

## Summary Report on CMS Implementation in the Philippines for the year 2005-2008

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*CMS National Focal Point:* Protected Areas and Wildlife Bureau- Department of Environment and Natural Resources (PAWB-DENR)

*Major Partners:* Bureau of Fisheries and Aquatic Resources-  
Department of Agriculture; WWF-Philippines;  
Conservation International- Philippines; Haribon  
Foundation

### **A. List of CMS Appendix I and II species and other migratory species for which the Philippines is a Range state:**

*See Annex I*

### **B. Conservation Measures undertaken for CMS Appendix I and Appendix II and other migratory species**

#### *B.1. Legislations*

In general, the taking of all threatened species in the Philippines is prohibited under national laws. A list of threatened species (which include species listed under CMS appendix I and appendix II and other migratory species) is currently being enforced. Among the national legislations which prohibit the taking of migratory species and promote the protection of their habitat are: 1) Wildlife Conservation and Protection Act of the Philippines (R..A. 9147); 2) Philippine Fisheries Code of 1998 (R.A. 8550); 3) DENR Administrative Order 2004-15 establishing the National List of Terrestrial Threatened Species; 4) Fisheries Administrative Order (FAO) 208 Series of 2001 on the conservation of rare, threatened, and endangered fishery species. The implementing rules of the Fisheries Code of 2005 bans fishing gears harmful to dolphins.

#### *B.2. Conservation activities on CMS Appendix I and II Species*

##### B.2.1 Marine mammals

##### B.2.1 a. Humpback whale

A "Research and Conservation Project on Humpback Whales (*Megaptera novaengliae*) and Other Cetaceans in the Babuyan Islands, Cagayan,

Northern Luzon, Philippines” was conducted by the WWF-Philippines. Researches were conducted on the status and distribution of humpback whales in Northern Luzon, Philippines, and on the impact of dynamite blasts in a humpback whale breeding ground in Babuyan Islands, Philippines. Through, this project initiative, a *Joint Implementing Rules and Regulations for Cetacean Interaction* was developed by the Bureau of Fisheries - Department of Agriculture and the Department of Tourism.

#### B.2.1.b Irrawady Dolphin

Ecological, fishery and socio-economic studies in the Malampaya Sound in relation to the development of conservation strategy for the Irrawady Dolphin was completed. Gear studies in Malampaya was conducted in 2005-2006. Malampaya Park management are developing fishery policies to minimize the threats to the Irrawaddy dolphin from by-catch capture. Gear modification to conserve the dolphin species is also planned to be implemented in the coming years (WWF report 2007).

Continues monitoring of the Irrawady dolphin populations is undertaken in the Malampaya Sound.

#### B.2.1.c Cetaceans (in general)

- a. Cetacean surveys to establish baseline data on cetacean populations and species in the Tañon Strait straddling the islands of Negros and Cebu were undertaken in 2005 by the WWF-Philippines. Tañon Strait has been regarded as an important migration corridor for whales, dolphins and other marine mammals. The survey was succeeded by the development of Coastal Resource Management Plans for the communities along the Tañon Strait (WWF report.2006).
- b. Studies on fisheries-cetacean by-catch by boarding fishing vessels and surveying landing sites was conducted in starting 2004 by the WWF-Philippines. 954 fishing operations by 81 operators in five sites (i.e. Tañon Strait, Gingoog Bay, Butuan Bay, Babuyan Channel, Macajalar Bay) was observed. In one site, as much as thirty percent of fishing operations observed had by-catch incidents using ring nets. The studies will feed into the development of a national gear regulation system to conserve cetacean species (WWF report 2006).

#### B.2.1.d Dugongs

- a. Dugong Research and Conservation Project In Green Island Bay

Green Island Bay, Roxas, Palawan, is an important habitat for the endangered dugong. An LGU-based marine mammal rescue network

was established in this locality in 2004 which since then has been monitoring strandings and spearheading rescues of dugongs inadvertently caught by fishing gears in the area. Abundance and distribution studies were also carried out in the area (WWF Report, 2006). Green Island Bay has been declared a protected area by the local government and is being proposed a national Protected Area under the National Integrated Protected Area System.

