heron	Egretta sacra			4	3
Black-crowned Night-heron	Nycticorax nycticorax			1	
Yellow Bittern	Ixobrychus sinensis			11	5
Black Bittern	Ixobrychus flavicollis			3	1
Lesser Whistling Duck	Dendrocygna javanica			2	
White-breasted Waterhen	Amaurornis phoenicurus		8	41	58

English Name	Scientific Name	GTS	2002	2003	2004
White-browed Crake	Porzana cinereus			1	
Common Moorhen	Gallinula chloropus		2	7	2
Pacific Golden Plover	Pluvialis fulva		344	1,383	497
Grey Plover	Pluvialis squatarola			41	
Little Ringed Plover	Charadrius dubius			9	10
Kentish Plover	Charadrius alexandrinus				1
Malaysian Plover	Charadrius peronii	NT		8	3
Lesser Sandplover	Charadrius mongolus			161	40
Greater Sandplover	Charadrius leschenaultii			2	20
Bar-tailed Godwit	Limosa lapponica				5
Whimbrel	Numenius phaeopus		159	240	107
Eurasian Curlew	Numenius arquata				1
Common Redshank	Tringa totanus		12	336	282
Marsh Sandpiper	Tringa stagnatilis		360	215	207
Common Greenshank	Tringa nebularia		122	267	209
Wood Sandpiper	Tringa glareola			2	
Terek Sandpiper	Xenus cinereus		2	23	2
Common Sandpiper	Actitis hypoleucos			154	63
Grey-tailed Tattler	Heteroscelus brevipes		1	2	
Ruddy Turnstone	Arenaria interpres		5	4	1
Sanderling	Calidris alba			8	
Red-necked Stint	Calidris ruficollis			310	41
Curlew Sandpiper	Calidris ferruginea		13		
unidentified gulls	Laridae spp.				1
(Greater) Crested Tern	Sterna bergii			3	6
unidentified terns	Sterninae spp.			6	
Total Waterbirds			1,235	3,647	2,099
Osprey	Pandion haliaetus			2	2
Black-shouldered Kite	Elanus caeruleus			1	
Brahminy Kite	Haliastur Indus			2	7
White-bellied Fish-eagle	Haliaeetus leucogaster			7	6

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.9 Thailand

Forty-nine sites were surveyed at least once in all three years (Figure 22 and Table 35). Waterbird totals recorded were 24,805 (9 sites), 63,566 (27 sites) and 216,515 (21 sites) in 2002, 2003 and 2004 respectively.

Three Ramsar sites (also IBAs), namely Nong Bong Khai, Krabi Mangroves (also an EAAF Migratory Waterbird Network site for shorebirds) and Thale Noi Non-Hunting Area were surveyed. A further five IBAs, namely Inner Gulf (including 6 sub-sites), Bung Boraphet, Ko Pratong, Sanambin Non-Hunting Area and Thung Tha Laad, were also surveyed.

The sites that recorded more than 20,000 waterbirds were Bung Boraphet (154,432 in 2004) and Thale Noi Non-Hunting Area (21,318 in 2004). The great diversity and abundance of waterbirds at Bung Boraphet make it an ideal candidate for designation as a Ramsar site. A total of eight sites recorded more than 1% of the biogeographic population of at least one waterbird species.

A total of 106 waterbird species were recorded in the three years, together with one raptor and two kingfisher species (Table 36). The most numerous species recorded were Lesser Whistling Duck (98,585 in 2004), Asian Openbill (52,790 in 2004), Brown-headed Gull (10,023 in 2003), Cotton Pygmy Goose (9,827 in 2004), Cattle Egret (6,515 in 2004), Black-crowned Night-heron (5,710 in 2003), Little Cormorant (5,471 in 2004) and Garganey (5,106 in 2004).

The highest count totals of six globally threatened species were as follows: Endangered: Black-faced Spoonbill (3 in 2003), Nordmann's Greenshank (35 in 2004) and Spoon-billed Sandpiper (4 in 2004); Vulnerable: Spot-billed Pelican (3 in 2004), Lesser Adjutant (10 in 2003) and Baer's Pochard (3 in 2002).

Highest count totals of five Near Threatened species were: Oriental Darter (3 in 2004), Painted Stork (35 in 2003), Ferruginous Duck (46 in 2004), Malaysian Plover (4 in 2003) and Black-tailed Godwit (276 in 2003).

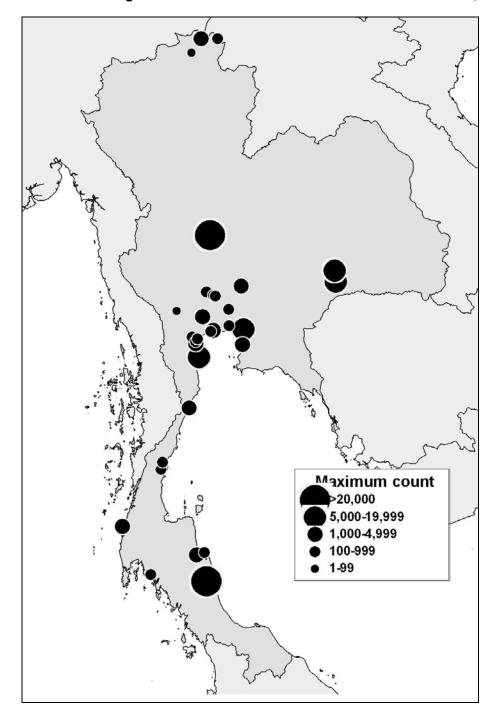


Figure 22: AWC site coverage and numerical distribution of waterbirds in Thailand, 2002–2004

The major threats to the wetlands included urbanisation and industrialisation (such as road development in the Inner Gulf of Thailand); spread of inland brackishwater aquaculture (Lower Central Plains); road developments (Bung Khong Long, Thale Noi Ramsar sites); conversion of traditional prawn ponds and salt pans to intensive aquaculture ponds for non-sustainable rearing of crabs (larvae imported from Myanmar); soil excavation and landfill (widespread in Inner Gulf and Lower Central Plains) and erosion control measures (construction of concrete sea-wall barriers – Inner Gulf)

Hunting of waterbirds is little documented but widespread. Night-netting and dazzling of Watercocks and White-breasted Waterhens was widespread in the late autumn (October–November); presumably these birds are northern migrants (Philip Round, pers. comm., Aug. 2006).

The counts were coordinated jointly by the Bird Conservation Society of Thailand.

Province	Site Name	Status ¹	2002	2003	2004
Ayutthaya	Ban Kaew Fa			151	
Ayutthaya	Tmk Fishing Land			585	
Buriram	Ban Paisan		23		
Buriram	Bang Khok Anguan		1,872		
Buriram	Huai Chorakhe Mak (Jorakemak) Nha				6,719
Buriram	Huai Sawai Reservoir			307	
Buriram	Huai Talat Non-Hunting Area		13,628	15,831	998
Buriram	Nong Phai		520		
Buriram	Nong Preu		1,900		
Buriram	Nong Sanoh		72		
Buriram	Nong Thanon Hak		95		
Buriram	Sanambin Non-Hunting Area	I	3,248	11,794	11,306
Si Saket	Nong Lahan				1,140
Chiang Rai	Mekong River (Chiang Saen to Chiang Khong)				435
Chiang Rai	Nong Bong Khai	R, pl	3,447		2,484
Chiang Rai	Nong Bong Khai: Jor Tong Dam				1,574
Chiang Rai	Sri Yonok Temple Pond				7
Chonburi	Bang Pra Non-Hunting Area				1,114
Chonburi	Klong Dom Ru				917
Chumphon	Ao (Bay) Thung Kha-Sawi				414
Chumphon	Nong Yai, Ban Rong Noi, Pak Nam Chumphon			842	601
Kanchanaburi	Khwae-Noi River			6	
Krabi	Pak Nam (Krabi Mangroves, River Mouth)	pR, pI, S		573	
Lampang	Huai Ding, Rong Moh, Bo Baeb Reservoirs			31	
Nakhon Pathom	Kasetsart University (Kampaengsaen)			197	2,153
Nakhon Sawan	Bung Boraphet				154,432
Nakhon Si Thammarat	Laem Talumphuk			781	
Nakhon Si Thammarat	Thung Tha Laad			1,151	
Pathum Thani	Rangsit Marshes			220	
Pattalung	Thale Noi Non-Hunting Area	R, I			21,318
Petchaburi	Ban Bang Tabun	,		167	
Petchaburi	Ban Tha			854	
Petchaburi	Pak Thale and Laem Phak Bia, Inner Gulf	pl			6,443
Petchaburi	Wat Khao Takhrao, Inner Gulf	pl		4,747	
Phang Nga	Ko Pratong	<u>i</u>		1,289	
Prachinburi	Kabinchalermratch Park				786
Prachuap Khiri Khan	Wa Ko Educational Park			2,202	
Samut Prakan	Khlong Bang Kaew, Km 1.5, Bang Na Trat Road			122	
Samut Prakan	Bang Pu, Inner Gulf	pl		16,195	
Samut Sakhon	Khok Kham. Inner Gulf	pl		2,263	1.571
Samut Sakhon	Mangrove Education Center, Inner Gulf	pl		220	1-
Samut Songkhram	Pak Tho	P .		605	
Samut Songkhran	Klong Khon, Inner Gulf	pl		178	
Saraburi	Saraburi	F*		1,011	
Sra Kaew	Phu Ngeun Dam			.,	63
Sra Kaew	Pra Prong Reservoir				1,909
Sra Kaew	Thale Klong Hat				139
Supanburi	Bang Pla Ma			500	100
Trat	Nong Samet Irrigation Proj. Reservoir			746	
				140	

Table 35: Wetland sites surveyed during the AWC in Thailand, 2002–2004

Notes:

Status¹: R – Ramsar site, pR – part of a Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway.

Table 36: Waterbird species counts reported during the AWC in Thailand, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		35	135	1,735
Great Crested Grebe	Podiceps cristatus				4
Spot-billed Pelican	Pelecanus philippensis	VU			3
Great Cormorant	Phalacrocorax carbo		1		
Indian Cormorant	Phalacrocorax fuscicollis			38	1
Little Cormorant	Phalacrocorax niger		4	3,899	5,471
Oriental Darter	Anhinga melanogaster	NT			3
Grey Heron	Ardea cinerea		104	542	538
Eastern White Egret	Ardea modesta		319	920	3,425
Intermediate Egret	Ardea intermedia		380	305	4,094
Purple Heron	Ardea purpurea		35	157	298

English Name	Scientific Name	GTS ¹	2002	2003	2004
Cattle Egret	Ardea (Bubulcus) ibis	0.0	3,483	3,224	6,515
Green-backed Heron	Butorides striatus		,	24	6
Chinese Pond Heron	Ardeola bacchus		475	1,444	2,000
unidentified pond herons	Ardeola spp.			639	150
Little Egret	Egretta garzetta		947	966	4,276
Eastern Reef Heron	Egretta sacra			24	1 000
Black-crowned Night-heron Yellow Bittern	Nycticorax nycticorax Ixobrychus sinensis			<u>5,710</u> 19	1,239 33
Cinnamon Bittern	Ixobrychus cinnamomeus		4	19	17
Black Bittern	Ixobrychus flavicollis			12	3
unidentified Ardeidae	Ardeidae spp.				1,230
Painted Stork	Mycteria leucocephala	NT		35	33
Asian Openbill	Anastomus oscitans		5	139	52,790
Black Stork	Ciconia nigra				1
Lesser Adjutant	Leptoptilos javanicus	VU		10	
unidentified storks	Ciconiidae spp.				1
Glossy Ibis	Plegadis falcinellus				20
Black-faced Spoonbill	Platalea minor	EN	16 426	3	2
Lesser Whistling Duck Ruddy Shelduck	Dendrocygna javanica Tadorna ferruginea		16,436	24,741	98,585
Cotton Pygmy Goose	Nettapus coromandelianus		213	187	9,827
Mandarin Duck	Aix galericulata		215	107	2
Eurasian Wigeon	Anas penelope				20
Gadwall	Anas strepera				2
Common Teal	Anas crecca		100		96
Mallard	Anas platyrhynchos				1
Spot-billed Duck	Anas poecilorhyncha				400
Northern Pintail	Anas acuta		86	188	760
Garganey	Anas querquedula		285	755	5,106
Northern Shoveler	Anas clypeata	1/11	0	1	467
Baer's Pochard Ferruginous Duck	Aythya baeri Aythya nyroca	VU NT	3		2 46
Tufted Duck	Aythya fuligula	INT	3	2	22
Slaty-breasted Rail	Gallirallus striatus		5	۷.	3
Water Rail	Rallus aguaticus				2
White-breasted Waterhen	Amaurornis phoenicurus		3	45	106
Ruddy-breasted Crake	Porzana fusca			18	8
White-browed Crake	Porzana cinereus				33
Watercock	Gallicrex cinerea			11	15
Purple Swamphen	Porphyrio porphyrio		508	1,897	1,571
Common Moorhen	Gallinula chloropus		81	121	581
Common Coot	Fulica atra		115	58	228
Pheasant-tailed Jacana	Hydrophasianus chirurgus		<u>111</u> 25	<u>119</u> 110	462 185
Bronze-winged Jacana Greater Painted Snipe	Metopidius indicus Rostratula benghalensis		<u></u> 5	7	44
Black-winged Stilt	Himantopus himantopus		48	495	2,126
Oriental Pratincole	Glareola maldivarum		-10	2	358
Small Pratincole	Glareola lactea				200
Grey-headed Lapwing	Vanellus cinereus			45	84
Red-wattled Lapwing	Vanellus indicus			78	288
Pacific Golden Plover	Pluvialis fulva		51	481	175
Grey Plover	Pluvialis squatarola			10	121
Long-billed Plover	Charadrius placidus		~=	100	1
Little Ringed Plover	Charadrius dubius		37	162	216
Kentish Plover	Charadrius alexandrinus	NT		197 4	128
Malaysian Plover Lesser Sandplover	Charadrius peronii Charadrius mongolus	NI		1,672	2,320
Greater Sandplover	Charadrius Inongolus Charadrius leschenaultii			80	2,320
unidentified Charadrius plovers	Charadrius spp.			50	
Pintail Snipe	Gallinago stenura		13	32	85
Common Snipe	Gallinago gallinago		270	71	176
unidentified snipe	Gallinago spp.				32
Black-tailed Godwit	Limosa limosa	NT	23	276	107
Bar-tailed Godwit	Limosa lapponica			150	1
Whimbrel	Numenius phaeopus			60	19
Eurasian Curlew	Numenius arquata			16	226
Spotted Redshank	Tringa erythropus		90	146	419
Common Redshank	Tringa totanus		05	35	996
Marsh Sandpiper	Tringa stagnatilis		<u>25</u> 43	439	910 106
Common Greenshank Nordmann's Greenshank	Tringa nebularia Tringa guttifer	EN	43	<u>89</u> 7	35
Green Sandpiper	Tringa gullier Tringa ochropus			<u>/</u> 1	205
orden banupiper	ninga ocniopus				200

Wood SandpiperTringa glareolaTerek SandpiperXenus cinereusCommon SandpiperActitis hypoleucosRuddy TurnstoneArenaria interpresRed KnotCalidris canutusGreat KnotCalidris tenuirostrisSanderlingCalidris albaRed-necked StintCalidris ruficollisTemminck's StintCalidris subminutaCurlew SandpiperCalidris ferrugineaSpoon-billed SandpiperEurynorhynchus pygnBroad-billed SandpiperLimicola falcinellusRuffPhilomachus pugnaxunidentified shorebirdsCharadrii spp.Heuglin's GullLarus heugliniYellow-legged GullLarus cachinnansGreat Black-headed (Pallas's) GullLarus proheaded SundusSiender-billed GullLarus geneiGull-billed GullLarus geneiGull-billed GullLarus geneiGull-billed GullLarus geneiGull-billed GullLarus geneiGull-billed TernGelochelidon niloticaCaspian TernSterna caspia	aeus EN	422 12 2	269 202 370 15 85 6 174 70 132 32 3 3 34 150	590 3 197 4 107 281 112 182 505 4 160 3 845 29
Common SandpiperActitis hypoleucosRuddy TurnstoneArenaria interpresRed KnotCalidris canutusGreat KnotCalidris tenuirostrisSanderlingCalidris albaRed-necked StintCalidris ruficollisTemminck's StintCalidris temminckiiLong-toed StintCalidris subminutaCurlew SandpiperCalidris ferrugineaSpoon-billed SandpiperEurynorhynchus pygnBroad-billed SandpiperLimicola falcinellusRuffPhilomachus pugnaxunidentified shorebirdsCharadrii spp.Heuglin's GullLarus heugliniYellow-legged GullLarus ichthyaetusBrown-headed GullLarus ridibundusSlender-billed GullLarus geneiGull-billed GullLarus geneiGull-billed TernGelochelidon nilotica	aeus EN		370 15 85 6 174 70 132 32 32 3 3 34	197 4 107 281 112 182 505 4 160 3 845
Ruddy Turnstone Arenaria interpres Red Knot Calidris canutus Great Knot Calidris canutus Great Knot Calidris tenuirostris Sanderling Calidris alba Red-necked Stint Calidris ruficollis Temminck's Stint Calidris subminuta Long-toed Stint Calidris subminuta Curlew Sandpiper Calidris ferruginea Spoon-billed Sandpiper Eurynorhynchus pygn Broad-billed Sandpiper Limicola falcinellus Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus schthyaetus Brown-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica	aeus EN		15 85 6 174 70 132 32 32 3 3 34	4 107 281 112 182 505 4 160 3 845
Red Knot Calidris canutus Great Knot Calidris tenuirostris Sanderling Calidris tenuirostris Sanderling Calidris alba Red-necked Stint Calidris ruficollis Temminck's Stint Calidris temminckii Long-toed Stint Calidris subminuta Curlew Sandpiper Calidris ferruginea Spoon-billed Sandpiper Eurynorhynchus pygn Broad-billed Sandpiper Limicola falcinellus Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus ichthyaetus Brown-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica	aeus EN	2	85 6 174 70 132 32 3 3 34	107 281 112 182 505 4 160 3 845
Great Knot Calidris tenuirostris Sanderling Calidris tenuirostris Sanderling Calidris alba Red-necked Stint Calidris ruficollis Temminck's Stint Calidris temminckii Long-toed Stint Calidris subminuta Curlew Sandpiper Calidris ferruginea Spoon-billed Sandpiper Eurynorhynchus pygn Broad-billed Sandpiper Limicola falcinellus Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus brunnicephalus Common Black-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica	aeus EN	2	6 174 70 132 32 3 3 34	107 281 112 182 505 4 160 3 845
Sanderling Calidris alba Red-necked Stint Calidris ruficollis Temminck's Stint Calidris subminuta Long-toed Stint Calidris subminuta Curlew Sandpiper Calidris ferruginea Spoon-billed Sandpiper Eurynorhynchus pygn Broad-billed Sandpiper Limicola falcinellus Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus brunnicephalus Common Black-headed Gull Larus genei Gull-billed Tern Gelochelidon nilotica	aeus EN	2	6 174 70 132 32 3 3 34	281 112 182 505 4 160 3 845
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Spoon-billed Sandpiper Eurynorhynchus pygn Broad-billed Sandpiper Limicola falcinellus Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus brunnicephalus Common Black-headed Gull Larus genei Gull-billed Tern Gelochelidon nilotica	aeus EN		3 34	4 160 3 845
Broad-billed Sandpiper Limicola falcinellus Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus brunnicephalus Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus genei Gull-billed Tern Gelochelidon nilotica	aeus EN		34	160 3 845
Ruff Philomachus pugnax unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus ichthyaetus Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus genei Gull-billed Tern Gelochelidon nilotica				3 845
unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus ichthyaetus Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus genei Gull-billed Tern Gelochelidon nilotica			150	845
unidentified shorebirds Charadrii spp. Heuglin's Gull Larus heuglini Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus ichthyaetus Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus genei Gull-billed Tern Gelochelidon nilotica			150	
Yellow-legged Gull Larus cachinnans Great Black-headed (Pallas's) Gull Larus ichthyaetus Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica				29
Great Black-headed (Pallas's) Gull Larus ichthyaetus Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica				1
Brown-headed Gull Larus brunnicephalus Common Black-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica				
Common Black-headed Gull Larus ridibundus Slender-billed Gull Larus genei Gull-billed Tern Gelochelidon nilotica				6
Slender-billed GullLarus geneiGull-billed TernGelochelidon nilotica			10,023	630
Gull-billed Tern Gelochelidon nilotica			50	
			4	
Caspian Tern Sterna caspia			1	52
			68	101
Lesser Crested Tern Sterna bengalensis			35	2
(Greater) Crested Tern Sterna bergii			2	4
Common Tern Sterna hirundo			263	186
Little Tern Sterna albifrons			145	28
Whiskered Tern Chlidonias hybridus			300	254
White-winged Black Tern Chlidonias leucopteru	3		30	429
Total Waterbirds		24,805	63,566	216,515
Osprey Pandion haliaetus				8
White-throated Kingfisher Halcyon smyrnensis			1	
Black-capped Kingfisher Halcyon pileata			1	

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.3.10 Vietnam

Seventeen sites, including two Ramsar sites, six IBAs and two MAB Biosphere Reserves, were recorded in the 3-year period (Figure 23 and Table 37). Waterbird totals recorded were 19,760 (16 sites), 2,447 (4 sites) and 4,692 (4 sites) respectively. Detailed information is included in the various BirdLife International reports, including Le Manh Hung *et al.* (2002a,b).

Although no sites recorded more than 20,000 waterbirds, two sites, namely Tra O Lagoon and Xuan Thuy Ramsar site, each recorded more than 1% of the biogeographic population of one waterbird species.

Totals of 74 waterbird, two raptor and three kingfisher species were recorded (Table 38). The highest species counts were all made in 2002: they were Little Egret (4,410), Common Tern (2,000), Common Black-headed Gull (1,411), Eurasian Wigeon (1,400) and Kentish Plover (1,240).

The globally threatened species recorded were: Endangered: Black-faced Spoonbill (highest count of 65 individuals in 2003); Vulnerable: Chinese Egret (1 in 2002), Lesser Adjutant (5 in 2002) and Saunders's Gull (9 in 2002). Near Threatened species recorded were: Oriental Darter (4 in 2003), Painted Stork (50 in 2002), Black-headed Ibis (1 in 2004), Falcated Duck (9 in 2002) and Black-tailed Godwit (109 in 2004).

Threats to wetlands in Vietnam included loss of wetland habitat due to canalisation, drainage and conversion to agriculture and urbanisation; changes in water regimes in catchments due to construction of dams, dikes and water reservoirs; changes in water quality due to pollutants, sulphate oxidation and poorly controlled upstream land use; changes in wetland biodiversity due to the over-exploitation of wetland resources (including fish and other aquatic species, birds, trees and plants). Hence wetland-dependent wildlife is being threatened by habitat loss, hunting and disturbance, and disease (Nguyen Duc Tu, pers. comm., Sept. 2006).

The census was coordinated by the BirdLife International – Vietnam Office.

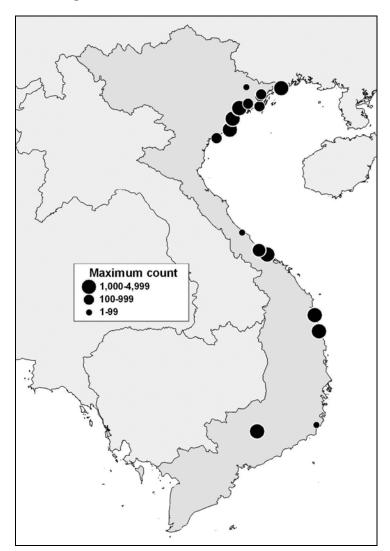


Figure 23: AWC site coverage and numerical distribution of waterbirds in Vietnam, 2002–2004

Table 37: Wetland sites surveyed during the AWC in Vietnam, 2002–2004

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Binh Dinh	Tra O Lagoon		Н	3,670		
Dong Nai	Cat-Tien National Park (Bau Sau)	R, I, M	G	4,020		
Nam Dinh	Nghia Hung District		6FH		155	294
Nam Dinh	Xuan Thuy Ramsar Site	R, I, pM	36FHI	1,770	783	1,658
Ninh Thuan	Dam Nai Lagoon		Н	93		
Quang Binh	Le Thuy District		F	11		
Quang Ngai	Lam Binh Lake		G	2,620		
Quang Ninh	Ba Che Estuary		FH	144		
Quang Ninh	Bac Cua Luc		AEH	136		
Quang Ninh	Ha Coi Town		Н	89		
Quang Ninh	Ha Nam Island		4ACDFG	1,585		1,398
Quang Ninh	Tien Yen Estuary		G	125		
Quang Ninh	Tra Co Peninsula		L	1,073		
Quang Ninh	Van Don Island		4ACDFGL	7	331	
Thai Binh	Thai Thuy District	I, pM	34FHI	1,678	1,178	1,376
Thua Thien Hue	Quang Dien District		FH	1,794		
Thua Thien Hue	Tam Giang – Cau Hai Lagoon		FH	1,008		

Status¹: R – Ramsar site, I – Wetland IBA identified by BirdLife International (2005), M –MAB Biosphere Reserve, pM – part of MAB Biosphere Reserve.

Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 38: Waterbird species counts reported during the AWC in Vietnam, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		58	22	17
Great Cormorant	Phalacrocorax carbo		79	140	81
Oriental Darter	Anhinga melanogaster	NT	4		
Grey Heron	Ardea cinerea		219	146	366
Eastern White Egret	Ardea modesta Ardea intermedia		285 260	315	<u>542</u> 24
Intermediate Egret Purple Heron	Ardea purpurea		<u></u> 65		24
Cattle Egret	Ardea (Bubulcus) ibis		456		
Green-backed Heron	Butorides striatus		18		
Chinese Pond Heron	Ardeola bacchus		856	77	134
Little Egret	Egretta garzetta		4,410	644	1,367
Chinese Egret	Egretta eulophotes	VU	1	-	1
Eastern Reef Heron	Egretta sacra		2		
Black-crowned Night-heron	Nycticorax nycticorax		724	1	
Eurasian Bittern	Botaurus stellaris			1	1
Yellow Bittern	Ixobrychus sinensis		19		
Cinnamon Bittern	Ixobrychus cinnamomeus		15		
Painted Stork	Mycteria leucocephala	NT	50		
Woolly-necked Stork	Ciconia episcopus		9		
Lesser Adjutant	Leptoptilos javanicus	VU	5		
Black-headed Ibis	Threskiornis melanocephalus Platalea leucorodia	NT	1	2	1
Eurasian Spoonbill Black-faced Spoonbill	Platalea minor	EN	55	65	61
Lesser Whistling Duck	Dendrocygna javanica	LIN	681	05	01
Common Shelduck	Tadorna tadorna		4		
Cotton Pygmy Goose	Nettapus coromandelianus		132		
Eurasian Wigeon	Anas penelope		1,400	300	3
Falcated Duck	Anas falcata	NT	9	1	
Common Teal	Anas crecca		405	175	322
Spot-billed Duck	Anas poecilorhyncha		44	10	27
Northern Pintail	Anas acuta		761	20	
Garganey	Anas querquedula		471		
Northern Shoveler	Anas clypeata		250	10	30
unidentified ducks	Anatinae spp.		89		50
Slaty-breasted Rail	Gallirallus striatus		1	4	2
White-breasted Waterhen Baillon's Crake	Amaurornis phoenicurus Porzana pusilla		<u>67</u> 1	4	9
White-browed Crake	Porzana cinereus		85		
Watercock	Gallicrex cinerea		5		
Purple Swamphen	Porphyrio porphyrio		139		
Common Moorhen	Gallinula chloropus		28	31	28
Common Coot	, Fulica atra		174		
Pheasant-tailed Jacana	Hydrophasianus chirurgus		7		
Bronze-winged Jacana	Metopidius indicus		71		
Black-winged Stilt	Himantopus himantopus		702		
Northern Lapwing	Vanellus vanellus		6		
Grey-headed Lapwing	Vanellus cinereus		7		
Red-wattled Lapwing	Vanellus indicus		45		
Pacific Golden Plover	Pluvialis fulva		450	6	00
Grey Plover Little Ringed Plover	Pluvialis squatarola		<u>158</u> 441		32
Kentish Plover	Charadrius dubius Charadrius alexandrinus		1,240	25	2
Pintail Snipe	Gallinago stenura		1,240	20	2
Common Snipe	Gallinago gallinago		70		1
Black-tailed Godwit	Limosa limosa	NT	62	25	109
Bar-tailed Godwit	Limosa lapponica			1	
Whimbrel	Numenius phaeopus		4		
Eurasian Curlew	Numenius arquata		35		
Common Redshank	Tringa totanus		232	9	32
Marsh Sandpiper	Tringa stagnatilis		14	3	9
Common Greenshank	Tringa nebularia		235	84	18
Green Sandpiper	Tringa ochropus		20		27
Wood Sandpiper	Tringa glareola		143	2	
Common Sandpiper	Actitis hypoleucos		91	56	47
Great Knot	Calidris tenuirostris				145
Red-necked Stint	Calidris ruficollis		8	00	
Dunlin unidentified abarabirda	Calidris alpina		130	20	400
unidentified shorebirds Herring Gull	Charadrii spp. Larus argentatus		161	30	<u>100</u> 6

English Name	Scientific Name	GTS ¹	2002	2003	2004
Brown-headed Gull	Larus brunnicephalus		7		
Common Black-headed Gull	Larus ridibundus		1,411	222	1,097
Saunders's Gull	Larus saundersi	VU	9		2
Caspian Tern	Sterna caspia		7		
Common Tern	Sterna hirundo		2,000		
Whiskered Tern	Chlidonias hybridus		14		
Total Waterbirds			19,760	2,447	4,692
Western Marsh Harrier	Circus aeruginosus		32		
Eastern Marsh Harrier	Circus spilinotus				17
Black-capped Kingfisher	Halcyon pileata		1		
Common Kingfisher	Alcedo atthis		30		15
Pied Kingfisher	Ceryle rudis				2

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4 East Asia

3.4.1 Overview

A total of 388 sites were surveyed for AWC 2002–2004: 276, 292 and 321 in 2002, 2003 and 2004 respectively (Figure 24 and Table 39). This number does not include those sites surveyed for the annual group-specific counts of Anatidae and cranes in Japan (see section 3.4.3). Waterbird totals recorded (including the annual Anatidae, crane and shorebird counts in Japan) were 3,366,770, 3,582,202 and 4,180,979 in 2002, 2003 and 2004 respectively.

Twenty-eight Ramsar sites, two MAB Biosphere Reserves, 26 Migratory Waterbird Network sites in the East Asian – Australasian Flyway and 111 IBAs were surveyed at least once. Twenty-five sites recorded more than 20,000 waterbirds, and 133 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

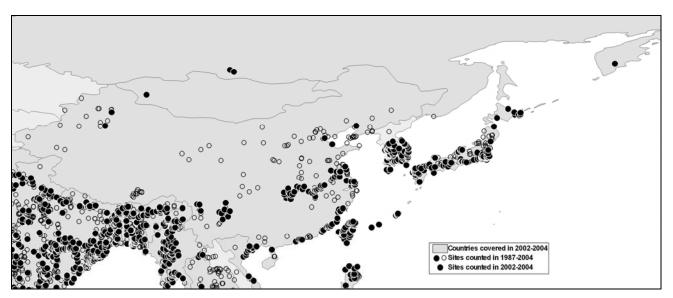


Figure 24: Sites covered by the AWC in the East Asia Region, 1987–2004

Totals of 165 waterbird and 35 wetland-dependent species (including three seabird, 21 raptor, four kingfisher, and seven wagtail and pipit species) were recorded. The highest count totals of the most numerous species (more than 50,000 birds) were Mallard (709,500 in 2003), Baikal Teal (VU, 458,039 in 2004), Spot-billed Duck (299,756 in 2004), Common Teal (267,504 in 2004), Greater Scaup (272,309 in 2004), Northern Pintail (214,429 in 2002), Common Pochard (205,225 in 2002), Eurasian Wigeon (200,530 in 2002), Greater White-fronted Goose (182,918 in 2003), Tufted Duck (133,921 in 2004), Bean Goose (127,245 in 2004), Dunlin (120,325 in 2003), Swan Goose (EN, 98,116 in 2004), Tundra Swan (95,535 in 2004), Common Black-headed Gull (75,473 in 2004) and Kentish Plover (60,623 in 2004).

The highest count totals of 24 globally threatened species were as follows: Critically Endangered: Siberian Crane (3,184 in 2004); Endangered: Japanese Night-heron (7 in 2002), Oriental Stork (2,463 in 2004), Black-faced Spoonbill (879 in 2002), Swan Goose (98,116 in 2004), Scaly-sided Merganser (34 in 2004), Red-crowned Crane (2,018 in 2004) and Spoon-billed Sandpiper (1 in 2002); Vulnerable: Dalmatian Pelican (15 in 2002 and 2004), Chinese Egret (13 in 2003), Lesser White-fronted Goose (16,956 in 2004), Baikal Teal (458,039 in 2004), Red-breasted Goose (1 in 2004), Baer's Pochard (636 in 2004), White-naped Crane (6,486 in 2004), Hooded Crane (10,592 in 2004), Black-necked Crane (3,562 in 2004), Swinhoe's Rail (1 in 2004), Saunders's Gull (2,509 in 2004), Relict Gull (3,367 in 2004), Laysan Albatross (1 in 2004), Steller's Sea-eagle (60 in 2002), Greater Spotted Eagle (3 in 2004) and Imperial Eagle (5 in 2002).

Highest count totals of seven Near Threatened species were: Black-headed Ibis (1 in 2003 and 2004), Falcated Duck (29,990 in 2004), Ferruginous Duck (792 in 2004), Asian Dowitcher (1 in 2002), Black-tailed Godwit (771 in 2004), Cinereous Vulture (475 in 2003) and White-tailed Eagle (38 in 2004).

English Name	Scientific Name	GTS ¹	2002	2003	2004
Red-throated Diver	Gavia stellata		18	21	50
Black-throated Diver	Gavia arctica		484	97	48
Pacific Diver	Gavia pacifica		27	19	13
White-billed Diver	Gavia adamsii				1
unidentified divers	Gaviidae spp.		0.400	21	0.000
Little Grebe	Tachybaptus ruficollis		2,106	2,530	9,386
Red-necked Grebe	Podiceps grisegena		2,706	55	40
Great Crested Grebe Horned Grebe	Podiceps cristatus Podiceps auritus		2,706	2,100 71	4,865 226
Black-necked Grebe	Podiceps auntus Podiceps nigricollis		1,486	1,048	2,560
unidentified grebes	Podicipedidae spp.		2	2	2,500
Dalmatian Pelican	Pelecanus crispus	VU	15	14	15
Great Cormorant	Phalacrocorax carbo		15.548	17,893	23,575
Japanese Cormorant	Phalacrocorax capillatus		852	701	797
Pelagic Cormorant	Phalacrocorax pelagicus		123	81	533
unidentified cormorants	Phalacrocoracidae spp.		5	253	16
Grey Heron	Ardea cinerea		5,367	9,067	17,686
Eastern White Egret	Ardea modesta		3,502	4,561	6,856
Intermediate Egret	Ardea intermedia		1,311	94	594
Purple Heron	Ardea purpurea		4	16	20
Cattle Egret	Ardea (Bubulcus) ibis		556	177	946
Green-backed Heron	Butorides striatus		3	4	3
Chinese Pond Heron	Ardeola bacchus		259	585	283
Pied Heron	Egretta picata		0.454	0.005	0.015
Little Egret	Egretta garzetta	VU	6,454 4	6,905	6,815
Chinese Egret Eastern Reef Heron	Egretta eulophotes Egretta sacra	VU	4	<u>13</u> 14	1 34
unidentified egrets	Egretta/Bubulcus spp.		25	34	183
Black-crowned Night-heron	Nycticorax nycticorax		1,678	1,385	12,857
Japanese Night-heron	Gorsachius goisagi	EN	7	1,000	12,001
Malayan Night-heron	Gorsachius melanolophus	2.1			1
unidentified night-heron	Nycticorax spp.				1
Eurasian Bittern	Botaurus stellaris		2	15	24
Yellow Bittern	Ixobrychus sinensis		16	6	31
Cinnamon Bittern	Ixobrychus cinnamomeus		5	4	8
Black Stork	Ciconia nigra		45	14	113
Oriental Stork	Ciconia boyciana	EN	1,435	1,946	2,463
unidentified storks	Ciconiidae spp.			24	
Black-headed Ibis	Threskiornis melanocephalus	NT		1	1
Eurasian Spoonbill	Platalea leucorodia		6,889	8,329	7,729
Black-faced Spoonbill unidentified spoonbills	Platalea minor Platalea spp.	EN	879	707	<u>845</u> 10
Lesser Whistling Duck	Dendrocygna javanica				5
Mute Swan	Cygnus olor		255	160	138
Whooper Swan	Cygnus cygnus		35,046	36,660	37,704
Tundra (Whistling) Swan	Cygnus columbianus		36,737	63,963	95,535
unidentified swans	Cygnus spp.		14,023	158	27
Swan Goose	Anser cygnoides	EN	45,572	55,169	98,116
Bean Goose	Anser fabalis		55,620	70,224	127,245
Greater White-fronted Goose	Anser albifrons		124,753	182,918	172,968
Lesser White-fronted Goose	Anser erythropus	VU	5	16,555	16,956
Greylag Goose	Anser anser		1	80	4,105
Bar-headed Goose	Anser indicus		1,759	3,955	5,330
Lesser Snow Goose	Chen (Anser) caerulescens		18	12	13
unidentified grey geese	Anser spp.		42,404	2,548	5,458
Canada Goose	Branta canadensis		31	28	10
Brent Goose	Branta bernicla	N/11	715	693	840
Red-breasted Goose	Branta ruficollis	VU	E 070	40.070	10,000
Ruddy Shelduck Common Shelduck	Tadorna ferruginea		5,078	10,070	18,883 32,361
Common Shelduck Cotton Pygmy Goose	Tadorna tadorna		20,556	24,293	32,301
Mandarin Duck	Nettapus coromandelianus Aix galericulata		27,680	30,510	25,768
Eurasian Wigeon	Anas penelope		200,530	190,619	183,275
American Wigeon	Anas americana		63	92	52
Falcated Duck	Anas anencana Anas falcata	NT	10,255	16,020	29,990
Gadwall	Anas strepera		20,253	23,018	25,489
Baikal Teal	Anas formosa	VU	290,482	306,137	458,039
Common Teal	Anas crecca		209,934	226,799	267,504
Mallard	Anas platyrhynchos		694,502	709,500	686,455
Spot-billed Duck	Anas poecilorhyncha		267,940	272,682	299,756
			. ,	,	,

Results: East Asia

English Name	Scientific Name	GTS ¹	2002	2003	2004
Northern Pintail	Anas acuta		214,429	209,106	206,163
Garganey	Anas querquedula		71	36	69
Northern Shoveler Red-crested Pochard	Anas clypeata Netta rufina		21,500 2	22,301	<u>26,548</u> 721
Canvasback	Aythya valisineria		10	16	2
Common Pochard	Aythya ferina		205,225	190,992	196,359
Baer's Pochard	Aythya baeri	VU	23	18	636
Ferruginous Duck	Aythya nyroca	NT			792
Tufted Duck	Aythya fuligula		97,728	85,999	133,921
Greater Scaup	Aythya marila Histrionicus histrionicus		<u>192,978</u> 2,425	217,098 2,340	272,309
Harlequin Duck Common Scoter	Melanitta nigra		2,425	<u>2,340</u> 8,902	1,698 8,828
Velvet Scoter	Melanitta fusca		1,785	444	332
Long-tailed Duck	Clangula hyemalis		4,602	927	406
Common Goldeneye	Bucephala clangula		10,428	15,439	18,583
Smew	Mergellus albellus		3,449	2,866	4,370
Red-breasted Merganser	Mergus serrator		6,113	5,219	3,669
Scaly-sided Merganser	Mergus squamatus	EN	2	10 7 17	34
Goosander unidentified ducks	Mergus merganser		11,384 126,931	12,747	12,858
Siberian Crane	Anatinae spp. Grus leucogeranus	CR	3,101	87,040 2,856	<u>89,198</u> 3,184
White-naped Crane	Grus vipio	VU	4,450	3,687	6,486
Common Crane	Grus grus		1,358	1,870	3,122
Hooded Crane	Grus monacha	VU	9,302	9,892	10,592
Black-necked Crane	Grus nigricollis	VU	3,261	3,488	3,562
Red-crowned Crane	Grus japonensis	EN	1,724	1,296	2,018
hybrid crane	Grus grus x Grus monacha		1		
Swinhoe's Rail	Coturnicops exquisitus	VU	10	13	<u>1</u> 5
Slaty-breasted Rail Water Rail	Gallirallus striatus Rallus aquaticus		4	2	<u> </u>
Brown Crake	Amaurornis akool		4	3	26
White-breasted Waterhen	Amaurornis phoenicurus		91	92	101
Ruddy-breasted Crake	Porzana fusca		16	5	33
Common Moorhen	Gallinula chloropus		850	1,240	2,074
Common Coot	Fulica atra		6,634	10,600	19,261
Pheasant-tailed Jacana	Hydrophasianus chirurgus				7
Greater Painted Snipe	Rostratula benghalensis		26 3,712	<u>18</u> 5,671	9
Eurasian Oystercatcher Black-winged Stilt	Haematopus ostralegus Himantopus himantopus		436	634	2,405
Pied Avocet	Recurvirostra avosetta		1,397	15,649	15,632
Northern Lapwing	Vanellus vanellus		4,249	5,063	9,547
Grey-headed Lapwing	Vanellus cinereus		316	312	209
Pacific Golden Plover	Pluvialis fulva		3,979	5,633	7,816
Grey Plover	Pluvialis squatarola		6,014	10,444	7,414
Great Ringed Plover	Charadrius hiaticula		17	12	
Long-billed Plover	Charadrius placidus		4 4 0	444	15
	Charadrius dubius		140	111	125
Little Ringed Plover	Charadrius dubius		1,596	1,425	125 2,720
Little Ringed Plover Kentish Plover	Charadrius alexandrinus		1,596 18,308	1,425 21,048	125 2,720 60,623
Little Ringed Plover Kentish Plover Lesser Sandplover			1,596 18,308 632	1,425 21,048 1,595	125 2,720 60,623 1,575
Little Ringed Plover Kentish Plover	Charadrius alexandrinus Charadrius mongolus		1,596 18,308	1,425 21,048	125 2,720 60,623
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii		1,596 18,308 632 41 3	1,425 21,048 1,595 380 3 1	125 2,720 60,623 1,575 895
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura		1,596 18,308 632 41 3 2	1,425 21,048 1,595 380 3 1 1 3	125 2,720 60,623 1,575 895 23
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala		1,596 18,308 632 41 3 2 3	1,425 21,048 1,595 380 3 1 1 3 1	125 2,720 60,623 1,575 895 23 1
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago		1,596 18,308 632 41 3 2 3 718	1,425 21,048 1,595 380 3 1 1 3	125 2,720 60,623 1,575 895 23 23 1 967
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago spp.		1,596 18,308 632 41 3 2 3 718 4	1,425 21,048 1,595 380 3 1 1 3 1 742	125 2,720 60,623 1,575 895 23 23 1 967 6
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago spp. Limnodromus scolopaceus	NT	1,596 18,308 632 41 3 2 3 718	1,425 21,048 1,595 380 3 1 1 3 1	125 2,720 60,623 1,575 895 23 23 1 967
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus	NT	1,596 18,308 632 41 3 2 3 718 4 21 1	1,425 21,048 1,595 380 3 1 1 3 1 742 23	125 2,720 60,623 1,575 895 23 23 1 967 6 33
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago spp. Limnodromus scolopaceus		1,596 18,308 632 41 3 2 3 718 4	1,425 21,048 1,595 380 3 1 1 3 1 742	125 2,720 60,623 1,575 895 23 23 1 967 6
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa limosa Limosa lapponica Numenius phaeopus		1,596 18,308 632 41 3 2 2 3 718 4 21 1 326 12 118	1,425 21,048 1,595 380 3 1 1 3 1 742 23 23 481 59 62	125 2,720 60,623 1,575 895 23 23 1 967 6 333 771 15 120
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa limosa Limosa lapponica Numenius phaeopus Numenius arquata		1,596 18,308 632 41 3 2 3 718 4 21 1 326 12 118 3,425	1,425 21,048 1,595 380 3 1 1 3 1 742 23 23 481 59 62 7,875	125 2,720 60,623 1,575 895 23 1 967 6 333 771 15 120 6,251
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew Far Eastern Curlew	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa laponica Numenius phaeopus Numenius arquata Numenius madagascariensis		1,596 18,308 632 41 3 2 2 3 718 4 21 1 326 12 118 3,425 8	1,425 21,048 1,595 380 3 1 1 742 23 23 481 59 62 7,875 8	125 2,720 60,623 1,575 895 23 1 967 6 333 771 15 120 6,251 5
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Eurasian Curlew Far Eastern Curlew unidentified curlews	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago megala Gallinago spp. Limnodromus scolopaceus Limnodromus scolopaceus Limnodromus scolopaceus Limnosa lapponica Numenius phaeopus Numenius phaeopus Numenius arquata Numenius madagascariensis Numenius spp.		1,596 18,308 632 41 3 2 3 718 4 21 1 326 12 118 3,425 8 10	1,425 21,048 1,595 380 3 1 1 3 1 742 23 23 481 59 62 7,875 8 338	125 2,720 60,623 1,575 895 23 23 1 967 6 33 33 771 15 120 6,251 5 1
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews Spotted Redshank	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa lapponica Numenius phaeopus Numenius madagascariensis Numenius madagascariensis Numenius spp. Tringa erythropus		1,596 18,308 632 41 3 2 3 718 4 21 1 326 12 118 3,425 8 10 2,507	1,425 21,048 1,595 380 3 1 3 1 742 23 23 481 59 62 7,875 8 338 12,370	125 2,720 60,623 1,575 895 23 23 1 967 6 33 33 771 15 120 6,251 5 120 6,251 5 16,136
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews Spotted Redshank Common Redshank	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa lapponica Numenius phaeopus Numenius nadagascariensis Numenius madagascariensis Numenius spp. Tringa erythropus Tringa totanus		1,596 18,308 632 41 3 2 3 718 4 21 118 326 12 118 3,425 8 10 2,507 376	1,425 21,048 1,595 380 3 1 1 742 23 23 481 59 62 7,875 8 338 12,370 278	125 2,720 60,623 1,575 895 23 1 967 6 33 771 15 120 6,251 5 1 16,136 1,266
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews Spotted Redshank	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa lapponica Numenius phaeopus Numenius madagascariensis Numenius madagascariensis Numenius spp. Tringa erythropus		1,596 18,308 632 41 3 2 3 718 4 21 11 326 12 118 3,425 8 10 2,507 376 432	1,425 21,048 1,595 380 3 1 1 742 23 23 481 59 62 7,875 8 338 12,370 278 1,214	125 2,720 60,623 1,575 895 23 1 967 6 33 771 15 120 6,251 5 120 6,251 5 1 16,136 1,266 970
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Eurasian Curlew Far Eastern Curlew unidentified curlews Spotted Redshank Common Redshank Marsh Sandpiper	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa lapponica Numenius phaeopus Numenius arquata Numenius madagascariensis Numenius spp. Tringa erythropus Tringa totanus Tringa stagnatilis		1,596 18,308 632 41 3 2 3 718 4 21 118 326 12 118 3,425 8 10 2,507 376	1,425 21,048 1,595 380 3 1 1 742 23 23 481 59 62 7,875 8 338 12,370 278	125 2,720 60,623 1,575 895 23 1 967 6 33 771 15 120 6,251 5 1 16,136 1,266
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew Far Eastern Curlew Unidentified curlews Spotted Redshank Common Redshank Marsh Sandpiper Common Greenshank Green Sandpiper	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago gallinago Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus scolopaceus Limnodromus scolopaceus Limnodromus scolopaceus Limnodromus scolopaceus Limnosa lapponica Numenius phaeopus Numenius phaeopus Numenius madagascariensis Numenius madagascariensis Numenius madagascariensis Numenius spp. Tringa erythropus Tringa totanus Tringa totanus Tringa nebularia Tringa ochropus Tringa glareola		1,596 18,308 632 41 3 2 3 718 4 21 1 326 12 118 3,425 8 10 2,507 376 432 1,580 154 431	1,425 21,048 1,595 380 3 1 1 742 23 23 481 59 62 7,875 8 338 12,370 278 1,214 1,535 157 609	125 2,720 60,623 1,575 895 23 1 967 6 333 771 15 120 6,251 5 120 6,251 1 16,136 1,266 970 2,611 230 635
Little Ringed Plover Kentish Plover Lesser Sandplover Greater Sandplover Eurasian Woodcock Latham's Snipe Pintail Snipe Swinhoe's Snipe Common Snipe unidentified snipe Long-billed Dowitcher Asian Dowitcher Black-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Bar-tailed Godwit Whimbrel Eurasian Curlew Far Eastern Curlew unidentified curlews Spotted Redshank Common Redshank Marsh Sandpiper Common Greenshank Green Sandpiper	Charadrius alexandrinus Charadrius mongolus Charadrius leschenaultii Scolopax rusticola Gallinago hardwickii Gallinago stenura Gallinago megala Gallinago megala Gallinago gallinago Gallinago spp. Limnodromus scolopaceus Limnodromus semipalmatus Limosa limosa Limosa lapponica Numenius phaeopus Numenius arquata Numenius madagascariensis Numenius madagascariensis Numenius spp. Tringa erythropus Tringa totanus Tringa totanus Tringa nebularia Tringa ochropus		1,596 18,308 632 41 3 2 3 718 4 21 118 326 12 118 3,425 8 10 2,507 376 432 1,580 154	1,425 21,048 1,595 380 3 1 1 742 23 23 481 59 62 7,875 8 338 12,370 278 1,214 1,535 157	125 2,720 60,623 1,575 895 23 1 967 6 333 771 15 120 6,251 5 1 16,136 1,266 970 2,611 230

