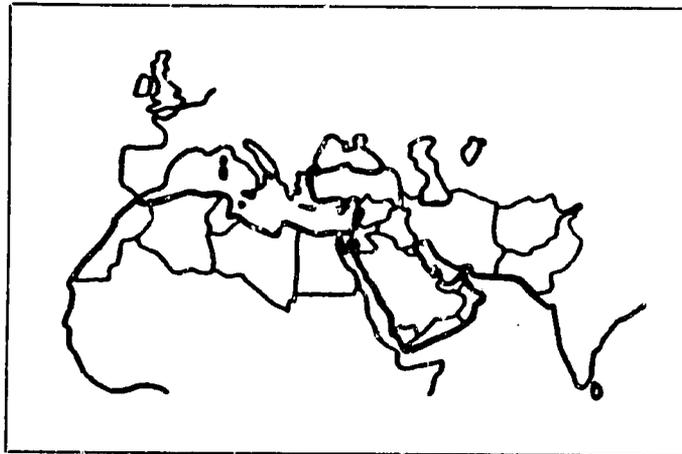


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# **BIOLOGICAL DIVERSITY IN NORTH AFRICA, THE MIDDLE EAST AND SOUTHWEST ASIA**

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**A Directory  
of  
Organizations and Institutions**



by  
Katherine Montague and Bertel Bruun

with Line Drawings by  
Peter Bruun

HLCF  
969 Park Avenue  
New York, New York 10028  
USA  
1987

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IN  
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USA  
1987

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"... when the last individual of a race of living things  
breathes no more, another heaven and another earth must  
pass before such a one can be again."

-- William Beebe

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## Preface

In its report to the U.S. Congress in 1985 the Interagency Task Force for a U.S. Strategy on the Conservation of Biological Diversity made a number of recommendations dealing with the need to share information and better coordinate developmental assistance activities. At a subsequent meeting on U.S. Assistance for Conservation of Biological Diversity in North Africa, the Middle East and Southwest Asia convened in Washington, DC in January, 1986, the need for cooperation and communication was again recognized as a major issue. To try to immediately meet some of these needs it was recommended that a directory of organizations and institutions in the Near East and Southwest Asia which were involved in working to conserve the biodiversity of the area be compiled. Through this relatively straightforward step, it was felt that communication in the region would be greatly facilitated and an important resource provided that currently is lacking. Under the auspices of the Holy Land Conservation Fund and with financial assistance from the U.S. Fish & Wildlife Service Office of International Affairs and the U.S. Agency for International Development, Bureau of Near East and Asia, the authors have undertaken to compile such a directory. More than 500 institutions and organizations were identified and at least three attempts were made to contact them. While responses were unevenly distributed, it was decided to publish the directory at this time with the expectation that future editions would be more complete.

### Acknowledgements:

We want to express our gratitude to Lawrence Mason, David Ferguson, and Edward McCrea of the U.S. Fish & Wildlife Service Office of International Affairs and Stephen Lintner of the U.S. Agency for International Development, Bureau of Near East and Asia for their support and encouragement throughout the project.

We are also indebted to all those people listed in this directory who recognized its importance for international cooperation and took the time to answer our questionnaire.

## Introduction

The rapidly growing population and the technological expansion of human populations in this century are placing unparalleled stress on the environment. Destruction of habitat and pollution, as well as unregulated harvests of wild resources have led to an increasing extinction of animal and plant species throughout the world.

The variety of species in the world is declining at an unprecedented rate impoverishing the planet's biodiversity -- the number and variety of plant and animal species in an ecosystem. This variety is our most fundamental natural resource -- the pool from which future raw materials for foods, fibers, fuel, chemicals, medicines will be drawn. Extinction therefore, deprives us of resources, both known and unknown.

To try to slow this loss, many organizations have been formed to modify development, limit the dangers of pollution, gain understanding of basic and specific problems associated with biodiversity and protect individual species and ecosystems. These organizations vary greatly in scope, breadth and influence, but in most countries non-governmental organizations act as watchdogs and together with academic institutions, furnish both new knowledge and education.

As our understanding of our environment has increased it has become clear that many problems cannot be solved on a national basis alone, but require a regional, or even worldwide approach. To facilitate this, international cooperation between two or more nations has been formalized and international conventions and agreements reached.

Nature recognizes no political boundaries and efforts to resolve environmental problems will be far more effective if there is an increase in the exchange of information and the dissemination of research findings. Where an agency in one country has resolved a problem, it should be possible for other nations to avoid wasting limited resources to arrive at the same solution. Successful programs should be copied.

This directory is intended to help in facilitating this kind of cooperation within the area of North Africa, the Middle East and Southwest Asia.

It lists each country in the region, giving basic information about each country's location, size and population, the international conventions to which the country is a signatory and the national parks and major nature reserves of the country. This is followed by a list of governmental organizations, non-governmental organizations and academic institutions involved in

protecting biodiversity, which have been identified and which have responded to a request for more detailed information. An addendum of organizations and institutions which have been identified from at least two independent sources but which have not at this date (May 1987) responded to our request for further information appears at the end of each entry.

This directory does not include international organizations which have projects relating to the region covered by the directory, but which are located outside the region.

It is the hope of the authors and sponsors that this directory will help both intra- and international cooperation on environmental matters in the region. It is also hoped that new and non-responding organizations and institutions will contact the authors to make future editions of this Directory more complete. For this purpose several copies of the questionnaire are inserted at the rear of the directory. Organizations, agencies and institutions not included in this volume are strongly encouraged to return a completed questionnaire to the authors for use in future editions:

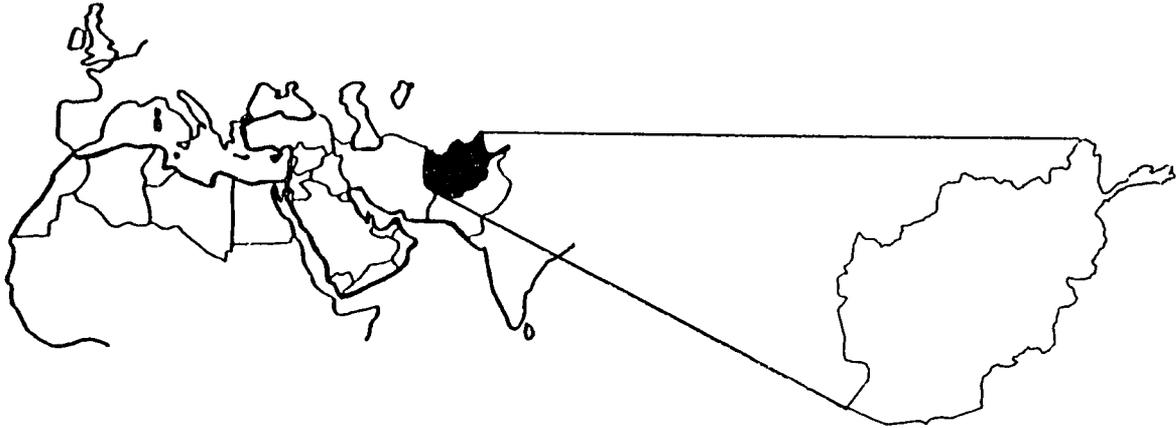
Bruun/Montague  
969 Park Avenue  
New York, New York 10028  
USA

Bertel Bruun  
May, 1987

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# AFGHANISTAN



Population: 15,056,000  
Area: 652,262 km<sup>2</sup> (251,773 sq.mi.)  
Language: Pushtu, Persian  
Convention signator: CITES  
World Heritage

## AGENCIES AND ORGANIZATIONS\*

Afghanistan Academy of Sciences  
Kabul, Afghanistan

Kabul Zoological Gardens  
Barikot Park  
Kabul, Afghanistan

(continued)

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

Ministry of Agriculture & Land Reform  
Kabul, Afghanistan  
(includes:  
- Forestry & Range Department  
- Water and Soil Survey Department)

Ministry of Public Health  
Kabul, Afghanistan

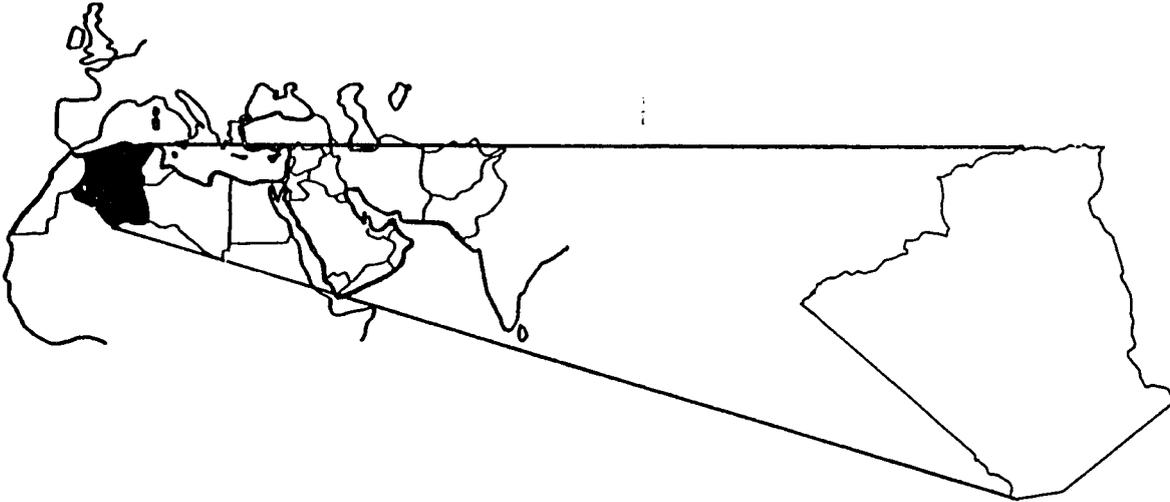
University of Kabul  
Faculty of Agriculture  
Animal Science Division  
Kabul, Afghanistan

University of Kabul  
Faculty of Agriculture  
Department of Forestry & Natural  
Resources  
Kabul, Afghanistan

University of Kabul  
Faculty of Science  
Zoology Department  
Kabul, Afghanistan

University of Kabul  
Research Centre  
Kabul, Afghanistan

# ALGERIA



Population: 22,107,000  
Area: 2,379,526 km<sup>2</sup> (918,497 sq.mi.)  
Languages: Arabic (French)  
Convention signator: Ramsar  
World Heritage

National Parks: Jarjara National Park  
Sari'a National Park

Nature Reserves: Bashkouf Reserve  
Massila Reserve

## Governmental Organizations

**PARC ZOOLOGIQUE ET DES LOISIRS D'ALGER**  
[Algiers Zoo and Amusement Park]  
Route de Kaddous Hydra  
Algiers, Algeria

Director: Dr. Boumaza  
Established: 1982, funded by the Ministry of Water Resources,  
Environment and Forestry

Main interests: Birds, mammals and plants in forests and wetlands.

Activities:

Education: Approximately 2 million visitors to the zoo annually, most of them under the age of 15.

Preservation of individual species: There are over 100 different species of animals in the zoo which has an area of 90 hectares. The total complex is approximately 304 hectares in area and also includes a Botanical Garden.

## Universities/Research Institutions

**CENTRE D'ÉTUDE DE RECHERCHE  
APPLIQUÉE ET DE DOCUMENTATION  
POUR LA PÊCHE ET L'AQUACULTURE  
(CERP)**

[Center for Applied Research,  
Fishing and Aquaculture]  
11, Boulevard Colonel Amirouche  
Bou Ismail W-de-Tipaza, Algeria

Director: Mr. G. Kadari

Established: 1980

Geographic area of responsibility: entire country

Main interests: Marine life; aquarium. Concerned with the impact of water pollution and industrial development on fisheries.

Activities:

Research: Conducts research relating to fisheries and food technology. Concerned with the preservation of individual species.

**UNITÉ DE RECHERCHE SUR LES RESSOURCES  
BIOLOGIQUES TERRESTRES (URBT)  
[Research Branch, Terrestrial Biological Resources]  
2, rue M. Didouche  
B.P. 812 Alger-Gare  
Algiers, Algeria**

Director: Prof. S. Djebaili

Established: 1974

Geographic area of responsibility: entire country

Main interests: Plants in forests and deserts. Concerned with the impact of desertification; range and forest management.

Activities:

Research: Conducts research on ecosystems of forests, steppes and deserts (Sahara).

**UNITÉ DE RECHERCHES SUR LES ZONES ARIDES**  
**[Desert Research Center]**

B.P. 119

Alger-Gare, Algeria

Director: Nicole Bounaga

Established: 1974 (as CNRZA)

Geographic area of responsibility: Arid and semi-arid regions

Main interests: Mammals and plants in the desert; botanical garden, national parks, wildlife preserves, zoos. Concerned about agriculture.

Activities:

Research: Genetic resources of Saharan plants and animals, especially the date palm, sheep and camels.

Preservation of individual species: Genetic resources of the date palm.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Centre de Recherche Océanographique  
des Pêches  
[Center for Oceanographic Research]  
B.P. 90  
Alger-Bourse, Algeria

Centre de Recherches Sahariennes  
[Center for Saharan Research]  
Beni-Abbes, Saoura  
Algiers, Algeria

Comité National M.A.B.  
[National Committee for M.A.B.]  
B.P. 812  
Alger-Gare, Algeria

Institut des Sciences de la  
Mer et de l'Aménagement  
du Littoral (ISMAL)  
[Institute for Oceanography  
and Coastal Management]  
B.P. 90  
Alger-Bourse, Algeria

Institut National Agronomique  
Département Botanique  
El Harrach  
Alger, Algeria

National Agronomy Institute  
Botany Department

Institut National Agronomique  
Département de Zoologie  
El Harrach  
Alger, Algeria

National Agronomy Institute  
Zoology Department

Ministère de l'Agriculture et de  
la Réforme Agraire  
[Ministry of Agriculture and  
Land Reform]  
12, boulevard Colonel Amiroche  
Algiers, Algeria

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

Ministère de l'Hydraulique, de  
l'Environnement et des Forêts  
[Ministry of Water Resources, Environment  
and Forestry]  
Ex-Grand Séminaire  
Kouba, Algeria

Oceanography Institute  
2, rue Didouche, Mourad  
University of Algiers  
Algiers, Algeria

Parc Botanique et Zoologique  
[Zoological and Botanical Garden]  
Beni-Abbes  
Saoura, Algeria

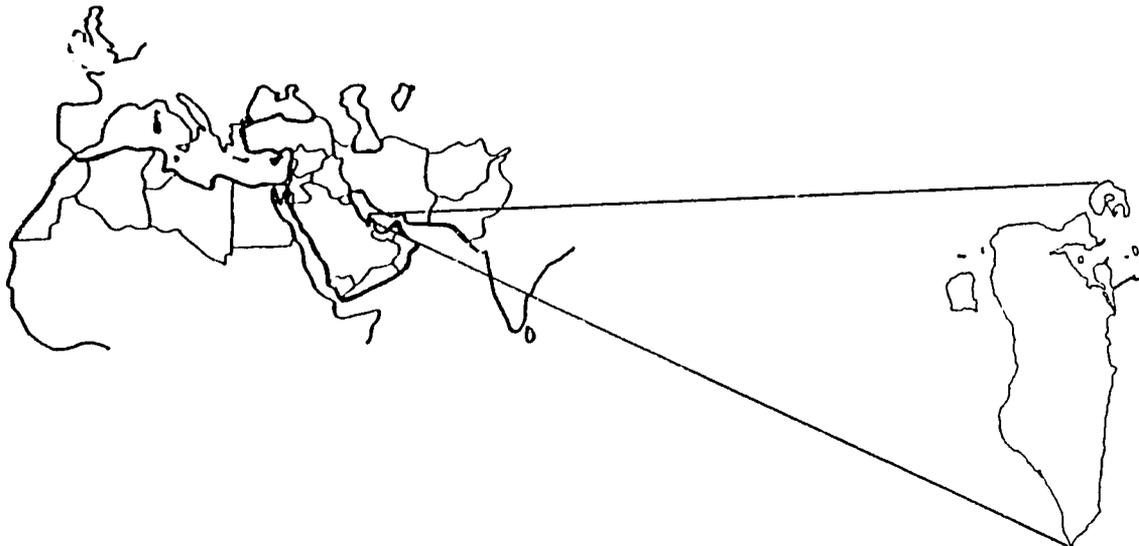
Parc Zoologique  
[Zoological Garden]  
Le Hamma  
Alger, Algeria

University of Algiers  
Faculty of Science  
Zoology Department  
Algier, Algeria

University of Oran  
Faculty of Science  
B.P. 1524  
Es-Senia, Oran, Algeria

University of Setif  
Biology Institute  
Setif, Algeria

# BAHRAIN



Population: 431,000  
Area: 668 km<sup>2</sup> (258 sq.mi.)  
Language: Arabic

National Parks: Al-Areen Park

Nature Reserves: Al-Areen Reserve

## Governmental Organizations

### **AL-AREEN WILDLIFE PARK**

Box 5792  
Bahrain

Established: 1976

Geographic area of responsibility: 800 km<sup>2</sup> in SW coastal area

Main interests: Birds, mammals and plants in deserts; wildlife preserves. Concerned with the impact of air pollution, as well as environmental threats posed by industrial and urban development; agriculture.

#### Activities:

Education: Provides education to children of all ages, as well as to the general public.

Establishment of protected areas: Reserve area in south, primarily rain-fed area of natural regeneration.

Preservation of individual species: Works to preserve Arabian mammals indigenous to the area (Arabian Oryx, Arabian Gazelles), as well as various endangered/rare African species (Addax, Scimitar-horned Oryx, Dama Gazelle, Roan and Sable Antelope).

**ENVIRONMENTAL PROTECTION COMMITTEE**

PO Box 26909  
Adliya, Bahrain

Vice Chairman: Khalid Fakhro

Established: 1980

Geographic area of responsibility: entire country

Main interests: Mammals and marine life in coastal and marine areas, wetlands, and deserts. Concerned with the impact of air, water and noise pollution, chemical (toxic/hazardous) waste, and solid waste, as well as environmental threats posed by industrial, oil and gas development.

Activities:

Education: Provides public education through the use of posters, calendars, pamphlets, and TV commercials.

Research: Plankton, critical marine habitats, pollution studies, oceanographic studies, air pollution monitoring, and Dugong population.

Establishment of protected areas: Mangrove swamps; working on coral reefs.

Preservation of individual species: Dugong, Hawkbill and Green turtle.

Legislation: Development of comprehensive environmental legislation.

**MINISTRY OF COMMERCE AND AGRICULTURE**

**Sudaiya Agricultural Experimentation Station**

Agricultural Affairs

PO Box 251

Bahrain

Chief of Research: Dr. T.I. Emecz

Established: 1942

Geographic area of responsibility: entire country

Main interests: Mammals and plants in coastal and desert areas; botanical gardens; experimental farm for species maintenance. Concerned with the impact of water pollution, solid and chemical waste.

Activities:

Research: Conducts research on salt tolerance and water economy of irrigated crops and trees; adaptation of livestock to desert climate; improving fertility and feed economics of local

livestock; maintenance of local species.

Legislation: Relating to land use and agriculture.

Enforcement: Relating to agriculture.

## **MINISTRY OF COMMERCE AND AGRICULTURE**

**Directorate of Fisheries**

PO Box 5479

Bahrain

Acting Director of Fisheries: Mr. Jassim A. Al-Qaseer

Established: 1968

Geographic area of responsibility: entire country

Main interests: Marine life in coastal and marine areas. Concerned with the impact of water pollution on fisheries.

### Activities:

Education: Provides education at secondary school level.

Research: Aquaculture, biological studies, environmental studies, fisheries technology, and fisheries statistics.

Establishment of protected areas: Protection of breeding and nursery areas for fish and shrimp.

Preservation of individual species: Established a four-month ban period on shrimp fishing to protect spawners in the spawning season. There is also a ban on capture of fry of important and endangered species.

Legislation: Develops laws and regulations relating to protection of the marine environment.

## Non-Governmental Organizations

### **BAHRAIN NATURAL HISTORY SOCIETY**

PO Box 20336

Bahrain

Contact: Tom Nightingale

Geographic area of responsibility: entire country

Main interests: Birds, mammals, reptiles, amphibians, plants.

### Activities:

Education: Published report on Wildlife in Bahrain.

## Universities/Research Institutions

### ARABIAN GULF UNIVERSITY

President of the University:

Prof. Mahmood Mohamed Safar

PO Box 26671

Adlya, Bahrain

Asst. Prof. of Ecology:

Dr. Alkhalili

PO Box 26809

Manama, Bahrain



Established: 1983

Geographic area of responsibility: The seven Arab countries of the Arabian Gulf region (Bahrain, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates)

Main interests: Birds, mammals, marine life and plants in forests, deserts, coastal and marine areas, wetlands; aquariums, botanical gardens, national parks, wildlife preserves and zoos. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development; energy, agriculture, and fisheries.

#### Activities:

Education: University level and post-graduate research.

Research: Desert and marine habitats, environmental studies. Interested in establishing a Marine Sciences study center which would include a marine supplies unit, aquarium practice, and mariculture studies.

Preservation of individual species: Interested in most of the threatened Arabian mammals, birds, reptiles and marine life.

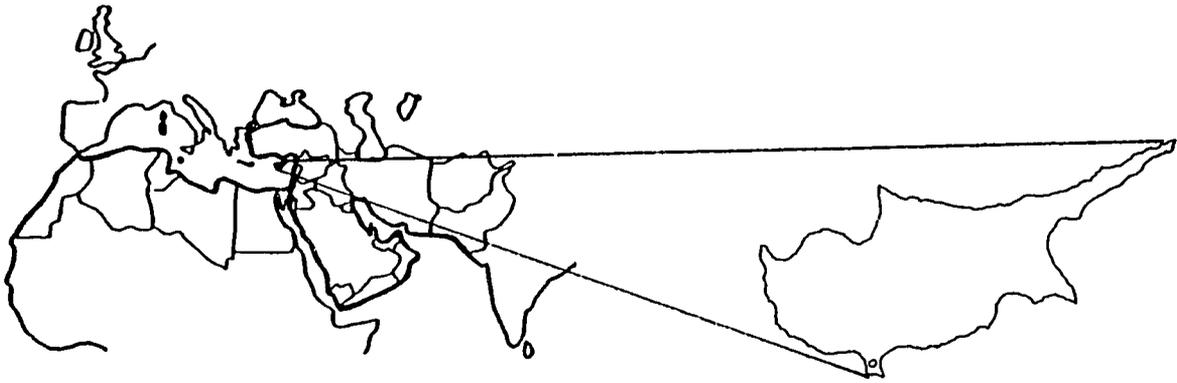
Legislation: Interested in international environmental laws, regional and local legislation related to the heritage and culture of the Arabian Gulf region.

**ADDITIONAL AGENCIES AND ORGANIZATIONS\***

Bahrain Centre for Studies and Research  
PO Box 496  
Manama, Bahrain

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# CYPRUS



Population: 665,000  
Area: 9,254 km<sup>2</sup> (3,572 sq.mi.)  
Languages: Greek, Turkish  
Convention signator: CITES  
World Heritage Convention

## Governmental Organizations

### **GAME AND FAUNA SERVICE** Nicosia, Cyprus

Head of the Service: Costas Papamichael  
Established: 1973  
Geographic area of responsibility: entire country

Main interests: Birds and mammals in wetlands; national parks, wildlife preserves and zoos. Concerned with the impact of water pollution and chemical waste.

#### Activities:

Education: Provides public information.

Research: To increase the population of game, such as Chukar, Francolin, hare, moufflon and the effect of foxes on these populations.

Preservation of individual species: The goal of the Service is the general management of the wildlife of the island.

Other: Establishment of protected areas; Legislation; and Enforcement.

