



2017 - NATIONAL REPORT OF PARTIES ON THE IMPLEMENTATION OF THE CONVENTION ON THE CONSERVATION OF MIGRATORY SPECIES OF WILD ANIMALS

The deadline for submission of the reports is 24 April 2017. The reporting period is from May 2014 to April 2017.

Parties are encouraged to respond to all questions. Parties are also requested to provide comprehensive answers, including, where appropriate, a summary of activities, information on factors limiting action and details of any assistance required.

The reporting format was agreed by the Standing Committee at its 40th Meeting (Bonn, November 2012) for mandatory use by Parties, for reports submitted to the Eleventh Meeting of the Conference of the Parties (COP11). The 45th meeting of the Standing Committee recommended the use of the same format for reports submitted to COP12, with necessary adjustments to take into account relevant COP11 decisions, in particular amendments to the Appendices and resolutions.

COP Resolution 9.4 adopted at Rome called upon the Secretariats and Parties of CMS Agreements to collaborate in the implementation and harmonization of online reporting implementation. The CMS Family Online Reporting System (ORS) has been successfully implemented and used by AEWA in their last Meeting of the Parties (MOP 5, 2012) reporting cycle. CMS now offers the Convention's Parties to use the ORS for submitting their national reports for the COP11 (2014) reporting cycle.

Please enter here the name of your country

> Pakistan

Which agency has been primarily responsible for the preparation of this report?

> Forestry Wing, Ministry of Climate Change, Government of Pakistan, Islamabad

Please list any other agencies that have provided input

> Zoological Survey of Pakistan, Pakistan Museum of Natural History, Marine Fisheries Department, National Institute of Oceanography, Provincial/Territorial Wildlife Departments of; four provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan), Gilgit-Baltistan, Azad Jammu and Kashmir and Capital Development Authority Islamabad

I(a). General Information

Please enter the required information in the table below:

Party

Date of entry into force of the Convention in your country

> 01-12-1987

Period covered

> 29 years

Territories to which the Convention applies

> Entire Country

Designated National Focal Point

Full name of the institution

> Forestry Wing, Ministry of Climate Change, Government of Pakistan, Islamabad

Name and title of designated Focal Point

> Syed Mahmood Nasir,
Inspector General Forests

Mailing address

> Local Government and Rural Development (LG & RD) Complex, Sector G.5/2, Islamabad, Pakistan

Telephone

> (+92) 51 9245589

Fax

> (+92) 51 9245590

E-mail

> igf.moenv@gmail.com; igf@ccd.gov.pk

Appointment to the Scientific Council

Full name of the institution

> Forestry Wing, Ministry of Climate Change, Government of Pakistan, Islamabad

Name and title of contact officer

> Mr. Umeed Khalid,
Conservator Wildlife

Mailing address

> Office of the Conservator Wildlife, LG & RD Complex, G-5/2 Islamabad, Pakistan

Telephone

> (+92) 51 9245586

Fax

> (+92) 51 9245590

E-mail

> umeed_khalid@yahoo.com, conwf@ccd.gov.pk

Submission

Name and Signature of officer responsible for submitting national report

Name:

> Mr. Umeed Khalid,
Conservator Wildlife

Address:

> Office of the Conservator Wildlife, LG & RD Complex, G-5/2 Islamabad, Pakistan

Tel.:
> (+92) 51 9245586

Fax:
> (+92) 51 9245590

E-mail:
> umeed_khalid@yahoo.com, conwf@ccd.gov.pk

Date of submission

> 3rd April 2017

Membership of the Standing Committee (if applicable):

Name:
> N/A

Address
> N/A

Tel
> N/A

Fax
> N/A

E-mail
> N/A

Implementation

Competent Authority:
> Inspector General Forests,
Forestry Wing, Ministry of Climate Change, Government of Pakistan, Islamabad

Relevant implemented legislation:
> Provincial/Territorial Wildlife Laws,
The Pakistan Trade Control of Wild Fauna and Flora Act, 2012,
The Pakistan Environmental Protection Act, 1997,
Customs Act, 1969 (Export Policy Order),
Pakistan Fish Inspection and Quality Control Act, 1997
The Pakistan Fish Inspection and Quality Control Rules, 1998,
The Exclusive Fishing Zone (Regulation of Fishing) Act, 1975, (amendment 1993),
The Sindh Fisheries Ordinance, 1980,
The Balochistan Sea Fisheries Act No. IX, 1971.

Other relevant Conventions/ Agreements (apart from CMS) to which your country is a Party:
> Ramsar, CITES, CBD, UNCCD

National policy instruments (e.g. national biodiversity conservation strategy, etc.):
> National Conservation Strategy, Biodiversity Action Plan, National Strategy & Action Plan for MFF, Climate Change Policy

CMS Agreements/MoU

Please indicate whether your country is part of the following Agreements/MoU. If so, please indicate the competent national institution

Wadden Sea Seals (1991)

Wadden Sea Seals (1991)

Non Range State

EUROBATS (1994)

EUROBATS (1994)

Non Range State

ASCOBANS (1994)

ASCOBANS (1994)

Non Range State

AEWA (1999)

AEWA (1999)

Non Range State

ACAP (2001)

ACAP (2001)

Non Range State

Gorilla Agreement (2008)

Gorilla Agreement (2008)

Non Range State

ACCOBAMS (2001)

ACCOBAMS (2001)

Non Range State

Siberian Crane MoU (1993/1999)

Siberian Crane MoU (1993/1999)

Signatory

Competent authority

Name

> Syed Mahmood Nasir, Inspector General Forests,
Forestry Wing, Ministry of Climate Change, Government of Pakistan

Address

> Local Government and Rural Development Complex (LG & RD Complex), Sector G.5/2 Islamabad, Pakistan.

Tel

> (+92) 051 9245589

Fax

> (+92) 051 9245590

E-mail

> igf.moenv@gmail.com; igf@ccd.gov.pk

Contact point

Name

> Mr. Muhammad Samar Hussain Khan, Assistant Secretary (Wildlife),
Forestry Wing, Ministry of Climate Change, Government of Pakistan

Address

> Office of the Conservator Wildlife, Local Government and Rural Development Complex (LG & RD Complex),
Sector G.5/2 Islamabad, Pakistan.

Tel

> (+92) 051 9245743

Fax

> (+92) 051 9245590

E-mail

> samar_baloch@yahoo.com, asecywf@ccd.gov.pk

Slender-billed Curlew MoU (1994)

Slender-billed Curlew MoU (1994)

Non Range State

Atlantic Turtles MoU (1999)

Atlantic Turtles MoU (1999)

Non Range State

Middle-European Great Bustard MoU (2001)

Middle-European Great Bustard MoU (2001)

Non Range State

IOSEA Marine Turtles MoU (2001)

IOSEA Marine Turtles MoU (2001)

Signatory

Competent authority

Name

> Syed Mahmood Nasir, Inspector General Forests
Forestry Wing, Ministry of Climate Change, Government of Pakistan

Address

> Local Government and Rural Development Complex (LG & RD Complex), Sector G.5/2 Islamabad, Pakistan.

Tel

> (+92) 051 9245589

Fax

> (+92) 051 9245590

E-mail

> igf.moenv@gmail.com, igf@ccd.gov.pk

Contact point

Name

> Mr. Abdul Munaf Qaimkhani, Deputy Inspector General Forests II,
Forestry Wing, Ministry of Climate Change, Government of Pakistan

Address

> Local Government and Rural Development Complex (LG & RD Complex), Sector G.5/2 Islamabad, Pakistan.

Tel

> (+92) 051 9245585

Fax

> (+92) 051 9245590

E-mail

> amqaimkhani@yahoo.com, digf2@ccd.gov.pk

Bukhara Deer MoU (2002)

Bukhara Deer MoU (2002)

Non Range State

Aquatic Warbler MoU (2003)

Aquatic Warbler MoU (2003)

Non Range State

West African Elephants MoU (2005)

West African Elephants MoU (2005)

Non Range State

Pacific Islands Cetaceans MoU (2006)

Pacific Islands Cetaceans MoU (2006)

Non Range State

Western African Aquatic Mammals MoU (2008)

Western African Aquatic Mammals MoU (2008)

Non Range State

Birds of Prey (Raptors) MoU (2008)

Birds of Prey (Raptors) MoU (2008)

Signatory

Competent authority

Name

> Syed Mahmood Nasir, Inspector General Forests
Ministry of Climate Change, Government of Pakistan.