English Name	Scientific Name	GTS ¹	2002	2003	2004
Grey-tailed Tattler	Heteroscelus brevipes		159	149	126
Ruddy Turnstone	Arenaria interpres		1,137	621	407
Red Knot	Calidris canutus		66		3
Great Knot	Calidris tenuirostris		64	302	180
Sanderling	Calidris alba		2,029	2,300	3,648
Red-necked Stint	Calidris ruficollis		979	732	1,886
Little Stint	Calidris minuta		<u>2</u> 66	8	3
Temminck's Stint Long-toed Stint	Calidris temminckii Calidris subminuta		576	68 144	40 617
Pectoral Sandpiper	Calidris melanotos		570	144	1
Sharp-tailed Sandpiper	Calidris acuminata			1	12
Curlew Sandpiper	Calidris ferruginea		2	•	261
Dunlin	Calidris alpina		51,412	120,325	89,725
Spoon-billed Sandpiper	Eurynorhynchus pygmaeus	EN	1	· ·	
Ruff	Philomachus pugnax		16	13	50
unidentified Calidris sandpipers	Calidris spp.		389	556	
Grey Phalarope	Phalaropus fulicarius			3	
unidentified shorebirds	Charadrii spp.		49,687	32,731	74,338
Black-tailed Gull	Larus crassirostris		21,319	30,728	16,251
Common (Mew) Gull	Larus canus		4,075	5,577	8,281
Glaucous-winged Gull	Larus glaucescens		16	35	24
Glaucous Gull	Larus hyperboreus		58	410	71
Iceland Gull	Larus glaucoides		29.642	<u> </u>	2
Herring Gull Heuglin's Gull	Larus argentatus Larus heuqlini		29,642 425	<u> </u>	27,981 262
Slaty-backed Gull	Larus schistisagus		4,536	2,026	3,345
Yellow-legged Gull	Larus cachinnans		4,530	2,020	293
Great Black-headed (Pallas's) Gull	Larus ichthvaetus		105	4	17
Common Black-headed Gull	Larus ridibundus		36,945	48,940	75,473
Saunders's Gull	Larus saundersi	VU	1,308	1,568	2,509
Relict Gull	Larus relictus	VU	.,	2	3,367
Black-legged Kittiwake	Larus tridactyla		71	105	45
unidentified gulls	Laridae spp.		579	1,501	5,084
Gull-billed Tern	Gelochelidon nilotica		5	6	3
Caspian Tern	Sterna caspia		219	521	999
(Greater) Crested Tern	Sterna bergii				2
0	Otama a la facilita da			0.1.0	
Common Tern	Sterna hirundo			210	18
Little Tern	Sterna albifrons		50	2	27
Little Tern Whiskered Tern			1,493		
Little Tern Whiskered Tern unidentified waterbirds	Sterna albifrons		1,493 5,610	2 74	27 3,947
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds	Sterna albifrons Chlidonias hybridus		1,493	2	27 3,947 4,180,979
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis	VU	1,493 5,610 3,366,770	2 74	27 3,947
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata	VU	1,493 5,610 3,366,770 26	2 74 3,582,202	27 3,947 4,180,979 1
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus	VU	1,493 5,610 3,366,770 26 287	2 74 3,582,202 36	27 3,947 4,180,979 1 2
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus	VU	1,493 5,610 3,366,770 26 287 23	2 74 3,582,202 36 31	27 3,947 4,180,979 1
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus	VU	1,493 5,610 3,366,770 26 287 23 27	2 74 3,582,202 36 31 3	27 3,947 4,180,979 1 2 37
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans	VU	1,493 5,610 3,366,770 26 287 23 27 98	2 74 3,582,202 36 31 3 140	27 3,947 4,180,979 1 2 37 159
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster		1,493 5,610 3,366,770 26 287 23 27 98 0	2 74 3,582,202 36 31 3 140 0	27 3,947 4,180,979 1 2 37 159 4
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-tailed Eagle	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla	NT	1,493 5,610 3,366,770 26 287 23 27 98 0 15	2 74 3,582,202 36 31 3 140 0 22	27 3,947 4,180,979 1 2 37 159
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60	2 74 3,582,202 36 31 3 140 0 22 3	27 3,947 4,180,979 1 2 37 159 4 38
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla	NT	1,493 5,610 3,366,770 26 287 23 27 98 0 15	2 74 3,582,202 36 31 3 140 0 22	27 3,947 4,180,979 1 2 37 159 4 38 456
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149	2 74 3,582,202 36 31 3 140 0 22 3 475	27 3,947 4,180,979 1 2 37 159 4 38
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32	2 74 3,582,202 36 31 3 140 0 22 3 475 39	27 3,947 4,180,979 1 2 37 159 4 38 456 26
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 2 3	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus pelagicus Aegypius monachus Circus spilinotus Accipiter gularis Accipiter nisus Accipiter gentilis Buteo buteo	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 1 2 2 2 3 70	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 9 5 1 9 5 61	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 99
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-bellied Fish-eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus pelagicus Aegypius monachus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo hemilasius	NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 149 32 1 2 2 3 3 70 2	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 4	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-bellied Fish-eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus pelagicus Aegypius monachus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo lagopus	NT VU NT	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 149 32 1 1 2 2 3 70 70 2 2	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 4 5	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 9 99 1
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-bellied Fish-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo lagopus Aquila clanga	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 149 32 149 32 1 2 2 3 3 70 2 2 2 2 2	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 5 1 1 9 5 61 4 5 61 4 5 1	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 9 99 1 1 3
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Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Korthern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo lagopus Aquila clanga Aquila chrysaetos Falco tinnunculus	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 475 39 5 1 1 9 5 61 4 5 61 4 5 61 4 5 6 1 2 6 84	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 9 99 1 1 3 4 2 119 4 18
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon unidentified raptors	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo hemilasius Buteo lagopus Aquila clanga Aquila chrysaetos Falco columbarius Falco peregrinus	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6 1	2 74 3,582,202 36 31 3 140 0 222 3 475 39 5 1 1 9 5 61 4 5 61 4 5 61 4 5 61 2 6 6 84 3 12	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 9 99 1 1 3 4 4 2 119 4 18 2
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Korthern Goshawk Common Buzzard Upland Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon unidentified raptors White-throated Kingfisher	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo lagopus Aquila clanga Aquila clanga Aquila chrysaetos Falco columbarius Falco peregrinus Halcyon smyrnensis	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6 1 18	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 475 39 5 61 475 39 5 61 475 39 5 61 6 1 6 84 3 12 49	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 9 9 9 9 9 9 9 1 1 3 4 2 119 4 18 2 22
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Korthern Goshawk Common Buzzard Upland Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon unidentified raptors White-throated Kingfisher Black-capped Kingfisher	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo hemilasius Buteo lagopus Aquila clanga Aquila chrysaetos Falco peregrinus Halcyon smyrnensis Halcyon pileata	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6 1 18 8	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 4 7 5 61 4 5 61 4 5 6 6 84 3 12 49 22	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 99 99 1 1 3 4 2 119 4 18 2 22 15
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon unidentified raptors White-throated Kingfisher Black-capped Kingfisher	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo lagopus Aquila clanga Aquila clanga Aquila clanga Aquila clanga Falco columbarius Falco peregrinus Halcyon smyrnensis Halcyon pileata Alcedo atthis	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6 1 18 8 51	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 4 7 5 61 4 5 61 4 5 6 6 84 3 12 6 84 3 12 22 82	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 99 1 1 3 4 2 119 4 18 2 22 15 85
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon unidentified raptors White-throated Kingfisher Black-capped Kingfisher Pied Kingfisher	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo hemilasius Buteo lagopus Aquila clanga Aquila chrysaetos Falco columbarius Falco peregrinus Halcyon smyrnensis Halcyon pileata Alcedo atthis Ceryle rudis	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6 1 18 8	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 4 5 61 4 5 61 4 5 61 4 5 61 4 5 61 4 5 61 4 9 5 61 4 9 5 61 1 2 2 6 84 3 12 2 2 82 10	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 9 9 9 9 9 9 9 1 1 3 4 2 2 119 4 18 2 22 15 85 16
Little Tern Whiskered Tern unidentified waterbirds Total Waterbirds Laysan Albatross Rhinoceros Auklet Ancient Murrelet Osprey Black-shouldered Kite Black Kite White-bellied Fish-eagle White-bellied Fish-eagle White-tailed Eagle Steller's Sea-eagle Cinereous Vulture Hen Harrier Eastern Marsh Harrier Japanese Sparrowhawk Eurasian Sparrowhawk Eurasian Sparrowhawk Northern Goshawk Common Buzzard Upland Buzzard Rough-legged Hawk Greater Spotted Eagle Imperial Eagle Golden Eagle Common Kestrel Merlin Peregrine Falcon unidentified raptors White-throated Kingfisher Black-capped Kingfisher	Sterna albifrons Chlidonias hybridus Phoebastria immutabilis Cerorhinca monocerata Synthliboramphus antiquus Pandion haliaetus Elanus caeruleus Milvus migrans Haliaeetus leucogaster Haliaeetus albicilla Haliaeetus pelagicus Aegypius monachus Circus cyaneus Circus spilinotus Accipiter gularis Accipiter gentilis Buteo buteo Buteo lagopus Aquila clanga Aquila clanga Aquila clanga Aquila clanga Falco columbarius Falco peregrinus Halcyon smyrnensis Halcyon pileata Alcedo atthis	NT VU NT VU	1,493 5,610 3,366,770 26 287 23 27 98 0 15 60 149 32 1 2 2 3 70 2 2 2 3 70 2 2 3 70 2 2 5 4 82 2 6 1 18 8 51	2 74 3,582,202 36 31 3 140 0 22 3 475 39 5 1 1 9 5 61 4 7 5 61 4 5 61 4 5 6 6 84 3 12 6 84 3 12 22 82	27 3,947 4,180,979 1 2 37 159 4 38 456 26 1 1 1 8 9 99 1 1 3 4 2 119 4 18 2 22 15 85

Results: East Asia

English Name	Scientific Name	GTS	2002	2003	2004
Yellow Wagtail	Motacilla flava			13	
Japanese Wagtail	Motacilla grandis			47	43
unidentified wagtails	Motacilla spp.				1
Water Pipit	Anthus spinoletta			1	
Oliver-backed Pipit	Anthus hodgsoni			30	23
Buff-bellied Pipit	Anthus rubescens			815	647
unidentified pipit	Anthus spp.		20		

Note:

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4.2 China

The AWC was coordinated separately in Mainland China, Hong Kong, Macao and Taiwan. Details of the AWC in each region are given in the sections below.

3.4.2.1 Mainland China

Ninety-five sites were surveyed during 2002–2004 (Figure 25 and Table 40), a much higher number than in previous years (see Li and Mundkur 2004). Waterbird totals recorded were 290,802 (18 sites), 443,088 (43 sites) and 842,344 (72 sites) in AWC 2002, 2003 and 2004, respectively. The increase in the number of sites surveyed in 2003 and 2004 was a result of the large-scale waterbird surveys carried out by Wetlands International – China Office in 2003 (Barter and Lei 2003) and WWF – China Office in 2004 (Barter *et al.* 2004) in the Lower Yangtze provinces. In addition, data published in Yang (2005) and in *China Crane News*, Cumulative Vols. 11, 13, 14 and 15 (Wang *et al.* 2002, 2003a,b, 2004) are also included in this report. However, information cited from Yang (2005) and in *China Crane News* in Yunnan and Guizhou provinces focussed mainly on cranes and other large waterbird species, therefore these data do not fully represent the abundance and diversity of waterbirds recorded.

The sites counted for the AWC included 12 Ramsar sites, one MAB Biosphere Reserve, 23 IBAs and nine EAAF Migratory Waterbird Network sites.

Seven sites recorded more than 20,000 waterbirds: Anqingyanjiang Nature Reserve (NR) (total count of 10 sub-sites recorded 138,066 individuals in 2004), Sheng Jin Hu NR (33,775 in 2004), East Dongting Lake NR (82,730 in 2003 and 81,386 in 2004), South Dongting Lake NR (32,728 in 2004), Yancheng NR, which covers the entire coast of Jiangsu Province (131,867 in 2004), Poyang Lake (including the Poyang Lake NR, which recorded more than 200,000 waterbirds in all three years, with a highest count of 272,218 in 2004) and Lashihai Lake NR (21,707 in 2004). A total of 38 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Totals of 115 waterbird, six raptor and four kingfisher species were recorded (Table 41). The highest count totals were for Swan Goose (98,080 in 2004), Bean Goose (80,868 in 2004), Greater White-fronted Goose (52,909 in 2003), Dunlin (52,508 in 2003), Common Black-headed Gull (51,700 in 2004), Tundra Swan (50,168 in 2004), Common Teal (43,246 in 2004) and Spot-billed Duck (32,719 in 2004).

Highest count totals of 17 globally threatened species were as follows: Critically Endangered: Siberian Crane (3,184 in 2004, mainly at Poyang Lake); Endangered: Oriental Stork (2,453 in 2004), Black-faced Spoonbill (2 in 2004), Swan Goose (98,080 in 2004), Scaly-sided Merganser (31 in 2004) and Red-crowned Crane (612 in 2004); Vulnerable: Chinese Egret (13 in 2003), Lesser White-fronted Goose (16,947 in 2004), Baikal Teal (28 in 2004), Baer's Pochard (630 in 2004), White-naped Crane (3,463 in 2004), Hooded Crane (933 in 2004), Black-necked Crane (3,526 in 2004), Swinhoe's Rail (1 in 2004), Saunders's Gull (532 in 2004), Relict Gull (3,367 in 2004) and Imperial Eagle (1 in 2003).

Highest count totals of the four Near Threatened species were: Falcated Duck (18,381 in 2004), Ferruginous Duck (792 in 2004), Black-tailed Godwit (372 in 2004) and White-tailed Eagle (1 in 2004). The records for Siberian Crane (3,184 in 2004) and Swan Goose (98,080 in 2004) are very close to the upper limit of the population estimate of 3,200 and 60,000–100,000 respectively (Wetlands International 2006) and indicate that the population size may need to be revised upwards (see Section 3.6).

Major threats to the wetlands included reclamation, pollution, over-fishing, human disturbance and hunting of waterbirds. The census was coordinated by Wetlands International – China Office.

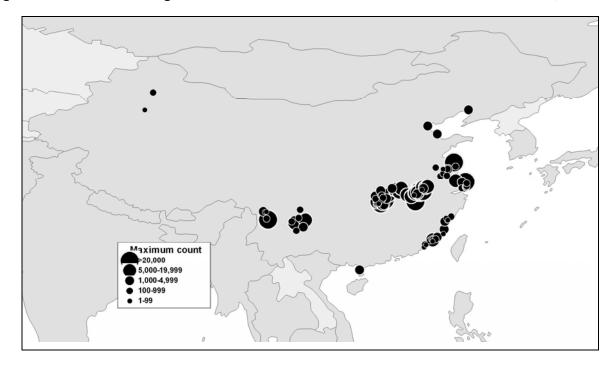


Figure 25: AWC site coverage and numerical distribution of waterbirds in Mainland China, 2002–2004

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Anhui	Anqingyanjiang Nature Reserve (NR): Baidang Hu	I, S				17,007
Anhui	Angingyanjiang NR: Bo Hu					13,755
Anhui	Anqingyanjiang NR: Caizi Hu				18,868	19,001
Anhui	Angingyanjiang NR: Daguan Hu					6,974
Anhui	Anqingyanjiang NR: Fengsha Hu					13,688
Anhui	Anqingyanjiang NR: Huang Hu					4,838
Anhui	Anqingyanjiang NR: Long Gan Hu (Long Hu)					8,766
Anhui	Angingyanjiang NR: Pogang Hu					1,487
Anhui	Angingyanjiang NR: Qili He					99
Anhui	Anqingyanjiang NR: Wuchang Hu				7,056	52,451
Anhui	Sheng Jin Hu NR	I, C, S		30,744	3,383	33,775
Fujian	Ganwen Farm, Zhini Town		HIL		481	
Fujian	Gongkou Gang, Dongshan Bay	pl	8		38	
Fujian	Houkeng Reservoir, Heshan Town	•	8		31	
Fujian	Huagiao Farm, Jiangjing Town		8CDI		2,739	
Fujian	Hutou Mudflat, Baishi Town		38AI		43	
Fujian	Jinshetou Bay, Jiaocheng District		8		1,214	
Fujian	Leichun Xi (River), Banzhong Town		8A		88	
Fujian	Qingyutou Mudflat, Diantou Town		8		197	
Fujian	Quanzhou Bay		81		3,884	
Fujian	Shaxi Town Wetland		8CDI		88	
Fujian	Tangdong Mudflat		81			720
Fujian	Wanwu Town Harbour Mudflat		38AI		41	
Fujian	Wenshi River, Pinghai Town		8		41	
Fujian	Xiamen Coast		8D			5,790
Fujian	Xiamen Coast: Aotou Mudflat		8		542	
Fujian	Xiamen Coast: Fenglin Mangrove		8		258	
Fujian	Xintang Mangrove, Funing Bay	pl	8		10	
Fujian	Zhangjiang Rivermouth	•	468ABCG		972	
Guangdong	Zhanjiang NR (includes 17 sub-sites)	R			3,849	
Guizhou	Caohai NR	I, C		2,113	2,727	12,470
Hubei	Chang Hu					1,446
Hubei	Changjiangudao Baijitun NR					294
Hubei	Chen Hu NR	I		500	12,064	15,985

Province	Site Name	Status ¹	Threats ²	2002	2003	2004
Hubei	Diaocha Hu					1,536
Hubei	Hong Hu NR				6,176	1,355
Hubei	Liangzi Hu				5,460	388
Hubei	Long Gan Hu	I		23		
Hubei	Tian Er Zhou Milu NR					413
Hubei	Wang Hu and Supo Hu					8,664
Hubei	Zhangdu Hu Lakes					17,431
Hunan	Beiming Hu					3,008
Hunan	Changjiang River Bank					3,182
Hunan	Datong Hu					1,129
Hunan	Dong Hu					486
Hunan	East Dongting Lake NR	R, I	8AFHI		82,730	81,386
Hunan	Fangtai Hu					160
Hunan	Helong Hu – Baini Hu				40.440	1,768
Hunan	Heng Ling Hu – He Ye Hu				13,118	446
Hunan	Hongxingyuan					535
Hunan	Kongjia Hu					196
Hunan Hunan	Longchi Hu Maoli Hu					94 679
		R			769	
Hunan Hunan	South Dongting Lake NR Taibai Hu	ĸ			768	<u>32,728</u> 1,350
Hunan	West Dongting Lake NR	R			1,448	5,678
Hunan	Yujiaqiao	ĸ			1,440	481
Jiangsu	Baoying Hu					2
Jiangsu	Chuhe River Mouth					184
Jiangsu	Dazong Lake					222
Jiangsu	Gaoyou and Shabo Lakes	1				723
Jiangsu	Hongze Hu					972
Jiangsu	Qilihe River Mouth	1				1,003
Jiangsu	Shagou Town, Xinghua City					570
Jiangsu	Shang Hu					11,220
Jiangsu	Yancheng NR: Core Area only	R, I, C,		463		,==0
Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	S, M				131,867
Jiangsu	Yangzhong (Baoqiao Town and Leigong Island)	- ,				900
Jiangxi	Poyang Lake (whole lake and adjacent lakes)	R, I, C			206,666	272,218
Jiangxi	Poyang Lake NR (part of Poyang Lake)	,,,-	8AFHI	245,184	/	1 -
Jiangxi	Sai Cheng Hu			2,000	16,452	
Liaoning	Shuangtai Hekou NR	R, I, C, S	48BI	,	,	1,384
Shandong	Yellow River Delta NR	I, C, S		2,626		
Shanghai	Baoshan Shidongkou – Liuhe					1,924
Shanghai	Chongming Island NR	R, I, S			37,721	3,783
Shanghai	Donghai Nongchang – Binghai Nongchang		KL			371
Shanghai	Fengxin – Tuolin – Xinghuo Nongchang (Hangzhou Bay)					1,143
Shanghai	Hensha Island					430
Shanghai	Jinshan,Chaojin – Fengxin					143
Shanghai	Liaoyuan Nongchang – Wusi Nongchang – Luchaogang (Wusi coast)					346
Shanghai	Luchaogang – Donghai Nongchang (Yangtse Estuary near Nannhui)					701
Tianjin	Tianjin Haibin Yuchang (Fish Farm)		9BIL			4,162
Xinjiang	Qiala Reservoir		4678DFHIK		52	.,
Xinjiang	Wulabo Reservoir		67FHIK		385	69
Yunnan	Bitahai Lake NR	R		23	34	35
Yunnan	Dashanbao NR	R, I, C		1,062	1,639	1,630
Yunnan	Huize County			2,297	5,711	3,990
Yunnan	Lashihai Lake NR	R, I	6CL	1,313	2,268	21,707
Yunnan	Ludian County	,		54	376	275
Yunnan	Luguhu	1		67	175	226
Yunnan	Napahai NR	R, I		1,188	1,628	3,290
Yunnan	Qiaojia County	,		462	675	328
Yunnan	Shuduhu					60
Yunnan	Xundian County			234	582	931
Yunnan	Yongshan County			453	509	544

Status¹: R – Ramsar site, pR – part of a Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), M –MAB Biosphere Reserve, A – Anatidae site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, C – Crane site of the Migratory Waterbird Network in the North East Asian Flyway, S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, N – Crane site of the Australasian Flyway.

Asian – Australiasian Flyway, C – Crane site of the Migratory Waterbind Network in the North East Asian Flyway, S – Shorebind site of the Migratory Waterbind Network in the North East Asian Flyway, S – Shorebind site of the Migratory Waterbind Network in the North East Asian Flyway, S – Shorebind site of the Migratory Waterbind Network in the East Asian – Australasian Flyway. Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/recreation.

Table 41: Waterbird species counts reported during the AWC in Mainland China, 2002–2004	4
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English Name	Scientific Name	GTS ¹	2002	2003	2004
Red-throated Diver	Gavia stellata			12	1
unidentified divers	Gaviidae spp.		20	21	7 400
Little Grebe Great Crested Grebe	Tachybaptus ruficollis Podiceps cristatus		30	<u>1,055</u> 64	7,428
Horned Grebe	Podiceps auritus			04	2,097
unidentified grebes	Podicipedidae spp.			2	
Great Cormorant	Phalacrocorax carbo		300	2,190	4,996
Pelagic Cormorant	Phalacrocorax pelagicus			13	
Grey Heron	Ardea cinerea		317	4,613	12,395
Eastern White Egret	Ardea modesta			2,019	2,998
Intermediate Egret	Ardea intermedia		1,000	7	90
Purple Heron	Ardea purpurea			1	11
Cattle Egret	Ardea (Bubulcus) ibis			11	2
Chinese Pond Heron	Ardeola bacchus			214	16
Little Egret	Egretta garzetta	1/11	500	3,085	1,271
Chinese Egret Eastern Reef Heron	Egretta eulophotes	VU		13	
unidentified egrets	Egretta sacra Egretta/Bubulcus spp.			33	177
Black-crowned Night-heron	Nycticorax nycticorax			39	10,611
Eurasian Bittern	Botaurus stellaris			8	20
Yellow Bittern	Ixobrychus sinensis			1	20
Black Stork	Ciconia nigra		44	12	108
Oriental Stork	Ciconia boyciana	EN	1,424	1,944	2,453
unidentified storks	Ciconiidae spp.		,	24	,
Eurasian Spoonbill	Platalea leucorodia		6,842	8,290	7,578
Black-faced Spoonbill	Platalea minor	EN		1	2
unidentified spoonbills	Platalea spp.				10
Whooper Swan	Cygnus cygnus		77	33	17
Tundra (Whistling) Swan	Cygnus columbianus		2,017	24,600	50,168
unidentified swans	Cygnus spp.		13,700		
Swan Goose	Anser cygnoides	EN	45,560	55,153	98,080
Bean Goose	Anser fabalis		12,300	25,747	80,868
Greater White-fronted Goose	Anser albifrons Anser erythropus	VU	37,585	52,909 16,551	50,117 16,947
Greylag Goose	Anser erythropus Anser anser	VU		80	4,102
Bar-headed Goose	Anser indicus		1,759	3,955	5,330
unidentified grey geese	Anser spp.		41,166	2,473	5,214
Red-breasted Goose	Branta ruficollis	VU	,	_,o	1
Ruddy Shelduck	Tadorna ferruginea		3,442	8,345	17,383
Common Shelduck	Tadorna tadorna			257	563
Cotton Pygmy Goose	Nettapus coromandelianus			2	
Mandarin Duck	Aix galericulata			12	752
Eurasian Wigeon	Anas penelope		18	2,004	6,009
Falcated Duck	Anas falcata	NT	100	4,593	18,381
Gadwall	Anas strepera			67	2,698
Baikal Teal	Anas formosa	VU		40.500	28
Common Teal	Anas crecca		30	10,506	38,013
Mallard	Anas platyrhynchos		258	2,009	11,604
Spot-billed Duck Northern Pintail	Anas poecilorhyncha Anas acuta		227	<u>11,703</u> 1,627	28,667 6,924
Garganey	Anas querquedula			1,027	15
Northern Shoveler	Anas duerquedula Anas clypeata			854	3,815
Red-crested Pochard	Netta rufina			004	720
Common Pochard	Aythya ferina			146	2,827
Baer's Pochard	Aythya baeri	VU	19	6	630
Ferruginous Duck	Aythya nyroca	NT			792
Tufted Duck	Aythya fuligula			175	3,817
Greater Scaup	Aythya marila		4	10	
Common Goldeneye	Bucephala clangula			3	48
Smew	Mergellus albellus			94	1,901
Red-breasted Merganser	Mergus serrator			2	6
Scaly-sided Merganser	Mergus squamatus	EN			31
Goosander	Mergus merganser			129	2,729
unidentified ducks	Anatinae spp.	05	57,590	31,000	29,564
Siberian Crane	Grus leucogeranus	CR	3,101	2,856	3,184
White-naped Crane	Grus vipio	VU	1,276	111	3,463
Common Crane Hooded Crane	Grus grus	VU	1,358 674	<u>1,867</u> 806	<u>3,121</u> 933
Black-necked Crane	Grus monacha Grus nigricollis		3,261	3,488	<u>933</u> 3,562
Red-crowned Crane		EN	<u>3,261</u> 371	3,488	3,562
Red-crowned Crane	Grus japonensis	EIN	3/1		012

English Name	Scientific Name	GTS ¹	2002	2003	2004
Swinhoe's Rail	Coturnicops exquisitus	VU			1
Slaty-breasted Rail	Gallirallus striatus			6	
Water Rail	Rallus aquaticus				1
Brown Crake	Amaurornis akool			3	26
White-breasted Waterhen Common Moorhen	Amaurornis phoenicurus			<u>12</u> 504	4 788
Common Coot	Gallinula chloropus Fulica atra			1,939	10,863
Eurasian Oystercatcher	Haematopus ostralegus			1,939	26
Black-winged Stilt	Himantopus himantopus			15	
Pied Avocet	Recurvirostra avosetta			12,466	12,023
Northern Lapwing	Vanellus vanellus		2,000	3,888	8,480
Grey-headed Lapwing	Vanellus cinereus		10	9	5
Pacific Golden Plover	Pluvialis fulva		-	1	-
Grey Plover	Pluvialis squatarola			4,770	1,597
Long-billed Plover	Charadrius placidus			12	4
Little Ringed Plover	Charadrius dubius			546	36
Kentish Plover	Charadrius alexandrinus			9,871	40,657
Lesser Sandplover	Charadrius mongolus				49
Greater Sandplover	Charadrius leschenaultii			172	
Pintail Snipe	Gallinago stenura			1	23
Swinhoe's Snipe	Gallinago megala			4.40	1
Common Snipe	Gallinago gallinago			148	331
unidentified snipe	Gallinago spp. Limosa limosa			137	6 372
Black-tailed Godwit Bar-tailed Godwit	Limosa limosa Limosa lapponica			39	312
Eurasian Curlew	Numenius arguata			630	2,592
Spotted Redshank	Tringa erythropus			12,361	15,760
Common Redshank	Tringa totanus			119	988
Marsh Sandpiper	Tringa stagnatilis			28	5
Common Greenshank	Tringa nebularia			518	896
Green Sandpiper	Tringa ochropus			44	113
Wood Sandpiper	Tringa glareola			12	2
Terek Sandpiper	Xenus cinereus			3	2
Common Sandpiper	Actitis hypoleucos			95	261
Grey-tailed Tattler	Heteroscelus brevipes			1	
Ruddy Turnstone	Arenaria interpres			5	53
Red Knot	Calidris canutus				1
Great Knot	Calidris tenuirostris			300	19
Sanderling Red-necked Stint	Calidris alba Calidris ruficollis				<u>1,547</u> 120
Temminck's Stint	Calidris temminckii			10	8
Curlew Sandpiper	Calidris ferruginea			10	5
Dunlin	Calidris alpina			52,508	49,700
Ruff	Philomachus pugnax			1	40,700
unidentified shorebirds	Charadrii spp.		45,220	30,436	72,213
Black-tailed Gull	Larus crassirostris		,	4,602	247
Common (Mew) Gull	Larus canus			36	1,295
Herring Gull	Larus argentatus		1,233	8,970	6,372
Slaty-backed Gull	Larus schistisagus			3	865
Great Black-headed (Pallas's) Gull	Larus ichthyaetus		1	3	16
Common Black-headed Gull	Larus ridibundus			9,709	49,291
Saunders's Gull	Larus saundersi	VU	8	38	532
Relict Gull	Larus relictus	VU	070		3,367
unidentified gulls	Laridae spp.		370	9	4,857
Caspian Tern	Sterna caspia			11	11
Common Tern Whiskered Tern	Sterna hirundo			210	
unidentified waterbirds	Chlidonias hybridus		5,610	30	
Total Waterbirds			290,802	443,088	842,344
Osprey	Pandion haliaetus		200,002	<u>443,088</u> 3	072,074
Black-shouldered Kite	Elanus caeruleus			3	
Black Kite	Milvus migrans			1	
White-tailed Eagle	Haliaeetus albicilla	NT			1
Hen Harrier Imperial Eagle	Circus cyaneus Aguila heliaca	VU	3		4
White-throated Kingfisher	Aquila nellaca Halcyon smyrnensis	VU	1	10	
Black-capped Kingfisher	Halcyon pileata			8	
Common Kingfisher	Alcedo atthis			24	35
Pied Kingfisher	Ceryle rudis			1	8
White Wagtail	Motacilla alba			36	
Yellow Wagtail Water Pipit	Motacilla flava Anthus spinoletta			<u>12</u> 1	
	Antinus spirioleud				

 Water Pipit
 Anthus spinoletta
 1

 Note:
 GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.
 1

3.4.2.2 Hong Kong

Three sites were surveyed in all three years, with 52,068, 54,447 and 40,116 waterbirds recorded in 2002, 2003 and 2004 respectively (Figure 26 and Table 42). The Deep Bay area recorded more than 20,000 waterbirds in all three years and retains its international importance; the site also recorded more than 1% of the biogeographic population of 10 waterbird species. Details of the census results were published in Carey (2002) and Yu (2003a, 2004a).

A total of 66 waterbird, six raptor and four kingfisher species were recorded (Table 43). The most numerous species recorded were Common Black-headed Gull (13,009 in 2002), Great Cormorant (9,011 in 2004), Northern Pintail (4,381 in 2003), Eurasian Wigeon (4,080 in 2003), Common Teal (3842 in 2003), Pied Avocet (3,500 in 2004), Spotted Redshank (2,500 in 2002) and Dunlin (2,430 in 2004).

Six globally threatened species were recorded: Endangered: Oriental Stork (1 in 2004) and Black-faced Spoonbill (240 in 2004); Vulnerable: Dalmatian Pelican (15 in 2002), Saunders's Gull (34 in 2003), Greater Spotted Eagle (2 in 2002) and Imperial Eagle (3 in 2002). Near Threatened species recorded were Falcated Duck (5 in 2003) and Black-tailed Godwit (390 in 2004).

Sedimentation and water pollution are the major threats to the quality of the intertidal mudflats in Deep Bay. Encroachment by mangrove trees has also decreased the open area of mudflat. The abandonment of fish farms and changes in fish-farming practices have reduced their ecological value to waterbirds. Waterbirds are disturbed by the activities of illegal cross-border fishermen, who also occasionally trap the birds for additional income.

The census was coordinated by the Hong Kong Bird Watching Society.

Figure 26: AWC site coverage and numerical distribution of waterbirds in Hong Kong and Macao, 2002–2004

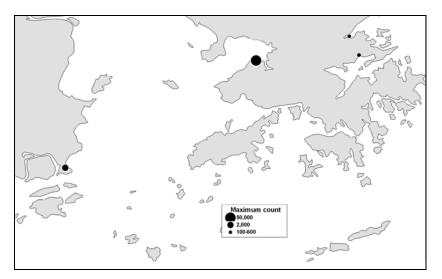


Table 42: Wetland sites surveyed during the AWC in Hong Kong, 2002–2004

Site Name	Status ¹	Threats	2002	2003	2004
Deep Bay: Combined	R, I, A, S	Sedimentation	51,500	54,014	39,440
Starling Inlet (Yim Tso Ha)			588	500	543
Shuen Wan			166	172	133

Note:

Status¹: R – Ramsar site, I – Wetland IBA identified by BirdLife International (2005), A – Anatidae site of the Migratory Waterbird Network in the East Asian Flyway, S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway.

Little Grebe Techpapua n/nollis 148 192 197 Creat Crestel Crebe Pedicanus crispus VU 15 14 135 Dainatian Pelican Pedicanus crispus VU 15 144 13 Great Commont Pradiscoccous carbo 6.241	English Name	Scientific Name	GTS ¹	2002	2003	2004
Datmatian Pelican Pelecanus crispus VU 15 14 13 Great Commont Phalacconcors carbo 6.424 8.047 9.011 Grey Heon Ardea concess 1.403 1.039 824 Eastern White Egret Ardea rotesta 1.381 1.447 828 Intermediate Egret Ardea rotesta 1.31 10 9 Cargen backed Heron Auroka rotesta 1.31 1 1 9 Cargen backed Heron Auroka boohus 228 324 204 Little Egret Egret protein garzenta 1.445 1.72 1.752 Black-coronel Night-Heron Mycicoara mycotoara EN 1 1 2 Common Shindouck Caraba borone 1.83 200 400 108 1 <	Little Grebe			-	162	-
Great Cormorant Phalecrocorac carbo 6.424 8.047 9.011 Cartey Heron Ardea nimerea 1.031 1.039 824 Eastern White Egret Ardea nimerea 1.031 1.047 826 Cartle Egret Ardea nimeredia 6 1.11 10 Purgle Heron Ardea (Enclusic) bis 28 46 60 Cartle Egret Ardea (Enclusic) bis 28 46 60 Green-Laacked Heron Eutoclose stratus 139 146 1726 1726 Diack Aced Sponbil Plate Den Infor N 4 2 2 Black Convende Denotition FN 1 1 1 1 Eurasian Sponohil Platela Intor EN 1 1 1 1 1 1 1 2 2 1						
Grey Heon Ardea nodesia 1.403 1.039 824 Intermediate Egret Ardea nodesta 1.381 1.647 826 Intermediate Egret Ardea neuronedia 6 1.1 10 Cattle Egret Ardea pupurae 7 3 Cattle Egret Ardea (Bubucus) bis 28 45 69 Green-backed Heron Ardea (Bubucus) bis 1 1 1 1 Chrises Pond Heron Ardea (Bubucus) bis 128 1.152 1.152 1.152 Bisch Egret Ardea (Bubucus) bis 1.44 2 2 28 Untils Egret Ardea (Bubucus) bis 1.152 1.152 1.152 Bisch Egret Status 1 1.2 2 2 Common Feel Arado Qubuc Arnas parekope 3.797 4.080 400 Falated Duck Arnas parekope 3.164 3.42 1.35 Common Feel Aras Status 1 1 2.05 4.381 1.460 Gragravy Aras gatyrhynchos		1	VU			
Eastern White Egret Ardea intermedia 6 11 10 Purgle Heron Ardea intermedia 6 11 10 Purgle Heron Ardea (Bublicus) bis 28 45 69 Cattle Egret Ardea (Bublicus) bis 28 45 69 Green backed Heron Butorides stratus 1 1 1 1 Chinese Pond Heron Ardea (Bublicus) bis 28 324 204 Liftle Egret Ardea intermoticus 28 324 204 Liftle Egret Back-Boorde 10 2 2 Biack-Boorde Might-Heron Platable alexorde 1 2 2 Biack-Boorde Spoordell Platable alexorde NT 5 5 Common Teal Arase palex/tyrnches 1 1 2 Sopt-biled Duck Arase palex/tyrnches 1 1 2 Sopt-biled Duck Arase palex/tyrnches 1 1 2 Sopt-biled Duck Arase palex/tyrnches 1 1<						,
Intermediate Egret Ardee junguree 7 10 Cattle Egret Ardee (Bunkucu) bis 28 45 69 Cattle Egret Ardee (Bunkucu) bis 28 45 69 Green-backed Heron Ardeo la bacchus 228 324 204 Uitte Egret Ardeo la bacchus 218 324 204 Uitte Egret Ardeo la bacchus 1 1 1 1 Chrines Pond Heron Ardeola bacchus EN 1 21 21 Black-cowned Night-Enron Myceorax nycelcorax EN 2 2 Oriental Stork Checna boycean EN 1 1 2 Common Stelan Aras as procean 3,164 3,842 1,331 Eurasian Wigeon Aras as poecion/yncha 83 24 15 Common Teal Aras as querquedule 28 16 7 Mallard Aras guerquedule 28 16 7 Gargarey Aras guerquedule 28 168				1	,	-
Purgle Heron Arrdae Bubulcus) bis 28 45 69 Green-backed Heron Butorides stributs 1 1 1 1 Crinese Fond Heron Arrdae Bubulcus) bis 228 324 204 Little Egret Egreth across stributs 228 324 204 Little Egret Egreth across writeforax 139 146 27 Oriental Stork Chone boycena EN 4 2 2 Black-Baced Spoorbil Plettale across writeforax 139 146 27 Common Teal Anas oneca 3,79 4,080 160 Laussian Wignetch Anas falciata NT 5 1 1 2 Common Teal Anas aceca 3,164 3,44 15 1 1 2 1						
Cattle Eyret Arde (Bubukus) bis 28 45 69 Creen-backed Heron Autoolo bacchus 228 324 204 Chiness Pand Heron Ardolo bacchus 228 324 204 Little Egret Egreta gazzeta 1.445 1,725 1,752 Black-crowned Night-Heron Myckorax myckicorax 139 146 27 Black-crowned Sporbhil Platalee Invocroalia A 2 2 Black-crowned Sporbhil Platalee Invocroalia N 4 2 2 Black-faced Sporbhil Platalee Invocroalia NT 5 5 5 Common Shelduck Tadoma tadoma 2.66 1.31 1 2 2 Malard Duck Anas facata NT 5 5 1 2 2 1.31 Malard Duck Anas guaruuedula 2.63 4.61 1.430 2 3 2 3 1 1 1 1 1 1 1				6		
Green-backed Heron Butorides stributs 1 1 1 1 Little Egret Egrets access 223 324 204 Little Egret Egrets access 1,445 1,725 1,725 Oriental Stork Cocinis boyciana EN 1 1 Little Egret Iterasian Spoorbil Platale leucorolia 4 2 2 Black-Roomed Night-Heron Little Leucorolia EN 183 230 240 Common Shelduck Tadora tadorna 268 192 188 1 1 2 Spot-billed Duck Anas partityrthorbo 1 1 2 3 16 1 1 2 Spot-billed Duck Anas guerquedula 28 16 1 1 2 3 Morthern Shiveler Anas guerquedula 103 4 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cattle Earet			28		
Chinese Pond Heron Ardeole bacchus 228 324 204 Little Egret Egreta gazeta 1,445 1,725 1,752 Black-crowned Night-heron Nyckcorax nyckcorax 139 146 27. Black-faced Spootbil Platabae leucorodia N 1 2. Black-faced Spootbil Platabae leucorodia N 2.0 2.0 Common Shelduck Tadorna tackorna 2.68 192 188 Eurasian Wigeon Anas panelope 3.777 4.080 400 Falcated Duck Anas falcata NT 5 5 Common Teal Anas acceca 3.164 3.842 1.31 Mallard Anas acceca 3.64 3.84 1.850 Sopt-billed Duck Anas actracea 2.609 4.381 1.480 Garganey Anas actracea 1.630 4.32 2.0 Under Mitch duck Anaty incurrence 1.7 1.7 1.7 Onthern Broweler Anas actracea 1.606 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Little Egret Egretia gazerata 1.445 1.725 1.725 Dienda Nighheron Nycicorax 139 146 27 Oriental Stork Ciconia boyclana EN 1 Lurasian Spoonbil Platale Leucrocha 4 2 2 Black Acad Spoonbil Platale Leucrocha EN 183 230 240 Common Shelcuck Tadoma tedoria 268 192 188 Eurasian Wigeon Anas percea 3,164 3,842 1,331 Fatated Duck Anas percea 3,164 3,842 1,341 Garganey Anas guerquedula 28 16 7 Northern Pintal Anas guerquedula 28 16 7 Ordena Pintal Anas guerquedula 103 439 1616 Turde Duck Anas guerquedula 13 4 3 1616 Turde Duck Anas guerguesula 17 100 184 1616 17 Turde Duck Anas guerguesula 17						
Black-incomed Night-Period Nycticorax rycticorax 139 146 27 Oriental Stork Ciconia boyciana EN 1 Eurasian Spoonbil Platalea leucorodia 4 2 2 Black-faced Spoonbil Platalea minor EN 183 230 240 Common Shelduck Tadoma tadoma 286 192 188 20 400 400 Eurasian Wigeon Anas paenolope 3,787 4,080 400 400 Falcated Duck Anas playtrhynchos 1 1 2 5 Sopt-billed Duck Anas guegedna 28 16 7 Northern Pintal Anas acuta 2.609 4.381 1.480 Garganey Anas dypeat 103 439 519 Greater Scaup Aythya marila 103 439 519 Unide Mick ducks Anas dypeatous 1 100 180 Common Kondorhen Calimalus striatus 2 3 100 Greate						
Oriental Stork Ciconia boyciana EN 1 Eurasian Spoonbill Platale aninor EN 18 2.20 240 Common Shelduck Tadoma tadoma 268 192 188 Eurasian Wigeon Anas penelope 3.797 4.080 400 Falcated Duck Anas penelope 3.797 4.080 400 Falcated Duck Anas poeliohymcha 83 24 15 Sontheild Duck Anas poeliohymcha 83 24 15 Northern Shoveler Anas querquedula 2.60 4.381 1.440 Gragney Anas querquedula 2.80 16 7 Unidentified ducks Anatinae spp. 5.060 5.725 200 Staly-breasted Rail Galiinuia chiorogus 1 1 1 Common Moorhen Galiinuia chiorogus 12 150 1028 3.50 Staly-breasted Rail Galiinuia chiorogus 12 1 16 1208 Common Moorhen Galiinuia chiorogus <		0 0		,	,	
Eurasian Spoonbill Plataka laucorodia 4 2 2 Black-faced Spoonbill Plataka minor EN 183 230 240 Common Shelduck Tadorna tadorna 266 192 188 Eurasian Wigeon Anas panelopa 3,787 4,080 400 Falcated Duck Anas falcata NT 5 5 Common Teal Anas creaca 3,164 3,842 1,331 Mallard Anas playriynchos 1 1 1 2 Sob-billed Duck Anas cliperata 2,609 4,381 1,480 Garganey Anas cliperata 1,630 1,328 1,616 Turide Duck Aythya marile 17 150 98 Common Code Anas cliperata 3,024 10 13 439 619 Grapery Anas cliperata 2,080 9,025 220 200 13 236 16 72 150 98 6 72 13 13			EN			
Black-faced Spoonbil Platabe minor EN 183 230 240 Common Shelduck Tadoma ladoma 266 102 188 Eurasian Wigeon Anas penelope 3.787 4.080 400 Falcated Duck Anas penelope 3.787 4.080 400 Falcated Duck Anas penelope 3.164 3.842 1.311 Mallard Anas pocilor/nyncha 8.3 24 15 Sontheild Duck Anas pocilor/nyncha 8.3 24 15 Northern Shoveler Anas querquedula 2.60 4.381 1.480 Gragney Anas querquedula 2.8 16 7 Unidentified ducks Anatinae spp. 5.080 5.725 200 Stalty-breasted Waithen Amalura dupaticus 1 1 1 Common Moorhen Gallinuia chloropus 30 24 13 Common Koole Fulus situatis 12 2.965 3.50 Common Moorhen Gallinuia chloropus 30 <td></td> <td></td> <td></td> <td>4</td> <td>2</td> <td>-</td>				4	2	-
Common Shelduck Tadoma tadoma 268 192 188 Eurasian Wigeon Anas penelope 3,797 4,080 400 Falcated Duck Anas falcata NT 5 Common Teal Anas creeca 3,164 3,842 1,331 Mallard Anas platyfhynchos 1 1 2 Sopt-billed Duck Anas poecilorhyncha 83 24 15 Northem Pintal Anas eurgruedula 28 16 7 Northem Shoveler Anas elypeata 1,031 1,328 1,616 Carganey Anas elypeata 1,031 1,328 1,616 Order Scaup Aythya marila 17 17 101 Unidertified duck Anal sequeticus 1 2 3 Vihite-breasted Rail Gelfiralius striatus 2 3 2 1 Vihite-breasted Walerhen Annouronis breenicuus 30 24 13 Common Codi <i>Fulica atte</i> 54 42 260			EN			
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				1		
		·		52,068	54,447	40,116

Table 43: Waterbird species counts reported during the AWC in Hong Kong, 2002–2004

English Name	Scientific Name	GTS	2002	2003	2004
Osprey	Pandion haliaetus		11	11	18
Black Kite	Milvus migrans		85	107	141
White-bellied Fish-eagle	Haliaeetus leucogaster				4
Eastern Marsh Harrier	Circus spilinotus		1	2	1
Common Buzzard	Buteo buteo				9
Greater Spotted Eagle	Aquila clanga	VU	2	1	3
Imperial Eagle	Aquila heliaca	VU	3	2	4
Common Kestrel	Falco tinnunculus		82	84	117
Peregrine Falcon	Falco peregrinus		2	1	6
White-throated Kingfisher	Halcyon smyrnensis		18	39	22
Black-capped Kingfisher	Halcyon pileata		8	14	15
Common Kingfisher	Alcedo atthis		51	53	47
Pied Kingfisher	Ceryle rudis		5	9	8

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4.2.3 Macao

Macao began participating in the AWC in 2002 and one site, Taipa-Coloane Mudflat (Figure 26), was surveyed in all three years, with 1,948, 1,130 and 1,357 waterbirds recorded in 2002, 2003 and 2004, respectively. The site is also an IBA. The data were contributed by individual counters.

Thirty waterbird species were recorded (Table 44), including the Endangered Black-faced Spoonbill, with a highest count of 50 individuals (3% of the global population) in 2004, which qualifies the Taipa-Coloane Mudflat as an internationally important wetland. The most numerous species recorded was Little Egret, with a highest count of 1,168 individuals in 2002.

The Macao Government declared two wetland nature reserves, namely the Lotus Flower Bridge wetland (40 ha) and Taipa-Coloane wetland (15 ha), in 2001. However, there is no active management of these reserves and both are heavily disturbed by development in the adjacent areas, especially by the casino industry. The Lotus Flower Bridge wetlands are constantly disturbed by reclamation works and fishermen, whilst a highway has been proposed between the Lotus Flower Bridge wetland and Taipa-Coloane wetland. These actions are expected to have a severe cumulative negative impact on the long-term use of these sites by waterbirds.

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		2	4	6
Great Cormorant	Phalacrocorax carbo		2		2
Grey Heron	Ardea cinerea		147	133	149
Eastern White Egret	Ardea modesta		84	71	98
Intermediate Egret	Ardea intermedia		115	8	5
Cattle Egret	Ardea (Bubulcus) ibis			3	5
Green-backed Heron	Butorides striatus		2		
Chinese Pond Heron	Ardeola bacchus		27	46	48
Little Egret	Egretta garzetta		1,168	639	642
Black-crowned Night-heron	Nycticorax nycticorax		68	23	28
Yellow Bittern	Ixobrychus sinensis		3		1
Eurasian Spoonbill	Platalea leucorodia		2	2	1
Black-faced Spoonbill	Platalea minor	EN	39	46	50
Common Teal	Anas crecca		78		121
Spot-billed Duck	Anas poecilorhyncha				1
Northern Pintail	Anas acuta		2		2
Northern Shoveler	Anas clypeata		4		
White-breasted Waterhen	Amaurornis phoenicurus		3		1
Common Moorhen	Gallinula chloropus		4	4	5
Common Coot	Fulica atra			3	1
Black-winged Stilt	Himantopus himantopus		2		
Pied Avocet	Recurvirostra avosetta		2		
Little Ringed Plover	Charadrius dubius		69	4	14
Kentish Plover	Charadrius alexandrinus		26	120	115
Eurasian Curlew	Numenius arquata			4	

English Name	Scientific Name	GTS ¹	2002	2003	2004
Common Greenshank	Tringa nebularia			15	13
Wood Sandpiper	Tringa glareola			1	
Common Sandpiper	Actitis hypoleucos		18	4	6
Red-necked Stint	Calidris ruficollis		15		
unidentified Calidris sandpipers	Calidris spp.		3		
Black-tailed Gull	Larus crassirostris		63		16
unidentified gulls	Laridae spp.				27
Total Waterbirds			1,948	1,130	1,357

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4.2.4 Taiwan

Forty-two sites were surveyed, 18 of which were IBAs, during 2002–2004 (Figure 27 and Table 45). Waterbird totals recorded were 87,370 (33 sites), 58,967 (23 sites) and 81,348 (33 sites) in AWC 2002, 2003 and 2004, respectively.