**MINISTRY OF AGRICULTURE & NATURAL RESOURCES**

**Department of Fisheries**

Tagmatarchou Pouliou 5 & 7

Nicosia, Cyprus

Fisheries officer: Ms. Myroula Hadjichristophorou

Established: 1964

Geographic area of responsibility: entire country

Main interests: Marine life in coastal areas and wetlands; wildlife preserves. Concerned with the impact of water pollution and chemical waste on fisheries.

Activities:

Education: Provides public information.

Research: Marine turtles of Cyprus, including ecological and physiological research; monitoring and research on pollution; research on the ecology of marine habitats.

Establishment of protected areas: Coastal area, marine parks, wetlands, proposed within the framework of the UNEP-MAP protocol on Specially Protected Areas.

Preservation of individual species: Conservation work on marine turtles and protection of sea mammals.

Legislation: Involved with fisheries law.

Enforcement: Law enforcement is undertaken by the Preventive Service of the Department of Fisheries.

**MINISTRY OF AGRICULTURE & NATURAL RESOURCES**

**Environmental Conservation Service**

Nicosia, Cyprus

Head of Service: A.S. Pissarides

Established: 1981

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, coastal and marine areas, wetlands; national parks and wildlife preserves. Concerned with the impact of air, water and noise pollution, chemical waste, as well as environmental threats posed by industrial development; agriculture and fisheries.

Activities:

Education: Provides public information.

Other: Establishment of protected areas; Preservation of individual species; Legislation.

**MINISTRY OF AGRICULTURE & NATURAL RESOURCES**  
**Forestry Department**  
Nicosia, Cyprus

Director: L.I. Leontiades  
Established: 1881  
Geographic area of responsibility: entire country

Main interests: Plants in forests; botanical gardens, national parks, and wildlife preserves. Concerned with the destruction caused by fires.

Activities:

Education: Provides public information.

Research: Applied research mainly in the field of species trials and genetic improvement of forests trees (mainly pines).

Establishment of protected areas: Parts of the State Forests can be declared Nature Reserves for the protection and preservation of flora, fauna and landscape.

Preservation of individual species: Individual tree species even outside the State Forests can be bought and put under the protection of the Forestry Department. The Cyprus Moufflon, which exists in the Paphos Forest, enjoys complete protection.

Legislation: Laws/regulations related to Forestry.

## Non-Governmental Organizations

### **CYPRUS ORNITHOLOGICAL SOCIETY**

Kanaris Street No. 4  
Strovolos 105, Cyprus

Secretary: Pavlos Neophytou  
Established: 1970  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, and plants; wetlands, national parks, and wildlife preserves. Concerned with the impact of water pollution, as well as environmental threats posed by urban development.

Activities:

Education: Provides education to children of all ages, as well as to the general public. Works with police academies and teachers schools.

Research: Bird ringing.

Enforcement: Presses the government to enforce existing laws governing preservation.

Other: Establishment of protected areas; Preservation of individual species; Legislation.

**CYPRUS WILDLIFE SOCIETY**

PO Box 4281  
Nicosia, Cyprus

Secretary: Ms. M. Hadjichristophorou  
Established: 1984  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal areas, forests, and wetlands; national parks, wildlife preserves. Concerned with the impact of water pollution, as well as environmental threats posed by industrial and urban development.

Activities:

Education: Provides information to the general public.

**"ORIVATIKOS" MOUNTAINEERS & NATURE FRIENDS ASSOCIATION**

53 Riga Fereou Street  
Limassol 250, Cyprus

Honorary Secretary: Y.D. Potamitis  
Established: 1949  
Geographic area of responsibility: entire country

Main interests: Birds, marine life and plants in forests, coastal areas and wetlands; national parks and wildlife preserves. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial and urban development.

Activities:

Education: Provides education to children of all ages, as well as to the general public.

Establishment of protected areas: Pressing government for establishment of protected areas.

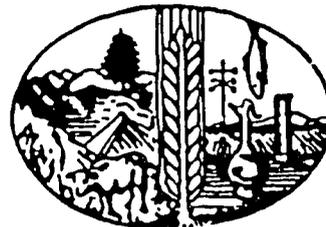
Legislation: Demanding complete environmental legislation.

"Orivatikos" is helped in its work by the "Environmental Committee of Limassol," an organization in which 40 other cultural, professional and mass non-governmental organizations participate and collaborate on nature conservation and environmental protection.

## Universities/Research Institutions

### **AGRICULTURAL RESEARCH INSTITUTE**

PO Box 2016  
Athalassa, Nicosia  
Cyprus



Director: Dr. C.S. Serghiou

Established: 1962, by the Ministry of Agriculture and Natural Resources

Geographic area of responsibility: entire country

Main interests: Agricultural mammals and plants.

#### Activities:

Research: The Institute is organized into six sections: Agronomy, Horticulture, Soil and Water Use, Plant Protection, Animal Production, and Agricultural Economics.

Preservation of individual species: There is an Herbarium at the Institute which serves as a named reference collection for the identification of unknown plants. The Institute has been cooperating in a program for the conservation and exchange of crop genetic resources, and maintains a genebank. In 1986 a program was initiated at the Institute for conservation of the native plants of Cyprus as a living collection and in seed form.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Association for the Protection of Cyprus  
Environment  
PO Box 2444  
Chanteclair Building  
Nicosia, Cyprus

Cyprus Hunters Association  
PO Box 1956  
Nicosia, Cyprus

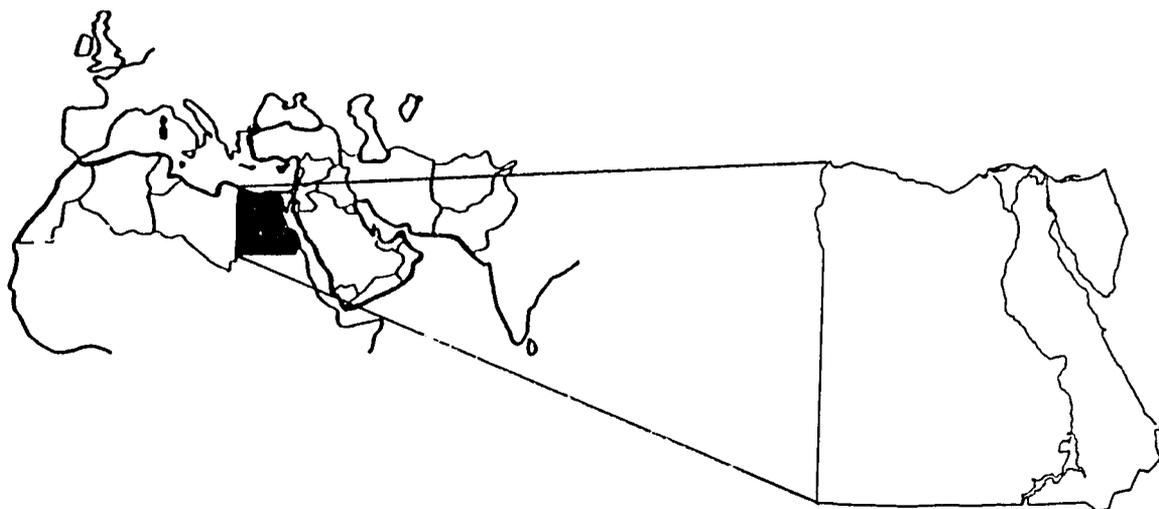
Ministry of the Interior  
Department of Lands and Surveys  
Nicosia, Cyprus

National History Museum  
Zoological Gardens  
Limassol, Cyprus

Society of Cyprus Studies  
PO Box 1436  
Nicosia, Cyprus

Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# EGYPT



Population: 49,000,000  
Area; 1,001,684 km<sup>2</sup> (386,650 sq.mi.)  
Language: Arabic  
Convention signator: CITES  
World Heritage

Nature Reserves: Saint Katherina and Mount Mousa Reserve  
Al Arish Reserve (Zaranik)  
Ras Mohammad Reserve  
Gebel Elba  
Pettrified Forest (Eastern desert)  
El Omayed

## Governmental Organizations

**ACADEMY OF SCIENTIFIC RESEARCH AND TECHNOLOGY**  
Kasr El-Einy Street  
Cairo, Egypt

Contact: Prof. A. Naguib  
Geographic area of responsibility: entire country

Main interests: Mammals, marine life and plants in coastal areas and deserts; national parks. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

**Activities:**

Research; Establishment of protected areas; Preservation of individual species; Legislation.

**EGYPTIAN ENVIRONMENTAL AFFAIRS AGENCY (EEAA)**

11 Hassan Sabry Street  
Zamalek, Cairo, Egypt

Director: Dr. E.E. Eid

Established: 1982

Geographic area of responsibility: entire country

**Main interests:** Birds, mammals, marine life and plants in coastal and marine areas, deserts, forests, and wetlands; aquarium, botanical gardens, national parks, wildlife preserves, and zoos. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development.

**Activities:**

Establishment of protected areas; Legislation; Enforcement.

**EGYPTIAN WILDLIFE SERVICE**

Giza Zoo  
Cairo, Egypt

General Director: Mohamed H. Amer

Established: 1978

Geographic area of responsibility: entire country

**Main interests:** Birds and mammals in coastal areas, deserts and wetlands; aquarium, wildlife preserves, zoos.

**Activities:**

**Education:** Provides public information.

**Research:** Mainly focused on ecology and conservation of endangered species of wildlife.

**Establishment of protected areas:** Proposed areas with unique features and values for wildlife.

**Preservation of individual species:** Breeding programs for endangered species of wildlife in zoo.

**Enforcement:** Patrols wildlife habitats in five Egyptian districts (Sinai, northern, southern, eastern and western Egypt).

## Non-Governmental Organizations

**EGYPTIAN ASSOCIATION FOR CONSERVATION OF NATURAL RESOURCES**  
c/o Zoological Gardens  
Giza, Egypt

Secretary: A. Maher Ali  
Established: 1975  
Geographic area of responsibility: entire country

Main interests: Deserts; wildlife preserves. Concerned with environmental threats posed by urban development; agriculture.

Activities:

Education: Provides public information.

Research: Publishes scientific periodical.

## Universities/Research Institutions

**AL-AZHAR UNIVERSITY**  
Faculty of Science  
Zoology Department  
Nasr-City, Egypt

Contact: Dr. Moustafa M. Fouda  
Established: 1970  
Geographic area of responsibility: Red Sea and Deserts

Main interests: Birds, mammals and marine life in coastal and marine areas, deserts, forests, and wetlands; national parks, wildlife preserves. Concerned with the impact of water pollution; fisheries.

Activities:

Education: University level; provides information to the general public.

Research: Red Sea ecosystem (coral reef communities, mangroves, sandy and rocky beach communities, etc.)

Establishment of protected areas: Ras Mohammed, Bardawil Lagoon, Gebel Elba region (Red Sea).

**ALEXANDRIA UNIVERSITY**  
Faculty of Science  
Oceanography Department  
Moharem Bey  
Alexandria, Egypt

Chairman, Oceanography Dept.: Prof. Naim M. Dowidar  
Established: 1948  
Geographic area of responsibility: entire country

Main interests: Marine life in coastal lakes and marine areas. Concerned with the impact of water pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development.

Activities:

Education: University level.

Research: Effect of pollution on marine and brackish water ecosystems.

Establishment of protected areas: Ras Mohammed, Sharm El Sheik-- Red Sea.

**ALEXANDRIA UNIVERSITY**  
Faculty of Science  
Zoology Department  
Alexandria, Egypt

Head: Prof. M.M. El Mofty

Main interests: Hazardous effects of drugs used in Egypt but banned in other countries.

Activities:

Education: University level.

Research: Carcinogenicity and teratogenicity of pesticides, drugs and some edible plants in Egypt.

**DESERT DEVELOPMENT CENTER**  
The American University in Cairo  
PO Box 2511  
Cairo, Egypt

Director: Dr. Adli Bishay  
Established: 1979  
Geographic area of responsibility: Northwest of Cairo (Western desert)

Main interests: Plants and farm animals in forests and deserts; botanical garden. Concerned with the impact of air, water and noise pollution, chemical waste, as well as environmental threats posed by industrial and urban development; desertification.

**Activities:**

**Education:** Public information; training.

**Research:** Integrated desert development.

**INSTITUTE OF AFRICAN RESEARCH AND STUDIES**

Department of Natural Resources

Cairo University

12613 Giza, Cairo, Egypt

Chair of Soil Biology: Prof. Samir I. Ghabbour

Established: 1971

Geographic area of responsibility: Egypt; Africa, with emphasis  
on North Africa and the Nile Basin

**Main interests:** Plants and soil invertebrates in wetlands,  
coastal areas, and deserts; national parks and wildlife  
preserves. Concerned with the impact of water pollution, as well  
as environmental threats posed by urban development; agriculture.

**Activities:**

**Education:** Post-graduate level.

**Research:** Ecology of populations of plants and animals.  
Establishing criteria for designation of protected areas based on  
biodiversity.

**Legislation:** Critiqued Law 102/1093 relating to the  
establishment of protected areas in Egypt.

**MONOUFEYA UNIVERSITY**

Faculty of Science

Shebeen El-Koom, Monoufeya

Egypt

Contact: Prof. Dr. Ahmed M. Mohamed, head of Zoology Department

Established: 1978

Geographic area of responsibility: entire country

**Main interests:** Mammals, marine life and plants; aquarium;  
botanical garden. Concerned with the impact of water pollution  
and chemical waste; fisheries.

**Activities:**

**Education:** University level.

**Research:** Water pollution by industrial wastes, pesticides,  
etc.; aquaculture; parasitic contamination.

**NATIONAL RESEARCH CENTRE**

Water Pollution Labs

Dokki - Cairo, Egypt

Head of Environment Division: Dr. Ahmed S. Moursy

Geographic area of responsibility: entire country

Main interests: Water pollution.

**OMAYED BIOSPHERE RESERVE**

Botany Department  
Faculty of Science  
Alexandria University  
Moharram Bey, Egypt

Contact: Prof. Mohamed Ayyed, Prof. of Ecology

Established: 1979

Geographic area of responsibility: Western Mediterranean coastal region of Egypt

Main interests: Birds, mammals, and plants in coastal areas and deserts. Concerned with agriculture and grazing.

Activities:

Education: Public information and university level.

Research: Ecosystems studies.

Other: Establishment of protected areas; Preservation of individual species; Legislation.

**SUEZ CANAL UNIVERSITY**

Faculty of Science  
Botany Department  
PO Box 502  
El-Shiek Zayed, Ismailia, Egypt

Contact: Dr. Mohamed Younis Ammar

Established: 1976

Geographic area of responsibility: Sinai, Eastern and Western Deserts

Main interests: Plants in coastal areas and deserts.

Activities:

Education: University level

Research: Plant ecology; phytochemistry; botany; microbiology; environmental biology.

Establishment of protected areas: In Sinai and Northwest coast of Egypt.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Ain Shams University  
Faculty of Agriculture  
Abbassia, Cairo, Egypt

Ain Shams University  
Institute of Environment  
Administration Building  
Abbassia, Cairo, Egypt

Ain Shams University  
Plant Protection Department  
Abbassia, Cairo, Egypt

Ain Shams University  
Faculty of Science  
Zoology Department  
Abbassia, Cairo, Egypt

Al Ahram Science Clubs  
Galaa Street  
Cairo, Egypt

Al Azhar University  
Faculty of Agriculture  
Cairo, Egypt

Alexandria Institute of Oceanography  
and Fisheries  
Kaved Bey  
Alexandria, Egypt

Alexandria University  
Faculty of Science  
Department of Botany  
Moharram Bey  
Alexandria, Egypt

Alexandria University  
Department of Environmental Health  
Higher Institute of Public Health  
165 El-Horreya Avenue  
Alexandria, Egypt

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

Alexandria University  
Faculty of Agriculture  
22 Al-Gueish Avenue  
Chatby, Alexandria, Egypt

Arab Office for Youth and the  
Environment  
PO Box 49  
Mania El Rada  
Cairo, Egypt

Assiut University  
Faculty of Agriculture  
Assiut, Egypt

Assiut University  
Faculty of Science  
Zoology Department  
Assiut, Egypt

Cairo University  
Faculty of Science  
Botany Department  
Giza, Cairo, Egypt

Cairo University  
Faculty of Science  
Zoology Department  
Giza, Cairo, Egypt

Cairo University  
Faculty of Veterinary Medicine  
Giza, Cairo, Egypt

Cairo - Zammalak Aquarium  
10 Hassan Sabry Street  
Zammalak, Cairo, Egypt

Egyptian Botanical Society  
1 Ozoris St.  
Garden City, Cairo, Egypt

Egyptian Shooting Club  
Dokki, Cairo, Egypt

Entomology and Plant Protection  
Department  
Higher Agricultural Institute  
Mansoura, Egypt

Entomology Museum  
14 Milika Nazli Street  
Cairo, Egypt

Governorate of North Sinai  
El Arish, North Sinai

Governorate of South Sinai  
El Tor, South Sinai

Hydrobiology Museum  
Anfushy  
Alexandria, Egypt

Institute of Oceanography and Fisheries  
101 Kasr El-Ainy Street  
Cairo, Egypt

Institute of Oceanography and Fisheries  
Attaqa  
PO Box 128  
Suez, Egypt

Institute of Oceanography and Fisheries  
Mediterranean Branch  
Kayet-Bey  
Alexandria, Egypt

Marine Biology Station  
Hurghada, Egypt

Ministerial Committee on Environment  
Cabinet Building  
Cairo, Egypt

Ministry of Agriculture  
Nadi el Seid St.  
Dokki, Cairo, Egypt

Ministry of Agriculture  
Institute of Horticultural Research  
Gamma Street  
Giza, Egypt

Ministry of Education  
Environmental Department  
Falaki Street  
Cairo, Egypt

Ministry of Health  
Department of Environmental Health  
Falaki Street  
Cairo, Egypt

Ministry of Maritime Transport  
National Committee for the Combat of Marine  
Pollution  
Alexandria, Egypt

National Committee for Man and Biosphere Program  
c/o National Committee for UNESCO  
17 Ismail Abdul-Fotouh  
Cairo, Egypt

National Committee for SCOPE (Scientific  
Committee on Problems of the Environment)  
of the International Council of Scientific  
Unions (ICSU)  
c/o Academy of Scientific Research and Technology  
101 Kasr El-Ainy Street  
Cairo, Egypt

Office for Reconstruction and Development  
for Sinai  
Sukan and Tasmir  
Mohammed Ali Street  
Ismailia, Cairo, Egypt

Ornithological Society of Egypt  
4 Ismail El Mazni Street  
Heliopolis, Cairo, Egypt

Plant Protection Research Institute  
Cairo University St.  
Giza, Egypt

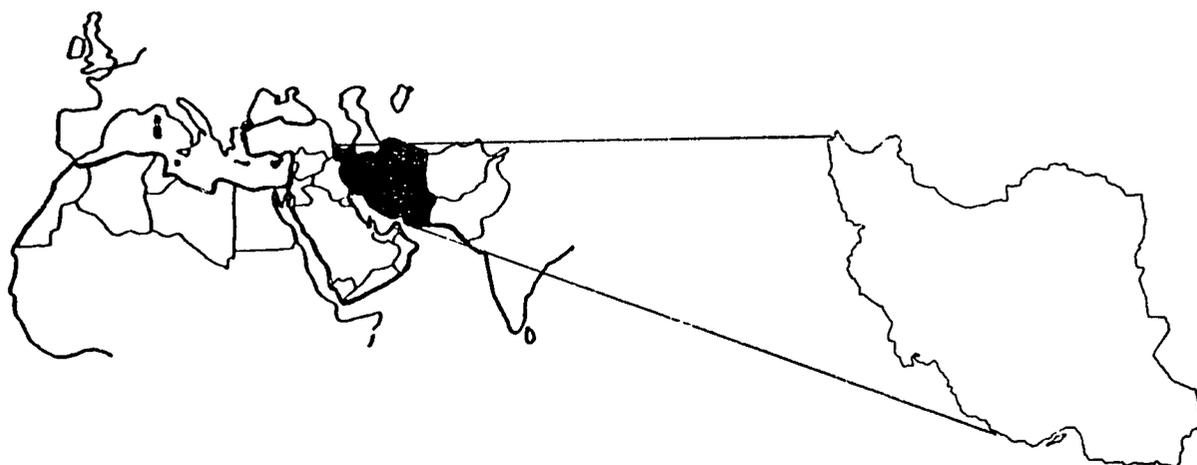
Société Entomologique d'Egypte  
[Egyptian Entomology Society]  
14 Sharia Ramses  
PO Box 430  
Cairo, Egypt

Suez Canal University  
Department of Marine Biology  
Ismailia, Egypt

Tanta University  
Faculty of Science  
Tanta, Egypt

Zoological Society of Egypt  
Giza Zoo  
Giza, Egypt

# IRAN



Population: 45,191,000

Area: 1,648,427 km<sup>2</sup> (636,293 sq.mi.)

Language: Farsi

Convention signator: CITES

Ramsar Convention  
World Heritage

National Parks: Kavir National Park  
Lake Rezaiyeh National Park  
Central Alborz National Park  
Bojnurd National Park  
Geno National Park  
Hara National Park  
Tandoureh National Park  
Bamou National Park  
Ghorkhod National Park  
Sarani National Park  
Arjan National Park - International Reserve

Wildlife Refuges: Touran Wildlife Refuge  
Bakhtegan Wildlife Refuge  
Shadegan Wildlife Refuge  
Hamoun Wildlife Refuge  
Khabr-va-Rouchoun Wildlife Refuge  
Mooteh Wildlife Refuge  
Khosh Yeilagh Wildlife Refuge  
Kiamaki Wildlife Refuge  
Mian Kaleh Wildlife Refuge  
Miandasht Wildlife Refuge  
Kolah Ghazi Wildlife Refuge

**Wildlife Refuges (continued):**

Arasbaran Wildlife Refuge  
Ghamishloo Wildlife Refuge  
Bisotoun Wildlife Refuge  
Dez and Karkheh Wildlife Refuge  
Siah Kesheem and Selke Wildlife Refuge  
Amir Kelayeh Wildlife Refuge  
Sheedvar Island Wildlife Refuge

## Governmental Organizations

### **DEPARTMENT OF THE ENVIRONMENT**

Ornithology Unit  
PO Box 15865-4565  
Tehran, Iran

Chief ornithologist: Jamshid Mansoori  
Established: 1955 (as the Hunting Club)  
1967 (as Game & Fish Dept.)  
Geographic area of responsibility: entire country

Main interests: Birds in wetlands; wildlife preserves. Concerned with the impact of water pollution, chemical and solid waste, as well as environmental threats posed by industrial and urban development; agriculture.

Activities:

Education: Provides education to children of all ages as well as to the general public.

Research Research on the preservation of nature and natural resources throughout the country.

Establishment of protected areas: The Department of the Environment has established protected areas since 1956.

Legislation: The Department is responsible for all laws and regulations related to the environment.

### **INSTITUT D'ETAT DES SERUMS ET VACCINS RAZI**

[Razi State Institute]  
PO Box 11365  
1158 Tehran, Iran

General Director: Dr. M. Baharsefat

Main interests: Livestock

Activities:

Research Biology, livestock diseases and basic medical and veterinary sciences.

## Universities/Research Institutions

### **CENTER FOR COORDINATION OF ENVIRONMENTAL STUDIES**

Tehran University  
Quds Ave. Building 43 - 6th floor  
Tehran, Iran

Director: Alireza Mesdaghinia, Ph.D.