Address

> Ministry of Climate Change, Local Government and Rural Development Complex (LG & RD Complex), Sector G.5/2 Islamabad, Pakistan.

Tel

> (+92) 051 9245589

Fax

> (+92) 051 9245590

E-mail

> igf.moenv@gmail.com, igf@ccd.gov.pk

Contact point

Name

> Mr. Muhammad Samar Hussain Khan, Assistant Secretary (Wildlife),
Forestry Wing, Ministry of Climate Change, Government of Pakistan

Address

> Office of the Conservator Wildlife, Ministry of Climate Change, Local Government and Rural Development Complex (LG & RD Complex), Sector G.5/2 Islamabad, Pakistan.

Tel

> (+92) 051 9245743

Fax

> (+92) 051 9245590

E-mail

> samar_baloch@yahoo.com, asecywf@ccd.gov.pk

High Andean Flamingos MoU (2008)

High Andean Flamingos MoU (2008)

Non Range State

Sharks MoU (2010)

Sharks MoU (2010)

Non Range State

Involvement of other government departments/NGOs/private sector

1. Which other government departments are involved in activities/initiatives for the conservation of migratory species in your country? (Please list.)

> Zoological Survey of Pakistan, Pakistan Museum of Natural History, Marine Fisheries Department, National Institute of Oceanography, Provincial Fisheries Department of Sindh and Balochistan, Provincial/Territorial Wildlife Departments of; four provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan), Gilgit-Baltistan, Azad Jammu and Kashmir and Capital Development Authority Islamabad.

2. If more than one government department is involved, describe the interaction/relationship between these government departments:

> At Federal level Forestry Wing, Ministry of Climate Change coordinates and collaborates with the provincial/territorial authorities on biodiversity related issues and for implementation of biodiversity related conventions and MoUs

3. Has a national liaison system or committee been established in your country?

No

4. List the main non-governmental organizations actively involved in activities/initiatives for the conservation of migratory species in your country, and describe their involvement:

> WWF Pakistan, IUCN Pakistan, Houbara Foundation International Pakistan, Falcon Foundation International Pakistan, Himalayan Wildlife Foundation, Snow Leopard Foundation, SWAN (Save Wildlife & Nature). Mainly involved in the activities related to survey's, awareness raising, capacity building, research and monitoring.

4a. Please provide detail on any devolved government/overseas territory authorities involved.

> Nil

5. Describe any involvement of the private sector in the conservation of migratory species in your country:

> Private sector including including different industries fund NGOs in different conservation activities including celebration of biodiversity related days and publication of awareness material.

6. Note any interactions between these sectors in the conservation of migratory species in your country:

> Involved in the Turtle beaches cleanliness and other conservation activities including celebration of biodiversity related days and publication of awareness material..

I(b). Information about involved Authorities

Identify the ministry, agency/department or organization that is responsible for leading actions relating to Appendix I species

1- Birds

> Forestry Wing Ministry of Climate Change, Zoological Survey of Pakistan, Pakistan Museum of Natural History, Provincial Wildlife Departments of; provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan), Gilgit-Baltistan, Azad Jammu& Kashmir and Capital Development Authority Islamabad.

2- Aquatic Mammals

> Forestry Wing Ministry of Climate Change, Zoological Survey of Pakistan, Pakistan Museum of Natural History, Marine Fisheries Department, National Institute of Oceanography, Provincial/Territorial Wildlife Departments of four provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan)

3- Reptiles

> Forestry Wing Ministry of Climate Change, Zoological Survey of Pakistan, Pakistan Museum of Natural History, Provincial Wildlife Departments of; provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan), Gilgit-Baltistan, Azad Jammu& Kashmir and Capital Development Authority Islamabad

4- Terrestrial Mammals

> Forestry Wing Ministry of Climate Change, Zoological Survey of Pakistan, Pakistan Museum of Natural History, Provincial Wildlife Departments of; provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan), Gilgit-Baltistan, Azad Jammu& Kashmir and Capital Development Authority Islamabad

5- Fish

> Forestry Wing Ministry of Climate Change, Zoological Survey of Pakistan, Pakistan Museum of Natural History, Marine Fisheries Department, National Institute of Oceanography, Provincial Fisheries Departments of; four provinces (Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan), Gilgit-Baltistan, Azad Jammu& Kashmir and Capital Development Authority Islamabad.

II. Appendix I species

1. BIRDS

1.1 General questions on Appendix I bird species

1. Is the taking of all Appendix I bird species prohibited by the national implementing legislation cited in Table I(a) (General Information)?

Yes

If other legislation is relevant, please provide details:

> Appendix I birds species found in Pakistan are protected under the provincial/territorial wildlife laws. The protected birds cannot be hunted, killed or captured. Moreover export of protected birds is also prohibited.

1a. If the taking of Appendix I bird species is prohibited by law, have any exceptions been granted to the prohibition?

No

2. Identify any obstacles to migration that exist in relation to Appendix I bird species:

Electrocutation

Habitat destruction

Wind turbines

Pollution

Other

> Illegal hunting and trade.

2a. What actions are being undertaken to overcome these obstacles?

> - For all mega developmental projects, Environmental Impact Assessment has been made obligatory.

- CMS guidelines to avoid birds collision and electrocutation, are recommended in all power lines projects.

- For conservation and preservation of species a system of protected areas has been established in the country which comprise of more than 12% of the total area of Pakistan.

- Effective watch and ward is maintained by staff of provincial/territorial wildlife departments to control illegal hunting and trade.

2b. Please report on the progress / success of the actions taken.

> Due to different on going initiatives a positive change is expected in future.

2c. What assistance, if any, does your country require in order to overcome these obstacles?

> • Financial and technical support from donors

• Improved coordination among range states and sharing of best practices in conservation of species

• Training in recent advance technology e.g. radio-tracking

• Sharing of research findings on migratory species

3. What are the major pressures to Appendix I bird species (transcending mere obstacles to migration)?

Illegal trade

Poaching

3a. What actions have been taken to prevent, reduce or control factors that are endangering or are likely to further endanger bird species beyond actions to prevent disruption to migrating behaviour?

> • Strict enforcement of Provincial/Territorial Laws

• Involvement of local stakeholders e.g. communities

• The Government of Khyber-Pakhtunkhwa province has declared an area of 81000 hectares of Indus River in D.I Khan as a Crane Reserve.

• A Crane Refugee has been established over an area of 20 km of prime crane habitat at the confluence of Kurram and Gambeela Rivers in Lakki, Khyber-Pakhtunkhwa.

• A waterfowl refuge has been established over 20 km in Dera Ismail Khan District along the new Indus Bridge.

• Two sites in Pakistan (Thanedar Wala Game Reserve and Taunsa Barrage Wildlife Sanctuary) have been listed in Western/Central Asia Site Network for the Siberian Crane (WCASN-SC) and other waterbirds. These are potentially important sites for reintroduction of Siberian Crane in future. Strict enforcement of wildlife laws is being ensured at these sites.

3b. Please report on the progress / success of the actions taken.

> - The Provincial Wildlife Authorities check illegal hunting of migratory birds within their limited available

financial and human resources.

- A number of community based organizations have been mobilized and registered for nature conservation and to protect resident and migratory species

3c. Describe any factors that may limit action being taken in this regard:

> Financial and capacity constraints and remoteness of the habitats.

3d. What assistance, if any, does your country require to overcome these factors?