There were no records of any sites holding more than 20,000 waterbirds; the only record close to this figure was at Au-ko, with 17,558 individuals recorded in 2002. A total of 27 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Totals of 112 waterbird and one albatross species were recorded (Table 46). The most numerous species recorded were Dunlin (16,788 in 2002), Common Teal (14,838 in 2004), Kentish Plover (12,526 in 2002), Common Black-headed Gull (11,156 in 2002), Great Cormorant (5,815 in 2004), Pacific Golden Plover (5,694 in 2004), Whiskered Tern (3,946 in 2004) and Eurasian Wigeon (3,107 in 2002).

Globally threatened species recorded were: Endangered: Oriental Stork (1 in 2002 and 2003), Black-faced Spoonbill (594 in 2002), Scaly-sided Merganser (1 in 2004), Red-crowned Crane (2 in 2004, one bird was recorded at different sites during the census period); Vulnerable: Dalmatian Pelican (2 in 2004), Chinese Egret (1 in 2004), Lesser White-fronted Goose (1 in 2003), Baikal Teal (3 in 2002), Saunders's Gull (746 in 2004) and Laysan Albatross (1 in 2004).

Near Threatened species recorded were Black-headed Ibis (1 in 2003 and 2004), Falcated Duck (24 in 2002), Asian Dowitcher (1 in 2002) and Black-tailed Godwit (6 in 2003 and 2004).

According to the AWC reports and Woei-horng Fang (pers. comm., Sept. 2006), the major threat to waterbirds and their habitats is reclamation of tidal flats and salt marshes, particularly on the west coast of Taiwan. In recent years, a series of windmill turbines for electricity generation have been built along the coastline. Some of the windmills have been constructed on the high-tide roost sites of shorebirds, and the impact of the birds on the suitability and safety of these sites has become a serious concern. Disease is also a threat to wetland birds: in the northern winter of 2002–2003, an outbreak of avian botulism in Tseng-wen estuary killed more than 70 Endangered Black-faced Spoonbill. Appropriate wetland management should be undertaken to minimise any recurrence of this type of crisis.

The census was coordinated by the Wild Bird Federation Taiwan.

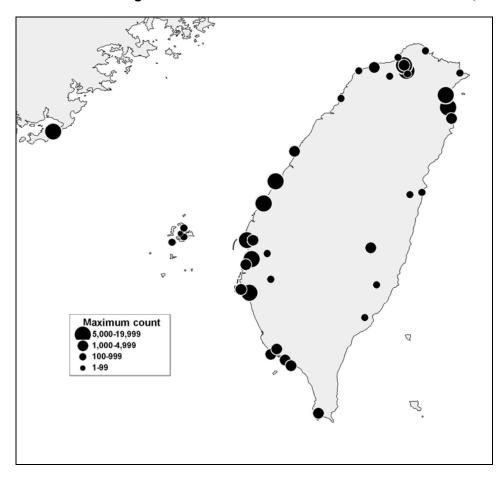


Figure 27: AWC site coverage and numerical distribution of waterbirds in Taiwan, 2002–2004

Table 45: Wetland sites surveyed during the AWC in Taiwan, 2002–2004

County	Site Name	Status ¹	Threats ²	2002	2003	2004
Changhua	Han-Pao		G	9,631	1,688	947
Changhua	Hsi-Kang (Ta Cheng)			6,526		547
Chiayi	Ao-Ku			17,558	16,485	5,502
Chiayi	Pei Kang Hsi (Yun-Chia-Chiao)		6	2,981		
Chiayi	Pu-Tai	I	G	4,290	2,558	5,694
Chinmen	Chin-Men Island	I		5,400	6,602	1,784
Hsinchu	Ku-Liao (Kang Nan)		А	890	660	911
Hwalien	Hwa-Lien-Chi	I	2K	339	8	347
Hwalien	Li-Yu-Tan				414	
llan	Chu-An		6G	3,938	4,135	10,948
llan	Lan-Yang-Hsi (River)			276	4,193	10,571
llan	Li-Tse	I		3,216	25	1,973
llan	Wu-Wei-Hsi (Kang)		1	1,373	1,736	343
Kaohsiung	Feng-Shan Reservoir	I		78		3,272
Kaohsiung	Kao-Ping-Hsi (River)	I	А			3,882
Penghu	Cheng-Kung Reservoir					137
Penghu	Chi-Tou					121
Penghu	Chung-Kuang				35	
Penghu	Sin-Jen Reservoir			286	365	279
Pingtung	Lin-Pien-Chi (Hsi)			1,271		2,472
Pingtung	Lung-Luan-Tan		1	1,943	329	
Pingtung	Tung Kung					1,944
Taichung	Ta-Chia River (Kao Mei)	I	G	2,018		
Tainan	Hu-Lu-Pei	I				446
Tainan	Pei-Men	I	G	2,904		
Tainan	Szu-Tsao	I	1	3,262	5,397	6,636
Tainan	Tseng-Wen Hsi (River) / Chi Ku	I	GL	557	641	4,612
Taipei	Chin-Shan		1	154		31
Taipei	Chun-Cheng-Chiao		L			626
Taipei	Chung-Kuo-Hai-Chuan (She-Tzu)			1,808	131	2,572

Results: East Asia

County	Site Name	Status ¹	Threats ²	2002	2003	2004
Taipei	Err Chung		L	1,988	5,061	6,531
Taipei	Guandu Marsh		L	1,894	1,471	2,271
Taipei	Hua-Chiang-Chiao (Bridge)		2L	5,850	6,450	3,306
Taipei	Hua-Chun-Chiao		L	670		
Taipei	Kung-Liao		6	158		158
Taipei	Wa-Tsu-Wei	1	LG	386	388	791
Taitung	Chih-Shang (Ta Po Chi)			295	15	95
Taitung	Pei-Nan-Hsi (River)					105
Taoyuan	Kuan Ing			893		
Taoyuan	Ta-Yuan		68	1,361	180	479
Yunlin	Pao-Chung			930		
Yunlin	Shui-Lin		6	2,246		1,016

Notes:

Notes: Status¹: I – IBA identified by BirdLife International (2005). Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Touring/recording Tourism/recreation.

Table 46: Waterbird species counts reported during the AWC in Taiwan, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Little Grebe	Tachybaptus ruficollis		372	174	450
Great Crested Grebe	Podiceps cristatus		11	72	
Black-necked Grebe	Podiceps nigricollis		1		2
unidentified grebes	Podicipedidae spp.		1		
Dalmatian Pelican	Pelecanus crispus	VU			2
Great Cormorant	Phalacrocorax carbo	-	2.224	4.015	5,815
Grey Heron	Ardea cinerea		1,783	2.002	2,610
Eastern White Egret	Ardea modesta		1,255	495	1,865
Intermediate Egret	Ardea intermedia		188	67	487
Purple Heron	Ardea purpurea		4	8	6
Cattle Egret	Ardea (Bubulcus) ibis		528	118	870
Green-backed Heron	Butorides striatus		020	3	2
Chinese Pond Heron	Ardeola bacchus		4	1	15
Pied Heron	Egretta picata		•	•	1
Little Egret	Egretta garzetta		2.800	1,052	2,548
Chinese Earet	Egretta eulophotes	VU	2,000	1,002	1
Eastern Reef Heron	Egretta sacra	v0	2	2	6
Black-crowned Night-heron	Nycticorax nycticorax		1,447	1,151	1,955
Malayan Night-heron	Gorsachius melanolophus		1,447	1,151	1,355
Eurasian Bittern	Botaurus stellaris		1	1	1
Yellow Bittern	Ixobrychus sinensis		13	5	30
Cinnamon Bittern	Ixobrychus cinnamomeus		5	4	8
Black Stork	Ciconia nigra		<u> </u>	2	3
Oriental Stork	Ciconia hoyciana	EN	1	<u> </u>	5
Black-headed Ibis	Threskiornis melanocephalus	NT	I	1	1
Eurasian Spoonbill	Platalea leucorodia	INI	3	1	1
Black-faced Spoonbill	Platalea neucorodia Platalea minor	EN	594	379	505
Bean Goose		LIN	594	519	2
Greater White-fronted Goose	Anser fabalis Anser albifrons				<u> </u>
Lesser White-fronted Goose		VU			1
	Anser erythropus	VU		4	1
Ruddy Shelduck	Tadorna ferruginea			<u>1</u> 2	3
Common Shelduck	Tadorna tadorna		5	_	
Eurasian Wigeon	Anas penelope	NIT	<u>3,107</u> 24	838	1,089
Falcated Duck	Anas falcata	NT			14
Gadwall	Anas strepera	<u> </u>	48	35	53
Baikal Teal	Anas formosa	VU	3	44.004	2
Common Teal	Anas crecca		12,261	14,691	14,838
Mallard	Anas platyrhynchos		115	11	74
Spot-billed Duck	Anas poecilorhyncha		1,575	552	1,212
Northern Pintail	Anas acuta		1,018	716	810
Garganey	Anas querquedula		42	3	41
Northern Shoveler	Anas clypeata		1,182	1,274	1,555
Common Pochard	Aythya ferina		1	20	11
Tufted Duck	Aythya fuligula		2,288	1,048	620
Greater Scaup	Aythya marila		12	1	20
Common Goldeneye	Bucephala clangula		1		
Red-breasted Merganser	Mergus serrator		3	1	2

Scal-sided Merganser Mergus squamatus EN 1 Red-crowned Crane Grus japonnais EN 2 Staty-breasted Rail Gallientus striatus 8 4 5 Staty-breasted Rail Gallientus striatus 8 4 5 White Freated Waterhen Annurcrins phoenicuus 56 56 83 Mudry breasted Croke Prozen issupus 52 94 116 5 Probasin-tailed Jacana Pyerconbianus chirurgus 24 15 5 Curnsion Ocot Files atra 3 4 1 Black-wingod Still Himantipus intrantopus 250 534 2,044 Version Discontext Reservices and intervices 1 2 1 2 Pacitic Codent Rescurvices anosetta 3 100 107 Northen 2 1 2 Pacitic Codent Nover Philophilis Linar 2 1 2 2 2 1 2 1 2 1 2 1 1	English Name	Scientific Name	GTS	2002	2003	2004
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White-breasted Waterhen Ansuroring phoencurus 58 56 85 Mudty-breasted Crake Porzan Ausoa 16 5 33 Common Moorhen Galinula chloropus 643 505 317 Common Coot Fulica atra 152 84 150 Phesant-tailed Jacana Hydrophasianus chirurgus 7 7 Creater Paintel Snipe Restrouble benghalensis 24 15 5 Eurssian Oxsteracther Heennicopus ostrafegus 3 4 1 100 110 100 100 100 100 100 100 100 100 100 100 100 100 100					4	
Budty-breasted Crake Porzana Lusca 16 5 33 Common Coot Fulles atra 152 84 150 Cammon Coot Fulles atra 152 84 150 Camanon Moorhen Galinale choropus 24 15 5 Creater Painted Singe Rostratule benghalensis 24 15 5 Eurasian Oysterachter 3 14 1 5 Black-winged Still Hemantopus Inimatopus 260 554 2.064 Northern Lapwing Varellus chereus 1 101 106 245 Grey Headed Lapwing Varellus chereus 1.81 173 256 Grey Headed Plover Charadrins Instacha 1.81 173 252 Long-billed Plover Charadrins Instacha 1.81 173 252 Long-billed Plover Charadrins Instacha 1 16 2 Long-billed Plover Charadrins Instacha 1 16 2 Long-billed Plover Charadrins Insechanalti					56	
Common Moorhen Galinula chiorgus 643 595 1.075 Common Coot Fulca atra 152 84 150 Phessant-tailed Jacana Hydrophasianus chiurgus 7 7 Creater Pairtel Snipe Rostraulo benghalensis 24 15 5 Eurasian Oystercatcher Hearnatopus immaniques 260 534 2.064 Pied Avocet Recurviostra avosata 3 100 107 State State 1 2 2 266 534 2.064 Grey Theaded Lapwing Vanelius cinercus 1 2						
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Whiskered Tern Chlidonias hybridus 1,486 39 3,946 Total Waterbirds 87,370 58,967 81,348				50		
	Whiskered Tern	Chlidonias hybridus				
Laysan Albatross Phoebastria immutabilis VU 1				87,370	58,967	4
	Laysan Albatross	Phoebastria immutabilis	VU			1

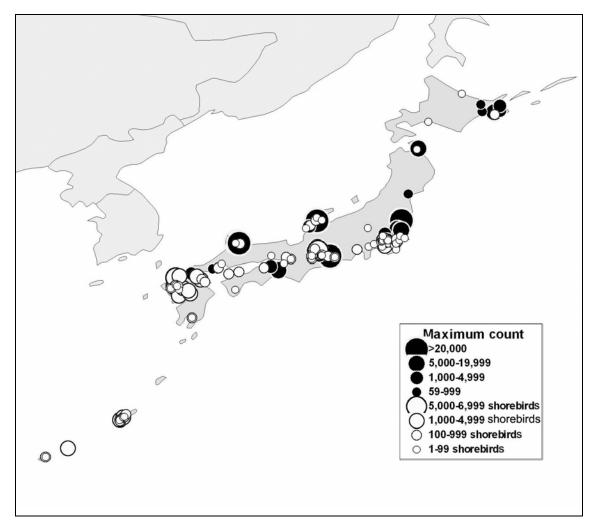
Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4.3 Japan

Data from 28 sites in Japan (26, 21 and 20 in 2002, 2003 and 2004 respectively) were contributed by individual observers during 2002–2004 (see Figure 28 and Table 47a).

The Japanese Government has conducted an annual Anatidae count since 1970; the census is carried out 10 days before and after January 15. Later, annual crane and shorebird counts were also carried out as part of a research programme of the Ministry of the Environment Japan. With the agreement of the Ministry, a summary of the data from the annual Anatidae, crane and shorebird counts made during 2002–2004 (Nature Conservation Bureau of Ministry of the Environment Japan 2002, 2003, 2004; Wildlife Division of Ministry of the Environment Japan 2002, 2003, 2004; Wildlife Division of Ministry of the Environment Japan and WWF – Japan 2002, 2003, 2004) was received from the Wild Bird Society of Japan and WWF–Japan, and these data are also presented in this section.

Figure 28: AWC site coverage and numerical distribution of waterbirds in Japan, 2002–2004



The Anatidae count was carried out at 9,005 sites in 2002, 8,975 sites in 2003 and 9,482 sites in 2004. The crane count was conducted in three main areas, Izumi (highest count of 9,432 Hooded Cranes in 2004 and 3,069 White-naped Cranes in 2003), Yashiro (16 Hooded Cranes in 2002) and Eastern Hokkaido (908 Redcrowned Cranes in 2003). The shorebird count (see Tables 47a and 47b) was conducted at 70, 76 and 76 sites in 2002, 2003 and 2004 respectively. Totals for the annual counts of Anatidae, cranes and shorebirds are given in Table 48a.

Data for waterbird species other than Anatidae, crane and shorebirds at the 28 sites counted by individual observers are given in Table 48b. Waterbird totals recorded (annual Anatidae, crane and shorebird counts in addition to other waterbird species recorded at 28 AWC sites) were 2,037,095, 2,063,511 and 2,118,657 individuals in 2002, 2003 and 2004 respectively.

Of the 28 AWC sites, 10 are Ramsar sites, 16 are IBAs and seven are EAAF Migratory Waterbird Network sites. Sites that recorded more than 20,000 waterbirds were Toyokawa River Mouth (74,377 in 2002), Kasumigaura (64,741 in 2002), Kahokugata Lake (39,207 in 2003), Shinji Lake (48,107 in 2002) and Nakaumi (79,982 in 2004). A total of 18 sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Of the 94 additional shorebird count sites, two were Ramsar sites, 21 were IBAs and five were EAAF Migratory Waterbird Network sites. Nine of the additional sites recorded more than 1% of the biogeographic population of at least one species of waterbird.

Totals of 123 waterbird and two raptor species were recorded. The most numerous species (>50,000 individuals) recorded were Mallard (highest count of 452,785 in 2003), Greater Scaup (267,590 in 2004), Spot-billed Duck (204,004 in 2002), Common Teal (195,125 in 2004), Eurasian Wigeon (188,048 in 2002), Northern Pintail (187,986 in 2002), Common Pochard (179,633 in 2002), Tufted Duck (121,288 in 2004) and Greater White-fronted Goose (96,426 in 2003).

The highest count totals of 13 globally threatened species were as follows: Endangered: Japanese Nightheron (7 in 2002), Black-faced Spoonbill (38 in 2002), Swan Goose (1 in 2002), Scaly-sided Merganser (1 in 2004), Red-crowned Crane (908 in 2003), Spoon-billed Sandpiper (1 in 2002); Vulnerable Lesser Whitefronted Goose (6 in 2004), Baikal Teal (3.273 in 2002), Baer's Pochard (12 in 2003), Hooded Crane (9.443 in 2004), White-naped Crane (3,069 in 2003), Saunders's Gull (49 in 2002) and Steller's Sea-eagle (27 in 2002). Highest count totals of three Near Threatened species were: Falcated Duck (9,809 in 2004), Black-tailed Godwit (3 in 2004) and White-tailed Eagle (3 in 2002).

Information provided for 28 wetland sites revealed that human disturbance from fishing and tourism resulted in the most significant threats to the waterbirds and wetlands. In a few wetlands, reclamation has also been reported.

Prefecture	Site Name	Status ¹	Threats ²	2002	2003	2004
Aichi	Fujimae Tidal Flat	R, I, S	1	6,112	2,244*	4,466
Aichi	Kiso River Mouth		FGIKL	8,456	5,873	10,965
Aichi	Shio-Kawa Higata		25DG	8,892	3534*	
Aichi	Toyokawa River Mouth		28CD	74,377		
Aichi	Uno Pond		1	1,423	1,201	1,006
Aomori	Ogawara Lake	pl	8CD	8,017	7,150	9,735
Fukuoka	East Region of Ariake Sea		1	7,781		
Fukuoka	East Region of Hakata Bay		J	15,349	11,621	15,171
Fukuoka	Imazu		1	2,967	3,659	6,999
Gifu	Nagara River	R	2KL	7,352	4,350	13,212
Hokkaido	Akkeshi Lake	R, I, A, C	G	5,171	3,871	
Hokkaido	Furen Lake	R, I	267DHL	358	334	1,497
Hokkaido	Kiritappu Marsh	R, I, C	9GIL	107	326	134
Hokkaido	Kushiro Marsh and Surrounding Rivers	R, I, A, C	26GL	360		
Hokkaido	Kussharo Lake		8GL	762		
Hokkaido	Notsuke Bay	R, I	HL		2,187	1,030
Ibaragi	Kitaura		GHL	7,669	7,628	7,155
Ibaraki	Hinuma		89GL	2,691	7,103	5,881
Ibaraki	Kasumigaura		89DFGL	64,741	54,869	39,000
Ibaraki	Sugao Marshes		28GL	2,090	2,111	1,590
Ishikawa	Kahokugata Lake	l	568G	32,309	39,207	442*
Ishikawa	Katano Kamoike	R, I, A	2L	2,981	1,856	1,210
Miyagi	Gamou Lagoon		GIL	664		
Osaka	Nanko Yacho-En (Bird Sanctuary)	I, S	1	100*	974	298
Osaka	Yodogawa River		89CGIL	11,871	8,802	8,627
Shimane	Shinji Lake	R, I	GHL	48,107	39,444	41,867
Shimane and		R, I	GH			
Tottori	Nakaumi			54,583	10,360	79,982
Yamaguchi	Yashiro	С	IL	18	13	59

Table 47a: Wetland sites surveyed during the AWC in Japan, 2002–2004

Notes

Status¹: R – Ramsar site, I – IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), A – Anatidae site of the Migratory Waterbird Network in the East Asian Flyway, C - Crane site of the Migratory Waterbird Network in the East Asian Flyway, S - Shorebird site of the Migratory Waterbird Network in the East Asian - Australasian Flyway.

- Count includes only shorebird numbers.

Threats²: 1 – None identified, 2 – Sedimentation, 3 – Excessive overgrowth of vegetation, 4 – Cutting/clearance of vegetation, 5 – Eutrophication, 6 – Agriculture along drying margins, 7 – Excessive cattle grazing, 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste, B – Oil pollution, C – Pesticides, D – Fertilisers, E – Mining, F – Hunting/trapping/poaching of birds, G – Small-scale fishing, H – Large-scale fishing, I – Partial reclamation, J – Complete reclamation, K – Dam/barrage construction, L – Tourism/ recreation.

Prefecture	Site Name	Status ¹	2002	2003	2004
Aichi	Ikawazu		740	574	812
Aichi	Jinno Shinden Shio Kawa Tideland		125 8892	26	
Aichi Aichi	Tatsuta-Mura	I	366	104	96
Aichi	Yahaqi-Gawa Kakou		181	183	157
Aichi	Yahagihuru-Kawa Kakou	•	101	747	107
Aomori	Takase-Gawa Kakou		5		
Chiba	Banzu	pl	1516	3059	1245
Chiba	Hori-Kawa, Magame-Gawa	•	1	43	88
Chiba	Ichinomiya-Gawa Kakou		174	216	249
Chiba	lioka Kaigan		163	236	23
Chiba	Kido-Gawa, Kuriyama-Gawa		205	190	156
Chiba	Kuriyama-Gawa, Shin-Kawa			48	40
Chiba	Magame-Gawa, Sakuda-Gawa		497	160	
Chiba	Makuhari C-Hama		177	37	10
Chiba Chiba	Messe Chuushajou		2	<u>44</u> 15	48 27
Chiba	Nabaki-Gawa, Hori-Kawa Sakuda-Gawa, Kido-Gawa		392	369	75
Chiba	Sanbanse		2009	1990	2985
Chiba	Yatsu Tidal Mudflat	R, I, S	1439	1885	1280
Chiba	Yourou-Gawa Kakou	Ν, Ι, Ο	1433	350	1200
Ehime	Daimyoujin-Gawa, Takasu Kaigan, Shin-Kawa		113	113	67
Ehime	Kamo-Gawa Kakou		272	292	362
Ehime	Shigenobu-Gawa Kakou		507	303	393
Fukuoka	Sone-Tideland	l	796	1539	761
Fukuoka	Wajiro Higata		2955	2997	2123
Gunma	Nisikaminomiya-Machi				2
Hirosima	Yahata-Gawa Kakou		3	58	76
Hokkaido	Komuke Lake	pl		5	
Hokkaido	Mukawa Kakou				2
Hyogo	Hamakoushien		70	235	79
Hyogo	Nakajima Futou		70	24	2
Ibaraki Ibaraki	Hasaki Shinkou Hazaki-Chou Yatabe		79 19	<u>31</u> 21	24 1
Ibaraki	Kamisu-Chou Takahama		46	17	26
Ishikawa	Daishouji-Gawa Karyuu Suiden		40	17	20
Ishikawa	Komaiko Kaigan	1	253	10	127
Ishikawa	Ouchi-Gata	•	79		18
Ishikawa	Takamatsu, Kahoku Kaigan			479	469
Kagoshima	Fukiagehama Kaigan		589	331	195
Kanagawa	Ebina-Shi Katsuse		14	17	15
Kanagawa	Sakawa-Gawa Chuuryuuiki		24	10	
Kouchi	Oogata-Machi				1
Kumamoto	Arao Kaigan		1313	720	1658
Kumamoto	Kuma-Gawa Kakou	I, S	1008	1443	1961
Kumamoto	Oono-Gawa, Suna-Gawa Kakou		2640	2795	2395
Kumamoto	Shira-Kawa Kakou		<u>1397</u> 39	2611	311
Kyoto Mie	Oguraike Kantakuden Anou-Gawa Kakou, Shitomo-Gawa Kakou		365	<u>30</u> 217	<u>29</u> 63
Mie	Atago-Gawa, Kushida-Gawa	I	633	487	305
Mie	Kumozu-Gawa Kakou, Gonushi Kaigan	pl	313	498	373
Mie	Suzuka-Gawa Kakou, Suzuka-Hasen Kakou	P1	81	12	148
Mie	Toyotsuura, Machiyaura		429	548	445
Nagasaki	Isahaya Bay		8	15	
Okinawa	Awase Higata		1265	1542	1995
Okinawa	Gushi Higata		109	236	97
Okinawa	Hiyagon Shicchi		297	976	644
Okinawa	Komesu Kaigan		290	62	108
Okinawa	Manko	R, I, S	1266	655	920
Okinawa	Mukue-Gawa		224	90	24
Okinawa	Okukubi-Gawa Kakou		307	293	386
Okinawa	Onaga		344	378	
Okinawa	Shioya Higata		78	30	0.4-
Okinawa	Shiraho, Miyara-Wan		895	934	647
Okinawa Okinawa	Teruma Higata		402	110	1440
	Yonaha-Wan		00	<u>594</u> 41	<u>1410</u> 2
	Vana Sankaku Ika				
Okinawa	Yone Sankaku-Ike	pl	99		
	Yone Sankaku-Ike Morie-Wan Nakatsu Kaigan	pi	<u>99</u> 67 1966	469 2275	24 24 1301

Table 47b: Additional wetland sites surveyed for shorebirds during the AWC in Japan, 2002–2004

Prefecture	Site Name	Status ¹	2002	2003	2004
Ooita	Takada, Matama Kaigan		285	189	128
Osaka	Osato-Gawa Kakou		88	53	25
Saga	Daijugarami		5592	6916	5287
Saga	Heiwagarami			52	
Saga	Kase-Gawa Kakou			849	
Saga	Kashima Shingomori	S	658	535	892
Saga	Oonoshima			187	8
Saga	Rokkaku-Gawa Kakou		60	117	57
Saitama	Azuma-Chou, Taisei-Chou		21	5	24
Saitama	Ookubo Noukouchi		12	2	
Shimane	linashi-Gawa Kakou		255	302	344
Shimane	Sada-Gawa			41	
Shizuoka	Fuji-Gawa Kakou		221	191	237
Tochigi	Inba-Numa		56		
Tochigi	Tochigi-Ken Nanbu Suiden-Chitai		41	32	45
Tokushima	Yoshino River Estuary	I, S	1046	1192	987
Tokyo	Kasai Kaihinkouen		600	1341	1039
Tokyo	Tama-Gawa Kakou	pl	163	118	140
Tokyo	Tama-Gawa Karyuuiki		52	36	77
Tokyo	Toukyou-Kou Chobokujou			53	
Tokyo	Toukyou-Kou Yatyouen Shuuhen			12	9
Tokyo	Tyuuou-Bouhatei Uchi-Sotogawa Umetatechi		1	28	4
Toyama	Toyama Shinkou				37
Yamaguchi	Iwaguni-Shi Ozu Hasuta		101	254	197

Note:

Status¹: R – Ramsar site, I – IBA identified by BirdLife International (2005), pl – part of an IBA identified by BirdLife International (2005), A – Anatidae site of the Migratory Waterbird Network in the East Asian Flyway.

Table 48a: Anatidae, crane and shorebird species recorded during the AWC period in Japan, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Anatidae count					
Lesser Whistling Duck	Dendrocygna javanica				5
Mute Swan	Cygnus olor		226	160	138
Whooper Swan	Cygnus Cygnus		32,017	32,303	32,820
Tundra (Whistling) Swan	Cygnus columbianus		34,506	39,143	45,311
unidentified swans	Cygnus spp.		323	158	27
Swan Goose	Anser cygnoides	EN	1		
Bean Goose	Anser fabalis		11,454	13,649	11,519
Greater White-fronted Goose	Anser albifrons		56,740	96,426	68,363
Lesser White-fronted Goose	Anser erythropus	VU	5	4	6
Greylag Goose	Anser anser		1		3
Lesser Snow Goose	Anser caerulescens		16	7	11
Canada Goose	Branta Canadensis		31	28	10
Brent Goose	Branta bernicla		715	667	753
unidentified geese	Anser spp.		738	74	244
Ruddy Shelduck	Tadorna ferruginea		1	4	1
Common Shelduck	Tadorna tadorna		718	791	621
Mandarin Duck	Aix galericulata		25,926	28,210	23,913
Eurasian Wigeon	Anas Penelope		188,048	177,626	168,964
American Wigeon	Anas Americana		63	92	52
Falcated Duck	Anas falcate	NT	8,166	9,165	9,809
Gadwall	Anas strepera		17,448	18,029	17,719
Baikal Teal	Anas formosa	VU	3,273	2,968	2,841
Common Teal	Anas crecca		175,765	183,900	195,125
Mallard	Anas platyrhynchos		438,707	452,785	433,777
Spot-billed Duck	Anas poecilorhyncha		204,004	202,375	202,055
Northern Pintail	Anas acuta		187,986	182,385	178,599
Garganey	Anas querquedula		1	6	6
Northern Shoveler	Anas clypeata		16,470	15,007	16,627
Red-crested Pochard	Netta rufina		2		1
Canvasback	Aythya valisineria		10	16	2
Common Pochard	Aythya ferina		179,633	164,826	168,507
Baer's Pochard	Aythya baeri	VU	4	12	6
Tufted Duck	Aythya fuligula		92,698	78,398	121,288
Greater Scaup	Aythya marila		184,949	204,194	267,590
Harlequin Duck	Histrionicus histrionicus		2,413	2,329	1,635
Common Scoter	Melanitta nigra		16,028	8,706	8,705

English Name	Scientific Name	GTS ¹	2002	2003	2004
Velvet Scoter	Melanitta fusca		725	304	90
Long-tailed Duck	Clangula hyemalis		1,302	927	378
Common Goldeneye	Bucephala clangula		3,904	3,563	2,616
Smew	Mergellus albellus		2,378	2,235	1,834
Red-breasted Merganser	Mergus serrator		4,523	3,382	2,927
Scaly-sided Merganser	Mergus squamatus	EN			1
Goosander	Mergus merganser		5,626	4,539	4,198
unidentified ducks	Anatinae spp.		60,517	49,265	58,606
Crane count					
White-naped Crane	Grus vipio	VU	2,737	3,069	2,397
Hooded Crane	Grus monacha	VU	8,506	8,950	9,443
Red-crowned Crane	Grus japonensis	EN	808	908	822
Shorebird count					
Greater Painted Snipe	Rostratula benghalensis		2	2	4
Eurasian Oystercatcher	Haematopus ostralegus		153	163	106
Black-winged Stilt	Himantopus himantopus		174	80	124
Pied Avocet	Recurvirostra avosetta		1	6	2
Northern Lapwing	Vanellus vanellus		1,035	985	663
Grey-headed Lapwing	Vanellus cinereus		306	302	202
Pacific Golden Plover	Pluvialis fulva		1,761	2,530	2,121
Grey Plover	Pluvialis squatarola		2,790	3,504	2,691
Great Ringed Plover	Charadrius hiaticula		16	12	13
Long-billed Plover	Charadrius placidus		111	84	103
Little Ringed Plover	Charadrius dubius		382	152	291
Kentish Plover	Charadrius alexandrinus		5,594	6,376	5,659
Lesser Sandplover	Charadrius mongolus		602	664	1,078
Greater Sandplover	Charadrius leschenaultii		24	203	610
Eurasian Woodcock	Scolopax rusticola		1	3	
Latham's Snipe	Gallinago hardwickii			1	
Pintail Snipe	Gallinago stenura			1	
Swinhoe's Snipe	Gallinago megala			1	
Common Snipe	Gallinago gallinago		499	511	364
Long-billed Dowitcher	Limnodromus scolopaceus		17	16	26
Black-tailed Godwit	Limosa limosa	NT	2	1	3
Bar-tailed Godwit	Limosa lapponica		7	7	12
Whimbrel	Numenius phaeopus		64	42	28
Eurasian Curlew	Numenius arguata		548	651	483
Far Eastern Curlew	Numenius madagascariensis		6	8	5
Spotted Redshank	Tringa erythropus		3	3	7
Common Redshank	Tringa totanus		104	67	59
Marsh Sandpiper	Tringa stagnatilis		39	26	9
Common Greenshank	Tringa nebularia		286	322	233
Green Sandpiper	Tringa ochropus		64	48	36
Wood Sandpiper	Tringa glareola		91	33	30
Terek Sandpiper	Xenus cinereus		16	00	70
Common Sandpiper	Actitis hypoleucos		284	269	207
Grey-tailed Tattler	Heteroscelus brevipes		158	148	116
Ruddy Turnstone	Arenaria interpres		264	380	297
Red Knot	Calidris canutus		4	500	237
Great Knot	Calidris tenuirostris		4		7
Sanderling	Calidris alba		1,927	2,041	1,686
Red-necked Stint	Calidris alba		248	172	287
Little Stint	Calidris runcollis Calidris minuta		240	8	3
Temminck's Stint	Calidris terminckii		28	28	24
			173	28 58	
Long-toed Stint	Calidris subminuta		1/3	58	193
Pectoral Sandpiper	Calidris melanotos			4	1
Sharp-tailed Sandpiper	Calidris acuminata		00.055	1	2
Dunlin	Calidris alpina		28,955	37,922	26,254
Spoon-billed Sandpiper	Eurynorhynchus pygmaeus	EN	1	4.4	-
Ruff	Philomachus pugnax		10	11	8
unidentified shorebirds	Charadrii spp.		358		1

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

English Name	Scientific Name	GTS ¹	2002	2003	2004
Black-throated Diver	Gavia arctica			1	
Little Grebe	Tachybaptus ruficollis		744	395	467
Red-necked Grebe	Podiceps grisegena		1		
Great Crested Grebe	Podiceps cristatus		486	712	384
Horned Grebe	Podiceps auritus		28	31	4
Black-necked Grebe	Podiceps nigricollis		604	214	200
unidentified grebes	Podicipedidae spp.		1		
Great Cormorant	Phalacrocorax carbo		5,590	2,694	3,158
Japanese Cormorant	Phalacrocorax capillatus		21	19	21
Pelagic Cormorant	Phalacrocorax pelagicus			2	2
unidentified cormorants	Phalacrocoracidae spp.		3	8	6
Grey Heron	Ardea cinerea		623	225	143
Eastern White Egret	Ardea modesta		178	85	135
Intermediate Egret	Ardea intermedia		3	1	2
Little Egret	Egretta garzetta		207	128	199
Eastern Reef Heron	Egretta sacra		1		2
unidentified egrets	Egretta/Bubulcus spp.		1		
Black-crowned Night-heron	Nycticorax nycticorax		18	9	72
Japanese Night-heron	Gorsachius goisagi	EN	7		
Eurasian Bittern	Botaurus stellaris			1	
Eurasian Spoonbill	Platalea leucorodia		12		1
Black-faced Spoonbill	Platalea minor	EN	38	26	25
Common Crane	Grus grus			1	
Water Rail	Rallus aguaticus		1	2	4
Common Moorhen	Gallinula chloropus		69	44	72
Common Coot	Fulica atra		3,249	2,748	2,646
Black-tailed Gull	Larus crassirostris		106	255	134
Common (Mew) Gull	Larus canus		497	213	91
Glaucous-winged Gull	Larus glaucescens		2	17	1
Glaucous Gull	Larus hyperboreus		30	358	14
Herring Gull	Larus argentatus		831	493	348
Slaty-backed Gull	Larus schistisagus		49	499	46
Common Black-headed Gull	Larus ridibundus		4,406	2,514	3,961
Saunders's Gull	Larus saundersi	VU	49	39	29
unidentified gulls	Laridae spp.		9	342	
Whiskered Tern	Chlidonias hybridus		7	5	1
Total Waterbirds	•		2,037,095	2,063,511	2,118,657
White-tailed Eagle	Haliaeetus albicilla	NT	3		
Steller's Sea-eagle	Haliaeetus pelagicus	VU	27		

Note:

GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4.4 Republic of Korea

A total of 121 sites were surveyed in the 3-year period (Figure 29 and Table 49). Waterbird totals recorded were 893,933 (118 sites), 954,860 (113 sites) and 1,086,270 (115 sites) in 2002, 2003 and 2004, respectively. The survey results have been published by the Ministry of Environment (Ministry of Environment of the Republic of Korea 2002, 2003, 2004).

The site coverage included two Ramsar sites, one MAB Biosphere Reserve, 28 IBAs and four EAAF Migratory Waterbird Network sites.

The internationally important sites that recorded more than 20,000 waterbirds were the Geum River Reservoir (340,839 in 2003), Dongrim Reservoir (250,386 in 2004), Gocheonam Reservoir (87,357 in 2004), Siwha Reservoir (67,115 in 2004), Youngsan Reservoir Estuary (50,134 in 2004), Mangyung River Estuary (42,468 in 2004), Ganwol Reservoir (36,289 in 2004), Dongjin River Estuary (34,118 in 2002), Sapkyo Lake (25,678 in 2002), Geum River Estuary (25,094 in 2002), Hyungyungmyun, Muangun (20,965 in 2004) and Han River Estuary (20,395). In 2003, Nakdong Estuary and Lower Nakdong River recorded close to 20,000 waterbirds, with 19,165 and 18,036 waterbirds recorded respectively. A total of 54 sites recorded more than 1% of the biogeographic population of at least one waterbird species.

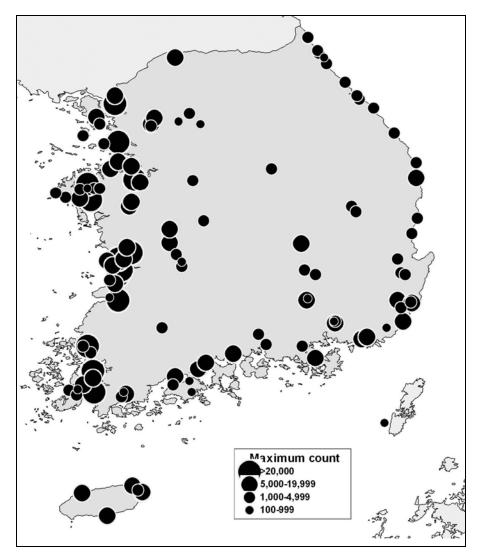
Totals of 94 waterbird, two seabird, 18 raptor and one kingfisher species were recorded (Table 50). The most numerous species were Baikal Teal (455,168 in 2004), Mallard (255,421 in 2002), Spot-billed Duck (67,806 in 2004), Greater White-fronted Goose (54,481 in 2004), Bean Goose (34,856 in 2004), Common Shelduck (30,986 in 2004), Herring Gull (29,863 in 2003), Common Pochard (26,000 in 2003), Black-tailed Gull (25,814 in 2002), Northern Pintail (22,814 in 2002), Common Black-headed Gull (22,267 in 2003) and Dunlin (15,613 in 2003).

The highest count totals of 14 globally threatened species were as follows: Endangered: Oriental Stork (10 in 2002), Black-faced Spoonbill (25 in 2002 and 2003), Swan Goose (36 in 2004), Scaly-sided Merganser (2 in 2002) and Red-crowned Crane (582 in 2004); Vulnerable: Chinese Egret (4 in 2002), Lesser White-fronted Goose (2 in 2004), Baikal Teal (455,168 in 2004), White-naped Crane (626 in 2004), Hooded Crane (216 in 2004), Saunders's Gull (1,853 in 2004), Relict Gull (2 in 2003), Steller's Sea-eagle (3 in 2002 and 2003) and Imperial Eagle (1 in 2002). Near Threatened species recorded were Falcated Duck (2,254 in 2003), Cinereus Vulture (475 in 2003) and White-tailed Eagle (30 in 2004).

While information on the conservation status of wetlands covered by the AWC were not received, several recent papers and publications have outlined a number of threats to wetlands supporting internationally important concentrations of waterbirds in the Republic of Korea, especially large-scale reclamation of intertidal wetlands and a lack of management (for biodiversity) of freshwater wetland areas. For a summary of threats and waterbird species of most concern see Moores (2002).

The census was coordinated by the National Institute for Environmental Research.

Figure 29: AWC site coverage and numerical distribution of waterbirds in the Republic of Korea, 2002– 2004



Province	Site Name	Status ¹	2002	2003	2004
Busan	Hoidong (Hwedong) Reservoir		761		
Busan	Nakdong Estuary		11,357	19,165	14,924
Busan	Lower Nakdong River		13,422	18,036	17,217
Chungbuk	Baekgok Reservoir		38	1,122	58
Chungbuk	Chopyung Reservoir		1,646	69	1
Chungbuk	Chungju Reservoir		1,246	2,780	2,678
Chungnam	Bongseon Reservoir		3,960	5,389	3,531
Chungnam	Bunam Reservoir		14,225	13,248	17,910
Chungnam	Daea Reservoir		153	653	633
Chungnam	Daechung Reservoir		3,661	3,295	2,265
Chungnam	Daeho Lake		13,707	20,975	9,611
Chungnam	Dongsang Reservoir		1,093	68	49
Chungnam	Gangsu (Kangsu) Reservoir		1,482	751	1,081
Chungnam	Ganwol (Kanwol) Reservoir		32,595	23,924	36,289
Chungnam	Geum (Kum) River Estuary	<u> </u>	25,094	22,544	14,061
Chungnam	Geum (Kum) River Reservoir		159,895	340,839	108,371
Chungnam	Geunheungmyun Coast, Taeangun		2,836	1,915	4,983
Chungnam	Gyungcheon Reservoir		741	1,149	1,382
Chungnam	Jamhong Reservoir		1,862	3,595	2,194
Chungnam	Janghang Coast		4,067	7,748	6,183
Chungnam	Nammyun Coast, Taeangun		1,295	1,910	4,344
Chungnam	Nonsan Reservoir		5,611		
Chungnam	Pungjeon Reservoir		758	235	648
Chungnam	Sekmun (Seokmun) Reclaimed Area		5,971	3,276	11,132
Chungnam	Seongam Reservoir		1,805	141	2,411
Chungnam	Tapjeong Reservoir			5,774	5,265
Chungnam	Yedang Reservoir		12,375	4,393	4,363
Chungnam	Yubu Island		18,676	11,971	8,373
Gangwon	Bukhan River		2,313	2,022	2,843
Gangwon	Cheolwon Basin	I, C	2,482	2,137	11,615
Gangwon	Cheongcho Lake		1,500	1,058	2,007
Gangwon	Gangneung – Jumunjin Coast		234	4,301	3,677
Gangwon	Gangseong – Daejin (Taejin) Coast		672	535	2,282
Gangwon	Gyungpo (Kyongpo) Lagoon	I	2,580	4,141	2,022
Gangwon	Hwajinpo Lake	I	1,205	-	868
Gangwon	Jumunjin – Yangyang Coast		1,567	549	1,032
Gangwon	Samcheok – Gangneung Coast		1,810	1,332	989
Gangwon	Sokcho – Gangseong Coast		1,211	2,029	1,756
Gangwon	Songji Lake		485		1,063
Gangwon	Yangyang – Sokcho Coast		219	540	1,140
Gangwon	Youngrang Lake		263	1	131
Gyeongbuk	Andong Reservoir		2,554	735	871
Gyeongbuk	Bomun Reservoir		2,539	493	1,257
Gyeongbuk	Deokdong Reservoir		2,351	433	610
Gyeongbuk	Geumho (Taegu) River		1,214	2,248	3,870
Gyeongbuk	Haepyong, Gumi City	I	6,538	6,372	6,905
Gyeongbuk	Hwawon Flood Plain		1,058	3,380	1,881
Gyeongbuk	Imha Reservoir		1,160	159	203
Gyeongbuk	Pohang – Yeongdeok (Yongdeok) Coast		1,079	2,781	2,489
Gyeongbuk	Pyunghae (Pyonghae) – Uljin Coast		8,801	2,897	4,406
Gyeongbuk	Uljin – Wondeok Coast		2,503	2,825	2,823
Gyeongbuk	Wondeok – Samcheok Coast		1,936	463	2,703
Gyeongbuk	Yeongdeok (Yongdeok) – Pyunghae Coast		1,483	3,194	1,504
Chungnam	Sapkyo Lake		25,678	10,705	10,782
Gyeonggi	Asan Bay		3,460	3,388	7,589
Gyeonggi	Asan Lake		2,146	2,367	8,302
Gyeonggi	Daebu Island		4,986	2,269	2,941
Gyeonggi	Han River (Haengju Bridge – Paland Dam)		9,450	18,328	4,245
Gyeonggi	Han River Estuary	I, C	20,395	4,630	7,768
Gyeonggi	Imjin River Estuary	., •	11,759	3,853	758
Gyeonggi	Jungrang (Jungrangcheon) Stream		4,357	8,120	3,905
Gyeonggi	Namhan River		263	637	388
Gyeonggi	Namyang Bay		3,573	10,413	17,274
Gyeonggi	Namyang Reservoir	1	5,323	1,339	4,347
Gyeonggi	Paldang Dam	·	913	412	643
Gveonaai	Siwha (Shihwa) Reservoir	1	36 448	26 631	67 115

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36,448

3,160

3,377

2,796

67,115

3,110

4,258

2,658

780

26,631

2,428

9,698

5,729

587

Table 49: Wetland sites surveyed during the AWC in the Republic of Korea, 2002–2004

Gyeonggi

Gyeonggi

Gyeongnam

Gyeongnam Gyeongnam Angae Reservoir

Dangdong Bay

Siwha (Shihwa) Reservoir

Tan Stream (Tancheon)

Busan – Ulsan Coast

Province	Site Name	Status ¹	2002	2003	2004
Gyeongnam	Donghaemyun, Goseonggun		3,513		
Gyeongnam	Dongpan Reservoir		3,602	3,063	3,661
Gyeongnam	Hoiya (Hweya) Reservoir		1,163	633	1,630
Gyeongnam	Hyongsan River		1,262	1,584	2,344
Gyeongnam	Jinyang Reservoir		2,572	1,457	2,456
Gyeongnam	Junam Reservoirs (Sangnam, Ch'unsan, Dongp'an)		5,784	3,713	4,166
Gyeongnam	Mokpo (Makpo) Marsh		627	799	701
Gyeongnam	Oryundae Reservoir			402	512
Gyeongnam	Sacheon Bay		3,244	4,252	1,617
Gyeongnam	Sajipo Marsh		646	252	548
Gyeongnam	Sangnam Reservoir		412	82	283
Gyeongnam	Taehwa River		8,489	2,680	2.794
Gyeongnam	Upo Marsh	R, I	5,465	2,134	5,338
Incheon	Gangwha Island: South Coastal Mudflats	, .	4,615	2,293	5,399
Incheon	Youngjong Island	1	2,820	2,399	1,239
Incheon	Youngjong Island: Unbukdong	•	1,890	2,951	3,847
Jeju	Hadori	I, pM	3,429	1,801	1,914
Jeju	Hamduck – Hadori Coast	Mq	7,467	2,246	1,706
Jeju	Jeju City – Daejeong Coast	Mq	8,489	17,632	8,421
Jeju	Seoguipo – Anduck Coast	Mq	8,079	3,907	2,574
Jeju	Seongsan – Namwon Coast	Mq	4,668	6,337	2,963
Jeju	Seongsanpo Lake	I, pM	3,744	4,526	5,399
Jeonbuk	Cheongho Reservoir	i, pivi	9,127	1,954	2
Jeonbuk	Dongjin (Tongjin) River Estuary	I, S	34,118	33,931	19,988
Jeonbuk	Dongrim (Dongnim) Reservoir	I, U	151,004	2,005	250,386
Jeonbuk	Gomso Bay	I	247	2,003	165
Jeonbuk	Joryu (Joryugi) Reservoir		282	3,204	1,477
Jeonbuk	Mangyung River Estuary	1	35,834	30,548	42,468
Jeonbuk	Okqu Reservoir	I	1,654	7,120	42,400
Jeonnam	Boseong and Deukryang Bay		520	5,239	1,630
Jeonnam	Dangduri Reclaimed Area		2,098	2,208	1,030
Jeonnam	Dunjeon Reservoir		682	1,172	1,420
Jeonnam	Gangjin Bay		369	1,172	6,607
	Geumho Reservoir		775	2,720	7,395
Jeonnam	Gocheonam Reservoir		823	7,243	
Jeonnam	Gunnae Reclaimed Area		309		87,357
Jeonnam			6.642	2,511	1,898
Jeonnam	Gwangyang (Kwangyang) and Galsa Bay		-) -	3,207	5,435
Jeonnam	Hyungyungmyun and Haejemyun, Muangun		2,697	855	3,248
Jeonnam	Hyungyungmyun, Muangun		4,961	6,429	20,965
Jeonnam	Jeomam Reservoir		626	670	650
Jeonnam	Mandeok Reclaimed Area		68	611	17
Jeonnam	Muan Reservoir	l	3,605	3,865	4,838
Jeonnam	Podumyun Reclaimed Area		779	320	422
Jeonnam	Rangcho Reservoir		354	394	413
Jeonnam	Sanae Reclaimed Reservoir		1,327	1,304	1,804
Jeonnam	Suncheon Bay	R, I, C	4,521	11,572	7,196
Jeonnam	Yeuja (Yeoja) Bay		9,108	14,660	9,035
Jeonnam	Youngsan Reservoir (Estuary)		2,859	48,873	50,134
Jeonnam	Yungam (Yongam) Reservoir		3,891	11,049	7,871
Ulsan	Ulsan Bay		1,732	1,658	513
Ulsan	Ulsan – Guryongpo Coast		3,494	13,279	6,289

Note:

Status¹: R – Ramsar site, pR – part of a Ramsar site, I – Wetland IBA identified by BirdLife International (2005), pI – part of an IBA identified by BirdLife International (2005), A – Anatidae site of the Migratory Waterbird Network in the East Asian Flyway, C – Crane site of the Migratory Waterbird Network in the East Asian Flyway, S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, pM – part of a MAB Biosphere Reserve.

