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THE IMPORTANT BIRD AREAS PROGRAMME IN INDIA

by

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ENVIS (Environmental Information System) is a network of subject specific nodes located in various institutions throughout the country. The Focal Point of the present 25 ENVIS centres in India is at the Ministry of Environment and Forests, New Delhi, which further serves as the Regional Service Centre (RCS) for INFOTERRA, the global information network of the United Nations Environment Programme (UNEP) to cater to environment information needs in the South Asian sub-region. The primary objective of all ENVIS centres is to collect, collate, store and disseminate environment related information to various user groups, including researchers, policy planners and decision makers.

The ENVIS Centre at the Bombay Natural History Society was set up in June 1996 to serve as an ENVIS Centre for Avian Ecology and Inland Wetlands.

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Foreword

India has the distinction of being one of the world's most biodiverse regions. However, anthropogenic pressures have resulted in a rapid loss of its biodiversity. Only just over 4.6% of its landmass is under the protected areas network, and these too are fraught with pressures that are causing their deterioration. Our population of *Homo sapiens* has gained the dubious distinction of touching the one billion mark and is still growing incessantly, devouring natural habitats and wildlife in the process.

Consumption patterns have changed and levels have increased dramatically and we have increased the already immense pressure on our natural resources many fold. As habitats succumb to all the above factors, many more species join the rapidly growing list of globally threatened species in their steady march to extinction.

Urgent efforts are needed to stem this loss. The Important Bird Areas (IBA) programme is one such effort. Being a site-based approach it aims to identify, document and advocate the protection of a network of sites crucial to the long-term conservation of wild bird species. The IBA programme also involves networking between different organisations and individual partners of the Indian Bird Conservation Network and its partners. It has provided and will continue to provide capacity building support to other organisations involved in conservation to enhance their effectiveness. The programme is just one of the many tools needed to identify crucial sites for conservation and to stem the rapid loss of biodiversity.

This special issue of the ENVIS Bulletin is an attempt to create widespread awareness about IBAs and encourage individuals and institutions to participate in the programme. The IBA site list is regularly updated and we hope that this Bulletin will encourage readers to identify and advocate the protection of IBAs in their areas.

Asad R. Rahmani Director, BNHS

THE IMPORTANT BIRD AREAS (IBA) PROGRAMME

Principal Investigator: Asad. R. Rahmani

Supriya Jhunjhunwala, Farah Ishtiaq, Zafar-ul Islam

INTRODUCTION

India ranks amongst one of the most biodiverse countries in the world. Currently 1220 species of breeding, staging and wintering birds, occupying a wide array of natural, semi natural and urban habitats are known from India (Manakadan & Pittie 2001).

Conservation has always been a part of India's tradition. A wide network of 75 national parks, 447 wildlife sanctuaries, 22 Project Tiger areas and 8 biosphere reserves have been set aside to conserve its wildlife, covering about 4.6% of the country's land area. Besides this, there are vast areas that do not have legal status as national parks or sanctuaries, but are home to a large proportion of India's biodiversity.

The impact of people and unsustainable development practices is, however, seen on these areas, so much so that many habitats and animal and plant species which depend on them have become severely threatened and are disappearing rapidly.

A significant proportion of bird species can be effectively conserved by the protection of key sites, either as officially protected areas (national parks and sanctuaries) or through the promotion of sustainable land use practices.

Extinction rates far higher than normal background rates are resulting in rapid loss of biodiversity. By losing species we are losing potential contributors to future food and medicine and valuable links in natural and biological cycles. Although extinction is a natural process, fossil records show that on an average only one bird species dies out every 100 years. During the last 200 years the rate of extinction has been at least 40 times greater than this. One bird in eight could join the extinction list in the next century. The main causes of extinction are habitat loss and habitat degradation. Changes in land use patterns have had a detrimental impact on habitats, which have been fragmented and reduced in extent and diversity. This has resulted in a marked reduction in abundance and range of several bird species (BirdLife International 2001).

Seventy-nine Indian bird species are globally threatened with extinction. Of these 9 are listed as Critical, 10 species as Endangered, 57 are Vulnerable, 2 are conservation dependent and 1 is data deficient. A further 52 are classified as Near Threatened (BirdLife International 2001). A large proportion of the rest of the bird species in India are rapidly declining and are in urgent need of conservation action.

THE IMPORTANT BIRD AREAS PROGRAMME

An effective way to save birds is to save the places where they live; the identification of such representative habitats is carried out through the Important Bird Areas Programme of BirdLife International, BirdLife International is a partnership of organisations working for the conservation of birds and their habitats and through these the diversity of all life. The Bombay Natural History Society [BNHS] is the BirdLife Partner Designate in India and is coordinating the programme in India. The Indian IBA Programme is being funded by the Royal Society for the Protection of Birds [RSPB], the BirdLife Partner in the United Kingdom.

IBAs are sites of international significance for bird conservation. They are part of a wider, integrated approach to conservation that embraces site, species and habitat protection and will be used to reinforce the existing protected areas network. They will contribute to the conservation of biodiversity, as sites which are rich in birds are also likely to be rich in other species.

The IBA Programme gathers, uses and disseminates information on key bird species and the sites that are important for them, through active participation of people. The IBA programme also tries to involve communities living in and around IBAs in their conservation

Aims

The IBA Programme aims to identify, document and advocate the protection and management of a network of sites that are important for the long-term viability of naturally occurring bird populations across the geographic range of those bird species for which a site-based approach is appropriate.

The IBA programme is producing inventories of internationally recognized sites vital for the conservation of birds. It will identify, document and protect a network of sites which covers all habitats and species. Given that



Sanjay Gandhi National Park IBAs protect and provide water and other natural resources

birds are good indicators of overall biological diversity, most IBAs will also be important for other animals and plants. The IBA programme aims to identify and promote the protection of networks of key sites for the conservation of birds and other biodiversity in all regions of India.

The aims of the IBA Programme include to:

- Contribute in the development of national conservation strategies, highlight sites which are threatened or inadequately protected
- Help build regional and national networks of ornithologists and conservationists.
- Guide the work of international and national NGOs
 Influence global conventions, e.g. Biodiversity,
 Ramsar; etc.

The Indian IBA programme will also try to contribute in:

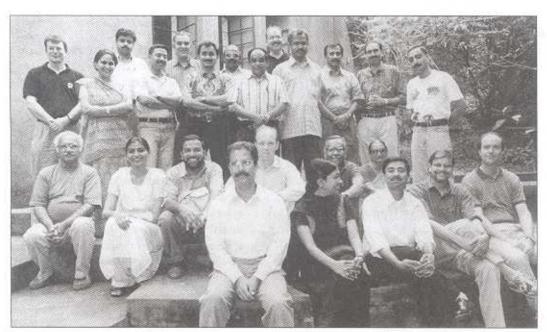
- Help identify high biodiversity areas
- Help identify future priorities for birds and biodiversity conservation action
- Provide decision makers with high quality biodiversity information for sustainable land and resource use
- Assist government in the implementation of international agreements such as the Convention on Biological Diversity

- Provide material for education and training
- Contribute to the National Biodiversity Strategy and Action Plan

Site based approach

The Important Bird Areas (IBA) Programme of BirdLife International is a worldwide initiative aimed at identifying and protecting a network of critical sites for the conservation of birds. The IBA programme is a site-based approach, which identifies sites of international importance for the conservation of birds and other biodiversity and collates and disseminates key information. Information availability of the importance and location of such sites is fundamental to the success of a site based conservation strategy.

Birds are one of the best-researched taxa in India and a fairly reliable indicator of biodiversity loss. Given that birds are good indicators of overall biological diversity, most IBAs will also be important for other animals and plants. A significant proportion of birds (and other animal and plant species) can be effectively conserved by the protection of key sites, either as official protected areas (national parks and reserves) with necessary and appropriate management, and or through the promotion of sustainable land-use practices (Mallari et al. 2001).



State Co-ordinators meeting Networking is essential for IBAs

THE SCOPE OF THE IBA PROGRAMME



Swamp Francolin Francolinus gularis

Site based approach may not be appropriate for widely dispersed bird species

The IBA Programme incorporates the conservation of species and the sites essential for their conservation. It therefore covers the entire country and a wide range of habitats.

Species

The programme not only covers the 79 globally Threatened birds in India (comprising of Critical Endangered, Vulnerable and Data Deficient and Conservation Dependent species) but also species that are endemic or have restricted ranges, congregatory birds and assemblages of species that are typical to a habitat or biome.

Habitats

As the programme covers a wide array of bird species, it also ranges across various habitats such as wetlands, islands, coastal areas, deserts, forests, grasslands and agricultural ecosystems.

Geographic range

The BNHS organised 9 regional workshops to identify IBAs for every state and union territory of India. With the exception of Daman and Diu, and Chandigarh, IBAs have been identified for all the states and union territories of India, including those like Meghalaya for which there was very little data.

Limitations of the IBA approach

- The IBA approach works only for those species for which a site-based approach is appropriate. Bird species with highly dispersed or nomadic distributions may not be protected through this approach. Some bird species are not well protected by the IBA approach (such as large raptors, cranes and bustards, which are dispersed at low densities across wide areas).
- For others, the IBAs might be appropriate only across some of their ranges or for parts of their life cycles,

(e.g. colonial nesting species that disperse extensively during the non-breeding season) (Barnes 1998).

- Any strategy for the long-term protection of biotic diversity should encompass evolutionary and biogeographic considerations. The IBA programme attempts to take this into account by selecting a network of sites that are spread through most habitats and in different areas of the species distributions. However, sub-specific variation was not taken into account. Any future assessment should attempt to include sites where different morphs and subspecies (particularly endemic and restricted range subspecies) are located (Barnes 1998).
- The IBA programme is just one approach to bird conservation. It is not the whole and the only answer. The IBA criteria are fairly stringent and many sites that are of undoubted local, provincial and national importance fail to qualify as IBAs. This does not mean that they are not important for conservation; on the contrary these sites often fulfill vital conservation roles at local scales. It must be emphasised that sites not designated as IBAs are not dispensable and their role in a wider land-use conservation strategy may be as vitally important as that of any IBA (Barnes 1998).

Methodology

IBAs are being identified using four standard global criteria, which cover sites that regularly hold significant populations of threatened birds listed as red data book (RDB) species; endemic birds i.e. birds with restricted ranges; bird communities consisting of species of birds that are more or less typical to certain biomes and sites where large congregations of birds gather. These criteria were applied through an exhaustive literature review and a process of consultation through workshops and meetings. Where gaps in information were found, surveys were commissioned to gather data.

IBA Criteria

IBA criteria cover sites that are internationally important for the 79 globally threatened species in India (bird species that fall in the Critical, Endangered, Vulnerable, Conservation Dependent or Data Deficient categories of the Asian Red Data Book, BirdLife International 2001). Near Threatened species have not been included in this analysis.

Sites were also selected for restricted range species or species unique to a small region. India has a total of 74 restricted range species of which 38 are confined to the geographic boundaries of the country, and 23 are globally threatened (Stattersfield et al. 1998).

Sites that support a species assemblage that are highly representative of a distinct biome and sites for migratory and terrestrial species which congregate in high numbers (Rose and Scott 1994).

The IBA criteria are simple and robust enough to be applied uniformly and cost effectively (Barnes 1998). The criteria ensure that the sites selected as IBAs have true significance for the international conservation of bird populations, and provide a common currency that all IBAs adhere to. This creates consistency and enables comparability between sites at national, continental and global levels.

It is crucial to understand why a site is important, and to do this it is necessary to examine its international significance in terms of the presence and abundance of species that occur there in different seasons. The status and nature of these species also need to be taken into account. Threat status, breeding/ non-breeding status, vulnerability through congregations and the proportion of the total population of each species that occurs at the site, are all important factors in determining a site's importance (Heath & Evans 2000).

Important Bird Areas Global Categories and Criteria (For a Summary of Important Bird Areas Global Categories and Criteria please see Appendix I.)

A1. Globally threatened species:

Criterion: The site regularly holds significant numbers of a globally threatened species, or other species of global conservation concern.

This category refers to species classified as globally threatened with extinction (critical, endangered or vulnerable), conservation dependent or data deficient according to the new IUCN criteria for threatened status. The site qualifies if it is known, estimated or thought to hold a population of a species categorised as Critical, Endangered, Vulnerable, Conservation Dependent, and/or Data Deficient.

(For a list of threatened bird species in India that qualify for this Criterion please see Appendix II,)

A2. Restricted-range species:

Criterion: The site is known or thought to hold a significant component of a group of species whose breeding distributions define an Endemic Bird Area (EBA) or Secondary Area (SA).

Restricted range species are those that have a total world range of less than 50,000 square kilometres. An area where the ranges of two or more restricted range species overlap is known as an endemic bird area. Analysis by BirdLife International has shown that a very high proportion of the world's endemic birds occur in a small proportion of the land area. The EBAs defined by these species are important hot spots for the conservation of bird diversity (Stattersfield et al. 1998).

An IBA may be chosen because it contains high proportion of the list of restricted range species for a particular EBA, or because it contains a restricted range species that has not been included elsewhere. The aim is to define IBAs so that restricted-range species are present in significant numbers in at least one site.