- > • Financial and technical support from donors
- Improved coordination amongst range states and sharing of best practices
- Training in recent advance technology e.g. radio-tracking
- Sharing of research findings on migratory species

1.2 Questions on specific Appendix I bird species

In the following section, using the table format below, please fill in each Appendix I bird species for which your country is considered to be a Range State. Please complete each table as appropriate, providing information in summary form. Where appropriate, please cross-reference to information already provided in national reports that have been submitted under other conventions (e.g. Convention on Biological Diversity, Ramsar Convention, CITES). (Attach annexes as necessary.)

Species name: *Aquila clanga*

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

not known

2b. Summarise information on distribution (if known):

not known

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: *Aquila heliaca*

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

not known

2b. Summarise information on distribution (if known):

not known

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: Aythya nyroca

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- not known

2b. Summarise information on distribution (if known):

- stable

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

- > To continue the existing conservation activities.

Species name: Falco naumanni

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- not known

2b. Summarise information on distribution (if known):

- unclear

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Education/awareness rising
- Species protection
- Control hunting / poaching

5. Describe any future activities that are planned for this species:

- > To continue the existing conservation activities.

Species name: Grus leucogeranus

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- unclear

- > The central population of species used to visit Pakistan but now it is considered extinct.

2b. Summarise information on distribution (if known):

- unclear

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: *Haliaeetus albicilla*

1. Please provide published distribution reference:

> - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

not known

2b. Summarise information on distribution (if known):

not known

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

Education/awareness rising

Species protection

Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: *Marmaronetta angustirostris*

1. Please provide published distribution reference:

> - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

decreasing

2b. Summarise information on distribution (if known):

decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

Research

Monitoring

Education/awareness rising

Species protection

Control hunting / poaching

Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: *Oxyura leucocephala*

1. Please provide published distribution reference:

> - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

decreasing

2b. Summarise information on distribution (if known):

decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

Research

Identification and establishment of protected areas

Monitoring

Education/awareness rising

- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: Pelecanus crispus

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

not known

- > - There is lack of reliable data on its population status and trend
- Its estimated wintering population ranges from 1000-3000 birds and trend is stable (WWF-Pakistan)

2b. Summarise information on distribution (if known):

stable

- > - Dalmatian pelican is winter visitor and passage migrant
- It is also irregular year round visitor in the country
- It winters mainly in coastal wetlands of Sindh and Balochistan province
- Important wintering areas of species in Sindh and Balochistan include; Hingol National Park, Miani Hor, Jiwani, Gawadar, Hawksbay, Jubho Lagoon, Nurri Lagoon, Astola Island, Kalmat Hor, Pasni and Ormara

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Identification and establishment of protected areas
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> AEWA Single Species Action Plan for the Conservation of the Dalmatian Pelican is being developed and will be implemented across its range.

Species name: Vanellus gregarius

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

decreasing

2b. Summarise information on distribution (if known):

decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing conservation activities.

Species name: Neophron percnopterus

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- not known

2b. Summarise information on distribution (if known):

- stable

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Monitoring
- Education/awareness rising
- Species protection
- Habitat protection

5. Describe any future activities that are planned for this species:

- > A National Vulture Conservation Strategy and Action Plan 2016-2025 has been developed which will be aligned with CMS Multi Species Action Plan for African and Eurasian Vultures.

Species name: Falco cherrug (except Mongolian populations)

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- decreasing

2b. Summarise information on distribution (if known):

- decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

- > To continue the existing conservation activities.

Species name: Otis tarda

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- unclear

2b. Summarise information on distribution (if known):

- unclear

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

- > To continue the existing conservation activities.

Species name: *Calidris tenuirostris*

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- not known

2b. Summarise information on distribution (if known):

- not known

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Monitoring
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

- > To continue the existing conservation activities.

Species name: *Coracias garrulus*

1. Please provide published distribution reference:

- > - Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
- Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

2a. Summarise information on population size (if known):

- not known

2b. Summarise information on distribution (if known):

- stable

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

- > To continue existing activities.

Miscellaneous information or comments on Appendix I birds in general:

- > Nil

2. AQUATIC MAMMALS

2.1 General questions on Appendix I aquatic mammals

1. Is the taking of all Appendix I aquatic mammals species prohibited by the national implementing legislation cited in Table I(a) (General Information)?

- Yes

1a. If the taking of Appendix I aquatic mammals species is prohibited by law, have any exceptions been granted to the prohibition?

- No

2. Identify any obstacles to migration that exist in relation to Appendix I aquatic mammals:

- By-catch
- Collision with fishing traffic
- Pollution

2a. What actions are being undertaken to overcome these obstacles?

- > Research and Surveys of Cetaceans; Awareness campaign for fishermen community Disaster mitigation /

management plan in case of major oil spills.

2b. Please report on the progress / success of the actions taken.

> A positive change is expected in future

2c. What assistance, if any, does your country require in order to overcome these obstacles?

- > - Financial and technical support from donors
- Improved coordination amongst range states
- Training and capacity building

3. What are the major pressures to Appendix I aquatic mammals species (transcending mere obstacles to migration)?

By-catch

3a. What actions have been taken to prevent, reduce or control factors that are endangering or are likely to further endanger aquatic mammals species beyond actions to prevent disruption to migrating behaviour?

> Awareness of the fishermen communities and training them for safe release of accidentally caught cetaceans.

3b. Please report on the progress / success of the actions taken.

> A positive change is expected in future

3c. Describe any factors that may limit action being taken in this regard:

> Limited financial and technical capacity

3d. What assistance, if any, does your country require to overcome these factors?

> Financial and technical support from donors
Improved cooperation between range states

2.2 Questions on specific Appendix I aquatic mammals

In the following section, using the table format below, please fill in each Appendix I aquatic mammals species for which your country is considered to be a Range State. Please complete each table as appropriate, providing information in summary form. Where appropriate, please cross-reference to information already provided in national reports that have been submitted under other conventions (e.g. Convention on Biological Diversity, Ramsar Convention, CITES). (Attach annexes as necessary.)

Species name: *Balaenoptera musculus*

1. Please provide published distribution reference:

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

2a. Summarise information on population size (if known):

not known

2b. Summarise information on distribution (if known):

unclear

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Monitoring
- Education / awareness rising
- Species protection
- Control hunting / poaching

5. Describe any future activities that are planned for this species:

> To continue the existing activities.

Species name: *Balaenoptera physalus*

1. Please provide published distribution reference:

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

2a. Summarise information on population size (if known):

unclear

2b. Summarise information on distribution (if known):

unclear

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

Research

Monitoring

Education / awareness rising

Species protection

Control hunting / poaching

Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing activities.

Species name: Megaptera novaeangliae

1. Please provide published distribution reference:

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

2a. Summarise information on population size (if known):

decreasing

2b. Summarise information on distribution (if known):

decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

Research

Monitoring

Education / awareness rising

Species protection

Control hunting / poaching

Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing activities.

Miscellaneous information or comments on Appendix I marine mammals in general:

> Nil

3. REPTILES

3.1 General questions on Appendix I reptiles

1. Is the taking of all Appendix I reptiles species prohibited by the national implementing legislation cited in Table I(a) (General Information)?

Yes

1a. If the taking of Appendix I reptiles species is prohibited by law, have any exceptions been granted to the prohibition?

No

2. Identify any obstacles to migration that exist in relation to Appendix I reptiles species:

By-catch

2a. What actions are being undertaken to overcome these obstacles?

> Use of TED, Awareness campaign for fishermen community, Protection under the laws

2b. Please report on the progress / success of the actions taken.

> A positive change is expected in future

2c. What assistance, if any, does your country require in order to overcome these obstacles?

> Financial and technical support from donors

Improved coordination amongst range states

3. What are the major pressures to Appendix I reptiles species (transcending mere obstacles to migration)?

- Collection of eggs
- Predation of eggs
- Destruction of nesting beaches

3a. What actions have been taken to prevent, reduce or control factors that are endangering or are likely to further endanger reptiles species beyond actions to prevent disruption to migrating behaviour?

- > - Predation of eggs usually by the stray dogs and other species is being controlled.
- Specific EIAs have been made mandatory for any mega developmental projects along the coastline in critical habitats.
- Initiating of education and awareness activities among coastal communities and students.

3b. Please report on the progress / success of the actions taken.