Table 50: Waterbird species counts reported during the AWC in the Republic of Korea, 2002–2004

English Name ¹	Scientific Name	GTS ²	2002	2003	2004
Red-throated Diver	Gavia stellata		18	9	49
Black-throated Diver	Gavia arctica		484	96	48
Pacific Diver	Gavia pacifica		27	19	13
White-billed Diver	Gavia adamsii				1
Little Grebe	Tachybaptus ruficollis		810	740	848
Red-necked Grebe	Podiceps grisegena		6	55	40
Great Crested Grebe	Podiceps cristatus		2,147	1,251	2,249
Horned Grebe	Podiceps auritus		38	40	218
Black-necked Grebe	Podiceps nigricollis		881	834	2,358
Great Cormorant	Phalacrocorax carbo		1,008	947	593

English Name ¹	Scientific Name	GTS ²	2002	2003	2004
Japanese Cormorant	Phalacrocorax capillatus		831	682	776
Pelagic Cormorant	Phalacrocorax pelagicus		111	66	531
unidentified cormorants	Phalacrocoracidae spp.		2	245	10
Grey Heron	Ardea cinerea		1,094	1,055	1,565
Eastern White Egret*	Ardea modesta		604	244	934
Little Egret	Egretta garzetta	VU	334	276	403
Chinese Egret Eastern Reef Heron	Egretta eulophotes Egretta sacra	VU	8	11	26
unidentified egrets	Egretta/Bubulcus spp.		24	1	6
Black-crowned Night-heron	Nycticorax nycticorax		6	17	164
unidentified night-heron	Nycticorax sp.		•		1
Eurasian Bittern	Botaurus stellaris		1	5	3
Black Stork	Ciconia nigra				2
Oriental Stork	Ciconia boyciana	EN	10	1	9
Eurasian Spoonbill	Platalea leucorodia		26	34	146
Black-faced Spoonbill	Platalea minor	EN	25	25	23
Mute Swan	Cygnus olor		29	4.400	1.007
Whooper Swan	Cygnus cygnus		2,942	4,133	4,867
Tundra (Whistling) Swan Swan Goose	Cygnus columbianus	EN	<u>214</u> 11	<u>220</u> 16	<u>56</u> 36
Bean Goose	Anser cygnoides Anser fabalis	EIN	31,866	30,828	34,856
Greater White-fronted Goose	Anser albifrons		30,428	33.583	54,481
Lesser White-fronted Goose	Anser erythropus	VU	00,120	00,000	2
Lesser Snow Goose	Chen (Anser) caerulescens		2	5	2
unidentified grey geese	Anser spp.		500	1	
Brent Goose	Branta bernicla			26	87
Ruddy Shelduck	Tadorna ferruginea		1,635	1,720	1,498
Common Shelduck	Tadorna tadorna		19,565	23,051	30,986
Mandarin Duck	Aix galericulata		1,754	2,288	1,103
Eurasian Wigeon	Anas penelope	NT	5,560	6,071	6,813
Falcated Duck Gadwall	Anas falcata Anas strepera	NT	1,965 2,757	2,254 4,887	1,786 5,019
Baikal Teal	Anas strepera Anas formosa	VU	287,206	303,169	455,168
Common Teal	Anas crecca	v0	18,636	13,860	18,076
Mallard	Anas platyrhynchos		255,421	254,554	240,771
Spot-billed Duck	Anas poecilorhyncha		62,051	58,028	67,806
Northern Pintail	Anas acuta		22,814	19,997	18,348
Northern Shoveler	Anas clypeata		2,214	3,838	2,935
Common Pochard	Aythya ferina		25,591	26,000	25,014
Tufted Duck	Aythya fuligula		2,639	5,939	7,677
Greater Scaup	Aythya marila		8,013	12,876	4,699
Harlequin Duck	Histrionicus histrionicus		6	11	63
Common Scoter	Melanitta nigra		30	196	123
Velvet Scoter Long-tailed Duck	Melanitta fusca Clangula hyemalis		1,060	140	242
Common Goldeneye	Bucephala clangula		4,323	4,061	3,519
Smew	Mergellus albellus		1,071	534	631
Red-breasted Merganser	Mergus serrator		1,587	1,834	709
Scaly-sided Merganser	Mergus squamatus	EN	2) - -	1
Goosander	Mergus merganser		5,755	8,023	5,718
unidentified ducks	Anatinae spp.		3,744	1,050	828
White-naped Crane	Grus vipio	VU	437	507	626
Common Crane	Grus grus			2	1
Hooded Crane	Grus monacha	VU	122	136	216
Red-crowned Crane	Grus japonensis	EN	545	388	582
hybrid crane	Grus grus x Grus monacha Gallinula chloropus		7	22	26
Common Moorhen Common Coot	Fulica atra		3,179	<u>33</u> 5,784	<u>36</u> 5,341
Greater Painted Snipe	Rostratula benghalensis		5,179	<u> </u>	5,541
Eurasian Oystercatcher	Haematopus ostralegus		3,556	5,504	2,272
Black-winged Stilt	Himantopus himantopus		-,	-,	5
Pied Avocet	Recurvirostra avosetta			2	
Northern Lapwing	Vanellus vanellus		113	84	159
Pacific Golden Plover	Pluvialis fulva				1
Grey Plover	Pluvialis squatarola		1,569	1,702	2,319
Long-billed Plover	Charadrius placidus		29	15	16
Kentish Plover	Charadrius alexandrinus		156	203	489
Common Snipe	Gallinago gallinago			10	3
Bar-tailed Godwit	Limosa lapponica		2	5 024	0.470
Eurasian Curlew	Numenius arquata		2,077	5,034	2,170
unidentified curlews	Numenius spp. Tringa nebularia		10	338	1
Common Greenshank	Tringa nebularia			2	1

Results: East Asia

English Name ¹	Scientific Name	GTS ²	2002	2003	2004
Green Sandpiper	Tringa ochropus		1	4	18
Terek Sandpiper	Xenus cinereus		68		15
Common Sandpiper	Actitis hypoleucos		11	83	35
Ruddy Turnstone	Arenaria interpres			1	
Sanderling	Calidris alba		1	255	408
Dunlin	Calidris alpina		5,619	15,613	5,847
unidentified Calidris sandpipers	Calidris spp.		386	556	· · · · ·
unidentified shorebirds	Charadrii spp.		40	1,202	265
Black-tailed Gull	Larus crassirostris		21,146	25,814	15,769
Common (Mew) Gull	Larus canus		3,578	5,328	6,893
Glaucous-winged Gull	Larus glaucescens		14	18	23
Glaucous Gull	Larus hyperboreus		23	52	57
Iceland Gull	Larus glaucoides			1	2
Herring Gull	Larus argentatus		27,436	29,863	21,198
Heuglin's Gull	Larus heuglini		135	32	25
Slaty-backed Gull	Larus schistisagus		4,467	1,522	2,431
Yellow-legged Gull	Larus cachinnans		165	1,022	284
Common Black-headed Gull	Larus ridibundus		8,374	22,267	11,722
Saunders's Gull	Larus saundersi	VU	505	1,393	1,853
Relict Gull	Larus relictus	VU	505	2	1,000
Black-legged Kittiwake	Larus tridactyla	VU	71	105	45
unidentified gulls	Laridae spp.		200	1,150	200
Total Waterbirds	Lanuae spp.		893.933	,	1,086,270
	Cararbinaa managarata		,	954,860	1,000,270
Rhinoceros Auklet	Cerorhinca monocerata		26	20	
Ancient Murrelet	Synthliboramphus antiquus Pandion haliaetus		287	36	2
Osprey			12	17	19
Black Kite	Milvus migrans	NT	13	32	18
White-tailed Eagle	Haliaeetus albicilla	NT	12	19	30
Steller's Sea-eagle	Haliaeetus pelagicus	VU	3	3	450
Cinereous Vulture	Aegypius monachus	NT	149	475	456
Hen Harrier	Circus cyaneus		29	39	22
Eastern Marsh Harrier	Circus spilinotus			3	
Japanese Sparrowhawk	Accipiter gularis		2	1	1
Eurasian Sparrowhawk	Accipiter nisus		2	9	8
Northern Goshawk	Accipiter gentilis		3	5	9
Common Buzzard	Buteo buteo		70	61	90
Upland Buzzard	Buteo hemilasius		2	4	1
Rough-legged Hawk	Buteo lagopus		2	5	
Imperial Eagle	Aquila heliaca	VU	1		
Golden Eagle	Aquila chrysaetos		4	6	2
Common Kestrel	Falco tinnunculus		82	84	117
Merlin	Falco columbarius		2	3	4
Peregrine Falcon	Falco peregrinus		4	11	12
unidentified raptors			1		2
Common Kingfisher	Alcedo atthis			5	3
White Wagtail	Motacilla alba			164	259
Grey Wagtail	Motacilla cinerea			3	3
Yellow Wagtail	Motacilla flava			1	
Japanese Wagtail	Motacilla grandis			47	43
unidentified wagtails	Motacilla spp.				1
Oliver-backed Pipit	Anthus hodgsoni			30	23
Buff-bellied Pipit	Anthus rubescens			815	647
unidentified pipits	Anthus spp.		20	0.0	• • •
			24		

Notes:
 English Name¹ – Nial Moores (pers. comm., January 2007) suggests that almost all Great Egret recorded in Republic of Korea in the non-breeding period are *Ardea alba* and not Eastern White Egret *Ardea modesta*.
 GTS² – Globally threatened and near threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.4.5 Mongolia

The Khar Us Nuur National Park, Khovd Province in western Mongolia, was surveyed in 2003, and this is the first report provided since 2001 (Figure 24); the site is also a Ramsar site and an IBA. A total of 848 individuals of four waterbird species were recorded (192 Whooper Swans, 612 Common Goldeneyes, 3 Smew and 42 Goosanders). In addition, three Near Threatened White-tailed Sea Eagles were recorded.

Major threats to the National Park are sedimentation, cutting /clearance of vegetation, cattle grazing, fertiliser pollution, large-scale fishing, partial reclamation and dam construction. The count was taken from Batbayar (2003).

3.4.6 Eastern Russia

Three sites were reported with 5,556 waterbirds (2 sites), 7,354 (1 site) and 12,891 (2 sites) surveyed in 2002, 2003 and 2004 respectively (Figure 30 and Table 51). Two sites, Source of the Angara River and Avacha Bay (Petropavlovsk–Kamchatsky), are IBAs.

Eleven waterbird and two raptor species were recorded. The most numerous species was Common Goldeneye, with a highest count of 12,400 in 2004 (Table 52). The two raptor species were the Vulnerable Steller's Sea-eagle (30 in 2002) and the Near Threatened White-tailed Eagle (7 in 2004).

Some minor pollution issues were reported. The data were contributed by individual counters.

Figure 30: AWC site coverage and numerical distribution of waterbirds in eastern Russia, 2002–2004

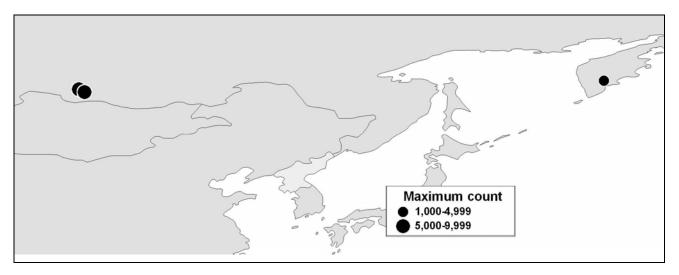


Table 51: Wetland sites surveyed during the AWC in eastern Russia, 2002–2004

Region	Site Name	Status ¹	Threats ²	2002	2003	2004
Irkutsk	Source of Angara River	I	9			5,458
Irkutsk	Upper Stream of Angara River in Irkutsk		89A	2,500	7,354	7,440
Kamtchatka	Avacha Bay (Petropavlovsk–Kamchatsky)	I		3,086		

Notes:

Status¹: I – Wetland IBA identified by BirdLife International (2005).

Threats²: 8 – Domestic sewage, 9 – Solid waste, A – Industrial waste.

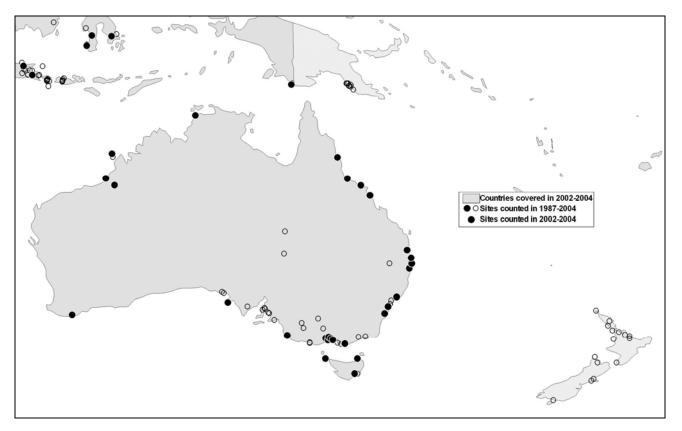
English Name	Scientific Name	GTS ¹	2002	2003	2004
Pelagic Cormorant	Phalacrocorax pelagicus		12		
Whooper Swan	Cygnus cygnus		10		
Mallard	Anas platyrhynchos			140	227
Harlequin Duck	Histrionicus histrionicus		6		
Long-tailed Duck	Clangula hyemalis		3,300		22
Common Goldeneye	Bucephala clangula		2,200	7200	12,400
Smew	Mergellus albellus				4
Red-breasted Merganser	Mergus serrator				25
Goosander	Mergus merganser		3	14	213
Glaucous Gull	Larus hyperboreus		5		
Slaty-backed Gull	Larus schistisagus		20		
Total Waterbirds			5,556	7,354	12,891
White-tailed Eagle	Haliaeetus albicilla	NT			7
Steller's Sea-eagle	Haliaeetus pelagicus	VU	30		

Table 52: Waterbird species counts reported during the AWC in eastern Russia, 2002–2004

Note: GTS¹ – Globally threatened and near threatened species as identified by BirdLife International (2006): VU – Vulnerable and NT – Near Threatened.

3.5 Australasia

For the Australasian region information was received only from Australia, with no counts received from New Zealand or Papua New Guinea during this period (Figure 31).





3.5.1 Australia

Only shorebird counts carried out by the Australasian Wader Studies Group were submitted and included in the AWC report. Thirty-one sites were surveyed in AWC 2002–2004 (Figure 32 and Table 53). Total numbers of shorebirds recorded were 348,585 (29 sites), 364,816 (29 sites) and 273,181 (26 sites) in AWC 2002, 2003 and 2004, respectively. The data were published in *The Stilt* 44, 46 and 48 (Skewes 2003, 2004, 2005).

Seven Ramsar sites were surveyed, namely Eighty Mile Beach, East Derwent (Pittwater), Hunter Estuary, Moreton Bay, Corner Inlet, Eastern Port Phillip and Westernport Bay. The latter five sites are also Migratory Waterbird Network sites on the East Asian – Australasian Flyway for shorebirds.

Sites that recorded more than 20,000 shorebirds were Eighty Mile Beach (142,643 in 2002), Broome (49,880 in 2003), Townsville (32,703 in 2003), Western Eyre Peninsula (32,627 in 2003), Corner Inlet East (31,432 in 2004), Moreton Bay (22,617 in 2004), Bellarine Peninsula (22,205 in 2003) and Tasmania – North West Coast (22,403 in 2004). A total of 20 sites recorded more than 1% of the biogeographic population of at least one waterbird species.

Forty-seven shorebird species were recorded (Table 54). The most numerous species were Red-necked Stint (102,074 in 2003), Great Knot (68,413 in 2002), Bar-tailed Godwit (56,773 in 2004), Greater Sandplover (38,289 in 2002), Curlew Sandpiper (16,824 in 2002), Oriental Plover (16,746 in 2003), Sharp-tailed Sandpiper (16,224 in 2003), Grey-tailed Tattler (16,121 in 2002), Banded Stilt (12,667 in 2002), Red Knot (11,214 in 2002) and Red-capped Plover (10,367 in 2003).

Near Threatened species recorded were Bush Thick-knee (9 in 2003), Beach Thick-knee (17 in 2003), Hooded Plover (92 in 2002), Asian Dowitcher (3 in 2002) and Black-tailed Godwit (3,299 in 2004).

Information on threats to the wetlands and waterbirds was not provided.

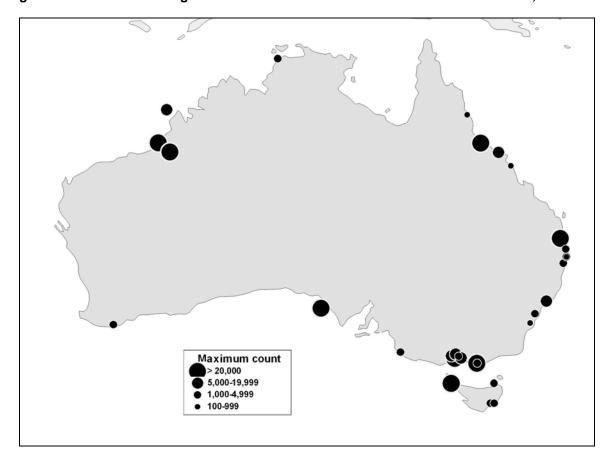


Figure 32: AWC site coverage and numerical distribution of shorebirds in Australia, 2002–2004

State	Site Name	Status	2002	2003	2004
New South Wales	Botany Bay		872	986	1,192
New South Wales	Clarence Estuary		2,471	1,961	788
New South Wales	Hastings		230		
New South Wales	Hunter Estuary	R, S	5,314	8,301	3,497
New South Wales	Parramatta Estuary		1,005	546	683
New South Wales	Richmond Estuary		573	742	567
New South Wales	Shoalhaven Estuary		490	816	881
New South Wales	Tweed Estuary		744	2,313	46
Northern Territory	Darwin			1,086	4,140
Queensland	Bowen		850	17,354	37
Queensland	Cairns		771	375	683
Queensland	Mackay		943		
Queensland	Moreton Bay	R, S	21,670	11,673	22,671
Queensland	Townsville		5,919	32,703	5,112
South Australia	South East Coast – South Australia		2,744	2,169	2,722
South Australia	Western Eyre Peninsula			32,627	
Tasmania	Cape Portland		2,164	1,379	650
Tasmania	East Derwent (Pittwater)	pR	3,628	2,582	4,055
Tasmania	Marion Bay		1,155	606	361
Tasmania	Tasmania – North West Coast		18,891	13,404	20,403
Victoria	Altona		3,733	11,595	5,885
Victoria	Bellarine Peninsula		18,343	23,205	22,165
Victoria	Corner Inlet East	R, S	25,679	26,273	31,432
Victoria	Corner Inlet West		3,821	3,672	602
Victoria	Eastern Port Phillip	R, S	2,049	210	283

State	Site Name	Status	2002	2003	2004
Victoria	Werribee		15,350	19,752	13,678
Victoria	Westernport Bay	R, S, pM	14,386	7,123	13,725
Western Australia	Eighty Mile Beach	R	142,643	80,502	70,274
Western Australia	Albany		4,879	1,270	
Western Australia	Broome		39,731	49,880	46,649
Western Australia	Swan River		7,537	9,711	

Note:

Status: R – Ramsar site, pR – part of a Ramsar site, S – Shorebird site of the Migratory Waterbird Network in the East Asian – Australasian Flyway, pM – part of a MAB Biosphere Reserve.

Table 54: Shorebird species counts reported during the AWC in Australia, 2002–2004

English Name	Scientific Name	GTS ¹	2002	2003	2004
Australian Pied Oystercatcher	Haematopus longirostris		4,416	5,046	4,068
Sooty Oystercatcher	Haematopus fuliginosus		724	1,760	785
Black-winged Stilt	Himantopus himantopus		4,155	6,702	1,474
Banded Stilt	Cladorhynchus leucocephalus		12,667	10,190	5,799
Red-necked Avocet	Recurvirostra novaehollandiae		4,517	6,185	987
Bush Thick-knee	Burhinus grallarius	NT	3	9	
Beach Thick-knee	Burhinus gigantean (Esacus magnirostris)	NT	2	17	2
Australian Pratincole	Stiltia isabella			12	
Oriental Pratincole	Glareola maldivarum			38	40
Banded Lapwing	Vanellus tricolor		66	184	
Masked Lapwing	Vanellus miles		2,425	3,274	2,436
Red-kneed Dotterel	Erythrogonys cinctus		99	99	10
Pacific Golden Plover	Pluvialis fulva		1,347	1,836	1,705
Grey Plover	Pluvialis squatarola		941	1,791	1,163
Great Ringed Plover	Charadrius hiaticula			2	,
Red-capped Plover	Charadrius ruficapillus		3,019	10,367	4,174
Double-banded Plover	Charadrius bicinctus		81	64	127
Lesser Sandplover	Charadrius mongolus		713	1,855	1,929
Greater Sandplover	Charadrius leschenaultii		38,289	10.972	14.543
Oriental Plover	Charadrius veredus		8,447	16,746	335
Hooded Plover	Charadrius rubricollis	NT	92	71	45
Black-fronted Dotterel	Elsevornis melanops		123	292	61
Latham's Snipe	Gallinago hardwickii		199	158	87
Asian Dowitcher	Limnodromus semipalmatus	NT	3	100	1
Black-tailed Godwit	Limosa limosa	NT	1,075	2,620	3,299
Bar-tailed Godwit	Limosa lapponica		41,763	40,141	56,773
Little Curlew	Numenius minutus		359	129	1,170
Whimbrel	Numenius phaeopus		1,855	2,415	918
Far Eastern Curlew	Numenius madagascariensis		6,018	6,349	4,276
Common Redshank	Tringa totanus		0,010	1	1,210
Marsh Sandpiper	Tringa stagnatilis		574	1,155	329
Common Greenshank	Tringa nebularia		2.225	2.711	1.906
Wood Sandpiper	Tringa glareola		_,0	_,	8
Terek Sandpiper	Xenus cinereus		6,799	5,489	4,852
Common Sandpiper	Actitis hypoleucos		26	93	38
Grey-tailed Tattler	Heteroscelus brevipes		16,121	5,076	8,368
Wandering Tattler	Heteroscelus incanus		2	0,010	0,000
Ruddy Turnstone	Arenaria interpres		2,937	4,324	2,291
Great Knot	Calidris tenuirostris		68,413	64,347	37,476
Red Knot	Calidris canutus		11,214	4,866	4,694
Sanderling	Calidris alba		878	1,118	218
Red-necked Stint	Calidris ruficollis		80.081	102.074	87.175
Long-toed Stint	Calidris subminuta		1	,011	0.,110
Pectoral Sandpiper	Calidris melanotos		•		1
Sharp-tailed Sandpiper	Calidris acuminata		8,113	16,224	6,512
Curlew Sandpiper	Calidris ferruginea		16.824	14,651	13.001
Broad-billed Sandpiper	Limicola falcinellus		3	33	10,001
unidentified shorebirds	Charadrii spp.		976	13,330	100
Total Shorebirds			348,585	364,816	273,181
			040,000	004,010	210,101

Note: GTS¹ – Globally threatened species as identified by BirdLife International (2006): CR – Critically Endangered; EN – Endangered; VU – Vulnerable; NT – Near Threatened.

3.6 Status and Distribution of Selected Species

The regional coverage of the AWC offers an opportunity to review the distribution and status of species across their range in Asia on a regular basis. Most species with a noteworthy count (besides those species considered as vagrant in the AWC region, or for which very few reports were received) are covered in this section. Internationally important sites were identified according to the 1% criterion provided in *Waterbird Population Estimates – Fourth Edition* (Wetlands International 2006). The 1% criterion provided in Bamford *et al.* (2006) was applied for some shorebird species in the East Asian – Australasian flyway region. For globally threatened species (CR, EN and VU), a full list of sites is provided. Maps of species distribution are provided in section 3.6.30.

The most widespread species include Little Egret (recorded at 1,337 sites), Grey Heron (1,079), Little Grebe (994 sites), Cattle Egret (987), Little Cormorant (961), Eastern Great Egret (954), Indian Pond-heron (937), Common Sandpiper (926), Intermediate Egret (830), Red-wattled Lapwing (771 sites), Common Coot (735), Northern Pintail (722), Black-winged Stilt (717) and Common Teal (704).

Wetland-dependent species were not reported from all countries, therefore the information presented in the report does not give a comprehensive picture of the total status and distribution of these species during the AWC count.

3.6.1 Divers – Gaviidae

Red-throated (Diver) Loon Gavia stellata

1% = 1,000 (East Asia). The species was reported on the coast of China and Republic of Korea. No site met the 1% criterion. This is largely coastal/offshore species and hence is undercounted.

Pacific Diver Gavia pacifica

1% = 1,000 (East Asia). The species was recorded only on the coast of Republic of Korea. No site met the 1% criterion. This is largely coastal/offshore species and hence is undercounted.

3.6.2 Grebes – Podicipedidae

Little Grebe Tachybaptus ruficollis

1% = 10,000 (*capensis*, South Asia), 10,000 (*poggei*, East and Southeast Asia); Philippines and Indonesian populations unknown. This was one of the species most widely distributed across the AWC range, being recorded at 994 sites. This species is not particularly congregatory although it occurs in small aggregations, therefore it is unlikely that any one site could hold 1% of the population.

Great Crested Grebe Podiceps cristatus

1% = 250 (*cristatus*, South Asia), 375 (*cristatus*, East Asia). The species was widely recorded across South, East and Southeast Asia (south to Thailand). Six sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Daguan Hu	647	2004
India	Rajasthan	Vardha Dam	300	2004
India	Uttarakhand	Baur Reservoir	405	2004
India	Uttarakhand	Tumeria Dam	340	2004
Republic of Korea	Chungnam	Ganwol Reservoir	1,045	2002
Republic of Korea	Gyeongbuk	Wondeok – Samcheok Coast	380	2004

Black-necked Grebe Podiceps nigricollis

1% = 1,000 (*nigricollis*, East Asia), 250 (*nigricollis*, South and Southwest Asia). The species was recorded at a small number of sites in South Asia, East Asia and Myanmar. Only one site, Gwangyang and Galsa Bay in Jeonnam Province, Republic of Korea, met the 1% criterion (1,808 individuals in 2004).

3.6.3 Pelicans – Pelecanidae

Great White Pelican Pelecanus onocrotalus

1% = 230 (South Asia). The species was recorded only in India and Pakistan; 21 sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Nellapattu Pelican Sanctuary	606	2003
India	Andhra Pradesh	Uppalapadu Water Tank	591	2004
India	Gujarat	Amipur Tank	2,700	2004
India	Gujarat	Chhari Dhandh	600	2002
India	Gujarat	Great Rann of Kachchh	2,295	2004
India	Gujarat	Hamirsar Tank	250	2002
India	Gujarat	Jamnagar District: Dwaraka Taluka wetlands	890	2003
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	528	2003
India	Gujarat	Jamnagar District: Khambhalia Taluka wetlands	356	2003
India	Gujarat	Kalubhar Dam	1,100	2004
India	Gujarat	Naika Dam	250	2004
India	Gujarat	Nava Talao	800	2003
India	Gujarat	Par	300	2004
India	Gujarat	Pipalava Bandharo (Kaj)	300	2003
India	Gujarat	Sudamda Pond	250	2002
India	Gujarat	Veri Dam	480	2004
Pakistan	Sindh	Haleji Lake	570	2002
Pakistan	Sindh	Hudero Lake	320	2003
Pakistan	Sindh	Jabho Lake	900	2002
Pakistan	Sindh	Nur-Ri Lake	350	2003
Pakistan	Sindh	Phoosna	860	2003

Spot-billed Pelican Pelecanus philippensis VU

1% = 135 (East India, Sri Lanka and Myanmar), 45 (Cambodia, Laos, Vietnam and Thailand), 1 (Sumatra). The species is restricted to South and Southeast Asia. It was recorded at a total of 100 sites, 14 of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	870	2004
Cambodia	Battambang	Prek Toal	2,691	2003
India	Andhra Pradesh	Nellapattu Pelican Sanctuary	700	2002
India	Andhra Pradesh	Pulicat Lake Bird Sanctuary	1,658	2003
India	Andhra Pradesh	Uppalapadu Water Tank	320	2003
India	Assam	Kaziranga National Park	230	2003
India	Karnataka	Dadada Halli Tank	169	2004
India	Tamil Nadu	Karavetty Tank	375	2003
India	Tamil Nadu	Koonthankulam Bird Sanctuary	150	2003
India	Orissa	Chilika Lake	173	2003
Sri Lanka	WP	Beira Lake	158	2004
Sri Lanka	NCP	Pimburettawa Tank	350	2002
Sri Lanka	NP	Giant's Tank	147	2002
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	59	2004
Other sites when	e the species was recorded	1		
Cambodia	Kampong Thom	Chinit River	2	2004
Cambodia	Kandal	Bassac Marshes	1	2002
India	Andhra Pradesh	Coringa Wildlife Sanctuary	40	2003
India	Andhra Pradesh	Naupada Swamps	9	2002
India	Assam	Bordoibam Bilmukh Bird Sanctuary	20	2003
India	Assam	Bordoloni	12	2003
India	Assam	Chenamari Beel	32	2003
India	Assam	Kani Beel	15	2004
India	Assam	Kuarbari-Dalani	125	2003
India	Assam	Misamari Beel	27	2003
India	Gujarat	Dholi Dhaja Dam	6	2004
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	1	2003
India	Gujarat	Naika Dam	4	2004
India	Gujarat	Nava Talao	15	2003
India	Karnataka	Bannur Heggere	2	2004
India	Karnataka	Byramangala Reservoir	8	2004
India	Karnataka	Gejjagalri Kere	2	2003
India	Karnataka	Hadinarli	2	2003
India	Karnataka	Karigala Tank	2	2004
India	Karnataka	Krishnaraja Sagar Reservoir	76	2004
India	Karnataka	Lingambudhi Tank	12	2004

Country	Region	Site Name	Peak Count	Year
India	Karnataka	Mandakalli Tank	75	2003
India	Karnataka	Nelligudda Tank	3	2004
India	Karnataka	Tippagondana Halli	3	2004
India	Kerala	Punchakari	1	2002
India	Orissa	Daha Dam	4	2002
India	Orissa	Dhulia Nali Dam – Manpur	13	2003
India	Orissa	Erra Tank	2	2003 2002
India	Orissa	Harabhangi	28	
India India	Orissa Orissa	Hirakud Reservoir	<u> </u>	2002 2003
India	Orissa	Kalingodola (on Bahuda River) Krishna Sagara Donuru	28	2003
India	Orissa	Kuspangi Pato		2002
India	Orissa	Raga Tank	3	2003
India	Orissa	Raghunath Sagar	4	2002
India	Orissa	Tampara Backwaters	8	2003
India	Tamil Nadu	Andi Odai Tank	18	2002
India	Tamil Nadu	Suchindram Tank	4	2004
India	Tamil Nadu	Theroor Wetland Complex	20	2004
India	Tamil Nadu	Uppalam	1	2004
India	Uttar Pradesh	Nanakmata Reservoir	30	2004
India	Uttar Pradesh	National Chambal Sanctuary	88	2003
Myanmar	Kachin	Indaw R: Changgwa – Kahtangyaung	9	2004
Myanmar	Kachin	Indaw – Gyi Lake	20	2003
Myanmar	Mandalay	Ngalaik Reservoir (Nga Like Dam)	2	2002
Sri Lanka	CP	Minipe Canal	1	2003
Sri Lanka	EP	Akkaraipattu to Batticaloa	2	2003
Sri Lanka	EP	Akkaraipattu to Panama	134	2003
Sri Lanka	EP	Ampara	32	2003
Sri Lanka	EP	Lahugala to Arugam Bay	6	2004
Sri Lanka	EP	Maduru Oya NP	22	2002
Sri Lanka	EP	Ruhuna East National Park	73	2003
Sri Lanka	NCP	Anuradhapura Tanks	19	2003
Sri Lanka	NCP	Anuradhapura–Medawacchiya–Giant's Tank Roadside	54	2003
Sri Lanka	NCP	Giritale Tank	30	2004
Sri Lanka	NCP	Kaudulla Tank	30	2002
Sri Lanka	NCP	Minneriya National Park	92	2004
Sri Lanka	NCP	Nacchaduwa Reservoir	59	2003
Sri Lanka	NCP	Parakrama Samudraya	30	2004
Sri Lanka	NP	Uppu Aru Lagoon	6	2002
Sri Lanka	NP	Vadamaradchi Lagoon	15	2002
Sri Lanka	NP	Vankalai Triangle	9	2004
Sri Lanka	NWP	Galgamuwa Area	4	2003
Sri Lanka	NWP	Kimbulwana Tank	3	2003
Sri Lanka	NWP	Tabbowa Tank	2	2002
Sri Lanka	SP	Bundala National Park	33	2004
Sri Lanka	SP	Debara Wewa	6	2002
Sri Lanka	SP	Hambantota Wetlands	41	2004
Sri Lanka	SP	Kalametiya – Lunama Sanctuary	1	2002
Sri Lanka	SP SP	Palatupana Saltern Ruhuna National Park: Block I	25	2004 2004
Sri Lanka	SP SP		8	
Sri Lanka Sri Lanka	SP SP	Tangalla Mangrove Tangalla Marshes	<u>2</u> 5	2004
Sri Lanka	SP SP	Tissa Wewa	10	2004
Sri Lanka	SP	Wirawila Tank	10	2004
Sri Lanka	SP	Yodakandiya Tank	15	2004
Sri Lanka	SABP	Chandrika Wewa	20	2004
Sri Lanka	SABP	Suriya Wewa	73	2002
Sri Lanka	UVAP	Belagan Wewa	5	2003
Sri Lanka	UVAP	Uda Walawe National Park	35	2003
Sri Lanka	UVAP	Ulhitiya and Ratkinda Reservoirs	42	2004
Sri Lanka	WP	Bellanwila–Pillewa–Attidiya Marshes	6	2002
Sri Lanka	WP	Kotte Marshes	1	2000
Sri Lanka	WP	Maharagama	3	2003
Sri Lanka	WP	Talangama Tank	1	2003

Dalmatian Pelican Pelecanus crispus VU

1% = 75 (South and Southwest Asia), 1 (East Asia). The species was recorded at 50 sites in South Asia and China; seven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Hong Kong	Deep Bay	15	2002
China	Taiwan Kaohsiung	Kao-Ping-Hsi (River)	1	2004
China	Taiwan Tainan	Tseng-Wen Chi (River)	1	2004
India	Gujarat	Amipur Tank	500	2004
Pakistan	Baluchistan	Aakra River Estuary (on Arabian Sea)	850	2002
Pakistan	Baluchistan	Dasht Hor	97	2002
Pakistan	Sindh	Phoosna	125	2003
Other sites when	re the species was recorded			
India	Gujarat	Aji-I	2	2002
India	Gujarat	Bajana Creek – Tandi	6	2003
India	Gujarat	Bhadar Dam	12	2002
India	Gujarat	Charakla Saltworks	27	2002
India	Gujarat	Devisar Tank	3	2002
India	Gujarat	Dholi Dhaja Dam	20	2002
India	Gujarat	Don Reservoir	1	2003
India	Gujarat	Gaurishanker Lake	15	2002
India	Gujarat	Great Rann of Kachchh	3	2004
India	Gujarat	Jafarabad Coast	2	2003
India	Gujarat	Jamnagar District: Dwaraka Taluka wetlands	44	2003
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	4	2003
India	Gujarat	Javar	2	2004
India	Gujarat	Kalubhar Dam	1	2004
India	Gujarat	Karli Dam	2	2004
India	Gujarat	Kukma Village Tank	1	2003
India	Gujarat	Kuvadwa	4	2004
India	Gujarat	Lakhota Lake	4	2003
India	Gujarat	Lunivay Dam	2	2004
India	Gujarat	Nakti Creek (New Kandla)	6	2003
India	Gujarat	Nani Kakrad	1	2004
India	Gujarat	Nava Talao	20	2003
India	Gujarat	New Port Saltpans, Bhavnagar	15	2003
India	Gujarat	Nvari-l	3	2003
India	Gujarat	Pipalava Bandharo (Kaj)	4	2003
India	Gujarat	Rudarmata Dam	2	2003
India	Gujarat	Sakariya and Bherai Pond	1	2004
India	Gujarat	Sattapar Dam	2	2002
India	Gujarat	Sokhda Talav	38	2002
India	Gujarat	Sudamda Pond	21	2002
India	Gujarat	Thol Lake Bird Sanctuary	3	2002
India	Gujarat	Veri Dam	12	2003
India	Gujarat	Victor (Bherai) Salt Pans and Coastal Area	2	2004
India	Orissa	Chilika Lake	6	2003
India	Orissa	Daha Dam	1	2003
India	Rajasthan	Jalmahal Lake	1	2002
India	Rajasthan	Kaylana	1	2003
India	Rajasthan	Vardha Dam	35	2003
Pakistan	Baluchistan	Akara (Kaur) Dam		2004
Pakistan	Baluchistan	Saiji Dam	45	2002
Pakistan	Sindh	Hub Dam	<u> </u>	2002
Pakistan	Sindh	Hub Dam Hub River Mouth	4	2003
Pakistan	Sindh	Indus River Mouth	4 6	2003
r dhisidi)	Sinun		6	2003

3.6.4 Cormorants – Phalacrocoracidae

Great Cormorant Phalacrocorax carbo

1% = 1,000 (*sinensis,* Central and South Asia), 1,000 (*sinensis,* East and Southeast Asia), 550 (*hanedae,* Japan). The species was widely recorded across its range with 14 sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Hunan	East Dongting Lake NR	2,200	2004
China	Jiangxi	Poyang Lake	1,353	2003
China	Hong Kong	Deep Bay	8,964	2004
China	Taiwan Chinmen	Chin-Men Island	3,580	2003
China	Taiwan Kaohsiung	Feng-Shan Reservoir	2,829	2004

Country	Region	Site Name	Peak Count	Year
China	Taiwan Kaohsiung	Kao-Ping-Hsi (River)	2,000	2004
India	Himachal Pradesh	Pong Dam Bird Sanctuary	6,233	2004
India	Orissa	Chilika Lake	1,123	2003
India	Orissa	Harabhangi	1,200	2002
Japan	Aichi	Kiso River Mouth	2,028	2002
Japan	Aichi	Uno Pond	716	2002
Japan	Ibaraki	Kasumigaura Nangan Sakuragawa-Mura	1,020	2004
Japan	Osaka	Yodogawa River	765	2003
Pakistan	Sindh	Hamal (Katchri) Lake	1,260	2003

Indian Cormorant Phalacrocorax fuscicollis

1% = 300. The species is restricted to South and Southeast Asia; 12 sites met the 1% criterion. The peak count total of 287 sites across the three years was 31,707 individuals. It is suggested that the population estimates to be increased to 30,000–50,000 from 30,000.

Country	Region	Site Name	Peak Count	Year
Cambodia	Battambang	Prek Toal	11,188	2004
India	Andhra Pradesh	Sangameshwara	400	2002
India	Gujarat	Krushnakunj Lake	300	2004
India	Gujarat	Onchal Lake	5,000	2004
India	Tamil Nadu	Kaliveli Tank	562	2003
India	Uttar Pradesh	Nanakmata Reservoir	400	2002
India	West Bengal	Alipore Zoological Gardens	586	2002
Sri Lanka	CP	Minipe Canal	2,000	2004
Sri Lanka	EP	Akkaraipattu to Batticaloa	1,151	2003
Sri Lanka	EP	Akkaraipattu to Panama	1,375	2003
Sri Lanka	EP	Ampara	406	2003
Sri Lanka	NCP	Wasgomuwa National Park	900	2002

Little Cormorant Phalacrocorax niger

1% = 2,500 (South Asia), 1,000 (Southeast Asia). The species is restricted to South and Southeast Asia. It is one of most widely distributed species, being recorded at 961 sites; 14 sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Battambang	Prek Toal	1,120	2002
Myanmar	Kachin	Indaw-Gyi Lake	1,000	2003
Thailand	Nakhon Sawan	Bung Boraphet	2,563	2004
Thailand	Pattalung	Thale Noi Non-hunting Area	1,088	2004
Thailand	Petchaburi	Pak Thale (Laem Phak Bia)	1,500	2004
Thailand	Petchaburi	Wat Khao Takhrao	1,950	2003
Thailand	Samut Prakan	Bangpoo Bang Pu	1,500	2003
India	Andhra Pradesh	Chikkadapally	4,000	2002
India	Andhra Pradesh	Manjira Wildlife Sanctuary	6,240	2002
India	Kerala	Kole Wetlands	3,000	2004
India	Orissa	Bhitarkanika Mangrove	4,252	2003
India	Orissa	Chilika Lake	9,237	2002
India	Orissa	Hirakud Reservoir	3,280	2002
India	Orissa	Sundar Dam	3,220	2002

3.6.5 Darters – Anhingidae

Oriental Darter Anhinga melanogaster NT

1% = 40 (South Asia), 100 (Southeast Asia). The species is restricted to South and Southeast Asia; a total of 16 sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Battambang	Prek Toal	1,919	2003
India	Andhra Pradesh	Manjira Wildlife Sanctuary	55	2002
India	Gujarat	Jamnagar District: Khambhalia Taluka wetlands	48	2003
India	Kerala	Kole Wetlands	50	2004
India	Kerala	Vembanad: Kumarakom Tourist Complex	42	2004
India	Maharashtra	Kangaon – Nangaon	40	2004
India	Maharashtra	Visapur Tank	50	2004
India	Orissa	Bhitarkanika Mangrove	75	2003
India	Orissa	Chilika Lake	108	2003
India	Orissa	Hirakud Reservoir	40	2002

Country	Region	Site Name	Peak Count	Year
India	Tamil Nadu	Suchindram Tank	60	2004
India	Uttar Pradesh	Nanakmata Reservoir	55	2002
India	Uttar Pradesh	Sur Sarovar Bird Sanctuary	200	2003
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	104	2002
Sri Lanka	NP	Kattaiadampan	60	2002
Sri Lanka	SP	Ruhuna National Park: Block I	55	2003

3.6.6 Herons, egrets & bitterns – Ardeidae

Grey Heron Ardea cinerea

1% = 1,000 (*cinerea*, South Asia), 10,000 (*jouyi*, East and Southeast Asia), 15 (*jouyi*, Sumatra). This is the second most widely distributed species across its range, recorded at 1,079 sites; two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Manjira Wildlife Sanctuary	2,200	2002
India	Andhra Pradesh	Somasila Tank	1,000	2002

Eastern Great Egret Ardea modesta

1% = 1,000 (Central and South Asia), 1,000 (East and Southeast Asia). Indonesian population unknown. One of the most widely distributed species, recorded at 954 sites; eight sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	1,208	2003
China	Anhui	Anqingyanjiang NR: Caizi Hu	1,240	2004
China	Hong Kong	Deep Bay	1,421	2003
India	Orissa	Bhitarkanika Mangrove	3,277	2003
India	Orissa	Chilika Lake	2,464	2004
India	Uttar Pradesh	Sur Sarovar Bird Sanctuary	1,000	2003
Philippines	Luzon	Manila Bay: Puerto Rivas, Balanga	2,070	2004
Thailand	Buriram	Sanambin Non-Hunting Area	2,470	2004

Intermediate Egret Ardea (Mesophoyx) intermedia

1% = 1,000 (*intermedia*, South Asia), 1,000 (*intermedia*, East and Southeast Asia). East Indonesian (*plumifera*) population unknown. One of the most widely distributed species across its range, recorded at 830 sites; eight sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	7,800	2003
China	Anhui	Sheng Jin Hu	1,000	2002
India	Andhra Pradesh	Kolleru Wetland: Penumaka Lanka	3,000	2003
India	Maharashtra	Nandur Madhemeshwar Wildlife Sanctuary	1,474	2002
India	Orissa	Bhitarkanika Mangrove	3,156	2003
India	Orissa	Chilika Lake	1,818	2004
Philippines	Luzon	Manila Bay: Puerto Rivas, Balanga	1,190	2004
Thailand	Buriram	Sanambin Non-Hunting Area	2,668	2004

White-bellied Heron Ardea insignis EN

1% = 6. The species is restricted to South and Southeast Asia. Only one individual was recorded, at Nam Sam Chaung (Near Ayeyarwady), Kachin Province, Myanmar, in 2002.

Great-billed Heron Ardea sumatrana

1% = 1,000 (Southeast Asia). This species was reported at only a few sites in the Philippines, Malaysia and Indonesia. For this largely solitary species it is unlikely that any site can be expected to hold 1% of the population.

Goliath Heron Ardea goliath

1% = 1 (South Asia). The South Asian population is estimated at only 20 individuals. Sumit Sen (pers. comm., January 2007) suggest that the population may be larger – in excess of 100. The chosen habitat of the species is the mangrove forests of the Sundarbans and this area is not surveyed for the AWC. The species was reported from two sites in the states of Assam and Orissa, in India.

Country	Region	Site Name	Peak Count	Year
India	Assam	Kuarbari-Dalani	2	2003
India	Orissa	Chilika Lake	4	2004

Purple Heron Ardea purpurea

1% = 250 (*manilensis*, South Asia), 1,000 (*manilensis*, East and Southeast Asia). The species was recorded across its range; one site, Chilika Lake in India, met the 1% criterion (2,332 individuals in 2002).

Cattle Egret Ardea (Bubulcus) ibis

1% = 10,000 (*coromanda*, East and Southeast Asia), South Asia (*coromanda*) population unknown. One of the most widely distributed species across its range, recorded at 987 sites; two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Mittakodur Tank	20,000	2002
India	Orissa	Chilika Lake	21,718	2002

Striated Heron Butorides striata

1% = 250 (*chloriceps*, India), 1,000 (*javanica*, Sri Lanka to Thailand). Other populations unknown. The species was recorded across South and Southeast Asia and the south of East Asia. One site, Curtorim Lake, Goa State, India, met the 1% criterion (300 individuals in 2003).

Indian Pond-heron Ardeola grayii

1% = 10,000 (*grayii*, South Asia). Myanmar, Andaman and Nicobar Islands (*grayii*) and Maldives (*phillipsi*) – unknown. This species is restricted to South and Southeast Asia and is the most common pond-heron species, recorded at 937 sites. One site, Chilika Lake, Orissa State, India, met the 1% criterion (18,047 individuals in 2002).

Chinese Pond-heron Ardeola bacchus

1% unknown. The species is restricted to East and Southeast Asia. It was recorded at a total of 117 sites.

Javan Pond-heron Ardeola speciosa

1% = 1,000 (*continentalis*, Central Thailand and South Indochina), West and Central Indonesia and Southern Philippines (*speciosa*) unknown. The species was recorded at a small number of sites in Southeast Asia; no site met the 1% criterion.

Little Egret Egretta garzetta

1% = 1,500 (*garzetta*, South Asia), 10,000 (*garzetta*, East and Southeast Asia). Java and New Guinea (*nigripes*) –unknown. This is the most widely distributed species, recorded at 1,337 sites across its range, 11 of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Anantaram Tank	2,000	2002
India	Andhra Pradesh	Chinatumbulum Tank	1,700	2002
India	Andhra Pradesh	Kolleru Wetland: Penumaka Lanka	3,000	2003
India	Andhra Pradesh	Manjira Wildlife Sanctuary	7,000	2002
India	Andhra Pradesh	Mittakodur Tank	5,000	2002
India	Andhra Pradesh	Sangameshwara	7,000	2002
India	Gujarat	Korda Sandher	1,545	2004
India	Kerala	Kole Wetlands	3,000	2004
India	Maharashtra	Kangaon–Nangaon	2,000	2004
India	Orissa	Chilika Lake	7,550	2002
India	Uttar Pradesh	Sur Sarovar Bird Sanctuary	2,000	2003

Chinese Egret Egretta eulophotes VU

1% = 30. A coastal species restricted to East and Southeast Asia, it is recorded at 29 sites, with seven sites in Malaysia and the Philippines meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Malaysia	Sarawak	K. Samarahan – K. Sadong (Asajaya–Pendam)	419	2004
Malaysia	Sarawak	Bako – Buntal Bay and Surrounding Areas	30	2003
Philippines	Mindanao	Mampang Tugbungan Area	57	2002
Philippines	Visayas	Bantayan Island Wildness Area	76	2002
Philippines	Visayas	Calituban and Tahong Island	33	2003
Philippines	Visayas	Cordova Wetland	380	2004
Philippines	Visayas	Mahaba Island	44	2004

Country	Region	Site Name	Peak Count	Year
Other sites where th	e species was recorde	d		
Brunei		Brunei Bay Mudflats	3	2002
China	Fujian	Zhangjiang Rivermouth Mangrove	3	2003
China	Guangdong	Zhanjiang Nature Reserve	10	2003
China	Taiwan Pingtung	Lin-Pien-Hsi	1	2004
Indonesia	Jambi	Sungai Cemara Beach	2	2002
Republic of Korea	Gyeonggi	Daebu Island	4	2002
Malaysia	Johor	Parit Jawa	1	2004
Malaysia	Sabah	Kinabatangan: Kg. Mumiang/Tg. Bidadas	4	2004
Malaysia	Sabah	Kinabatangan: Terusan Kinabatangan	5	2004
Malaysia	Sarawak	Sejingkat Power Station	1	2003
Malaysia	Selangor	Kapar Power Station Ash Ponds	1	2002
Philippines	Luzon	Buguey Lagoon	1	2004
Philippines	Luzon	Novelita Salt Fishpond	2	2004
Philippines	Luzon	Tanza Coastal Wetland	17	2004
Philippines	Visayas	Brgy. Baras Campoyong Mudflat	23	2004
Philippines	Visayas	Magellan Bay Wetland	1	2002
Philippines	Visayas	Olango Island Wildlife Sanctuary	11	2004
Philippines	Visayas	Panglao Island	9	2003
Philippines	Visayas	San Jose, Hamtic, Sibalom, San Romogio	1	2002
Philippines	Visayas	Tiwi, Laste, Lanas	14	2002
Singapore		Sungei Seletar Reservoir	1	2004
Vietnam	Quang Ninh	Ha Coi Town	1	2002

Black-crowned Night-Heron Nycticorax nycticorax

1% = 1,250 (*nycticorax,* South Asia), 10,000 (*nycticorax,* East and Southeast Asia). The species was recorded across its range, with three sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Jiangsu	Shang Hu	10,000	2004
India	Orissa	Bhitarkanika Mangrove	1,255	2003
India	Orissa	Ekamrakanan Tank	1,740	2002

Japanese Night-Heron Gorsachius goisagi EN

1% = 6. The species is restricted to East and Southeast Asia. It was recorded only at Kiso River Mouth, Aichi County in Japan (7 individuals in 2002); this site also meets the 1% criterion.