Established: 1973

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, deserts, coastal and marine areas, wetlands; national parks. Concerned with the impact of air, water and noise pollution, solid and chemical waste, as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

#### Activities:

Research: Environmental studies.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Ariamehr Botanical Garden  
PO Box 8-6096  
Tehran, Iran

Fisheries Research Institute  
Box 66  
Bandar Enzani, Iran

International Scientific Research Institute  
PO Box 377  
Tehran, Iran

Iranian National Commission for UNESCO  
PO Box 11365-4498  
Tehran, Iran

Mazandarn University  
College of Forestry & Natural Resources  
PO Box 444  
Babolsar, Iran

Plant Pests and Diseases Research Institute  
PO Box 3178  
Tehran, Iran

Rasht University  
Faculty of Agriculture  
PO Box 401  
Rasht, Iran

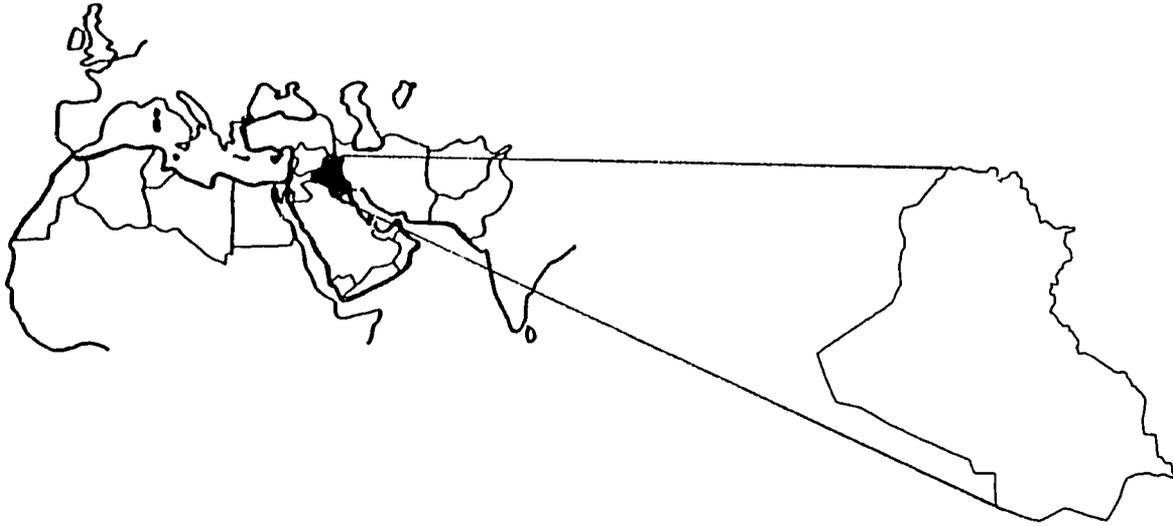
Shahid Chamran University  
Faculty of Veterinary Sciences  
Ahwaz Khuzestan, Iran

Tabriz University  
Faculty of Agriculture  
Tabriz, Iran

University of Tehran  
Faculty of Natural Resources  
Tehran, Iran

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# IRAQ



Population: 15,507,000  
Area: 435,036 km<sup>2</sup> (167,924 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

Nature Reserves: Kasseba Wild Animal Breeding Station  
The "7th of April" Wild Animal Breeding Station  
Rawdat Al Maha Wild Animal Breeding Station  
Zawitta/Dahouk Wild Animal Breeding Station  
Hijran/Irbil Wild Animal Breeding Station  
Deis/Al Ta'mem Wild Animal Breeding Station  
Der Bender Bazian/Sulaimania Breeding Station  
Sinjar/Ninawa Wild Animal Station

## Governmental Organizations

**MINISTRY OF AGRICULTURE & AGRICULTURAL  
REFORM**  
Baghdad, Iraq

Geographic area of responsibility: entire country

Main interests: Birds, mammals, plants in deserts, forests and wetlands; wildlife preserves; agriculture; fisheries.

Activities:

Other: Establishment of protected areas; Preservation of individual species; Legislation; Enforcement.

**MINISTRY OF HEALTH**

Baghdad, Iraq

Geographic area of responsibility: entire country

Main interests: Concerned with the impact of air, noise and water pollution, chemical and solid waste.

Activities:

Other: Legislation; Enforcement.

**Universities/Research Institutions**

**ARAB GULF RESEARCH CENTER**

University of Basrah

Basrah, Iraq

Geographic area of responsibility: Gulf region

Main interests: Marine life in coastal and marine areas; fisheries.

Activities:

Other: Education; Research.

**BIOLOGICAL RESEARCH CENTER**

PO Box 2371

Jadiriya, Baghdad

Iraq

Director: Prof. Azwar N. Khalaf

Established: 1963

Geographic area of responsibility: entire country

Main interests: Birds, mammals, plants, inland freshwater. Concerned with the impact of air and water pollution, as well as the environmental threats posed by industrial development; agriculture, fisheries.

Activities:

Education: University level.

Research: Basic and applied research in different aspects of biological sciences, agriculture and environmental pollution.

**IRAQ NATURAL HISTORY MUSEUM**  
University of Baghdad  
Bab-Almuadham  
Baghdad, Iraq



Director: Dr. Husain A. Ali  
Established: 1946  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, and plants of the desert;  
aquarium.

Activities:

Education: Provides education to children of all ages, as well as to the general public. Also works with Biology Departments and Institutes.

Research: Natural history and geology. Study of parasites and diseases of wild mammals and birds.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Agriculture & Water Resources  
Research Center  
PO Box 2416  
Karada Al-Sharkiya  
Baghdad, Iraq

Foundation for Scientific Research  
PO Box 255  
Baghdad, Iraq

Scientific Research Council  
PO Box 2441  
Jadiriya, Iraq

University of Basrah  
Department of Fisheries & Marine  
Resources  
Basrah, Iraq

University of Basrah  
Natural History Museum  
Basrah, Iraq

University of Basrah  
Zoology Department  
Basrah, Iraq

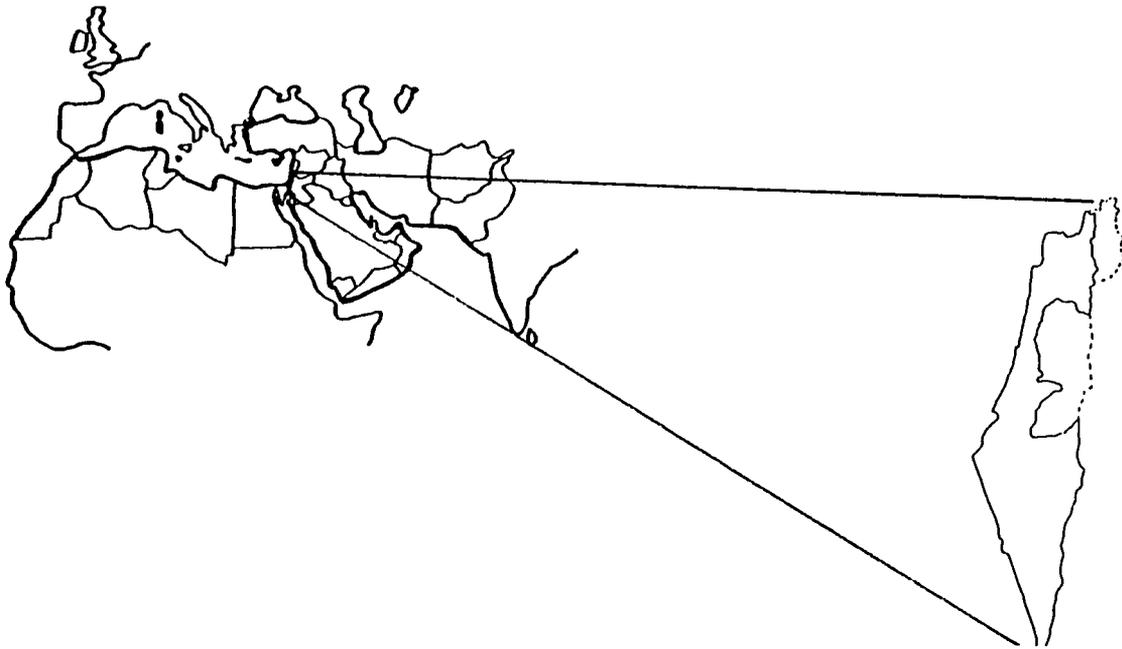
University of Mosul  
Center for Applied Agricultural  
Research  
Mosul, Iraq

University of Mosul  
College of Agriculture & Forestry  
Mosul, Iraq

Zaarfaraniyah Arboretum  
Zaarfaraniyah Horticultural Experiment  
Station  
Baghdad, Iraq

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# ISRAEL



Population: 4,128,000  
Area: 20,329 km<sup>2</sup> (7,847 sq.mi.)  
Languages: Hebrew, Arabic  
Convention signator: CITES

**Major Parks  
and Reserves:**

Biq'at Timna - Timna Valley Park  
En Gedi Reserve  
En Avdat Reserve  
Elat Coral Reserve  
Ramon Park  
Avshalom Reserve  
Hula Reserve  
Hai Bar, Carmel  
Banias Reserve  
Mount Meron Reserve  
Enot Tsuqim (Ein Fashka) Reserve  
Hai Bar, Yotvata

## Governmental Organizations

### FISHERY PRODUCTS LABORATORY

PO Box 699  
Haifa, 31000 Israel

Director: Abraham M. Herzberg  
Established: 1971  
Geographic area of responsibility: entire country

Main interests: Marine life; fisheries; pollution of seawater and shores.

Activities:  
Research: Product development; freshness determination; pesticide toxicity.

### KINNERET LIMNOLOGICAL LABORATORY

PO Box 345  
Tiberias, 14105 Israel

Director: Prof. T. Berman  
Established: 1968  
Geographic area of responsibility: Lake Kinneret & catchment area

Main interests: Concerned with the impact of water pollution; fisheries.

Activities:  
Research: General applied and theoretical limnological research on Lake Kinneret and its watershed.  
Part of the Israel Oceanographic and Limnological Research under the aegis of the Ministry of Energy and Infrastructure.

### MINISTRY OF AGRICULTURE

Department of Fisheries  
Fishing Technology Unit  
PO Box 584  
K. Motzkin 26117, Israel

Chief technologist/biologist: S. Pisanty  
Geographic area of responsibility: Eastern Mediterranean Sea, off the coast of Israel

Main interests: Marine life. Concerned with the impact of water pollution; fishery management.

Activities:  
Research: Fishing technology; surveys of exploitable marine populations.

**MINISTRY OF HEALTH**  
Public Health Laboratory  
15 Haparsim Street  
Haifa, Israel

Director: Dr. A. Mates  
Geographic area of responsibility: Northern Israel

Main interests: Concerned with the impact of water pollution.

Activities:  
Enforcement.

**MINISTRY OF THE INTERIOR**  
Environmental Protection Service  
PO Box 6158  
Jerusalem, Israel

Director: Dr. Uri Marinov  
Established: 1973  
Geographic area of responsibility: entire country

Main interests: Marine and coastal areas. Concerned with the impact of air, noise and water pollution, chemical and solid waste, pesticides, as well as environmental threats posed by industrial, urban, oil and gas development.

Activities:

Education: Provides education to children of all ages, as well as to the general public.

Research: Funds research on environmental pollution.

Legislation: Drafts and initiates environmental legislation in all areas, including marine pollution protection, air pollution, and noise control.

Enforcement: Increasing enforcement using marine pollution inspectors.

Involved with environmental impact statements; establishing environmental units at local government level. Special emphasis on the incorporation of environmental concerns into the planning process.

**NATURE RESERVES AUTHORITY**  
78 Yirmeyahu Street  
Jerusalem 94467, Israel

Director: Uri Baidats  
Head Scientist: Dr. Aviva Rabinovitch  
Established: 1965  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, plants, marine life, and geology in coastal and marine areas, forests, deserts and wetlands;



wildlife preserves. Concerned with the impact of water pollution, chemical and solid waste; agriculture, fisheries, forestry, grazing.

Activities:

Education: Provides information to primary and secondary schools, as well as to the general public.

Research: Management of nature reserves.

Other: Establishment of protected areas; preservation of individual species; legislation; enforcement.

**ZOOLOGICAL CENTER TEL AVIV-RAMAT GAN**

National Park  
Ramat Gan, Israel

Contact: Dr. A. Terkel  
Established: 1981

Main interests: Birds and mammals; wildlife preserves, zoos.

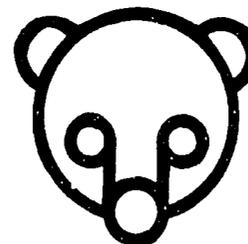
Activities:

Education: Provides education to children of all ages as well as to the general public.

Other: Research.

**Non-Governmental Organizations**

**BIOLOGICAL INSTITUTE**  
124 Hatishbi Street  
Haifa 34455, Israel



Director: Mrs. Pnina Sivan  
Established: 1949

Geographic area of responsibility: Haifa region and Carmel

Main interests: Botanical garden and zoo; educational center for natural sciences.

Activities:

Education: Provides education to primary and secondary school children, as well as to the general public; teacher training. All materials are in Hebrew.

Includes a pedagogical center, educational zoo, botanical garden and a small nature museum.

**CANADIAN CENTER FOR ECOLOGICAL ZOOLOGY (CCEZ)**

Department of Zoology  
Tel-Aviv University  
Tel-Aviv, 69975, Israel

Contact: Professor Emeritus H. Mendelssohn  
Established: 1937; (at present location, 1980)  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life, reptiles, amphibians, and insects in coastal and marine areas, deserts, and wetlands; aquarium and zoos. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial and urban development.

Activities:

Education: Provides nature conservation education to secondary school students, as well as to the general public.

Research: Environmental physiology, etho-ecology of local terrestrial vertebrates, ichthyology; entomology.

Establishment of protected areas: Area of center (6.5 acres) protected.

Preservation of individual species: Breeding groups of locally endangered species are kept at Center. Many raptor species. Advises the Nature Reserves Authority on conservation of endangered species and legislation.

**CORAL WORLD**

(Underwater Observatory and Aquarium)

PO Box 829  
Eilat, Israel

General Manager: Mr. Eitan Levy  
Established: 1975  
Geographic area of responsibility: Red Sea  
(Specifically Gulf of Eilat)

Coral World/Eilat



Main interests: Marine life; aquarium.

Activities:

Education: Provides education to primary and secondary school age children; open to the general public.

Other: Preservation of individual species.

**ISRAEL MAMMAL INFORMATION CENTER**

Field School  
PO Box 204  
Eilat, Israel

Contact: Dr. Benny Shalmon

Established: 1982

Geographic area of responsibility: entire country

Main interests: Mammals in forests, deserts and wetlands; wildlife preserves. Concerned with the impact of water pollution and chemical waste.

Activities:

Education: Provides education to primary and secondary age children, as well as to the general public.

Research: Endangered taxons (subspecies to order); e.g. a subspecies of gazelle (*C. gazella* ssp.), the otter and bats.

Preservation of individual species: Endangered mammal species.

Legislation: To protect mammals.

The organization encourages amateur mammalogists to watch mammals in their natural environments, and collects their observations so they can be used to evaluate the condition of mammal species and help to preserve them.

Belongs to the Society for the Protection of Nature in Israel.

**SOCIETY FOR THE PROTECTION OF NATURE  
IN ISRAEL (SPNI)**

13, Queen Helena Street  
PO Box 930  
Jerusalem 91008, Israel

Director, Information Department:

Joseph Shadur

Established: 1953

Geographic area of responsibility: entire country



Main interests: Birds, mammals, marine life, plants, landscapes in coastal and marine areas, deserts, forests, wetlands, and streams; botanical gardens, wildlife preserves. Concerned with the impact of air and water pollution, chemical and solid waste, as well as environmental threats posed by urban development.

Activities:

Education: Provides education to primary and secondary school age children, as well as to the general public.

Research: Specialized research and data collecting centers (see above). Mammals, herpetology, raptors, general birds, botanical entomological, speleological.

Other: Preservation of individual species.

## Universities/Research Institutions

### **BETH GORDON**

**The A.D. Gordon Agriculture &  
Nature of the Kinneret Valley Study Institute**  
Deganya A, 15120, Israel (M.P. Jordan Valley)

Director, Curator of Natural History: S. Lulav  
Established: 1935 (open to the public from 1941)  
Geographic area of responsibility: Entire country, but  
especially the Kinneret Lake Valley (Middle Jordan Valley)

Main interests: Birds, mammals, plants, and minerals.

#### Activities:

Education: Provides education to primary and secondary school age children, as well as to the general public.

Research: Local flora, fauna, climatology, archeology.  
Natural history and archeology museums; library (Life Sciences and Agriculture); Regional Central Meteorological Station.

### **JACOB BLAUSTEIN INSTITUTE FOR DESERT RESEARCH**

Ben-Gurion University of the Negev  
Sede Boger Campus, 84990, Israel



Senior Research Scientist: Dr. Philip U. Alkon

Established: 1978

Geographic area of responsibility: Negev Desert, including Arava (Rift Valley)

Main interests: Birds, mammals, plants of the desert; ecological research areas. Concerned with the impact of water pollution, chemical waste, as well as environmental threats posed by industrial and urban development, the military and tourism; agriculture.

#### Activities:

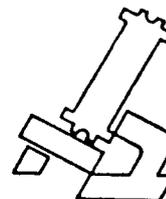
Research: Scientific aspects (including ecological and environmental) of human development and settlement of arid zones; ecological characteristics of desert organisms and ecosystems.

Establishment of protected areas: Protected areas for ecological research.

### **BAR-ILAN UNIVERSITY**

Department of Life Sciences  
Ramat-Gan 52100, Israel

Contacts: Prof. Zvy Dubinsky  
Prof. Yair Achituv



**Geographic area of responsibility:** Red Sea Coral Reefs

**Main interests:** Marine life. Concerned with the impact of water pollution, as well as environmental threats posed by urban and oil and gas development.

**Activities:**

**Research:** Structure and function of coral reef ecosystem and the ways they are affected by anthropogenic stresses.

**CENTER FOR MARITIME STUDIES**

University of Haifa  
Har Hacarmel  
Haifa 31999, Israel

**Senior Marine Biologist:** Dr. Ehud Spanier  
**Geographic area of responsibility:** entire country

**Main interests:** Marine life in coastal and marine areas; national parks. Concerned with the impact of water pollution, chemical waste, as well as environmental threats posed by industrial and urban development.

**Activities:**

**Research:**

**DIVISION OF NATURAL RESOURCES**

(Forestry Section)  
Agricultural Research Organization  
PO Box 6  
Bet-Dagan, 50250, Israel

**Contact:** Dr. D. Heth  
**Geographic area of responsibility:** entire country

**Main interests:** Forests. Concerned with the impact of air and water pollution, chemical waste, as well as environmental threats posed by industrial and urban development.

**Activities:**

**Research:** Forestry.

**HEBREW UNIVERSITY OF JERUSALEM**

Department of Zoology  
Jerusalem, Israel

**Contact:** Dr. Adam Ben-Tuvia  
Dr. Eitan Tchernov  
**Established:** 1925  
**Geographic area of responsibility:** entire country

Main interests: Birds, mammals, marine life, and plants in coastal areas, deserts, forests and wetlands; national parks, wildlife preserves. Concerned with the impact of water pollution; fisheries.

Activities:

Education: University level; provides information to the public.

Research: Ecology and management; fish systematics and biology.

Other: Establishment of protected areas; Preservation of individual species.

**HEBREW UNIVERSITY OF JERUSALEM**  
Faculty of Agriculture  
Department of Plant Protection  
PO Box 12  
Rehovot 76100, Israel

Chairman: Prof. Haggei Podoler  
Geographic area of responsibility: entire country

Main interests: Coastal, forest and desert areas; agriculture.

Activities:

Education: Undergraduate students.

Research: Integrated pest management (reducing use of hazardous pesticides); biological control of pests and diseases.

**HEBREW UNIVERSITY OF JERUSALEM**  
School of Applied Science &  
Technology  
Division of Human Environment  
Jerusalem, Israel

Director: Prof. Hillel I. Shuval  
Established: 1965  
Geographic area of responsibility: Israel, Mediterranean Sea.

Main interests: Marine life in coastal and marine areas, deserts. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by urban development.

Activities:

Education: Graduate level of university.

Research: Water quality and pollution control; air quality and pollution control; marine pollution; environmental health; water resource management.

**INSTITUTE FOR NATURE CONSERVATION RESEARCH**

Faculty of Life Sciences  
Tel-Aviv University  
Tel-Aviv, Israel

Director: Prof. Lev Fishelson  
Established: 1974  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, deserts, and forests; national parks, wildlife preserves, aquarium. Concerned with the impact of water pollution, chemical and solid waste, as well as environmental threats posed by urban development; agriculture.

Activities:

Education: University level; provides education to the general public.

Research: Integrated pest control; ecology of aquatic systems; biodetection of air pollution; coral reef ecology and conservation; marine ecosystem dynamics; water pollution; toxicology.

Preservation of individual species: protection of birds of prey, wolves, leopards, ibexes, gazelles.

**INSTITUTE OF EVOLUTION**

University of Haifa  
Haifa 31999, Israel



Director: Prof. Eviatar Nevo  
Established: 1977  
Geographic area of responsibility: entire country

Main interests: Mammals, plants, marine life. Concerned with the impact of water pollution; agriculture.

Activities:

Education: University undergraduate level.

Research: Genetic diversity in organic nature; improvement by genetic resources of wild ancestors of cereals (wheat, barley); quality of the marine environment; preservation of wild orchids.

Preservation of individual species: Involved only in the basic, theoretical work, not in implementation.

**INSTITUTE OF INTERNATIONAL AFFAIRS**

PO Box 17027  
Tel-Aviv 61170, Israel

Main interests: Interested only in national and international environmental law.

**INSTITUTES FOR APPLIED RESEARCH**  
Ben Gurion University of the Negev  
PO Box 1025  
Beer Cheva 84110, Israel

Plant Introduction Officer: I.A. Aronson  
Established: 1958  
Geographic area of responsibility: Negev desert and  
Dead Sea Rift Valley

Main interests: Plants; botanical garden.

Activities:

Research: Applied research in agriculture, biology,  
ecology, chemical and engineering.

**INTER-UNIVERSITY INSTITUTE OF EILAT**  
H. Steinitz Marine Biology Lab  
PO Box 469  
Eilat, Israel

Scientific Director: Dr. A. Baranes  
Established: 1968  
Geographic area of responsibility: entire country

Main interests: Marine life. Concerned with the impact of water  
pollution.

Activities:

Education: Undergraduate and graduate level.

Research: Marine biology, ecology and geology. Research  
includes taxonomy, biology, sociology and ecology of marine flora  
and fauna; the behavior of marine animals; the natural history of  
Red Sea sharks; marine microbiology; and the productivity of the  
ocean.

**ISRAEL OCEANOGRAPHIC & LIMNOLOGICAL RESEARCH**  
PO Box 8030  
Haifa 31080, Israel



Established: 1967  
Geographic area of responsibility: Seas and lakes in Israel

Main interests: Marine life in lakes and other marine  
environments. Concerned with the impact of water pollution and  
chemical waste.

Activities:

Research: Seas and lakes on topics of national interest.

**TEL-AVIV UNIVERSITY**

Department of Zoology  
69-978 Ramat-Aviv, Israel

Contact: Dr. Heinrich Mendelssohn

Geographic area of responsibility: entire country

Main interests: Birds, mammals, reptiles, and amphibians in deserts, forests and wetlands; national parks, wildlife preserves, zoos. Concerned with the impact of chemical and solid waste, water pollution, as well as environmental threats posed by industrial and urban development, tourism; agriculture.

Activities:

Education: University level; Arab secondary schools; provides information to the general public.