Endemic Bird Areas of India:

- 1. Western Ghats
- 2. Andaman Islands
- 3. Nicobar Islands
- 4. Western Himalayas
- 5. Eastern Himalayas
- 6. Assam Plains
- 7. Southern Tibet

(Though the area primarily lies in Tibet, portions of it also extend into India)

Secondary Areas in India:

- 1. Eastern Andhra Pradesh
- 2. Southern Deccan plateau
- 3. Indus plains
- 4. Central Indian Forests
- North Myanmar lowlands (mainly in Myanmar but also includes lowlands of India)

(For a list of Restricted range bird species in India that qualify for this Criteron please see Appendix III.)

A3. Biome-restricted assemblage:

Criterion: The site is known or thought to hold a significant component of the group of species whose distributions are largely or wholly confined to one biome.

A biome may be defined as a major regional ecological community characterised by distinctive animal and plant species. The site also has to form one of a set selected to ensure that, as far as possible, all species restricted to a biome are adequately represented.

This category applies to groups of species with largely shared distributions which occur mostly or wholly within or a part of a particular biome and are therefore of global importance.

A site selected for this criterion has to form one of a set of sites selected to ensure that as far as possible all species and habitats characteristic of a biome are adequately represented.

The major biomes in India as classified by BirdLife International are as follows:

BIOME 05:

EURASIAN HIGH MONTANE (ALPINE AND

TIBETAN) BIOME 07:

SINO-HIMALAYAN TEMPERATE FOREST

BIOME 08:

SINO-HIMALAYAN SUBTROPICAL FOREST

BIOME 09:

INDOCHINESE TROPICAL MOIST FOREST

BIOME 10:

INDIAN PENINSULA TROPICAL MOIST

FOREST

BIOME II:

INDO-MALAYAN TROPICAL DRY ZONE

BIOME 12:

INDO-GANGETIC PLAINS

BIOME 13:

SAHARO-SINDIAN DESERT

(For a list of biome wise distribution of bird species that qualify for this Criterion for each biome please see Appendix IV.)

A4. Congregations:

Criteria: A site may qualify on any one of the four criteria listed below:

 i). Site known or thought to hold, on a regular basis, ≥ 1% of a biogeographic population of a congregatory waterbird species.

This applies to waterfowl species as defined by Rose and Scott (1994). Thresholds are generated in some instances by combining flyway populations within a biogeographic region, but for others lacking quantitative data, thresholds are set regionally or inter-regionally, as appropriate. In such cases, thresholds will be taken as estimates of 1% of the biogeographic population. (For a list of bird species and the thresholds that qualify for these Criteria please see Appendix VI)

 ii). Site known or thought to hold, on a regular basis, ≥ 1% of the global population of a congregatory seabird or terrestrial species.

This includes those seabird species not covered by Rose and Scott (1994). Where quantitative data are lacking, numerical thresholds for each species are set regionally or inter-regionally, as appropriate. In such cases, thresholds will be taken as estimates of 1% of global population.

 iii). Site known or thought to hold, on a regular basis, ≥ 20,000 water birds or ≥ 10,000 pairs of seabirds of one or more species.

This is the Ramsar criterion for waterbirds. The use of this criterion is discouraged wherever data is good enough to permit the use of (i) or (ii).

iv). Site known or thought to exceed thresholds set for migratory species at bottleneck sites.

Thresholds are set regionally or inter-regionally, as appropriate. This category also covers sites over which migrants congregate e.g. before gaining height in thermals. Although it is the airspace here that is important, conservation of the land beneath it may be necessary to protect it from threats such as hunting and construction.

Identification of the network of sites through the rigorous application of standard and quantitative



IBA workshop



Melghat Tiger Reserve

The fate of IBAs and the communities living in and around them are irrevocably linked

ornithological criteria assures their international importance. The global standardisation of the criteria facilitates comparisons between sites at local, national, regional and global levels. These criteria are compatible with those used to designate wetlands of international importance under the Ramsar Convention and Special Protection areas under the EC Birds Directive (Heath and Evans 2000).

Process of IBA identification and Selection.

Literature Survey

The foundation of this project lies in the data on bird numbers and distribution, generated through the numerous field surveys and research programmes carried out in India during the last few decades. Exhaustive literature surveys were undertaken and information was gathered from various sources, including national environmental organizations, individuals, scientists, protected areas staff, natural history museums, research institutions, universities and publications. Unpublished material held by research and conservation organizations were also analysed during this study. A draft list of 3000

sites was drawn up at the end of this process. This list included records of vagrancy and historical occurrence of bird species, hence it had to be filtered.

Workshops and consultation

Researchers, ornithologists, local forest officials. and bird enthusiasts were consulted through workshops conducted by BNHS and Indian Bird Conservation Network partners, meetings and correspondence, to identify a list of IBAs throughout the country. Emphasis was given to the participation of governmental and nongovernmental conservation bodies and academic institutions. Regional workshops were held in which contributions were made by a vast network of ornithologists, birdwatchers, personnel working for the forest departments, and conservation experts across India and the world. The Bombay Natural History Society and state coordinators of the IBCN have been involved in collating and assessing the data for each state. The participants reviewed the draft list and added and deleted sites based on current information and possibility of occurrence of species at sites. The workshop list identified about 1,000 sites

Identification of gaps

There were lacunae in the information from several areas in India and for certain species. Sites could not be identified for some species and for states like Meghalaya, Mizoram and Nagaland and several districts from other states. This was mainly due to lack of data from these areas.

Surveys for sites and species

Surveys were then commissioned and successfully executed for data deficient species and areas in several states like Meghalaya, Mizoram, Nagaland, Maharashtra, Kerala, Orissa, and Bihar.

Capacity building training workshops

Some areas remained unexplored largely due to the lack of skilled manpower to execute the surveys. The Indian Bird Conservation Network conducted several training workshops in bird census techniques. A manual for bird census was also developed and distributed.

Site prioritisation

Three hundred and thirty nine sites that are confirmed IBAs have been chosen from the workshop list. The number of sites in this list is increasing as new information keeps coming in. These sites are identified on the basis of bird numbers and species complements that they hold, and are selected such that, taken together, they form a network throughout the species biogeographic distributions. This network may be considered as a minimum essential to ensure the survival of these species across their ranges, should there occur a net loss of remaining habitat elsewhere through human or other modification. Therefore, the consequences of the loss of any one of these sites may be disproportionately large. The continued ecological integrity of these sites will be decisive in maintaining and conserving birds for which a site based approach is appropriate. Legal protection, management and monitoring of these crucial sites will be important targets for action. and many but not all bird species may be effectively conserved by these means. Patterns of bird distribution are such that, in most cases, it is possible to select sites that support many species (Heath and Evans 2000).

Circulation of Draft lists

Draft lists are continuously circulated to experts for comments and updating information. Several additional sites are being identified as IBAs, as new information comes.

IBA Inventories

The Asian IBA Inventory is scheduled for publication in 2002, followed by the Indian IBA inventory in 2003. State IBA inventories for each state in India are also on the anvil. These inventories are intended to provide comprehensive information on IBA sites and species, and to be used as an advocacy tool for site and species conservation, to enable informed decision making.

Advocacy, awareness and involvement of local communities

The IBA process does not stop at identification and documentation of sites. It encourages widespread ownership of the concept, especially at the grass roots level. The IBA project also involves local communities living in and around IBA sites.

Important Bird Areas and the National Biodiversity Strategy and Action Plan (NBSAP)

Both the National Biodiversity Strategy and Action Plan and IBA are complementary methods with biodiversity conservation as their common goal. The IBA relates to several aspects and components of the NBSAP and is featuring as a sub-thematic review note in the NBSAP.

Status of IBAs

IBAs are the first comprehensive study in which sites have been identified for bird conservation. As mentioned above 335 IBAs have been identified so far. This list however is dynamic and not a fixed list of sites. It is anticipated that several new IBAs will be identified.

Around 90% of IBAs in India are important for one or more of the 79 globally threatened species in India and 47% for the 74 restricted range species found in India. Almost all IBAs fall under at least one biome and hold some of the 374 bird species that fall in the biome criterion. IBAs are also important for species that congregate in large numbers, such as congregatory terrestrial birds, wintering and passage waterbirds and breeding seabirds. Almost 17% of IBAs have been identified for these species (For a list of IBAs see Appendix VII).

International recognition

IBAs are recognised by intergovernmental bodies and international treaties such as the Biodiversity and Ramsar conventions. The Global Environment Facility recognises IBAs in their own strategies and action plans, while the European Union has used them as a basis for legal judgments (Heath and Evans 2000).

Some International conventions and programmes particularly relevant to sites and species are: The Convention on Wetlands of International Importance, especially as Waterfowl Habitat (Ramsar Convention), Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), Convention on Biological Diversity and UNESCO's Man & Biosphere Programme (Evans 1994),

The IBA criteria are compatible with the Ramsar criteria set for wetlands of international importance, yet only 16 IBAs are Ramsar sites. IBAs that qualify according to the Ramsar criteria should be considered for designation as Ramsar sites for the internationally important numbers of waterbirds that they hold.

IBAs not covered under the protected area network

The 92 National Parks and 480 wildlife sanctuaries in India respectively cover 35,357 sq. km and 1,15,451 sq. km, which constitutes 4.6% of the country's 32,87,213 sq. km of geographic area (Kutty and Kothari 2001). A high proportion of IBAs in India does not fall within the protected areas system. With 45% of the IBAs still unprotected, IBAs should be designated under national laws where appropriate. While legal measures may not always guarantee protection on the ground, they demonstrate to all sectors of the society and branches of government, the official recognition and importance of a site.

Bird species can be conserved by protection of sites, and by choosing the richest sites we can conserve many species at the same time, this also makes the best use of the scarce resources that are available for conservation. The Important Bird Areas (IBAs) process is about identifying and protecting those critical sites, IBAs form a network throughout a species' range. As habitats become more threatened, this network will become increasingly important to make sure that these species survive across their ranges. IBAs may include the best examples of the species' natural habitat

Places where a wide variety of birds are found tend to have a wide variety of other forms of life. Although IBAs are defined using birds, they help to protect other wildlife as well.

The sites are selected using scientific methods, but it is also a very practical approach. The existing protected area network will form the backbone of network of IBAs and new sites will be proposed to fill the gaps. Ideally, each site should be large enough to support self-sustaining populations of as many of species as possible for which it was identified. The IBA approach is only suitable for those bird species for which a site based approach is appropriate. This approach however, does not suit all birds. Thus the IBA Programme is only one tool in the armoury of conservation and needs to be combined with other conservation strategies in the wider environment.

Points to remember:

IBAs

- are places of international significance for the conservation of birds at the global, regional or subregional level,
- are practical tools for conservation,
- are chosen using standardised, agreed criteria applied with common sense,
- must, wherever possible, be large enough to support self-sustaining populations of those species for which they are important,
- are places which can be defined and distinguished from surrounding areas, and which are feasible to conserve,
- where possible, preferentially include, where appropriate, existing Protected Areas,
- are not appropriate for all bird species and, for some, are only appropriate in parts of their ranges,
- should form part of a wider, integrated approach to conservation that embraces sites, species and habitat protection.



The BirdLife International Partnership

The BirdLife International Partnership is a global alliance of conservation organisations working in more than 100 countries who together, are the leading authority on the status of birds, their habitats and issues and problems affecting bird life.

MISSION

The BirdLife International Partnership strives to conserve birds, their habitats and global biodiversity working with people towards sustainibility in the use of natural resources.

BirdLife International Office:

Welbrook Court, Girton Road, Cambridge CB3 ONA, UK Tel: +44 1223 277318 Fax: +44 1223 277200

Email: birdlife@birdlife.org.uk Website: www.birdlife.net



The Royal Society for the Protection of Birds

RSPB is the United Kingdom partner of BirdLife International. RSPB is the leading NGO working for the conservation of birds in the UK.

RSPB, UK Headquarters, The Lodge, Sandy, Bedfordshire, SG 19 2DL. Tel: +44 1767 680551 Fax: +44 1767 683211

Email: rspb@rspb.org.uk Website: www.rspb.org

HOW YOU CAN PARTICIPATE

If you think that a site qualifies as an IBA please send in checklists and justification for which criteria it qualifies to, or for more details contact

Dr. Asad R. Rahmani (Principal Investigator)

Dr. Farah Ishtiaq (Network Coordinator, Indian Bird Conservation Network)
States: Arunachal Pradesh, Delhi, Tripura, West Bengal, Chattisgarh, Madhya Pradesh and Orissa.

Supriya Jhunjhunwala (IBA Ornithology Officer)

States: Andaman and Nicobar islands, Andhra Pradesh, Bihar, Goa, Gujarat, Jammu and Kashmir, Jharkand, Lakshadweep, Maharashtra, Manipur, Sikkim, Mizoram, Nagaland, Himachal Pradesh, Punjab and Haryana.

Zafar-ul Islam (IBA Information Officer)

States: Uttar Pradesh, Uttaranchal, Rajasthan, Assam, Meghalaya, Karnataka, Tamil Nadu and Kerala.

At the Bombay Natural History Society, Mumbai.