3.6.7 Storks - Ciconiidae

Milky Stork Mycteria cinerea VU

1% = 50 (Indonesia), 1 (Malaysia), 1 (Cambodia). The species is restricted to Southeast Asia. It is recorded at 11 sites in Cambodia, Malaysia and Indonesia, with four sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	2	2004
Cambodia	Battambang	Prek Toal	3	2003
Indonesia	Sumatra South	Banyuasin Delta	121	2002
Malaysia	Perak	Matang Forest	8	2004
Other sites when	e the species was recorded	1		
Indonesia	Jakarta	Muara Angke	1	2002
Indonesia	Jakarta	Pulau Rambut	6	2002
Indonesia	Jambi	Berbak National Park	2	2002
Indonesia	Jambi	Sungai Cemara Beach	2	2002
Indonesia	Java East	Rawa Pulo	1	2003
Indonesia	Lampung	Rawa Pacing	1	2002
Indonesia	Sulawesi S.E.	Rawa Aopa National Park	30	2003

Painted Stork Mycteria leucocephala NT

1% = 250 (South Asia), 100 (Southeast Asia). The species is restricted to South and Southeast Asia and was recorded at 317 sites; 17 sites met the 1% criteria.

Country	Region	Site Name	Peak Count	Year
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	403	2004
Cambodia	Battambang	Prek Toal	1,505	2004
India	Andhra Pradesh	Coringa Wildlife Sanctuary	2,200	2003
India	Andhra Pradesh	Jamukula–Dinni	449	2002

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Kandukuru	252	2003
India	Andhra Pradesh	Pulicat Lake Bird Sanctuary	1,706	2003
India	Andhra Pradesh	Telineela Puram	454	2002
India	Andhra Pradesh	Uppalapadu Water Tank	1,045	2004
India	Andhra Pradesh	Velamavari Palwem	350	2002
India	Gujarat	Jamnagar District: Dwaraka Taluka wetlands	378	2003
India	Gujarat	Nani Kakrad	350	2004
India	Gujarat	New Port Saltpans, Bhavnagar	250	2002
India	Maharashtra	Kangaon–Nangaon	270	2004
India	Maharashtra	Pedgaon (Bhima River)	540	2004
India	Maharashtra	Shimpore – Khed	1,400	2004
India	Orissa	Hirakud Reservoir	1,068	2002
India	Tamil Nadu	Karavetty Tank	310	2003

Asian Openbill Anastomus oscitans

1% = 3,000. The species is restricted to South and Southeast Asia. It is the most abundant stork species in Asia, recorded at 508 sites, with six sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Coringa Wildlife Sanctuary	6,800	2003
India	Andhra Pradesh	Godavari River	5,000	2002
India	Andhra Pradesh	Kondakarla Lake	5,000	2002
India	Andhra Pradesh	Nellapattu Pelican Sanctuary	6,000	2002
India	Orissa	Chilika Lake	32,750	2002
Thailand	Nakhon Sawan	Bung Boraphet	52,613	2004

Black Stork Ciconia nigra

1% = 100 (South Asia and Myanmar), 5 (East and Southeast Asia). Ten sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Bo Hu	15	2004
China	Anhui	Anqingyanjiang NR: Qili He	18	2004
China	Anhui	Sheng Jin Hu	17	2004
China	Hubei	Changjiangudao Baijitun NR	6	2004
China	Hubei	Long Gan Hu	23	2002
China	Hubei	Tian Er Zhou Milu NR	6	2004
China	Hunan	Kongjia Hu	12	2004
China	Hunan	West Dongting Lake NR	10	2003
China	Jiangxi	Poyang Lake	29	2004
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	233	2002

Woolly-necked Stork Ciconia episcopus

1% = 250 (*episcopus*, India to Indochina and Philippines), 100 (*neglecta*, Indonesia). The species does not normally congregate in large flocks, therefore no site met the 1% criterion.

Storm's Stork Ciconia stormi EN

1% = 4. The species is restricted to to Brunei, Indonesia and Malaysia. It was recorded at only four sites in Indonesia and Malaysia with three sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Indonesia	Jambi	Berbak National Park	5	2002
Malaysia	Sabah	Kinabatangan: Lower Floodplain	8	2002
Malaysia	Sabah	Kinabatangan: Terusan Kinabatangan	7	2004
Other sites whe	re the species was rec	orded		
Malaysia	Sabah	Kinabatangan: Kg Mumiang/Tg Bidadas	2	2004

Eurasian White Stork Ciconia ciconia

1% = 45 (*asiatica*, South and Central Asia). The species was recorded at a small number of sites in India and Pakistan. One site, Bhavnagar New Port Saltpans, Gujarat State, India, met the 1% criterion (56 individuals in 2002).

Oriental (White) Stork Ciconia boyciana EN

1% = 30. The species is restricted to East Asia. It was recorded at 18 sites, four of which met the 1% criterion. The majority of the birds were reported at Poyang Lake in China.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Caizi Hu	142	2004
China	Hubei	Chen Hu	500	2002
China	Hunan	East Dongting Lake NR	66	2003
China	Jiangxi	Poyang Lake	2,221	2004
Other sites where th	e species was recorde	d		
China	Anhui	Anqingyanjiang NR: Huang Hu	6	2004
China	Anhui	Anqingyanjiang NR: Wuchang Hu	14	2004
China	Hunan	Heng Ling Hu – He Ye Hu	4	2003
China	Hunan	South Dongting Lake NR	1	2004
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	20	2004
China	Liaoning	Shuangtai Hekou NR	6	2004
China	Hong Kong	Deep Bay	1	2004
China	Taiwan Chinmen	Chin-Men Island	1	2002
China	Taiwan Ilan	Chu-An	1	2003
Republic of Korea	Chungnam	Bunam Reservoir	5	2004
Republic of Korea	Chungnam	Ganwol Reservoir	6	2002
Republic of Korea	Gyeongnam	Sajipo Marsh	1	2004
Republic of Korea	Jeonnam	Geumho Reservoir	3	2004
Republic of Korea	Jeonnam	Yungam Reservoir	1	2003

Black-necked Stork Ephippiorhynchus asiaticus NT

1% = 10 (*asiaticus*, South and Southeast Asia). The species was recorded at a small number of sites in its range, with three sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Maharashtra	Pipriya Lake, Pench Tiger Project	20	2003
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	15	2002
Pakistan	Punjab	Head Qadirabad	34	2003

Lesser Adjutant Leptoptilos javanicus VU

1% = 50. The species is restricted to South and Southeast Asia. It was recorded at 96 sites, with two sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Battambang	Prek Toal	197	2004
Malaysia	Perak	Matang Forest and Northern Kuala Gula	57	2003
Other sites where	the species was recorde	ed		
Bangladesh	Barisal	Dighai Char	1	2003
Bangladesh	Barisal	Kukri-Mukri Char	1	2003
Bangladesh	Khulna	Sundarbans: Kachikhali	3	2002
Bangladesh	Khulna	Sundarbans: Katka	11	2002
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	6	2004
Cambodia	Kampong Thom	Chinit River	4	2004
India	Assam	Bauwwa Beel	2	2004
India	Assam	Bordoibam Bilmukh Bird Sanctuary	17	2003
India	Assam	Bordoloni	17	2003
India	Assam	Chenamari Beel	23	2003
India	Assam	Deepor Beel	34	2004
India	Assam	Dhamar	2	2004
India	Assam	Dhir Beel	3	2003
India	Assam	Jengdia Beel	3	2004
India	Assam	Kamranga Beel	4	2002
India	Assam	Kani Beel	5	2004
India	Assam	Kaziranga National Park	10	2004
India	Assam	Khamranga Beel	2	2003
India	Assam	Kuarbari-Dalani	33	2003
India	Assam	Kokilamukh	18	2004
India	Assam	Misamari Beel	33	2003
India	Assam	Nameri Wildlife Sanctuary	1	2004
India	Assam	Panidihing and Fokolai	4	2003
India	Assam	Sipi Beel	2	2004
India	Assam	Urpod Beel	2	2004
India	Bihar	Vikramshila Ganga Dolphin Sanctuary	1	2004
India	Goa	Carambolim Tank	1	2004
India	Goa	Ciba-Geigy-Corlim	8	2003
India	Goa	Curtorim Mangroves	2	2003
India	Goa	Mandovi Estuary	1	2003
India	Orissa	Bhitarkanika Mangrove	8	2003
India	Orissa	Harabhangi	10	2002
India	Orissa	Hirakud Reservoir	2	2002

Country	Region	Site Name	Peak Count	Year
India	Orissa	Kuspangi Pato	2	2003
India	Orissa	Ongaito Tank	3	2002
India	Orissa	Raghunath Sagar	2	2003
India	Orissa	Sundar Dam	4	2003
India	Uttar Pradesh	Baadi Taal	3	2004
India	Uttar Pradesh	Chaltuwa Wetland	4	2003
India	Uttar Pradesh	Sur Sarovar Bird Sanctuary	4	2003
India	Uttarakhand	Nanakmata Reservoir	2	2002
India	West Bengal	Baghar Beel	1	2003
India	West Bengal	Bara Sagar Dighi	5	2003
India	West Bengal	Chander More	1	2003
India	West Bengal	Farakka Barrage (Ganges River)	4	2002
India	West Bengal	Fulbari	2	2004
India	West Bengal	Gajaldoba Teesta Barrage	1	2003
India	West Bengal	Mechi River	4	2002
India	West Bengal	Narar Thali Bil	1	2002
India	West Bengal	Naya Bandh Bill	4	2003
India	West Bengal	Naya Chara (Kharubhaj) Beel	3	2003
India	West Bengal	Raiganj (Kulik) Bird Sanctuary	1	2003
India	West Bengal	Rasik Bill	11	2002
India	West Bengal	Siliguri Barrage, Fulbar	2	2003
Indonesia	Jambi	Sungai Cemara Beach	10	2002
Indonesia	Java East	Rawa Pulo	29	2003
Indonesia	Lampung	Rawa Pacing	10	2003
Indonesia	Sumatra South	Banyuasin Delta	37	2002
Indonesia	Sumatra South	Tanjung Atap	3	2004
Indonesia	Sumatra West	Lunang Silaut	7	2002
Malaysia	Johor	Parit Jawa	26	2003
Malaysia	Johor	Sungai Balang	3	2004
Malaysia	Johor	Tanjung Piai	4	2003
Malaysia	Pahang	Pekan Pahang	7	2004
Malaysia	Sabah	Kinabatangan: Kg. Mumiang/Tg. Bidadas	1	2004
Malaysia	Sabah	Kinabatangan: Lower Floodplain	12	2002
Malaysia	Sabah	Kinabatangan: Terusan Kinabatangan	16	2002
Malaysia	Selangor	Kapar Power Station Ash Ponds	3	2004
Malaysia	Selangor	Kuala Selangor Nature Park	4	2002
Malaysia	Selangor	Pulau Tengah	6	2004
Myanmar	Ayeyarwady	Bobakone Swamp	2	2003
Myanmar	Ayeyarwady	Gayetgyi Island	1	2003
Myanmar	Ayeyarwady	Meinmahla Kyun Wildlife Sanctuary	6	2003
Myanmar	Kachin	Byee Lake	11	2004
Myanmar	Kachin	Indaw R: Changgwa –Kahtangyaung	7	2004
Myanmar	Kachin	Indaw R: Shwetaung–Chaungwa	11	2004
Myanmar	Kachin	Indaw – Gyi Lake	12	2003
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	10	2002
Myanmar	Kachin	Nam Sam Chaung (Near Ayeyarwady)	11	2002
Nepal	CR: Narayani	Beeshazari Tal	12	2004
Nepal	CR: Narayani	Rapti River: at Sauraha	9	2004
Nepal	CR: Narayani	Rapti River: Gatgai to Bahmara	3	2002
Nepal	CR: Narayani	CNP: Narayani River: Sigrauli to Amaltari Ghat	1	2004
Nepal	CR: Narayani	CNP: Rapti River and Dungre River	7	2004
Nepal	CR: Narayani	Reu River: Baluwai Khola Till Hathisaar	23	2004
Nepal	ER: Koshi	Koshi River Barrage Wildlife Reserve	1	2004
Sri Lanka	CP	Minipe Canal	3	2002
Sri Lanka	EP	Ruhuna East National Park	2	2003
Sri Lanka	NCP	Kaudulla Tank	2	2004
Sri Lanka	NCP	Wasgomuwa National Park	2	2004
	SABP	Suriya Wewa	2	2003
Sri Lanka				
Sri Lanka Thailand	UVAP Phang Nga	Uda Walawe National Park	<u>2</u> 10	2002
	Phang Nga	Ko Pratong Cat Tion National Bark	5	
Vietnam	Dong Nai Province	Cat-Tien National Park	3	2002

Greater Adjutant Leptoptilos dubius EN

1% = 7 (South Asia), 2 (Southeast Asia). The species is restricted to South and Southeast Asia. It was recorded at a total of 12 sites in India, Cambodia and Myanmar, with four sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Assam	Chenamari Beel	8	2003
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	2	2004
Cambodia	Battambang	Prek Toal	82	2004
Myanmar	Ayeyarwady	Meinmahla Kyun Wildlife Sanctuary	2	2003

Country	Region	Site Name	Peak Count	Year
Other sites whe	ere the species was recor	rded		
India	Assam	Deepor Beel	6	2004
India	Assam	Jengdia Beel	2	2004
India	Assam	Kaziranga National Park	2	2003
India	Assam	Kuarbari-Dalani	1	2004
India	Assam	Misamari Beel	3	2003
India	Assam	Panidihing and Fokolai	2	2003
Myanmar	Magway	Wetthigian Lake Wildlife Sanctuary	1	2003
Myanmar	Mandalay	Thitson Reservoir	1	2002

3.6.8 Ibises & spoonbills – Threskiornithidae

Black-headed Ibis Threskiornis melanocephalus NT

1% = 250 (South Asia), 100 (Southeast Asia), 1 (China). The species is restricted to South, East and Southeast Asia, with 14 sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Battambang	Prek Toal	114	2004
Myanmar	Yangon	Letkok Kon	200	2004
India	Andhra Pradesh	Chinatumbulum Tank	630	2002
India	Andhra Pradesh	Manjira Wildlife Sanctuary	300	2002
India	Andhra Pradesh	Nellapattu Pelican Sanctuary	260	2003
India	Andhra Pradesh	Uppalapadu Water Tank	500	2002
India	Gujarat	Krushnakunj Lake	550	2004
India	Kerala	Kole Wetlands	400	2004
India	Maharashtra	Nandur Madhemeshwar Wildlife Santuary	300	2003
India	Orissa	Bhitarkanika Mangrove	450	2003
India	Orissa	Hirakud Reservoir	300	2003
Sri Lanka	CP	Minipe Canal	300	2004
Sri Lanka	NCP	Wasgomuwa National Park	550	2002
Sri Lanka	SP	Tangalla Mangrove	300	2004

Indian Black Ibis Pseudibis papillosa

1% = 100. The species is restricted to South Asia; 12 sites met the 1% criterion. The peak total count of 269 sites in South Asia across the three years recorded 7,885 birds. According to Sumit Sen (pers. comm., January 2007), the species is fairly widespread across large parts of India and is regularly seen in small flocks. Birds are often away from wetlands and are under-represented in the AWC. It is suggested, therefore, that the population estimate be increased to 10,000–25,000.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Chikkadapally	500	2002
India	Andhra Pradesh	Chinatumbulum Tank	327	2002
India	Andhra Pradesh	Coringa Wildlife Sanctuary	600	2003
India	Andhra Pradesh	Kolleru Wetland: Penumaka Lanka	200	2003
India	Andhra Pradesh	Manjira Wildlife Sanctuary	800	2002
India	Gujarat	Kabutni Dam	100	2004
India	Maharashtra	Hipparga Tank	315	2003
India	Maharashtra	Kangaon-Nangaon	590	2004
India	Maharashtra	Nandur Madhemeshwar Wildlife Santuary	300	2004
India	Maharashtra	Pedgaon (Bhima River)	240	2004
India	Maharashtra	Shimpore – Khed	200	2004
India	Orissa	Rengali	120	2002

White-shouldered Ibis Pseudibis davisoni CR

1% = 2 (Vietnam, Laos and Cambodia), 1 (Borneo). The species is restricted to Indochina and Borneo, with only one record (2 individuals) at Ang Tropeing Thmor Reservoir, Bantey Meanchey Province, Cambodia, in 2004.

Glossy Ibis Plegadis falcinellus

1% = 250 (*falcinellus*, Central, South and Southeast Asia). Eighteen sites met the 1% criterion. The peak total count of 204 sites across the three years recorded 15,529 individuals; it is suggested that the population estimate be updated to 20,000–50,000.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Chikkadapally	300	2002
India	Andhra Pradesh	Manjira Wildlife Sanctuary	250	2002
India	Gujarat	Guneli	300	2004
India	Gujarat	Heranj	450	2004
India	Gujarat	Jesola	300	2004
India	Gujarat	Lambhvel Sewage Pond	725	2004
India	Gujarat	Nagarama Village Pond	341	2003
India	Gujarat	Nani Kakrad	1,300	2004
India	Gujarat	Narda Tank	700	2003
India	Gujarat	Narmada Main Canal	500	2002
India	Gujarat	Pariej	608	2003
India	Gujarat	Munva Hadaf Dam	300	2004
India	Gujarat	Ratneshvar Tank	300	2004
India	Gujarat	Timbi Tank	1,400	2002
India	Gujarat	Whadhwana	295	2003
India	Maharashtra	Hipparga Tank	255	2003
India	Maharashtra	Nandur Madhemeshwar Wildlife Santuary	1,027	2002
Myanmar	Mandalay	Minhla – Nyaung Yan Lake	300	2002

Eurasian Spoonbill Platalea leucorodia

1% = 1,000 (*major*, Southwest and South Asia), 100 (*major*, East Asia). The South Asian population seems to be widely distributed. The East Asian population was recorded in a small number of sites, with the majority of the population reported at Poyang Lake, Jiangxi Province, China.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Caizi Hu	1,652	2003
China	Anhui	Sheng Jin Hu	973	2002
China	Hubei	Chen Hu	191	2004
China	Hubei	Wang Hu And Supo Hu	110	2004
China	Hunan	East Dongting Lake NR	440	2003
China	Jiangxi	Poyang Lake	5,949	2003
China	Jiangxi	Sai Cheng Hu	190	2003
India	Gujarat	Amipur Tank	1,450	2004

Black-faced Spoonbill Platalea minor EN

1% = 15. The species is restricted to East and Southeast Asia. The species was reported at 25 sites, with nine sites meeting the 1% criterion. Comprehensive annual count results for the species have been compiled by T. Dahmer and M. Felley (unpublished data) and Yu (2003b, 2004b).

Country	Region	Site Name	Peak Count	Year
China	Hong Kong	Deep Bay	240	2004
China	Масао	Taipa-Coloane Mudflat	50	2004
China	Taiwan Chiayi	Pu-Tai	20	2004
China	Taiwan Tainan	Szu-Tsao	155	2002
China	Taiwan Tainan	Tseng-Wen Hsi (River)	427	2002
Vietnam	Nam Dinh (Nam Ha)	Xuan Thuy Ramsar Site	65	2003
Japan	Fukuoka	East Region of Hakata Bay	18	2002
Japan	Fukuoka	Imazu	25	2004
Republic of Korea	Jeju	Seongsanpo Lake	24	2002
Other sites where the	e species was recorded			
China	Shanghai	Chongming Island	2	2004
China	Taiwan Hsinchu	Ku-Liao (Kang Nan)	1	2004
China	Taiwan Ilan	Chu-An	6	2003
China	Taiwan Ilan	Lan-Yang-Hsi (River)	3	2003
China	Taiwan Penghu	Cheng-Kung Reservoir	1	2004
China	Taiwan Penghu	Sin-Jen Reservoir	1	2003
China	Taiwan Pingtung	Lung-Luan-Tan	1	2002
China	Taiwan Tainan	Pei-Men	2	2002
China	Taiwan Taipei	Guandu (Kuan-Tu) Marsh	1	2004
Republic of Korea	Gyeongnam	Junam Reservoirs	1	2002
Republic of Korea	Jeju	Hadori	7	2004
Republic of Korea	Jeonnam	Gunnae Reclaimed Area	2	2003
Republic of Korea	Jeonnam	Hyungyungmyun, Muangun	1	2004
Thailand	Petchaburi	Pak Thale (Laem Phak Bia)	2	2004
Thailand	Petchaburi	Wat Khao Takhrao	3	2003
Vietnam	Quang Ninh Province	Ha Nam Island	4	2002

3.6.9 Flamingos – Phoenicopteridae

Greater Flamingo Phoenicopterus roseus

1% = 2,400 (South and Southwest Asia). The species is reported mainly in Gujarat State, in India, with nine sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Charakla Saltworks	3,000	2002
India	Gujarat	Great Rann of Kachchh	10,700	2004
India	Gujarat	Jamnagar District: Dwaraka Taluka wetlands	8,711	2003
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	3,692	2003
India	Gujarat	New Port Saltpans, Bhavnagar	3,646	2003
India	Orissa	Chilika Lake	6,093	2003
Pakistan	Sindh	Nur-Ri Lake	4,750	2002
Sri Lanka	NP	Mannar Causeway	4,000	2002
Sri Lanka	NP	Vankalai Triangle	5,000	2003

Lesser Flamingo Phoenicopterus minor NT

1% = 3,900 (South Asia). The species is reported mainly in Gujarat State, in India, with 11 sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Charakla Saltworks	5,000	2002
India	Gujarat	Chhari Dhandh	5,000	2002
India	Gujarat	Chhaya Creek (Sewage)	4,450	2004
India	Gujarat	Great Rann of Kachchh	20,000	2004
India	Gujarat	Hathab (Via Koliyak) – Sea Shore	6,510	2004
India	Gujarat	Jamnagar District: Dwaraka Taluka wetlands	14,415	2003
India	Gujarat	Khirjog	7,000	2004
India	Gujarat	Kumbharwada Sewage Pond	6,500	2003
India	Gujarat	Mahi River Estuary: Sarod 'J' Point	20,000	2004
India	Gujarat	New Port Saltpans, Bhavnagar	5,570	2003
India	Maharashtra	Sewree Jetty	15,000	2003

3.6.10 Swans, geese & ducks – Anatidae

Fulvous Whistling Duck Dendrocygna bicolor

1% = 500 (South Asia and Myanmar). Eleven sites met the 1% criterion: Tangua Haor, Bangladesh, alone recorded 31,000 individuals in 2003. The peak count total of 54 sites across the three years recorded 51,908 individuals; the current population estimate of 50,000 may need updating to 75,000. Balachandran and Sathiyaselvam (submitted) recorded 14,500 individuals at Chilika Lake in January 2003, which further supports a population update for this species.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Chatidhara Beel	2,250	2004
Bangladesh	Sylhet	Tangua Haor Complex	31,300	2003
India	Jharkhand	Roka Lake	500	2003
India	Manipur	Ithai Wapokpi – Nongma Ikhong	1,250	2004
India	Orissa	Chilika Lake	1,911	2004
India	Orissa	Harabhangi	1,140	2002
India	Orissa	Hirakud Reservoir	2,661	2003
India	Orissa	Kamarkhunti Dam	500	2002
India	Orissa	Mukutmonipur	2,000	2002
India	West Bengal	Farakka Barrage (Ganges River)	5,000	2002
India	West Bengal	Satbeki Bill	552	2003

Wandering Whistling Duck Dendrocygna arcuata

1% = 10,000 (*arcuata*, East Indonesia and South Philippines). It was recorded at a total of 18 sites, mainly in the Philippines, with no site meeting the 1% criterion.

Lesser Whistling Duck Dendrocygna javanica

1% = 10,000. The species is restricted to South, East and Southeast Asia. This is the most common whistling duck species. A total of nine sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	15,000	2002
India	Kerala	Kole Wetlands	10,000	2003
India	Orissa	Chilika Lake	10,400	2002
India	Orissa	Harabhangi	20,330	2002
India	Orissa	Mukutmonipur	20,000	2002
India	Orissa	Pampalo	21,800	2003
India	Orissa	Rengali	11,920	2002
Thailand	Buriram	Huai Talat Non-Hunting Area	14,009	2003
Thailand	Nakhon Sawan	Bung Boraphet	86,204	2004

Whooper Swan Cygnus cygnus

1% = 600 (East Asia). The species was recorded mainly in Republic of Korea and Japan, with five sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Japan	Aomori	Ogawara Lake	699	2004
Japan	Hokkaido	Kushiro: Akkeshi Lake	4,300	2002
Republic of Korea	Busan	Nakdong Estuary	1,635	2004
Republic of Korea	Gyeongnam	Dongpan Reservoir	1,034	2003
Republic of Korea	Jeonnam	Gangjin Bay	630	2004

Tundra Swan (Whistling Swan) Cygnus columbianus

1% = 920 (*jankowskii*, East Asia). The major non-breeding population and all seven sites meeting the 1% criterion were in China. The total count of this species in 2004, at 95,535, exceeded the current population estimate of 92,000. It is suggested that the current population estimate be increased to 100,000.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Baidang Hu	4,400	2004
China	Anhui	Anqingyanjiang NR: Fengsha Hu	987	2004
China	Anhui	Anqingyanjiang NR: Wuchang Hu	3,980	2004
China	Anhui	Sheng Jin Hu	4,333	2004
China	Hubei	Wang Hu and Supo Hu	2,516	2004
China	Jiangxi	Poyang Lake	33,689	2004
China	Jiangxi	Sai Cheng Hu	7,113	2003

Swan Goose Anser cygnoides EN

1% = 800. The species is restricted to East Asia; it was reported at a total of 22 sites in China and Republic of Korea, with six sites in China meeting the 1% criterion. The majority of the population was recorded on the Lower Yangtze floodplain in China. The total count for the species in 2004, of 98,116 individuals, may suggest that the current population estimate could be updated to 80,000–100,000. Although the high total count may have been caused by double counting in Poyang Lake and Anqingyanjiang NR, as the counts were conducted at different times (see section 2.6.2), the count at Poyang Lake alone (66,009 in 2004) exceeded the current population estimate.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Caizi Hu	6,947	2004
China	Anhui	Anqingyanjiang NR: Fengsha Hu	10,950	2004
China	Anhui	Anqingyanjiang NR: Wuchang Hu	4,500	2003
China	Anhui	Sheng Jin Hu NR	11,483	2004
China	Jiangxi	Poyang Lake	66,009	2004
China	Jiangxi	Sai Cheng Hu	6,180	2003
Other sites where the	ne species was record	ded		
China	Anhui	Anqingyanjiang NR: Baidang Hu	156	2004
China	Anhui	Anqingyanjiang NR: Daguan Hu	41	2004
China	Anhui	Anqingyanjiang NR: Long Gan Hu	120	2004
China	Hubei	Chen Hu NR	87	2004
China	Hubei	Wang Hu and Supo Hu	52	2004
China	Hunan	East Dongting Lake NR	51	2004
China	Hunan	Helong Hu–Baini Hu	76	2004
China	Hunan	West Dongting Lake NR	45	2004
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	563	2004
China	Shanghai	Chongming Island	102	2003
Republic of Korea	Busan	Nakdong Estuary	9	2003
Republic of Korea	Chungnam	Geum River Estuary	7	2004
Republic of Korea	Chungnam	Geum River Reservoir	11	2002
Republic of Korea	Gyeonggi	Siwha Reservoir	3	2004
Republic of Korea	Gyeongnam	Junam Reservoirs	7	2003
Republic of Korea	Jeonnam	Yungam Reservoir	25	2004

Bean Goose Anser fabalis

1% = 800 (*middendorffi*, East Asia), 700 (*serrirostris*, East Asia). The figure of 800 was used as the 1% criterion for the identification of internationally important sites because of the difficulty in separating these two subspecies whose non-breeding grounds almost completely overlap. A total of 28 sites in China and Republic of Korea met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Bo Hu	2,100	2004
China	Anhui	Anqingyanjiang NR: Daguan Hu	1,669	2004
China	Anhui	Anqingyanjiang NR: Huang Hu	3,087	2004
China	Anhui	Anqingyanjiang NR: Wuchang Hu	26,175	2004
China	Anhui	Sheng Jin Hu NR	12,300	2002
China	Hubei	Chen Hu NR	9,892	2004
China	Hubei	Wang Hu and Supo Hu	962	2004
China	Hunan	East Dongting Lake NR	25,825	2004
China	Hunan	Heng Ling Hu–He Ye Hu	1,250	2003
China	Hunan	South Dongting Lake NR	869	2004
China	Hunan	West Dongting Lake NR	950	2003
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	1,110	2004
China	Jiangxi	Poyang Lake	5,200	2004
Republic of Korea	Busan	Nakdong Estuary	1,550	2004
Republic of Korea	Busan	Lower Nakdong River	1,506	2003
Republic of Korea	Chungnam	Bunam Reservoir	7,392	2004
Republic of Korea	Chungnam	Daeho Lake	2,376	2003
Republic of Korea	Chungnam	Ganwol Reservoir	11,200	2004
Republic of Korea	Chungnam	Geum River Reservoir	1,565	2003
Republic of Korea	Gyeonggi	Asan Lake	846	2004
Republic of Korea	Gyeonggi	Han River Estuary	4,315	2002
Republic of Korea	Gyeongnam	Dongpan Reservoir	951	2003
Republic of Korea	Gyeongnam	Upo Marsh	3,500	2002
Republic of Korea	Jeonbuk	Dongjin River Estuary	1,721	2004
Republic of Korea	Jeonbuk	Mangyung River Estuary	920	2002
Republic of Korea	Jeonnam	Gunnae Reclaimed Area	890	2003
Republic of Korea	Jeonnam	Youngsan Reservoir (Estuary)	800	2003
Republic of Korea	Jeonnam	Yungam Reservoir	1,086	2003

Greater White-fronted Goose Anser albifrons

1% = 1,800 (*frontalis*, East Asia). Twenty sites met the 1% criterion. At 182,918 and 172,968, the total counts for the species in 2003 and 2004 respectively were higher than the current estimate of 150,000–200,000 individuals. Based on a recent review of the long-term changes in their breeding populations in north eastern Russia by Syroechkovskiy (2006), it appears that populations of geese migrating to Japan and Korea have increased accompanied by a decline in the population migrating to China. This new information may assist in redefining populations and their estimates in East Asia.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Sheng Jin Hu	4,218	2002
China	Hunan	East Dongting Lake NR	12,575	2004
China	Jiangxi	Poyang Lake	48,360	2003
Japan	Shimane	Shinji Lake	2,950	2004
Republic of Korea	Chungnam	Bunam Reservoir	2,499	2004
Republic of Korea	Chungnam	Daeho Lake	9,805	2003
Republic of Korea	Chungnam	Ganwol Reservoir	3,800	2004
Republic of Korea	Chungnam	Geum River Reservoir	6,965	2003
Republic of Korea	Chungnam	Sapkyo Lake	3,471	2004
Republic of Korea	Chungnam	Sekmun Reclaimed Area	2,980	2004
Republic of Korea	Gangwon	Cheolwon Basin	8,656	2004
Republic of Korea	Gyeongbuk	Haepyong, Gumi City	3,972	2002
Republic of Korea	Gyeonggi	Han River Estuary	3,800	2004
Republic of Korea	Gyeonggi	Imjin River Estuary	9,073	2002
Republic of Korea	Incheon	Gangwha Island: South Coast Mudflats	2,796	2004
Republic of Korea	Jeonbuk	Dongjin River Estuary	3,037	2002
Republic of Korea	Jeonbuk	Mangyung River Estuary	5,083	2004
Republic of Korea	Jeonnam	Gocheonam Reservoir	2,488	2004
Republic of Korea	Jeonnam	Youngsan Reservoir (Estuary)	2,114	2004
Republic of Korea	Jeonnam	Yungam Reservoir	4,746	2003

Lesser White-fronted Goose Anser erythropus VU

1% = 200 (East Asia). The whole eastern population appears to be centred on East Dongting Lake, Hunan Province, China, which is the only site meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Hunan	East Dongting Lake NR	16,923	2004
Other sites where the	ne species was record	ded		
China	Hunan	Heng Ling Hu–He Ye Hu	1	2003
China	Hunan	West Dongting Lake NR	5	2004
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	10	2004
China	Jiangxi	Poyang Lake	9	2004
China	Taiwan Ilan	Lan-Yang-Hsi (River)	1	2004
Japan	Shimane	Shinji Lake	4	2004
Republic of Korea	Gyeongnam	Junam Reservoirs	2	2004

Greylag Goose Anser anser

1% = 250 (*rubrirostris*, South Asia), 750 (*rubrirostris*, East and Southeast Asia). Seventeen sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	2,892	2004
India	Assam	Chenamari Beel	600	2003
India	Assam	Misamari Beel	980	2003
India	Bihar	Vikramshila Ganga Dolphin Sanctuary	400	2004
India	Delhi/U.P	Yamuna River: Okhla Barrage Bird Sanctuary	300	2003
India	Gujarat	Lambhvel Sewage Pond	443	2003
India	Gujarat	Naika Dam	500	2002
India	Gujarat	Narda Tank	611	2003
India	Gujarat	Whadhwana	1,270	2003
India	Haryana	Bhindavas Lake Bird Sanctuary	680	2003
India	Rajasthan	Vardha Dam	250	2004
India	Uttar Pradesh	National Chambal Sanctuary	420	2002
India	Uttar Pradesh	Pili Dam	400	2002
India	Uttar Pradesh	Sur Sarovar Bird Sanctuary	250	2003
India	West Bengal	Ballavpur Wildlife Sanctuary	871	2003
India	West Bengal	Tilpara Barrage	495	2003
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	2,160	2003

Bar-headed Goose Anser indicus

1% = 560. The species is restricted to South, East and Southeast Asia. Eighteen sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Guizhou	Caohai Reserve	1,427	2004
China	Yunnan	Huize County	1,692	2003
China	Yunnan	Lashihai Lake	1,071	2003
China	Yunnan	Napahai Reserve	1,509	2004
India	Andhra Pradesh	Manjira Wildlife Sanctuary	1,050	2002
India	Andhra Pradesh	Sangameshwara	700	2002
India	Assam	Misamari Beel	1,000	2003
India	Haryana	Basai Wetlands	1,100	2003
India	Himachal Pradesh	Pong Dam Bird Sanctuary	16,311	2004
India	Karnataka	Hadinarli	560	2003
India	Maharashtra	Chargaon Lake	795	2003
India	Orissa	Bhitarkanika Mangrove	695	2003
India	Orissa	Chilika Lake	980	2003
India	Tamil Nadu	Karavetty Tank	2,020	2003
India	Uttar Pradesh	National Chambal Sanctuary	793	2002
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	3,443	2003
Pakistan	Punjab	Head Marala Barrage	2,520	2002
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	1,155	2003

Lesser Snow Goose Chen (Anser) caerulescens

1% = 1 (*caerulescens* 'Lesser', East Asia). The species was reported at five sites in Republic of Korea. Although small numbers of Lesser Snow Goose were also reported from Japan during this period, no site locations were provided.

Country	Region	Site Name	Peak Count	Year
Republic of Korea	Chungnam	Ganwol Reservoir	1	2004
Republic of Korea	Gangwon	Cheolwon Basin	1	2004
Republic of Korea	Gyeonggi	Han River Estuary	3	2003
Republic of Korea	Gyeonggi	Imjin River Estuary	1	2003
Republic of Korea	Gyeongnam	Dongpan Reservoir	1	2003

Brent Goose Branta bernicla

1% = 50 (*nigricans*, East Asia). Only one site, namely Gwangyang and Galsa Bay, Jeonnan Province, Republic of Korea met the 1% criterion. The main January location for the species on the Shandong coast, China was not adequately covered during 2002–2004. In 1992–1993, sites covered by the AWC such as the Changshan Islands reported about 1,200 birds (Miyabayashi and Mundkur 1999).

Ruddy Shelduck Tadorna ferruginea

1% = 500 (South Asia), 750 (East and Southeast Asia). A total of 31 sites met the 1% criterion. The total peak count of 345 sites in South Asia across the three years recorded 62,606 individuals; it is suggested that the population estimate be updated to 50,000–100,000.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Banger Char	3,000	2004
Bangladesh	Barisal	Doba Char	2,150	2003
Bangladesh	Barisal	Gazipur Char	6,000	2002
Bangladesh	Barisal	Urir Char	1,200	2003
Bangladesh	Rajshahi	Sirajganj (Jamuna River)	540	2002
Bangladesh	Sylhet	Pana Beel	1,350	2003
China	Guizhou	Caohai Reserve	9,750	2004
China	Jiangxi	Poyang Lake	917	2003
China	Yunnan	Huize County	2,731	2003
China	Yunnan	Lashihai Lake	1,127	2004
China	Yunnan	Napahai Reserve	1,516	2004
China	Yunnan	Xundian County	840	2004
India	Andhra Pradesh	Godavari River	1,745	2002
India	Assam	Chenamari Beel	540	2003
India	Assam	Kokilamukh	909	2004
India	Assam	Misamari Beel	1,300	2003
India	Gujarat	Machhan Nala Dam	1,000	2002
India	Himachal Pradesh	Pong Dam Bird Sanctuary	580	2002
India	Karnataka	Krishna River – Karnataka	700	2003
India	Orissa	Chilika Lake	9,838	2002
India	Orissa	Harabhangi	5,300	2002
India	Orissa	Hirakud Reservoir	2,420	2002
India	Uttar Pradesh	Katernia Ghat Sanctuary	500	2004
India	Uttar Pradesh	National Chambal Sanctuary	1,459	2002
India	Uttarakhand	Asan Barrage	1,600	2004
India	Uttarakhand	Dehra Dun	504	2003
Republic of Korea	Gyeonggi	Siwha Reservoir	912	2002
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	3,884	2004
Myanmar	Sagaing	Chindwin R: Kalewa–Hkamti and to the North	2,974	2004
Nepal	Cr: Narayani	CNP: Narayani River: Sigrauli to Amaltari Ghat	600	2004
Nepal	Cr: Narayani	CNP: Rapti River: Gaight/Kasara to Narayani Confl	545	2004

Common Shelduck Tadorna tadorna

1% = 1,000 (South Asia), 1,300 (East Asia). The majority of the population was reported in Bangladesh and Republic of Korea, with 11 sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Kalkiny Char	4,000	2002
Bangladesh	Barisal	Shahjalal Char	10,000	2004
Bangladesh	Barisal	Urir Char	5,500	2003
Republic of Korea	Busan	Nakdong Estuary	3,263	2004
Republic of Korea	Chungnam	Janghang Coast	2,151	2004
Republic of Korea	Chungnam	Yubu Island	3,272	2002
Republic of Korea	Gyeongnam	Sacheon Bay	1,467	2002
Republic of Korea	Jeonnam	Gwangyang and Galsa Bay	1,734	2004
Republic of Korea	Jeonnam	Hyungyungmyun, Muangun	10,014	2004
Republic of Korea	Jeonnam	Suncheon Bay	2,839	2003
Republic of Korea	Jeonnam	Yeuja Bay	6,195	2003

White-winged Duck Cairina scutulata EN

1% = 5 (India to Myanmar), 2 (Thailand, Cambodia, Laos and Vietnam), 2 (Sumatra). The species is restricted to South and Southeast Asia. It was recorded at only four sites, with three sites in Indonesia and Myanmar meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Indonesia	Jambi	Berbak National Park	8	2002
Myanmar	Sagaing	Nan Ezu (Eisu) Stream (Htamanthi Wildlife Sanc)	5	2004
Myanmar	Sagaing	Nga Yant In Lake	6	2003
Other sites when	e the species was reco	rded		
India	Assam	Tinikunia Pukhuri	2	2004

Comb Duck Sarkidiornis melanotos

1% = 250 (*melanotos*, South and Southeast Asia). The species was reported mainly in India. One site in Cambodia and five sites in India met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir (Sarus Crane Reserve)	498	2004
India	Andhra Pradesh	Manjira Wildlife Sanctuary	500	2002
India	Gujarat	Deo Dam	918	2004
India	Gujarat	Jesola	500	2004
India	Gujarat	Narmada Main Canal	250	2002
India	Gujarat	Pariej	301	2004

Cotton Pygmy Goose Nettapus coromandelianus

1% = 1,000 (*coromandelianus*, South Asia). East and Southeast Asia (*coromandelianus*) unknown. The species is widely distributed within its range, with 10 sites meeting the 1% criterion. A large concentration of birds was reported at Chilika Lake in India.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Kondakarla Lake	3,000	2002
India	Andhra Pradesh	Manjira Wildlife Sanctuary	7,000	2002
India	Goa	Macasana Tanks	3,030	2002
India	Karnataka	Kallur Tank	4,000	2004
India	Karnataka	Kunthur Tank	1,000	2004
India	Orissa	Chilika Lake	30,534	2002
India	Orissa	Denua	2,088	2003
India	Orissa	Hirakud Reservoir	1,230	2002
Thailand	Nakhon Sawan	Bung Boraphet	2,062	2004
Thailand	Pattalung	Thale Noi Non-Hunting Area	6,437	2004

Mandarin Duck Aix galericulata

1% = 200 (Mainland China), 50 (Republic of Korea), 400 (Japan), 4 (Taiwan). The species is restricted to East Asia, with most records reported from Republic of Korea. Thirteen sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Jiangxi	Poyang Lake	718	2004
Republic of Korea	Chungbuk	Chungju Reservoir	240	2003
Republic of Korea	Chungnam	Daechung Reservoir	148	2004
Republic of Korea	Chungnam	Nonsan Reservoir	110	2002
Republic of Korea	Chungnam	Tapjeong Reservoir	115	2003
Republic of Korea	Gyeonggi	Namhan River	341	2003
Republic of Korea	Gyeonggi	Paldang Dam	58	2003
Republic of Korea	Gyeongnam	Angae Reservoir	293	2003
Republic of Korea	Gyeongnam	Hoiya Reservoir	80	2004
Republic of Korea	Gyeongnam	Hyongsan River	125	2002
Republic of Korea	Gyeongnam	Jinyang Reservoir	160	2003
Republic of Korea	Jeju	Hamduck–Hadori Coast	420	2002
Republic of Korea	Jeju	Seoguipo–Anduck Coast	850	2002

Eurasian Wigeon Anas penelope

1% = 2,500 (South Asia) and 7,500 (East Asia). A total of 17 sites met the 1% criterion, mainly in South Asia; Chilika Lake alone recorded 100,793 individuals. The peak total count of 308 sites in South Asia across the three years recorded 268,658 individuals. It is suggested that the South Asian population estimate be updated to 300,000–500,000 individuals.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Gazipur Char	3,000	2004
Bangladesh	Barisal	Tagrar Char	50,000	2004
Bangladesh	Chittagong	Muhuri Dam	3,500	2003
India	Gujarat	Kanewal	4,700	2004
India	Gujarat	Pipalava Bandharo	5,500	2003
India	Himachal Pradesh	Pong Dam Bird Sanctuary	5,441	2003

Country	Region	Site Name	Peak Count	Year
India	Orissa	Chilika Lake	100,793	2002
India	Tamil Nadu	Tenneri Tanks	3,000	2002
Japan	Ibaraki	Kasumigaura Nangan Sakuragawa-Mura	8,924	2003
Japan	Ishikawa	Kahokugata	7,806	2003
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	6,300	2004
Pakistan	Sindh	Keenjhar Lake	2,650	2002
Pakistan	Sindh	Lungh Lake	2,600	2002
Pakistan	Sindh	Nur-Ri Lake	2,500	2002
Pakistan	Sindh	Phoosna	2,570	2003
Sri Lanka	NP	Kayts Island and Mandaitivu	7,400	2004
Sri Lanka	NP	Vankalai Triangle	5,000	2004

Falcated Duck Anas falcata NT

1% = 350. The species is restricted to East Asia. Ten sites met the 1% criterion. In 2004 almost half the total population of this species was reported from the Dongting Lakes (including East, West and South Dongting) in China.

Country	Region	Site Name	Peak Count	Year
China	Hunan	East Dongting Lake NR	2,013	2004
China	Hunan	South Dongting Lake NR	12,920	2004
China	Hunan	Taibai Hu	1,200	2004
China	Hunan	West Dongting Lake NR	1,730	2004
China	Jiangxi	Poyang Lake	3,100	2003
Japan	Ibaragi	Kitaura	441	2004
Japan	Ibaraki	Kasumigaura Nangan Sakuragawa-Mura	388	2004
Republic of Korea	Busan	Nakdong Estuary	975	2003
Republic of Korea	Gyeonggi	Siwha Reservoir	401	2004
Republic of Korea	Gyeongnam	Dongpan Reservoir	535	2002

Gadwall Anas strepera

1% = 3,000 (*strepera*, South Asia), 7,500 (*strepera*, East Asia). Ten sites met the 1% criterion. Chilika Lake alone recorded 153,128 individuals, which is more than 50% of the South Asian population. The peak total count of 340 sites in South Asia across the three years was 375,296 individuals. The South Asian population estimate should be raised to 500,000. Balachandran and Sathiyaselvam (submitted) estimated the population of Gadwall at Chilika as 160,000 individuals, which further supports a population update for this species.

The East Asian population estimate, at 500,000–1,000,000, is too high. Barter *et al.* (2004 and 2005) recorded only 271 and 273 individuals in surveys of the Lower Yangtze River Floodplain in 2004 and 2005 respectively. It is believed that the current population is smaller than 500,000 individuals.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Gazipur Char	3,000	2003
Bangladesh	Barisal	Tagrar Char	15,000	2004
Bangladesh	Sylhet	Aila Beel	9,500	2003
Bangladesh	Sylhet	Tangua Haor Complex	64,560	2004
India	Gujarat	Pipalava Bandharo	4,000	2003
India	Orissa	Chilika Lake	153,128	2004
India	Orissa	Harabhangi	15,000	2002
India	Orissa	Hirakud Reservoir	11,230	2002
India	West Bengal	Farakka Barrage (Ganges River)	3,200	2003
Pakistan	Sindh	Nur-Ri Lake	8,392	2002

Baikal Teal Anas formosa VU

1% = 5,000. The species is restricted to East Asia (highly congregatory in the Republic of Korea). Five sites met the 1% criterion, and they host almost the entire population of this Vulnerable species. The population has increased considerably, from 75,000 in 1994, 105,000 in 1997, 300,000 in 2002 to 500,000 in 2006 (Rose and Scott 1994, 1997, Wetlands International 2002, 2006).

Country	Region	Site Name	Peak Count	Year
Republic of Korea	Chungnam	Geum River Reservoir	302,900	2003
Republic of Korea	Chungnam	Sapkyo Lake	10,000	2002
Republic of Korea	Jeonbuk	Dongrim Reservoir	250,000	2004
Republic of Korea	Jeonnam	Gocheonam Reservoir	83,000	2004
Republic of Korea	Jeonnam	Youngsan Reservoir (Estuary)	37,000	2004
Other sites where th	e species was reco	rded		
China	Anhui	Anqingyanjiang NR: Caizi Hu	2	2004
China	Hunan	Maoli Hu	25	2004

Country	Region	Site Name	Peak Count	Year
China	Shanghai	Donghai Nongchang – Binghai Nongchang	1	2004
China	Taiwan Penghu	Sin-Jen Reservoir	1	2002
China	Taiwan Taipei	Chun-Cheng-Chiao	1	2004
China	Taiwan Taipei	Err Chung	1	2004
China	Taiwan Taipei	Guandu Marsh	1	2002
China	Taiwan Taoyuan	Kuan Ing	1	2002
Japan	Aichi	Kiso River Mouth	26	2004
Japan	Fukuoka	East Region of Hakata Bay	187	2004
Japan	Fukuoka	Imazu	335	2004
Japan	Gifu	Nagara River	1,286	2003
Japan	Ibaragi	Kitaura	8	2004
Japan	Ishikawa	Kahokugata	2,093	2003
Japan	Ishikawa	Kamo-Ike (Katano Kamoike)	75	2004
Japan	Osaka	Yodogawa River	1	2004
Japan	Shimane	Shinji Lake	9	2004
Japan	Shimane/Tottori	Nakaumi	6	2004
Republic of Korea	Busan	Lower Nakdong River	26	2002
Republic of Korea	Chungbuk	Chungju Reservoir	8	2003
Republic of Korea	Chungnam	Bunam Reservoir	12	2004
Republic of Korea	Chungnam	Daeho Lake	8	2004
Republic of Korea	Chungnam	Ganwol Reservoir	3,500	2004
Republic of Korea	Chungnam	Geum River Estuary	2,000	2004
Republic of Korea	Chungnam	Nonsan Reservoir	25	2002
Republic of Korea	Chungnam	Seongam Reservoir	7	2004
Republic of Korea	Chungnam	Tapjeong Reservoir	1	2003
Republic of Korea	Gangwon	Gyungpo Lagoon	2	2003
Republic of Korea	Gyeongbuk	Haepyong, Gumi City	10	2003
Republic of Korea	Gyeongbuk	Yeongdeok–Pyunghae Coast	5	2002
Republic of Korea	Gyeonggi	Asan Bay	1	2004
Republic of Korea	Gyeongnam	Jinyang Reservoir	155	2004
Republic of Korea	Gyeongnam	Junam Reservoirs (Sangnam, Chunsan, Dongpan)	3,000	2002
Republic of Korea	Jeonbuk	Cheongho Reservoir	244	2003
Republic of Korea	Jeonbuk	Dongjin River Estuary	2,750	2002
Republic of Korea	Jeonbuk	Mangyung River Estuary	3,600	2004
Republic of Korea	Jeonnam	Gangjin Bay	8	2004
Republic of Korea	Jeonnam	Geumho Reservoir	5	2004
Republic of Korea	Jeonnam	Muan Reservoir	2	2004
Republic of Korea	Jeonnam	Yungam Reservoir	51	2004

Common Teal Anas crecca

1% = 4,000 (*crecca*, South Asia), 8,000 (*crecca*, East and Southeast Asia). This is one of the most widely distributed of the Anatidae species, recorded at 704 sites, with 15 sites meeting the 1% criterion. According to Sumit Sen (pers. comm., January 2007), the species is showing a declining trend in many parts of India and may require closer monitoring.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Tagrar Char	4,000	2004
China	Anhui	Anqingyanjiang NR: Wuchang Hu	10,161	2004
China	Jiangxi	Poyang Lake	8,791	2004
India	Andhra Pradesh	Manjira Wildlife Sanctuary	6,000	2002
India	Gujarat	Pipalava Bandharo	7,000	2003
India	Himachal Pradesh	Pong Dam Bird Sanctuary	6,150	2003
India	Orissa	Chilika Lake: Combined	9,380	2002
India	West Bengal	Farakka Barrage (Ganges River)	4,500	2003
India	West Bengal	Naya Bandh Bill	4,000	2003
Japan	Ibaraki	Kasumigaura Nangan Sakuragawa-Mura	10,176	2003
Japan	Ishikawa	Kahokugata	8,665	2003
Pakistan	Sindh	Drigh Lake	5,600	2003
Pakistan	Sindh	Haleji Lake	5,260	2002
Pakistan	Sindh	Lungh Lake	10,156	2003
Pakistan	Sindh	Nur-Ri Lake	6,700	2002

Mallard Anas platyrhynchos

1% = 750 (*platyrhynchos*, South Asia), 15,000 (*platyrhynchos*, East Asia). Eleven sites met the 1% criterion. The species is the second most numerous species recorded in 2002–2004, with a total count of 731,459 individuals recorded in 2003.