- b. Population survey, habitat assessment, and awareness campaigns were undertaken in Sagay, Negros Occidental, Northern Tañon Strait, and Visayas Sea in 2005; Panay and Northwestern Negros in 2007; and Davao gulf, Southern Mindanao in 2008 by Siliman University. Aerial surveys were in Panay and Northwestern Negros.
- c. Dugong habitat survey in coastal areas are also being undertaken by the DENR.
- d. Responding to dugong sightings and stranding and information campaigns are being undertaken by the DENR.
- e. Among the significant activities which should be undertaken for this species are Aerial surveys in reported habitats to determine the current status of their population.

### **B.2.2 Marine turtles**

- a. Species and habitat protection

As in the previous reporting periods, the Philippine response to marine turtle conservation is centered on management of marine turtle sanctuaries and hatcheries; and species protection through ban of marine turtle egg collection and hunting of turtles.

Management of marine turtle sanctuaries and hatcheries has expanded, from those regularly maintained by the government in the Turtle Island Heritage Protected Area, to include satellite sanctuaries and hatcheries in other parts of the country managed by private resorts, peoples organization or local government through partnership agreements with the DENR. Protecting nesting habitats through their establishment as Critical Habitats under the Philippine Wildlife Act is also being sought.

Responding to reports on captured turtles and information drives are being undertaken by the DENR.

- b. Research

i) “*Turtle By-catch Reduction Program on Longline Fleets in the Pacific*” was initiated in 2007 by the WWF-Philippines and the BFAR. This project works to engage longline fishing fleets to reduce sea turtle by catch. The project aimed to test the effectiveness of circle hooks and a variety of measures for reducing longline by-catch of sea turtles. Local long line fleets shall also be tested for circle hooks.

ii) Habitat surveys and tagging of turtles undertaken by the DENR.

c. Community development

A project called “*Integrated Conservation and Development of the Turtle Island Heritage Protected Area*” was implemented by WWF-Philippines since 2004. Community-based health, livelihood and community education were undertaken in the Turtle Islands which sets the stage for broad-based support for sea turtle conservation. Negotiations with local communities and local government is underway for the development of a management scheme for the conservation of turtle eggs, which was disrupted when the national government banned turtle egg collection in the Turtle Islands in 2001.

### **B.2.3 Migratory Birds**

a. Monitoring

Monitoring of migratory birds is being undertaken as part of Philippines’ participation to the annual Asian Waterbird Count.

b. Species and habitat protection

Protection and enforcement activities undertaken is currently undertaken in major migratory bird sites/Ramsar sites (i.e. Naujan Lake, Olango Island, and Agusan Marsh) and in other protected areas frequented by migratory birds i.e. Batanes Protected Landscape and Seascape, which is a habitat of Black-faced spoonbill in the Philippines.

Protection of important migratory bird site which are not currently managed as protected areas is also being sought through their designation as *Critical Habitat* pursuant to the Philippine Wildlife Act. The Las Piñas –Parañaque Critical Habitat and Tourism Area which inhabits *Egretta eulophotes*, a CMS appendix I, has been designated as such in 2007.

#### **B.2.4 Pisces (i.e. whale shark)**

##### a. Species protection and research

A “*Whale Shark and Coastal Resource Management Project*” was implemented by the WWF-Philippines in Donsol, Sorsogon. In coordination with Local Government in Donsol, the following research and conservation management activities were conducted under the project (WWF Report, 2007):

- i) Monitoring movement of whale shark involving the use of satellite tags. This indicated that the whale shark move to as far as North of Taiwan and other parts of the Philippines (i.e. Ticao and Burias straits);
- ii) Photo identification of individual animal to monitor number of whale shark frequenting the area. 72 distinct individuals were identified using this method.
- iii) Fishery studies and fishery management plan was completed in 2005 as part of conservation strategy for the whale shark;
- iv) Developed a community-based whale shark eco-tourism program for Donsol. Visitor arrivals in Donsol, both foreign and local, show an increasing trend (70-100% p.a.) from 2002-2005. The number of foreign visitors has also increased at an annual rate of 43%, implying that Donsol whale shark ecotourism is increasingly gaining recognition in the international tourism market. Trainings on whaleshark interaction were also completed.