Research: Nature conservation; etho-ecology of terrestrial vertebrates, endangered species and ecosystems.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Genetic Society of Israel  
c/o Agricultural Research Organization  
Regional Experiment Station  
Neve Ya'ar, Israel

Israel Raptor Information Center  
Har Gilo FSC  
Doar Na Harei  
Jerusalem 91076, Israel

Ministry of Agriculture  
Plant Protection Department  
Hakiryia  
Tel Aviv, Israel

Ministry of Agriculture  
Section for Nature & Wildlife Protection  
Hakiryia  
Tel Aviv, Israel

National Committee on Biosphere and Environment  
Hakiryia Building 3  
Jerusalem 91000, Israel

National Institute of Oceanography of Haifa  
PO Box 8030  
Haifa 31080, Israel

National Parks Authority  
Rehov Het 3  
Hakiryia  
PO Box 7028  
Tel Aviv, Israel

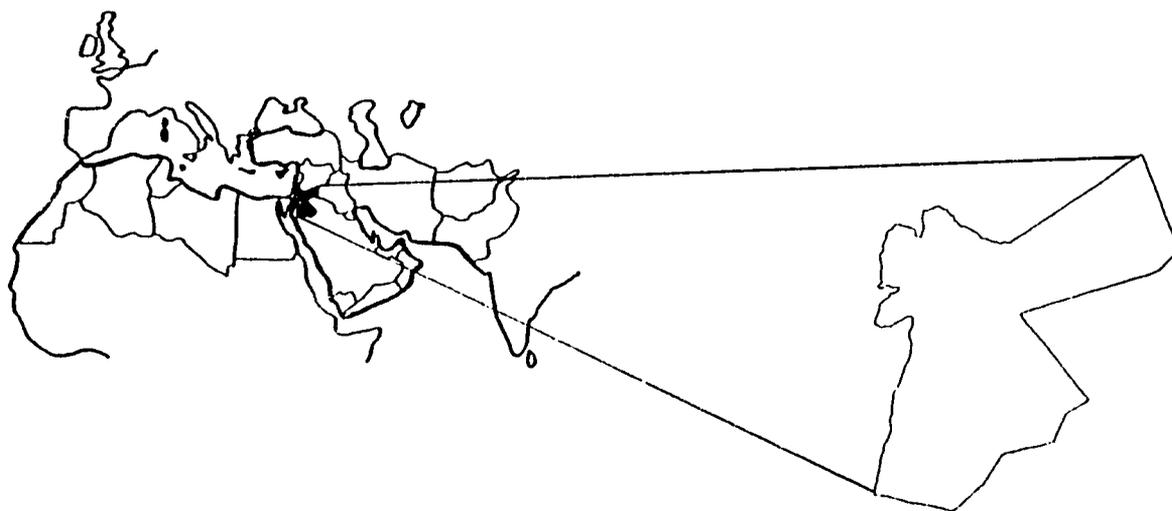
Research Institute for Environmental  
Health Nuisance  
Sakler Building  
University of Tel Aviv  
Ramat-Aviv, Israel

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

Undersea Exploration Society  
c/o National Maritime Museum  
148 Alenby Street  
Haifa, Israel

Weizmann Institute of Science  
PO Box 26  
Rahovot 76100, Israel

# JORDAN



Population: 2,668,000  
Area: 97,764 km<sup>2</sup> (37,737 sq.mi.)  
Language: Arabic  
Convention signator: CITES  
Ramsar Convention  
World Heritage

Wildlife Reserves: Wadi Mujib Wildlife Reserve  
Shaumari Reserve  
Al Azraq Wetland Reserve

## Non-Governmental Organizations

**ROYAL SCIENTIFIC SOCIETY (RSS)**  
Environmental Pollution Studies Division  
PO Box 925819  
Amman, Jordan

Manager: Mr. S. Ramadan  
Established: 1970  
Geographic area of responsibility: entire country

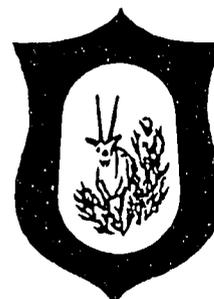
Main interests: The impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

**Activities:**

**Education:** Provides public information.

**Research:** Provides assistance for the design, operation and maintenance of water and wastewater treatment plants. Monitoring pollutants.

**THE ROYAL SOCIETY FOR  
THE CONSERVATION OF NATURE**  
PO Box 6354  
Amman, Jordan



Director: Maher Z. Abu Jafar  
Established: 1966  
Geographic area of responsibility: entire country

**Main interests:** Birds, mammals, marine life and plants; wetlands; national parks, and wildlife preserves. Concerned with the impact of water pollution.

**Activities:**

**Education:** Provides education to primary school children, as well as to the general public.

**Research:** Conducted by Jordan University on the effect of the Arabian Oryx and wild animals on vegetation in the Shaumari Wildlife Reserve.

**Establishment of protected areas:** Shaumari Wildlife Reserve, Azraq Wetland Reserve and Wadi Mujib Wildlife Reserve, in addition to nine proposed wildlife reserves throughout Jordan.

**Preservation of individual species:** Arabian Oryx, Ibex, Dorcas Gazelle, Mountain Gazelle, Persian Gazelle, Blue-necked Ostrich, Syrian Wild Ass.

**Other:** Legislation.

## Universities/Research Institutions

**MARINE SCIENCE STATION**  
PO Box 195  
Aqaba, Jordan

Director: Dr. M. Wahbeh  
Established: 1974  
Geographic area of responsibility: Jordan coast of Gulf of Aqaba

**Activities:**

**Education:** Postgraduate level.

**Research:** Basic, chemical and biological oceanography.

**UNIVERSITY OF JORDAN**  
Faculty of Science  
Department of Biological Sciences  
Amman, Jordan

Associate Professor: Dr. Ahmad M. Disi  
Geographic area of responsibility: entire country

Main interests: Desert animals; wildlife preserves and zoos.  
Concerned with the impact of air and water pollution, chemical waste as well as environmental threats posed by industrial and urban development.

Activities:

Education: University level; public information.  
Research: The effect of environmental factors on the distribution of animals.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Jordan Research Council  
PO Box 6070  
Amman, Jordan

Ministry of Agriculture  
PO Box 2099  
Amman, Jordan

Ministry of the Interior and  
the Environment  
PO Box 35206  
Amman, Jordan

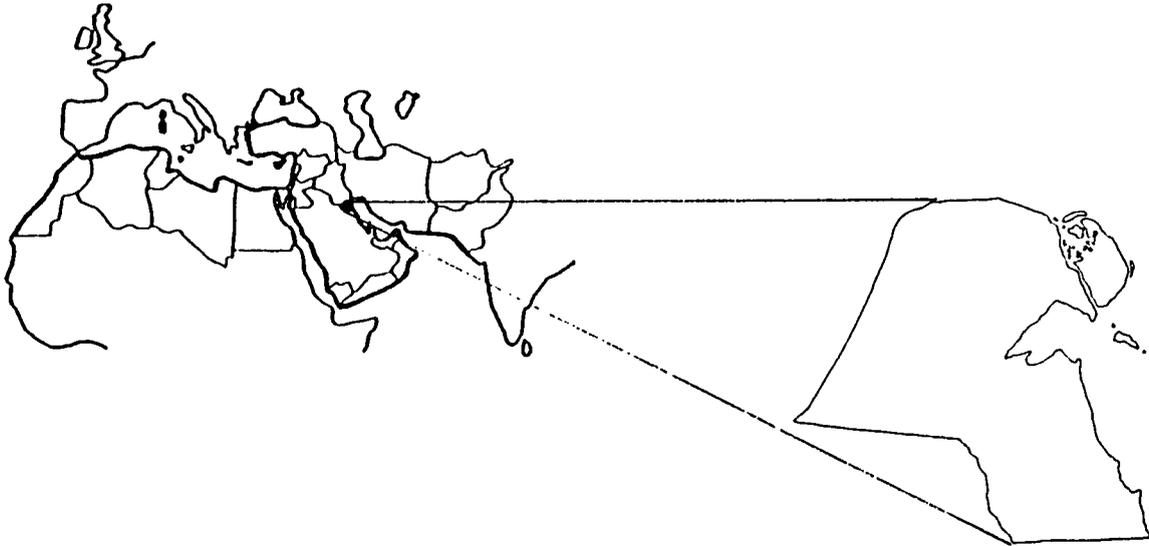
Ministry of Tourism  
National Parks & Historical Monuments  
System of Jordan  
PO Box 224  
Amman, Jordan

University of Jordan  
Department of Biology  
Amman, Jordan

Yarmouk University  
Faculty of Science  
PO Box 566  
Irbid, Jordan

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# KUWAIT

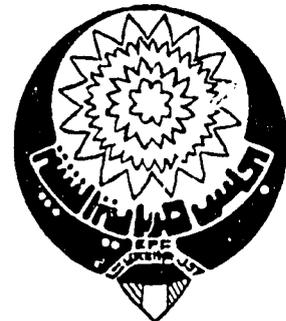


Population: 1,710,000  
Area: 17,824 km<sup>2</sup> (6,880 sq.mi.)  
Language: Arabic

## Governmental Organizations

**ENVIRONMENT PROTECTION COUNCIL**  
PO Box 24395 Safat  
13104 Safat, Kuwait

Secretary General: Mr. Ibrahim M. Hadi  
Established: 1980  
Geographic area of responsibility: entire country



Main interests: Birds, mammals, marine life and plants in coastal and marine areas, deserts, wetlands; national parks, wildlife preserves. Concerned with the impact of air and water pollution, as well as environmental threats posed by industrial, urban, oil and gas development.

### Activities:

Education: Provides public information.

Research: Field investigation of the birds of Kuwait, study of desert animals and plants. Study of coral reef ecosystem in progress.

Establishment of protected areas: Establishment of marine

parks is being considered. A national park is being established by the Municipality of Kuwait.

Preservation of individual species: Commercial fishing of shrimp is not allowed during the spawning season. Type of nets used for catching fish regulated. Measures taken to prevent decline of marine turtles.

Legislation: Decree Law No. 62/80 regarding protection of the environment.

Enforcement: Responsible for enforcement of environmental laws along with the Municipality of Kuwait, Agricultural Affairs and Fish Resources Authority.

**KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH**  
PO Box 24885 Safat  
13109 Safat, Kuwait



Director General: Dr. Homoud Al-Rqobah  
Established: 1967  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, wetlands, forests, and deserts aquarium, national parks and wildlife preserves. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

Activities:

Research: Developing national food resources; protection and management of the environment in addition to coastal investigations; providing water resource bases and efficient use of water; adopting and developing new technologies; conducting economic analysis and feasibility studies; providing scientific support for the oil sector in Kuwait.

**WATER RESOURCES DEVELOPMENT CENTRE**  
Ministry of Electricity and Water  
PO Box 12020 Shamiya  
71651 Shamiya, Kuwait

Director: Dr. Fatma Al-Awadi  
Established: 1968  
Geographic area of responsibility: entire country

Main interests: Impact of air and water pollution.

Activities:

Research: Research/development work in the field of water resources. Technical, engineering, environmental and economic aspects of water desalination, analysis and treatment.

## Non-Governmental Organizations

### **REGIONAL ORGANIZATION FOR THE PROTECTION OF THE MARINE ENVIRONMENT (ROPME)**

PO Box 26388 Safat  
13124 Safat, Kuwait



Coordinator: Dr. (Ms.) Badria Al-Awadi  
Acting Executive Secretary: H.E. Dr. Abdul Rahman Al-Awadi,  
Minister of Health for the State of Kuwait

Established: 1969

Geographic area of responsibility: Sea area surrounded by the  
eight countries of the region (Bahrain, Iran, Iraq, Kuwait,  
Oman, Qatar and the United Arab Emirates).

Main interests: Protection of the marine environment from  
pollution resulting from chemical and solid waste, oil and other  
toxic substances.

## Universities/Research Institutions

### **KUWAIT UNIVERSITY**

Faculty of Science  
Department of Botany and Microbiology  
PO Box 5969  
Safat, Kuwait

Contact: Prof. Dr. S.S. Radwan

Established: 1966

Geographic area of responsibility: entire country

Main interests: Marine life, plants and microorganisms in coastal  
and marine areas and deserts. Concerned with the impact of water  
pollution and chemical waste, as well as environmental threats  
posed by industrial development.

### Activities:

Education: University level.

Research: Environmental studies, different branches of  
botany and microbiology.

**KUWAIT UNIVERSITY**  
Faculty of Science  
Department of Zoology  
PO Box 5969  
Safat, Kuwait

Established: 1966

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life in coastal and marine areas and deserts. Concerned with the impact of water pollution, desertification, as well as environmental threats posed by urban development; fisheries.

Activities:

Education: University level.

Research: Desert and marine biology and ecology.

Establishment of protected areas: In charge of establishing a desert reserve area.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Ahmadi National History &  
Field Studies Group  
c/o Kuwait Oil Company  
PO Box 103  
Ahmadi, Kuwait

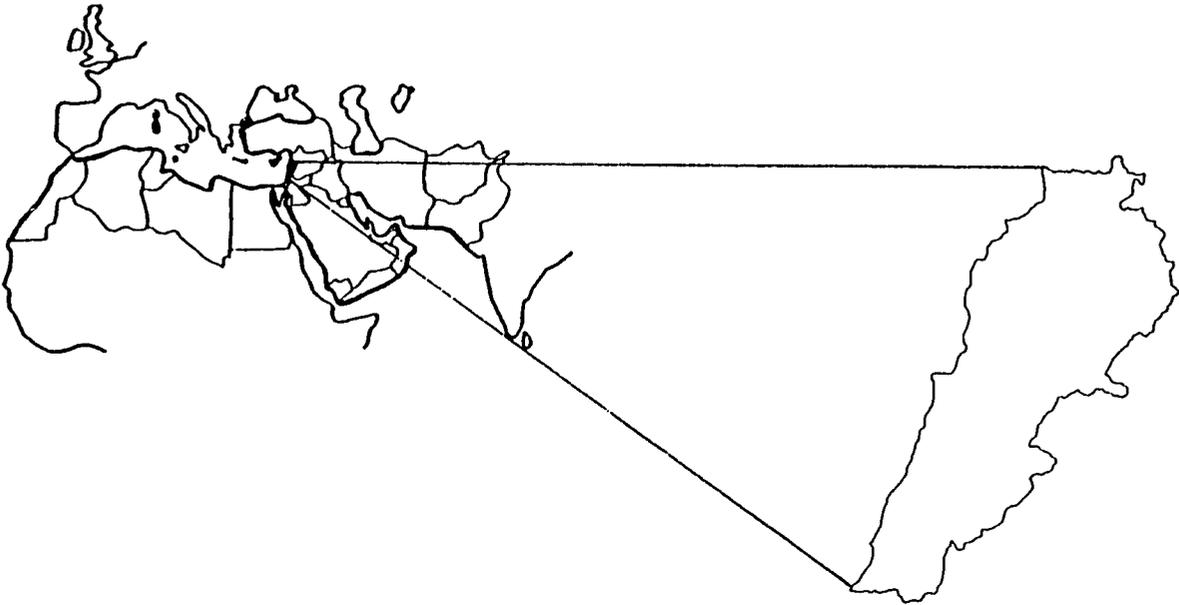
Environmental Protection Centre  
Shusiba Area Authority  
PO Box 4690  
Sata, Kuwait

Ministry of Public Health  
Human Environment Project  
PO Box 5  
13001 Safat, Kuwait

The Public Authority for  
Agriculture and Fishing  
PO Box 21422  
Safat, Kuwait

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# LEBANON



Population: 2,619,000  
Area: 10,402 km<sup>2</sup> (4,015 sq.mi.)  
Language: Arabic

## Governmental Organizations

### **LEBANESE NATIONAL COUNCIL FOR SCIENTIFIC RESEARCH**

PO Box 11-8281  
Beirut, Lebanon

Director General: Dr. M. Saufi

Established: 1968

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, forests, deserts, and wetlands; national parks, wildlife preserves. Concerned with the impact of air, noise and water pollution, chemical and solid waste, as well as environmental threats posed by oil, gas, industrial, and urban development; agriculture, fisheries.

#### Activities:

Education: Provides public information.

Research: Broad range of environmental research.

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Establishment of protected areas: Working on forest reserves where national cedar tree exists.

Enforcement: Limited, local enforcement.

## Non-Governmental Organizations

### NATIONAL HUNTING COUNCIL

PO Box 3617  
Beirut, Lebanon

President: Fouad Salam

Established: 1974

Geographic area of responsibility: entire country

Main interests: Birds and mammals in coastal areas, deserts, forests and wetlands; national parks, wildlife preserves, zoos.

Activities:

Research; Establishment of protected areas; Preservation of individual species; Legislation; Enforcement.

### SOCIETY FOR PROTECTION OF NATURE & NATURAL RESOURCES IN LEBANON (SPNL)

PO Box 11-5665  
Beirut, Lebanon

Chairman: Assad Serhal

Established: 1984

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, deserts, forests, and wetlands; botanical garden, national parks, wildlife preserves, zoos. Concerned with the impact of air, noise and water pollution, solid and chemical waste, as well as environmental threats posed by urban development; agriculture, fisheries.

Activities:

Education: Provides public information.

Research: Status of wildlife in Lebanon, especially endangered species.

Other: Establishment of protected areas; Preservation of individual species; Legislation.



## Universities/Research Institutions

### **AMERICAN UNIVERSITY OF BEIRUT**

Faculty of Agricultural & Food Sciences  
PO Box 11-0236  
Beirut, Lebanon

Contact: Dr. Fawwak T. Sleiman,  
Advisor to Minister of Agriculture  
Geographic area of responsibility: entire country,  
particularly Beka'a District

Main interests: Birds, mammals and plants in forests; wildlife preserves. Concerned with the impact of solid waste, as well as environmental threats posed by industrial and urban development; agriculture.

Activities:

Research: Animal and plant production and protection.

### **MARINE RESEARCH CENTRE**

National Council for Scientific Research  
PO Box 123  
Jounieh, Lebanon

Director: Dr. H.H. Kouyoumjian

Established: 1978

Geographic area of responsibility: entire country



Main interests: Marine life in coastal and marine areas. Concerned with the impact of water pollution and chemical waste; fisheries.

Activities:

Research: Environmental monitoring; primary and secondary productivity; fish parasitology; hydrography.

Legislation: Involved in study of water quality criteria relating to future legislation.

Other: Involved closely with the Mediterranean Action Plan of the United Nations Environment Programme.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Agronomy Research Institute  
Tel Amara par Rayak, Lebanon

American University of Beirut  
Faculty of Agricultural Sciences  
Crop Production & Protection Division  
Beirut, Lebanon

American University of Beirut  
Natural History Museum  
Beirut, Lebanon

Beirut Arab University  
Tarik El-Jadide  
PO Box 5020  
Beirut, Lebanon

Lebanese University  
Faculty of Agronomy  
Place du Musee  
Beirut, Lebanon

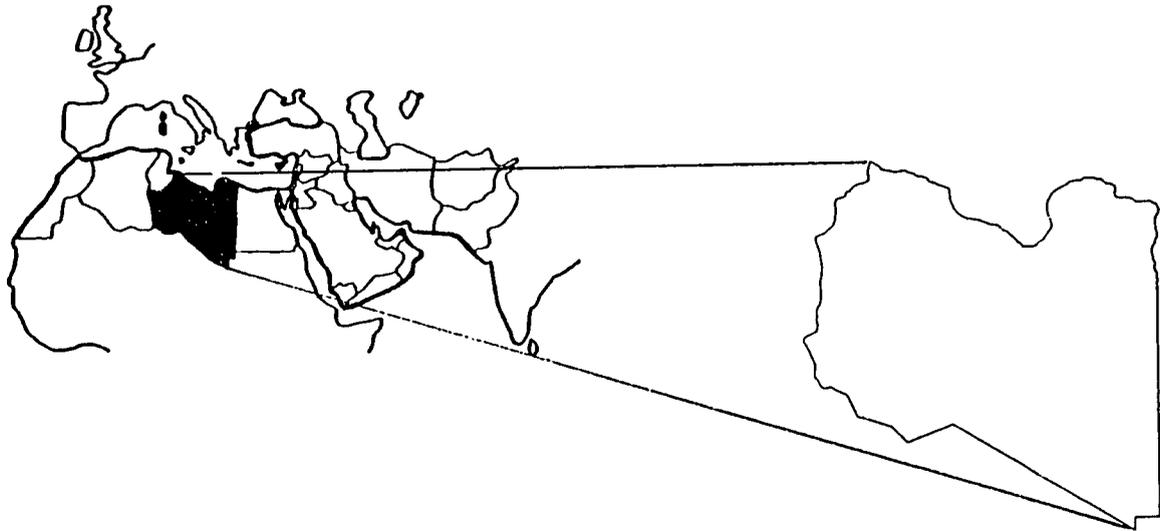
Lebanese University  
Faculty of Sciences  
Place du Musee  
Beirut, Lebanon

Ministry of Agriculture  
Animal Resources Service  
Beirut, Lebanon

Ministry of Agriculture  
Fisheries Resources Service  
Beirut, Lebanon

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# LIBYA



Population: 3,752,000  
Area: 1,759,997 km<sup>2</sup> (679,359 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

National Park: Al Kouf National Park

Nature Reserve: Tripoli Reserve

## Universities/Research Institutions

**MARINE BIOLOGY RESEARCH CENTRE**  
PO Box 30830  
Tajura, Libya

Director General: A. Huni Atig  
Established: 1981

Main interests: Marine life and fisheries.

### Activities:

Education: University level

Research: Fisheries biology; aquaculture; marine pollution monitoring.

Establishment of protected areas: The Centre is a focal point for this activity.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Alfateh University  
Faculty of Science  
PO Box 13040  
Tripoli, Libya

Kouf National Park  
PO Box 1302  
Beida, Libya

Marine Fisheries Research Centre  
PO Box 315  
Bab El-Bahr  
Tripoli, Libya

Ministry of Agriculture & Agrarian Reform  
Forest and Range Management Department  
Tripoli, Libya

Ministry of Agriculture & Agrarian Reform  
Plant Protection Department  
Sidi Mesri  
Tripoli, Libya

Ministry of Agriculture & Agrarian Reform  
Veterinary Department  
Sidi Mesri  
Tripoli, Libya

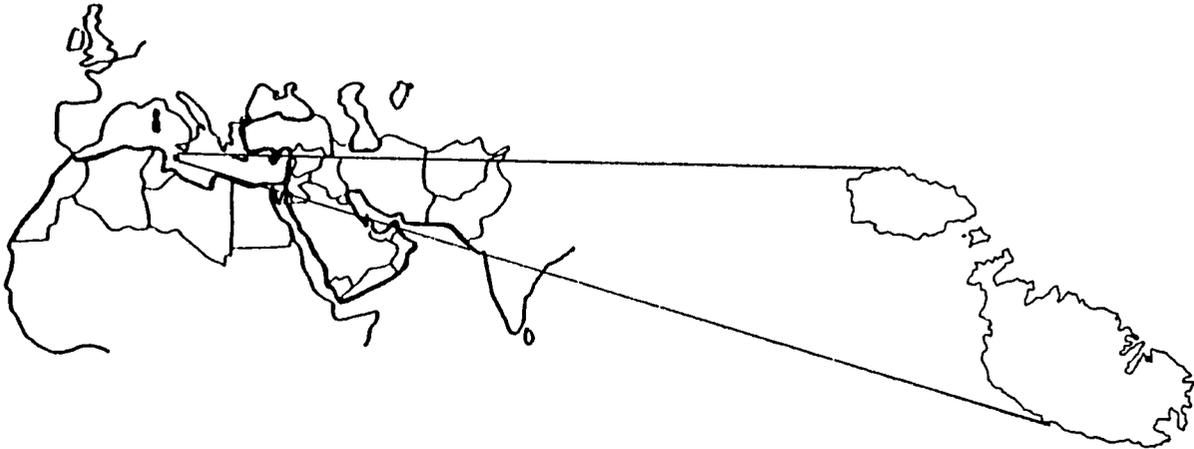
Ministry of Industry & Mineral Wealth  
Fisheries Department  
Tripoli, Libya

University of Garyounis  
Faculty of Science  
PO Box 1308  
Benghazi, Libya

University of Libya  
Faculty of Science  
Zoology Department  
Tripoli, Libya

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# MALTA



Population: 355,000  
Area: 316 km<sup>2</sup> (122 sq.mi.)  
Languages: Maltese, English  
Convention signator: World Heritage

## Governmental Organizations

**INSTITUTE OF DESIGN FOR  
ENVIRONMENTAL ACTION (IDEA)**  
Ministry of Education and Environment  
Beltissebh, Malta



Director General: Vincent V. Farrugia  
Established: 1986  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, wetlands; wildlife preserves. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by urban and industrial development; agriculture.