Country	Region	Site Name	Peak Count	Year
India	Uttarakhand	Asan Barrage	800	2003
Japan	Ibaraki	Kasumigaura Nangan Sakuragawa-Mura	33,902	2002
Japan	Ishikawa	Kahokugata	16,528	2003
Republic of Korea	Chungnam	Geum River Estuary	21,597	2002
Republic of Korea	Chungnam	Geum River Reservoir	28,252	2002
Republic of Korea	Gyeonggi	Siwha Reservoir	33,237	2004
Republic of Korea	Jeonbuk	Dongjin River Estuary	27,770	2003
Republic of Korea	Jeonbuk	Mangyung River Estuary	32,275	2002
Republic of Korea	Jeonnam	Youngsan Reservoir (Estuary)	45,500	2003
Pakistan	Punjab	Taunsa Barrage	1,800	2003
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	13,250	2003

Spot-billed Duck Anas poecilorhyncha

1% = 1,000 (*poecilorhyncha*, South Asia), 12,000 (*zonorhyncha*, East Asia), 1,000 (*hartingtoni*, Southeast Asia). This is one of the most widely distributed of the Anatidae species, with 12 sites meeting the 1% criterion. The East Asian population estimates of 800,000-1,600,000 might be too high: in surveys of the main non-breeding areas in China, Barter *et al.* recorded only 22,562 and 29,210 individuals in 2004 and 2005, respectively (Barter *et al.* 2004, 2005).

Country	Region	Site Name	Peak Count	Year
China	Jiangxi	Poyang Lake	13,657	2004
India	Andhra Pradesh	Manjira Wildlife Sanctuary	1,500	2002
India	Andhra Pradesh	Sangameshwara	3,000	2002
India	Gujarat	Dedadra Talav	1,000	2004
India	Gujarat	Tapi River at Surat Causeway	2,000	2003
India	Karnataka	Byramangala Reservoir	2,348	2004
India	Kerala	Vembanad: Thollairam Kayal	10,000	2003
India	Orissa	Chilika Lake	1,642	2002
India	Uttar Pradesh	Ashpan	1,170	2002
Myanmar	Kachin	Indaw – Gyi Lake	1,564	2002
Myanmar	Mandalay	Minhla-Nyaung Yan Lake	1,000	2002
Myanmar	Sagaing	Chindwin R: Kalewa–Hkamti and to the North	1,286	2004

Philippine Duck Anas Iuzonica VU

1% = 80. The species is endemic to the Philippines. It was recorded at 22 sites, 12 of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Philippines	Luzon	Carague Lake	308	2004
Philippines	Luzon	Magat Dam	1,060	2004
Philippines	Luzon	Malasi Lake	1,420	2004
Philippines	Luzon	Naujan Lake	400	2002
Philippines	Luzon	Paitan Lake	266	2004
Philippines	Luzon	Paoay Lake National Park	300	2004
Philippines	Luzon	Subic Bay	400	2003
Philippines	Mindanao	Agusan Marsh Wildlife Sanctuary	150	2002
Philippines	Mindanao	Lake Mainit	500	2002
Philippines	Visayas	Carigara Bay Wetlands	200	2003
Philippines	Visayas	Himamaylan, Kabankalan and Ileig Wetland	962	2002
Philippines	Visayas	Sipalay Hinoba-An Wetland	422	2004
Other sites where t	he species was reco	rded		
Philippines	Luzon	Monterey Lake	57	2004
Philippines	Luzon	Palaui Island	7	2004
Philippines	Mindanao	Bonifacio Wetland	23	2003
Philippines	Mindanao	Maputi, Banaybanay	33	2004
Philippines	Mindanao	Mukas Mangrove Wetland	2	2003
Philippines	Mindanao	Pulangi Wetland Area	54	2002
Philippines	Mindanao	Sinacaban Mangrove	3	2004
Philippines	Visayas	Brgy. Baras Campoyong Mudflat	2	2004
Philippines	Visayas	Lagbangan Lake	4	2002
Philippines	Visayas	Ormoc Intertidal Flat	16	2004

Northern Pintail Anas acuta

1% = 2,500 (East and Southeast Asia), 20,000 (for South Asia, the population estimate is given as >1,000,000 and the 1% criteria was not available). This is the most widely distributed of the Anatidae species (recorded at 722 sites), with 20 sites meeting the 1% criterion. The species was also the most numerous species recorded in the AWC 2002–2004, a total of 780,709 individuals being recorded in 2003.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Tagrar Char	30,000	2004
Bangladesh	Sylhet	Aila Beel	105,000	2003
Bangladesh	Sylhet	Hakaluki Haors	20,000	2004
Bangladesh	Sylhet	Tangua Haor Complex	50,700	2002
China	Anhui	Sheng Jin Hu	4,760	2004
China	Hong Kong	Deep Bay	4,381	2003
India	Goa	Mandovi Estuary	120,000	2002
India	Himachal Pradesh	Pong Dam Bird Sanctuary	25,575	2003
India	Orissa	Bhitarkanika Mangrove	141,190	2003
India	Orissa	Chilika Lake	259,824	2004
India	Orissa	Hirakud Reservoir	25,920	2002
India	Uttar Pradesh	National Chambal Sanctuary	24,801	2002
Japan	Fukuoka	East Region of Ariake Sea	5,712	2002
Japan	Fukuoka	Imazu	2,653	2004
Japan	Gifu	Nagara River	3,280	2002
Republic of Korea	Chungnam	Geum River Estuary	5,655	2003
Republic of Korea	Chungnam	Geum River Reservoir	5,178	2002
Republic of Korea	Gyeonggi	Siwha Reservoir	10,510	2002
Myanmar	Sagaing	Chindwin R: Kalewa–Hkamti and to the North	4,385	2004
Sri Lanka	NP	Vankalai Triangle	95,000	2003

Garganey Anas querquedula

1% = 3,500 (South Asia), 1,500 (East and Southeast Asia). Twelve sites met the 1% criterion. According to Phil Round (pers. comm. 2006), numbers have declined greatly in Thailand and may be indicative of a general decline of the population in East and Southeast Asia.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	5,510	2003
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	2,000	2002
India	Goa	Macasana Tanks	9,291	2003
India	Karnataka	Karigala Tank	8,000	2004
India	Karnataka	Krishnaraja Sagar Reservoir	4,300	2004
India	Kerala	Kattampally	7,000	2003
India	Kerala	Kole Wetlands	30,000	2003
India	Orissa	Chilika Lake	28,415	2002
India	Tamil Nadu	Karavetty Tank	15,000	2003
India	West Bengal	Farakka Barrage (Ganges River)	4,500	2002
Sri Lanka	SP	Hambantota Wetlands	8,300	2004
Thailand	Nakhon Sawan	Bung Boraphet	4,325	2004

Northern Shoveler Anas clypeata

1% = 7,500 (South Asia), 5,000 (East and Southeast Asia). Only three sites met the 1% criterion. The East Asian population estimate may need to be reviewed. Barter *et al.* recorded only 22,562 and 307 individuals in 2004 and 2005, respectively, on the Yangtze River Flood Plain (Barter *et al.* 2004, 2005). Furthermore, none of the sites identified as internationally important by Miyabayashi and Mundkur (1999) met the 1% criterion during the 2002–2004 surveys.

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Lambhvel Sewage Pond	8,700	2003
India	Orissa	Chilika Lake	158,855	2002
India	Orissa	Hirakud Reservoir	30,820	2002

Marbled Teal Marmaronetta angustirostris VU

1% = 50 (South Asia). Seven sites were recorded for this species, only one of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Pakistan	Sindh	Lungh Lake	92	2003
Other sites whe	re the species was recor	ded		
Pakistan	Baluchistan	Saiji Dam	15	2002
Pakistan	Sindh	Drigh Lake	2	2002
Pakistan	Sindh	Kathor Dhand	10	2003
Pakistan	Sindh	Manchar Lake	24	2003
Pakistan	Sindh	Pani Waro Dubho/Dhand (Deh Akro-II)	6	2003
Pakistan	Sindh	Pugri Dhand	25	2002

Red-crested Pochard Netta rufina

1% = 1,000 (South Asia). Sixteen sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	14,328	2003
India	Maharashtra	Ambazari Reservoir	1,500	2003
India	Maharashtra	Ashband	4,003	2004
India	Maharashtra	Asolamendha Tank	1,509	2003
India	Maharashtra	Irai Dam	2,322	2002
India	Maharashtra	Wadgaon	1,600	2003
India	Orissa	Chilika Lake	28,936	2003
India	Orissa	Harabhangi	2,004	2002
India	Orissa	Hirakud Reservoir	20,220	2002
India	Orissa	Rengali	3,420	2002
India	Uttar Pradesh	Baadi Taal	1,000	2004
India	Uttar Pradesh	Katernia Ghat Sanctuary	5,000	2004
India	Uttarakhand	Haripura Reservoir	2,100	2002
India	West Bengal	Baghar Beel	1,200	2003
India	West Bengal	Panchet Dam	2,082	2003
India	West Bengal	Saheb Bandh	1,080	2003

Common Pochard Aythya ferina

1% = 3,500 (South Asia), 3,000 (East Asia). Eleven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	6,350	2004
India	Gujarat	Deo Dam	4,409	2004
India	Himachal Pradesh	Pong Dam Bird Sanctuary	5,795	2002
India	Orissa	Chilika Lake	90,399	2002
Japan	Osaka	Yodogawa River	5,863	2002
Japan	Shimane/Tottori	Nakaumi	29,039	2004
Republic of Korea	Busan	Lower Nakdong River	5,912	2002
Republic of Korea	Gyeonggi	Siwha Reservoir	13,120	2004
Republic of Korea	Gyeongnam	Taehwa River	6,878	2002
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	12,680	2003
Pakistan	Sindh	Haleji Lake	3,500	2002

Baer's Pochard Aythya baeri VU

1% = 150. The species is restricted to South, East and Southeast Asia. It was recorded at 29 sites, three of which met the 1% criterion. According to Phil Round (pers. comm. 2006), numbers have declined greatly in Thailand and may be indicative of a general decline of the species.

Country	Region	Site Name	Peak Count	Year
China	Jiangxi	Poyang Lake	600	2004
India	Assam	Dhir Beel	156	2003
India	Orissa	Kalo Reservoir	200	2003
Other sites where	e the species was record	led		
Bangladesh	Rajshahi	Gaibandha North	26	2002
Bangladesh	Sylhet	Khana Muia Beel	6	2002
Bangladesh	Sylhet	Pashua Haor	24	2002
Bangladesh	Sylhet	Rowa Beel	17	2004
Bangladesh	Sylhet	Shonir Haor	2	2004
Bangladesh	Sylhet	Tangua Haor Complex	95	2002
China	Anhui	Anqingyanjiang NR: Caizi Hu	13	2004
China	Hubei	Chang Hu	11	2004
China	Hunan	East Dongting Lake NR	4	2003
China	Shandong	Yellow River Delta NR	19	2002
China	Shanghai	Baoshan Shidongkou–Liuhe	6	2004
India	Assam	Chenamari Beel	25	2003
India	Assam	Deepor Beel	10	2004
India	Assam	Misamari Beel	28	2003
India	Assam	Sivasagar Tank	15	2003
India	Manipur	Logtak Lake	8	2004
India	Orissa	Chilika Lake	30	2003
India	Orissa	Hirakud Reservoir	116	2003
India	West Bengal	Chittaranjan Bara Dam	8	2003
India	West Bengal	Gajaldoba Teesta Barrage	10	2002
India	West Bengal	Satbeki Bill	18	2003
Myanmar	Kachin	Indaw-Gyi Lake	2	2002
Myanmar	Mandalay	Irrawaddy R: Pagan – Nyaung U	2	2002
Thailand	Buriram	Sanambin Non-Hunting Area	1	2002
Thailand	Chiang Rai	Nong Bong Khai	2	2004

Ferruginous Duck Aythya nyroca NT

1% = 1,000 (South, East and Southeast Asia). Eight sites met the 1% criterion. In 2002, 90,900 individuals, almost the entire population, were recorded at Tanguar Haor in Bangladesh.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Aila Beel	3,500	2003
Bangladesh	Sylhet	Hakaluki Haors	4,400	2003
Bangladesh	Sylhet	Pashua Haor	1,780	2002
Bangladesh	Sylhet	Rowa Beel	1,070	2004
Bangladesh	Sylhet	Shonir Haor	2,750	2004
Bangladesh	Sylhet	Tangua Haor Complex	90,900	2002
India	Manipur	Logtak Lake	1,100	2004
Myanmar	Kachin	Indaw-Gyi Lake	3,158	2002

Tufted Duck Aythya fuligula

1% = 4,000 (South Asia), 2,500 (East and Southeast Asia). Fourteen sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Aila Beel	4,000	2003
India	Orissa	Chilika Lake	29,667	2003
India	Orissa	Harabhangi	10,631	2002
India	Orissa	Hirakud Reservoir	31,621	2002
India	Orissa	Rengali	6,740	2002
India	West Bengal	Farakka Barrage (Ganges River)	26,400	2003
Japan	Shimane	Shinji Lake	30,726	2002
Japan	Shimane/Tottori	Nakaumi	23,898	2004
Republic of Korea	Gyeonggi	Jungrang Stream	2,574	2003
Republic of Korea	Gyeonggi	Siwha Reservoir	2,540	2004
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	10,000	2003
Philippines	Luzon	Magat Dam	3,785	2002
Philippines	Luzon	Naujan Lake	10,100	2002
Philippines	Mindanao	Lake Mainit	5,300	2004

Greater Scaup Aythya marila

1% = 2,500 (*mariloides*, East Asia). The species was reported mainly from Japan and Republic of Korea, a total of nine sites in the two countries meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Japan	Aichi	Mouth of the Toyokawa	70,000	2002
Japan	Aichi	Shio Kawa Tideland	3,024	2002
Japan	Aomori	Ogawara Lake	3,436	2002
Japan	Fukuoka	East Region of Hakata Bay	5,129	2002
Japan	Shimane	Shinji Lake	8,995	2003
Japan	Shimane/Tottori	Nakaumi	21,601	2004
Republic of Korea	Gyeonggi	Siwha Reservoir	4,556	2003
Republic of Korea	Gyeongnam	Dangdong Bay	4,980	2003
Republic of Korea	Jeonnam	Yeuja Bay	3,960	2002

Common Goldeneye Bucephala clangula

1% = 10,000 (*clangula*, East Asia). No site met the 1% criterion. At two sites in the upper reaches of the Angara River, Irkutsk, Russia, a total of 12,400 individuals were recorded in 2004.

Smew Mergellus albellus

1% = 250 (East Asia). Three sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Bo Hu	400	2004
China	Hunan	South Dongting Lake NR	467	2004
Republic of Korea	Gyeongbuk	Andong Reservoir	554	2002

Red-breasted Merganser Mergus serrator

1% = 1,000 (East Asia). Reported mainly from Japan and Republic of Korea; no site met the 1% criterion.

Scaly-sided Merganser Mergus squamatus EN

1% = 18. The species is restricted to East Asia. It was reported at four sites, one of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Jiangxi	Poyang Lake	31	2004
Other sites where th	e species was record	led		
China	Taiwan Taipei	Kung-Liao	1	2004
Republic of Korea	Jeju	Seoguipo – Anduck Coast	1	2004
Republic of Korea	Jeonnam	Dangduri Reclaimed Area	2	2002

Goosander, Common Merganser Mergus merganser

1% = 60 (*orientalis*, South Asia), 750 (*orientalis*, East Asia). Ten sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bhutan	Thimphu	Babesa Sewerage Station	89	2002
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	1,865	2004
India	Himachal Pradesh	Pong Dam Bird Sanctuary	67	2002
Republic of Korea	Gyeonggi	Han River (Haengju Bridge – Paland Dam)	2,630	2003
Republic of Korea	Gyeonggi	Siwha Reservoir	893	2002
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	100	2004
Myanmar	Kachin	Nam Lah, Nam Yah Rivers	67	2002
Nepal	Cr: Narayani	Rapti River: Gatgai to Bahmara	82	2002
Nepal	Cr: Narayani	CNP: Narayani River: Amaltari Ghat – Tribeni Ghat	138	2004
Nepal	Cr: Narayani	CNP: Narayani River: Sigrauli – Amaltari Ghat	177	2004

White-headed Duck Oxyura leucocephala EN

1% = 1 (Pakistan). This species was recorded at only three sites, all in Pakistan.

Country	Region	Site Name	Peak Count	Year
Pakistan	Islamabad	Rawal Lake	7	2003
Pakistan	Punjab	Ucchali Wetland Complex: Jahlar Lake	5	2004
Pakistan	Punjab	Ucchali Wetland Complex: Ucchali Lake	16	2003

3.6.11 Cranes – Gruidae

Demoiselle Crane Grus virgo

1% = 1,000 (Indian subcontinent). The species was reported only from India, and was concentrated in Gujarat State. Nineteen sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Thalamudupi	3,500	2003
India	Gujarat	Amipur Tank	33,000	2004
India	Gujarat	Dholi Dhaja Dam	1,100	2002
India	Gujarat	Jafarabad Coast	18,500	2003
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	11,178	2003
India	Gujarat	Karli Dam	6,500	2004
India	Gujarat	Madhavpura Marsh	5,000	2003
India	Gujarat	Medha Creek	10,000	2004
India	Gujarat	Naika Dam	2,500	2002
India	Gujarat	Nikol Bandhara	5,000	2003
India	Gujarat	Nyari-I	2,783	2003
India	Gujarat	Par	1,650	2004
India	Gujarat	Phophal-I	2,300	2002
India	Gujarat	Pipalava Bandharo (Kaj)	27,120	2003
India	Gujarat	Sorathi Dam	1,700	2004
India	Gujarat	Sudamda Pond	1,500	2002
India	Gujarat	Victor (Bherai) Salt Pans and Coastal Area	32,000	2003
India	Gujarat	Victor Pond and Sakriya Hanuman Pond – Bherai	6,540	2003
India	Maharashtra	Hipparga Tank	5,000	2003

Siberian Crane Grus leucogeranus CR

1% = 1 (India), 30 (China). The eastern population is centred on Poyang Lake in China. The South Asian population is considered to be nearly extinct, with no birds being recorded at the traditional location of Bharatpur in India.

Country	Region	Site Name	Peak Count	Year
China	Jiangxi	Poyang Lake	3,160	2004
Other sites whe	ere the species was rep	orted		
China	Anhui	Anqingyanjiang NR: Caizi Hu	2	2004
China	Anhui	Sheng Jin Hu	1	2002

Country	Region	Site Name	Peak Count	Year
China	Hunan	East Dongting Lake NR	16	2004
China	Hunan	Kongjia Hu	6	2004
China	Hunan	South Dongting Lake NR	4	2003
China	Hunan	West Dongting Lake NR	3	2003
China	Jiangxi	Sai Cheng Hu	3	2003

Sarus Crane Grus antigone VU

1% = 90 (*antigone*, South Asia), 9 (*sharpii*, Vietnam, Cambodia and Laos), 7 (*sharpii*, Myanmar). The species was recorded at a total of 85 sites in India, Myanmar and Cambodia; three sites met the 1% criterion. Ang Tropeing Thmor Reservoir in Cambodia recorded a large concentration of this species in 2004.

Country	Region	Site Name	Peak Count	Year
Cambodia	Bantey Meanchey	Ang Tropeing Thmor Reservoir	231	2004
India	Uttar Pradesh	Sur Sarovar Bird Sanctuary	140	2003
Myanmar	Kachin	Indaw-Gyi Lake	12	2002
Other sites when	re the species was recorde			
India	Chhattishgarh	Gidhori Tank - II	3	2004
India	Gujarat	Ajwa	4	2002
India	Gujarat	Bandiabeli Talav	4	2004
India	Gujarat	Borivala Tank	3	2004
India	Gujarat	Charakla Saltworks	4	2002
India	Gujarat	Chhab Talay	2	2002
India	Gujarat	Demli Tank	2	2002
India	Gujarat	Dholi Dhaja Dam	13	2002
India	Gujarat	Gatehara Pond – Saij	4	2004
India	Gujarat	Gobarapura	2	2004
India	Gujarat	Golabresda	3	2004
India	Gujarat	Guneli	4	2004
India	Gujarat	Gutal	2	2004
India	Gujarat	Hadmatiya Dam or Dairy Dam	2	2003
India	Gujarat	Heranj	4	2004
India	Gujarat	Javala Irrigation Tank	4	2004
India	Gujarat	Kabutaridam	2	2004
India	Gujarat	Kandav Talav	2	2002
India	Gujarat	Kanewal	11	2004
India	Gujarat	Kanka Talav	2	2004
India	Gujarat	Korda Sandher	3	2002
India	Gujarat	Lambhvel Sewage Pond	2	2004
India	Gujarat	Machhan Nala Dam		2004
India	Gujarat	Malav	3	2002
India		Malav Mokar Rann	<u> </u>	2004
India	Gujarat		4 4	2004
	Gujarat	Morva Hodaj Dam		
India	Gujarat	Muvalia Tank	3	2004
India	Gujarat	Nagarala Pond	3	2004
India	Gujarat	Nagarama Village Pond	7	2004
India	Gujarat	Naika Dam	3	2002
India	Gujarat	Nani Kakrad	11	2004
India	Gujarat	Narda Tank	60	
India	Gujarat	Narmada Main Canal	4	2002
India	Gujarat	New Port Saltpans, Bhavnagar	2	2002
India	Gujarat	Orwada Irri. Tank	5	2004
India	Gujarat	Palan Lake	3	2002
India	Gujarat	Pariej	17	2004
India	Gujarat	Morva Hadaf Dam (Patangdi)	2	2004
India	Gujarat	Ratanpaa Dam	2	2002
India	Gujarat	Ratneshvar Tank	3	2004
India	Gujarat	Rudarmata Dam	2	2003
India	Gujarat	Saiyant Tank	8	2004
India	Gujarat	Shivpuri Talav	3	2004
India	Gujarat	Sipu Dam	2	2004
India	Gujarat	Sokhda Talav	6	2002
India	Gujarat	Thol Lake Bird Sanctuary	6	2003
India	Gujarat	Tikar Village Pond	2	2004
India	Gujarat	Timbi Tank	2	2002
India	Gujarat	Traj Village Pond	2	2004
India	Gujarat	Traj Village – Sala Pond	4	2004
India	Gujarat	Tranja	2	2003
India	Gujarat	Tundel	8	2004
India	Gujarat	Tuva	2	2004
India	Gujarat	Vadadala	3	2002

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Vadadhra	2	2004
India	Haryana	Sultanpur Bird Sanctuary	4	2003
India	Himachal Pradesh	Pong Dam Bird Sanctuary	8	2003
India	Madhya Pradesh	Chambal River: (National Chambal Sanctuary)	3	2003
India	Madhya Pradesh	Narna	2	2004
India	Madhya Pradesh	Sarekha – Bada Talab	4	2004
India	Madhya Pradesh	Upper Lake, Bhopal City	2	2003
India	Maharashtra	Januna Tank	4	2002
India	Maharashtra	Junona Lake	4	2003
India	Rajasthan	Abheda	1	2002
India	Rajasthan	Alniya Dam	32	2002
India	Rajasthan	Bardha Dam	6	2002
India	Rajasthan	Chandalai	2	2003
India	Rajasthan	Golyahedi Village Pond	4	2003
India	Rajasthan	KTPS Ash Pond	2	2002
India	Rajasthan	Pathik Sagar	9	2003
India	Rajasthan	Rajpura Village Pond	2	2003
India	Rajasthan	Right Main Canal	22	2004
India	Rajasthan	Ummedganj	38	2002
India	Uttar Pradesh	Ashpan	2	2002
India	Uttar Pradesh	Baadi Taal	5	2004
India	Uttar Pradesh	Katernia Ghat Sanctuary	11	2004
India	Uttar Pradesh	Nawabganj Bird Sanctuary	2	2003
India	Uttar Pradesh	Pili Dam	2	2002
India	Uttarakhand	Nanakmata Reservoir	10	2002
India	Uttarakhand	Tumeria Dam	9	2002
Myanmar	Kachin	Byee Lake	3	2004
Myanmar	Kachin	Indaw R: Shwetaung–Chaungwa	5	2004

White-naped Crane Grus vipio VU

1% = 30 (China), 35 (Republic of Korea and Japan). The species is restricted to East Asia. It was recorded at 12 sites, five of which met the 1% criterion. The majority of the population that winters in China was recorded at Poyang Lake. The count of 3,460 birds recorded at Poyang Lake in 2004 exceeded the current population estimate of 3,000.

Country	Region	Site Name	Peak Count	Year
China	Jiangxi	Poyang Lake	3,460	2004
Republic of Korea	Gangwon	Cheolwon Basin	488	2004
Republic of Korea	Gyeongbuk	Haepyong, Gumi City	37	2004
Republic of Korea	Gyeonggi	Han River Estuary	56	2004
Republic of Korea	Gyeongnam	Junam Reservoirs	53	2003
Other sites where th	e species was recor	ded		
China	Anhui	Anqingyanjiang NR: Long Gan Hu	1	2004
China	Hunan	East Dongting Lake NR	2	2004
Republic of Korea	Busan	Nakdong Estuary	2	2003
Republic of Korea	Gyeonggi	Paldang Dam	3	2002
Republic of Korea	Jeonbuk	Mangyung River Estuary	2	2002
Republic of Korea	Jeonnam	Youngsan Reservoir (Estuary)	4	2004
Republic of Korea	Jeonnam	Yungam Reservoir	1	2004

Common Crane Grus grus

1% = 700 (*lilfordi*, South Asia), 110 (*lilfordi*, China), 75 (*lilfordi*, Southwest China and North Myanmar). The species is widely recorded in South Asia, Myanmar and China, with a total of 29 sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Guizhou	Caohai NR	553	2002
China	Hunan	East Dongting Lake NR	170	2004
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	123	2004
China	Jiangxi	Poyang Lake	1,027	2004
China	Liaoning	Shuangtai Hekou NR	386	2004
China	Yunnan	Huize County	743	2003
China	Yunnan	Lashihai Lake	134	2003
India	Gujarat	Amipur Tank	3,150	2004
India	Gujarat	Great Rann of Kachchh	1,600	2004
India	Gujarat	Jamnagar District: Dhrol Taluka wetlands	1,928	2003
India	Gujarat	Jamnagar District: Dwaraka Taluka wetlands	15,500	2003
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	9,151	2003
India	Gujarat	Jamnagar District: Kalyanpur Taluka wetlands	735	2003

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Jamnagar District: Khambhalia Taluka wetlands	16,076	2003
India	Gujarat	Madhavpura Marsh	2,000	2004
India	Gujarat	Nani Kakrad	1,150	2003
India	Gujarat	Nikol Bandhara	700	2004
India	Gujarat	Phophal-I	2,100	2002
India	Gujarat	Victor (Bherai) Salt Pans and Coastal Area	2,850	2003
India	Gujarat	Victor Pond and Sakriya Hanuman Pond – Bherai	842	2003
Myanmar	Kachin	Byee Lake	129	2004
Myanmar	Kachin	Indaw R: Shwetaung – Chaungwa	275	2004
Myanmar	Kachin	Indaw – Gyi Lake	370	2004
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	1,503	2003
Myanmar	Kachin	Sahmaw	440	2004
Myanmar	Kachin	Yaimaw	1,093	2004
Myanmar	Sagaing	Chindwin R: Kalewa–Hkamti and to the North	87	2004
Myanmar	Sagaing	Maha Nandar Lake	121	2002
Myanmar	Sagaing	Yemyetkyi Inn	246	2002

Hooded Crane Grus monacha VU

1% = 15 (China), 85 (Republic of Korea and Japan). The species is restricted to East Asia. It was recorded at 11 sites, eight of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Caizi Hu	333	2004
China	Anhui	Sheng Jin Hu	294	2002
China	Hunan	East Dongting Lake NR	27	2003
China	Jiangxi	Poyang Lake	380	2002
China	Jiangxi	Sai Cheng Hu	29	2003
China	Shanghai	Chongming Island	109	2004
Japan	Yamaguchi	Yashiro	17	2002
Republic of Korea	Jeonnam	Suncheon Bay	201	2004
Other sites where th	e species was recor	ded		
Republic of Korea	Chungnam	Bunam Reservoir	14	2004
Republic of Korea	Gyeongnam	Taehwa River	1	2002
Republic of Korea	Jeonnam	Youngsan Reservoir (Estuary)	1	2004

Black-necked Crane Grus nigricollis VU

1% = 80. This high-altitude species is restricted to Southwest China and the adjacent mountaineous regions of Bhutan and India. Counts were received only from Yunnan and Guizhou Provinces, in China, during 2002–2004, with eight sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Guizhou	Caohai Reserve	779	2004
China	Yunnan	Dashanbao	1,176	2004
China	Yunnan	Huize County	593	2002
China	Yunnan	Ludian County	210	2003
China	Yunnan	Napahai Reserve	281	2002
China	Yunnan	Qiaojia County	154	2003
China	Yunnan	Xundian County	91	2004
China	Yunnan	Yongshan County	409	2003
Other sites whe	ere the species was reco	orded		
China	Yunnan	Bitahai Lake	35	2004
China	Yunnan	Lashihai Lake	10	2004
China	Yunnan	Luguhu	5	2004

Red-crowned Crane Grus japonensis EN

1% = 10 (China), 8 (Republic of Korea), 9 (Japan). The species is restricted to East Asia. It was reported at nine sites, five of which met the 1% criterion. The species was concentrated in Yancheng (China), Kushiro (Japan) and Cheolwon (Republic of Korea).

Country	Region	Site Name	Peak Count	Year
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	612	2004
China	Shandong	Yellow River Delta NR	21	2002
Japan	Hokkaido	Kushiro Marsh and Surrounding Rivers	356	2002
Republic of Korea	Gangwon	Cheolwon Basin	581	2004
Republic of Korea	Incheon	Gangwha Island: South Coast Mudflats	10	2002
Other sites where th	e species was recorde	d		
China	Taiwan Hsinchu	Ku-Liao (Kang Nan)	1	2004
China	Taiwan Taipei	Kung-Liao	1	2004
Japan	Hokkaido	Lake Furen	4	2004
Republic of Korea	Jeonbuk	Mangyung River Estuary	2	2003

3.6.12 Rails, gallinules & coots - Rallidae

Most rail species are general solitary, normally hiding in vegetation or bushes at the edge of the wetland, therefore the Rallidae have always been under-counted by the AWC. This section highlights only the globally threatened species or species with a noteworthy count.

Swinhoe's Rail Coturnicops exquisitus VU

1% = 100. The species is restricted to East Asia, with only one record, at Poyang Lake, China, in 2004.

White-breasted Waterhen Amaurornis phoenicurus

1% Unknown. The species is widely distributed in South, East and Southeast Asia. It was recorded at a total of 500 sites.

Purple Swamphen Porphyrio porphyrio

1% Unknown. The species is widely distributed in South and Southeast Asia. It was recorded at a total of 392 sites.

Common Moorhen Gallinula chloropus

1% Unknown. The species is widely distributed in South, East and Southeast Asia. It was recorded at a total of 568 sites.

Common Coot Fulica atra

1% = 15,000 (*atra*, South Asia), East and Southeast Asia (*atra*) unknown. The species is the only congregatory member of the Rallidae family and was recorded at a total of 735 sites, eight of which met the 1% criterion. The peak count total of 117 sites in East Asia across the three years recorded only 26,542 individuals. On this basis, it is suggested that a population estimate of 100,000–500,000 might be appropriate for East and Southeast Asia.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	37,150	2003
India	Gujarat	Kanewal	22,917	2004
India	Gujarat	Pariej	30,800	2003
India	Orissa	Chilika Lake	96,687	2002
India	Orissa	Hirakud Reservoir	18,230	2002
Pakistan	Punjab/NWFP	Chashma Barrage Reservoir	35,000	2004
Pakistan	Sindh	Keenjhar Lake	15,500	2002
Pakistan	Sindh	Nur-Ri Lake	15,000	2002

3.6.13 Finfoots – Heliornithidae

Masked Finfoot Heliopais personata VU

1% = 60. This generally solitary species is restricted to South and Southeast Asia. It was recorded at only five sites. It is unlikely that any site can be expected to hold 1% of the population of this species.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Khulna	Sundarbans: Katka	2	2002
Cambodia	Battambang	Prek Toal	1	2003
Myanmar	Kachin	Nam Sam Chaung (Near Ayeyarwady)	1	2002
Myanmar	Sagaing	Nan Ezu (Eisu) Stream (Htamanthi Wildlife Sanctuary)	2	2004
Myanmar	Sagaing	Nan Phi Lin River	1	2004

3.6.14 Jacanas – Jacanidae

Pheasant-tailed Jacana Hydrophasianus chirurgus

1% = 1,250. The species is restricted to and widely distributed in South and Southeast Asia. Only one site, namely Chilika Lake, in India, met the 1% criterion (27,804 in 2002).

Bronze-winged Jacana Metopidius indicus

1% = 750. The species is restricted to and widely distributed in South and Southeast Asia. Only one site, namely Chilika Lake, in India, met the 1% criterion (23,704 in 2002).

3.6.15 Painted-Snipe – Rostratulidae

Greater Painted-Snipe Rostratula benghalensis

1% = 250 (Asia). It was recorded at a total of 84 sites, with no site meeting the 1% criterion.

3.6.16 Crab Plovers – Dromadidae

Crab Plover Dromas ardeola

1% = 700 (Northwest Indian Ocean). This coastal species was concentrated in the Jamnagar District of Gujarat State in India, with three sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	1,122	2003
India	Gujarat	Jamnagar District: Jodiya Taluka wetlands	2,212	2003
India	Gujarat	Jamnagar District: Khambhalia Taluka wetlands	3,587	2003

3.6.17 Oystercatchers – Haematopodidae

Eurasian Oystercatcher Haematopus ostralegus

1% = 1,500 (*longipes*, Northeast Africa to South Asia), 100 (*osculans*, East Asia). Large concentrations of this species were recorded only on the coast of Chungnam Province in Republic of Korea; two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Republic of Korea	Chungnam	Janghang Coast	2,463	2003
Republic of Korea	Chungnam	Yubu Island	3,200	2002

Australian Pied Oystercatcher Haematopus longirostris

1% = 110. The species is restricted to Australasia. Nine sites in southeast Australia met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Bowen	118	2003
Australia	Queensland	Moreton Bay	557	2002
Australia	South Australia	Western Eyre Peninsula	1,078	2003
Australia	Tasmania	East Derwent (Pittwater)	1,066	2002
Australia	Tasmania	Marion Bay	154	2002
Australia	Tasmania	Tasmania – North West Coast	1,192	2003
Australia	Victoria	Corner Inlet East	786	2003
Australia	Victoria	Corner Inlet West	176	2002
Australia	Victoria	Westernport Bay	342	2002

Sooty Oystercatcher Haematopus fuliginosus

1% = 40 (*fuliginosus*, South Australia), 75 (*opthalmicus*, North Australia). Six sites in southeast Australia met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	South Australia	Western Eyre Peninsula	530	2003
Australia	Tasmania	Cape Portland	42	2002
Australia	Tasmania	East Derwent (Pittwater)	47	2002
Australia	Tasmania	Tasmania – North West Coast	790	2003
Australia	Victoria	Corner Inlet East	156	2004
Australia	Victoria	Corner Inlet West	244	2004

3.6.18 Ibisbill – Ibidorhynchidae

Ibisbill Ibidorhyncha struthersii

1% Unknown. This riverine species is restricted to Central and South Asia. It was recorded in Bhutan, India and Myanmar, with 102 individuals reported from Bhutan in 2002.

3.6.19 Stilts & avocets – Recurvirostridae

Black-winged Stilt Himantopus himantopus

1% = 1,750 (*himantopus*, South Asia), 250 (*ceylonensis*, Sri Lanka), 1,000 (*himantopus*, East and Southeast Asia), 3,000 (*leucocephalus*, Australia). The species is one of the most widely distributed shorebirds across its range, recorded at 717 sites, with seven sites meeting the 1% criterion. It was not possible to be certain about the 1% criterion for *ceylonensis* as both *himantopus* and *ceylonensis* were reported in Sri Lanka, and they could not be separated in the count (Udaya Sirivardana, pers. comm., February 2007).

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Tangua Haor Complex	2,100	2002
India	Gujarat	Great Rann of Kachchh	6,000	2004
India	Gujarat	New Port Saltpans, Bhavnagar	1,800	2004
India	Gujarat	Onchal Lake	2,000	2004
India	Orissa	Chilika Lake	21,311	2003
Sri Lanka	NWP	Puttalam Salt Pans	2,500	2002
Thailand	Pattalung	Thale Noi Non-Hunting Area	1,673	2004

Banded Stilt Cladorhynchus leucocephalus

1% = 2,100. The species is restricted to Australia, with two sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Victoria	Bellarine Peninsula	5,921	2002
Australia	Western Australia	Swan River	7,649	2003

Pied Avocet Recurvirostra avosetta

1% = 1,000 (South and East Asia). The major congregations of the species were recorded from Gujarat State in India and the Lower Yangtze Floodplain in China, with a total of 10 sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Baidang Hu	1,942	2004
China	Anhui	Anqingyanjiang NR: Caizi Hu	1,770	2003
China	Hunan	East Dongting Lake NR	5,297	2003
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	1,485	2004
China	Jiangxi	Poyang Lake	6,344	2004
China	Hong Kong	Deep Bay	3,500	2004
India	Gujarat	Great Rann of Kachchh	1,000	2004
India	Gujarat	Nakti Creek (New Kandla)	1,200	2003
India	Gujarat	Nava Talao	1,500	2003
India	Gujarat	New Port Saltpans, Bhavnagar	5,815	2003

Red-necked Avocet Recurvirostra novaehollandiae

1% = 1,100. The species is restricted to Australia, with two sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	New South Wales	Hunter Estuary	3,869	2003
Australia	Victoria	Werribee	1,166	2003

3.6.20 Thick-knees – Burhinidae

Bush Thick-knee Burhinus grallarius NT

1% unknown. Only a few records, from north Australia.

Great Thick-knee Burhinus (Esacus) recurvirostris

1% = 250. The species was recorded mainly in India. It is unlikely that any site can be expected to hold 1% of the population of this non-congregatory species.

Beach Thick-knee Burhinus gigantea (Esacus magnirostris) NT

1% = 250. The species is restricted to Southeast Asia and Australasia. Only a few records were received from Australia. It is unlikely that any site can be expected to hold 1% of the population of this non-congregatory species.

3.6.21 Coursers & pratincoles – Glareolidae

Oriental Pratincole Glareola maldivarum

1% = 1,000 (India and Sri Lanka), 20,000 (East, Southeast Asia and Australia). The species is restricted to the range of the AWC and is often found away from wetlands. No site met the 1% criterion.

Small Pratincole Glareola lactea

1% = 750. The species is restricted to South and Southeast Asia, with five sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Dhaka	Dighirpar	4,000	2002
India	Kerala	Kole Wetlands	1,500	2004
India	West Bengal	Gajaldoba Teesta Barrage	789	2003
Myanmar	Kachin	Irrawaddy R: Myitkyina Panmathi Ngapyawtaw Sinbo	2,920	2003
Myanmar	Sagaing	Chindwin R: Kalewa–Hkamti and to the North	1,758	2004

3.6.22 Plovers – Charadridae

Northern Lapwing Vanellus vanellus

1% = 250 (South Asia), 10,000 (East and Southeast Asia). Good numbers of this species were recorded in the Lower Yangtze floodplain. However, as this species does not congregate in large flocks in Asia it is unlikely that many sites can be expected to hold 1% of the population.

River Lapwing Vanellus duvaucelli

1% = 250. The species is restricted to South and Southeast Asia. Only one site, namely Kishore Sagar, Rajasthan State, in India, met the 1% criterion (250 individuals recorded in 2003). The species does not normally congregate in large flocks, hence it is unlikely that many sites can be expected to hold 1% of the population.

Yellow-wattled Lapwing Vanellus malabaricus

1% = 75. The species is restricted to South Asia. Seven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Assam	Bordoloni	260	2003
India	Assam	Kuarbari-Dalani	300	2003
India	Gujarat	Boriyala Tank	100	2004
India	Gujarat	Machhan Nala Dam	100	2002
India	Gujarat	Munva Hadaf Dam	100	2002
India	Gujarat	Nagarala Pond	100	2004
India	Orissa	Harabhangi	88	2002

Grey-headed Lapwing Vanellus cinereus

1% = 1,000. The species is restricted to South, East and Southeast Asia. As this species does not normally congregate in large flocks it is unlikely that many sites can be expected to hold 1% of the population.

Red-wattled Lapwing Vanellus indicus

1% = 500 (*indicus*, South Asia), 100 (*lankae*, Sri Lanka) and unknown (*atronuchalis*, Northeast India to Malaysia). The species is the most widely distributed of the lapwings, recorded at 771 sites; four sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Sangameshwara	1,500	2002
India	Gujarat	Munva Hadaf Dam	1,000	2004
India	Orissa	Chilika Lake	879	2002
Sri Lanka	NCP	Kaudulla Tank	104	2004

Sociable Lapwing Vanellus gregarius CR

1% = 8 (South Asia). Only two records were received, from India and Pakistan, for this very rare species.

Country	Region	Site Name	Peak Count	Year
India	Uttarakhand	Tumeria Dam	2	2002
Pakistan	NWFP	Kabul River (40-km stretch)	6	2002

White-tailed Lapwing Vanellus leucurus

1% = 1,000 (South Asia). The species does not normally congregate in large flocks, hence it is unlikely that many sites can be expected to hold 1% of the population. The population estimate of 100,000 may be too high and may need to be reviewed.

Pacific Golden Plover Pluvialis fulva

1% = 750 (South and Southwest Asia), 1,000 (East, Southeast Asia and Australasia). The species was widely distributed across the range of the AWC, with nine sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Kazir Char	800	2004
Bangladesh	Sylhet	Tangua Haor Complex	1,217	2002
China	Taiwan Ilan	Chu-An	1,740	2004
China	Taiwan Ilan	Lan-Yang-Hsi (River)	3,050	2004
India	Kerala	Kole Wetlands	1,000	2004
India	Orissa	Bhitarkanika Mangrove	758	2003
India	Orissa	Chilika Lake	12,013	2002
Japan	Okinawa	Awase Higata	1,021	2004
Japan	Okinawa	Hiyagon Shicchi	823	2003

Grey Plover Pluvialis squatarola

1% = 300 (*squatarola,* South Asia), 1,300 (*squatarola,* East, Southeast Asia and Australasia). The species was widely distributed across the range of the AWC, with three sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Orissa	Chilika Lake	3,518	2002
China	Hunan	East Dongting Lake NR	3,233	2003
Japan	Saga	Daijugarami	1,400	2003

Little Ringed Plover Charadrius dubius

1% = 1,000 (*jerdoni*, South Asia; *dubius*, Philippines), 250 (*curonicus*, East and Southeast Asia). Seven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Hubei	Chen Hu	510	2003
China	Taiwan Changhua	Han-Pao	302	2002
China	Taiwan Chiayi	Ao-Ku	800	2004
China	Taiwan Ilan	Lan-Yang-Hsi (River)	330	2004
China	Taiwan Tainan	Szu-Tsao	280	2004
China	Taiwan Tainan	Tseng-Wen Hsi (River)	300	2004
Vietnam	Binh Dinh	Tra O Lagoon	300	2002

Kentish Plover Charadrius alexandrinus

1% = 750 (*alexandrinus*, South Asia), 90 (*seebohmi*, Sri Lanka), 1,000 (*dealbatus*, East and Southeast Asia). Fifteen sites met the 1% criterion. Yancheng Nature Reserve, which covers the entire coast of Jiangsu Province in China, recorded a large concentration of 36,729 individuals. It was not possible to be certain about the 1% criterion for *seebohmi* as both *seebohmi* and *alexandrinus* were reported in Sri Lanka, and they could not be separated in the count (Udaya Sirivardana, pers. comm., February 2007).

Country	Region	Site Name	Peak Count	Year
China	Hubei	Chen Hu	1,000	2003
China	Hunan	East Dongting Lake NR	3,356	2003
China	Hunan	Heng Ling Hu–He Ye Hu	1,640	2003
China	Hunan	South Dongting Lake NR	1,270	2004
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	36,729	2004
China	Shanghai	Chongming Island NR	2,389	2003
China	Hong Kong	Deep Bay	2,210	2004
China	Taiwan Changhua	Han-Pao	3,510	2002
China	Taiwan Changhua	Hsi-Kang (Ta Cheng)	1,000	2002
China	Taiwan Chiayi	Ao-Ku	1,000	2003
China	Taiwan Chiayi	Pu-Tai	1,030	2002
China	Taiwan Ilan	Chu-An	3,700	2004
China	Taiwan Ilan	Lan-Yang-His (River)	4,150	2004
China	Taiwan Tainan	Szu-Tsao	1,400	2002
India	Orissa	Chilika Lake	2,070	2004

Javan Plover Charadrius javanicus NT

Population status unknown. The species is restricted to Java, with only two records received.

Red-capped Plover Charadrius ruficapillus

1% = 950. The species is restricted to Australia, with three sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Bowen	2,069	2003
Australia	South Australia	Western Eyre Peninsula	4,719	2003
Australia	Western Australia	Eighty Mile Beach	2,020	2004

Malaysian Plover Charadrius peronii NT

1% = 250. The species is restricted to Southeast Asia. As this species does not normally congregate, it is unlikely that any site can be expected to hold 1% of the population.

Lesser Sandplover Charadrius mongolus

1% = 1,300. Four sub-species found in the AWC region, the 1% criteria are as follows, *mongolus* (Taiwan to Australia) = 400; *pamirensis* (coastal West India) = 1,250; *atrifrons* (India to Sumatra) = 1,300; *schaeferi* (coastal Thailand to Greater Sunda Islands) = 300; *stegmanni* (Kyushu, Izu Bonin and Ryukyu Islands (Japan) and Taiwan to Australia) = 200. As the non-breeding grounds of these sub-species overlap, it is difficult to apply the 1% criterion to identifying internationally important sites for them, therefore 1,300 individuals (*atrifrons*, India to Sumatra) have been used to determine the internationally important sites for this species in the AWC region. The same figure was also proposed by Bamford *et al.* (2006) for the East Asian – Australasian Flyway.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Moreton Bay	1,711	2004
Bangladesh	Chittagong	Patenga Beach	1,800	2003
India	Kerala	Purathur (Bharatapuza) Estuary	1,500	2004
India	Maharashtra	Sewree Jetty	7,000	2003
India	Orissa	Bhitarkanika Mangrove	12,857	2003
India	Orissa	Chilika Lake	5,718	2004
Malaysia	Selangor	Kapar Power Station Ash Ponds	1,940	2004
Philippines	Visayas	Olango Island Wildlife Sanctuary	1,329	2003
Sri Lanka	SP	Hambantota Wetlands	3,550	2004
Sri Lanka	SP	Palatupana Saltern	1,500	2002
Thailand	Petchaburi	Pak Thale (Laem Phak Bia)	1,700	2004

Greater Sandplover Charadrius leschenaultii

1% = 1,000 for South Asia (*leschenaultii*), East, Southeast Asia and Australasia (*leschenaultii*). Three sites met the 1% criterion. Eighty Mile Beach in Australia recorded a significant 33,495 individuals in 2002.

Country	Region	Site Name	Peak Count	Year
Australia	Western Australia	Eighty Mile Beach	33,495	2002
Australia	Western Australia	Broome	4,470	2002
India	Orissa	Chilika Lake	1,120	2002

Oriental Plover Charadrius veredus

1% = 700. The species is restricted to Southeast Asia and Australasia. One site, namely Eighty Mile Beach in Australia, met the 1% criterion with a significant count of 16,340 individuals in 2003.