##### b. Plan of Action for the species

The BFAR is currently preparing the Philippine National Plan of Action for the Conservation and Management of Sharks (NPOA-Sharks), after the FAO's International Plan of Action on Sharks (IPOA-Sharks).

#### **C. Membership to CMS Memorandum of Agreements/Understanding**

- a) Memorandum of Understanding on the Conservation and Management of Marine Turtles and their habitats of the Indian Ocean and South-East Asia;
- b) Memorandum of Understanding on the Conservation of Dugongs.

#### **D. Participation in International Cooperation/Initiatives relevant to the conservation of migratory species**

- a) Membership to the East Asian-Australasian Flyway Partnership since 2006. Naujan Lake and Olango Island are registered Flyway Network Sites. Other migratory birds sites are being assessed for nomination to the Partnership;
- b) Bilateral Agreement with the government of Malaysia for the joint management of the Turtle Island Heritage Protected Area.
- c) *The Sulu-Sulawesi Marine Ecoregion (SSME)* - a tri-national initiative together with the governments of Indonesia and Malaysia. In 2004, the governments of the three countries adopted the Ecoregion Conservation Plan (ECP) for SSME during the Conference of Parties to the Convention on Biological Diversity in Kuala Lumpur. Consequently, a Work Plan on Charismatic and Migratory Species is being developed.
- d) *The Coral Triangle Initiative (CTI)* - a multilateral partnership spanning Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and Timor-Leste, to help safeguard the marine and coastal resources of the Coral Triangle. Among the five pillars of the CTI with direct relevance to conservation of migratory species are: i) Financing the establishment of a network of Marine Protected Areas; and ii) Creating an international marine network for turtles and significantly reducing marine turtle by-catch in the Indo-Pacific. Eco-regional and national level Plan of Action for the five goals of the CTI is being formulated.
- e) International Cooperation on Migratory sharks

The Philippines thru the BFAR had participated in the “Meeting to identify and Elaborate an Option for International Cooperation on Migratory Sharks” under the CMS held on 11-13 December 2007 in Seychelles. The BFAR-Philippines supports an international collaborative arrangement for the management of sharks focus on the three species listed in the CMS appendix: 1) Great white shark; 2) Whale shark; and 3) Basking shark. Only the Great white shark and Whale shark are known to occur in the Philippines.

## **E. Contributions to the amendment of CMS appendices**

The Philippines has submitted two proposals for consideration in the CMS COP9 as follows:

- 1) Inclusion of the Irrawaddy dolphin (*Orcaella brevirostris*) on CMS appendix I; and
- 2) Inclusion of the entire population of *Acrocephalus sorghophilus* on CMS Appendix I.

**Annex I**  
**Migratory Species Occurring in the Philippines**  
**(CMS listed species and other migratory species)**

**CMS Appendix 1 (Philippines only)**

| Order/Family      | Scientific Name                         | Common Name             |
|-------------------|---|-------------------------|
| <b>Mammals</b>    |   |                         |
| CETACEA           |   |                         |
| Physeteridae      | <i>Physeter macrocephalus (catodon)</i> | Sperm whale             |
| Balaenopteridae   | <i>Megaptera novaeangliae</i>           | Humpback whale          |
| <b>Aves</b>       |   |                         |
| CICONIFORMES      |   |                         |
| Ardeidae          | <i>Egretta eulophotes</i>               | Chinese egret           |
| Ciconidae         | <i>Gorsachius goisagi</i>               | Japanese night heron    |
| Threskiornithidae | <i>Ciconia boyciana</i>                 | Japanese white stork    |
|                   | <i>Platalea minor</i>                   | Black- faced spoon bill |
| CHARADRIIFORMES   |   |                         |
| Scolopopacidae    | <i>Tringa guttifer</i>                  | Nordmann's green shank  |
| Laridae           | <i>Sterna bernsteini</i>                | Chinese crested tern    |
|                   |   |                         |
| <b>Reptiles</b>   |   |                         |
| TESTUDINATA       |   |                         |
| Chelonidae        | <i>Chelonia mydas</i>                   | Green sea turtle        |
|                   | <i>Caretta caretta</i>                  | Loggerhead turtle       |
|                   | <i>Eretmochelys imbricata</i>           | Hawksbill turtle        |
|                   | <i>Lepidochelys olivacea</i>            | Olive ridley            |
| Dermochelyidae    | <i>Dermochelys coriacea</i>             | Leatherback turtle      |
|                   |   |                         |