### Activities:

Education: Provides education to children of all ages as well as to the general public.

Research: Coordinates efforts with other national bodies

to focus on pollution control, environmental education and environmental design.

Establishment of protected areas: Involved with establishment and management of nature reserves and designation of open space.

Preservation of individual species: Up-dating the red-data list for the Maltese Islands and carrying out projects to protect flora and fauna.

Legislation: Proposes environmental legislation to the Minister responsible for the Environment.

Enforcement: Involved with enforcement of environmental laws in coordination with Police Authorities.

The Institute is divided into various units including: Environmental Education and Information Unit, Conservation and Reserves Unit, Environmental Maintenance Unit, Anti-Pollution Unit, Research Unit, and the Environmental Design Centre. It also will be coordinating some of its functions with NGO's.

## Non-Governmental Organizations

**INTERNATIONAL OCEAN INSTITUTE**  
59 Old Mint Street  
Valletta, Malta

Geographic area of responsibility: world oceans

Main interests: Marine life and mineral resources.

Activities:

Education: Training for technical and political personnel of developing countries in Marine Resource Management and related topics.

**NIVOSA CONCHOLOGICAL SOCIETY**  
Block F, Door 2  
Laqxija Housing Estate  
B'Kara, Malta

Contact: Anthony Sammut

Established: 1978

Geographic area of responsibility: entire country

Main interests: Marine life, shells in coastal and marine areas.

Activities:

Research: Relating to sea-shells.

**THE ORNITHOLOGICAL SOCIETY (MOS)**

PO Box 498  
Valletta, Malta



Hon. General Secretary: A.E. Baldacchino  
President: Joe Sultana  
Established: 1962  
Geographic area of responsibility: entire country

Main interests: Birds. Concerned with environmental threats posed by industrial and urban development, as well as other human activities.

Activities:

Education: Provides education to children of all ages as well as to the general public. Publishes various journals.

Research: Ornithology, mainly through bird-ringing project.

Establishment of protected areas: Pressure group for the establishment of protected areas. Helped establish Malta's first nature reserve.

Legislation: Presses for adequate legislation and advises government.

Enforcement: Presses authorities to enforce laws.

**Universities/Research Institutions**

**INTERNATIONAL ENVIRONMENT INSTITUTE**  
c/o Foundation for International Studies  
Old University Building  
St. Paul Street  
Valletta, Malta



Contact: Dr. Tony Macelli  
Established: 1986, autonomous institute with university and government links  
Geographic area of responsibility: entire country, as well as developing countries and the Mediterranean

Main interests: Birds, marine life and plants in coastal and marine areas. Concerned with the impact of air, water and noise pollution, solid waste, as well as environmental threats posed by industrial and urban development; agriculture, fisheries.

Activities:

Education: Offers graduate university degrees.

**UNIVERSITY OF MALTA**  
Department of Science  
Msida, Malta

Head of Department: Professor V. Axiak  
Established: 1987 (in 1978 set up within the Department of  
Mathematics and Science)  
Geographic area of responsibility: entire country

Main interests: Mammals, marine life, and plants in coastal and  
marine areas; aquarium. Concerned with the impact of water  
pollution on fisheries.

Activities:

Education: University level.

Research: Biological effects of pollutants on the marine  
environment. Ecology of local flora and fauna.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Central Pollution Control Committee  
c/o H.Q. Armed Forces of Malta  
Luqa, Malta

Department of Agriculture & Fisheries  
14, Scots Street  
Valletta, Malta

GREENPEACE (Malta)  
PO Box 519  
Valletta, Malta

Ministry of Education and Culture  
Lascaris  
Valletta, Malta

Ministry of Health and Environment  
14, Merchants Street  
Valletta, Malta

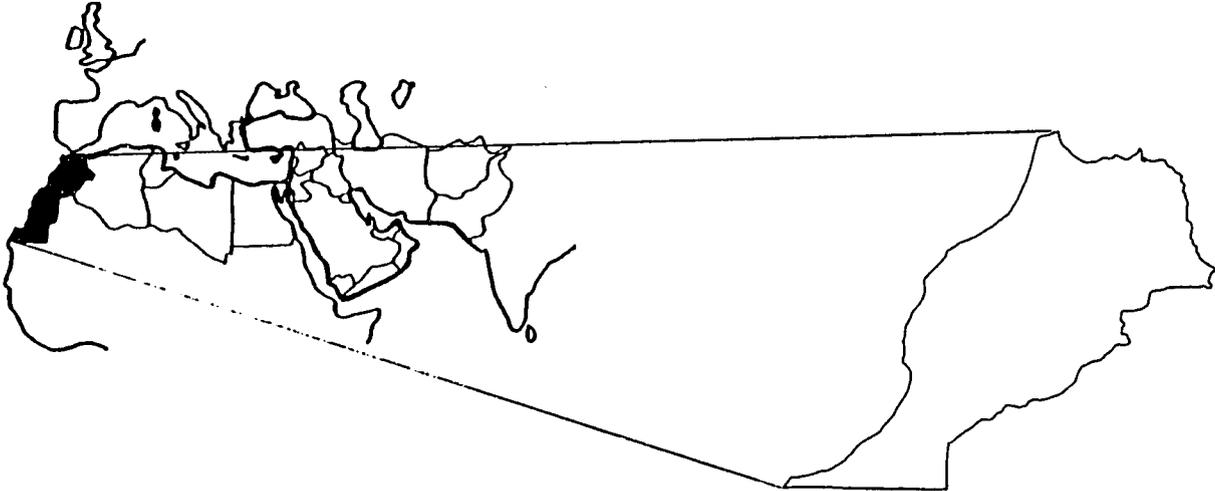
Natural History Society of Malta  
3 New Street  
Sliema, Malta

Regional Oil Combatting Center  
for the Mediterranean Sea  
Manoel Island  
Gzira, Malta

Society for the Study and Conservation  
of Nature in Malta  
PO Box 459  
Valletta, Malta

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# MOROCCO



Population: 23,117,000  
Area: 446,666 km<sup>2</sup> (172,413 sq.mi.)  
Languages: Arabic (French)  
Convention signator: CITES  
Ramsar Convention  
World Heritage

National Parks: Mount Tazaka National Park  
Mount Toubkal National Park

Nature Reserves: Wadi Massa Reserve  
Kneefis Lake Reserve  
Al-Souwari Island Reserve  
Seydi Shaikar Reserve  
Marj Mawlai Bou Salham Reserve  
Zamzam Reserve

## Governmental Organizations

**CASABLANCA AQUARIUM**  
2 rue Tiznit  
Casablanca, Morocco

Contact: Aouab Taha  
Established: 1960

Geographic area of responsibility: entire country

Main interests: Marine life; aquarium. Concerned with the impact of water pollution.

Activities:

Education: Provides public information.

Preservation of individual species: Marine mammals.

**LABORATOIRE DE RECHERCHES ET  
D'ANALYSES VETERINAIRES  
[Laboratory for Veterinary  
Research and Analysis]**

41, rue de Tours  
Casablanca, Morocco

Director: Abdelhaq Tber

Geographic area of responsibility: entire country

Main interests: Birds, mammals and marine life; national parks. Concerned with the impact of air and water pollution; fisheries.

Activities:

Preservation of individual species: Diagnosis of animal diseases and study of disease prevention.

Legislation: Regulation of animal feed as well as animal by-products.

**MINISTÈRE DE L'AGRICULTURE  
& DE LA REFORME AGRAIRE**  
Direction des Eaux et Forecs  
Division de la Chasse, de la  
Pêche et de la Protection  
de la Nature  
Rabat, Morocco

**Ministry of Agriculture &  
Land Reform**  
Forestry Department  
Division of Hunting,  
Fisheries and Nature  
Protection  
Rabat, Morocco

Established: 1912

Geographic area of responsibility: entire country

Contact: Mr. My Youssef Alaoui

Main interests: Birds, mammals, and plants in forests, coastal areas, deserts and wetlands; botanical gardens, national parks, wildlife preserves and zoos.

Activities:

Education: Provides education to children of all ages, as well as extensive public education (radio and television programs, posters, brochures, guided visits of national parks and reserves).

Preservation of individual species: Hunting of many species of animals and birds is prohibited and nature reserves have been created to further protect a number of other animals.

Other: Research; Establishment of protected areas;  
Legislation; Enforcement.

**MINISTÈRE DE L'AGRICULTURE &  
& DE LA REFORME AGRAIRE**  
Direction de l'Elevage  
Division de la Production  
Animale  
Rabat, Morocco

**Ministry of Agriculture  
& Land Reform**  
Livestock Department  
Division of Animal Production  
Rabat, Morocco

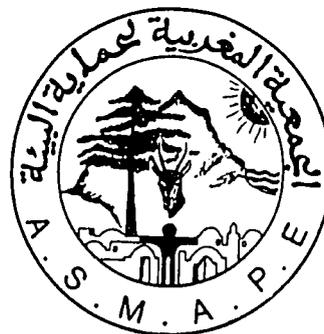
Contact: Abdelouhab Karmouni  
Geographic area of responsibility: entire country

Main interests: Mammals and plants in deserts and wetlands.  
Concerned with agriculture and rangelands.

Activities:  
Preservation of individual species; Legislation;  
Enforcement.

## Non-Governmental Organizations

**ASSOCIATION MAROCAINE POUR LA  
PROTECTION DE L'ENVIRONNEMENT**  
[Moroccan Association for  
Environmental Protection]  
B.P. 6331  
Rabat, Morocco



Vice President: Dr. Brahim Haddane  
Established: 1986  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, deserts, coastal areas, and wetlands; natural resources; botanical gardens, national parks, wildlife preserves and zoos. Concerned with the impact of air, water, soil and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial and urban development.

Activities:

Education: Provides education to children of all ages, as well as extensive public education (Forest day, International Environment Day, etc.)

Research: Sponsors field work undertaken by students from different colleges.

Establishment of protected areas: Collaborates with governmental agencies.

Legislation: Interested in laws relating to the protection and preservation of the environment.

Enforcement: Publicizes the purpose and importance of environmental legislation.

## Universities/Research Institutions

### CENTRE NATIONAL DE RECHERCHES EN HYDROBIOLOGIE ET PISCICULTURE

[National Research Center for  
Hydrobiology and Fisheries]

B.P. 11  
Azrou, Morocco

Director: Mostafa Mouslih

Established: 1925 (Fisheries)

1982 (National Research Center for  
Hydrobiology and Fisheries)

Geographic area of responsibility: entire country

Main interests: The impact of water pollution on fisheries.

#### Activities:

Research: Hydrobiology, fisheries.

Other: Preservation of individual species.

### ÉCOLE NATIONALE D'AGRICULTURE DE MEKNES

[Meknes National Agricultural  
School]

B.P. S/40  
Meknes, Morocco

Director: Mr. Driouchi

Established: 1945

Geographic area of responsibility: entire country

Main interests: Birds, mammals, and plants in forests and deserts; botanical gardens, wildlife preserves; farm. Concerned with the impact of water pollution and chemical waste, as well as environmental threats posed by industrial development; agriculture.

#### Activities:

Education: University level; provides public information.

Research: Agronomy; planning and management of natural resources.

**INSTITUT AGRONOMIQUE ET  
VETERINAIRE HASSAN II**  
Departement de Pharmacie,  
Pharmacologie, Toxicologie  
et Biochimie  
B.P. 6202  
Rabat, Morocco

**Hassan II Institute of  
Agriculture & Veterinary  
Medicine**  
Department of Pharmacy,  
Pharmacology, Toxicology &  
Biochemistry

Contact: Dr. M. Kessabi  
Established: 1986  
Geographic area of responsibility:  
entire country

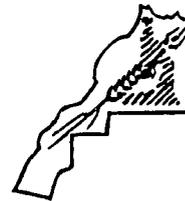
Main interests: Mammals and marine life in coastal and marine areas. Concerned with the impact of water and noise pollution, chemical waste.

Activities:

Research: Chemical contamination of animal products, water pollution.

Legislation: Interested in legislation related to pesticides and heavy metal residues.

**INSTITUT NATIONAL DE LA  
RECHERCHE AGRONOMIQUE (INRA)**  
[National Institute for  
Agricultural Research]  
B.P. 415  
Rabat, Morocco



Established: 1920  
Geographic area of responsibility:  
entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, deserts, forests, and wetlands; botanical garden, national parks, zoos. Concerned with agriculture.

Activities:

Education: Provides public information; library.

Research: Plant breeding; agronomy; soil science; phytopathology.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

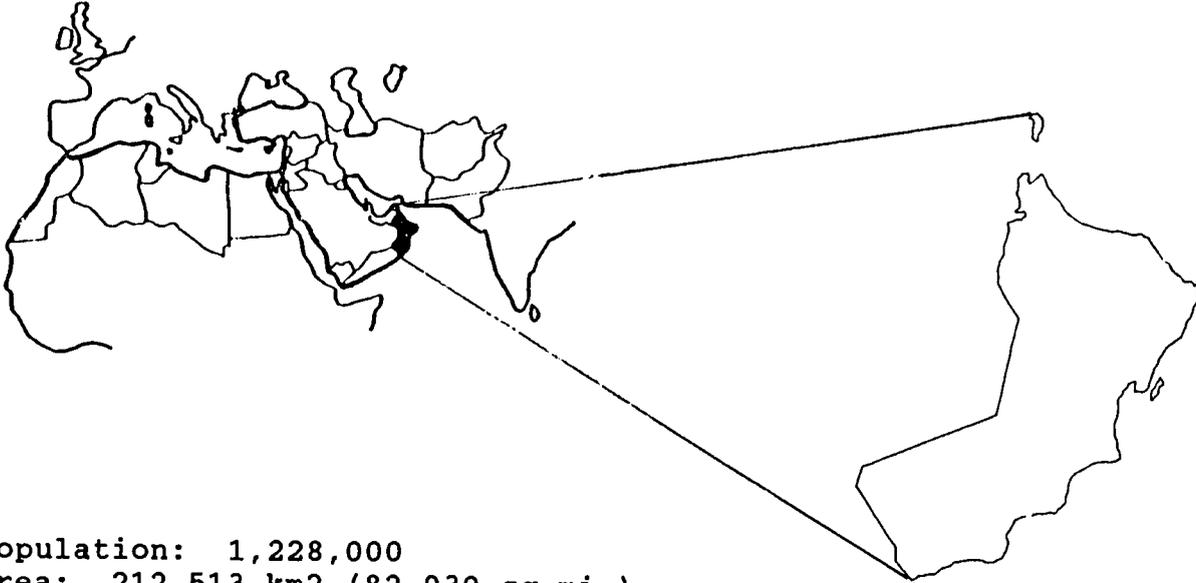
Commission Nationale Marocaine pour l'Education,  
la Science et la Culture  
[Moroccan National Commission for Education,  
Science and Culture]  
B.P. 420  
Rabat, Morocco

University Institute for Scientific Research  
Ave. Ma El-Ainain  
B.P. 447  
Rabat, Morocco

University of Mohammed V  
Faculty of Science  
B.P. 554  
3, rue Michlifen  
Agdal, Rabat, Morocco

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# OMAN



Population: 1,228,000  
Area: 212,513 km<sup>2</sup> (82,030 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

Nature reserves: Aylouni Camp Reserve  
Al Qarum Natural Reserve  
Alwa'l Al Araby Reserve (Arabian Oryx Reserve)

## Governmental Organizations

### **COUNCIL FOR CONSERVATION OF ENVIRONMENT AND WATER RESOURCES (CCEWR)**

PO Box 5310  
Ruwi, Sultanate of Oman

Acting Director for Environmental Research:  
Mr. Ahmed Bin Ali Al-Sheryani

Established: 1979

Geographic area of responsibility: entire country

#### Activities:

Research: Identification and prevention of environmental pollution.

Preservation of individual species: Planned for the future.

Legislation: Issues environmental laws, regulations and standards.

**MINISTRY OF AGRICULTURE AND FISHERIES**

Marine Science and Fisheries Centre  
General Directorate of Fisheries  
Box 467  
Muscat, Sultanate of Oman

Director: Mr. Mohamed Bin Amour Al Barwani  
Established: 1986  
Geographic area of responsibility: entire country

Main interests: Mammals and marine life; aquarium. Concerned with fisheries.

Activities:

Research: Identifying and studying major commercial pelagic and demersal resources; intensive scientific analysis of the structure and dynamics of the stock; assessing maximum fishing that can be done without damaging the standing stock; studying water movement in the sea, especially the upwelling in the Arabian Sea area; proper utilization, management and protection of rare and endangered species such as turtles, whales, corals, etc.

Establishment of protected areas: Certain areas at Masirah and Ras al Hadd have been declared protected since they are important nesting sites for Green and Loggerhead turtles.

Protection of individual species: All species of endangered turtles and cetaceans are protected by law. Lobster catching is strictly regulated.

**MINISTRY OF ENVIRONMENT AND WATER RESOURCES**

PO Box 323  
Muscat, Sultanate of Oman

Under Secretary, Environmental Affairs:  
H.E. Liwaa Bakhit Bin Said Al Shanfari  
Established: 1984  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal areas, deserts, forests and wetlands; aquarium, botanical garden, national parks, wildlife preserves and zoos. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

Activities:

Education; Research; Establishment of protected areas; Preservation of individual species; Legislation.

**THE NATURAL HISTORY MUSEUM**  
Ministry of National Heritage & Culture  
PO Box 668  
Muscat, Oman

Contact: Michael D. Gallagher  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, reptiles, amphibians, insects of Oman and its seas.

Activities:

Education: Extensive museum open to the public.

## Universities/Research Institutions

**SULTAN QABOOS UNIVERSITY**  
Department of Biology  
PO Box 32486  
Al Khodh, Sultanate of Oman

Head: M.J. Delany  
Established: 1986  
Geographic area of responsibility: entire country

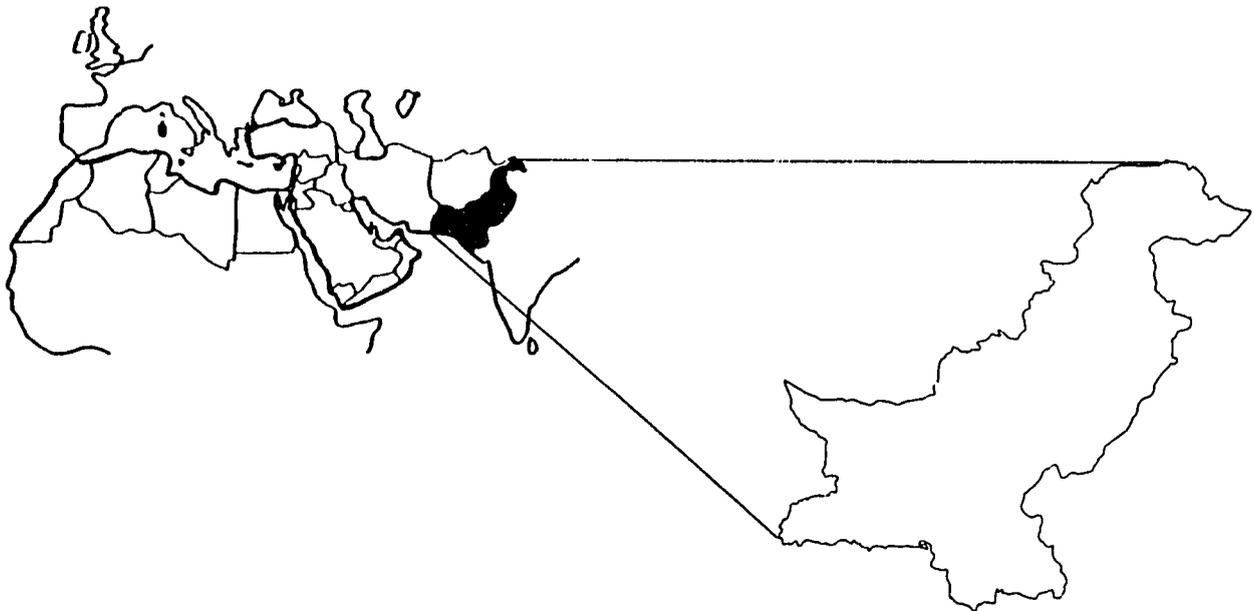
Main interests: Birds, mammals, and marine life in coastal areas and deserts. Concerned with environmental threats posed by oil and gas development.

Activities:

Education: University level.

Research: Marine and desert ecology.

# PAKISTAN



Population: 99,199,000  
Area: 804,153 km<sup>2</sup> (310,403 sq.mi.)  
Language: Urdu (English)  
Convention signator: CITES  
Ramsar Convention  
World Heritage

National Parks: Lal Suhanra National Park  
Sind National Park  
Khunjerab National Park  
Swat National Park

## Nature Reserves:

Punjab Province: Rakh Mirjal  
Gulf Manda  
Islamabad  
Bajwat  
Chaupalia  
Bakh Gharibwal  
Chak No. 178/J.B.  
Chak Dauluana  
Kamalia

Bhiot  
Cholistan  
Chak Kator  
Abasia  
Kheri Murat  
Sodhi  
Attari

Sind Province: Hala  
Sahib Samo  
Deh Khalifa  
Deh Jangisar  
Mirpur Sakro

Tando Mitha Khan  
Pai Forest  
Takkur Area  
Kalri Lake  
Hudero Lake

Sind Province: Ranikot-Sumak Lung Lake  
 (continued) Mandodero Drigh Lake  
 Dosu Forests Mañal Kohistan  
 Khipro Forest Hab Dam  
 Nara Haleji Lake

Northwest  
Frontier Province: Agram Basti Sheikh Buddin  
 Darosh Gol Bilyamin  
 Gahriat Gol Giddar Baik  
 Purit-Chinar Gol Manglot  
 Yakhdarra Borraka  
 Daggar Chitral Gol  
 Totlai Manshi  
 Sheikh Buddin

Baluchistan: Hazar-Ganji Shaslon  
 Maslakh Chorani  
 Surkhab Raghai Rakshan  
 Sashamaha Koh-e-Gish  
 Ziarat Juniper Khurkhore  
 Chiltan Dureji  
 Kachau Kolwa Kap  
 Dhrun Buz Makola

Northern Areas: Astore Kargah  
 Baltistan Nalter

## Governmental Organizations

**DEPARTMENT OF FISHERIES -- PUNJAB**  
 2 Sanda Road  
 Lahore, Pakistan

Director: Dr. Muhammad Yaqub Javaid  
 Established: 1912  
 Geographic area of responsibility: Province of Punjab

Main interests: Fish in inland waters and wetlands; fish farms;  
 natural waters.

### Activities:

Education: Training to in-service employees  
Research: Limnology and aquatic ecology of important  
 lakes/reservoirs in the Punjab; studies on the occurrence of fish  
 diseases and their prevention; growth rate of different fish  
 species; effect of insecticides on fish life.

## **ENVIRONMENT DIRECTORATE**

Capital Development Authority  
Sitara Market  
Markaz G/7  
Islamabad, Pakistan

Director: Mr. Mohammad Rafiq Khattak

Established: 1960

Geographic area of responsibility: Islamabad Capital Territory

Main interests: Birds, mammals, and plants in forests; national parks, wildlife preserves, zoos. Concerned with environmental threats posed by industrial and urban development; agriculture.

### Activities:

Research: Primarily a development agency. Research on reintroduction of endangered Cheer Pheasant in Islamabad and introduction and development of indigenous animals.

Establishment of protected areas: Islamabad Wildlife Reserve; Islamabad Game Sanctuary; Margallah Hills National Park.

Legislation: Preservation of Landscape Ordinance 1966; Islamabad Wildlife Ordinance 1979.