Hooded Plover Charadrius rubricollis NT

1% = 45 (*rubricollis*, SE Australia), 60 (*tregellasi*, Western Australia). The species is restricted to Australia; the Northwest Tasmania Coast was the only site that met the 1% criterion (54 individuals in 2002).

3.6.23 Snipe, sandpipers & phalaropes – Scolopacidae

Wood Snipe Gallinago nemoricola VU

1% = 60. The species is restricted to South and Southeast Asia. Only one individual was recorded, at Indaw-Gyi Lake, Kachin Province, Myanmar, in 2003. For this species it is unlikely that any site can be expected to hold 1% of the population.

Common Snipe Gallinago gallinago

1% = 10,000 (*gallinago*, South Asia; East and Southeast Asia). This is one of most common snipe species. Snipe normally hide in grassland or rice paddies therefore the species has been always under-counted and it is unlikely that 1% of the population could be recorded at any one site.

Asian Dowitcher Limnodromus semipalmatus NT

1% = 230. The species is restricted to the East Asian – Australasian Flyway. Sungai Cemara Beach, Jambi Province, Indonesia, was the only site that met the 1% criterion, with 500 individuals recorded in 2002.

Black-tailed Godwit Limosa limosa NT

1% = 1,500 (*limosa*, South Asia), 1,600 (*melanuroides*, East, Southeast Asia and Australasia). Ten sites met the 1% criterion. Two sites on the coast of Orissa, in India, recorded large concentrations of the species in 2002–2003; the population appears to be stable in South Asia. In the East Asian – Australasian Flyway, only one site in Australia met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Western Australia	Broome	2,120	2004
Bangladesh	Sylhet	Tangua Haor Complex	5,800	2003
India	Andhra Pradesh	Pulicat Lake Bird Sanctuary	1,500	2004
India	Gujarat	Lambhvel Sewage Pond	2,896	2004
India	Gujarat	Pipalava Bandharo	7,000	2003
India	Orissa	Bhitarkanika Mangrove	85,414	2003
India	Orissa	Chilika Lake	98,283	2002
India	Tamil Nadu	Andi Odai Tank	1,700	2003
Sri Lanka	NP	Jaffna–Arali–Punalai	3,285	2004
Sri Lanka	NP	Mannar Causeway	3,000	2003

Bar-tailed Godwit Limosa lapponica

1% = 1,300 (*taymyrensis*, South Asia), 1,700 (*menzbieri* and *anadyrensis*) East and Southeast Asia), 1,600 (*baueri*, East Australia and New Zealand). Eight sites, five of which are in Australia, met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Moreton Bay	9,458	2002
Australia	Queensland	Townsville	1,806	2003
Australia	Victoria	Corner Inlet East	10,648	2004
Australia	Western Australia	Eighty Mile Beach	20,020	2004
Australia	Western Australia	Broome	16,635	2004
Bangladesh	Barisal	Gazipur Char	2,500	2002
India	Orissa	Chilika Lake	4,230	2003
Indonesia	Jambi	Sungai Cemara Beach	3,000	2002

Whimbrel Numenius phaeopus

1% = 1,000 (*variegatus*, South Asia), 550 (*variegatus*, East, Southeast Asia and Australasia). Four sites on the East Asian – Australasian Flyway met the 1% criterion; Kapar Power Station Ash Ponds in Malaysia recorded the highest number of this species.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Bowen	615	2003
Australia	Queensland	Moreton Bay	872	2002
Australia	Queensland	Townsville	979	2003
Malaysia	Selangor	Kapar Power Station Ash Ponds	1,501	2003

Eurasian Curlew Numenius arquata

1% = 1,000 (*orientalis*, South Asia), 350 (*orientalis*, East and Southeast Asia). Eleven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Barisal	Mudflat in east of Moulovir Char	1,000	2002
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	2,108	2004
China	Hong Kong	Deep Bay	976	2003
China	Taiwan Chinmen	Chin-Men Island	380	2003
India	Orissa	Chilika Lake	12,082	2002
Republic of Korea	Chungnam	Janghang Coast	1,952	2003
Republic of Korea	Chungnam	Yubu Island	436	2004
Republic of Korea	Incheon	Youngjong Island	350	2002
Republic of Korea	Jeonbuk	Dongjin River Estuary	597	2003
Republic of Korea	Jeonnam	Yeuja Bay	1,343	2003
Malaysia	Selangor	Kapar Power Station Ash Ponds	911	2003

Far Eastern Curlew Numenius madagascariensis

1% = 380. The species is restricted to the East Asian – Australasian Flyway, with the main non-breeding population across Australia. Six sites in Australia met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	New South Wales	Hunter Estuary	617	2002
Australia	Queensland	Moreton Bay	2,448	2002
Australia	Queensland	Townsville	867	2003
Australia	Victoria	Corner Inlet East	940	2003
Australia	Victoria	Westernport Bay	637	2002
Australia	Western Australia	Broome	460	2004

Spotted Redshank Tringa erythropus

1% = 250 (South Asia), 1,000 (East and Southeast Asia). A total of eight sites met the 1% criterion. The majority of the species on the East Asian – Australasian Flyway reported in China, where six sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Anqingyanjiang NR: Baidang Hu	1,245	2004
China	Anhui	Anqingyanjiang NR: Bo Hu	4,238	2004
China	Anhui	Anqingyanjiang NR: Long Gan Hu	1,009	2004
China	Hunan	East Dongting Lake NR	6,832	2003
China	Jiangxi	Poyang Lake	5,791	2004
China	Hong Kong	Deep Bay	2,500	2002
India	Andhra Pradesh	Sangameshwara	500	2002
India	Orissa	Chilika Lake	333	2003

Common Redshank Tringa totanus

1% = 1,000 (*ussuriensis*, South and Southeast Asia; *terrignotae*, East and Southeast Asia; *craggi*, East China?; *eurhinus*, India and Sri Lanka). A total of nine sites met the 1% criterion. On the East Asian– Australasian Flyway, only one site, namely Kapar Power Station Ash Ponds in Malaysia, met the criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Chinatumbulum Tank	1,230	2002
India	Andhra Pradesh	Sangameshwara	1,500	2002
India	Gujarat	Great Rann of Kachchh	1,500	2004
India	Gujarat	Victor (Bherai) Salt Pans and Coastal Area	1,000	2003
India	Maharashtra	Sewree Jetty	1,500	2003
India	Orissa	Bhitarkanika Mangrove	3,670	2003
India	Orissa	Chilika Lake	1,862	2002
Malaysia	Selangor	Kapar Power Station Ash Ponds	1,440	2003
Sri Lanka	SP	Hambantota Wetlands	1,020	2004

Marsh Sandpiper Tringa stagnatilis

1% = 1,000 (South Asia), 10,000 (East, Southeast Asia and Australasia). The 1% criterion proposed by Wetlands International (2006) for the East Asian population is too high, therefore no site met it. Instead, the 1% criterion set by Bamford *et al.* (2006) at 1,000 for the East Asian – Australasian Flyway population was used to identify internationally important sites for this species. Four sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Hong Kong	Deep Bay	1,130	2003
India	Orissa	Chilika Lake	7,153	2002
Philippines	Mindanao	Brgy. Lapaz, Carmen	1,000	2004
Sri Lanka	SP	Hambantota Wetlands	8,020	2004

Common Greenshank Tringa nebularia

1% = 750 (South Asia), 1,000 (East, Southeast and Australia). Only one site in South Asia met the 1% criterion. The criterion for East and Southeast Asia might be set too high, as no sites met it. The 1% criterion of 600 individuals, as established by Bamford *et al.* (2006), was used here for the East and Southeast Asian population, with two sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Western Australia	Eighty Mile Beach	937	2002
India	Orissa	Chilika Lake	2,158	2002
Philippines	Luzon	Coastal Road Lagoons at Paranaque	745	2004

Nordmann's Greenshank Tringa guttifer EN

1% = 8. The species is restricted to the East Asian – Australasian Flyway. It is one of the rarest shorebird species, recorded at only seven sites, two of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Malaysia	Penang	Kuala Bekah (Telok Air Tawar)–Kuala Muda coast	31	2004
Thailand	Samut Sakhon	Khok Kham	28	2004
Other sites when	re the species was recorde	ed		
Indonesia	Jambi	Sungai Cemara Beach	5	2002
Malaysia	Sarawak	Bako–Buntal Bay and surrounding areas	4	2003
Malaysia	Selangor	Kapar Power Station Ash Ponds	6	2004
Thailand	Krabi	Pak Nam (Krabi Mangroves)	7	2003
Thailand	Petchaburi	Pak Thale (Laem Phak Bia)	7	2004

Green Sandpiper Tringa ochropus

1% = 1,000 (South Asia; East and Southeast Asia). Only one site in South Asia, namely Chilika Lake in India, met the 1% criterion (1,108 individuals in 2002). The criterion for East and Southeast Asia might be set too high as no sites met it.

Wood Sandpiper Tringa glareola

1% = 1,500 (South Asia), 1,000 (East, Southeast Asia and Australasia). Only one site, namely Chilika Lake in India, met the 1% criterion (3,427 individuals in 2003).

Terek Sandpiper Xenus cinereus

1% = 1,000 (South Asia), 500 (East, Southeast Asia and Australasia). Three sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Western Australia	Eighty Mile Beach	6,186	2002
Australia	Western Australia	Broome	1,840	2004
Malaysia	Selangor	Kapar Power Station Ash Ponds	500	2002

Common Sandpiper Actitis hypoleucos

1% = 750 (South Asia), 500 (East, Southeast Asia and Australasia). This is the most widely distributed of the shorebird species, recorded at 926 sites, however it does not normally congregate in large flocks, and therefore no sites met the 1% criterion.

Grey-tailed Tattler Heteroscelus brevipes

1% = 400. The species is restricted to the East Asian – Australasian Flyway and spend the non-breeding period mainly in Australia. Four sites in Australia met the 1% criterion; Eighty Mile Beach recorded 30% of the population in 2002.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Moreton Bay	1,607	2002
Australia	Queensland	Townsville	607	2003
Australia	Western Australia	Eighty Mile Beach	12,420	2002
Australia	Western Australia	Broome	1,690	2002

Ruddy Turnstone Arenaria interpres

1% = 1,000 (*interpres,* South Asia; *interpres,* Pacific and Southeast Asia). One site, namely the North West Tasmania Coast in Australia, met the 1% criterion (2,217 in 2003).

Great Knot Calidris tenuirostris

1% = 35 (Northwest India, Pakistan and Sri Lanka), 3,800 (Southeast India, East, Southeast Asia and Australasia). The species spend the non-breeding period mainly in Australia, with three sites meeting the 1% criterion. Eighty Mile Beach alone recorded more than 10% of the population.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Townsville	18,702	2003
Australia	Western Australia	Eighty Mile Beach	47,994	2002
Australia	Western Australia	Broome	15,935	2003

Red Knot Calidris canutus

1% = 2,200 for both *rogersi* (Southeast Asia and Australasia) and *piersmai* (Australia and New Zealand). The two populations spend the non-breeding period mainly in Australasia, where two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Victoria	Corner Inlet East	2,501	2004
Australia	Western Australia	Eighty Mile Beach	5,781	2002

Sanderling Calidris alba

1% = 1,000 (South Asia), 220 (East and Southeast Asia). Eleven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	South Australia	South East Coast – South Australia	329	2002
Australia	South Australia	Western Eyre Peninsula	787	2003
Australia	Western Australia	Eighty Mile Beach	233	2002
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	1,542	2004
Japan	Chiba	Banzu	223	2003
Japan	Chiba	lioka Kaigan	223	2003
Japan	Chiba	Magame-Gawa, Sakuda-Gawa	496	2002
Japan	Chiba	Sakuda-Gawa, Kido-Gawa	379	2002
Japan	Fukuoka	Wajiro Higata	235	2003
Japan	Ishikawa	Takamatsu, Kahoku Kaigan	446	2004
Republic of Korea	Busan	Nakdong Estuary	290	2004

Red-necked Stint Calidris ruficollis

1% = 3,200. The species is restricted to the East Asian – Australasian Flyway. Large flocks were recorded only in Australia, where 11 sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Moreton Bay	7,488	2004
Australia	Queensland	Townsville	5,429	2003
Australia	South Australia	Western Eyre Peninsula	13,858	2003
Australia	Tasmania	Tasmania – North West Coast	13,882	2004
Australia	Victoria	Altona	8,343	2003
Australia	Victoria	Bellarine Peninsula	14,777	2003
Australia	Victoria	Corner Inlet East	16,210	2004
Australia	Victoria	Werribee	13,642	2003
Australia	Victoria	Westernport Bay	8,903	2004
Australia	Western Australia	Eighty Mile Beach	9,080	2002
Australia	Western Australia	Broome	4,875	2003

Little Stint Calidris minuta

1% = 2,500 (South Asia). Five sites met the 1% criterion; the Pulicat Lake Bird Sanctuary alone recorded 8% of the population.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Kondakarla Lake	3,500	2002
India	Andhra Pradesh	Pulicat Lake Bird Sanctuary	20,000	2003
India	Orissa	Bhitarkanika Mangrove	2,937	2003
India	Orissa	Chilika Lake	5,368	2003
Sri Lanka	SP	Hambantota Wetlands	8,025	2004

Temminck's Stint Calidris temminckii

1% = 1,000 (South Asia; East and Southeast Asia). Three sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Nava Talao	1,000	2003
India	Orissa	Bhitarkanika Mangrove	1,090	2003
India	Orissa	Chilika Lake	1,234	2002

Long-toed Stint Calidris subminuta

1% = 250. The species is restricted to the range of the AWC, with two sites in Taiwan meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Taiwan Changhua	Han-Pao	300	2002
China	Taiwan Pingtung	Tung Kung	300	2004

Sharp-tailed Sandpiper Calidris acuminata

1% = 1,600. The species is restricted to the East Asian – Australasian Flyway and spend the non-breeding period mainly in Australia. Five sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Bowen	2,997	2003
Australia	South Australia	Western Eyre Peninsula	2,924	2003
Australia	Victoria	Bellarine Peninsula	3,990	2003
Australia	Victoria	Eastern Port Phillip	1,658	2002
Australia	Victoria	Werribee	2,894	2002

Curlew Sandpiper Calidris ferruginea

1% = 2,500 (South Asia), 1,800 (East, Southeast Asia and Australasia). Eleven sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Australia	Queensland	Bowen	3,333	2003
Australia	South Australia	Western Eyre Peninsula	2,140	2003
Australia	Tasmania	Tasmania – North West Coast	1,959	2004
Australia	Victoria	Werribee	2,226	2004
Australia	Victoria	Westernport Bay	3,170	2002
Australia	Western Australia	Eighty Mile Beach	6,330	2002
Australia	Western Australia	Broome	1,829	2004
India	Maharashtra	Sewree Jetty	2,500	2003
India	Orissa	Chilika Lake	2,668	2004
Sri Lanka	NP	Uppu Aru Lagoon	10,228	2004
Sri Lanka	SP	Hambantota Wetlands	10,100	2004

Dunlin Calidris alpina

1% = 1,000 (*centralis*, South Asia), 10,000 (*sakhalina*, East Asia; *kistchinskii*, unknown), 7,500 (*arcticola*, East Asia), 9 (*actites*, unknown). As the non-breeding grounds of the sub-species overlap, it was difficult to apply the 1% criterion to the East Asian – Australasian Flyway population; therefore 10,000 was used as the 1% criteria for identifying internationally important sites in East and Southeast Asia. Three sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Hunan	East Dongting Lake NR	16,117	2003
China	Taiwan Chiayi	Ao-Ku	10,000	2003
India	Orissa	Chilika Lake	20,092	2002

Spoon-billed Sandpiper Eurynorhynchus pygmeus EN

1% = 30. The species is one of the rarest shorebird species restricted to the East Asian – Australasian Flyway. It was recorded at only five sites, with no sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Orissa	Chilika Lake	6	2003
Japan	Fukuoka	Sone-Higata (Tideland)	1	2002
Malaysia	Selangor	Kapar Power Station Ash Ponds	1	2002
Thailand	Petchaburi	Pak Thale (Laem Phak Bia)	2	2004
Thailand	Samut Sakhon	Khok Kham	3	2003

Broad-billed Sandpiper Limicola falcinellus

1% = 630 (*falcinellus*, West and South India), 1,000 (*sibirica*, East India, East, Southeast Asia and Australasia). The species often mixes with Curlew Sandpiper, a similar-looking species, therefore it may have been overlooked during the census; no site met the 1% criterion.

Ruff Philomachus pugnax

1% = 1,000 (South Asia). Seven sites in northwest India met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	9,885	2003
India	Gujarat	Jamnagar District: Khambhalia Taluka wetlands	3,740	2003
India	Gujarat	Lambhvel Sewage Pond	5,550	2003
India	Gujarat	Nava Talao	3,000	2003
India	Orissa	Chilika Lake	1,538	2002
India	Rajasthan	Bardha Dam	2,000	2002
India	Rajasthan	Vardha Dam	3,000	2004

3.6.24 Gulls – Laridae

As the definitive classification of the 'large white-headed gulls' groups is still under development, observers used different field guides, the nomenclatures used by the different guides varying. For this reason, information on this group is not summarised here.

Black-tailed Gull Larus crassirostris

1% = 10,500. The species is restricted to East Asia. No site met the 1% criterion.

Common Gull Larus canus

1% = 1,000 (*kamtschatschensis*, East and Southeast Asia). Three sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	1,156	2004
Republic of Korea	Busan	Nakdong Estuary	1,054	2004
Republic of Korea	Gangwon	Gangneung – Jumunjin Coast	2,726	2003

Slaty-backed Gull Larus schistisagus

1% Unknown. The species is restricted to East Asia.

Great Black-headed Gull, Pallas's Gull Larus ichthyaetus

1% = 1,000 (South Asia). Two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Orissa	Bhitarkanika Mangrove	1,028	2003
Sri Lanka	NP	Kora Kulam	1,900	2003

Brown-headed Gull Larus brunnicephalus

1% = 1,500 (South Asia, Indochina and South China). Eight sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Goa	Chapora Estuary: Marjim – 'Tembwado' Coastline	6,000	2003
India	Goa	Mandovi Estuary	1,600	2004
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	1,668	2003
India	Gujarat	Lakhota Lake	1,500	2003
India	Orissa	Bhitarkanika Mangrove	2,513	2003
India	Orissa	Chilika Lake	1,935	2004
India	West Bengal	Farakka Barrage (Ganges River)	2,100	2003
Thailand	Samut Prakan	Bangpoo Bang Pu	8,500	2003

Common Black-headed Gull Larus ridibundus

The 1% criteria for the South, East and Southeast Asian populations are unknown. This is the most widely distributed gull species recorded at 309 sites, with large concentrations in China and India.

Slender-billed Gull Larus genei

1% = 1,500 (South Asia). A major congregation of this species was recorded in Gujarat State in India. No site met the 1% criterion.

Saunders's Gull Larus saundersi VU

1% = 85. The species is restricted to East Asia. It was recorded at 45 sites, 10 of which met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	498	2004
China	Taiwan Changhua	Han-Pao	286	2002
China	Taiwan Chiayi	Ao-Ku	300	2002
Republic of Korea	Chungnam	Ganwol Reservoir	120	2002
Republic of Korea	Chungnam	Geum River Estuary	645	2004
Republic of Korea	Chungnam	Janghang Coast	94	2002
Republic of Korea	Chungnam	Yubu Island	505	2004
Republic of Korea	Jeonbuk	Mangyung River Estuary	85	2003
Republic of Korea	Jeonnam	Suncheon Bay	305	2003
Republic of Korea	Jeonnam	Yeuja Bay	351	2003
Other sites where th	e species was recorded			
China	Fujian	Huaqiao Farm, Jiangjing Town	11	2003
China	Fujian	Quanzhou Bay	6	2003
China	Fujian	Tangdong Mudflat	12	2004

Country	Region	Site Name	Peak Count	Year
China	Fujian	Xiamen Coast: Aotou Mudflat	6	2003
China	Fujian	Xiamen Coast: Fenglin Mangrove	3	2003
China	Guangdong	Zhanjiang Nature Reserve	12	2003
China	Jiangsu	Gaoyou	10	2004
China	Tianjin	Tianjin Haibin Fish Farm	12	2004
China	Hong Kong	Deep Bay: Combined	34	2003
China	Taiwan Changhua	Hsi-Kang (Ta Cheng)	60	2002
China	Taiwan Chiayi	Pei Kang Hsi (Yun-Chia-Chiao)	7	2002
China	Taiwan Chiayi	Pu-Tai	11	2004
China	Taiwan Chinmen	Chin-Men Island	54	2004
China	Taiwan Hsinchu	Ku-Liao (Kang Nan)	20	2002
China	Taiwan Ilan	Chu-An	1	2003
China	Taiwan Taichung	Ta-Chia River (Kao Mei)	51	2002
China	Taiwan Tainan	Pei-Men	3	2002
China	Taiwan Tainan	Tseng-Wen Chi (River)	5	2004
China	Taiwan Yunlin	Shui-Lin	12	2002
Japan	Aichi	Shio Kawa Tideland	4	2002
Japan	Fukuoka	East Region of Ariake Sea	23	2002
Japan	Fukuoka	East Region of Hakata Bay	6	2004
Japan	Fukuoka	Imazu	33	2003
Republic of Korea	Busan	Nakdong Estuary	55	2003
Republic of Korea	Chungnam	Bunam Reservoir	2	2003
Republic of Korea	Gangwon	Samcheok – Gangneung Coast	3	2002
Republic of Korea	Gyeonggi	Asan Lake	3	2002
Republic of Korea	Gyeongnam	Dangdong Bay	1	2004
Republic of Korea	Gyeongnam	Sacheon Bay	5	2004
Republic of Korea	Jeonnam	Boseong and Deukryang Bay	18	2003
Republic of Korea	Jeonnam	Gwangyang and Galsa Bay	22	2003
Vietnam	Nam Dinh (Nam Ha)	Xuan Thuy Ramsar Site	2	2004
Vietnam	Quang Ninh Province	Tra Co Peninsula	8	2002
Vietnam	Thai Binh	Thai Thuy District	1	2002

Relict Gull Larus relictus VU

1% = 120. The species is restricted to Central and East Asia. It was recorded at four sites; one site on the Tianjin coast (China) met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Tianjin	Tianjin Haibin Fish Farm	3,362	2004
Other sites where th	e species was re	ecorded		
China	Jiangsu	Yancheng NR: Entire coast of Jiangsu Province	5	2004
Republic of Korea	Busan	Nakdong Estuary	1	2003
Republic of Korea	Jeonnam	Yeuja Bay	1	2003

3.6.25 Terns – Sternidae

Gull-billed Tern Sterna nilotica

1% = 800 (*nilotica*, South Asia), 1,000 (*addenda*, East, Southeast and Australasia). It was recorded at a total of 177 sites, with no site meeting the 1% criterion.

Caspian Tern Sterna caspia

1% = 750 (South Asia), 250 (East and Southeast Asia). Two sites in Taiwan met the 1% criterion; no site in South Asia met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
China	Taiwan Chiayi	Pu-Tai	500	2004
China	Taiwan Tainan	Tseng-Wen Hsi (River)	450	2004

Lesser Crested Tern Sterna (Thalasseus) bengalensis

1% = 1,700 (*bengalensis*, South Asia). The species is concentrated in Sri Lanka, where two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
Sri Lanka	NP	Adam's Bridge Islands	25,000	2003
Sri Lanka	NP	Delft Island	3,160	2002

Greater Crested Tern Sterna (Thalasseus) bergii

1% = 10,000 (*velox*, South Asia) and unknown (*cristata*, East and Southeast Asia). One site in Sri Lanka, namely Adam's Bridge Islands, met the 1% criterion (13,677 individuals recorded in 2003).

River Tern Sterna aurantia

1% = 750. The species is largely restricted to South Asia extending eastwards to the Mekong River, with five sites meeting the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Andhra Pradesh	Kolleru Wetland: Penumaka Lanka	1,000	2003
India	Gujarat	Nyari-I	2,004	2004
India	Himachal Pradesh	Pong Dam Bird Sanctuary	907	2002
India	Maharashtra	Thane–Ulhas Estuary	1,505	2003
India	Orissa	Chilika Lake	2,179	2002

Black-naped Tern Sterna sumatrana

1% unknown. The species was recorded at a few sites in Southeast Asia.

Common Tern Sterna hirundo

1% = 1,000 (*tibetana,* East Indian Ocean). Unknown for *minussensis* (North Indian Ocean) and *longipennis* (SE Asia to Australia). It was recorded at a total of 137 sites, with no site meeting the 1% criterion.

Little Tern Sterna albifrons

1% = 750 (*pusilla*, South Asia), 1,000 (*sinensis*, Southeast Asia). Two sites met the 1% criterion.

Country	Region	Site Name	Peak Count	Year
India	Orissa	Chilika Lake	1,890	2003
Philippines	Mindanao	Bonifacio Wetland	1,231	2004

Black-bellied Tern Sterna acuticauda NT

1% = 250. The species is restricted to South and Southeast Asia. One site, namely Victor Salt Pans and Coastal Area, in Gujarat State in India, met the 1% criterion (305 individuals in 2003).

Whiskered Tern Chlidonias hybrida

1% = 1,000 (*indica*, South Asia; *javanica*, South Asia), East and Southeast Asia (*swinhoei*) unknown. Five sites in South Asia met the 1% criterion. For the East and Southeast Asian population, a peak total count of 23,592 birds was recorded at 53 sites across the three years. It is proposed, therefore, that a population estimate of 50,000–100,000 to be used.

Country	Region	Site Name	Peak Count	Year
India	Kerala	Kole Wetlands	15,000	2004
India	Kerala	Vembanad: Vembanad Lake	3,000	2002
India	Orissa	Chilika Lake	7,748	2002
India	Tamil Nadu	Karavetty Tank	1,200	2003
Sri Lanka	NCP	Minneriya National Park	1,500	2004

White-winged (Black) Tern Chlidonias leucopterus

1% in South, East and Southeast Asia unknown. The species was recorded at a total of 41 sites.

3.6.26 Skimmers – Rynchopidae

Indian Skimmer Rynchops albicollis VU

1% = 80. The species is restricted to South Asia. It was recorded at a total of 21 sites, with two sites meeting the 1% criterion. Jahajmara, on the coast of Bangladesh, recording more than 10% of the population.

Country	Region	Site Name	PeakCount	Year
Bangladesh	Chittagong	Jahajmara	1,000	2004
India	Uttar Pradesh	National Chambal Sanctuary	341	2002
Other sites where	the species was recorde	d		
Bangladesh	Barisal	Doba Char	3	2002
India	Andhra Pradesh	Icrisat Campus (Patancheru)	1	2002
India	Gujarat	Jafarabad Coast	2	2003
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	3	2003

Country	Region	Site Name	PeakCount	Year
India	Gujarat	Victor (Bherai) Salt Pans and Coastal Area	2	2003
India	Karnataka	Krishna River – Karnataka	4	2003
India	Madhya Pradesh	Chambal River: National Chambal Sanctuary	22	2003
India	Maharashtra	Hipparga Tank	2	2003
India	Orissa	Bhitarkanika Mangrove	61	2003
India	Orissa	Chilika Lake	4	2002
India	Orissa	Dhulia Nali Dam – Manpur	5	2003
India	Orissa	Hirakud Reservoir	66	2002
India	Orissa	Sisilo: Badapokhari Tank	55	2002
India	Orissa	Sundar Dam	18	2003
India	Orissa	Suvarnapur – Ansupa	14	2003
India	Punjab	Harike Wetland	5	2002
India	West Bengal	Chittaranjan Bara Dam	9	2003
Myanmar	Sagaing	Chindwin R: Kalewa – Hkamti and to the North	1	2004
Myanmar	Shan	Inle Lake Wildlife Sanctuary	2	2003

3.6.27 Seabirds

Laysan Albatross Phoebastria immutabilis VU

One individual was recorded at Han-Pao, Changhua County, Taiwan, in 2004.

Christmas Frigatebird Fregata andrewsi CR

1% = 45. Seven hundred individuals were recorded at Mantanani Island, Sabah, Malaysia, in 2003.

3.6.28 Birds of prey

Raptors generally do not form large flocks and for most species the population figure in Asia is unknown, therefore was not possible to identify the internationally important sites according to 1% criteria. Distribution maps for the following species are given in section 3.6.30.

Osprey Pandion haliaetus

The species was recorded at a total of 138 sites within the range of the AWC.

Brahminy Kite Haliastur indus

The species is restricted to the range of the AWC and was recorded at 230 sites; it was one of the most widely distributed raptor species reported.

White-bellied Fish-eagle Haliaeetus leucogaster

The species is restricted to the range of the AWC and is observed mainly in coastal areas. It was recorded at a total of 60 sites.

Pallas's Fish-eagle Haliaeetus leucoryphus VU

The species was recorded at 28 sites in South Asia.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Khajauory Beel	1	2002
Bangladesh	Sylhet	Pana Beel	2	2003
Bangladesh	Sylhet	Pashua Haor	2	2002
Bangladesh	Sylhet	Tangua Haor Complex	4	2004
India	Andhra Pradesh	Pulicat Lake Bird Sanctuary	1	2004
India	Assam	Bordoibam Bilmukh Bird Santuary	1	2004
India	Assam	Bordoloni	3	2003
India	Assam	Kaziranga National Park	2	2004
India	Assam	Kuarbari-Dalani	1	2003
India	Chhattishgarh	Bharda Village	1	2004
India	Gujarat	Jamnagar District: Jamnagar Taluka wetlands	1	2003
India	Himachal Pradesh	Pong Dam Bird Sanctuary	3	2004
India	Madhya Pradesh	Upper Lake, Bhopal City	1	2003
India	Maharashtra	Powai Lake	1	2003
India	Maharashtra	Tansa (Belnala) WLS	1	2003
India	Orissa	Hirakud Reservoir	1	2003
India	Uttar Pradesh	Chaltuwa Wetland	2	2003
India	Uttar Pradesh	Kishanpur Wildlife Sanctuary	2	2003

Country	Region	Site Name	Peak Count	Year
India	Uttar Pradesh	Nachan Tal	2	2003
India	Uttarakhand	Asan Barrage	1	2002
India	Uttarakhand	Gol Tapper	1	2003
India	Uttarakhand	Tumeria Dam	1	2003
India	West Bengal	Ahiron, Murshidabad	1	2003
India	West Bengal	Chittaranjan Bara Dam	2	2003
India	West Bengal	Purbasthali	1	2004
India	West Bengal	Rasik Bill	1	2003
Pakistan	Baluchistan	Gwadar Beach	1	2002
Pakistan	Sindh	Hub Dam	2	2003

White-tailed Eagle Haliaeetus albicilla NT

The species was recorded at a total of 34 sites within the range of the AWC.

Steller's Sea-eagle Haliaeetus pelagicus VU

The species is restricted to East Asia. The population was estimated at 5,000 individuals by Ferguson-Lee *et al.* (2001). It was recorded at six sites.

Country	Region	Site Name	Peak Count	Year
Japan	Hokkaido	Kushiro: Akkeshi Lake	27	2002
Republic of Korea	Busan	Nakdong Estuary	1	2002
Republic of Korea	Chungnam	Ganwol Reservoir	2	2003
Republic of Korea	Gangwon	Yangyang–Sokcho Coast	1	2003
Republic of Korea	Gyeongbuk	Pohang–Yeongdeok Coast	2	2002
Russia	Kamtchatka Region	Petropavlovsk – Kamchatsky (Avacha Bay)	30	2002

Lesser Fish-eagle Ichthyophaga humilis NT

The species is restricted to South and Southeast Asia. It was recorded at a total of 10 sites.

Grey-headed Fish-eagle Ichthyophaga ichthyaetus NT

The species is restricted to South and Southeast Asia. It was recorded at a total of 31 sites.

Pallid Harrier Circus macrourus NT

The species was recorded at a total of 9 sites within the range of the AWC.

Western Marsh Harrier Circus aeruginosus

The species was recorded at 240 sites mainly in South Asia.

Greater Spotted Eagle Aquila clanga VU

The species was reported from the following 50 sites.

Country	Region	Site Name	Peak Count	Year
Bangladesh	Sylhet	Hail Haor	2	2004
Bangladesh	Sylhet	Hakaluki Haors	1	2004
China	Hong Kong	Deep Bay	3	2004
India	Bihar	Vikramshila Ganga Dolphin Sanctuary	1	2003
India	Goa	Curtorim Mangroves	1	2003
India	Goa	Macasana Tanks	1	2003
India	Goa	Neura Wetlands	3	2003
India	Goa	Raiturem Mangroves	1	2003
India	Goa	Santa Cruz Pond	1	2003
India	Goa	Seraulim Lake	1	2003
India	Gujarat	Lambhvel Sewage Pond	1	2004
India	Gujarat	Nagarama Village Pond	1	2004
India	Gujarat	Nani Kakrad	5	2004
India	Gujarat	Narda Tank	3	2004
India	Gujarat	Nava Talao	1	2003
India	Gujarat	Pariej	4	2004
India	Gujarat	Pipalava Bandharo	3	2003
India	Gujarat	Thol Lake Bird Sanctuary	1	2003
India	Haryana	Basai Wetlands	3	2003
India	Haryana	Bhindavas Lake Bird Sanctuary	3	2003
India	Haryana	Sultanpur Bird Sanctuary	2	2003
India	Karnataka	Kallur Tank	1	2004
India	Karnataka	Krishnaraja Sagar Reservoir	2	2004
India	Karnataka	Kunthur Tank	2	2004
India	Karnataka	Lingambudhi Tank	1	2004

Country	Region	Site Name	Peak Count	Year
India	Kerala	Kattampally	12	2003
India	Kerala	Vembanad: Kaippuzha Muttu	2	2004
India	Maharashtra	Hipparga Tank	3	2003
India	Orissa	Bhitarkanika Mangrove	4	2003
India	Rajasthan	Ram Sagar Lake (Hindoli)	1	2004
India	Uttar Pradesh	Yamuna R: Agra	1	2003
India	West Bengal	Naya Bandh Bill	1	2003
Malaysia	Johor	Parit Jawa	5	2002
Malaysia	Johor	Sungai Balang	2	2004
Malaysia	Melaka	Batang Tiga Ricefields	2	2002
Myanmar	Kachin	Byee Lake	1	2004
Myanmar	Kachin	Indaw – Gyi Lake	2	2004
Myanmar	Sagaing	Yemyetkyi Inn	2	2002
Myanmar	Shan	Nadi Kan	2	2002
Myanmar	Shan	Sagar Kan (Connected to Inle Kan)	1	2002
Pakistan	Baluchistan	Aakra River Estuary (on Arabian Sea)	2	2002
Pakistan	Baluchistan	Akara (Kaur) Dam	1	2002
Pakistan	Baluchistan	Saiji Dam	2	2002
Pakistan	Sindh	Charvo Lake	1	2002
Pakistan	Sindh	Haleji Lake	4	2002
Pakistan	Sindh	Hawkes Bay/Sandspit	4	2002
Pakistan	Sindh	Hub Dam	4	2002
Pakistan	Sindh	Keenjhar Lake	6	2002
Pakistan	Sindh	Lungh Lake	8	2003
Pakistan	Sindh	Phoosna	1	2002

Imperial Eagle Aquila heliaca VU

The species was recorded at the following 13 sites.

Country	Region	Site Name	Peak Count	Year
China	Anhui	Sheng Jin Hu	1	2002
China	Hong Kong	Deep Bay	4	2004
India	Gujarat	Bajana Creek – Tandi	1	2003
India	Gujarat	Nani Kakrad	4	2004
India	Uttar Pradesh	Tiger Haven	1	2003
India	West Bengal	Fulbari	1	2004
Republic of Korea	Chungnam	Ganwol Reservoir	1	2002
Malaysia	Johor	Parit Jawa	1	2002
Pakistan	Baluchistan	Aakra River Estuary (on Arabian Sea)	1	2002
Pakistan	Baluchistan	Gwadar Beach	1	2002
Pakistan	Islamabad	Rawal Lake	1	2003
Pakistan	Punjab	Ucchali Wetland Complex: Khabbaki Lake	1	2003
Pakistan	Sindh	Hub Dam	2	2002

3.6.29 Kingfishers

Population figures for most of the kingfishers in Asia are unknown, therefore it was not possible to identify the internationally important sites according to the 1% criterion. Maps for the following species are given in section 3.6.30.

White-throated Kingfisher Halcyon smyrnensis

This is the most common kingfisher species, recorded at 480 sites within the range of the AWC.

Black-capped Kingfisher Halcyon pileata

The species is restricted to South, East and Southeast Asia. It was recorded at a total of 40 sites.

Collared Kingfisher Todiramphus chloris

This is mainly a coastal species, recorded at 30 sites.

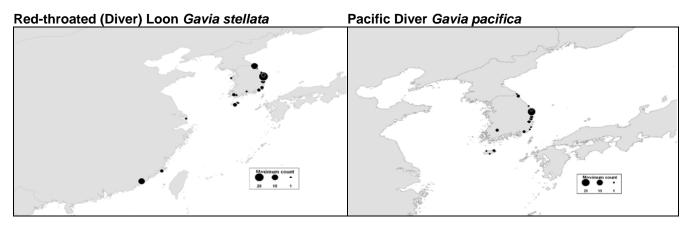
Common Kingfisher Alcedo atthis

This is a common species, recorded at 354 sites.

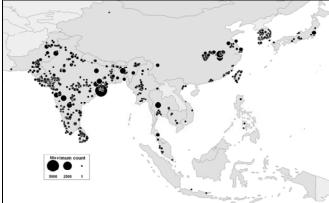
Pied Kingfisher Ceryle rudis

The species is restricted to South, East and Southeast Asia. It was recorded at a total of 296 sites.

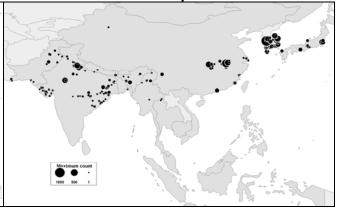
3.6.30 Distribution maps of the selected species



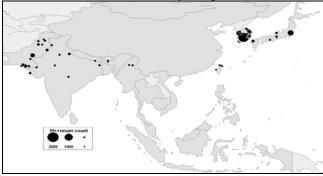
Little Grebe Tachybaptus ruficollis



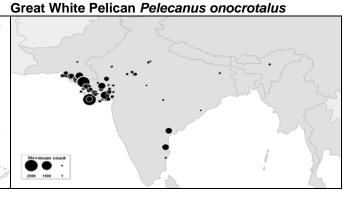
Great Crested Grebe Podiceps cristatus



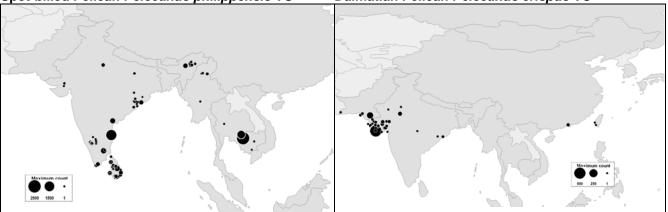
Black-necked Grebe Podiceps nigricollis



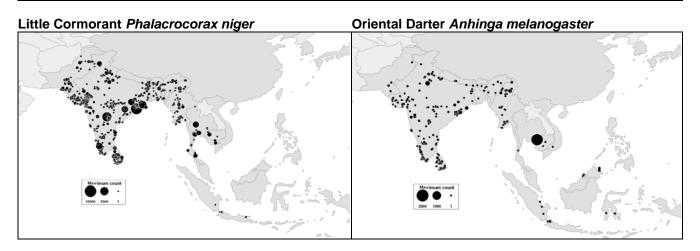
Spot-billed Pelican Pelecanus philippensis VU





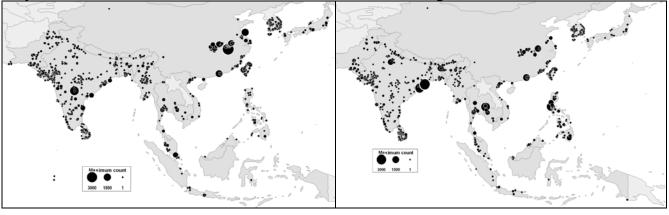


Great Cormorant Phalacrocorax carbo

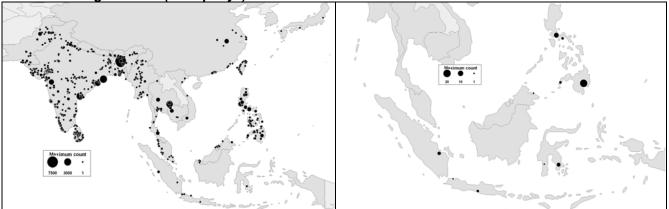


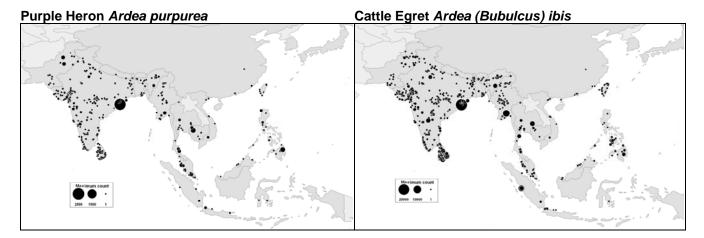
Grey Heron Ardea cinerea

Eastern Great Egret Ardea modesta



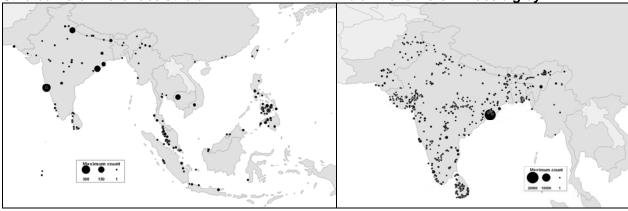




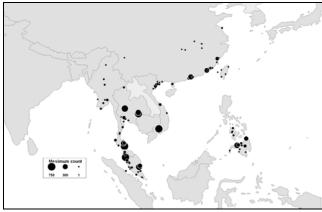








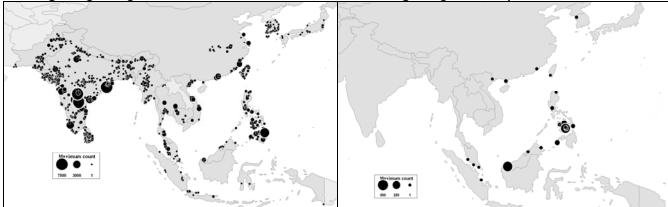
Chinese Pond-Heron Ardeola bacchus



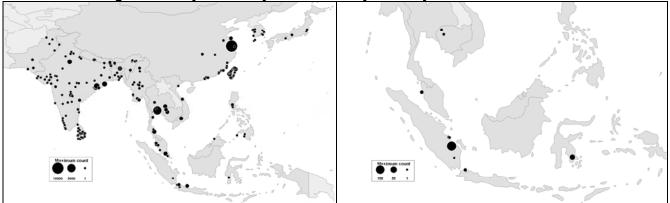
Little Egret Egretta garzetta

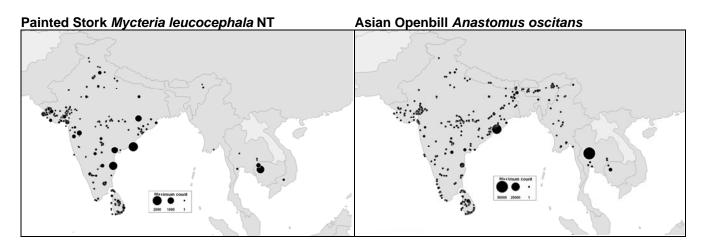


Chinese Egret Egretta eulophotes VU

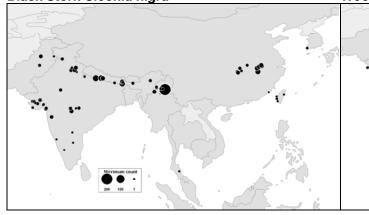


Black-crowned Night-Heron Nycticorax nycticorax Milky Stork Mycteria cinerea VU



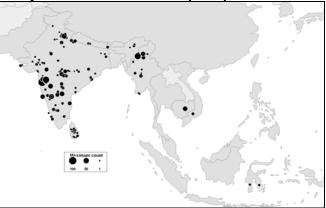


Black Stork Ciconia nigra



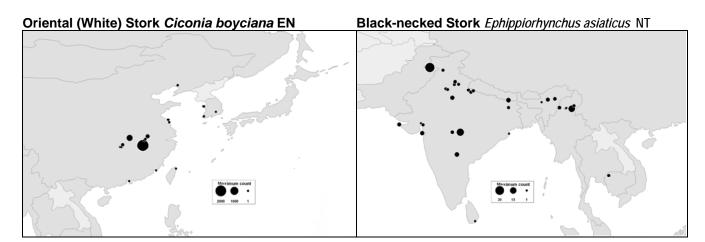
Storm's Stork Ciconia stormi EN

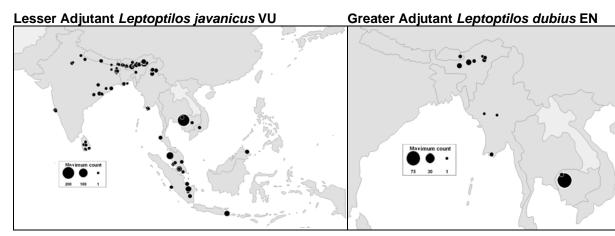
Woolly-necked Stork Ciconia episcopus



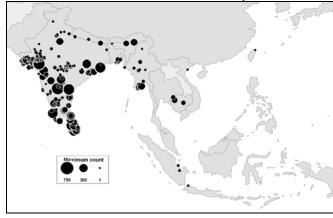
Eurasian White Stork Ciconia ciconia







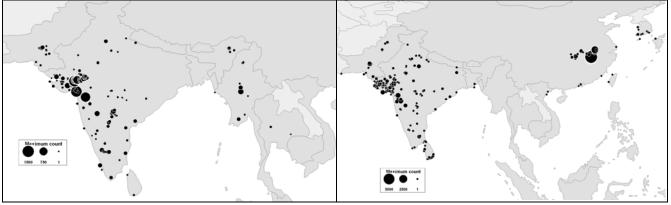
Black-headed Ibis Threskiornis melanocephalus NT

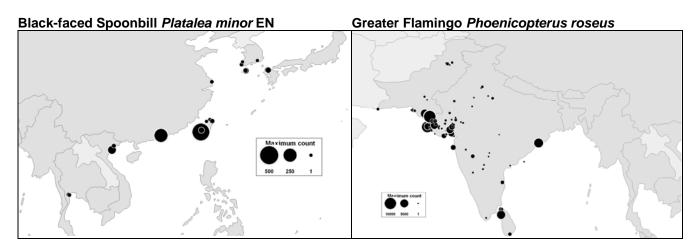


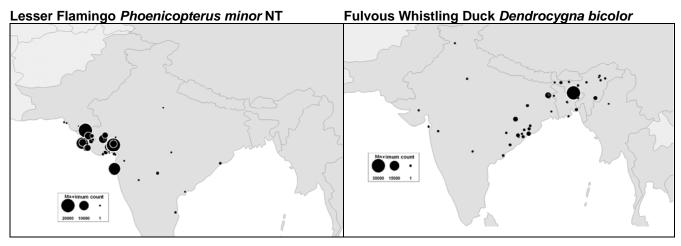
Glossy Ibis Plegadis falcinellus



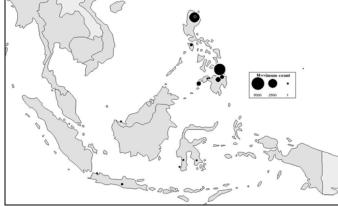




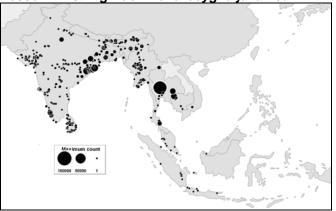




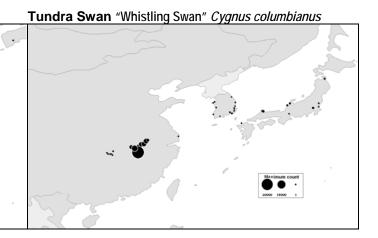
Wandering Whistling Duck Dendrocygna arcuata

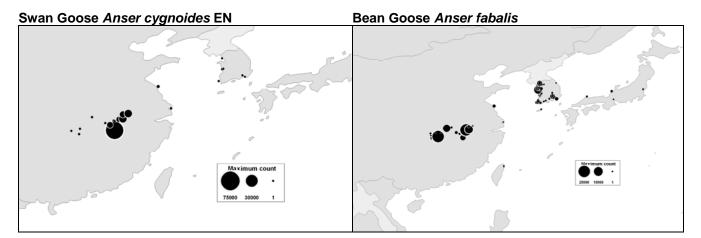


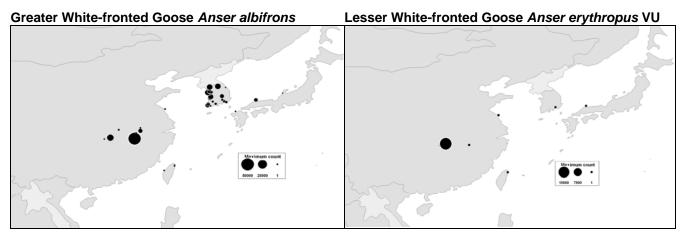
Lesser Whistling Duck Dendrocygna javanica