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APPENDIX 1	
Important Bird Areas: summary of global categories and criteria	

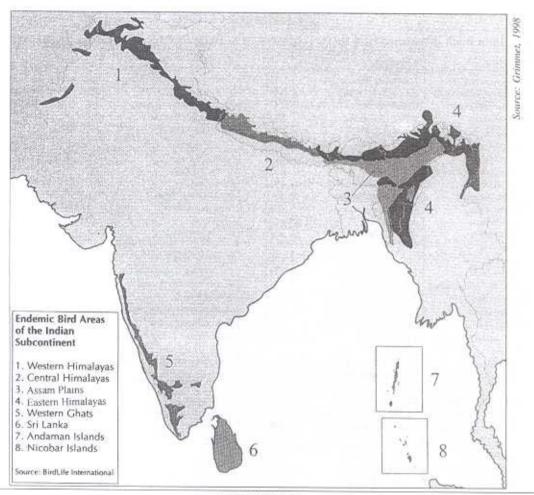
Category	Criterion	Notes
Globally threatened species	The site regularly holds significant numbers of a globally threatened species, or other species of global conservation concern.	The site qualifies if it is known or thought to hold a population of a species categorized as Critical, Endangered, Vulnerable, Conservation Dependent or Data Deficient.
Restricted-range species	The site is known or thought to hold a significant component of the restricted-range species whose breeding distributions define an Endemic Bird Area (EBA) or Secondary Area (SA).	The site also has to form one of a set selected to ensure that, as far as possible, all restricted-range species of an EBA or SA are present in significant numbers in at least one site and, preferably, more.
Biome-restricted assemblage	The site is known or thought to hold a significant component of the group of species whose distributions are largely or wholly confined to one biome.	The site also has to form one of a set selected to ensure that, as far as possible, all species and habitats characteristic of a biome are adequately represented.
Congregations	 (i) The site is known or thought to hold, on a regular basis, ³ 1% of a biogeographic population of a congregatory waterbird species. Or	This applies to waterfowl species as defined by Rose and Scott (1997). Thresholds have been set by combining flyway populations within Asia. For species lacking quantitative data, thresholds were set by estimating 1% of the Asian biogeographic population.
	(ii) The site is known or thought to hold, on a regular basis, 3 1% of the global population of a congregatory seabird or terrestrial species. Or	This includes those seabird species not covered by Rose and Scott (1997). Where quantitative data were lacking, numerical thresholds were set by estimating 1% of the global population.
	(iii) The site is known or thought to hold, on a regular basis, ³ 20,000 waterbirds or >10,000 pairs of seabirds of one or more species. Or	This is the Ramsar criterion for waterbirds, the use of which is discouraged wherever data are good enough to permit the use of (i) of (ii).
	(iv) The site is known or thought to exceed thresholds set for migratory species at bottleneck sites.	Thresholds are set regionally or inter-regionally, as appropriate.

APPENDIX II

	SPECIES	ENGLISH			SPECIES	ENGLISH	
	Pelecanus erispus	Dalmatian Pelican	CD	41	Gallínago nemoricola	Wood Snipe	VU
	Pelecanus philippensis	Spot-billed Pelican	VU	42	Tringa guttifer	Spotted Greenshank	EN
1	Fregata andrewsi	Christmas Island Frigatebird	VU	43	Eurynorhynchus pygmeus	Spoon-billed Sandpiper	VU
1	Ardea insignis	White-bellied Heron	EN	44	Rhinoptilus bitorquatus	Jerdon's Courser	CR
500	Ciconia boyciana	Oriental Stork	EN	45	Rynchops albicollis	Indian Skimmer	VU.
5	Leptoptilos javanicus	Lesser Adjutant	VU	46	Columba eversmanni	Eastern Stock Pigeon	VU
7	Leptoptilos dubius	Greater Adjutant	EN	47	Columba elphinstonii	Nilgiri Wood-pigeon	VL
8	Oxsura leucocephala	White-headed Duck	EN	48	Columba punicea	Purple Wood Pigeon	VL
9	Anser erythropus	Lesser White-fronted Goose	VU	49	Otus alius	Nicobar Scops-owl	DD
10	Cairina scutulata	White-winged Duck	EN	50	Heteroglaux blewitti	Forest Owlet	CR
11	Anas formosa	Baikal Teal	VU	51	Apus acuticauda	Khasi Hills Swift	VU
12	Marmaronetta		l land				100000
	angustirostris	Marbled Teal	VU	52	Aceros nipalensis	Rufous-necked Hornbill	VL
13	Rhodonessa				8		
	carvophyllacea	Pink-headed Duck	CR	53	Aceros narcondami	Narcondam Hornbill	VU
14	Aythya baeri	Baer's Pochard	VU	54	Pycnonotus xantholaemus	Yellow-throated Bulbul	VE
15	Haliacetus leucoryphus	Pallas's Fish-eagle	VU	55	Hypsipetes nicobariensis	Nicobar Bulbul	Vt
16	Accepiter butleri	Nicobar Sparrowhawk	VU	56	Turdus feae	Grey-sided Thrush	VU
17	Aquila clanga	Greater Spotted Eagle	VU	57	Brachypteryx hyperythra	Rusty-bellied Shortwing	VL
18	Aquila heliaca	Eastern Imperial Eagle	VU	58	Brachypteryx major	White-bellied Shortwing	VI
19	Falco naumanni	Lesser Kestrel	VU	59	Saxicola macrorhyncha	Stoliczka's Bushchat	VI
20	Megapodius		5022		[15505-573-573-006-506-N-0-050-V-1-006-		100
	nicohariensis	Nicobar Megapode	VU	60	Saxicola insignis	Hodgson's Bushchat	VU
21	Francolinus gularis	Swamp Francolin	VU	61	Garrulax cachinnans	Rufous-breasted	100000
	ALIGHER COTT PRINTED	Control Median Control	17,000	(0.00		Laughingthrush	EN
22	Perdicula manipurensis	Manipur Bush-quail	VU	62	Pellorneum palustre	Marsh Babbler	VI
23	Arborophila mandellii	Red-breasted Hill-Partridge	VU	63	Spelaeornis badeigularis	Mishmi Wren-Babbler	VI
24	Ophrysia superciliosa	Himalayan Quail	CR	64	Spelaeornis longicaudatus	Tawny-breasted	1
					250	Wren-babbler	VI
25	Tragopan						7
	melanocephalus	Western Tragopan	VU	65	Stachyris oglei	Snowy-throated Babbler	VI
26	Tragopan blythii	Blyth's Tragopan	VU	66	Chrysomma altirostre	Jerdon's Babbler	VI
27	Lophophorus sclateri	Sclater's Monal	VU	67	Turdoides longirostris	Slender-billed Babbler	VI
28	Catreus wallichi	Cheer Pheasant	VU	68	Paradoxornis flavirostris	Black-breasted Parrotbill	VI
29	Syrmaticus humiae	Mrs. Hume's Pheasant	VU	69	Prinia cinereocapilla	Grey-crowned Prinia	VI
30	Pavo muticus	Green Peafowl	VU	70	Chaetornis striatus	Bristled Grass-Warbler	VI
31	Grus leucogeranus	Siberian Crane	CR	71	Schoenicola platvura	Broad-tailed Grassbird	VI
32	Grus monacha	Hooded Crane	VU	72	Ficedula subrubra	Kashmir Flycatcher	VI
33	Grus nigricollis	Black-necked Crane	VU	73	Parus nuchalis	Pied Tit	VI
34	Grus antigone	Sarus Crane	VU	74	Sitta formosa	Beautiful Nuthatch	V
35	Rallina canningi	Andaman Crake	DD	75	Amandava formosa	Green Munia	V
36	Heliopais personata	Masked Finfoot	VU	76	Ploceus megarhynchus	Finn's Weaver	V
37	Ardeotis nigriceps	Great Indian Bustard	EN	77	Gyps bengalensis	White-backed Vulture	C
38	Houbaropsis bengalensis				32) ATA		
	hengalensis	Bengal Florican	EN	78	Gyps indicus	Long-billed Vulture **	C
39	Sypheotides indica	Lesser Florican	EN	79	Gyps tenuirostris	Slender-billed Vulture **	C
40	Vanellus gregarius	Sociable Lapwing	VU		534		

NOTE

- Species listed as Critical (CR), Endangered (EN), Vulnerable (VU), Data Deficient (DD) or Conservation Dependent (CD) in the Asian Red Data Book,
- 2. Near Threatened (NT) species have not been included.
- **Earlier the Long-billed Vulture (Gyps indicus) had two subspecies G. indicus indicus and G. indicus tenuirostris
 (Ali and Ripley, 1987) but now the subspecies have been elevated to full species: Long-billed Vulture G. indicus and
 Slenderbilled Vulture G. tenuirostris (Rasmussen and Parry 2000).



APPENDIX III

Endemic bird areas in India with the list of restricted range bird species found in them:

1. Western Ghats

	1. We	stern Ghats	
1	Nilgiri Wood Pigeon	Columba elphinstoni	
1. 2. 3. 4.	Blue-winged Parakeet	Psittacula columboides	
3.	Malabar Grey-Hornbill	Ocyceros griseus	
4.	Nilgiri Pipit	Anthus nilghiriensis	
5.	Grey-headed Bulbul	Pycnonotus priocephalus	
6	Black-and-Orange Flycatcher	Ficedula nigrorufa	
7.	Broad-tailed Grassbird	Schoenicola platyura	
8_	Small Sunbird	Nectarinia minima	
8_ 9_ 10.	Grey-breasted Laughingthrush	Garrulax jerdoni	
10.	Nilgiri Flycatcher	Eumyias albicaudata	
11.	Indian Rufous Babbler	Turdoides subrufus	
12.	Nilgiri Laughingthrush	Garrulax cachinnans	
13.	White-bellied Blue Flycatcher	Cyornis pallipes	
14.	White-bellied Shortwing	Brachypteryx major	
15.	White-bellied Treepie	Dendrocitta leucogastra	
16.	Wynaad Laughingthrush	Garrulax delesserti	

 		Buceros voi. 6, No. 2 (2001)
	2. Anda	man Islands
1.	Andaman Serpent-Eagle	Spilornis elgini
2.	Nicobar Megapode	Megapodius nicobariensis
3,	Andaman Crake	Rallina canningi
4.	Andaman Wood-Pigeon	Columba palumboides
5.	Andaman Cuckoo-dove	Macropygia rufipennis
b.	Andaman Hawk-owl	Ninox affinis
7.	Narcondam Hornbill	Aceros narcondami
8.	Andaman Black Woodpecker	Dryocopus hodgei
9	Andaman Drongo	Dierurus andamanensis
10.	Andaman Treepie	Dendrocitta bayleyi
11,	White-headed Starling	Sturnus erythropygius
	3. Nico	bar Islands
1.	Nicobar Serpent-eagle	Serifo and a series
2	Nicobar Sparrowhawk	Spilornis minimus
3.	Nicobar Megapode	Accipiter butleri
4	Andaman Wood Pigeon	Megapodius nicobariensis
5.	Andaman Cuckoo-dove	Columba palumboides
7	Nicobar Parakeet	Macropygia rufipennis
8.	Andaman Hawk-owl	Psittacula caniceps
9	Nicobar Bulbul	Ninox affinis
10	White-headed Starling	Hypsipetes nicobariensis
(125)	Winte-nedocd Starting	Sturnus erythropygius
72	4. Wester	n Himalayas
L	Himalayan Quail	Ophrysia superciliosa
2.	Western Tragopan	Tragopan melanocephalus
3.	Cheer Pheasant	Catreus wallichii
4	Brooke's Leaf Warbler	Phylloscopus subviridis
5.	Kashmir Flycatcher	Ficedula subrubra
6	Kashmir Nuthatch	Sitta cashmirensis
7.	Orange Bullfinch	Pyrrhula aurantiaca
8.	Spectacled Finch	Callacanthis burtoni
9.	White-cheeked Tit	Aegithalos leucogenys
10	Tytler's Leaf Warbler	Phylloscopus tytleri
14,	White-throated Tit	Aegithalos niveogularis
	5, Easter	n Himalayas
1.	Khasi Hills Swift	Apus acuticauda
2	Ward's Trogon	Harpactes wardi
3_	Red-breasted Hill-Partridge	Arborophila mandellii
4.	Blyth's Tragopan	Tragopan blythii
5.	Sclater's Monal	Lophophorus sclateri
6.	Beautiful Sibia	Heterophasia pulchella
7.	Broad-billed Flycatcher Warbler	Tickellia hodgsoni
8.	Brown-capped Laughingthrush	Garrulax austeni
9.	Grey Sibia	Heterophasia gracilis
10.	Hoary-throated Barwing	Actinodura nipalensis
11.	Brown-throated Tit-Babbler	Alcippe ludlowi
12.	Rufous-throated Wren-habbler	Construction

Spaeleornis caudatus

12:

Rufous-throated Wren-babbler

	5. Eastern H	limalayas (contd.)
13.	Rusty-bellied Shortwing	Brachypteryx hyperythra
14.	Mishmi Wren Babbler	Spelaeornis badeigualris
15,	Austen's Babbler	Stachyris oglei
16.	Austen's Barwing	Actinodura waldeni
17.	Striped Laughingthrush	Garrulax virgatus
18.	Tawny-breasted Wren-babbler	Speleornis longicaudatus
19.	Wedge-billed Wren-babbler	Sphenocichla humei
20.	White-naped Yuhina	Yuhina bakeri
21.	Black-browed Leaf Warbler	Phylloscopus canator
	6.Ass	am Plains
la:	Manipur Bush Quail	Perdicula manipurensis
2.	Blackbreasted Parrotbill	Paradoxornis flavirostris
3.	Marsh Babbler	Pellorneum palustre
	7.Sout	hern Tibet
i.	Giant Babax	Babax waddelli
		of restricted range species found in them:
	Jerdon's Courser	Andhra Pradesh
	Jerdon's Courser	Rhinoptilus bitorquatus
ŀ.		
	2. Southern	Deccan plateau
	2. Southern Yellow-throated Bulbul	Deccan plateau Pycnonotus xantholaemus
	Yellow-throated Bulbul	
6	Yellow-throated Bulbul	Pycnonotus xantholaemus
6	Yellow-throated Bulbul 3. Ind Sind Sparrow	Pycnonotus xantholaemus
	Yellow-throated Bulbul 3. Ind Sind Sparrow	Pycnonotus xantholaemus lus plains Passer pyrrhonotus
L.	Yellow-throated Bulbul 3. Ind Sind Sparrow 4. Central Forest Owlet	Pycnonotus xantholaemus lus plains Passer pyrrhonotus Indian Forests

APPENDIX 4 BIOME WISE DISTRIBUTION OF BIRD SPECIES

BIOME 05	: EURASIAN HIGH MONTANE (ALPINE AND TIBETAN)
BIOME 07	: SINO-HIMALAYAN TEMPERATE FOREST
BIOME 08	: SINO-HIMALAYAN SUBTROPICAL FOREST
BIOME 09	INDOCHINESE TROPICAL MOIST FOREST
BIOME 10	: INDIAN PENINSULA TROPICAL MOIST FOREST
BIOME 11	: INDO-MALAYAN TROPICAL DRY ZONE
BIOME 12	: INDO-GANGETIC PLAINS
BIOME 13	: SAHARO-SINDIAN DESERT

BIOME 05: EURASIAN HIGH MONTANE (ALPINE AND TIBETAN)

LOCATION: The Altay-Sayan mountains in south-eastern Russia, western Mongolia and north-western China, the Tien Shan and Qinghai-Tibetan Plateau in China, and northern (Trans-Himalayan) Pakistan, India, Nepal, Bhutan, and Myanmar (extends westward into the central Asian republics, the Middle East and Europe). Open habitats at and above the tree-line, mainly above c. 3,600 m.