- > Level of awareness increased. Management practices are improved and further positive changes in the behaviour of local people and relevant authorities are expected in future

3c. Describe any factors that may limit action being taken in this regard:

- > - Un-planned coastal development.
- Increased coastal & deep-sea fishing pressure.
- Limited technical and financial capacity.

3d. What assistance, if any, does your country require to overcome these factors?

- > Financial and technical support from donors.
- Improved coordination amongst range states.

3.2 Questions on specific Appendix I reptiles

In the following section, using the table format below, please fill in each Appendix I reptiles species for which your country is considered to be a Range State. Please complete each table as appropriate, providing information in summary form. Where appropriate, please cross-reference to information already provided in national reports that have been submitted under other conventions (e.g. Convention on Biological Diversity, Ramsar Convention, CITES). (Attach annexes as necessary.)

Species name: *Chelonia mydas*

1. Please provide published distribution reference:

- > Khan, Muhammad Sharif. Amphibians and reptiles of Pakistan. Malabar, Florida, USA: Krieger Publishing Company, 2006.

2a. Summarise information on population size (if known):

- stable

2b. Summarise information on distribution (if known):

- stable

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Identification and establishment of protected areas

> Under process

- Monitoring
- Education/awareness rising
- Species protection

> Turtle hatchery has been established

- Control hunting / poaching
- Species restoration
- Habitat protection

4. If no activities have been carried out for this species in the reporting period, what has prevented such action being taken?

- > N.A

5. Describe any future activities that are planned for this species:

- > To continue the existing activities.

Species name: *Lepidochelys olivacea*

1. Please provide published distribution reference:

> Khan, Muhammad Sharif. Amphibians and reptiles of Pakistan. Malabar, Florida, USA: Krieger Publishing Company, 2006.

2a. Summarise information on population size (if known):

decreasing

2b. Summarise information on distribution (if known):

decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing activities.

Miscellaneous information or comments on Appendix I marine turtles in general:

> Nil

4. TERRESTRIAL MAMMALS

4.1 General questions on Appendix I terrestrial mammals

1. Is the taking of all Appendix I terrestrial mammals species prohibited by the national implementing legislation cited in Table I(a) (General Information)?

Yes

1a. If the taking of Appendix I terrestrial mammals species is prohibited by law, have any exceptions been granted to the prohibition?

No

2. Identify any obstacles to migration that exist in relation to Appendix I terrestrial mammals species:

- Lack of information
- Habitat fragmentation
- Poaching
- Lack of trans-boundary management
- Man-made barriers
- Poor communication amongst Range States
- Climate change and drought

2a. What actions are being undertaken to overcome these obstacles?

> Provincial/territorial wildlife departments undertake various activities for conservation and protection of endangered species. In these efforts, there is active collaboration and supports from NGOs; Snow Leopard Foundation Pakistan, WWF Pakistan, --- --Himalayan Wildlife Foundation and IUCN. Conservation activities include:

- Legal Protection
- Establishment of Protected Areas
- Watch and Ward
- Research and monitoring
- Resolving human wildlife conflict
- Providing incentives to local communities through community-based trophy hunting programme

2b. Please report on the progress / success of the actions taken.

> A positive change is expected in future

2c. What assistance, if any, does your country require in order to overcome these obstacles?

> Assistance to build the technical and financial capacity

3. What are the major pressures to Appendix I terrestrial mammals species (transcending mere obstacles to migration)?

- Illegal trade
- Poaching
- Lack of information
- Habitat fragmentation

3a. What actions have been taken to prevent, reduce or control factors that are endangering or are likely to further endanger terrestrial mammals species beyond actions to prevent disruption to migrating behaviour?

> Conservation activities include:

- Legal Protection
- Establishment of Protected Areas
- Watch and Ward
- Research and monitoring
- Community participation in conservation activities

3b. Please report on the progress / success of the actions taken.

> A positive change is expected in future

3c. Describe any factors that may limit action being taken in this regard:

> Remoteness of the areas and limited resources

3d. What assistance, if any, does your country require to overcome these factors?

> Financial and technical support from donors, Improved coordination amongst range states

4.2 Questions on specific Appendix I terrestrial mammals

In the following section, using the table format below, please fill in each Appendix I terrestrial mammal species for which your country is considered to be a Range State. Please complete each table as appropriate, providing information in summary form. Where appropriate, please cross-reference to information already provided in national reports that have been submitted under other conventions (e.g. Convention on Biological Diversity, Ramsar Convention, CITES). (Attach annexes as necessary.)

Species name: *Uncia uncia*

1. Please provide published distribution reference:

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

2a. Summarise information on population size (if known):

stable

> Distribution and Status: In Pakistan Snow leopard is found in northern mountainous systems; Hindu Kush, Pamirs, Karakoram, and Himalayas. An estimate of 200-420 snow leopards, exist across Khyber-Pakhtunkhwa, Gilgit-Baltistan and Azad Jammu and Kashmir. A national-level assessment deemed the species "critically endangered" within the country (Sheikh and Malour, 2004).

2b. Summarise information on distribution (if known):

decreasing

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

Research

> To enhance understanding of the species many research activities have been undertaken on various aspects that include; population status and distribution, habitat mapping, ecology, food habits, ranging movements, as well as to properly document human-leopard conflicts in its range.

Identification and establishment of protected areas

> For conservation and preservation of the species a system of protected areas has been established in the country. In Pakistan total protected area comprise of more than 12% of the total area.

Monitoring

Education/awareness rising

> Awareness raising activities are undertaken to increase acceptance of big cats by highlighting their importance and role in ecosystem. Local communities, students and other stakeholders are involved in these campaigns.

Species protection

> Snow leopard is " Protected" under respective provincial wildlife legislations and their hunting, killing and capturing has been completely banned. Any violation is punishable with imprisonment or a fine or with both.

Control hunting / poaching

Species restoration

Habitat protection

> Activities to protect and restore habitat of the big cats include; protecting forests, stabilizing landslides and providing alternative energy to local communities to reduce pressure on forest for fuelwood.

Other

> • Community-based Trophy Hunting Programme: Trophy hunting of wild ungulates (Markhor, Urial, Ibex and Blue Sheep) is being successfully implemented in Pakistan and is world recognized. The local communities get 80% shares of the revenue generated, which is used for their socioeconomic uplift, in return the communities protect wildlife with a sense of ownership. This programme has great potential in changing public attitude toward wildlife.

• Predator Proof Corrals: To reduce livestock depredation by big cats predator proof corrals are being constructed in big cats habitat areas.

• Livestock Vaccination: To control transmission of disease from livestock to wildlife and vice versa livestock vaccination is carried out in big cat habitats.

• Livestock Insurance Scheme: To address community grievances from big cat's depredations livestock insurance scheme has been launched in some areas. Scope of these schemes is to be extended in other areas.

4. If no activities have been carried out for this species in the reporting period, what has prevented such action being taken?

> Nil

5. Describe any future activities that are planned for this species:

> Implementation of National Snow Leopard Ecosystem Recovery Program (NSLEP) under Global Snow Leopard Ecosystem Recovery Program (GSLEP). Management planning of selected snow leopard landscapes is underway that are to be secured by 2020.

Miscellaneous information or comments on Appendix I terrestrial mammals in general:

> Nil

5. FISH

5.1 General questions on Appendix I fish species

1. Is the taking of all Appendix I fish species prohibited by the national legislation listed as being implementing legislation in Table I(a) (General Information)?

Yes

1a. If the taking of Appendix I fish species is prohibited by law, have any exceptions been granted to the prohibition?

No

2. Identify any obstacles to migration that exist in relation to Appendix I fish species:

Other

> Bycatch in fishing gears

2a. What actions are being undertaken to overcome these obstacles?

> Government of Sindh province has amended Sindh Fisheries Ordinance, 1980 and including many species including CMS Appendix-I species in the protected list (First Schedule). Same amendment is being processed in Baluchistan Fisheries law.

2b. Please report on the progress / success of the actions taken.

> A positive change is expected in future.

2c. What assistance, if any, does your country require in order to overcome these obstacles?