## **MARINE FISHERIES DEPARTMENT**

Fish Harbour, West Wharf  
Karachi, Pakistan

Director General: Commodore Razi Ahmed

Established: 1951

Geographic area of responsibility: Jurisdiction beyond territorial waters, i.e. 12 miles to E.E.Z. (exclusive economic zone)

Main interests: Marine life. Concerned with the impact of water pollution and chemical waste; fisheries.

### Activities:

Research: Fish surveys; biological research; aquaculture.

Legislation: Under active consideration by the Department.

## **NATIONAL COMMITTEE ON UNESCO'S MAN AND THE BIOSPHERE PROGRAM**

c/o Department of Geography  
University of Peshawar  
Peshawar, Pakistan

Secretary: Mohammed Aslam Khan

Established: 1972

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal areas, deserts, forests, and wetlands. Concerned with the impact of air, water and noise pollution, chemical and solid

waste, as well as environmental threats posed by industrial and urban development.

Activities:

Education: Provides information to the public; training courses for government decision-makers and planners.

Research: Man-environment relationship in various ecosystems.

Other: Establishment of protected areas.

**NATIONAL COUNCIL FOR CONSERVATION OF WILDLIFE**

House No. 485, Street 84

Sector G-6/4

Islamabad, Pakistan



Conservator: Mr. Abdul Latif Rao

Established: 1974

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life, plants, reptiles, amphibians, insects, and other invertebrates in forests, wetlands, coastal and marine areas and deserts; botanical garden, national parks, wildlife preserves, zoos, captive breeding facilities. Concerned with the impact of air, water, soil and noise pollution, as well as environmental threats posed by industrial and urban development, mining, and land use changes; agriculture.

Activities:

Education: Provides public information and teacher training.

Research: Survey of endangered species.

Establishment of protected areas: Interested in national parks, wildlife sanctuaries and game reserves.

Preservation of individual species: Import/export regulation; conservation plans.

Legislation: Provides advice and models.

Enforcement: CITES management authority.

**NATIONAL HERBARIUM (P.A.R.C.)**

Pakistan Agricultural Research Council

House No. 28, St. 56, F-7/4

Islamabad, Pakistan

Contact: Dr. Yasin J. Nasir

Established: 1974

Geographic area of responsibility: entire country

Main interests: Plants; national parks, wildlife preserves. Concerned with the impact of air pollution and chemical waste, as well as environmental threats posed by urban development.

**Activities:**

**Research:** Conservation of rare and endangered plant species; preparing a book on the flora of Pakistan.

**NATIONAL INSTITUTE OF OCEANOGRAPHY**

37-K, Block 6  
P.E.C.H.S.  
Karachi, Pakistan



Director: Dr. G.S. Quraishiee  
Established: 1981  
Geographic area of responsibility:  
Coastal region, Indus Deltaic  
Region and E.E.Z. of Pakistan.

**Main interests:** Marine life in coastal and marine areas. Concerned with the impact of air and water pollution and chemical waste; fisheries.

**Activities:**

**Education:** Provides seminars, workshops and symposia for scientists and technicians.

**Research:** Interdisciplinary research in physical, chemical, biological and geological oceanography in maritime zones.

**Establishment of protected areas:** Indus Estuary, Lagoons (Miani Hor), Bays such as Gwadar, Pasni.

**Preservation of individual species:** Blind Dolphin, Pulla, Green Turtles, Mangroves.

**Legislation:** Government ordinance on pollution.

**NORTHWEST FRONTIER PROVINCE FOREST DEPARTMENT**

Shami Road  
Peshawar, Pakistan

Contact: Ardur Rehman Khan, Chief Conservator  
of Forests  
Syed Iqmail Hussain Shah, Wildlife Conservator

Established: 1970

Geographic area of responsibility: Northwest Frontier Province

**Main interests:** Birds, mammals and plants in forests, deserts and wetlands; national parks, wildlife preserves, zoos; fisheries.

**Activities:**

**Education:** Provides public information.

**Other:** Establishment of protected areas; Preservation of individual species; Legislation; Enforcement.

Department responsible for Forestry; Range, Watershed and Wildlife Management; Fisheries and Sericulture.

**PAKISTAN FOREST INSTITUTE**  
Peshawar, Pakistan

Director General: M.I. Sheikh  
Wildlife Management Specialist:  
Ashiq Ahmad Khan  
Established: 1947  
Geographic area of responsibility: entire country



Main interests: Birds, mammals, reptiles (crocodiles) in wetlands; national parks, wildlife preserves. Concerned with the impact of water pollution; agriculture.

Activities:

Education: University level  
Research: Seeking solution to field problems in forests, watershed management, range management, wildlife management, forest protection, medicinal plants, forest products.

**PAKISTAN MUSEUM OF NATURAL HISTORY**  
(Pakistan Science Foundation)  
Al-Markaz F-7  
Islamabad, Pakistan

Director General: Dr. S. Taseer Hussain  
Established: 1976  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life, plants, fossils, minerals in forests, deserts, wetlands, coastal and marine areas; aquarium, herbarium, insectarium, planetarium. Concerned with agriculture and fisheries.

Activities:

Education: Provides education to children of all ages, as well as to the general public.  
Research: Natural history.

**PAKISTAN SCIENCE FOUNDATION**  
PO Box 11221  
Islamabad, Pakistan

Principal Scientific Officer:  
Dr. Fauziq Iqbal  
Established: 1973  
Geographic area of responsibility: entire country



Main interests: Nature conservation and environmental threats.

Activities:

Education: Provides public information; promotes scientific interest in general.

Research: Physical/natural sciences, including projects related to the environment.

**PUNJAB FOREST DEPARTMENT**  
Silvicultural Research Division  
5 Waris Road  
Lahore, Pakistan

Contact: Mr. Amjad Mahmood Chima,  
Divisional Forest Officer  
Established: 1928  
Geographic area of responsibility: Punjab Province

Main interests: Forest plants; botanical garden. Concerned with the impact of air and noise pollution.

Activities:

Research: Development of local exotic and ornamental species.

**PUNJAB WILDLIFE DEPARTMENT**  
2 Sanda Road  
Lahore, Pakistan

Contact: Aziz Aslam Khan,  
Conservator of Forests,  
(Parks and Wildlife)

Established: 1934  
Geographic area of responsibility: Province of Punjab



Main interests: Birds, mammals and plants in forests, wetlands and deserts; national parks, wildlife preserves, zoos, range-lands. Concerned with the impact of air pollution and poaching on wild animals and birds.

Activities:

Education: Provides education to children of all ages. Uses pamphlets and brochures, newspaper ads, newspaper articles, TV spots, billboards for public information relating to wildlife.

Research: In the past confined to various aspects of captive breeding of rare and endangered species and to the population estimates of different species of wild ungulates and waterfowl. A new Wildlife Research Centre has been established which will study the present status and population dynamics of wildlife species, wildlife habitat, biology and behavior; wildlife management; diseases.

Establishment of protected areas: A network of protected areas has been established, with extensive Wildlife Sanctuaries and Game Preserves.

Preservation of individual species: Shooting of all mammals (except wild boar) is prohibited in the Province. Extensive wildlife breeding program for reintroduction in the wild (Cheer

Pheasant, Kaleej Pheasant, Crocodile, Gavial); captive breeding program (Blackbuck, Nilgai, Chinkara, Hog Deer). Vigorous efforts are being made to maintain and improve the habitat of important wildlife species in particular and all species in general.

Legislation: Punjab Wildlife Act promulgated in 1974. Subsequent regulations issued.

Enforcement: Large enforcement staff.

#### **SIND WILDLIFE MANAGEMENT BOARD**

PO Box 3722  
Stratchen Road  
Karachi, Pakistan

Contact: Mr. Khan Muhammad Khan,  
Wildlife Conservator

Established: 1972

Geographic area of responsibility: Sind Province



Main interests: Birds, mammals and marine life in forests, deserts, coastal and marine areas and wetlands; national parks, wildlife preserves. Concerned with the impact of air, water and noise pollution, and solid waste, as well as environmental threats posed by industrial and urban development; agriculture.

#### Activities:

Education: Provides education to children of all ages, as well as to the general public.

Research: Tagging reptiles and mammals; ringing birds. Observation of migratory routes of various animals in their natural habitat; sensing of mammals and birds.

Establishment of protected areas: National park, game reserves and wildlife sanctuaries.

Preservation of individual species: Sind Ibex, Wild Sheep, Houbara Bustard, Chinkara, Blackbuck, waterfowls, Peacocks, Crocodiles, Indus Dolphin and marine turtles.

Other: Legislation; Enforcement.

#### **ZOOLOGICAL SURVEY DEPARTMENT**

Block 61  
Pakistan Secretariat  
Shahrah-e-Iraq  
Karachi-1, Pakistan

Director: Mr. Mohammad Farooq Ahmad

Established: 1948

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life, reptiles, amphibians.

**Activities:**

**Research:** Fauna of Pakistan (taxonomy, ecology and biology).

The Department advises the Government of Pakistan on all zoological matters, including the export of wildlife.

**Non-Governmental Organizations**

**WORLD PHEASANT ASSOCIATION**

PO Box 1312  
Lahore, Pakistan



Hon.. Administrator: Dr. Khalid Hamid Sheikh  
Geographic area of responsibility: world

**Main interests:** Gamebirds in forests; national parks, wildlife preserves. Concerned with forest/habitat destruction; agriculture.

**Activities:**

**Education:** Provides education to children of all ages, as well as to the general public.

**Research:** Sponsors research.

**Other:** Establishment of protected areas; Preservation of individual species; Legislation.

**WORLD WILDLIFE FOUNDATION - PAKISTAN**

PO Box 1312  
Lahore, Pakistan



**WWFP**

Director of Development: Zafar A. Chaudhry  
Established: 1970  
Geographic area of responsibility: entire country

**Main interests:** Birds, mammals, marine life and plants in forests, coastal and marine areas, deserts, and wetlands; national parks, wildlife preserves. Concerned with the impact of water pollution and chemical waste, as well as environmental threats posed by urban development.

**Activities:**

**Education:** Provides education to primary and secondary school children.

**Research:** Primarily conducts census of threatened species of birds and mammals.

**Establishment of protected areas:** Makes proposals to the government.

**Preservation of individual species:** Assists in re-introduction of threatened species.

Legislation: Assists in development of conservation legislation.

## Universities/Research Institutions

**N.W.F.P. AGRICULTURE UNIVERSITY**  
Plant Breeding and Genetics Department  
Peshawar, Pakistan

Contact: Prof. Dr. Saeedul Hasan  
Established: 1981  
Geographic area of responsibility: Northwest Frontier Province

Main interests: Plants; agriculture.

Activities:

Research: Variety development and screening; germ plasma collection and preservation.

**UNIVERSITY OF AGRICULTURE**  
Department of Zoology & Fisheries  
Faisalabad, Pakistan

Contact: Dr. Mirza Azhar Beg, Assoc. Professor  
Established: 1963  
Geographic area of responsibility: Indus Plains of the Province of Punjab

Main interests: Birds, mammals and reptiles; wetlands. Concerned with agriculture and fisheries.

Activities:

Education: University level.

Research: Study of birds and mammals of agroecosystem with emphasis on pest species and the study of freshwater fishes.

**UNIVERSITY OF BALUCHISTAN**  
Wildlife Research Laboratory  
Department of Zoology  
Quetta, Pakistan

Contact: Afsar Mian, Assistant Professor  
Established: 1979  
Geographic area of responsibility: Baluchistan

Main interests: Birds, mammals in forests, wetlands and deserts. Concerned with agriculture; hunting and habitat exploitation through grazing/wood cutting.

**Activities:**

**Education:** University level.

**Research:** Ecology of vertebrate pests, Houbara Bustard, game animals and threatened species.

**UNIVERSITY OF KARACHI**

Centre of Excellence in Marine Biology  
Karachi 32, Pakistan



Director: Prof. Nasima M. Tirmizi

Geographic area of responsibility: entire country

**Main interests:** Marine life. Concerned with the impact of water pollution; fisheries.

**Activities:**

**Education:** University level

**Research:** Faunastic, larval development and mangrovology.

**UNIVERSITY OF KARACHI**

Department of Zoology  
Karachi 32, Pakistan

Chairman: Dr. S. Imtiaz Ahmad

Established: 1952

Geographic area of responsibility: entire country

**Main interests:** Birds, mammals, marine life in forests, wetlands, deserts, coastal and marine areas; wildlife preserves. Concerned with the impact of air and water pollution, chemical and solid waste, as well as environmental threats posed by industrial development; agriculture, fisheries.

**Activities:**

**Research:** Wildlife, fisheries, pollution, bioecology.

**Other:** Education

**VERTEBRATE PEST CONTROL LABORATORY**

Pakistan Agriculture Research Council  
PO Box 8401  
Karachi University Campus  
Karachi 32, Pakistan



Project Director: Mian Mohammed Shafi

Established: 1971

Geographic area of responsibility: entire country

**Main interests:** Birds and mammals; vertebrate pest management; agriculture.

Activities:

Education: Provides public information.

Research: Management of vertebrate pests in different ecosystems.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Agricultural Research Council  
Sector G--5  
Islamabad, Pakistan

Agricultural Research Institute  
Tandojam  
Hyderabad, Pakistan

Faisalabad Agriculture University  
Plant Breeding and Genetics Dept.  
Faisalabad, Pakistan

Ministry of Environmental & Urban Affairs  
Islamabad, Pakistan

Quaid-i-Azam University  
Department of Biological Sciences  
Islamabad, Pakistan

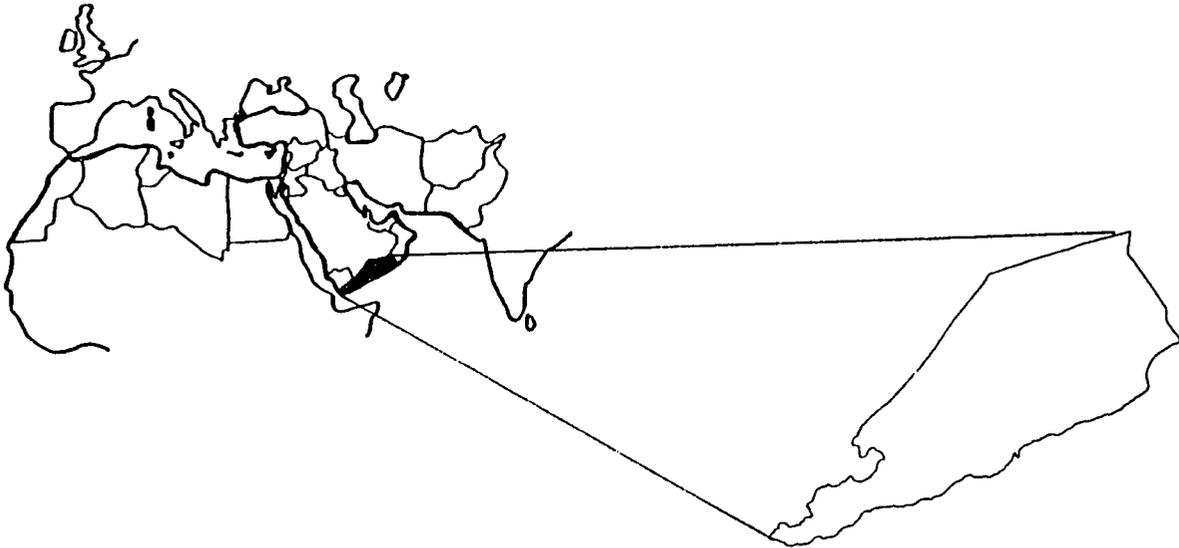
University of Karachi Herbarium  
Department of Botany  
Karachi, Pakistan

Veterinary Research Institute  
Charsadda Road  
PO Box 377  
Peshawar, Pakistan

Zoological Society of Pakistan  
c/o Department of Zoology  
Agriculture University  
Tandojam, Pakistan

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN



Population: 2,209,000  
Area: 333,054 km<sup>2</sup> (128,559 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

## AGENCIES AND ORGANIZATIONS\*

Department of Agriculture  
Plant Protection Section  
PO Box 1161  
Aden, People's Democratic Republic of Yemen

Department of Fisheries  
PO Box 1161  
Aden, People's Democratic Republic of Yemen

(continued)

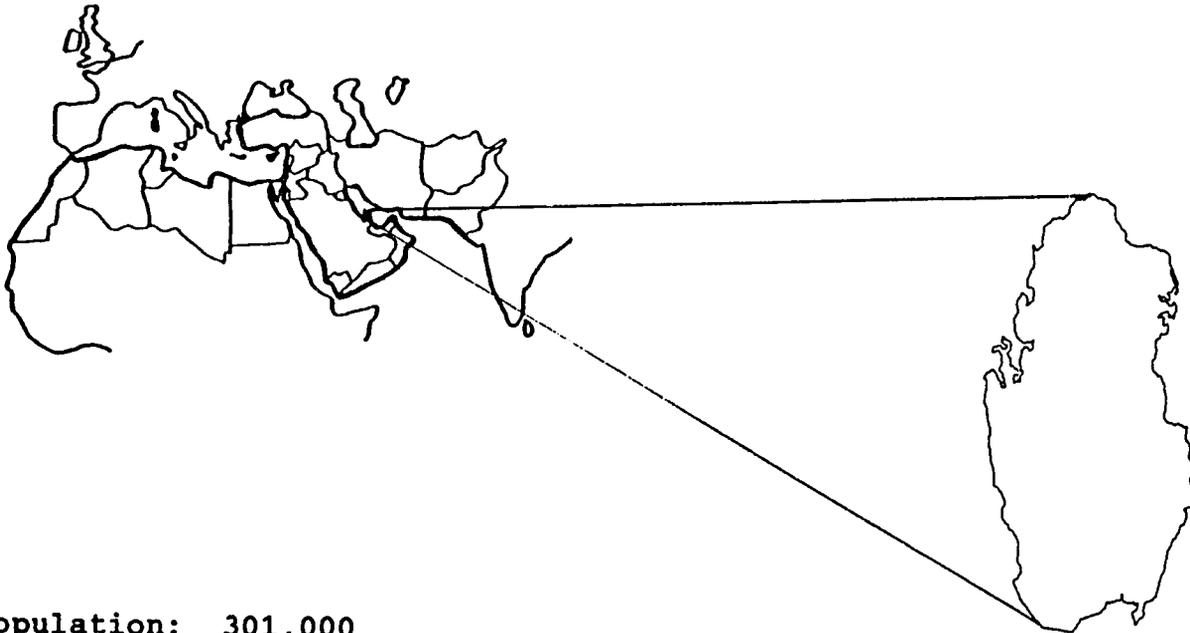
\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

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**Ministry of Agriculture & Agrarian  
Reform  
Aden, People's Democratic Republic of Yemen**

**National Environment Council  
Aden, People's Democratic Republic of Yemen**

# QATAR



Population: 301,000  
Area: 11,003 km<sup>2</sup> (4,247 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

Wildlife farms (belonging to the ruling family and to the government):

Al Shahaniat Farm	Al Wikrat Farm
Al Slymee Farm.	Al Ma'yais Farm

## Governmental Organizations

**MINISTRY OF INDUSTRY & AGRICULTURE**  
**Department of Fisheries**  
PO Box 8703  
Doha, Qatar

Director of Fisheries: Mr. Naeem A. Al-Baker  
Established: 1978  
Geographic area of responsibility: entire country

Main interests: Marine life. Concerned about the impact of water pollution; fisheries.

Activities:  
Research: Fisheries administration and development of fisheries in Qatar.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Doha Zoo  
Doha, Qatar

Ministry of Agriculture & Industry  
PO Box 1966  
Doha, Qatar

Ministry of Electricity & Water  
PO Box 41  
Doha, Qatar

Ministry of Public Health  
PO Box 42  
Doha, Qatar

National Museum Aquarium  
PO Box 3475  
Doha, Qatar

Qatar Natural History Museum  
PO Box 3475  
Doha, Qatar

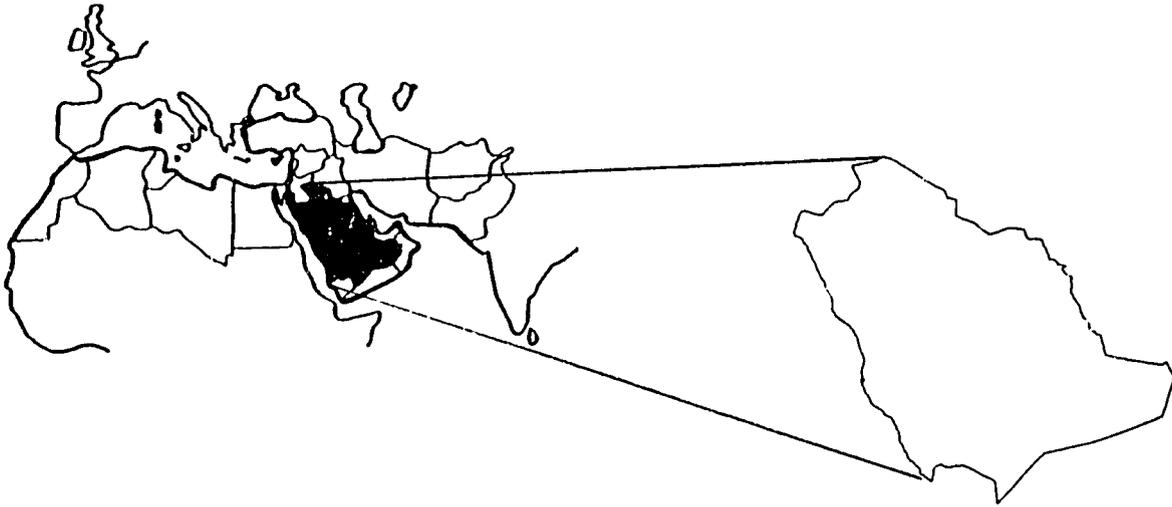
University of Qatar  
Marine Sciences Department  
PO Box 2713  
Doha, Qatar

University of Qatar  
Scientific and Applied Research Centre  
PO Box 2713  
Doha, Qatar

University of Qatar  
Zoology Department  
PO Box 2713  
Doha, Qatar

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# SAUDI ARABIA



Population: 11,152,000  
Area: 2,176,155 km<sup>2</sup> (839,996 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

National Parks: Asser National Park  
Chebiani Park  
Kharees Park  
Al Bouzum Park  
Raghdan Park  
Al Sakran Park

## Governmental Organizations

**FISHERIES RESEARCH & DEVELOPMENT CENTRE**  
PO Box 2580  
Jeddah 21461, Saudi Arabia



Director: Fouad Abdullah Daghistani  
Geographic area of responsibility: entire country

Main interests: Marine life; aquarium. Concerned with the impact of water pollution; fisheries.

### Activities:

Research: Stock assessment of important marine fishes;

estimation of fish production; socio-economic studies of fish population; feeding habits and growth studies of selected fish species.

Legislation: Advises Ministry of Agriculture & Water on fishery conservation measures.

Enforcement: Regulates fishing licenses under guidance of Ministry of Agriculture & Water.

**SAUDI NATIONAL COMMISSION FOR  
WILDLIFE CONSERVATION AND  
DEVELOPMENT -- NCWCD**

PO Box 61681  
Riyadh 11575, Saudi Arabia

Managing Director:

H.R.H. Prince Saud Al-Faisal

Secretary General: Prof. Dr. A.H. Abu Zinada

Established: 1986

Geographic area of responsibility: entire country



Main interests: Birds, mammals, marine life and plants in forests, coastal and marine areas, deserts, wetlands; botanical gardens, national parks, wildlife preserves. Concerned with the impact of air and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial and urban development.

Activities:

Education: Provides public information

Research: Animal and plant breeding for reintroduction.

Establishment of protected areas: System plan underway.

Three national protectorates have been declared.

Preservation of individual species: Houbara Bustard, Oryx, and different species of gazelles.