KEY HABITATS: Scrub and open habitats at and above the tree-line, including alpine and subalpine scrub and grassland; inland cliffs and rocky slopes; scree and boulders; montane wetlands; gravel and sand plains.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Southern Tibet (EBA 133; 2 species); Eastern Tibet (EBA 134; 2 species); Southern Xinjiang mountains (SA 076; 1 species); Mongolian mountains (SA 077; 1 species); Northern Qinghai-Tibetan plateau (SA 078; 1 species).

	Scientific name	English name	
Ĺ	Gyps himalayensis	Himalayan Griffon	
2.	Lerwa lerwa	Snow Partridge	
3.	Tetraogallus tibetanus	Tibetan Snowcock	
4.	Tetraogallus himalayensis	Himalayan Snowcock	
5.	Perdix hodgsoniae	Tibetan Partridge	
6.	Grus nigricollis	Black-necked Crane	
7.	Gallinago solitaria	Solitary Snipe	
8.	Gallinago nemoricola	Wood Snipe	
9,	Ibidorhyncha struthersii	Ibisbill	
10.	Larus brunnicephalus	Brown-headed Gull	
11.	Syrrhaptes tibetanus	Tibetan Sandgrouse	
12.	Columba leuconota	Snow Pigeon	
13.	Melanocorypha maxima	Long-billed Calandra Lark	
14.	Calandrella acutirostris	Hume's Short-toed Lark	
15.	Anthus roseatus	Rosy Pipit	
16.	Anthus spinoletta	Water Pipit	
17.	Lanius tephronotus	Grey-backed Shrike	
18.	Prunella collaris	Alpine Accentor	
19.	Prunella himalayana	Altai Accentor	
20.	Prunella rubeculoides	Robin Accentor	

BIOME 05: EURASIAN HIGH MONTANE (ALPINE AND TIBETAN) (Contd.)

21.	Prunella fulvescens	Brown Accentor
22,	Zoothera mollissima	Plain-backed Thrush
23.	Turdus kessleri	Kessler's Thrush
24.	Phoenicurus hodgsoni	Hodgson's Redstart
25.	Phoenicurus erythrogaster	Guldenstadt's Redstart
26.	Grandala coelicolor	Grandala
27,	Saxicola insignis	Hodgson's Bushchat
28.	Garrulax henrici	Prince Henri's Laughingthrush
29.	Leptopoecile sophiae	Stoliczka's Tit-Warbler
30.	Phylloscopus fuligiventer	Smoky Warbler
31.	Phytloscopus affinis	Tickell's Warbler
32.	Phytloscopus griseolus	Olivaceous Leaf Warbler
33.	Tichodroma muraria	Wallcreeper
34.	Leucosticte nemoricola	Hodgson's Mountain-finch
35.	Leucosticte brandti	Black-headed Mountain-finch
36.	Rhodopechys sanguinea	Crimson-winged Finch
37.	Carpodacus pulcherrimus	Beautiful Rosefinch
38.	Carpodacus rhodochlamys	Red-mantled Rosefinch
39.	Carpodacus rubicilloides	Streaked Great Rosefinch
40.	Carpodacus rubicilla	Common Great Rosefinch
41.	Carpodacus puniceus	Red-fronted Rosefinch
42.	Montifringilla nivalis	Pallas's Snowfinch
43.	Montifringilla adamsi	Tibetan Snowfinch
44.	Montifringilla taczanowskii	Mandelli's Snowfinch
45.	Montifringilla ruficollis	Rufous-necked Snowfinch
46.	Montifringilla blanfordi	Plain-backed Snowfinch
47.	Pseudopodoces humilis	Hume's Groundpecker
48.	Pyrrhocorax graculus	Yellow-billed Chough

LOCATION: The mountains bordering the Qinghai-Tibetan Plateau in southern and western China, northern Pakistan and India, Nepal and Bhutan, the mountains of Bangladesh, Myanmar, Taiwan, northern Laos, Thailand and Vietnam, and the Altay-Sayan and Tien Shan ranges in south-eastern Russia, western Mongolia and north-western China (extends westward into Afghanistan and the central Asian republics). Mainly between c. 1,800 and 3,600 m.

KEY HABITATS: Broadleaf evergreen forest; Broadleaf deciduous, mixed broadleaf-coniferous and coniferous forest; Montane grassland.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Western Himalayas (EBA 128; 11 species); Central Himalayas (EBA 129; 3 species); Eastern Himalayas (EBA 130; 22 species); Qinghai mountains (EBA 135; 2 species); Shanxi mountains (EBA 136; 2 species); Central Sichuan mountains (EBA 137; 11 species); West Sichuan mountains (EBA 138; 3 species); Yunnan mountains (EBA 139; 3 species); Fan-Si-Pan and northern Laos (SA 082; 4 species).

	Scientific name	English name	
1.	Tetraophasis szechenyii	Buff-throated Partridge	
2.	Arborophila torqueola	Common Hill Partridge	
3.	Ithaginis cruentus	Blood Pheasant	
4.	Tragopan satyra	Satyr Tragopan	
5.	Tragopan temminckii	Temminck's Tragopan	
6.	Pucrasia macrolopha	Koklass Pheasant	
7.	Lophophorus impejanus	Impeyan Monal	
8,	Columba hodgsonii	Speckled Wood-pigeon	
9.	Psittacula derbiana	Lord Derby's Parakeet	
10.	Indicator xanthonotus	Yellow-rumped Honeyguide	
11.	Dendrocopos darjellensis	Darjeeling Pied Woodpecker	
12.	Dendrocopos himalayensis	Himalayan Pied Woodpecker	
13.	Delichon nipalensis	Nepal House-martin	
14.	Prunella strophiata	Rufous-breasted Accentor	
15.	Prunella atrogularis	Black-throated Accentor	
16.	Prunella immaculata	Maroon-backed Accentor	
17.	Zoothera dixoni	Long-tailed Thrush	
18.	Zoothera monticola	Greater Long-billed Thrush	
19.	Turdus albocinetus	White-collared Blackbird	

	Scientific name	English name
2(),	Turdus rubrocanus	Chestnut Thrush
21.	Brachypteryx stellata	Gould's Shortwing
22.	Luscinia pectoralis	Himalayan Rubythroat
23.	Luscinia pectardens	Firethroat
24.	Luscinia brunnea	Indian Blue Robin
25.	Tarsiger chrysaeus	Golden Bush-robin
26.	Tarsiger indicus	White-browed Bush-robin
27.	Tarsiger hyperythrus	Rufous-breasted Bush-robin
28.	Phoenicurus erythronota	Eversmann's Redstart
29.	Phoenicurus caeruleocephalus	Blue-capped Redstart
30.	Phoenicurus schisticeps	White-throated Redstart
31.	Hodgsonius phaenicuroides	White-bellied Redstart
32.	Garrulax albogularis	White-throated Laughingthrush
33.	Garrulax striatus	Striated Laughingthrush
34.	Garrulax ocellatus	Spotted Laughingthrush
35.	Garridax lineatus	Streaked Laughingthrush
36.	Garrulax subunicolor	Scaly Laughingthrush
37.	Garrulax elliotii	Elliot's Laughingthrush
38.	Garrulax variegatus	Variegated Laughingthrush
39,	Garrulax affinis	Black-faced Laughingthrush
40,	Xiphirhynchus superciliaris	Slender-billed Scimitar-babbler
41.	Pnoepyga albiventer	Greater Scaly-breasted Wren-babbler
42.	Spelaeornis troglodytoides	Bar-winged Wren-babbler
43.	Spelaeornis formosus	Spotted Wren-babbler
44	Spelaeornix chocolatinus	Long-tailed Wren-babbler
45,	Pteruthius xanthochlorus	Green Shrike-babbler
46.	Minla strigula	Bar-throated Minla
47.	Minla ignotineta	Red-tailed Minla
48.	Alcippe chrysotis	Gold-breasted Tit-Babbler

	Scientific name	English name
49.	Alcippe vinipectus	White-browed Tit-Babbler
50.	Heterophasia capistrata	Rufous Sibia
51.	Yuhina gularis	Stripe-throated Yuhina
52.	Yuhina occipitalis	Rufous-vented Yuhina
53.	Myzornis pyrrhoura	Myzornis
54.	Conostoma oemodium	Great Parrotbill
55.	Paradoxornis unicolor	Brown Parrotbill
56.	Paradoxornis fulvifrons	Fulvous-fronted Parrotbill
57.	Tesia castaneocoronata	Chestnut-headed Tesia
58.	Tesia cyaniventer	Grey-bellied Tesia
59.	Cettia major	Chestnut-crowned Bush-Warbler
60.	Cettia flavolivacea	Aberrant Bush-Warbler
61.	Cettia acanthizoides	Yellow-bellied Bush-Warbler
62.	Cettia brunnifrons	Grey-sided Bush-Warbler
63.	Bradypterus major	Long-billed Bush-Warbler
64.	Phylloscopus subaffinis	Buff-throated Warbler
65.	Phylloscopus pulcher	Orange-barred Leaf Warbler
66.	Phylloscopus maculipennis	Grey-faced Leaf Warbler
67.	Phylloscopus magnirostris	Large-billed Leaf-Warbler
68.	Phylloscopus occipitalis	Western Crowned-Warbler
69.	Seicercus poliogenys	Grey-cheeked Flycatcher Warbler
70.	Muscicapa ruficauda	Rusty-tailed Flycatcher
71.	Muscicapa ferruginea	Ferruginous Flycatcher
72.	Ficedula hodgsonii	Rufous-breasted Blue Flycatcher
73.	Ficedula strophiata	Orange-gorgeted Flycatcher
74.	Ficedula superciliaris	Ultramarine Flycatcher
75.	Ficedula tricolor	Slaty-blue Flycatcher
76.	Ficedula sapphira	Sapphire Flycatcher
77.	Niltava sundara	Rufous-bellied Niltava

	Scientific name	English name	
78.	Aegithalos iouschistos	Rufous-fronted Tit	
792	Cephalopyrus flammiceps	Fire-capped Tit	
80.	Parus rufonuchalis	Simla Crested Tit	
81.	Parus rubidiventris	Rufous-bellied Crested Tit	
82.	Parus melanolophus 7	Spot-winged Crested Tit	
83.	Parus dichrous	Brown Crested Tit	
84.	Parus monticolus	Green-backed Tit	
85.	Sylviparus modestus	Yellow-browed Tit	
86.	Sitta himalayensis	White-tailed Nuthatch	
87.	Sitta leucopsis	White-cheeked Nuthatch	
88.	Certhia himalayana	Bar-tailed Tree-creeper	
89.	Certhia nipalensis	Rusty-flanked Tree-creeper	
9().	Dicaeum melanoxanthum	Yellow-bellied Flowerpecker	
91.	Aethopyga ignicauda	Fire-tailed Sunbird	
92.	Serinus thibetanus	Tibetan Siskin	
93	Carduelis spinoides	Yellow-breasted Greenfinch	
94.	Carduelis ambigua	Black-headed Greenfinch	
95.	Carpodacus rubescens	Blanford's Rosefinch	
96.	Carpodacus nipalensis	Dark-breasted Rosefinch	
97.	Carpodacus rodochrous	Pink-browed Rosefinch	
98.	Curpodacus vinaceus	Vinaceous Rosefinch	
99.	Carpodacus edwardsii	Dark-rumped Rosefinch	
100.	Carpodacus rodopeplus	Spot-winged Rosefinch	
101.	Carpodacus thura	White-browed Rosefinch	
102.	Propyrrhula subhimachala	Crimson-browed Finch	
103.	Haematospiza sipahi	Scarlet Finch	
104.	Pyrrhula nipalensis	Brown Bullfineh	
105.	Pyrrhula erythrocephala	Red-headed Bullfinch	
106.	Pyrrhula erythaca	Beavans Bullfinch	

	Scientific name eman dailgn?	English name Seroman offinions
107.	Mycerobas icterioides throngon in chocaboli	Black-and-yellow Grosbeak A sumotsodospatisti . P
108.	Mycerobas affinis modeling in the Mycerobas affinis	Collared Grosbeak valuevask almost A 01
109.	Mycerobas melanozanthos Hadmatlanvoral	Spotted-winged Grosbeak Wasking samulation A. 11
110.	Mycerobas carnipes lideral fortant such 2	White-winged Grosbeak zirashagan zarasak. 2.1
111.	Pyrrhoplectes epauletta dual betaniti-nebloi)	Gold-naped Black Finch inntimut annulugate 22.1
112.	Blae-throated Barbet sirtsorivally assistant	Yellow-billed Blue Magpie antibian antibigate 41

BIOME 08: SINO-HIMALAYAN SUBTROPICAL FOREST

LOCATION: South-eastern China, Taiwan, the Himalayan foothills of Pakistan, India, Nepal and Bhutan, and the mountains of Bangladesh, Myanmar, Thailand, Laos, Cambodia, Vietnam and peninsular Malaysia. Mainly between c. 1,000 and 2,000 m.