> Financial and technical assistance to build capacity of relevant departments and fisher communities.

3. What are the major threats to Appendix I fish species (transcending mere obstacles to migration)?

Other

> By-catch.

3a. What actions have been taken to prevent, reduce or control factors that are endangering or are likely to further endanger fish species beyond actions to prevent disruption to migrating behaviour?

> Government of Sindh province has amended Sindh Fisheries Ordinance, 1980 and including many species including CMS Appendix-I species in the protected list (First Schedule). Same amendment is being processed in Baluchistan Fisheries law.

3b. Please report on the progress / success of the actions taken.

> A positive change is expected in future.

3c. Describe any factors that may limit action being taken in this regard:

> Nil

3d. What assistance, if any, does your country require to overcome these factors?

> Sharing of information and best practices among the range states.

5.2 Questions on specific Appendix I fish species

In the following section, using the table format below, please fill in each Appendix I fish species, for which your country is considered to be a Range State. Please complete each table as appropriate, providing information in summary form. Where appropriate, please cross-reference to information already provided in national reports that have been submitted under other conventions (e.g. Convention on Biological Diversity, Ramsar Convention, CITES). (Attach annexes as necessary.)

Species name: *Pristis pristis*

1. Please provide published distribution reference:

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

2a. Summarise information on population size (if known):

not known

2b. Summarise information on distribution (if known):

not known

3. Indicate and briefly describe any activities that have been carried out in favour of this species in the reporting period. (Please provide the title of the project and contact details, where available):

- Research
- Monitoring
- Education/awareness rising
- Species protection
- Control hunting / poaching
- Habitat protection

5. Describe any future activities that are planned for this species:

> To continue the existing activities.

Miscellaneous information or comments on Appendix I bats in general:

> Nil

6. LISTING OF OTHER ENDANGERED MIGRATORY SPECIES IN APPENDIX I

1. Is your country a Range State for any other endangered migratory species currently listed in Appendix I?

(according to the latest IUCN red data list). N.B.: States in which a species occurs as a vagrant (i.e. not "on its normal migration route") should not be treated as Range States. Please refer to Article 1 of the Convention for clarification.

No

1a. Is your country taking any steps to propose listing any of these species?

No

1b. What assistance/measures, if any, does your country require to initiate the listing of these species?

> N/A

III. Appendix II Species

1. INFORMATION ON APPENDIX II SPECIES

Information pertaining to the conservation of Appendix II species that are the object of CMS Agreements will have been provided in periodic Party reports to those instruments. It will suffice therefore to reference (below), and preferably append, a copy of the latest report that has been submitted to the Secretariat of each of the Agreement/MoUs to which your country is a Party.

Siberian Crane MoU (1993/1999)

Date of last report
> Updated in November 2013.

Period covered:
> Upto 2013

IOSEA Marine Turtles MoU (2001)

Date of last report:
> Updated in September 2014

Period covered:
> Upto 2014

Birds of Prey (Raptors) MoU (2008)

Date of last report:
> Updated in December 2012

Period covered:
> Upto 2012

2. QUESTIONS ON CMS AGREEMENTS

Questions on the development of new CMS Agreements relating to Bird Species

1. In the current reporting period, has your country **initiated** the development of any CMS Agreements, including Memoranda of Understanding, to address the needs of Appendix II Bird Species ?

No

2. In the current reporting period, has your country **participated** in the development of any new CMS Agreements, including Memoranda of Understanding, which address the conservation needs of Appendix II Bird Species ?

No

3. If your country has initiated or is participating in the development of a new Agreement or Memorandum of Understanding, what assistance, if any, does your country require in order to initiate or participate in the instrument's development?

> N/A

4. Is the development of any CMS Agreement for Bird Species, including Memoranda of Understanding, planned by your country in the foreseeable future?

No

Questions on the development of new CMS Agreements relating to Marine Mammal Species

1. In the current reporting period, has your country **initiated** the development of any CMS Agreements, including Memoranda of Understanding, to address the needs of Appendix II Marine Mammal Species ?

No

2. In the current reporting period, has your country **participated** in the development of any new CMS Agreements, including Memoranda of Understanding, which address the conservation needs of Appendix II Marine Mammal Species ?

No

If Yes, please provide details:

> Pakistan has participated in the negotiation on MOU for the conservation of Dugong

4. Is the development of any CMS Agreement for Marine Mammal Species, including Memoranda of Understanding, planned by your country in the foreseeable future?

No

Questions on the development of new CMS Agreements relating to Marine Turtle Species

1. In the current reporting period, has your country **initiated** the development of any CMS Agreements, including Memoranda of Understanding, to address the needs of Appendix II Marine Turtle Species ?

No

2. In the current reporting period, has your country **participated** in the development of any new CMS Agreements, including Memoranda of Understanding, which address the conservation needs of Appendix II Marine Turtle Species ?

No

3. If your country has initiated or is participating in the development of a new Agreement or Memorandum of Understanding, what assistance, if any, does your country require in order to initiate or participate in the instrument's development?

> N/A

4. Is the development of any CMS Agreement for Marine Turtle Species, including Memoranda of Understanding, planned by your country in the foreseeable future?

No

Questions on the development of new CMS Agreements relating to Terrestrial Mammal (other than bats) Species

1. In the current reporting period, has your country **initiated** the development of any CMS Agreements, including Memoranda of Understanding, to address the needs of Appendix II Terrestrial Mammal (other than bats) Species ?

No

2. In the current reporting period, has your country **participated** in the development of any new CMS Agreements, including Memoranda of Understanding, which address the conservation needs of Appendix II Terrestrial Mammal (other than bats) Species ?

No

3. If your country has initiated or is participating in the development of a new Agreement or Memorandum of Understanding, what assistance, if any, does your country require in order to initiate or participate in the instrument's development?

> Nil

4. Is the development of any CMS Agreement for Terrestrial Mammal (other than bats) Species, including Memoranda of Understanding, planned by your country in the foreseeable future?

No

Questions on the development of new CMS Agreements relating to Bat Species

1. In the current reporting period, has your country **initiated** the development of any CMS Agreements, including Memoranda of Understanding, to address the needs of Appendix II Bat Species ?

No

2. In the current reporting period, has your country **participated** in the development of any new CMS Agreements, including Memoranda of Understanding, which address the conservation needs of Appendix II Bat Species ?

No

3. If your country has initiated or is participating in the development of a new Agreement or Memorandum of Understanding, what assistance, if any, does your country require in order to initiate or participate in the instrument's development?

> N/A

4. Is the development of any CMS Agreement for Bat Species, including Memoranda of Understanding, planned by your country in the foreseeable future?

No

Questions on the development of new CMS Agreements relating to Fish

1. In the current reporting period, has your country **initiated** the development of any CMS Agreements, including Memoranda of Understanding, to address the needs of Appendix II Fish ?

No

2. In the current reporting period, has your country **participated** in the development of any new CMS Agreements, including Memoranda of Understanding, which address the conservation needs of Appendix II Fish ?

No

3. If your country has initiated or is participating in the development of a new Agreement or Memorandum of Understanding, what assistance, if any, does your country require in order to initiate or participate in the instrument's development?

> N/A

4. Is the development of any CMS Agreement for Fish, including Memoranda of Understanding, planned by your country in the foreseeable future?

No

3. LISTING OF MIGRATORY SPECIES IN APPENDIX II

1. Is your country a Range State for any migratory species that has an unfavourable conservation status, but is not currently listed in Appendix II and could benefit from the conclusion of an Agreement for its conservation?

N.B.: States in which a species occurs as a vagrant (i.e. not "on its normal migration route") should not be treated as Range States. Please refer to Article 1 of the Convention for clarification.

No

1a. Is your country taking any steps to propose the listing of this/these species in Appendix II?

No

1b. What assistance, if any, does your country require to initiate the listing of this/these species?