## Non-Governmental Organizations

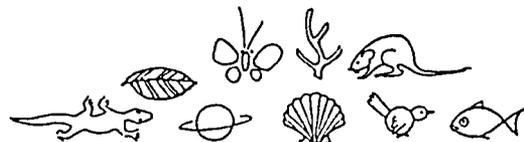
**ARABIAN NATURAL HISTORY ASSOCIATION**

(ARAMCO)

Box 1418

Dhahra 31311, Saudi Arabia

President: Rupert Christopher



Main interests: Birds, mammals, marine life and plants in coastal and marine areas, deserts, and wetlands. Concerned with the impact of air and water pollution, as well as environmental threats posed by oil and gas development.

Activities:

Education: Provides public information; organizes programs and field trips.

**SAUDI BIOLOGICAL SOCIETY**

c/o Botany Department  
Science College  
King Saud University  
PO Box 2455  
Riyadh 11451, Saudi Arabia



President of the Board: Prof. A.H. Abu-Zinada

Established: 1977

Geographic area of responsibility: Arabian Peninsula and Middle East

Main interests: Birds, mammals, marine life and plants in forests, coastal and marine areas, and deserts; aquarium, botanical garden, national parks, wildlife preserves, and zoos. Concerned with the impact of air and water pollution.

Activities:

Education: University level; conducts biology workshops.

Research: Biological studies. Publishes books on biology and desertification of the Arabian Peninsula.

## Universities/Research Institutions

**KING ABDULAZIZ UNIVERSITY**

Faculty of Meteorology, Environment and  
Arid Land Agriculture  
PO Box 9034  
Jeddah, Saudi Arabia

Dean: Dr. Omar Ali Sabbak

Established: 1975

Geographic area of responsibility: Jeddah Region

Main interests: Plants in forests; botanical garden. Concerned with the impact of air, noise and water pollution; agriculture.

Activities:

Education: University level.

Research: Agriculture; hydrology; environment; and meteorology.

**KING FAHD UNIVERSITY OF PETROLEUM  
AND MINERALS**

Dhahran 31261, Saudi Arabia

Contact: Dr. Mustafa Ukayli,  
Manager, Water Resources  
and Environment Division

Established: 1976

Geographic area of responsibility: Eastern province

Main interests: Marine life and plants in marine areas and deserts; wildlife preserves. Concerned with the impact of air and water pollution, chemical and solid waste, as well as environmental threats posed by industrial, oil and gas development.

Activities:

Research: Related to air and water pollution, hazardous waste, and water resources.

**RANGE AND ANIMAL DEVELOPMENT RESEARCH CENTRE**

PO Box 322

Sakaka, Al Jouf, Saudi Arabia

Officer in Charge, Range Ecologist: H.H. Heemstra

Established: 1981; operated by FAO

Geographic area of responsibility: Northern Saudi Arabia

Main interests: Plants in deserts; range lands. Concerned with over-grazing and environmental threats posed by urban development.

Activities:

Research: Development and improvement of local breeds of Camels, Sheep and Goats; overall development of rangelands and range management practices; study of livestock diseases; socio-economic studies.

Establishment of protected areas: Field stations for range research, enclosures to study vegetation recovery when protected from grazing.



## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

King Faisal University  
College of Veterinary Medicine  
& Animal Resources  
Hofuf, Saudi Arabia

King Saud University  
Faculty of Science  
Zoology Department  
Riyadh, Saudi Arabia

Meteorological & Environmental  
Protection Administration  
PO Box 1358  
Jeddah, Saudi Arabia

Ministry of Agriculture & Water  
Riyadh, Saudi Arabia

Ministry of Agriculture & Water  
Plant Protection Division  
Riyadh, Saudi Arabia

Ministry of the Interior  
Airport Road  
Riyadh, 11134, Saudi Arabia

Riyadh University  
Faculty of Science  
Department of Botany  
Riyadh, Saudi Arabia

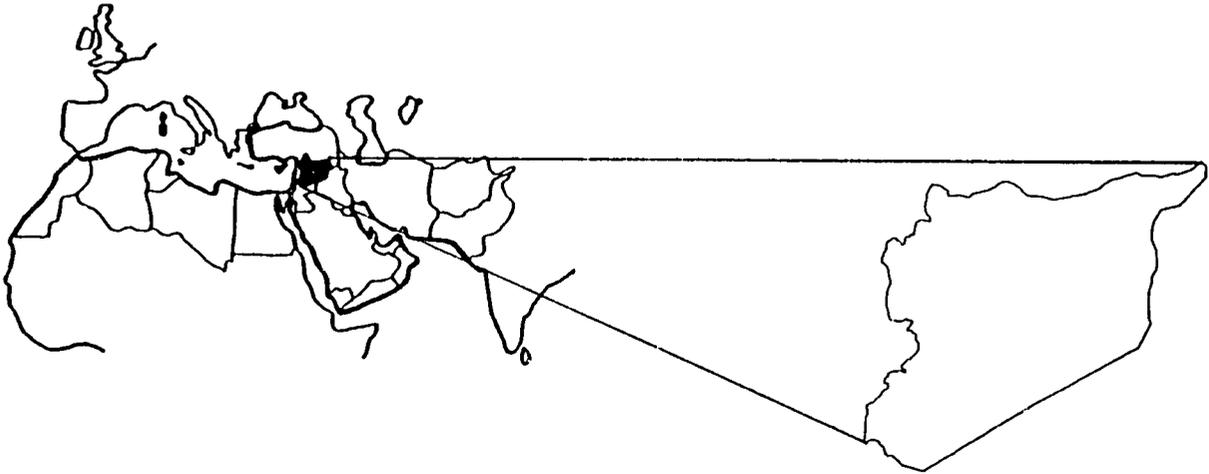
Riyadh University  
Faculty of Science  
Department of Zoology  
Riyadh, Saudi Arabia

Riyadh Zoo  
Riyadh, Saudi Arabia

Saudi Arabian Natural History  
Society  
PO Box 5127  
Jeddah, Saudi Arabia

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# SYRIA



Population: 10,535,000  
Area: 185,228 km<sup>2</sup> (71,498 sq.mi.)  
Language: Arabic  
Convention signator: World Heritage

## Governmental Organizations

**THE ARAB CENTER FOR THE STUDY OF  
ARID ZONES AND DRY LANDS (ACSAD)**  
PO Box 2440  
Damascus, Syria



Director General: Dr. Mohamed El-Khash  
Established: 1971 (autonomous intergovernmental organization)  
Geographic area of responsibility: 22 Arab countries

Main interests: Plants and natural vegetation in forests and deserts; national parks. Concerned with the impact of urban development.

### Activities:

Education: Offers seminars, workshops, conferences and training courses.

Research: Water resources; water quality; soils; animal resources. Promotes integrated approach to the study of scientific, technological and human factors involved in developing agriculture in Arab countries where aridity is the

main constraint. Studies useful plants for arid zones in Arab countries.

Establishment of protected areas: Works with participating countries to establish national parks and nature reserves, such as the National Kouf Park in Libya.

Legislation: Helps Ministries of Agriculture in the Arab countries compile rules and regulations aimed at protecting natural resources and particularly natural vegetation.

Enforcement: Involved in a pilot project in cooperation with Ministries of Agriculture in the Arab countries.

#### **NATIONAL COMMITTEE FOR MAN AND BIOSPHERE**

Ministry of State for Environmental Affairs

Prime Ministry

PO Box 3754

Damascus, Syria

Chairman: Dr. Adel Hamwi

Established: 1972

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, coastal areas and deserts; botanical gardens, national parks, wildlife preserves and zoos. Concerned with the impact of air, water and noise pollution, chemical and solid waste.

#### Activities:

Education: Provides public information.

Other: Research; Establishment of protected areas; Preservation of individual species; Legislation.

### Non-Governmental Organizations

#### **ARAB AGRONOMISTS UNION**

PO Box 3800

Damascus, Syria

Secretary General: Dr. Yahia Bakour

Established: 1968

Main interests: Plants in forests, coastal areas, wetlands and deserts; wildlife preserves. Concerned with the impact of water pollution, as well as environmental threats posed by urban development; agriculture, fisheries.

#### Activities:

Education: Provides public information

Research: Conservation of agricultural land; range development.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Damascus University  
Faculty of Agriculture  
Plant Protection Department  
Damascus, Syria

Damascus University  
Faculty of Science  
Zoology Department  
Damascus, Syria

International Center for Agricultural  
Research and Dry Areas (ICARDA)  
PO Box 5466  
Aleppo, Syria

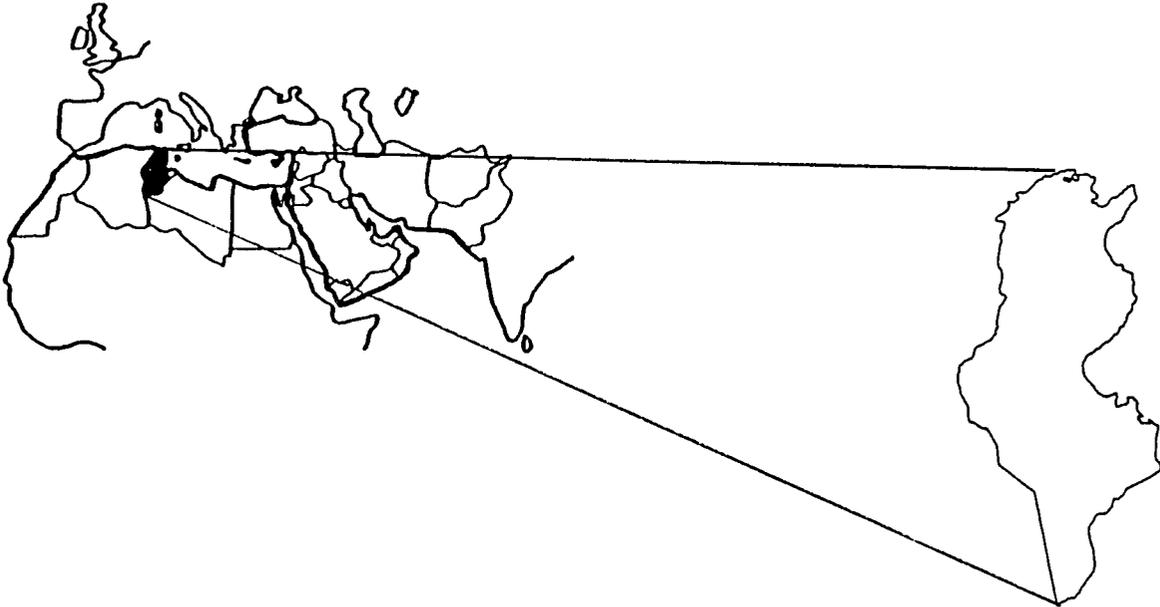
Marine Research Centre  
c/o Supreme Council of Science  
PO Box 4762  
Damascus, Syria

Ministry of Agriculture & Agrarian  
Reform  
Directorate of Forests and Fisheries  
Latakia, Syria

Ministry of Agriculture & Agrarian  
Reform  
Plant Protection Section  
Damascus, Syria

Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# TUNISIA



Population: 7,259,000  
Area: 163,653 km<sup>2</sup> (63,170 sq.mi.)  
Languages: Arabic (French)  
Convention signator: CITES  
Ramsar Convention  
World Heritage

National Parks: Ichkuel National Park  
Chambis National Park  
Bou-Hedma National Park  
Zambra and Zambretta Park

Nature Reserves: Jelta Sea Reserve

## Governmental Organizations

**INSTITUT PASTEUR DE TUNIS**  
[Pasteur Institute of Tunis]  
13, place Pasteur  
B.P. 74  
1002 Tunis-Belvedere, Tunisia

Director: Prof. Amor Chadli  
Established: 1977  
Geographic area of responsibility: entire country

Main interests: Marine life. Concerned with the impact of water pollution; fisheries.

Activities:

Education: Provides information to the general public.

Research: Bacterial pollution of inland water bodies of Tunisia.

**MINISTÈRE DE L'AGRICULTURE**  
Direction des Forêts  
30, rue Alain Savary  
Tunis, Tunisia

**Ministry of Agriculture**  
Forestry Department

Director: T. Jalel

Geographic area of responsibility: entire country

Main interests: Birds, mammals, and plants in forests and wetlands; national parks and wildlife preserves.

Activities:

Establishment of protected areas: Four National Parks have been created.

Preservation of individual species: A number of species are currently protected.

Legislation: Forestry rules and regulations.

**MINISTÈRE DE L'AGRICULTURE**  
Sous Direction de l'Environnement  
Agricole  
30, rue Alain Savary  
Tunis, Tunisia

**Ministry of Agriculture**  
Department of Agricultural  
Environment

Deputy Director: Mme. Hedia Baccar

Established: 1977

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, coastal and marine areas, deserts, and wetlands; national parks and wildlife preserves. Concerned with the impact of water pollution as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

Activities:

Establishment of protected areas; preservation of individual species; legislation; enforcement.

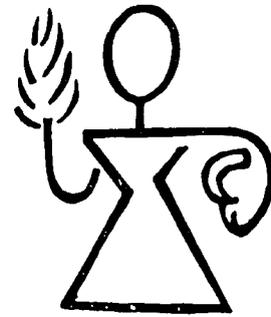
## Universities/Research Institutions

**INSTITUT NATIONAL DE LA RECHERCHE  
AGRONOMIQUE DE TUNISIE  
[Tunisian National Institute  
for Agricultural Research]**

Avenue de l'Independance  
2049 Ariana, Tunisia

Contact: Mme. Kaabia Aida, in charge of documentation.

Geographic area of responsibility: entire country



Main interests: Plants; botanical gardens, agriculture

Activities:

Research: To improve agricultural production with high-yield varieties.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Centre de Recherche sur les Problèmes de  
la Zone Aride  
[Center for Desert Research]  
11 avenue du Sahel  
Tunis, Tunisia

Institut National de Recherche Forestière de  
Tunisie  
[Tunisian National Institute for Forestry  
Research]  
B.P. 2  
Ariana 2080, Tunisia

Institut National Scientifique et Technique  
d'Océanographie et de Pêche  
[Salambo Oceanographic Station]  
Salambo, Tunisia

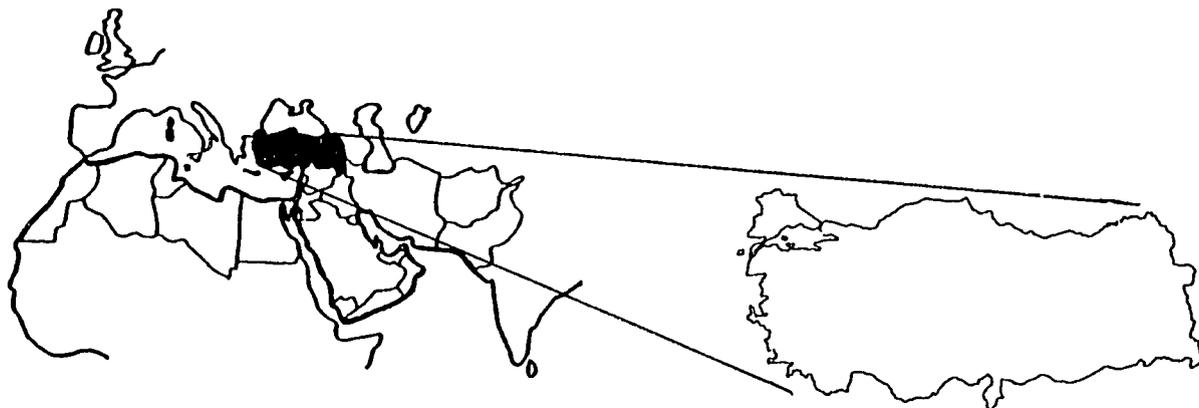
University of Tunis  
Agronomy Faculty  
Botany and Phytopathology Department  
43 avenue Charles Nicolle  
Tunis, Tunisia

University of Tunis  
Agronomy Faculty  
Zoology and Entomology Department  
43 avenue Charles Nicolle  
Tunis, Tunisia

University of Tunis  
Faculty of Sciences  
Marine Biology Department  
Tunis, Tunisia

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# TURKEY



Population: 50,661,000  
Area: 780,780 km<sup>2</sup> (301,381 sq.mi.)  
Language: Turkish  
Convention signator: World Heritage

National Parks:

- Yozgat Çamlığı
- Karatepe - Aslantaş
- Soğuksu
- Kuşçenneti
- Uludağ
- Yedigöller
- Dilek Peninsula
- Spildağ
- Kızıladağ
- Termessos
- Lake Kovada
- Munzur Valley
- Olympos - Beydağları
- Gelibolu Peninsula Historical Park  
(Galipoli)
- Köprülü Canyon
- Mount Ilgaz

## Governmental Organizations

### **GENERAL DIRECTORATE OF FORESTRY**

National Parks Department

Orman Genel Müdürlüğü Gazi-Tesisleri 11 No.lu Bina  
Ankara, Turkey

Head of National Parks Department: Enver Palaşoğlu

Established: 1958

Geographic area of responsibility: entire country

Main interests: Birds, mammals, and plants in forests, wetlands; national parks and wildlife preserves. Concerned with environmental threats to fish in lakes and streams within the forestry system.

#### Activities:

Education: Provides on-the-job training and seminars.

Research: Conducts plant and animal species inventories in designated national parks, nature protection areas, wildlife preserves and conducts research related to master plan preparation.

Establishment of protected areas: Extensive National Parks, nature protection areas, hunting preserves and introduction areas. There are plans for expanding the number and size of the protected areas.

Preservation of individual species: Only responsible for preservation of individual species of fauna. Some species are totally protected, while hunting of other species is limited to specific seasons.

Enforcement: Regional forestry headquarters, regional directorates, local forestry superintendants, National Park directors implement laws.

### **REGIONAL PLANT PROTECTION RESEARCH INSTITUTE**

Fatih Cad. 37

Kalaba, Ankara, Turkey

Director: A. Ulvi Kılıç

Established: 1934

Geographic area of responsibility: Central Anatolia Region

Main interests: Plants; agriculture.

#### Activities:

Education: Technical staff in Extension Services in Agriculture.

Research: Plant protection (phytopathology, entomology, weed control); herbarium.

## Non-Governmental Organizations

**DOĞAL HAYATI KORUMA DERNEĞİ**  
[Turkish Society for the  
Protection of Nature]  
P.K. 18  
Bebek, Istanbul, Turkey



President: Mrs. Nerbis Yargan  
Established: 1975

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal areas and wetlands; wildlife preserves. Concerned with the impact of air and water pollution, chemical waste; fisheries.

### Activities:

Education: Stresses education and public information.

Establishment of protected areas: Working on a biosphere reserve in the area adjacent to the Bandirma Kus Cenneti (Manyas Bird Paradise).

Preservation of individual species: The Waldrep Ibis was given special protected status and captive breeding started as a result of work by the Society.

Legislation: Working to change the hunting laws.

## **ENVIRONMENTAL PROBLEMS FOUNDATION OF TURKEY**

Kennedy Caddesi 33/7  
Kavaklıdere  
Ankara, Turkey

Secretary General: Mr. Engin Ural

Established: 1978

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, coastal and marine areas, wetlands; national parks and wildlife preserves. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial and urban development; agriculture; agriculture, fisheries.

### Activities:

Education: Provides public information and has published pre-school children's books.

Research: Environmental law, environmental profile of Turkey, population policy of Turkey, population planning and the law, biological diversity.

Legislation: Was involved in the enactment of the Environment Law of Turkey in 1983. Also involved in the preparation of regulations to be issued in the near future.

**TURKISH ASSOCIATION FOR THE CONSERVATION OF  
NATURAL RESOURCES**

Menekşe Sok. 29/4  
Ankara, Turkey

President: Hasan Asmaz

Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in forests, deserts, coastal and marine areas, wetlands; national parks and wildlife preserves. Concerned with the impact of air and water pollution, chemical and solid waste, as well as environmental threats posed by urban development.

Activities:

Education: Provides public information.

Research: Nature conservation.

## Universities/Research Institutions

### **ANKARA UNIVERSITY**

Faculty of Agriculture  
Fisheries Department  
Ankara, Turkey

Contact: Dr. Doğan Atay

Established: 1974

Geographic area of responsibility: entire country

Main interests: Marine life; aquarium. Concerned with the impact of water pollution; fisheries.

Activities:

Education: University level.

Research: Fish culture, nutrition; water resources management; protection of natural fish stock.

### **ANKARA UNIVERSITY**

Ziraat Fakültesi  
Toprak Bölümü  
06110 Ankara, Turkey

[Faculty of Agriculture]  
Department of Soil Science

Contact: Dr. Nuri Munsuz

Established: 1956

Geographic area of responsibility: entire country

Main interests: Plants and freshwater organisms, soil, inland water resources. Concerned with the impact of water pollution, chemical waste, as well as environmental threats posed by industrial, oil and gas development; agriculture.

**Activities:**

**Education:** University level.

**Research:** Impact of industrial pollution (heavy metals, oil wastes); pollution from municipal wastes; oil pollution; protection of freshwater organisms and wildlife from pollution.

**ATATÜRK UNIVERSITY**

Çevre Sorunları Merkezi  
[Environmental Protection Center]  
Erzurum, Turkey

Director: Dr. Ersan Gemalmaz

Established: 1978

Geographic area of responsibility: Erzurum Province

**Main interests:** Air pollution, solid waste; agriculture.

**Activities:**

**Education:** Provides public information.

**Research:** Air pollution resulting from the burning of low quality coal in winter in Erzurum Province.

**Enforcement:** Recommendations of the Center are advisory in nature.

**BOĞAZIÇI UNIVERSITY**

[Bosphorus University]  
Institute of Environmental  
Sciences  
80815 Bebek  
Istanbul, Turkey

Director: Prof. Dr. Yüksel İnel

Established: 1980

Geographic area of responsibility: entire country

**Main interests:** Marine life and plants in coastal and marine areas. Concerned with the impact of air and water pollution, chemical waste, as well as environmental threats posed by industrial and urban development.

**Activities:**

**Education:** University level.

**Research:** Environmental modelling (Hydrodynamic, water quality and air quality modeling, environmental hazard assessment); environmental toxicology (heavy metals, organics).

**Legislation:** Advises to various governmental and nongovernmental organizations.

**ÇUKUROVA UNIVERSITY**

C.Ü. Fen-Edebiyat Fakültesi  
Biyoloji Bölümü  
Adana, Turkey

Faculty of Science/Literature  
Biology Department



Contact: Dr. Şevki Yazgan  
Established: 1977  
Geographic area of responsibility:  
Eastern Mediterranean region

Main interests: Birds, marine life, plants and insects in coastal and marine areas; botanical garden, wildlife preserves. Concerned with the impact of water pollution and chemical waste, as well as environmental threats posed by industrial, oil, gas and urban development; agriculture, fisheries.

Activities:

Education: University level.

Research: Biological control; heavy metal pollution in marine organisms; waste-water treatment.

Other: Preservation of individual species.

**ÇUKUROVA UNIVERSITY**

Department of Landscape Architecture  
Faculty of Architecture  
Adana, Turkey

Contact: Türker Altan and Erdoğan Gültekin  
Established: 1985  
Geographic area of responsibility: South of Turkey

Main interests: Plants in coastal areas and forests; botanical garden, national parks, wildlife preserves, zoos. Concerned with the impact of air, noise and water pollution, chemical waste, as well as environmental threats posed by industrial and urban development; agriculture (loss of agricultural land).

Activities:

Education: University level; provides information to the general public.

Research: Identify and plan conservation areas; optimal land use planning in the region of Cukurova.

Establishment of protected areas: The mountains of Amanos as well as the Taurus Mountains.

Preservation of individual species: Protectable species were defined and a list of these species was proposed to the Turkish Association of Nature Conservation.