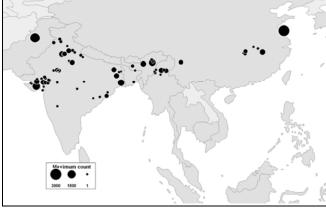
Whooper Swan Cygnus cygnus





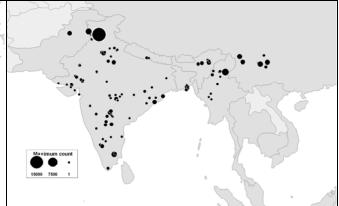


Greylag Goose Anser anser









Brent Goose Branta bernicla



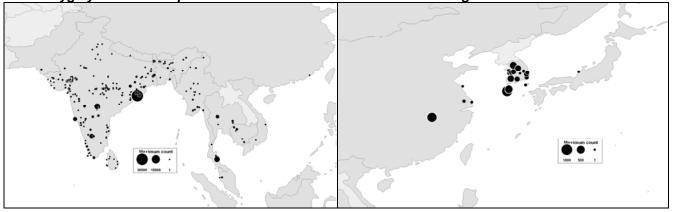
Rudy Shelduck Tadorna ferruginea Common Shelduck Tadorna tadorna





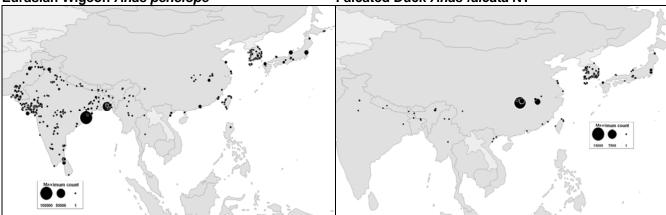


Cotton Pygmy-Goose Nettapus coromandelianus Mandarin Duck Aix galericulata



Eurasian Wigeon Anas penelope



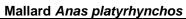


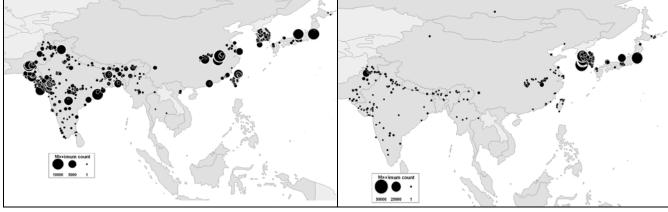






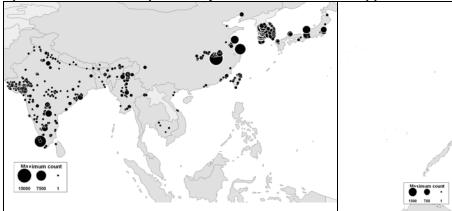






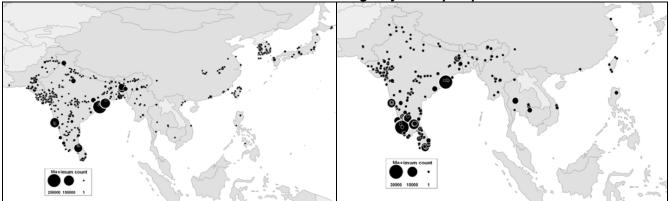
Spot-billed Duck Anas poecilorhyncha





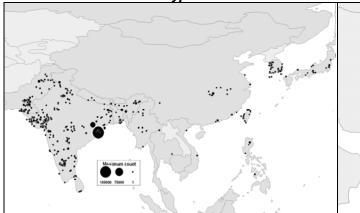
Northern Pintail Anas acuta

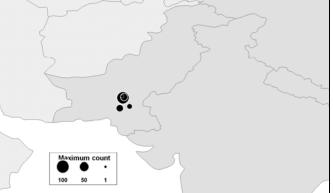
Garganey Anas querquedula



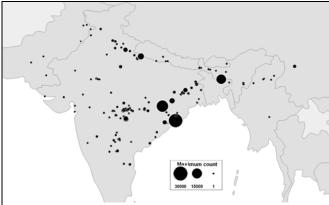
Northern Shoveler Anas clypeata

Marbled Teal Marmaronetta angustirostris VU









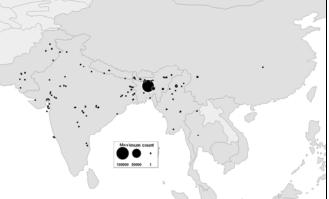
Baer's Pochard Aythya baeri VU



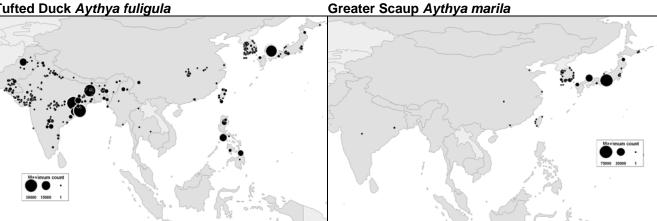


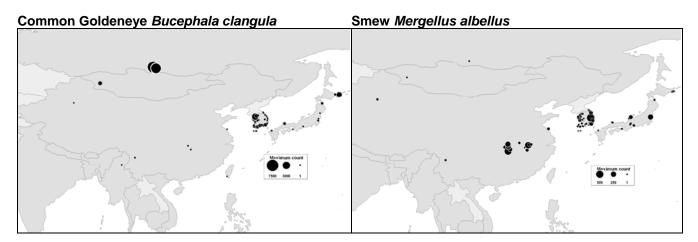
Ferruginous Duck Aythya nyroca NT





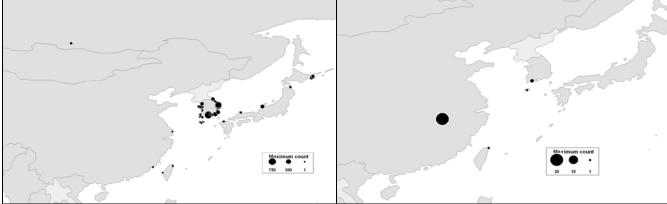
Tufted Duck Aythya fuligula



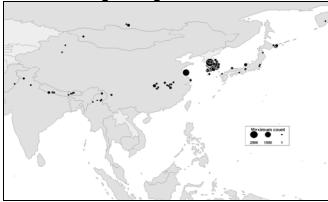




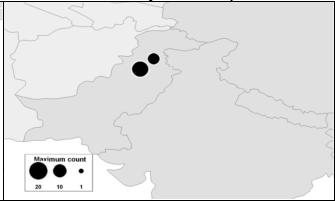
Scaly-sided Merganser Mergus squamatus EN



Goosander Mergus merganser



White-headed Duck Oxyura leucocephala EN

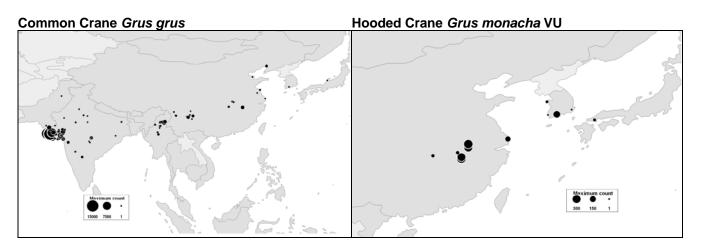


Demoiselle Crane Grus virgo



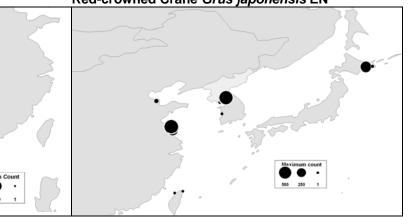


Sarus Crane Grus antigone VU White-naped Crane Grus vipio VU

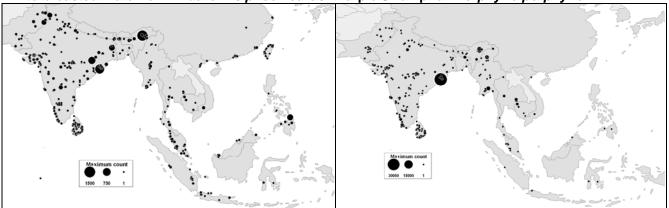


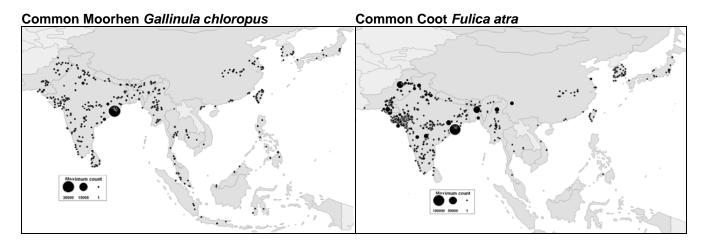
Black-necked Crane Grus nigricollis VU

Red-crowned Crane Grus japonensis EN



White-breasted Waterhen Amaurornis phoenicurus Purple Swamphen Porphyrio porphyrio





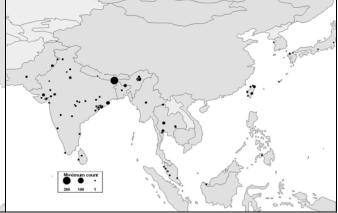






Bronze-winged Jacana Metopidius indicus

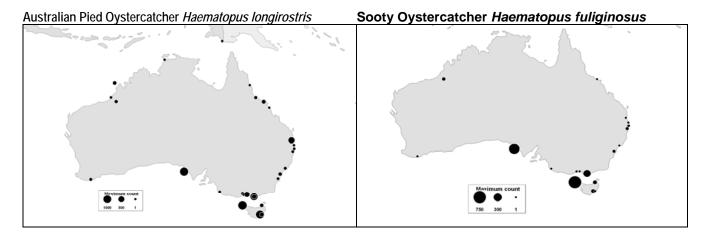
Greater Painted-Snipe Rostratula benghalensis

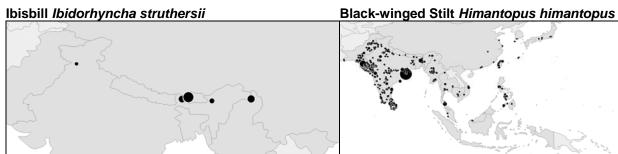






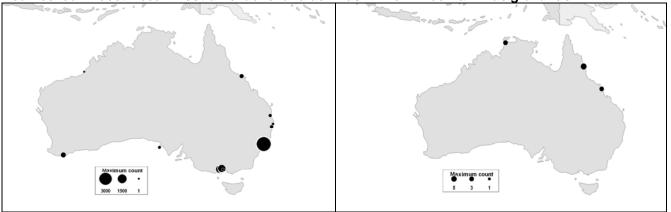






Banded Stilt Cladorhynchus leucocephalus Pied Avocet Recurvirostra avosetta

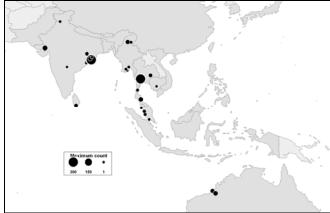
Red-necked Avocet Recurvirostra novaehollandiae Bush Thick-Knee Burhinus grallarius NT



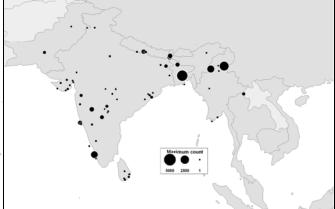
Great Thick-Knee Burhinus (Esacus) recurvirostris Beach Thick-Knee Burhinus gigantea (Esacus magnirostris) NT



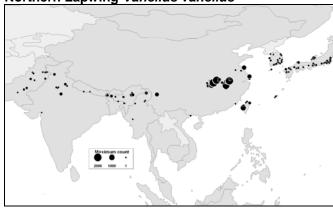
Oriental Pratincole Glareola maldivarum



Small Pratincole Glareola lactea

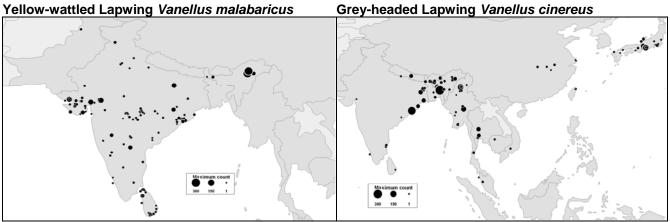


Northern Lapwing Vanellus vanellus

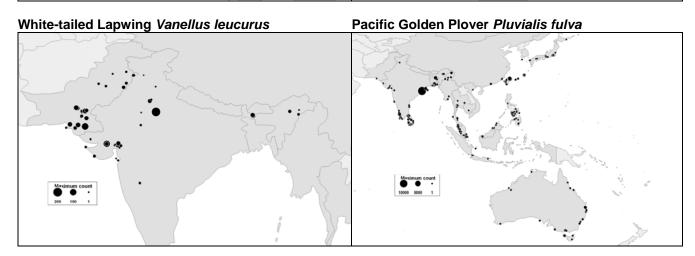


River Lapwing Vanellus duvaucelli

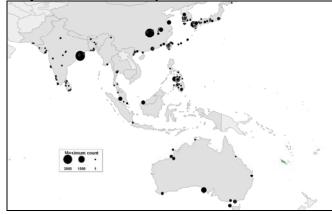




Red-wattled Lapwing Vanellus indicus Sociable Lapwing Vanellus gregarius CR

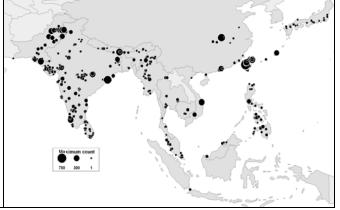


Grey Plover Pluvialis squatarola

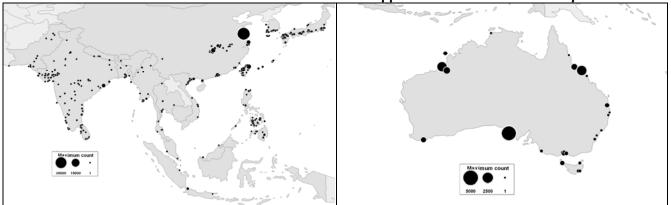


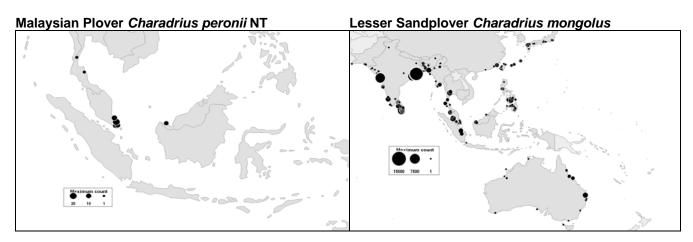
Kentish Plover Charadrius alexandrinus



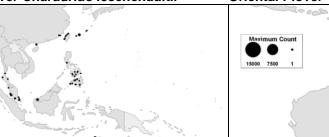








Greater Sandplover Charadrius leschenaultii

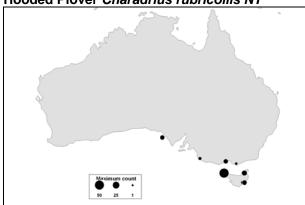


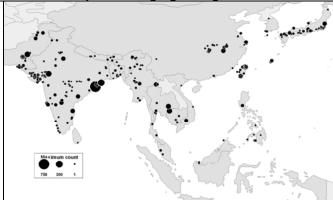




Hooded Plover Charadrius rubricollis NT

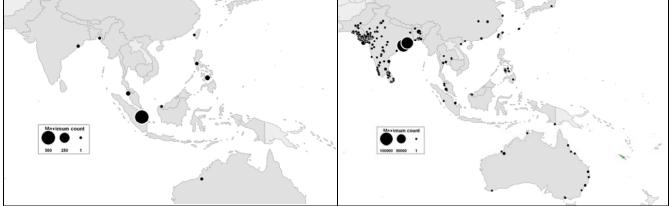


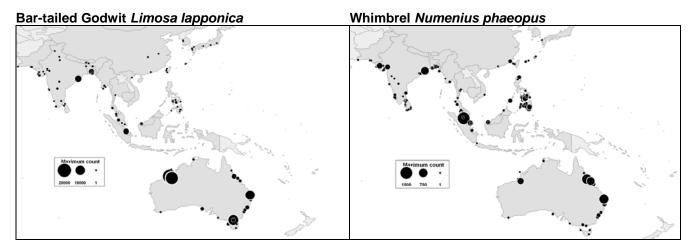


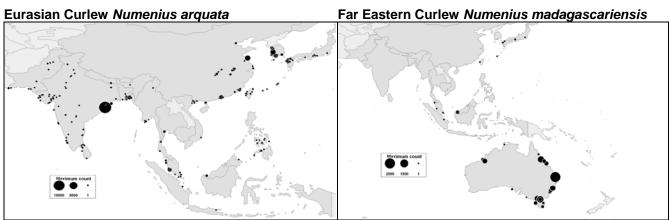


Asian Dowitcher Limnodromus semipalmatus NT



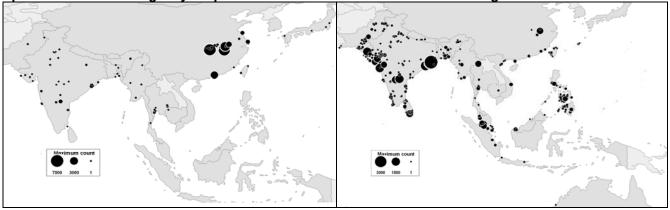




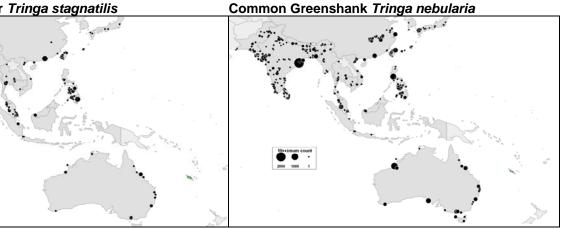


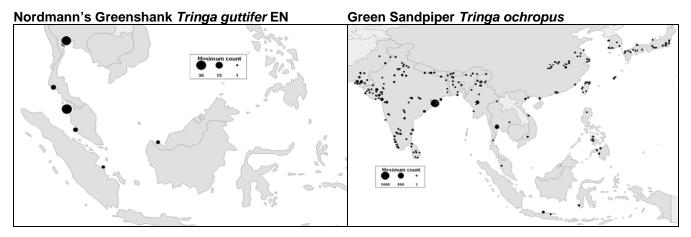
Spotted Redshank Tringa erythropus

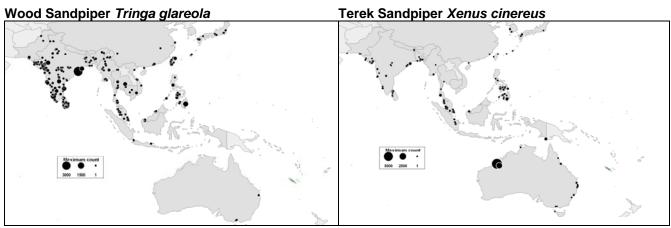




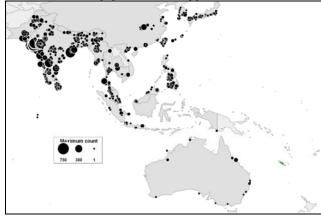
Marsh Sandpiper Tringa stagnatilis





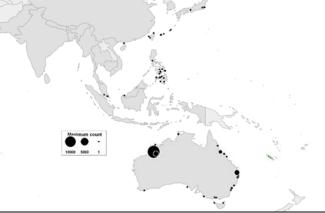


Common Sandpiper Actitis hypoleucos

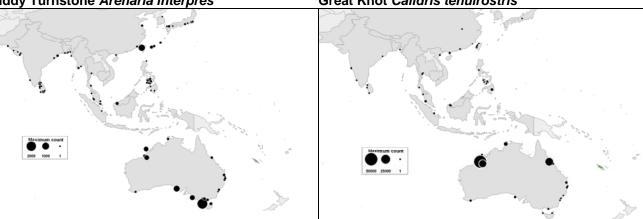


Ruddy Turnstone Arenaria interpres



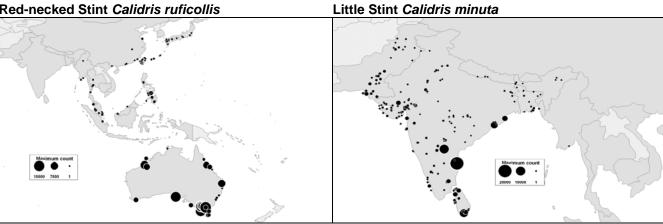


Great Knot Calidris tenuirostris

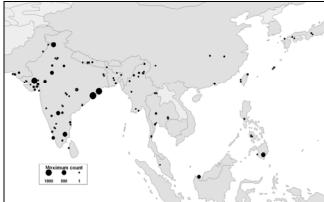


Red Knot Calidris canutus Sanderling Calidris alba



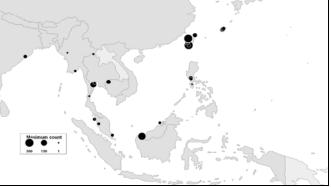


Temminck's Stint Calidris temminckii

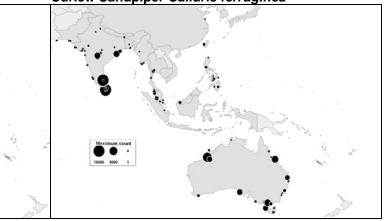


Sharp-tailed Sandpiper Calidris acuminata



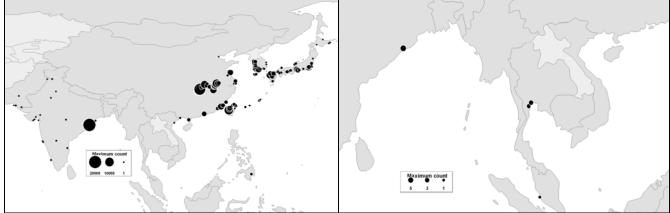




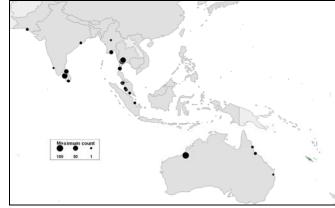


Dunlin Calidris alpina

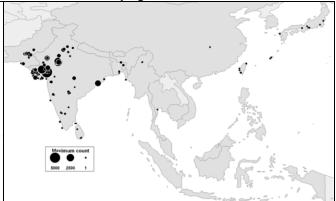
Spoon-billed Sandpiper Eurynorhynchus pygmeus EN



Broad-billed Sandpiper Limicola falcinellus



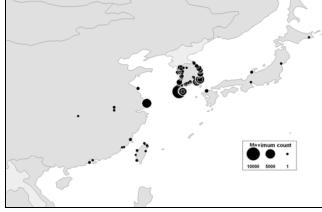
Ruff Philomachus pugnax

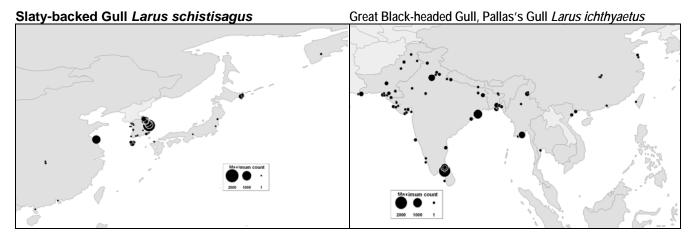


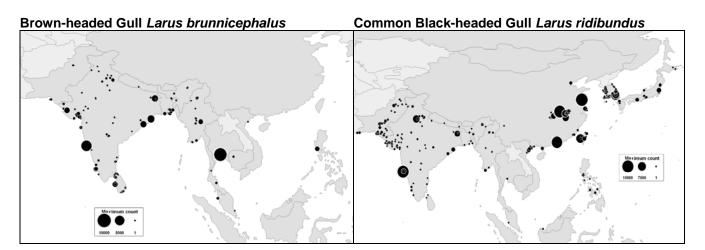
Black-tailed Gull Larus crassirostris



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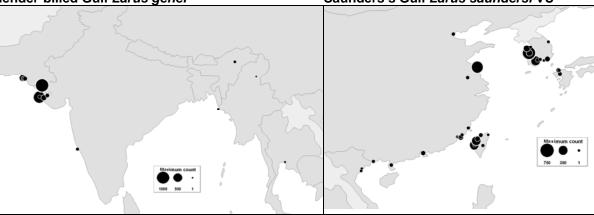




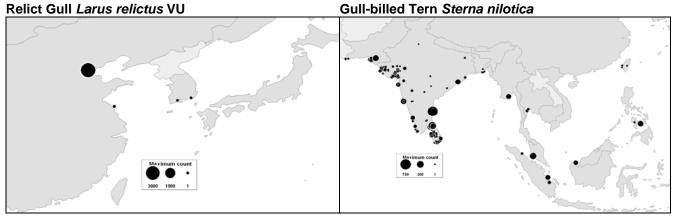


Slender-billed Gull Larus genei

Saunders's Gull Larus saundersi VU

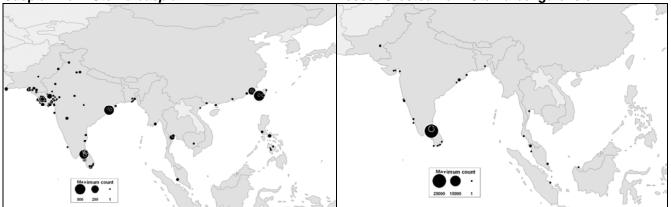


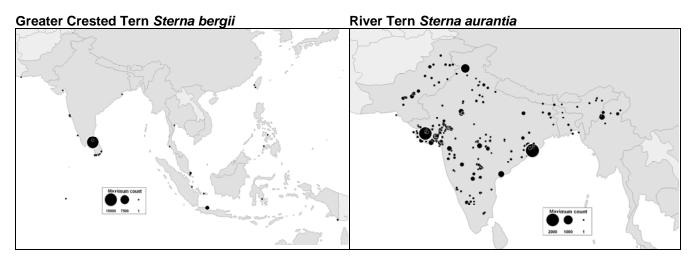
Relict Gull Larus relictus VU





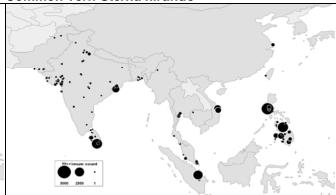
Lesser Crested Tern Sterna bengalensis



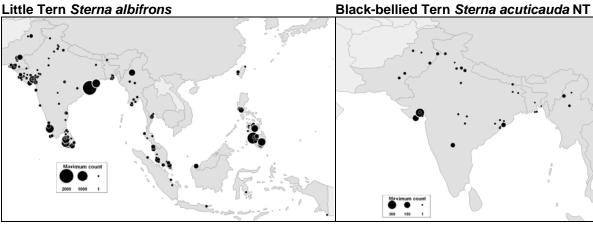




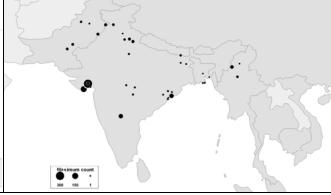
Common Tern Sterna hirundo



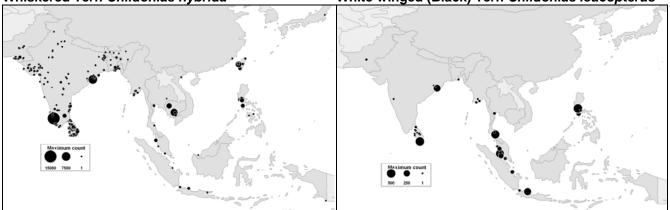
Little Tern Sterna albifrons

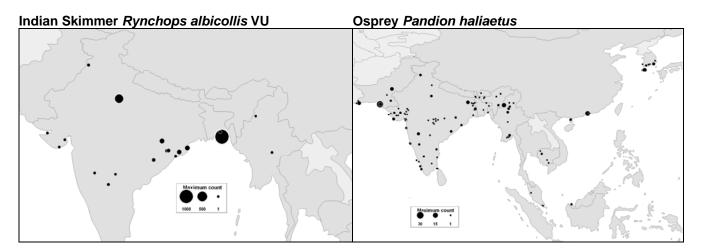


Whiskered Tern Chlidonias hybrida



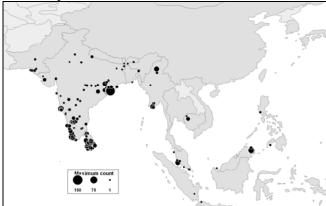
White-winged (Black) Tern Chlidonias leucopterus











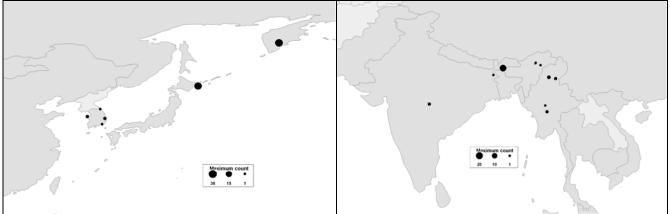
Pallas's Fish-eagle Haliaeetus leucoryphus VU

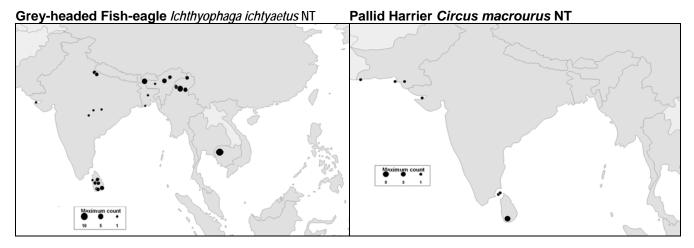




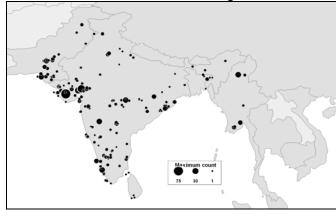




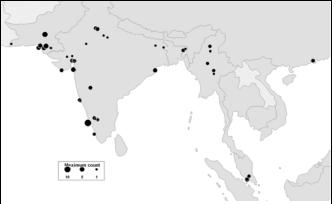




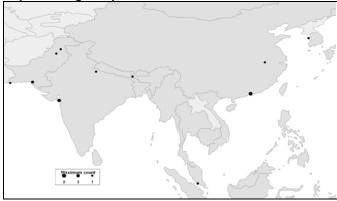
Western Marsh Harrier Circus aeruginosus



Greater Spotted Eagle Aquila clanga VU

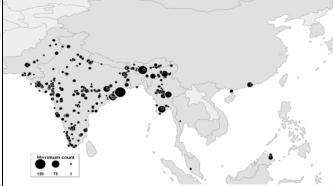


Imperial Eagle Aquila heliaca VU

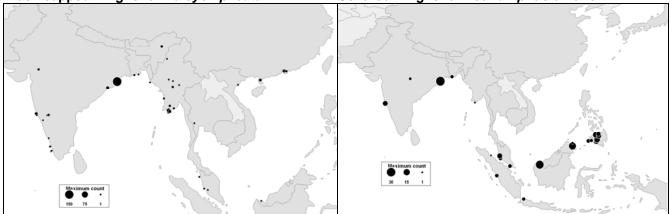


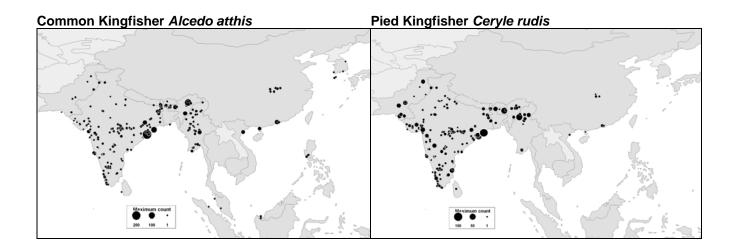
Black-capped Kingfisher Halcyon pileata











4. Forward Planning

The Strategy for the Development of the Asian Waterbird Census: 2004–2006 (Wetlands International 2003), one of the major outcomes of the first AWC Coordinators' Meeting in 2003, provided a clear direction for the development of the AWC in the past three years.

In October 2006, the second AWC Coordinators' Meeting was held in Manila to review the implementation of the AWC strategy in 2004–2006 and the development of a long-term AWC strategy for the period 2007–2015. Although the success of the AWC has been achieved through enhanced site coverage and improved communication amongst AWC networks, it is recognised that there is a need to further improve coordination and communication, address variable and non-targeted site coverage, enhance support to networks and improve expertise.

The strategy for the development of the AWC during 2007–2015 focuses on seven objectives and 29 priority actions at the national and international levels.

Objective 1: To enhance geographic and site coverage of the AWC.

- Action 1: Establish contact with all countries in the Asia-Pacific region to ensure consistent participation in the annual census and regular sharing of information with the AWC.
 - Implementation plan 1: Encourage all countries to establish and maintain an effective national waterbird monitoring programme that can be linked to the AWC for a 'representative set of sites'. Stimulate action through communication, promote training, and, where needed, offer support to strategic fundraising efforts.
 - Implementation plan 2: Formalise data sharing arrangements with all countries to ensure that waterbird count data are submitted annually to the AWC regional database to support regional and international conservation efforts.
- Action 2: Strengthen national AWC coordination through the establishment of effective sub-national (state/provincial) AWC networks.

Implementation plan 3: Encourage countries to establish sub-national (state/provincial) AWC coordination networks.

Implementation plan 4: Strengthen communication with sub-national (state/provincial) AWC networks, including through the organisation of national AWC coordinators' meetings.

Action 3: Review and prepare an updated list of priority wetlands of national and international importance to be covered each year by the AWC.

Implementation plan 5: Endorse the BirdLife International publications on Important Bird Areas and Potential Ramsar Sites in Asia and internationally important sites as identified by the AWC 1997–2001 and AWC 2002–2004 reports as a basis for identifying a list of priority AWC sites for annual coverage, until a comprehensive priority site list for each country is produced (including Ramsar sites, Waterbird Network sites in the East Asian and Central Asian Flyway, World Heritage sites, MAB sites, and protected areas).

Implementation plan 6: In addition, encourage national networks to consider a more comprehensive list of sites of national and local importance for coverage by a wider network, which may be more useful for awareness raising and public participation efforts.

Objective 2: To ensure high quality of AWC data to achieve monitoring of waterbird populations and support for implementation of conservation actions.

Action 4: Review and prepare boundary maps for each site included in the priority list of important wetlands (Action 3) to be covered by the AWC, and make these available to all participants.

Implementation plan 7: Encourage preparation of site boundary maps for all priority sites as identified for cover by the census.

Implementation plan 8: Develop improved boundary maps for poorly defined sites to enable proper census activities:

- divide large sites or complexes into sub-sites
- combine small count units into clearly defined wetland areas,
 - define coastal wetlands with prominent natural boundaries/landmarks, such as rivers.

Implementation plan 9: Recognise that the boundaries of some sites will change as a result of natural and man-induced activities. Updating of site maps will need to remain a regular activity, to ensure that up-to-date boundary maps are available for use. Encourage use of GIS-based mapping that allows for changes to be incorporated.

Action 5: Ensure that the annual AWC counts are undertaken in January during the suggested period.

Implementation plan 10: Continue with January as the priority census period. Data gathered during December to February may still be acceptable from countries where AWC coverage is currently poor.

Implementation plan 11: Encourage countries and sites to conduct counts within the narrow timeframe determined for the AWC where possible.

Action 6: Undertake adequate planning and make arrangements to ensure annual coverage of all sites in the priority list (Action 3) and other important sites, and ensure that at least one experienced and reliable counter leads the census at each site.

Implementation plan 12: Increase recognition nationally of the high value of and need for consistent coverage of important sites for effective functioning of national and international waterbird and wetland monitoring programmes.

- Implementation plan 13: Undertake detailed planning to involve participants, especially those in the developing countries, to ensure that all priority sites are covered and high quality data are collected.
- *Implementation plan 14:* Expand the participation of related agencies, institutions, bird organisations and groups in the AWC.
- Action 7: Ensure effective mechanisms for national (and sub-national) coordination, including collection of all standardised data forms in a timely manner after the census.

Implementation plan 15: Ensure timely data collection from participants and coordinators by the end of February.

Implementation plan 16: Develop methods to remind and encourage timely data submission.

Action 8: Coordinators to undertake a quality check of the content of count information.

Implementation plan 17: A thorough checking system of the national AWC data will be developed to ensure that data quality issues (including identification of duplicate counts, unusually high species counts, unusual records of species and addition of site codes) can be addressed within the national programme.
Implementation plan 18: All National Coordinators will review the validity and timeliness of data submitted to the database with Wetlands International.
Implementation plan 19: Sub-national Coordinators will perform this primary function before submitting data to National Coordinators.
Implementation plan 20: Hold regular meetings among experienced network members (post- counting) to evaluate national implementation of the AWC.

Action 9: Promote use of standardised AWC count and site forms and census techniques in all countries.

Implementation plan 21: Undertake a review of the regional AWC forms with National Coordinators to ensure that the forms are up to date, especially in relation to taxonomic status of waterbird species.
 Implementation plan 22: Send updated AWC count and site forms to National Coordinators in November/December to enable them to prepare for the AWC.
 Implementation plan 23: For non-English speaking countries/territories, the National Coordinator will make forms available in the national language.

Action 10: Promote the use of standardised AWC database programmes in all countries and at the international level to ensure timely and efficient transmission of data.

Implementation plan 24: Ensure efficient national data analysis and reporting as well as timely and rapid transmission of data through the use of a user-friendly AWC database system in all countries.
 Implementation plan 25: Provide/facilitate training for national (and sub-national) coordinators in the use of the AWC database system where required.
 Implementation plan 26: Develop an online data-entry system.

Action 11: Ensure that national census data or databases are submitted by National Coordinators to Wetlands International by the end of April each year.

Implementation plan 27: National coordinators need to improve data collection and reporting mechanisms to meet this deadline.

Action 12: Support volunteers in data collection, including providing participation guidelines and support logistics, identification guides and equipment.

Implementation plan 28: Promote the manual on AWC count-method guidelines for national and international application.

Implementation plan 29: Conduct regular training and develop more materials with support from developed countries.

Implementation plan 30: Develop secure funding resources from local and national sources (including purchase of field guides and equipment) to sustain the efforts of AWC volunteers and bird watching groups.

Action 13: Encourage countries to conduct a census at other times of year (for example during the northward migration, summer period or southward migration) or make monthly counts and submit data to Wetlands International to be included in the AWC database.

Implementation plan 31: Promote censusing at other seasons or make monthly counts, especially where there is willingness to initiate and sustain these.

Implementation plan 32: Wetlands International will develop and distribute guidelines (a protocol) for additional censuses to be implemented by countries according to their capacity.

Action 14: Encourage and strengthen IUCN/SSC/WI waterbird specialist groups in the Asia-Pacific through increasing awareness about the groups, identifying potential members, and devising mechanisms to improve data quality.

Implementation plan 33: Raise awareness of the existence of the specialist groups at the national/local level. Implementation plan 34: Identify and involve interested individuals in taking the lead on single species/groups of waterbirds at the local/national level.

Objective 3: To enhance communication and public awareness on the AWC.

Action 15: Undertake activities to strengthen co-ordination amongst coordinators, review and plan activities through regular communication and through the organisation of regular meetings.

Implementation plan 35: Establish an e-forum/list server for discussion and information exchange. Implementation plan 36: Continue to organise the AWC Coordinators' Meeting every three years. Smaller-scale regional meetings with similar interests and issues maybe conducted as opportunities arise.

- *Implementation plan 37:* National coordinators may recommend a contact person to ensure timely communication.
- Action 16: Review the effectiveness of current national co-ordination and communication methods to enhance the national networks.

Implementation plan 38: International and National Coordinators continue the current effort and improve communication.

Implementation plan 39: Communication amongst national networks will be improved through email discussion groups, national reports and newsletters.

Action 17: Maintain an up-to-date AWC website and produce the biannual regional newsletters to enhance communication and public awareness.

Implementation plan 40: Re-design and improve access to the AWC website. Implementation plan 41: Countries will provide regular updates and input to the AWC regional website and newsletters.

Action 18: Develop an awareness programme for the public to improve their knowledge about the value of the census and the importance of conservation of wetlands and their biodiversity, particularly waterbirds.

Implementation plan 42: National coordinators need to ensure that they link their websites to AWC information/newsletters (or other websites) to increase the profile.
 Implementation plan 43: Promote AWC activities and outputs through newspaper articles (in national and English languages), newsletters, TV and other media.
 Implementation plan 44: Incorporate AWC and waterbird conservation issues into existing education programmes, project activities and World Wetlands Day events to extend outreach, and through regional/national AWC reports.
 Implementation plan 45: Develop translated versions of the AWC report and awareness materials in countries where English is not widely used.

Objective 4: To build the capacity of national networks to monitor waterbirds and wetlands.

Action 19: Develop a training programme to improve knowledge and skills to coordinate the AWC volunteer network and undertake the census. Identify individuals and agencies in the region with the resources and skills to offer help.

Implementation plan 46: National and Sub-national Coordinators conduct waterbird census training programmes, and where possible incorporate these within habitat and species conservation training programmes.

Implementation plan 47: National coordinators are encouraged to seek funding support for national training.

Implementation plan 48: Wetlands International should support/promote national fund-raising efforts and provide strategic support for training activities.

Action 20: Conduct national training activities for participants to enhance counting and identification capacity and skills.

Implementation plan 49: Continue to encourage national training courses/workshops (timing of training linked to the count period).
 Implementation plan 50: Develop training activities through regional initiatives such as flyway initiatives and large wetland projects.
 Implementation plan 51: Encourage international support and participation in national training programmes.
 Implementation plan 52: Translate and distribute IWC manuals for coordinators and participants.

Objective 5: To develop a fundraising strategy for the AWC and seek funding opportunities to support its development.

Action 21: Develop and implement a fundraising strategy, based on a review of the critical funding requirements for maintenance and development of the AWC.

Implementation plan 53: National coordinators should incorporate core funding needs for the AWC into the fund-raising planning of their host organisations.
 Implementation plan 54: Develop collaborative funding proposals to support census activities in developing countries (NGOs in developed countries to assist developing countries).
 Implementation plan 55: Maintain and update a list of concept proposals that covers critical funding requirements for the development of the AWC for fund raising at national and international levels.

Action 22: Identify funding opportunities and resources for fund-raising for priority actions at the regional/national/local level to strengthen national networks to implement the AWC.

Implementation plan 57:	National coordinators maintain and update a list of funding resources. Engage broad international support (such as through bilateral sources, regional environmental and flyway programmes) for waterbird conservation/monitoring needs.
	Build NGO–government relationships to secure long-term government funding for annual/regular counts with a focus on support of national conservation efforts, such as nomination and monitoring of Ramsar sites and other important areas.
	Develop corporate and private-sector sponsorships through promoting widespread interest in bird watching, counting and photography, through, for example, waterbird festivals.

Objective 6: To support improved decision making on waterbird and wetland conservation at national and international levels.

Action 23: Provide an effective mechanism to respond to the priorities and needs of environmental conventions, and regional organisations/initiatives (for example, Ramsar Convention, Convention on Migratory Species, Convention on Biological Diversity, East Asian – Australasian Flyway Partnership, Central Asian Flyway initiative, Conservation of Arctic Flora and Fauna, ASEAN and South Asian Cooperative Environmental Programme) in the Asia-Pacific region on monitoring the status of waterbirds and wetlands.

Implementation plan 60: Improve the reporting system including making recommendations to international data users to promote the value of the AWC. Implementation plan 61: Integrate AWC reports into the information bases and decision-making processes of international conventions/initiatives.

Action 24: National coordinators to report proactively on the status of waterbirds and wetlands in their countries to national conservation and development agencies, national Ramsar committees and other data users.

Implementation plan 62: All countries should produce national reports on an annual basis. Reports should also be produced on CD-ROMs or on websites to increase access and publicity.

Implementation plan 63: Distribute AWC results, analyses and conservation recommendations to government agencies and institutions.

Implementation plan 64: Encourage use of AWC data for

- protected area nominations,
 - international designations (including Ramsar, World Heritage and Flyway Site Networks), IBA programmes; other bird conservation network activities;
 - National Biodiversity Strategy and Action Plans (NBSAP) prepared by governments for the Convention on Biological Diversity; and
 - implementation of resolutions of the Ramsar Convention and CMS and other regional commitments.

Implementation plan 65: Promote data sharing mechanisms with national and local organisations to support waterbird and wetland conservation efforts.

Implementation plan 66: Hold national workshops to review/assess waterbird counts, data and applicability to conservation involving governments, NGOs, academics, etc.

Action 25: Produce AWC regional reports and other products to promote waterbird and wetland conservation initiatives and as feedback for the AWC volunteers.

Implementation plan 67: Develop and update a web-based AWC regional reporting system.
 Implementation plan 68: Publish a list of sites of international importance that have been identified in the 20 years (1987–2006) over which the AWC has been held.
 Implementation plan 69: Conduct analyses of population trends on waterbird populations.
 Implementation plan 70: Produce and update flyway atlases based on the AWC and related information.

Action 26: Ensure timely provision of AWC data and related information to the development and review of estimates of waterbird populations to feed into the *Waterbird Population Estimates* and Globally Threatened Birds updates.

Implementation plan 71: Generate and regularly review national waterbird population estimates. Implementation plan 72: Provide updated data to Waterbird Population Estimates and Globally Threatened Birds updates.

Objective 7: To develop a coordination mechanism for effective operation and targeting of the AWC

Action 28: Establish a mechanism to review the development of the AWC.

Implementation plan 73: Use a series of AWC Coordinators' Meetings to review directions and strategies at the international level on a triennial basis.
 Implementation plan 74: Use the list server and encourage regular national meetings to promote and stimulate the implementation of the AWC Strategy.
 Implementation plan 75: Encourage countries to develop national implementation plans for the AWC 2007–2009 period.

Action 29: Review implementation of the Strategy.

Implementation plan 76: The Strategy will run over nine years and is to be reviewed triennially.

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Appendix

List of Coordinators, 2002–2004

Country/Region	Name	Organisation
Australia	Ms. Jenny Skewes	Australasian Wader Studies Group
Bangladesh	Mr. Enam UI Haque	Bangladesh Bird Club
Brunei	Dr. Pushpa Thambipillai	Brunei Darussalam University
Brandi	Prof. Joe Charles	
Cambodia	Mr. Hong Chamnan	Wildlife Conservation Society – Cambodia
Carriboala		Program
China		
Mainland China	Attn: Mr. Xu Qiang	Wetlands International – China Office
Hong Kong	Mr. Yu Yat Tung	Hong Kong Bird Watching Society
Taiwan	Dr. Woei-Horng Fang	Wild Bird Federation Taiwan
Indonesia	Mr. Yus Rusila Noor	Wetlands International – Indonesia Office
India	Dr. Asad Rahmani	Bombay Natural History Society
	(National Coordinator)	Dombay Natural History Cocicity
	Mr. S. Sridhar (Karnataka)	Institute for Natural Resources Conservation,
		Education, Research and Training (INCERT)
	Mr. Gurmeet Singh (Punjab)	Wildlife Punjab
	Mr. Siraj A. Taher (Andhra Pradesh)	Birdwatchers Society of Andhra Pradesh
	Mr. Rakesh Vyas (Rajasthan)	Birdwatchers Society of Andria Fradesh
	Mr. Heinz Lainer (Goa)	
	Dr. P.O. Nameer (Kerala)	Kerala Agricultural University
	Dr. U.N. Dev (Orissa)	Bihang Institute for Ornithology and Mass
	Prof. P.C. Bhattacharaya (Assam)	Eco-Development (BIOME)
	Mr. Romesh Ladkedkar	Gauhati University Vidharbha Natural History Society
	(Maharashtra)	Viuliai bila Naturai History Society
	Dr. Anwaruddin Chowdhury (Assam)	
		Madraa Naturalista Sasisty
	Mr. M. Raghuraman (Tamil Nadu)	Madras Naturalists Society
	Lt. Col. (Retd.) Shakti Baneerjee	WWF – India, Eastern Region
	(West Bengal)	Liniversity of Agricultural Sciences
	Dr. S. Subramanya (Karnataka)	University of Agricultural Sciences
	Dr. Rajiv Kalsi (Haryana)	Department of Zoology
	Dr. Arun Kumar (Uttarakhand)	Zoological Survey of India
	Dr. B.M. Parasharya (Gujarat)	Bird Conservation Society, Gujarat
Japan	Mr. Hiroo Amano	Aichi Chapter of Wild Bird Society of Japan
Republic of Korea	Dr. Jin-Han Kim	National Institute of Environmental Research
Malaysia	Mr. Yeap Chin Aik	Malaysian Nature Society
Myanmar	Ms. Siti Hawa Yatim	Department of Wildlife and National Parks
	Mr. Anthony Sebastian (East Malaysia)	Malaysian Nature Society – Kuching Branch
	Mr. Thet Zaw Naing	Myanmar Bird and Nature Society
	Mr. Thein Aung	Nature and Wildlife Conservation Division,
		Forest Department
Nepal	Dr. Hem Sagar Baral	Bird Conservation Nepal
Pakistan	Dr. Abdul Aleem Chaudhry	Punjab Wildlife Department
	Mr. Munir Awan	Sindh Wildlife Department
The Philippines	Mr. Carlo Custodio	Protected Areas and Wildlife Bureau
Singapore	Mr. Lim Kim Keang	Singapore Nature Society
Sri Lanka	Mr. Udaya Sirivardana	Ceylon Bird Club
	Mr. Deepal Warakagoda	
Thailand	Mr. Petch Manopawitr	Bird Conservation Society of Thailand
Vietnam	Mr. Nguyen Duc Tu	BirdLife International – Vietnam Programme

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- The Asian Waterbird Census (AWC), conducted each year in January, is a waterbird and wetland monitoring programme initiated in 1987 within the framework of the International Waterbird Census.
- This report summarises the results of the AWC in 2002, 2003 and 2004, comprising counts at 2,032 sites in 22 countries. Of these sites, 459 met the criteria for international importance by recording either more than 20,000 waterbirds or 1% of the population of at least one species.
- Seventy-nine Ramsar Sites, 36 Migratory Waterbird Network Sites in the East Asian - Australasian Flyway and 280 Important Bird Areas were covered.
- Totals of 274 waterbird species and 61 wetland-dependent species were recorded during this period, with nearly 8 million waterbirds recorded each year.
- Brief status accounts, accompanied by 202 maps, are presented for 211 species, including 42 Globally Threatened species and 19 Near Threatened species.

The AWC is supported by a network of volunteers and coordinated by the following organisations in countries which work closely with Wetlands International.



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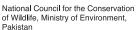
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