> Nil

IV. National and Regional Priorities

1. What priority does your country assign to the conservation and, where applicable, sustainable use of migratory species in comparison to other biodiversity-related issues

Medium

2. Are migratory species and their habitats addressed by your country's national biodiversity strategy or action plan?

Yes

2.1. If Yes, please indicate and briefly describe the extent to which it addresses the following issues:

Conservation, sustainable use and/or restoration of migratory species

> Conservation and sustainable use of biodiversity is main theme of National Biodiversity Strategy and Action Plan.

Conservation, sustainable use and/or restoration of the habitats of migratory species, including protected areas

Actions to prevent, reduce or control factors that are endangering or are likely to further endanger migratory species (e.g. alien invasive species or by-catch)

Research and monitoring of migratory species

Transboundary co-operation

3. Does the conservation of migratory species currently feature in any other national or regional policies/plans (apart from CMS Agreements)

Yes

3.1. If Yes, please provide details:

> National Conservation Strategy (NCS), Biodiversity Action Plan (BAP) are being revised as National Biodiversity Strategy and Action Plan (NBSAP), Climate Change Policy and Regional Conservation Strategies.

3a. Do these policies/plans cover the following areas?

Exploitation of natural resources (e.g. fisheries, hunting, etc.)

Yes

Economic development

Yes

Land-use planning

Yes

If Yes, please provide details

> For all mega developmental projects, Environmental Impact Assessment has been made obligatory.

Pollution control

Yes

Designation and development of protected areas

Yes

If Yes, please provide details

> For conservation of migratory and resident species a system of protected areas has been established in Pakistan comprising more than 12% of the total area. Protected areas include following categories:

o National Parks: 26

o Wildlife Sanctuaries: 92

o Game Reserves: 89

o Community Conservation Areas: 115

o Crane Reserve: 1

o Crane Refuge: 1

o Waterfowl Refuge: 1

o Pakistan has also designated 19 Ramsar Sites, with total surface area of 1,343,627 ha.

Development of ecological networks

Yes

Planning of power lines

Yes

If Yes, please provide details

> CMS guidelines to avoid birds electrocution, are recommended in all power lines projects.

Planning of fences

No

Planning of dams

Yes

If Yes, please provide details

> For all mega developmental projects, Environmental Impact Assessment has been made obligatory.

4. Results - please describe the positive outcomes of any actions taken

> A positive change is expected in future

V. Protected Areas

1. Are migratory species taken into account in the selection, establishment and management of protected areas in your country?

Yes

If Yes, please provide details:

> For conservation of migratory and resident species a system of protected areas has been established in Pakistan comprising more than 12% of the total area. Protected areas include following categories:

o National Parks: 26

o Wildlife Sanctuaries: 92

o Game Reserves: 89

o Community Conservation Areas: 115

o Crane Reserve: 1

o Crane Refuge: 1

o Waterfowl Refuge: 1

o Pakistan has also designated 19 Ramsar Sites, with total surface area of 1,343,627 ha

1a. Please identify the most important national sites for migratory species and their protection status:

> Chitral Gol National Park, Northern Alpine Wetlands Complex, Salt Range Wetlands Complex, Central Indus Wetlands Complex, Hingol National Park, Hub Dam, Haleji lake, Lungl lake wildlife sanctuaries, etc.

1b. Do these protected areas cover the following areas?

Terrestrial

Yes

Aquatic

Yes

Marine

Yes

1c. Identify the agency, department or organization responsible for leading on this action in your country:

> Protected areas are established and managed by provincial/territorial wildlife authorities under their wildlife legislation. At Federal level Forestry Wing, Ministry of Climate Change coordinates and collaborates with the provincial/territorial authorities on biodiversity related issues.

2. Results - please describe the positive outcomes of any actions taken

> A positive change is expected in future

VI. Policies on Satellite Telemetry

1. In the current reporting period, has your country undertaken conservation/research projects that use satellite telemetry?

Yes

If yes what is the state of those projects

on-going

Please provide details

> In northern areas of Pakistan, Snow Leopard Foundation in collaboration with the provincial/territorial wildlife authorities has been working on Snow Leopard using camera traps and satellite telemetry. The research activities have been undertaken on various aspects that include; population status and distribution, habitat mapping, ecology, food habits, ranging movements, as well as to properly document human-leopard conflicts in its range.

2. Are any future conservation/research projects planned that will use satellite telemetry?

Yes

If Yes, please provide details (including the expected timeframe for these projects):

> To continue such activities.

If No, please explain any impediments or requirements in this regard:

> N/A

3. Results - please describe the positive outcomes of any actions taken

> A positive change is expected in future

VII. Membership

1. Have actions been taken by your country to encourage non- Parties to join CMS and its related Agreements?

No

If Yes, please provide details. (In particular, describe actions taken to recruit the non-Parties that have been identified by the Standing Committee as high priorities for recruitment.)

> N/A

1a. Identify the agency, department or organization responsible for leading on this action in your country:

> N/A

2. Results - please describe the positive outcomes of any actions taken

> N/A

VIII. Global and National Importance of CMS

1. Have actions been taken by your country to increase national, regional and/or global awareness of the relevance of CMS and its global importance in the context of biodiversity conservation?

Yes

If Yes, please provide details:

> Awareness raising about conservation of endangered species in general has been regular component of different initiatives of government and non-government organizations; Ministry Climate Change , provincial/territorial wildlife departments, Snow Leopard Foundation Pakistan, WWF Pakistan, IUCN. International days like World Wildlife Day, World Wetlands Day and World Migratory birds day etc are celebrated nationally.

2. Identify the agency, department or organization responsible for leading on this action in your country:

> Forestry Wing Climate Change Division, provincial/territorial wildlife departments, NGOs

3. Results - please describe the positive outcomes of any actions taken

> A positive change is expected in future

IX. Mobilization of Resources

1. Has your country made financial resources available for conservation activities having direct benefits for migratory species in your country?

Yes

If Yes, please provide details (Indicate the migratory species that have benefited from these activities):

> Snow Leopard, Marine Turtles, Birds of Prey

2. Has your country made voluntary contributions to the CMS Trust Fund to support requests from developing countries and countries with economies in transition?

No

3. Has your country made other voluntary financial contributions to support conservation activities having direct benefits for migratory species in other countries (particularly developing countries)?

No

4. Has your country provided technical and/or scientific assistance to developing countries to facilitate initiatives for the benefit of migratory species?

No

5. Has your country received financial assistance/support from the CMS Trust Fund, via the CMS Secretariat, for national conservation activities having direct benefits for migratory species in your country?

No

6. Has your country received financial assistance/support from sources other than the CMS Secretariat for conservation activities having direct benefit for migratory species in your country?

No

If Yes, please provide details (Indicate the migratory species that have benefited from these activities):

> N/A

X. Implementation of COP Resolutions and Recommendations

Please provide information about measures undertaken by your country relating to recent Resolutions and Recommendations since the last Report. For your convenience please refer to the list of COP Resolutions and Recommendations listed below:

Strategic and Institutional Matters

Capacity Building Strategy (Res. 9.12 / Res. 10.6)

› Capacity building material developed by CMS Secretariat is used for capacity building of staff. CMS websites are also a valuable source of information on different issues. In relevant capacity building event of provincial territorial wildlife departments and other agencies, presentations on CMS and its MoUs are given for awareness raising and capacity building.

Strategic Plan for Migratory Species 2015-2023 (Res. 11.2)

› Conservation of migratory species is being considered in conservation projects being implemented by public or private sector. In all under process policy documents like NBSAP, migratory species have been considered as priority species.

World Migratory Bird Day (Res. 11.9)

› To raise awareness, World Migratory Bird Day is celebrated every year in collaboration with Ministry of Climate Change, provincial/territorial wildlife departments, Pakistan Museum of Natural History, NGOs and academia.

Synergies and Partnerships / Cooperation with other Conventions (Res. 11.10)

› Biodiversity related conventions; CMS, CBD, CITES, Ramsar Conventions are dealt by Forestry Wing of Ministry of Climate Change, therefore synergy is maintained on cross-cutting issues.