**CUMHURİYET ÜNİVERSİTESİ**  
Fen-Edebiyat Fakültesi  
Biyoloji Bölümü  
Sivas, Turkey

**Cumhuriyet University**  
Faculty of Science/Literature  
Biology Department



Contact: Dr. Turgut Tanyolaç  
Geographic area of responsibility:  
Central Anatolia (Sivas region)

Main interests: Mammals and plants; national parks. Concerned with the impact of water pollution; fisheries.

Activities:

Research: Collection of plants, animals and freshwater fish.

**DİCLE UNIVERSITY**

Fen Edebiyat Fakültesi  
Kimya Bölümü  
Diyarbakır, Turkey

Faculty of Science/Literature  
Chemistry Department

Dean: Dr. Mustafa Özcan

Established: 1974

Geographic area of responsibility:

Tigris (Dicle) River, Southeast Anatolia, Diyarbakir

Main interests: Concerned with the impact of water pollution and chemical waste.

Activities:

Education: University level.

Research: Adsorption of chemical waste from water solution by the aid of activated carbon and inorganic chemicals; environmental pollution caused by Ergani Copper Mining Plant.

**EGE UNIVERSITY**

Botany Department  
Faculty of Science  
Bornova-İzmir, Turkey

Contact: Prof. Münir Öztürk

Established: 1961

Geographic area of responsibility: West Anatolia

Main interests: Plants in forests, coastal and marine areas, wetlands; botanical gardens, national parks, and wildlife preserves. Concerned about the impact of air, water and noise pollution, solid and chemical waste, as well as environmental threats posed by industrial and urban development; agriculture.

Activities:

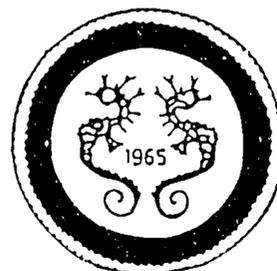
Education: Secondary school level; provides information to the general public.

Research: Pollution effects on plants; ecology of terrestrial and water plants; productivity of grasslands; bryophytes and algae of Turkey in relation to pollution.

Establishment of protected areas: Operates a botanical garden and arboretum for preservation of species.

Preservation of individual species: Liquidambar orientalis; native plants; macchia elements; exchanges seed materials and plants with about 200 institutions all over the world. Operates a seed bank.

**EGE UNIVERSITY**  
**Hydrobiology & Water Resources**  
**Research Center**  
Izmir, Turkey



Director: Prof. Dr. Hüseyin Uysal  
Established: 1965  
Geographic area of responsibility: Aegean region

Main interests: Birds, mammals, marine life, algae, and plants in coastal and marine areas; aquarium, botanical garden, national parks, wildlife preserves, zoos. Concerned with air, water and noise pollution, chemical and solid waste; agriculture, fisheries.

Activities:

Education: University level.

Research: Marine and freshwater biological resources; aquaculture; pollution.

Other: Establishment of protected areas; Preservation of individual species.

**KARADENİZ UNIVERSITY**  
Forestry Faculty  
Trabzon, Turkey

Contact: Dr. Mehmet Serez  
Established: 1971  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life and plants in coastal and marine areas, forests and wetlands; botanical garden, national parks, wildlife preserves. Concerned with air, noise and water pollution, chemical and solid waste; fisheries.

Activities:

Education: University level.

Research: Forest and nature conservation; air pollution.

Preservation of individual species: Fallow Deer, Red Deer, Roe Deer, Mountain Goat, Wild Sheep, gazelle, Quercus pontica, Pierocaria fraxinifolia, Betula medwedewii, etc.

**KARADENİZ UNIVERSITY**  
Science Faculty  
Department of Biology  
Trabzon, Turkey

Contact: Dr. Osman Beyazoğlu  
Established: 1955  
Geographic area of responsibility: Black Sea region

Main interests: Marine life and plants in coastal and marine areas, forests; national parks, wildlife preserves, zoos. Concerned with the impact of air and water pollution, chemical waste; agriculture, fisheries.

Activities:

Education: University level.

Research: Effects of chemicals, heavy metals and organic waste.

Preservation of individual species: Caucasian Black Grouse, Red Deer, Armenian Roe Deer, *Primula longipes*, *Linum flavum* subsp. *scabrinerve*, *Rhododendron simirnowii*, *Dianthus zeberbaueri*.

**MIDDLE EAST TECHNICAL UNIVERSITY**  
Institute of Marine Sciences  
P.K. 28  
33731 Erdemli-İçel, Turkey



Contact: Prof. Ümit Ünlüata  
Established: 1975  
Geographic area of responsibility:  
Mediterranean Sea, North Aegean Sea, Marmara Sea  
and Black Sea.

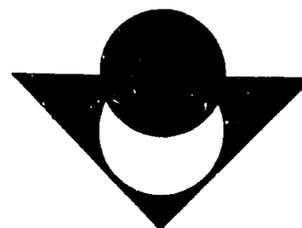
Main interests: Marine life. Concerned with the impact of water pollution, chemical and solid waste; fisheries.

Activities:

Education: University level (graduate school).

Research: Physical and chemical oceanography; marine geology and geophysics; biological oceanography and fisheries; marine pollution.

**SCIENTIFIC AND TECHNICAL RESEARCH  
COUNCIL OF TURKEY**  
P.K. 21  
Gebze-Kocaeli, Turkey



Contact: Head of the Chemical  
Engineering Department  
Established: 1978  
Geographic area of responsibility: entire country

Main interests: Marine life. Concerned with the impact of air and water pollution, chemical and solid waste.

Activities:

Research: Characterization of industrial wastewater; wastewater treatment studies; receiving water studies.

Includes the Marmara Scientific and Industrial Research Institute.

**SELÇUK UNIVERSITY**

Faculty of Science & Art

Department of Biology

Konya, Turkey



Contact: Dr. Neşet Şimşek

Geographic area of responsibility: entire country

Main interests: Mammals; wildlife preserves.

Activities:

Education: University level.

Preservation of individual species: Waldrap Ibis, Fallow Deer, Red Deer, Chamois, Wild Sheep.

**UNIVERSITY OF ISTANBUL**

Su Ürünleri Yüksekokulu - Beykoz

[Graduate School of Water Products]

Istanbul, Turkey

Contact: Prof. Dr. İsmet Baran

Established: 1953

Geographic area of responsibility: Marmara and Black Sea

Main interests: Marine life. Concerned with the impact of water pollution; fisheries.

Activities:

Education: University level

Research: Fisheries; marine biology; inland fishery; aquaculture.

Establishment of protected areas: Marmara and Black Sea

Other: Preservation of individual species.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Ankara University  
Water Products, Fishing & Game Department  
Ankara, Turkey

Atatürk University  
Faculty of Agriculture  
Animal Science Department  
Erzurum, Turkey

Dokuz Eylül University  
Institute of Marine Science & Technology  
SSK Tesisleri D Blok Kat Konak  
PO Box 478  
Izmir, Turkey

Ege University  
Fen Fakültesi  
Hidrobioloji Enstitüsü  
Bornova, Izmir, Turkey

Faculty of Science  
Hydrobiology Institute

Ege University  
Faculty of Agriculture  
Agro-ecology & General Plant Breeding Dept.  
Bornova, Izmir, Turkey

Ege University  
Faculty of Science  
Department of Biological Oceanography  
Bornova-Izmir, Turkey

Et ve Balık Kurumu  
Balıkçılık Araştırma Merkezi  
[Fisheries Research Institute]  
Beşiktaş, Istanbul, Turkey

General Directorate of the Environment  
Çevre Genel Müdürlüğü  
[Department of Research, Planning &  
Coordination]  
Atatürk Bulvarı 143  
Ankara, Turkey

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

Hayvanat Bahçesi İzmir  
[İzmir Zoo]  
İzmir, Turkey

Hydrobiological Research Institute  
Baltalimanı Caddesi No. 80  
İstanbul-Emirgan, Turkey

Karadeniz Üniversitesi  
[Black Sea University]  
Faculty of Marine Sciences & Technology  
Trabzon, Turkey

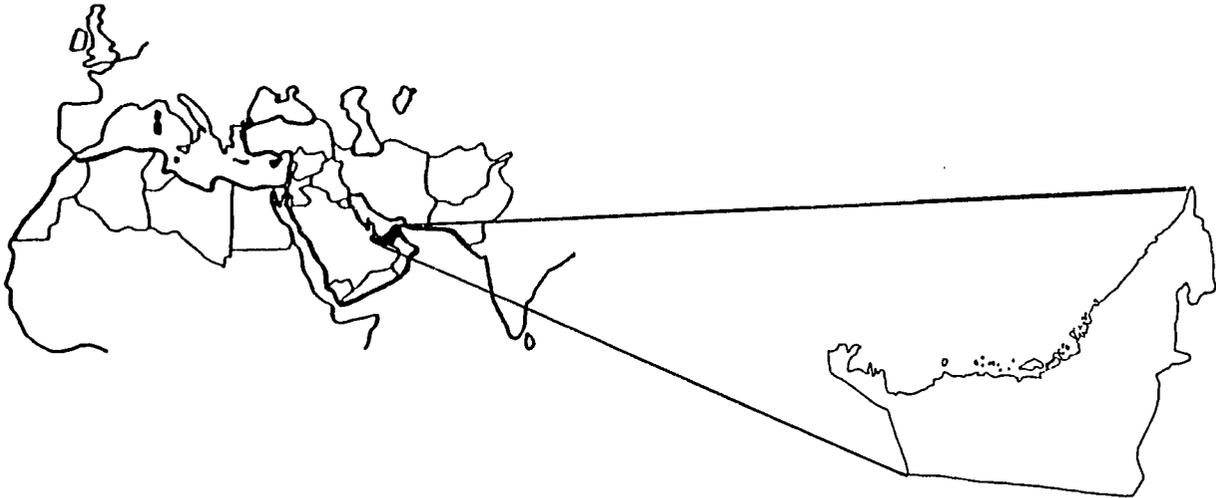
Ministry of Agriculture, Forestry  
& Rural Affairs  
Adakale Sok. No. 85  
Kocatepe  
Ankara, Turkey

Tabiatı Koruma ve Tanıtma Türk Gençlik Derneği  
[Turkish Youth Society of Nature Conservation]  
c/o Sumru Ünsal  
Ege University  
Fen Fakültesi  
Zooloji Bölümü Öğrenci Kulübü  
Bornova-İzmir, Turkey

Faculty of Science  
Zoology Dept. Student Club

University of September Ninth  
(Dokuz Eylül)  
Faculty of Science  
Department of Zoology  
İzmir, Turkey

# UNITED ARAB EMIRATES



Population: 1,283,000  
Area: 82,902 km<sup>2</sup> (32,000 sq.mi.)  
Language: Arabic

## Governmental Organizations

### **HIGHER ENVIRONMENTAL COMMITTEE**

Ministry of Health  
PO Box 11327  
Dubai, United Arab Emirates

Deputy Chairman: Dr. Abdulwahab al Muhaideb  
Established: 1975  
Geographic area of responsibility: entire country

Main interests: Marine life in coastal and marine areas. Concerned with the impact of water pollution as well as environmental threats posed by oil and gas development.

### Activities:

Education: Still very limited role.

Research: Monitoring marine pollution in some organisms from petroleum and pesticides. Monitoring for heavy metals in some selected marine organisms.

## Non-Governmental Organizations

**EMIRATES NATURAL HISTORY GROUP (Abu Dhabi)**  
PO Box 2687  
Abu Dhabi, United Arab Emirates

Chairman: M.C. Crumbie

Patron:

H.E. Shaikh Nahayyan Bin Mubarak Al Nahayyan

Established: 1976

Geographic area of responsibility: entire country



Main interests: Birds, mammals, marine life and plants in coastal and marine areas, deserts, forests and wetlands; aquarium, botanical garden, national parks, wildlife preserves and zoos. Concerned with the impact of air, water and noise pollution, chemical and solid waste, as well as environmental threats posed by industrial, urban, oil and gas development; agriculture, fisheries.

### Activities:

Education: Volunteer group provides information to the general public.

## Universities/Research Institutions

**DUBAI WILDLIFE RESEARCH CENTRE**  
PO Box 11626  
Dubai, United Arab Emirates

Director: Dr. Joseph B. Platt

Established: 1982 (Private for the son of the ruler, H.H. Shaikh Mohamad Rashid, therefore semi-governmental.)

Geographic area of responsibility: Emirate of Dubai



Main interests: Birds, mammals, marine life in coastal and marine areas, deserts and wetlands; wildlife preserves and zoos. Concerned with the impact of water pollution as well as environmental threats posed by urban development.

### Activities:

Education: Book publication.

Research: Cataloging of wildlife, identification of natural areas.

Establishment of protected areas: Shorebird habitat of world significance.

Preservation of individual species: Captive breeding of native fauna, preservation of Houbara Bustard, falcons, Oryx. Active in several international bodies as Gulf representative.

**UNITED ARAB EMIRATES UNIVERSITY**  
**Science College**  
PO Box 15551  
Al-Ain, United Arab Emirates

Contact: Dean Ezzet M. Khairy  
Established: 1976/77  
Geographic area on responsibility: entire country

Main interests: Marine life and plants in coastal and marine areas, deserts; botanical garden, national parks, wildlife preserves. Concerned with the impact of air and water pollution, chemical waste, as well as environmental threats posed by oil, gas and urban development; agriculture, fisheries.

Activities:

Education: University level.

Research: Problems of desert and marine environments.

Preservation of individual species: Medicinal plants; palm trees; desert animals, especially selected species of camel.

## ADDITIONAL AGENCIES AND ORGANIZATIONS\*

Agricultural Experiment Center  
PO Box 1304  
Al Ain, Abu Dhabi  
United Arab Emirates

Al Ain Zoo and Aquarium  
PO Box 1204  
Al Ain, Emirate of Abu Dhabi  
United Arab Emirates

Dubai Municipal Zoo and Aquarium  
PO Box 1189  
Dubai, United Arab Emirates

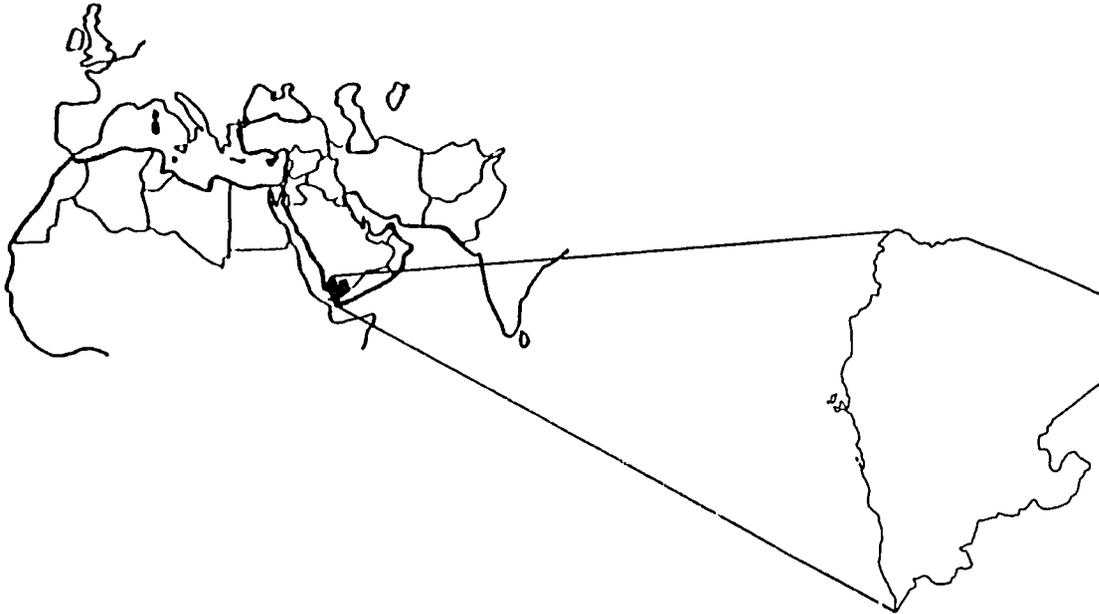
Foundation for Falconry & Conservation  
Presidential Court  
Abu Dhabi, United Arab Emirates

Ministry of Agriculture & Fisheries  
PO Box 1509  
Abu Dhabi, United Arab Emirates

Ministry of the Interior  
Abu Dhabi, United Arab Emirates

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

# YEMEN ARAB REPUBLIC



Population: 6,159,000  
Area: 195,052 km<sup>2</sup> (75,290 sq.mi.)  
Language: Arabic

## Non-Governmental Organizations

### **NATURE AND ORNITHOLOGICAL SOCIETY OF YEMEN**

Mohamed Ali Othman School  
PO Box 5713  
Taiz, Yemen Arab Republic

Contact: Mark Halliday, Secretary  
Geographic area of responsibility: entire country

Main interests: Birds, mammals, marine life, plants in deserts, coastal and marine areas, mountains. Concerned with the impact of water pollution, as well as environmental threats posed by industrial development; agriculture.

#### Activities:

Education: Provides public information.

Although the organization was set up as an ornithological society, it has expanded its focus to encompass all natural history.

**ADDITIONAL AGENCIES AND ORGANIZATIONS\***

Fisheries Center  
Hodeidah, Yemen Arab Republic

Ministry of Agriculture  
Sana'a, Yemen Arab Republic

Ministry of Health  
Sana'a, Yemen Arab Republic

Sana'a University  
Faculty of Agriculture  
Sana'a, Yemen Arab Republic

\* Names and addresses have been verified by at least two independent sources. The organizations did not respond to repeated requests for further information. Addresses may be incomplete.

PLEASE PRINT OR TYPE. Check as many items as apply to your organization.

Please return to:  
Bruun/Montague  
969 Park Ave.  
New York, NY 10028  
USA

Name \_\_\_\_\_

Address \_\_\_\_\_

Contact person \_\_\_\_\_ Title \_\_\_\_\_

Government organization \_\_\_ Nongovernmental organization \_\_\_ University or Research Institution \_\_\_

Other \_\_\_\_\_

Geographic area of responsibility:

Entire country \_\_\_\_\_ Limited region (please name) \_\_\_\_\_

I. Topic of main interest or responsibility:

A. Nature Conservation

- |                      |                    |                              |
|----------------------|--------------------|------------------------------|
| 1. birds _____       | 6. coastal _____   | 12. aquarium _____           |
| 2. mammals _____     | 7. desert _____    | 13. botanical garden _____   |
| 3. marine life _____ | 8. forest _____    | 14. national parks _____     |
| 4. plants _____      | 9. marine _____    | 15. wildlife preserves _____ |
| 5. other _____       | 10. wetlands _____ | 16. zoos _____               |
| _____                | 11. other _____    | 17. other _____              |
| _____                | _____              | _____                        |

B. Environmental Threats

- |                           |                                  |
|---------------------------|----------------------------------|
| 18. air pollution _____   | 24. agriculture _____            |
| 19. chemical waste _____  | 25. fisheries _____              |
| 20. noise pollution _____ | 26. industrial development _____ |
| 21. solid waste _____     | 27. oil & gas development _____  |
| 22. water pollution _____ | 28. urban development _____      |
| 23. other _____           | 29. other _____                  |
| _____                     | _____                            |
| _____                     | _____                            |

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PLEASE PRINT OR TYPE. Check as many items as apply to your organization.

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II. Activities of organization:

A. Education

primary schools (age 5-13) \_\_\_\_\_ secondary schools (age 14-18) \_\_\_\_\_  
public information \_\_\_\_\_ Other \_\_\_\_\_

B. Research (please describe focus of research)

C. Establishment of Protected Areas

D. Preservation of Individual Species

E. Legislation

F. Enforcement

G. Date organization was established \_\_\_\_\_

H. Other information to be included:

PLEASE PRINT OR TYPE. Check as many items as apply to your organization.

Please return to:  
Bruun/Montague  
969 Park Ave.  
New York, NY 10028  
USA

Name \_\_\_\_\_

Address \_\_\_\_\_

Contact person \_\_\_\_\_ Title \_\_\_\_\_

Government organization \_\_\_ Nongovernmental organization \_\_\_ University or Research Institution \_\_\_

Other \_\_\_\_\_

Geographic area of responsibility:

Entire country \_\_\_\_\_ Limited region (please name) \_\_\_\_\_

I. Topic of main interest or responsibility:

A. Nature Conservation

- |                      |                    |                              |
|----------------------|--------------------|------------------------------|
| 1. birds _____       | 6. coastal _____   | 12. aquarium _____           |
| 2. mammals _____     | 7. desert _____    | 13. botanical garden _____   |
| 3. marine life _____ | 8. forest _____    | 14. national parks _____     |
| 4. plants _____      | 9. marine _____    | 15. wildlife preserves _____ |
| 5. other _____       | 10. wetlands _____ | 16. zoos _____               |
| _____                | 11. other _____    | 17. other _____              |
| _____                | _____              | _____                        |

B. Environmental Threats

- |                           |                                  |
|---------------------------|----------------------------------|
| 18. air pollution _____   | 24. agriculture _____            |
| 19. chemical waste _____  | 25. fisheries _____              |
| 20. noise pollution _____ | 26. industrial development _____ |
| 21. solid waste _____     | 27. oil & gas development _____  |
| 22. water pollution _____ | 28. urban development _____      |
| 23. other _____           | 29. other _____                  |
| _____                     | _____                            |
| _____                     | _____                            |

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PLEASE PRINT OR TYPE. Check as many items as apply to your organization.

II. Activities of organization:

A. Education

primary schools (age 5-13) \_\_\_\_\_ secondary schools (age 14-18) \_\_\_\_\_  
public information \_\_\_\_\_ Other \_\_\_\_\_

B. Research (please describe focus of research)

C. Establishment of Protected Areas

D. Preservation of Individual Species

E. Legislation

F. Enforcement

G. Date organization was established \_\_\_\_\_

H. Other information to be included:

-----  
PLEASE PRINT OR TYPE. Check as many items as apply to your organization.

Please return to:  
Bruun/Montague  
969 Park Ave.  
New York, NY 10028  
USA

Name \_\_\_\_\_

Address \_\_\_\_\_

Contact person \_\_\_\_\_ Title \_\_\_\_\_

Government organization \_\_\_ Nongovernmental organization \_\_\_ University or Research Institution \_\_\_

Other \_\_\_\_\_

Geographic area of responsibility:

Entire country \_\_\_\_\_ Limited region (please name) \_\_\_\_\_

I. Topic of main interest or responsibility:

A. Nature Conservation

- |                      |                    |                              |
|----------------------|--------------------|------------------------------|
| 1. birds _____       | 6. coastal _____   | 12. aquarium _____           |
| 2. mammals _____     | 7. desert _____    | 13. botanical garden _____   |
| 3. marine life _____ | 8. forest _____    | 14. national parks _____     |
| 4. plants _____      | 9. marine _____    | 15. wildlife preserves _____ |
| 5. other _____       | 10. wetlands _____ | 16. zoos _____               |
| _____                | 11. other _____    | 17. other _____              |
| _____                | _____              | _____                        |

B. Environmental Threats

- |                           |                                  |
|---------------------------|----------------------------------|
| 18. air pollution _____   | 24. agriculture _____            |
| 19. chemical waste _____  | 25. fisheries _____              |
| 20. noise pollution _____ | 26. industrial development _____ |
| 21. solid waste _____     | 27. oil & gas development _____  |
| 22. water pollution _____ | 28. urban development _____      |
| 23. other _____           | 29. other _____                  |
| _____                     | _____                            |
| _____                     | _____                            |

( O V E R )

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PLEASE PRINT OR TYPE. Check as many items as apply to your organization.

II. Activities of organization:

A. Education

primary schools (age 5-13) \_\_\_\_\_ secondary schools (age 14-18) \_\_\_\_\_  
public information \_\_\_\_\_ Other \_\_\_\_\_

B. Research (please describe focus of research)

C. Establishment of Protected Areas

D. Preservation of Individual Species

E. Legislation

F. Enforcement

G. Date organization was established

H. Other information to be included:

off