KEY HABITATS: Lower montane rain forest; Hill evergreen forest; Pine forest.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Chinese subtropical forests (EBA 140; 5 species); South-East Chinese mountains (EBA 141; 5 species); Hainan (EBA 142; 4 species); Da Lat plateau (EBA 145; 8 species); Taiwan (EBA 149; 15 species); Myanmar-Thailand mountains (SA 080; 1 species); Doi Chiang Dao (SA 081; 1 species); Southern Laos (SA 083; 2 species); Kontum Plateau (SA 084; 3 species); Thailand-Cambodia mountains (SA 085; 1 species).

NOTES: A few of the species of this biome range into the mountains of peninsular Malaysia, and there is therefore some overlap with the Sundaic montane forest (Biome 15). Note that the division of this biome from the Indochinese tropical moist forest (Biome 09) is particularly difficult, with some species listed for the two biomes overlapping in altitudinal range.

	Scientific name	English name
1.	Microhierax melanoleucos	Pied Falconet
2.	Arborophila rufogularis	Rufous-throated Hill-Partridge
3.	Bambusicola fytchii	Mountain Bamboo-partridge
4.	Syrmaticus humiae	Mrs. Hume's Pheasant
5.	Porzana bicolor	Elwes's Crake
6.	Psittacula himalayana	Slaty-headed Parakeet
7.	Psittacula finschii	Grey-headed Parakeet
8.	Chrysococcyx maculatus	Asian Emerald Cuckoo

BIOME 08: SINO-HIMALAYAN SUBTROPICAL FOREST (Contd.)

	Scientific name	English name	
9.	Batrachostomus hodgsoni	Hodgson's Frogmouth	
10,	Alcedo hercules	Blyth's Kingfisher	
11.	Anorrhinus tickelli	Brown Hombill	
12.	Aceros nipalensis	Rufous-necked Hornbill	
1.3.	Megalaima franklinii	Golden-throated Barbet	
14.	Megalaima asiatica	Blue-throated Barbet	
153	Dendrocopos atratus	Stripe-breasted Woodpecker	
16.	Blythipicus pyrrhotis	Bay Woodpecker	
17.	Pitta nipalensis	Blue-naped Pitta	
18.	Coracina melaschistos	Black-winged Cuckoo-shrike	
19.	Pericrocotus roseus	Rosy Minivet	
20.	Pericrocotus brevirostris	Short-billed Minivet	
21.	Spizixos canifrons	Crested Finchbill	
22.	Pycnonotus striatus	Striated Bulbul	
23.	Pycnonotus leucogenys	Himalayan Bulbul	
24.	Psenonotus flavescens	Blyth's Bulbul	
25.	Alophoixus flaveolus	White-throated Bulbul	
26.	Hypsipetes mcclellandii	Rufous-bellied Bulbul	
27.	Hypsipetes leucocephalus	Black Bulbul	
28.	Chloropsis hardwickii	Orange-bellied Chloropsis	
29.	Lanius collurioides	Burmese Shrike	
30.	Monticola cinclorhynchus	Blue-headed Rock-thrush	
31.	Zoothera wardii	Pied Thrush	
32.	Zoothera marginata	Lesser Long-billed Thrush	
33.	Turdus unicolor	Tickell's Thrush	
34.	Turdus dissimilis	Black-breasted Thrush	
35.	Turdus boulboul	Grey-winged Blackbird	
36.	Myiomela leucurum	White-tailed Robin	
37.	Cinclidium frontale	Blue-fronted Robin	

BIOME 08: SINO-HIMALAYAN SUBTROPICAL FOREST (Contd.)

	Scientific name	English name
38.	Enicurus schistaceus	Slaty-backed Forktail
39.	Cochoa purpurea	Purple Cochoa
40.	Cochoa viridis	Green Cochoa
41.	Garrulax galbanus	Yellow-throated Laughingthrush
42.	Garrulax gularis	Rufous-vented Laughingthrush
43.	Garrulax cineraceus	Ashy Laughingthrush
44.	Garrulax rufogularis	Rufous-chinned Laughingthrush
45.	Garrulax caerulatus	Grey-sided Laughingthrush
46.	Garrulax merulinus	Spot-breasted Laughingthrush
47.	Garrulax sannio	White-browed Laughingthrush
48.	Garrulax squamatus	Blue-winged Laughingthrush
49.	Liocichla phoenicea	Red-faced Liocichla
50.	Pellorneum alhiventre	Spot-throated Babbler
51.	Pomatorhinus erythrocnemis	Spot-breasted Scimitar-babbler
52.	Pomatorhinus erythrogenys	Rusty-cheeked Scimitar-babbler
53,	Pomatorhinus ochraceiceps	Lloyd's Scimitar-Babbler
54.	Napothera brevicaudata	Streaked Wren-babbler
55.	Stachyris ruficeps	Rufous-capped Babbler
56.	Stachyris pyrrhops	Black-chinned Babbler
57.	Babax lanceolatus	Chinese Babax
58.	Leiothrix lutea	Red-billed Leiothrix
59.	Cutia nipalensis	Cutia
60.	Pteruthius rufiventer	Rufous-bellied Shrike Babbler
61.	Gampsorhynchus rufulus	White-hooded Babbler
62.	Actinodura egertoni	Rusty-fronted Barwing
63.	Minla cyanouroptera	Blue-winged Minla
64.	Alcippe cinerea	Yellow-throated Tit-Babbler
65.	Alcippe cinereiceps	Streak-throated Tit- Babbler
66.	Alcippe brunnea	Dusky Fulvetta

BIOME 08: SINO-HIMALAYAN SUBTROPICAL FOREST (Contd.)

	Scientific name	English name
67.	Alcippe nipalensis	Nepal Tit-Babbler
68.	Heterophasia annectens	Rufous-backed Sibia
69.	Yuhina castaniceps	Striated Yuhina
70.	Yuhina nigrimenta	Black-chinned Yuhina
71.	Paradoxornis gularis	Grey-headed Parrotbill
72.	Paradoxornis guttaticollis	Spot-breasted Parrotbill
730	Paradoxornis atrosuperciliaris	Lesser Rufous-headed Parrotbill
74,	Paradoxornis ruficeps	Greater Rufous-headed Parrotbill
75.	Prinia criniger	Brown Prinia
76,	Texia olivea	Slaty-bellied Tesia
77.	Cettia pallidipes	Blanford's Bush-Warbler
78.	Seicercus xanthoschistos	Grey-headed Flycatcher Warbler
79.	Sewereus affinis	White-spectacled Flycatcher Warbler
80:	Ahroscopus albogularis	Rufous-faced Flycatcher Warbler
81.	Abroscopus schisticeps	Black-faced Flycatcher Warbler
82.	Muscicapa muttui	Brown-breasted Flycatcher
83.	Ficedula monileger	White-gorgeted Flycatcher
84.	Niltava macgrigoriae	Small Niltava
85,	Aegithalos concinnus	Red-headed Tit
86.	Parus spilonotus	Black-spotted Yellow Tit
87.	Sitta formosa	Beautiful Nuthatch
88;	Aethopyga saturata	Black-throated Sunbird
89.	Arachnothera magna	Streaked Spiderhunter
9(),	Saroglossa spiloptera	Spot-winged Starling
91.	Sturnus sinensis	White-shouldered Starling
92,	Oriolus tenuirostris	Slender-billed Oriole
93.	Oriolus traillii	Maroon Oriole
94.	Garrulus lanceolatus	Black-headed Jay
95.	Dendrocitta formosae	Grey Treepie
96.	Dendrocitta frontalis	Black-browed Treepie

BIOME 09: INDOCHINESE TROPICAL MOIST FORESTS

LOCATION: Southern Nepal and Bhutan, Bangladesh, extreme southern China, Myanmar, Thailand, Laos, Cambodia and Vietnam. Mainly below c.1,000 m.

KEY HABITATS: Lowland evergreen rain forest; Semi-evergreen rain forest; Moist deciduous forest.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Annamese lowlands (EBA 143; 8 species); South Vietnamese lowlands (EBA 144; 3 species); North Myanmar lowlands (SA 079; 1 species).

	Scientific name	English name
L	Ardea însignis	White-bellied Heron
2.	Arborophila atrogularis	White-cheeked Hill-Partridge
3	Polyplectron bicalcaratum	Grey Peacock-pheasant
4_	Heliopais personata	Masked Finfoot
5.	Columba punicea	Purple Wood Pigeon
6.	Dinopium shorii	Himalayan Golden-backed Woodpecker
7.	Gecinulus grantia	Pale-headed Woodpecker
8.	Pitta cyanea	Blue Pitta
9.	Iole virescens	Olive Bulbul
10.	Enicurus immaculatus	Black-backed Forktail
11.	Garrulax monileger	Lesser Necklaced Laughingthrush
12.	Garrulax pectoralis	Greater Necklaced Laughingthrush
13.	Garrulax ruficollis	Rufous-necked Laughingthrush
14.	Alcippe rufogularis	Rufous-throated Tit-Babbler
15.	Prinia cinereocapilla	Hodgson's Prinia
16.	Cyornis poliogenys	Brooks Flycatcher
17.	Melanochlora sultanea	Sultan Tit
18.	Ampeliceps coronatus	Gold-crested Myna
19.	Dicrurus annectans	Crow-billed Drongo

BIOME 10: INDIAN PENINSULA TROPICAL MOIST FOREST

LOCATION: The Western Ghats and isolated areas of moist forest in the Eastern Ghats and elsewhere in peninsular India, and the wet zone of Sri Lanka. Mainly below $c.1,000 \, \mathrm{m}$.

KEY HABITATS: Lowland evergreen rain forest; Semi-evergreen rain forest; Moist deciduous forest; Hill evergreen forest.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Western Ghats (EBA 123; 16 species); Sri Lanka (EBA 124; 23 species); Central Indian forests (SA 075; 1 species).

	Scientific name	English name
Ē.	Phaenicophaeus viridirostris	Small Green-billed Malkoha
2,	Batrachostomus moniliger	Ceylon Frogmouth
3,	Caprimulgus atripennis	Jerdon's Nightjar
4.	Collocalia unicolor	Indian Edible-nest Swiftlet
5.	Harpactes fasciatus	Malabar Trogon
6.	Anthracoceros coronatus	Malabar Pied-hornbill
7.	Megalaima viridis	White-cheeked Barbet
8.	Megalaima rubricapilla	Crimson-throated Barbet
9,	Hirundo domicola	Hill Swallow
10.	lole indica	Yellow-browed Bulbul
11.	Myiophonus horsfieldii	Malabar Whistling-thrush
12.	Pomatorhinus horsfieldii	Indian Scimitar-babbler
13.	Rhopocichla atriceps	Black-headed Babbler
14.	Nectarinia lotenia	Loten's Sunbird
15.	Lonchura kelaarti	Black-throated Munia

BIOME 11: INDO-MALAYAN TROPICAL DRY ZONE

LOCATION: Pakistan, India, Sri Lanka (dry zone), southern Nepal and Bhutan, Bangladesh, southern China, Myanmar, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia (Java only).

KEY HABITATS: Dry deciduous forest; Dry evergreen forest; Thorn forest; Semi-desert scrub; Wooded grassland; Secondary grassland; Arable land; Abandoned farmland.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Irrawaddy plains (EBA 132; 2 species); Eastern Andhra Pradesh (SA 071; 1 species); Southern Deccan Plateau (SA 072; 1 species).

NOTES: This biome includes a wide range of habitats, including both forests and open country. Many of the species listed have adapted to man-modified habitats. Some species have changed their distributions so much that they may not prove to be useful in identifying IBAs for the protection of this biome.

BIOME II: INDO-MALAYAN TROPICAL DRY ZONE (contd.)