Avian Species and Issues

Electrocution of Migratory Birds (Res. 7.04 / Res. 10.11)

› CMS Guidelines to avoid bird electrocution are recommended for all new power transmission lines projects

Southern Hemisphere Albatross Conservation (Res. 6.3)

› N/A

Saker Falcon (Res. 11.18)

› Pakistan has been actively involved in TAG. Provision of Saker Falcon Action Plan

Illegal Killing, Taking and Trade of Migratory Birds (Res. 11.16)

› To control wildlife crime following activities were undertaken:

- A series of capacity building workshops was arranged in collaboration with WWF-Pakistan at Islamabad, Lahore and Karachi in which wildlife law enforcement agencies were trained to control illegal wildlife trafficking.
- A draft National Plan of Action (NPOA) to control illegal wildlife trade has been developed in collaboration with WWF-Pakistan, provincial/territorial wildlife departments and Pakistan customs. On 24th August, 2016 a national consultative workshop was held to get recommendations of stakeholders on draft NPOA. The workshop was jointly organized by WWF-Pakistan and Ministry of Climate Change. The draft NPOA will be finalized soon and will serve as a policy document to control illegal wildlife trade in Pakistan.
- Effective enforcement of wildlife related legislation was carried out by provincial wildlife departments and Pakistan customs. Line departments seized a number of consignments of endangered species being traded illegally. These consignments, where possible were rehabilitated back to wild and the violators proceeded under the relevant laws.

Aquatic Species and Issues

Conservation of Migratory Sharks and Rays (Res. 11.20)

› Sindh province has declared various marine species including migratory sharks and rays as protected. Similar amendment is under process in Balochistan.

Live capture of Cetacean from the Wild (Res. 11.22)

› Cetaceans are protected under law, their killing or live capturing is prohibited.

Antarctic Minke, Bryde's and Pygmy Right Whales (Res. 7.15)

› N/A

Terrestrial Species and Issues

Conservation of the African Lion (Res. 11.32)

> N/A

Annex: Updating Data on Appendix II Species

1. The drop-down lists below contain the list of all species listed in Appendix II. Parties which did not submit a National Report in 2014 are requested to complete the entire form. Parties that did submit a report in 2014 are requested to review and update the data (e.g. new published distribution references and details concerning species added to Appendix II at COP11).

Cetacea

Inia geoffrensis

Please choose the one that applies.

Not a Range State

Pontoporia blainvillei

Please choose the one that applies.

Not a Range State

Berardius bairdii

Please choose the one that applies.

Not a Range State

Hyperoodon ampullatus

Please choose the one that applies.

Not a Range State

Delphinapterus leucas

Please choose the one that applies.

Not a Range State

Monodon monoceros

Please choose the one that applies.

Not a Range State

Delphinus delphis (North and Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Globicephala melas (North and Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Lagenodelphis hosei (south-east Asian populations)

Please choose the one that applies.

Not a Range State

Lagenorhynchus acutus (North and Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Lagenorhynchus albirostris (North and Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Lagenorhynchus australis

Please choose the one that applies.

Not a Range State

Lagenorhynchus obscurus

Please choose the one that applies.

Not a Range State

Orcaella brevirostris

Please choose the one that applies.

Not a Range State

Sotalia fluviatilis

Please choose the one that applies.

Not a Range State

Sotalia guianensis

Please choose the one that applies.

Not a Range State

Sousa chinensis

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Sousa teuszii

Please choose the one that applies.

Not a Range State

Stenella attenuata (eastern tropical Pacific population)

Please choose the one that applies.

Not a Range State

Stenella clymene (West African population)

Please choose the one that applies.

Not a Range State

Stenella coeruleoalba (eastern tropical Pacific population)

Please choose the one that applies.

Not a Range State

Tursiops aduncus (Arafurur/Timor Sea)

Please choose the one that applies.

Not a Range State

Tursiops truncatus (Mediterranean population)

Please choose the one that applies.

Not a Range State

Neophocaena phocaenoides

Please choose the one that applies.

Not a Range State

Phocoena dioptrica

Please choose the one that applies.

Not a Range State

Phocoena phocoena (NW African population)

Please choose the one that applies.

Not a Range State

Phocoena spinipinnis

Please choose the one that applies.

Not a Range State

Phocoenoides dalli

Please choose the one that applies.

Not a Range State

Balaenoptera bonaerensis

Please choose the one that applies.

Not a Range State

Balaenoptera borealis

Please choose the one that applies.

Not a Range State

Balaenoptera edeni

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Balaenoptera omurai

Please choose the one that applies.

Not a Range State

Balaenoptera physalus

Please choose the one that applies.

Not a Range State

Caperea marginata

Please choose the one that applies.

Not a Range State

Physeter macrocephalus

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Platanista gangetica gangetica

Please choose the one that applies.

Not a Range State

Phocoena phocoena (North and Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Phocoena phocoena (western North Atlantic population)

Please choose the one that applies.

Not a Range State

Phocoena phocoena (Black Sea population)

Please choose the one that applies.

Not a Range State

Neophocaena asiaeorientalis

Please choose the one that applies.

Not a Range State

Grampus griseus (Mediterranean population)

Please choose the one that applies.

Not a Range State

Tursiops truncatus (North and Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Tursiops truncatus (Black Sea population)

Please choose the one that applies.

Not a Range State

Stenella attenuata (south-east Asian populations)

Please choose the one that applies.

Not a Range State

Stenella coeruleoalba (Mediterranean population)

Please choose the one that applies.

Not a Range State

Carnivora

Lycaon pictus

Please choose the one that applies.

Not a Range State

Arctocephalus australis

Please choose the one that applies.

Not a Range State

Halichoerus grypus (Baltic Sea populations)

Please choose the one that applies.

Not a Range State

Monachus monachus

Please choose the one that applies.

Not a Range State

Phoca vitulina (Baltic and Wadden Sea populations)

Please choose the one that applies.

Not a Range State

Otaria flavescens

Please choose the one that applies.

Not a Range State

Ursus maritimus

Please choose the one that applies.

Not a Range State

Proboscidea

Loxodonta africana

Please choose the one that applies.

Not a Range State

Sirenia

Dugong dugon

Please choose the one that applies.

Not a Range State

Trichechus inunguis

Please choose the one that applies.

Not a Range State

Trichechus manatus (Panama and Honduras)

Please choose the one that applies.

Not a Range State

Trichechus senegalensis

Please choose the one that applies.

Not a Range State

Perissodactyla

Equus hemionus (includes E. onager)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Equus kiang

Please choose the one that applies.

No information available

Artiodactyla

Vicugna vicugna

Please choose the one that applies.

Not a Range State

Cervus elaphus yarkandensis (Populations of Kazakhstan, Kyrgyzstan, Turkmenistan, Tajikistan, Uzbekistan and Afghanistan)

Please choose the one that applies.

Not a Range State

Gazella subgutturosa

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Oryx dammah

Please choose the one that applies.

Not a Range State

Procapra gutturosa

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Saiga tatarica

Please choose the one that applies.

Not a Range State

Ovis ammon

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Gazella gazella (Asian populations)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Sphenisciformes

Spheniscus demersus

Please choose the one that applies.

Not a Range State

Gaviiformes

Gavia adamsii (W. Palaearctic)

Please choose the one that applies.

Not a Range State

Podicipediformes

Podiceps auritus (W. Palaearctic)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Podiceps grisegena grisegena

Please choose the one that applies.

No information available

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Pelecaniformes

Pelecanus crispus

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Pelecanus onocrotalus (W. Palearctic)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Ciconiiformes

Ardeola idae

Please choose the one that applies.

Not a Range State

Ardeola rufiventris

Please choose the one that applies.

Not a Range State

Botaurus stellaris stellaris (W. Palearctic)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Casmerodius albus albus (W. Palearctic)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Egretta vinaceigula

Please choose the one that applies.

Not a Range State

Ixobrychus minutus minutus (W. Palearctic)

Please choose the one that applies.

Range State

Published distribution reference

> Ixobrychus minutus

Ixobrychus sturmii

Please choose the one that applies.

Not a Range State

Ciconia ciconia

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Ciconia episcopus microscelis

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Ciconia nigra

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Mycteria ibis

Please choose the one that applies.