**CMS Appendix II (Philippines only)**

| Order/Family         | Scientific Name                 | Common name                 |
|----------------------|---------------------------------|-----------------------------|
| <b>MAMMALS</b>       |                                 |                             |
| <b>CETACEA</b>       |                                 |                             |
|                      |                                 |                             |
| Phocoenidae          | <i>Neophocaena phocaenoides</i> | Finless porpoise            |
| Delphinidae          | <i>Stenella attenuata</i>       | Pantropical spotted dolphin |
|                      | <i>Stenella longirostris</i>    | Spinner dolphin             |
|                      | <i>Lagenodelphis hosei</i>      | Fraser's dolphin            |
|                      | <i>Orcaella brevirostris</i>    | Irrawaddy dolphin           |
|                      | <i>Orcinus orca</i>             | Killer whale                |
| Balaenoptera         | <i>Balaenoptera edeni</i>       | Bryde's whale               |
| <b>SIRENIA</b>       |                                 |                             |
| Dugongidae           | <i>Dugong dugon</i>             | Dugong/sea cow              |
| <b>AVES</b>          |                                 |                             |
| <b>CICONIFORMES</b>  |                                 |                             |
| Threskionithidae     | <i>Plegadis falcinellus</i>     | Glossy ibis                 |
| <b>ANSERIFORMES</b>  |                                 |                             |
| Anatidae             | <i>Anas penelope</i>            | Eurasian Wigeon             |
|                      | <i>Anas strepera</i>            | Gadwall                     |
|                      | <i>Anas crecca</i>              | Green-winged teal           |
|                      | <i>Anas platyrhynchos</i>       | Mallard                     |
|                      | <i>Anas acuta</i>               | Northern Pintail            |
|                      | <i>Anas querquedula</i>         | Garganey                    |
|                      | <i>Anas poecilorhyncha</i>      | Spot-billed duck            |
|                      | <i>Anas clypeata</i>            | Northern shoveler           |
|                      | <i>Aythya ferina</i>            | Common pochard              |
|                      | <i>Aythya fuligula</i>          | Tufted Duck                 |
|                      | <i>Aythya baeri</i>             | Baer's pochard              |
|                      | <i>Aythya marila</i>            | Greater scaup               |
|                      | <i>Nettapus coromandelianus</i> | Cotton Pygmy Goose          |
|                      | <i>Tadorna tadorna</i>          | Common shelduck             |
|                      | <i>Tadorna ferruginea</i>       | Ruddy shelduck              |
|                      |                                 |                             |
| <b>FALCONIFORMES</b> |                                 |                             |
| Pandionidae          | <i>Pandion haliaetus</i>        | Osprey                      |
| Accipitridae         | <i>Pernis ptilorynchus</i>      | Oriental honeybuzzard       |
|                      | <i>Circus spilonotus</i>        | Eastern marsh harrier       |
|                      | <i>Circus melanoleucos</i>      | Pied harrier                |
|                      | <i>Accipiter gularis</i>        | Japanese sparrowhawk        |
|                      | <i>Accipiter soloensis</i>      | Chinese goshawk             |
|                      | <i>Butastor indicus</i>         | Grey-faced buzzard          |