	Scientific name	English name
1.	Pseudibis papillosa	Black Ibis
2.	Gyps bengalensis	Indian White-backed Vulture
3.	Gyps indicus	Long-billed Vulture
4.	Sarcogyps calvus	Red-headed Vulture
5.	Butastur teesa	White-eyed Buzzard
6.	Falco chicquera	Red-headed Falcon
7.	Francolinus pictus	Painted Francolin
8.	Coturnix coromandelica	Rain Quail
9,	Perdicula asiatica	Jungle Bush-quail
10.	Perdicula argoondah	Rock Bush-quail
11.	Perdicula erythrorhyncha	Painted Bush-quail
12.	Galloperdix lunulata	Painted Spurfowl
13.	Pavo cristatus	Indian Peafowl
14.	Pavo muticus	Green Peafowl
15.	Sypheotides indica	Lesser Florican
16.	Vanellus malabaricus	Yellow-wattled Lapwing
17.	Cursorius coromandelicus	Indian Courser
18.	Treron phoenicoptera	Yellow-legged Green-pigeon
19.	Psittacula cyanocephala	Plum-headed Parakeet
20.	Psittacula reseata	Blossom-headed Parakeet
21.	Phaenicophaeus leschenaultii	Sirkeer Malkoha
22.	Bubo coromandus	Dusky Eagle-owl
23.	Strix ocellata	Mottled Wood-owl
24.	Caprimulgus asiaticus	Common Indian Nightjar
25.	Ocyceros birostris	Indian Grey-hornbill
26.	Megalaima zevlanica	Brown-headed Barbet
27.	Megalaima lineata	Lineated Barbet
28.	Dendrocopos mahrattensis	Yellow-fronted Pied Woodpecker
29.	Dinopium benghalense	Lesser Goldenbacked Woodpecker
30.	Chrysocolaptes festivus	Black-shouldered Woodpecker
31.	Mirafra erythroptera	Red-winged Bush Lark
32.	Mirafra assamica	Bengal Bush Lark
33.	Eremopterix grisea	Ashy-crowned Sparrow-lark
34.	Calandrella raytal	Indian Short-toed Lark
35.	Galerida malabarica	Malabar Crested Lark
36.	Galerida deva	Sykes's Crested Lark

BIOME 11: INDO-MALAYAN TROPICAL DRY ZONE (contd.)

	Scientific name	English name
37.	Coracina melanoptera	Black-headed Cuckoo-shrike
38.	Perierocotus cinnamomeus	Small Minivet
39,	Pericrocotus erythropygius	White-bellied Minivet
40.	Tephrodornīs pondicerianus	Common Woodshrike
41.	Pycnonotus luteolus	White-browed Bulbul
42,	Aegithina nigrolutea	Marshall's Iora
43.	Saxicoloides fulicata	Indian Robin
44,	Cercomela fusca	Indian Chat
45.	Dumetia hyperythra	Rufous-bellied Babbler
46.	Turdoides malcolmi	Large Grey Babbler
47.	Turdoides striatus	Jungle Babbler
48.	Turdoides affinis	White-headed Babbler
49.	Printa buchanani	Rufous-fronted Prinia
50,	Prinia sylvatica	Jungle Prinia
51.	Prinia socialis	Ashy Prinia
52.	Rhipidura aureola	White-browed Fantail- Flycatcher
53.	Parus nuchalis	Pied Tit
54.	Amandava formosa	Green Munia
55.	Padda oryzivora	Java Sparrow
56.	Sturnus malabaricus	Grey-headed Starling
57.	Sturnus pagodarum	Brahminy Starling
58.	Acridotheres ginginianus	Bank Myna
59.	Dicrurus caerulescens	White-bellied Drongo
60.	Artamus fuscus	Ashy Woodswallow

BIOME 12: INDO-GANGETIC PLAINS

LOCATION: Plains of Pakistan, northern India, southern Nepal and Bhutan, Bangladesh, extreme southern China, Myanmar. Thailand, Laos, Cambodia, Vietnam.

KEY HABITATS: Wetlands; Moist/marshy grassland; Scrub on marshy ground.

ENDEMIC BIRD AREAS AND SECONDARY AREAS: Assam plains (EBA 131; 3 species); Indus plains (SA 074; 1 species).

NOTES:

	Scientific name	English name	
1,_	Francolinus gularis	Swamp Francolin	
2.	Houbaropsis bengalensis	Bengal Florican	
3.	Saxicola leucura	White-tailed Stonechat	
4.	Saxicola jerdoni	Jerdon's Bushchat	

BIOME 12: INDO-GANGETIC PLAINS (contd.)

	Scientific name	English name
5.	Chrysomma altirostre	Jerdon's Babbler
6.	Turdoides earlei	Striated Babbler
7	Turdoides longirostris	Slender-billed Babbler
8.	Prinia burnesii	Long-tailed Prinia
9.	Chaetornis striatus	Bristled Grass Warbler
10	Graminicola bengalensis	Rufous-rumped Grass Warbler
11.	Ploceus benghalensis	Black-breasted Weaver
12.	Ploceus megarhynchus	Finn's Weaver
13.	Acridotheres alhocinctus	Collared Myna

BIOME 13: SAHARO-SINDIAN DESERT

LOCATION: Pakistan and north-eastern India (extends through southern Iran to the Arabian Peninsula and North Africa).

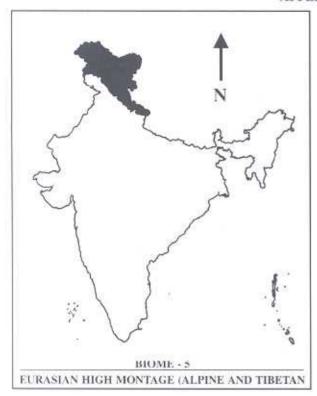
KEY HABITATS: Desert dunes; Gravel and sand plains; Stone desert; Oases.

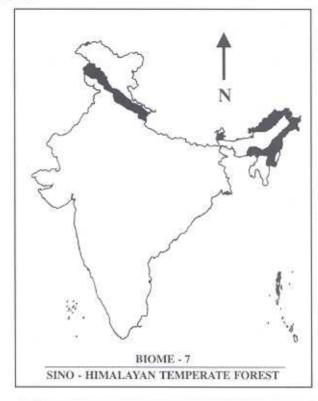
ENDEMIC BIRD AREAS AND SECONDARY AREAS: None.

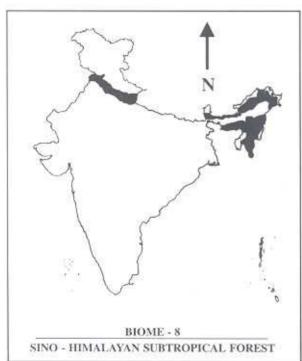
	Scientific name	English name	
i.	Ardeotis nigriceps	Great Indian Bustard	
2	Pterocles senegallus	Spotted Sandgrouse	
3.	Caprimulgus mahrattensis	Sykes's Nightjar	
4.	Dendrocopos assimilis	Sind Pied Woodpecker	
5.	Ammomanes deserti	Desert Finch Lark	
6,	Alaemon alaudipes	Greater Hoopoe-lark	
7_	Hirundo fuligula	Pale Crag-martin	
8.	Pycnonotus leucotis	White-eared Bulbul	
9.	Hypocolius ampelinus	Hypocolius	
10.	Saxicola macrorhyncha	Stoliczka's Bushchat	
11.	Rhodopechys githaginea	Trumpeter Finch	

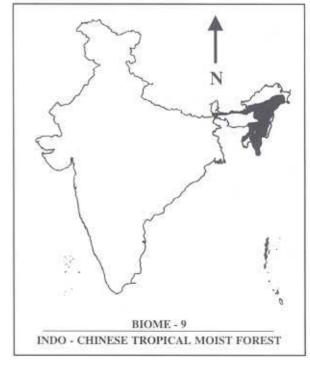
For Biome maps please see Appendix V

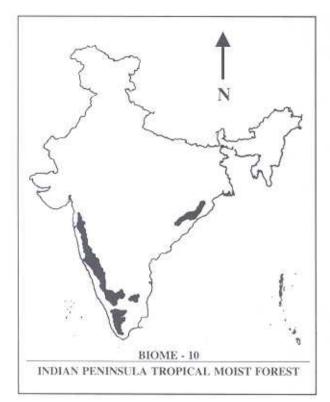
APPENDIX V

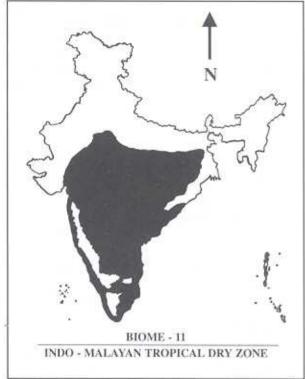




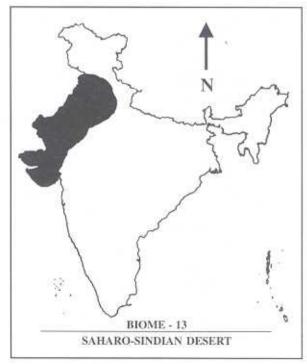












APPENDIX VI List of Thresholds for waterfowl population i.e. 1% of the Biogeographic population of waterfowl. CRITERIA A4i

English name	Threshhold number of individual birds	Species	Threshhold number of individua birds
Little Grebe	5500	Comb Duck	60
Great-crested Grebe	400	Cotton Teal	1500
Great White Pelican	225	Gadwall	2000
Dalmatian Pelican	115	Falcated Duck	5000
Spot-billed Pelican	115	Eurasian Wigeon	7500
Little Cormorant	1500	Mallard	11000
Indian Shag	300	Spot-billed Duck	6000
Great Cormorant	800	Northern Shoveller	6000
Darter	100	Andaman Teal	130
Little Egret	7000	Northern Pintail	15000
Grey Heron	1200	Garganey	7500
Goliath Heron	1	Baikal Teal	1000
White-bellied Heron	1	Common Teal	9000
Purple Heron	500	Marbled Teal	50
Large Egret	500	Pink-headed Duck	1
Median Egret	1000	Red-crested Pochard	750
Cattle Egret	15000	Common Pochard	10000
Indian Pond Heron	5000	Ferruginous Pochard	100
Chinese Pond Heron	1000	Baer's Pochard	100
Striated Pond Heron	1000	Tufted Pochard	10000
Black-crowned Night-Heron	1000	Greater Scaup	5000
Malayan Night-heron	100	Common Goldeneye	250
Little Bittern	150	Smew	250
Yellow Bittern	5000	Red-breasted Merganser	500
Chestnut Bittern	6000	Common Merganser	550
Black Bittern	750	Siberian Crane	30
Painted Stork	200	Sarus Crane	100
Asian Open-billed Stork	1250	Demoiselle Crane	850
Black Stork	55	Common Crane	60
White-necked Stork	150	Black-necked Crane	55
European White Stork	30	White-breasted Waterhen	10000
Oriental White Stork	30	Watercock	500
Black-necked Stork	4	Purple Moorhen	1000

APPENDIX VI (contd.)
List of Thresholds for waterfowl population i.e. 1% of the Biogeographic population of waterfowl.

CRITERIA A4i

Species	Threshold number of individual birds (1% biogeog popula.)	Species	Threshold number of individual birds (1% biogeog popula.
Lesser Adjutant-Stork	50	Common Moorhen	10000
Greater Adjutant-Stork	7	Common Coot	25000
Glossy Ibis	500	Masked Finfoot	50
Oriental White Ibis	300	Pheasant-tailed Jacana	1000
Black Ibis	100	Bronze-winged Jacana	1000
Eurasian Spoonbill	150	Greater Painted Snipe	1000
Greater Flamingo	2500	Eurasian Oystercatcher	100
Lesser Flamingo	1500	European Golden Plover	18000
Large Whistling-Duck	200	Grey Plover	700
Lesser Whistling-Duck	10000	Common Ringed Plover	1000
Greylag Goose	650	Long-billed Ringed Plover	150
Bar-headed Goose	200	Little Ringed Plover	1000
Brahminy Shelduck	1000	Kentish Plover	1500
White-winged Duck	4	Lesser Sand Plover	2000
Greater Sand Plover	750	Ruff	500
Northern Lapwing	650	Ibisbill	250
Spur-winged Lapwing	100	Black-winged Stilt	5250
Yellow-wattled Lapwing	500	Pied Avocet	400
Grey-headed Lapwing	250	Red-necked Phalarope	3000
Red-wattled Lapwing	1500	Crab Plover	40
Sociable Lapwing	10	Collared Pratincole	250
White-tailed Lapwing	250	Oriental Pratincole	1700
Wood Snipe	50	Small Pratincole	250
Pin-tailed Snipe	2000	Sooty Gull	400
Common Snipe	15000	Heuglin's Gull	2000
Jack Snipe	660	Great Black-headed Gull	500
Black-tailed Godwit	2600	Brown-headed Gull	1000
Bar-tailed Godwit	3300	Andaman Crake	not set
Whimbrel	900	Slaty-legged Crake	not set
Eastern Curlew	500	Water Rail	not set
Spotted Redshank	300	Corn Crake	not set
Common Redshank	2000	Brown Crake	not set

APPENDIX VI (contd.) List of Thresholds for waterfowl population i.e. 1% of the Biogeographic population of waterfowl. CRITERIA A4i

Species	Threshold number of individual birds (1% biogeog popula.)	Species	Threshold number of individual birds (1% biogeog popula.
Marsh Sandpiper	1900	Little Crake	not set
Common Greenshank	650	Baillon's Crake	not set
Spotted Greenshank	10	Spotted Crake	not set
Green Sandpiper	2000	Ruddy-breasted Crake	not set
Wood Sandpiper	10000	Eurasian Woodcock	not set
Terek Sandpiper	1250	Stone Plover	not set
Common Sandpiper	2000	Great Stone Plover	not set
Ruddy Turnstone	750	Jerdon's Courser	not set
Asian Dowitcher	175	Cream-coloured Courser	not set
Red Knot	3000	Indian Courser	not set
Sanderling	750	Broad-billed Sandpiper	500
Little Stint	2000		
Temminck's Stint	750		
Duntin	1500		
Curlew Sandpiper	3500		
Spoon-billed Sandpiper	50		

APPENDIX VII Statewise List of Important Bird Areas identified.