Not a Range State

Geronticus eremita

Please choose the one that applies.

Not a Range State

Platalea alba (excluding Malagasy population)

Please choose the one that applies.

Not a Range State

Plegadis falcinellus

Please choose the one that applies.

Range State

Published distribution reference

> Plegadis falcinellus

Threskiornis aethiopicus aethiopicus

Please choose the one that applies.

No information available

Anseriformes

Anatidae spp

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Falconiformes

Pandion haliaetus

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Accipitridae spp

Please choose the one that applies.

Range State

Published distribution reference

› Cathartidae. spp

Falconidae spp

Please choose the one that applies.

Range State

Published distribution reference

› Cathartidae. spp

Galliformes

Coturnix coturnix coturnix

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Gruiformes

Crex crex

Please choose the one that applies.

No information available

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Porzana parva parva

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Porzana pusilla intermedia

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Chlamydotis undulata (Asian populations)

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Otis tarda

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Grus spp

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Charadriiformes

Dromas ardeola

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Burhinus oedicnemus

Please choose the one that applies.

Range State

Published distribution reference

› Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Glareola nordmanni

Please choose the one that applies.

Not a Range State

Glareola nuchalis

Please choose the one that applies.

Not a Range State

Glareola pratincola

Please choose the one that applies.

Range State

Published distribution reference

› Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Chlidonias leucopterus (West Eurasian and African populations)

Please choose the one that applies.

No information available

Chlidonias niger niger

Please choose the one that applies.

Not a Range State

Larus armenicus

Please choose the one that applies.

Not a Range State

Larus audouinii

Please choose the one that applies.

Not a Range State

Larus genei

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Larus hemprichii

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Larus ichthyaetus (West Eurasian and African population)

Please choose the one that applies.

No information available

Larus leucophthalmus

Please choose the one that applies.

Not a Range State

Larus melanocephalus

Please choose the one that applies.

Not a Range State

Sterna albifrons

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Sterna balaenarum

Please choose the one that applies.

Not a Range State

Sterna bengalensis (African and Southwest Asian populations)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Sterna bergii (African and Southwest Asian populations)

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Sterna dougallii (Atlantic population)

Please choose the one that applies.

Not a Range State

Sterna hirundo hirundo (Populations breeding in the W Palaearctic)

Please choose the one that applies.

No information available

Sterna nilotica nilotica (West Eurasian and African populations)

Please choose the one that applies.

No information available

Sterna paradisaea (Atlantic population)

Please choose the one that applies.

Not a Range State

Sterna repressa

Please choose the one that applies.

Not a Range State

Sterna sandvicensis sandvicensis

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Sterna saundersi

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Recurvirostridae spp

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Charadriidae spp

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Scolopacidae spp

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T., Inskipp, T., (2009). birds of Pakistan, Yale University press

Sterna maxima albidorsalis

Please choose the one that applies.

Not a Range State

Columbiformes

Streptopelia turtur turtur

Please choose the one that applies.

No information available

Psittaciformes

Amazona tucumana

Please choose the one that applies.

Not a Range State

Coraciiformes

Merops apiaster

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Passeriformes

Alectrurus risora

Please choose the one that applies.

Not a Range State

Alectrurus tricolor

Please choose the one that applies.

Not a Range State

Polystictus pectoralis pectoralis

Please choose the one that applies.

Not a Range State

Pseudocolopteryx dinellianus

Please choose the one that applies.

Not a Range State

Hirundo atrocaerulea

Please choose the one that applies.

Not a Range State

Sporophila cinnamomea

Please choose the one that applies.

Not a Range State

Sporophila hypochroma

Please choose the one that applies.

Not a Range State

Sporophila palustris

Please choose the one that applies.

Not a Range State

Sporophila ruficollis

Please choose the one that applies.

Not a Range State

Sporophila zelichi

Please choose the one that applies.

Not a Range State

Agelaius flavus

Please choose the one that applies.

Not a Range State

Dolichonyx oryzivorus

Please choose the one that applies.

Not a Range State

Muscicapidae (s.l.) spp.

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London
Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Cardellina canadensis

Please choose the one that applies.

Not a Range State

Testudinata

Podocnemis expansa

Please choose the one that applies.

Not a Range State

Crocodylia

Crocodylus porosus

Please choose the one that applies.

Not a Range State

Orectolobiformes

Rhincodon typus

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Lamniformes

Carcharodon carcharias

Please choose the one that applies.

Not a Range State

Isurus oxyrinchus

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Isurus paucus

Please choose the one that applies.

Not a Range State

Lamna nasus

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Cetorhinus maximus

Please choose the one that applies.

No information available

Alopias superciliosus

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Alopias vulpinus

Please choose the one that applies.

No information available

Alopias pelagicus

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Acipenseriformes

Acipenser baerii baicalensis

Please choose the one that applies.

Not a Range State

Acipenser fulvescens

Please choose the one that applies.

Not a Range State

Acipenser medirostris

Please choose the one that applies.

Not a Range State

Acipenser mikadoi

Please choose the one that applies.

Not a Range State

Acipenser naccarii

Please choose the one that applies.

Not a Range State

Acipenser nudiventris

Please choose the one that applies.

Not a Range State

Acipenser persicus

Please choose the one that applies.

Not a Range State

Acipenser ruthenus (Danube population)

Please choose the one that applies.

Not a Range State

Acipenser schrenckii

Please choose the one that applies.

Not a Range State

Acipenser sinensis

Please choose the one that applies.

Not a Range State

Acipenser stellatus

Please choose the one that applies.

Not a Range State

Acipenser sturio

Please choose the one that applies.

Not a Range State

Huso dauricus

Please choose the one that applies.

Not a Range State

Huso huso

Please choose the one that applies.

Not a Range State

Pseudoscaphirhynchus fedtschenkoi

Please choose the one that applies.

Not a Range State

Pseudoscaphirhynchus hermanni

Please choose the one that applies.

Not a Range State

Pseudoscaphirhynchus kaufmanni

Please choose the one that applies.

Not a Range State

Psephurus gladius

Please choose the one that applies.

Not a Range State

Squaliformes

Squalus acanthias (Northern hemisphere populations)

Please choose the one that applies.

Not a Range State

Phoenicopteriformes

Phoenicopteridae spp

Please choose the one that applies.

Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Rajiformes

Manta birostris

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Carcharhiniformes

Carcharhinus falciformis

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Sphyrna mokarran

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Sphyrna lewini

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Pristiformes

Anoxypristis cuspidata

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Pristis clavata

Please choose the one that applies.

Not a Range State

Pristis pectinata

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Pristis zijsron

Please choose the one that applies.

Not a Range State

Pristis pristis

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Myliobatiformes

Mobula mobular

Please choose the one that applies.

No information available

Mobula japanica

Please choose the one that applies.

Range State

Published distribution reference

> Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.

Mobula thurstoni

Please choose the one that applies.

Not a Range State

Mobula tarapacana

Please choose the one that applies.

Not a Range State

Mobula eregoodootenkee

Please choose the one that applies.

Not a Range State

Mobula kuhlii

Please choose the one that applies.

Not a Range State

Mobula hypostoma

Please choose the one that applies.

Not a Range State

Mobula rochebrunei

Please choose the one that applies.

Not a Range State

Mobula munkiana

Please choose the one that applies.

Not a Range State

Anguilliformes

Anguilla anguilla

Please choose the one that applies.

Not a Range State

Published distribution reference

> Roberts, T. J. (1991) The birds of Pakistan, Oxford University Press, London

Grimmett, R., Roberts, T. and Inskipp, T. 2008. Birds of Pakistan. Christopher Helm, London.

Roberts.T.J. (1997). The mammals of Pakistan. Oxford University Press, Karachi.

Khan, Muhammad Sharif. Amphibians and reptiles of Pakistan. Malabar, Florida, USA: Krieger Publishing Company, 2006.

Bianchi, G., (1985), FAO species identification sheets for fishery purposes. Field guide to the commercial marine and brackish-water species of Pakistan. Prepared with the support of PAK/77/033 and FAO (FIRM) Regular Programme. Rome, FAO, 200 p.