|                         |                                  |                       |
|-------------------------|----------------------------------|-----------------------|
|                         | <i>Milvus migrans</i>            | Black kite            |
|                         | <i>Buteo buteo</i>               | Common buzzard        |
|                         |                                  |                       |
| Falconidae              | <i>Falco tinnunculus</i>         | Eurasian kestrel      |
|                         | <i>Falco columbarius</i>         | Merlin                |
|                         | <i>Falco peregrinus calidus</i>  | Peregrine falcon      |
|                         |                                  |                       |
| CHARADRIIFORMES         |                                  |                       |
| <i>Recurvirostridae</i> | <i>Himantopus himantopus</i>     | Black winged stilt    |
|                         | <i>Recurvirostra avosetta</i>    | Pied avocet           |
|                         |                                  |                       |
| <i>Charadriidae</i>     | <i>Vanellus cinereus</i>         | Grey headed lapwing   |
|                         | <i>Pluvialis fulva</i>           | Asian golden plover   |
|                         | <i>Pluvialis squatarola</i>      | Grey plover           |
|                         | <i>Charadius veredus</i>         | Oriental plover       |
|                         | <i>Charadrius hiaticula</i>      | Common ringed plover  |
|                         | <i>Charadrius dubius</i>         | Little ringed plover  |
|                         | <i>Charadrius alexandrinus</i>   | Kentish plover        |
|                         | <i>Charadrius mongulus</i>       | Lesser sand plover    |
|                         | <i>Charadrius leschenaultii</i>  | Lesser sand plover    |
|                         |                                  |                       |
| <i>Scolopacidae</i>     | <i>Lymnocyptes minimus</i>       | Jack snipe            |
|                         | <i>Limosa lapponica</i>          | Bar-tailed godwit     |
|                         | <i>Limosa limosa</i>             | Black-tailed godwit   |
|                         | <i>Numenius phaepus</i>          | Whimbrel              |
|                         | <i>Numenius arquata</i>          | Eurasian curlew       |
|                         | <i>Numenius madagascariensis</i> | Far eastern curlew    |
|                         | <i>Numenius minutus</i>          | Little curlew         |
|                         | <i>Numenius tahitiensis</i>      | Bristle tighed curlew |
|                         | <i>Tringa totanus</i>            | Common redshank       |
|                         | <i>Tringa erythropus</i>         | Spotted redshank      |
|                         | <i>Tringa nebularia</i>          | Common greenshank     |
|                         | <i>Tringa ochropus</i>           | Green sandpiper       |
|                         | <i>Tringa glareola</i>           | Wood sandpiper        |
|                         | <i>Tringa stagnatilis</i>        | Marsh sandpiper       |
|                         | <i>Actitis hypoleucos</i>        | Common hypoleucos     |
|                         | <i>Xenus cinereus</i>            | Terek sandpiper       |
|                         | <i>Heteroscelus breviceps</i>    | Grey-tailed tattler   |
|                         | <i>Arenaria interpres</i>        | Ruddy turnstone       |
|                         | <i>Limnodromus semipalmatus</i>  | Asian dowitcher       |
|                         | <i>Lymnocyptes minimus</i>       | Jack snipe            |
|                         | <i>Gallinago stenura</i>         | Pintail snipe         |
|                         | <i>Gallinago megala</i>          | Swinhoe's snipe       |