(Draft list subject to change)

Sr.No	SITE NAME	CRITERIA
	ANDAMAN ISLANDS	
1	LITTLE ANDAMAN	A1,A2
2	SOUTH SENTINEL	A1.A2
3	NORTH SENTINEL	ALA2
4	KADAKACHANG	A1,A2
5	KHATAKHARI, NAYA DERA	A1,A2
6	BARANGTANG-RAFTERS CREEK	A1,A2
7	MOUNT DIAVALO/CUTHBERT BAY	A1,A2
8	CHAINPUR & HANSPURI	A1,A2
9	JARAWA RESERVE (MIDDLE ANDAMAN	A1,A2
10	JARAWA RESERVE (SOUTH ANDAMAN)	A1,A2
11	PATTI LEVEL CLIFF BAY	A1,A2
12	AUSTIN STRAIT	A1.A2
13	INTERVIEW ISLAND WS	A1,A2
14	LANDFALL ISLAND WS	A1,A2
15	MOUNT HARRIETT NP	A1,A2
16	NARCONDAM ISLAND WS	A1,A2
17	NORTH REEF ISLAND WS	A1,A2
18	SADDLE PEAK NP	A1,A2
19	MAHATMA GANDHI MARINE NP	A1,A2
	ANDHRA PRADESH	
20	HORSELY HILLS	A1,A2
21	GUDUR TANK	A1
22	GODAVARI ESTUARY	Al
23	KRISHNA ESTUARY	
24	TELINEELAPURAM	A1,A2
25	UPALAPADU	A1
26	KOLLERU WS	Al
27	SRI LANKAMALLESWARA WS	A1,A2
28	NELLAPATTU WS	A1
29	PULICAT LAKE WS	Al
30	ROLLAPADU WS	A1,A2
31	SRI VENKATESWARA NP	A1,A2
32	VELLIKONDA WS	A1,A2
33	KAUNDINYA WS	A1,A2

Appendix VI	I Statewise	List of	Important	Bird Areas identified.
	(Draft list	subject	to change)	(contd.)

Sr.No	SITE NAME	CRITERIA
	ARUNACHAL PRADESH	
34	NAMDAPHA NP & KAMLANG WS	A1, A2, A3
35	D'ERING WS & DIBANG WS	A1, A2, A3
36	TALLEY VALLEY WS	A1, A2
37	PAKHUI WS	A1, A2
38	SANGTI VALLEY	A1, A3
39	EAGLENEST WS & SEESA WS	A1, A2, A3
40	MEHAO WS	A1,A2
41	MOULING NP	A1, A2
42	DIBANG WS	A1, A2, A3
43	NAMTOK, NAMHEIK, NAMPONG, MANMAO	A1, A2
44	MANDLA PHUDUNG AREA	A1, A2
45	MAGO-THINGBU & LUGUTHANG AREA	A1, A2, A3
46	ZAMITHANG-NELYA-SAGESHWAR LAKE AREA	A1, A2, A3
47	THUNGRI CHANGLANG POSHINGLA, MAJI, BASTI	A1, A2
48	CHAYANG TAJO-KHENEWA LADA AREA	A1, A2
49	KOLORIANG-SARLI-DAMIN AREAS	A1, A2
50	NACHO-LIMEKING-TAKSING, MAJHA & NEIGHBOURING AREAS	A1, A2
51	TATO-MACHUKA-MONI GONG-GASHENG	A1, A2
52	SIRKUM PAHAR & NEIGHBOURING AREAS	A1, A2
53	MANDLA PHUDUNG AREA	A1, A2
54	DITCHU RESERVE FOREST	A1, A2
55	PARA-CHANGLAGAUM	A1, A2
56	NAMSANG MUKH-VODORIA	A1
	ASSAM	7.000
57	JOYDIHING WS (PROPOSED)	
	(UPPER DIHING WEST BLOCK-JOYPUR-DIRAK)	A1, A2, A3 A4 iv
58	UPPER DIHING (EAST BLOCK)-KAKOJAN	
	RF-DIGBOI OIL FIELD AREA	A1,A2,A3
59	BURACHAPORI WS + LAOKHOWA WS	A1,A2
60	BUHRIDIHING	A1,A3
61	CHAKRASILA WS-DIPLAI-DIKRA BEEL COMPLEX-DHIR BEEL	A1,A2,A3
62	DOOM DOOMA-DANGORI RF	A1,A2,A3
63	DEEPAR BEEL WS	A1,A3,A4 (iii)
64	DIBRU-SAIKHOWA NP + KOBO CHAPORI +	
	AMARPUR CHAPORI-MAGURI-MOTAPUNG BEELS	A1,A2

Sr.No	SITE NAME	CRITERIA
65	HAHKHATI RESERVE FOREST + KUMSONG RESERVE FOREST	ALA3
66	JAMJING- SENGHJAN RESERVE FORESTS	A1,A3
67	JENGDIA BEEL	A1,A4(i)
68	KAZIRANGA NP	A1,A2
69	KOABARI DOLONI	A1,A3,A4(i)
70	TIRAP-PATKAI (SALIKI PRF-ADJACENT PRFS)	A1,A2,A3
7.1	MAJULI BEEL	A1,A2,A4(i)
72	MANAS NP	A1,A2,A3
73	MISAMARI BEEL-KOKLIAMUKH-LAOJAN-DALANI-KAWIMARI COMPLEX	A1
74	NAGAON	Al
75	NAMERI NP	A1,A2
76	BARAIL RANGE-NORTH CACHAR RF	A1,A2
77	ORANG NP	A1,A2
78	PANIDIHING BIRD SANCTUARY-PHOKOLAI BEEL	A1,A2,A3 A4(iii
79	POBITARA WS	A1,A2,A3 A4(iii)
80	SONAI-RUPA WS	AI
81	SIBSAGAR-JOYSAGAR-GOURI TANKS	A1
82	JATINGA	A1,A2
83	SON BEEL	A1
	BIHAR	711
84	DANAPUR TANK	A1
85	KABAR LAKE WS	Al
86	KURSELA	Al
87	TAL WETLANDS	A4(iii)
88	VALMIKI NP + WS	A1
	CHHATTISGARH	711
89	UDANTI & SITANADI WS	AI
26/22	GOMARDA WS	AI
91	INDRAVATI NP	A1
92	BARNAWAPARA WS	Al
	DELHI	A1
93	OKHLA BARRAGE	A1
	GOA	63.1
94	ILHAS WETLANDS	Al
95	BHAGWAN MAHAVIR NP	A1,A2

Appendix VII Statewise List of Important Bird Areas identified.

Sr.No	SITE NAME	CRITERIA
96	COTIGAO WS	A1,A2
	GUJARAT	
97	BANNI GRASSLANDS + HANJ TAL + CHHARI DHAND	A1
98	FLAMINGO CITY	A1
99	WETLANDS OF KHEDA DISTRICT	A1
100	MAHI RIVER ESTUARY	A1
101	SALT PANS OF BHAVNAGAR	AI
102	PARIEHJ & KANEVAL RESERVOIRS	A1
103	LALA GREAT INDIAN BUSTARD WS	A1
104	RUDRAMATA DAM	A1
105	LUNA JHEEL	A1
106	GIR NP + WS	A1
107	KHUADIA WS	A1
108	MARINE NP + WS (GULF OF KACHCHH)	AI
109	NALSAROVAR WS	A1
110	THOL LAKE WS	A1
111	VELAVADAR NP	A1
112	WILD ASS WS	A1
	HIMACHAL PRADESH	
113	DALLI (SOUTH)	A1.A2
114	CHAIL WS	A1,A2
115	DARANGHATI WS	A1,A2
116	GAMGUL SIAHBEHI WS	A1,A2
117	GREAT HIMALAYAN NP	A1,A2
118	KAIS WS	A1,A2
119	KANAWAR WS	A1.A2
120	KUGTI WS	A1.A2
121	RUPI BHABA WS	A1,A2
122	TIRTHAN WS	A1.A2
	HARYANA	
123	SULTANPUR NP	A1,A2
124	KALESAR WS	A3
125	BASAI WETLANDS	A4(iii)
126	WETLANDS OF YAMUNA	A4(iii)
127	BHINDAWAS WS	

Sr.No	SITE NAME	CRITERIA
	JAMMU & KASHMIR	
128	TSO MORARI LAKE & ADJACENT MARSHES	A1
129	CHUSHUL MARSHES	Al
130	MIRGUND JHEEL & RESERVE	AI
131	WULAR LAKE	A1
132	LOLAB VALLEY	A1.A2
133	DACHIGAM NP	A1
1.34	HEMIS NP	AI
135	KISHTWAR NP	Al
136	OVERA WS	A1,A2
137	HANLE SHADO-BUG	
138	LIMBAR WS	A1,A2
	JHARKHAND	
130	PALAMAU WS	Al
140	UDHWA LAKE WS	Al
	KARNATAKA	
141	BANNERGHATTA NP	A1,A2,A3
142	BHADRA WS	A1,A2,A3
143	BILIGIRIRANGA TEMPLE WLS+BILGIRI RANGASWAMI HILLS	A1,A2,A3
144	CAUVERY WS	A1,A2,A3
145	DANDELI WS	A1,A2,A3
146	HAMPI RUINS	A1,A2
147	KOKKARE BELLUR	A1,A41 (i)
148	NANDI HILLS	A1,A2,A3
149	RAMANAGARA STATE FOREST	A1,A2,A3
150	RANEBENNUR BLACKBUCK SANCTUARY	A1
151	RANGANATHITOO WS	A1,A3
	KERALA	
152	AMARAMBALAM RESERVE FOREST-NILAMBUR	A1,A2,A3
153	ARALAM WS	A1,A2
154	CARDAMOM HILLS	A1,A2
155	CHINNAR WS	A1,A2,A3
156	ERAVIKULAM NP	A1,A2,A3
157	IDUKKI WS	A1,A2
158	KOLE	A1
159	NELLIYAMPATHY RESERVE FOREST	A1.A2.A3

Appendix VIII Statewise List of Important Bird Areas identified.

Sr.No	SITE NAME & (STATE)	CRITERIA
160	PARAMBIKULAM WS	A1,A2,A3
161	PEECHI-VAZHANI	A1,A2,A3
162	PERIYAR TIGER RESERVE	A1,A2,A3
163	SILENT VALLEY NP	A1,A2,A3
164	THATTAKKAD BIRD SANCTUARY	A1,A2,A3
165	THIRUNELLI (PART OF WYNAAD SANCTUARY)	A1,A2,A3
166	VAZHACHAL-SHOLAYAR	A1,A2,A3
167	WYNAAD WS	A1,A2,A3
	LAKSHADWEEP	
168	PITTI WS	A4 (iii)
	MAHARASHTRA	
169	NAGZIRA WS	A3
170	NANNAJ PLOTS	A1
[7]	THANE CREEK	
172	TORANMAL RESERVE FOREST	A1
173	SINHGAD (NORTH WESTERN GHATS)	A1,A2
174	TALODA RESERVE FOREST	A1
175	OZAR & ADJOINING GRASSLANDS	A1
176	GANGAPUR DAM & GRASSLANDS	Al
177	MALSHEJ	A1
178	BHIMASHANKAR WS	A1
179	JAIKWADI WS	A1
180	MELGHAT WS	A1
181	NANDUR WS	A1
182	NAWEGAON NP	A1
183	SANJAY GANDHI NP	A1,A2
184	TADOBA NP	A1
	MADHYA PRADESH	
185	BANDHAVGARH NP	A1
186	DIHAILA JHEEL	A1, A4(iii)
187	KANHA NP	A1
188	MADHAV NP	A
189	PANNA NP	A1
190	PENCH NP	A1
191	NATIONAL CHAMBAL WS	AI
192	SARDARPUR WS	Al

Sr.No	SITE NAME	CRITERIA
193	BORI WS & SATPURA NP	AI
194	SON GHARIAL SANCTUARY	AI
195	KHAKNAAR FOREST RANGE	AI
	MANIPUR	
196	ANGO HILLS	A1
197	DZUKO NP	A1,A2
198	DZUKO WS	A1,A2
199	KAILAM WS	Al
200	LOKTAK LAKE & KEIBUL-LAMJAO NP	A1
201	SIROLNP	A1,A2
202	SIROLWS	A1,A2
203	YANGOUPOKPI-LOKCHAO WS	Al
204	BUNNING WS	Al
	MEGHALAYA	
206	BALPAKRAM NATIONAL PARK + SIJU WS	A1,A2,A3
209	NOKREK RIDGE NP	DD
211	NONGKHYLLERN WS	DD
	MIZORAM	
215	DAMPA WS	
216	MURLEN NP	A1,A2
21.7	NGENGPUI WS	A1,A2
218	PHAWNGPUI WS	A1,A2
219	DAMPA NP	A1,A2
220	DAMPA WS	A1,A2
221	LENGTENG WS	
222	TAWI WS	
	NAGALAND	
223	SATOI RANGE	
224	KHONOMA NATURE CONSERVATION & TRAGOPAN SANCTUARY	
225	DZUKO-JAPFU-PULIEBADZE WS	
226	FAKIM WS	
327	INTANKI NP	
228	SHARAMATI WS	
	NICOBAR ISLANDS	
229	CAR NICOBAR	A1,A2
230	TILANGCHONG, CAMORTA, KATCHAL, NANCOWRY, TRINKAT	A1,A2

Appendix VII Statewise List of Important Bird Areas identified.