|  |                                      |                                   |
|--|--------------------------------------|-----------------------------------|
|  | <i>Gallinago gallinago</i>           | Common snipe                      |
|  | <i>Scolopax rusticola</i>            | Eurasian woodcock                 |
|  | <i>Calidris canutus</i>              | Red knot                          |
|  | <i>Calidris tenuirostris</i>         | Great knot                        |
|  | <i>Calidris alba</i>                 | Sanderling                        |
|  | <i>Calidris ruficollis</i>           | Rufous-necked stint               |
|  | <i>Calidris minuta</i>               | Little stint                      |
|  | <i>Calidris subminuta</i>            | Long-toed stint                   |
|  | <i>Calidris acuminata</i>            | Sharp-tailed sandpiper            |
|  | <i>Calidris temminckii</i>           | Temminck's stint                  |
|  | <i>Calidris ferruginea</i>           | Curlew sandpiper                  |
|  | <i>Calidris alpina</i>               | Dunlin                            |
|  | <i>Philomachus pugnax</i>            | Ruff                              |
|  | <i>Limicola facinellus</i>           | Broad-billed sandpiper            |
|  |                                      |                                   |
| <i>Laridae</i>   | <i>Sterna albifrons</i>              | Little tern                       |
| <b>PASSERIFORMES</b>   |                                      |                                   |
| <i>Muscicapidae</i><br>(includes sub-family<br>Sylvinae formerly listed<br>as Sylviidae) | <i>Muscicapa sibirica</i>            | Dark-sided flycatcher             |
|  | <i>Muscicapa dauurica</i>            | Asian brown flycatcher            |
|  | <i>Muscicapa griseisticta</i>        | Grey-streaked flycatcher          |
|  | <i>Muscicapa ferruginea</i>          | Ferruginous flycatcher            |
|  | <i>Ficedula narcissina</i>           | Narcissus flycatcher              |
|  | <i>Ficedula mugimaki</i>             | Mugimaki flycatcher               |
|  | <i>Ficedula parva</i>                | Red-breasted flycatcher           |
|  | <i>Cyanoptila cyanomelana</i>        | Blue and white flycatcher         |
|  | <i>Terpsiphone atrocaudata</i>       | Japanese paradise flycatcher      |
|  | <i>Phylloscopus fuscatus</i>         | Dusky warbler                     |
|  | <i>Phylloscopus schwarzi</i>         | Radde's warbler                   |
|  | <i>Phylloscopus ijimae</i>           | Ijimae's leaf-warbler             |
|  | <i>Phylloscopus borealis</i>         | Arctic warbler                    |
|  | <i>Acrocephalus orientalis</i>       | <b>Oriental reed-warbler</b>      |
|  | <i>Acrocephalus<br/>sorghophilus</i> | <b>Streaked reed-warbler*</b>     |
|  | <i>Locustella fasciolata</i>         | Gray's grasshopper-warbler        |
|  | <i>Locustella lanceolata</i>         | Lanceolated warbler               |
|  | <i>Locustella ochotensis</i>         | Middendorff's grasshopper-warbler |
|  | <i>Cettia diphone</i>                | Oriental bush warbler             |
| <b>REPTILES</b>  |                                      |                                   |
| <b>CROCODYLA</b>   |                                      |                                   |
| Crocodylidae   | <i>Crocodylus porosus</i>            | Saltwater crocodile               |
|  |                                      |                                   |
| <b>PISCES</b>  |                                      |                                   |

|                         |                               |                   |
|-------------------------|-------------------------------|-------------------|
| <b>Elasmobranchii</b>   |                               |                   |
| <b>ORECTOLOBIFORMES</b> |                               |                   |
| Rhincodontidae          | <i>Rhincodon typus</i>        | Whale shark       |
|                         |                               |                   |
| <b>LAMNIFORMES</b>      |                               |                   |
| Lamnidae                | <i>Carcharodon carcharias</i> | Great white shark |
|                         |                               |                   |

**Other Migratory Species Occuring in the Philippines**

| <b>Order/Family</b>      | <b>Scientific Name</b>  | <b>Common Name</b>        |
|--------------------------|---|---------------------------|
| <b>Mammals</b>           |   |                           |
| <b>CETACEA</b>           |   |                           |
| Balaenopteridae          | <i>Balaenoptera acutorostrata</i>   | Minke whale               |
| Delphinidae              | <i>Feresa attenuata</i>   | Pygmy killer whale        |
|                          | <i>Peponocephala electra</i>  | Melon-headed whale        |
|                          | <i>Pseudorca crassidens</i>   | False killer whale        |
|                          | <i>Globicephala macrorhynchus</i>   | Short-finned pilot whale  |
|                          | <i>Grampus griseus</i>  | Risso's dolphin           |
|                          | <i>Tursiops truncatus</i>   | Bottlenose dolphin        |
|                          | <i>Steno bredanensis</i>  | Rough-toothed dolphin     |
|                          | <i>Stenella coeruleoalba</i>  | Striped dolphin           |
| Ziphiidae                | <i>Mesoplodon densirostris</i>  | Blainville's beaked whale |
|                          | <i>Ziphius cavirostris</i>  | Cuvier's beaked whale     |
| Kogiidae                 | <i>Kogia simus</i>  | Dwarf sperm whale         |
|                          | <i>Kogia breviceps</i>  | Pygmy sperm whale         |
|                          |   |                           |
| <b>AVES</b>              |   |                           |
| <b>PODICIPEDIFORMES</b>  |   |                           |
| Podicipedidae            | <i>Podiceps nigricollis</i>   | Black-necked Grebe        |
| <b>PROCELLARIIFORMES</b> |   |                           |
| Procellariidae           | <i>Calonectris leucomelas</i>   | Streaked shearwater       |
| <b>PELECANIFORMES</b>    |   |                           |
|                          | <i>Pelecanus philippensis</i><br>(believed to be extinct with no record since 1940) | Spot billed pelican       |
|                          | <i>Phalacrocorax carbo</i>  |                           |

|                   |                                     |                         |
|-------------------|-------------------------------------|-------------------------|
| Phalacrocoracidae |                                     |                         |
|                   |                                     |                         |
| Fregatidae        | <i>Fregata minor palmertoni</i>     | Great frigate bird      |
|                   | <i>Fregata ariel</i>                | Lesser frigate bird     |
| CICONIFORMES      |                                     |                         |
| Ardeidae          | <i>Ardea cinerea</i>                | Grey heron              |
|                   | <i>Egretta alba</i>                 | Great egret             |
|                   | <i>Egretta intermedia</i>           | Intermediate egret      |
|                   | <i>Egretta garzetta</i>             | Little egret            |
|                   | <i>Ardeola bacchus</i>              | Chinese pond heron      |
|                   | <i>Butorides striatus amurensis</i> | Little heron            |
|                   | <i>Bubulcus ibis</i>                | Cattle egret            |
|                   | <i>Nycticorax nycticorax</i>        | Black night heron       |
|                   | <i>Ixobrychus eurhythmus</i>        | Schrenck's bittern      |
|                   | <i>Botaurus stellaris</i>           | Great bittern           |
| Threskiornithidae | <i>Threskiornis melanocephalus</i>  | Black-headed ibis       |
|                   |                                     |                         |
| GALLIFORMES       |                                     |                         |
| Phasianidae       | <i>Coturnix japonica</i>            | Japanese quail          |
| Rallidae          | <i>Rallina fasciata</i>             | Red-legged crake        |
|                   | <i>Gallinula chloropus indica</i>   | Common moorhen          |
|                   | <i>Fulica atra</i>                  | Eurasian coot           |
| Haematopodidae    | <i>Haematopus ostralegus</i>        | Eurasian oyster catcher |
| Phalaropodidae    | <i>Phalaropus fulicaria</i>         | Red Phalarope           |
|                   | <i>Phalaropus lobatus</i>           | Red-necked Phalarope    |
| Glareolidae       | <i>Glareola maldivarum</i>          | Oriental Pratincole     |
|                   | <i>Recurvirostra avosetta</i>       | Pied Avocet             |
| Stercorariidae    | <i>Stercorarius pomarinus</i>       | Pomarine Jaeger         |
| Laridae           | <i>Larus argentatus</i>             | Herring Gull            |
|                   | <i>Larus schistisagus</i>           | Slaty-backed Gull       |
|                   | <i>Larus crassirostris</i>          | Black-tailed Gull       |
|                   | <i>Larus ridibundus</i>             | Black-headed Gull       |
| Sternidae         | <i>Hydroprogne caspia</i>           | Caspian Tern            |
|                   | <i>Gelochelidon nilotica</i>        | Gull-billed Tern        |
|                   | <i>Sterna bernsteini</i>            | Chinese Crested Tern    |
|                   | <i>Sterna hirundo</i>               | Common Tern             |
|                   | <i>Sterna aleutica</i>              | Aleutian Tern           |
|                   | <i>Sterna fuscata</i>               | Sooty Tern              |
|                   | <i>Sterna albifrons</i>             | Little Tern             |
|                   | <i>Chlidonias leucopterus</i>       | White-winged Tern       |
|                   | <i>Chlidonias hybridus</i>          | Whiskered Tern          |