Sr.No	SITE NAME	CRITERIA
231	GREAT NICOBAR, LITTLE NICOBAR	A1,A2
	ORISSA	- TOTAL CONTRACTOR OF THE CONT
232	BHITARKANIKA WS	A1,A3
233	CHANDKA WS	A1,A3
234	CHILKA LAKE	A1,A3
235	SUNABEDA WLS	A1
236	SATKOSIA GORGE WS	A1,A3
237	SIMLIPAL NP	A1,A3
	PUNJAB	(4)************************************
238	SHIWALIK HILLS	
239	HARIKE WS	
	RAJASTHAN	
240	AJAN BANDH [PART OF KEOLADEO NP]	A1,A3
241	BAJRANGADH	A1,A3
242	BUND BARETHA WS	A1,A3
243	DESERT NP + KHURI AND TEJSI	A1,A3
244	DILWARA TO ACHALGARH	A1,A3
245	DIYATRA	A1,A3
246	GAGWANA, ARAIN, MANGALIYAWAS, RAMSAR, GOYAL,	
	RATAKOT AND BANDAR	A1,A3,A42 (ii)
247	KEOLADEO NP	A1,A3,A4 (i), A4(iii)
248	RANTHAMBORE TIGER RESERVE	A1,A3
249	SAMBHAR LAKE	A1,A3
250	SARISKA NP	A1,A3
251	SONKHILYA	A1,A3
	SIKKIM	
252	CHHO LHAMO PLATEAU	A1
253	LOHONAK VALLEY	Al
254	LACHUNG, LEMA & DOMBANG VALLEY	A1
255	LOWLAND FOREST TO (MELLI, KERABARI, BAGUWA, JORETHANG	A1,A2
256	RONGLI	
257	KYONGNOSLA ALPINE WS	A1
258	MAENAM WS	A1,A2
259	SHINGBA (RHODODENDRON) WS	11.50(1.19)
260	BARSEY RHODODENDRON WS	Al
261	FAMBONG LHO WS	A1

Sr.No	SITE NAME	CRITERIA	
	TAMIL NADU		
262	AVALANCHE (NILGIRI)	A1,A2	
263	BERIJAM (KODAIKANAL)	A1,A2	
264	BIG TANK	Al	
265	BISON SWAMP (NILGIRI)	A1,A2	
266	CAIRNHILL RESERVE FOREST (NILGIRI)	A1,A2	
267	COONOOR (NILGIRI)	A1,A2	
268	GOVERNOR'S SHOLA (NILGIRI)	A1,A2	
269	GRASS HILLS	A1,A2	
270	GULF OF MANNAR (MANDAPAM & GROUP OF ISLANDS)	A1	
271	KALAKKAD WS	A1,A2	
272	KODAIKANAL, PALNI HILLS+KUKAL (KODAIKANAL)	A1,A2	
273	KODANAD (NILGIRI)	A1,A2	
274	KOLLI HILLS (EASTERN GHATS)	A1,A2	
275	KOTHAGIRI, LONGWOOD SHOLA (NILGIRI)	A1,A2	
276	MOIR POINT	A1,A2	
277	MUDUMALAI WS	A1	
278	MUTHUKUZHI	A1,A2	
279	NADUVATTAM	A1,A2	
280	POINT CALIMERE WS	A1,A4(i), A4(iii	
281	POOMPARAI(POOMBARAI) [KODAIKANAL]	A1,A2	
282	SIRUVANI FOOTHILLS	A1,A2	
283	SUCHINDRAM THERUR	A1	
284	THALAKUNDAH	A1,A2	
285	VEDANTHANGAL BIRD SANCTUARY	Al	
286	PULICAT LAKE	A1,A4(i), A4(iii	
	TRIPURA		
287	GUMTI WS	DD	
288	SEPAHIJALA WS	DD	
289	TRISHNA WS	DD	
	UTTAR PRADESH		
290	DUDWA NP	Al	
291	HASTINAPUR WS	A1,A3	
292	KATERNIA-GHAT WS	A1	
293	KISHANPUR WS	A1	
294	LAGGA-BAGGA RESERVE FOREST	A1	

Appendix VII Statewise List of Important Bird Areas identified.

sr.No	SITE NAME	CRITERIA
95	LAKHBAHOSI BIRD SANCTUARY	Al
96	NATIONAL CHAMBAL WS	AI
97	NAWABGANJ BIRD SANCTUARY	A1,A4(iii)
198	PATNA BIRD SANCTUARY	A1,A4(iii) A1,A4(iii) A1,A4(iii) A2
199	SAMASTIPUR BIRD SANCTUARY	
300	SHEIKHA JHEEL	
3()1	SITABANI-KALADHUNGI	
302	SUR SAROVAR BIRD SANTUARY	A1,A4(iii)
3()3	OKHLA WILDLIFE SANCTUARY	A1,A4(iii)
304	SANDI WS	DD
305	TIKRA JHEELS	A1,A4(iii)
3()6	SURHA TAL WS	DD
30.7	SOHELWA WS	DD
308	SOHANGIBARWA WS	Al
3()9	SITADWAR AND PYAGPUR JHEEL	A1,A4(iii)
310	SAMAN WS	A1,A4(iii)
311	PARVATI ARANGA WS	A1,A4(iii)
312	MAHAVIR SWAMI WS	DD
313	KURRA JHEEL	A1, A4(iii)
314	KAIMUR WS	DD
315	BAKHIRA WS	DD
316	TUMERIA BARRAGE (DAM)	A1,A2
	UTTARANCHAL	
317	ASAN BARAGE	A1,A3
318	BADRAJ, BINOG AND JHARIPANI WS	A1,A2
319	CORBETT TIGER RESERVE	AI
320	GOVIND WS KULNI & BALCHA FOREST	A1.A2
321	KEDARNATH WS	A1,A2
322	KHATI RESERVE AND WACCHUM	DD
	(NANDA DEVI BIOSPHERE RESERVE)	A1,A2
323	ASKOT (SOBLA) WS	A1,A2
324	BINSAR WLS	DD
325	RAJAJI NP	DD
326	SONANADI WLS	DD
327	VALLEY OF FLOWERS NP	DD

Sr.No	SITE NAME	CRITERIA
	WEST BENGAL	
328	BUXA TIGER RESERVE	AI
329	CHAPRAMARI WS	A1
330	GOPALDHARA	Al
331	GORUMARA NP	A1
332	JALPAIGURI TOWN	A1
333	LAVA/NEORA VALLEY NP	A1
334	SINGHALILA NP	A1
335	SUNDARBANS BIOSPHERE RESERVE NP	A1
336	MAHANANDA WS	Al
337	BALLAVPUR WS & SURROUNDING AREAS	A1
338	KULIK BIRD SANCTUARY	A4(iii)
339	JALDHAPARA WS	A1

Legend

A1 = Red Data Book Species

A2 = Restricted Range Species

A3 = Biome Restricted assemblages

A4 = Congregations

DD = Data Deficient

NP =National Park

WS =Wildlife Sanctuary

RF = Reserve Forest

APPENDIX II
Indian Red Data Book threatened bird species* (BirdLife International 2000)

	SPECIES	ENGLISH		SPECIES	ENGLISH
1	Pelecanus crispus	Dalmatian Pelican	41	Gallinago nemoricola	Wood Snipe
2		Spot-billed Pelican	42	Tringa guttifer	Spotted Greenshank
3	Fregata andrewsi	Christmas Island Frigatebird	43	Eurynorhynchus pygmeus	Spoon-billed Sandpiper
4	Ardea insignis	White-bellied Heron	44	Rhinoptilus bitorquatus	Jerdon's Courser
5	Ciconia boyciana	Oriental Stork	45	Rynchops albicollis	Indian Skimmer
6	Leptoptilos javanicus	Lesser Adjutant	46	Columba eversmanni	Eastern Stock Pigeon
7	Leptoptilos dubius	Greater Adjutant	47	Columba elphinstonii	Nilgiri Wood-pigeon
8	Oxyura leucocephala	White-headed Duck	48	Columba punicea	Purple Wood Pigeon
9		Lesser White-fronted Goose	49	Otus alius	Nicobar Scops-owl
10	0 Cairina scutulata	White-winged Duck	50	Heteroglaux blewitti	Forest Owlet
1	1 Anas formosa	Baikal Teal	51	Apus acuticauda	Khasi Hills Swift
1	2 Marmaronetta angustirostris	Marbled Teal	52	Aceros nipalensis	Rufous-necked Hornbill
1		Pink-headed Duck	53	Aceros narcondami	Narcondam Hornbill
1.	4 Avthva baeri	Baer's Pochard	54	Pycnonotus xantholaemus	Yellow-throated Bulbul
1	5 Haliaeetus leucoryphus	Pallas's Fish-eagle	55	Hypsipetes nicobariensis	Nicobar Bulbul
	6 Accipiter butleri	Nicobar Sparrowhawk	56	Turdus feae	Grey-sided Thrush
	7 Aquila clanga	Greater Spotted Eagle	57	Brachypteryx hyperythra	Rusty-bellied Shortwing
1	8 Aquila heliaca	Eastern Imperial Eagle	58	Brachypteryx major	White-bellied Shortwing
1	9 Falco naumanni	Lesser Kestrel	59	Saxicola macrorhyncha	Stoliczka's Bushchat
2	Megapodius nicobariensis	Nicobar Megapode	60	Saxicola insignis	Hodgson's Bushchat
2	Francolinus gularis	Swamp Francolin	61	Garrulax cachinnans	Rufous-breasted Laughingth
	2 Perdicula manipurensis	Manipur Bush-quail	62	Pellorneum palustre	Marsh Babbler
	3 Arborophila mandellii	Chestnut-breasted Partridge	63	Spelaeornis badeigularis	Mishmi Wren-Babbler
2	4 Ophrysia superciliosa	Himalayan Quail	64	Spelaeornis longicaudatus	Tawny-breasted Wren-babbler
2	5 Tragopan melanocephalus	Western Tragopan	65	Stachyris oglei	Snowy-throated Babbler
2	6 Tragopan blythii	Blyth's Tragopan	66	Chrysomma altirostre	Jerdon's Babbler
2	7 Lophophorus sclateri	Sclater's Monal	67	Turdoides longirostris	Slender-billed Babbler
2	8 Catreus wallichi	Cheer Pheasant	68	Paradoxornis flavirostris	Black-breasted Parrotbill
2	9 Syrmaticus humiae	Mrs. Mrs. Hume's Pheasant	69	Prinia cinereocapilla	Grey-crowned Prinia
3	0 Pavo muticus	Green Peafowl	70	Chaetornis striatus	Bristled Grass-Warbler
3	1 Grus leucogeranus	Siberian Crane	71	Schoenicola platyura	Broad-tailed Grassbird
3	2 Grus monacha	Hooded Crane	72	를 받는다. 마음이 가게 되는데 하는데 가게 하는데, 하는데 보고 #	Kashmir Flycatcher
3	3 Grus nigricollis	Black-necked Crane	73	Parus nuchalis	Pied Tit
3	4 Grus antigone	Sarus Crane	74	Sitta formosa	Beautiful Nuthatch
3	5 Rallina canningi	Andaman Crake	75	Amandava formosa	Green Munia
	6 Heliopais personata	Masked Finfoot	76	Ploceus megarhynchus	Finn's Weaver
	7 Ardeotis nigriceps	Great Indian Bustard	77	이 가게 이 일어있는 물로 보면서 해면서 있는데 영어 목욕을 하다고	White-backed Vulture 38
	Houbaropsis bengalensis	Bengal Florican	78	Gyps indicus	Long-billed Vulture**39
	Sypheotides indica	Lesser Florican		Gyps tenuirostris	Slender-billed Vulture**
	O Vanellus gregarius	Sociable Lapwing			

^{*}Species listed ad Critical (CR), Endangered (EN), Vulnerable (VU), Data Deficient (DD) or Conservation Dependent (CD) in the Asian Red Data Book. Near Threatened (NT) species have not been included.

^{* *}The taxons of Indian Vulture (Gyps indicus) and Slender-billed Vulture(Gyps tenurostris) were initially described a separate species but have been treated as subspecies and known as Long-billed Vulture (Gyps indicus) since the early twentieth century. Recent studies have shown that the two forms are distinct species that are not even each other's closest relatives (BirdLife International 2001).

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BOMBAY NATURAL HISTORY SOCIETY

Founded in 1883 for the study of natural history, the Bombay Natural History Society (BNHS) is now one of the premier research and conservation organisations in the country. The Society publishes a journal, the Journal of the Bombay Natural History Society, devoted to natural history and also has a popular publication, Hornbill, for the layman. It has also published a number of books on wildlife and nature. Its library has a large collection of books and scientific journals on wildlife and the environment. The Society's invaluable collection of bird, mammal, reptile, amphibian, insect and plant specimens has been recognised as a National Heritage Collection.

Membership of the Society is open to individuals and institutions within India and abroad. For more details, please write to:

Membership Officer Bombay Natural History Society Museum Compound, Salim Ali Chowk Shaheed Bhagat Singh Road Mumbai 400 023.

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