|                  |                                 |                               |
|------------------|---------------------------------|-------------------------------|
| CUCULIFORMES     |                                 |                               |
| Cuculidae        | <i>Clamator coromandus</i>      | Chestnut-winged Cuckoo        |
|                  | <i>Cuculus sparverioides</i>    | Large Hawk-Cuckoo             |
|                  | <i>Cuculus saturatus</i>        | Oriental Cuckoo               |
|                  | <i>Cuculus micropterus</i>      | Indian Cuckoo                 |
| STRIGIFORMES     |                                 |                               |
| Strigidae        | <i>Ninox scutulata</i>          | Brown Hawk-Owl                |
|                  | <i>Asio flammeus</i>            | Short-Eared Owl               |
| CAPRIMULGIFORMES |                                 |                               |
| Caprimulgidae    | <i>Caprimulgus indicus</i>      | Grey Nightjar                 |
| APODIFORMES      |                                 |                               |
| Apodidae         | <i>Alcedo pacificus</i>         | Fork-tailed Swift             |
| CORACIIFORMES    |                                 |                               |
| Alcedinidae      | <i>Alcedo atthis</i>            | Common Kingfisher             |
|                  | <i>Halcyon chloris</i>          | Ruddy Kingfisher              |
|                  | <i>Halcyon pileata</i>          | Black-capped Kingfisher       |
| Upupidae         | <i>Upupa epops</i>              | Hoopoe                        |
| PASSERIFORMES    |                                 |                               |
| Pittidae         | <i>Pitta moluccensis</i>        | Blue-winged Pitta             |
| Hirundinidae     | <i>Riparia riparia</i>          | Sand Martin                   |
|                  | <i>Hirundo rustica</i>          | Barn Swallow                  |
|                  | <i>Hirundo daurica</i>          | Red-rumped Swallow            |
|                  | <i>Delichon dasypus</i>         | Asian House-Martin            |
| Campephagidae    | <i>Pericrocotus divaricatus</i> | Ashy Minivet                  |
| Motacillidae     | <i>Dendronanthus indicus</i>    | Forest Wagtail                |
|                  | <i>Motacilla flava</i>          | Yellow Wagtail                |
|                  | <i>Motacilla cinerea</i>        | Grey Wagtail                  |
|                  | <i>Montacilla alba</i>          | White Wagtail (=Pied Wagtail) |
|                  | <i>Anthus novaeseelandiae</i>   | Richard's Pipit               |
|                  | <i>Anthus gustavi</i>           | Petchora Pipit                |
|                  | <i>Anthuss hodgsoni</i>         | Olive Tree Pipit              |
| Motacillidae     | <i>Anthus cervinus</i>          | Red-throated Pipit            |
| Dicruridae       | <i>Dicrurus annectans</i>       | Crow-billed Drongo            |
| Turdidae         | <i>Luscinia calliope</i>        | Siberian Rubythroat           |
|                  | <i>Luscinia cyane</i>           | Siberian Blue Robin           |
|                  | <i>Phoenicurus aureus</i>       | Daurian Redstart              |
|                  | <i>Oenanthe oenanthe</i>        | Northern Wheatear             |
|                  | <i>Monticola solitarius</i>     | Blue Rock-Thrush              |
|                  | <i>Zoothera dauma</i>           | Scaly Ground-Thrush           |
|                  | <i>Turdus chrysolaus</i>        | Brown-headed Thrush           |
|                  | <i>Turdus pallidus</i>          | Pale Thrush                   |
|                  | <i>Turdus obscurus</i>          | Eyebrowed Thrush              |
|                  | <i>Zoothera dauma aurea</i>     | Scaly Ground-Thrush           |
| Laniidae         | <i>Lanius cristatus</i>         | Brown Shrike                  |
|                  | <i>Lanius tigrinus</i>          | Tiger Shrike                  |

|              |                                 |                           |
|--------------|---------------------------------|---------------------------|
|              | <i>Lanius tigrinus</i>          | Tiger Shrike              |
| Sturnidae    | <i>Sturnus sinensis</i>         | White-shouldered Starling |
|              | <i>Sturnus philippensis</i>     | Chesnut-cheeked Starling  |
|              | <i>Sturnus cineraceus</i>       | Grey Starling             |
| Fringillidae | <i>Fringilla montifringilla</i> | Brambling                 |
|              | <i>Carduelis spinus</i>         | Eurasian Siskin           |
| Emberizidae  | <i>Emberiza pusilla</i>         | Little Bunting            |
|              | <i>Emberiza aureola aureola</i> | Yellow-breasted Bunting   |
|              | <i>Emberiza sulphurata</i>      | Yellow Bunting            |
|              |                                 |                           |