### A GLOBAL STRATEGY FOR THE CONSERVATION OF FALCONS AND HOUBARA



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 $A\ Global\ Strategy$  for the Conservation of Falcon and Houbara Resources



Twenty-one years ago we hosted our first international gathering of brother falconers from all over the world. Now, as this millenium draws to a close and we prepare ourselves for a new one, it is even more important that we come together to secure the future for our children and the world that they will inherit from us. It is truly said that we borrow the world from our children and hold it in trust for them.

The traditional sport of falconry was passed down to us from our fathers, from a time when we were closer to nature and life was more simple. It is a constant reminder to us of the forces of nature, of the inter-relationships between living things and the land they share, and of our own dependence on nature. Falconry depends on healthy populations of the quarry, such as the Houbara, and they in turn depend on the continuing health of their breeding and wintering grounds. Falconers thus have a concern for natural habitats and for the sustainable use of resources.

During my own lifetime I have seen many remarkable changes and achievements occur in the Middle East. Oil has brought immense benefits for the welfare of our people. But progress can also pose problems for nature - pollution of land and sea, unwanted development and spoiling of natural areas, and disturbance of quiet places which once gave refuge to wildlife. Some of the prey species have suffered from loss of habitat, and from persecution or overhunting. It is important for us to take steps to turn the tide before it is too late, in order to safeguard the future.

This plan is essential in helping us to recognise how these complex systems interrelate and depend on each other. It helps us to see clearly our way forward and our priorities for action. So much is already being achieved by many organisations in many countries. We will reach our goals by working together, hand-in-hand, in cooperation, not by confrontation.

All of us share a common goal: the sustainable, balanced use of resources. We wish to leave the Earth as good, or better, than we found it



Foreword by
His Highness
Sheikh Zayed bin Sultan Al Nahyan,
Ruler of the United Arab Emirates



### THE ARABIAN FALCONERS ASSOCIATION

#### **AIMS**

To cater for all Arab falconers' needs

To provide international representation for Arab falconry

To work for improvements in the health and welfare of captive falcons

To monitor wild falcon and quarry populations and work for their continued health through programmes of research and conservation funded by falconers

To monitor national and international laws and

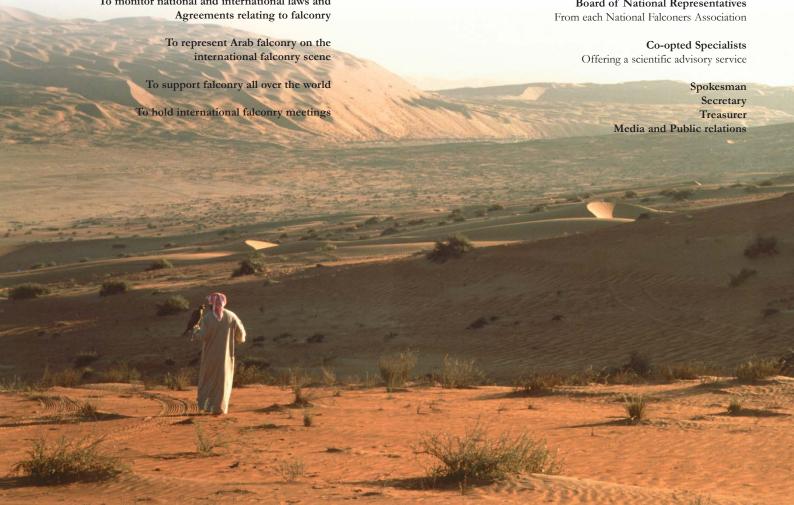
#### A LANDMARK IN THE HISTORY OF FALCONRY

A centuries-old tradition - a matchless rapport with their birds -Falconers throughout the Middle East have a unique heritage. There are more falconers in the Middle East than anywhere else in the world.

In an Arabian Falconers Union, these falconers would possess great strength - strength to conserve and protect for the future those very things upon which falconry depends - wild falcons, the houbara, kurrowan and hare, and the fragile hunting grounds.

#### **STRUCTURE**

Board of National Representatives





# THE NATIONAL FALCONERS' ASSOCIATIONS

### OF EACH MEMBER STATE OF THE ARABIAN FALCONERS ASSOCIATION

#### **AIMS**

To bring together falconers and information To produce magazine or newsletter To hold local meetings and talks

To open a National Falconry Center and Falcon Hospital

To ensure that enough quarry is available for falconers

To administer local hunting

To maintain national falconry archives

To maintain a PIT microchip database

To help administer CITES

To hold international conferences

To teach and help young falconers













#### NATIONAL FALCONERS ASSOCIATION

### ABU DHABI FALCON HOSPITAL

Specialising in the care and treatment of falcons, the wildlife veterinary research institute of the UAE National Falconers Association will also research the health and disease of wildlife in the UAE. The Headquarters at Mafraq, Abu Dhabi, are open to the General Public and provide a veterinary service to falcons and other animals.

It is staffed by specialist falcon veterinarians for the highest standard of health care.

#### RESEARCH PROJECTS

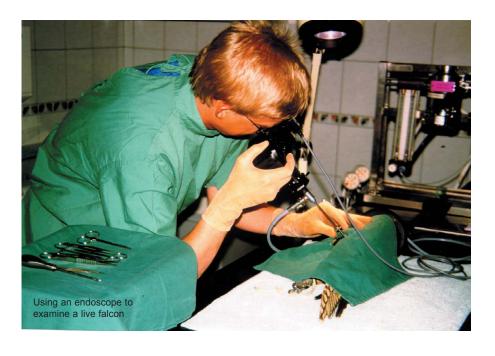
On falcon health problems aiming to improve the medical and surgical care of falcons

### QUARANTINE UNIT ISOLATION WARDS

For isolation of recently imported falcons to ensure they are healthy before being trained

#### **HOSPITAL WARDS**

- For falcons undergoing veterinary treatment
- Staffed by specialist falcon veterinarians for the highest standard of healthcare





### MOULTING WARDS

- Modern quarters for moulting falcons under contract.
- Falcons maintained on a top quality diet with vitamin supplements to ensure strong new feathers and good overall health.

#### PUBLIC AWARENESS UNIT

- To promote public awareness of health and disease issues in captive falcons
- To encourage good husbandry of captive falcons
- To promote the sustainable use of the houbara as a quarry species
- To show the importance of falconry to Arab cultural heritage





### FALCON HEALTH INSURANCE

May be purchased for falcons

#### MOBILE CLINIC

First aid and health care for falcons on hunting expeditions

## THE EMIRATES FALCONERS' CLUB ESSENTIAL MODERN FACILITIES FOR THE FALCONER





SALES ROOMS Modern sales rooms for falcons

This center, currently still in the planning stage, will have immense benefit for Falconers in the UAE. A central base for the National Falconers Association, it will fulfill many roles.

The education of young people will be a priority, not only young falconers - but to teach everyone the true tenets of falconry - a love and respect for both the falcon and quarry, a deep and abiding concern for the health of the hunting grounds, and an awareness of the unbroken line of tradition which follows falconry back to the very earliest days of the Arab people.



#### SPORTING AGENCY OFFICE

Co-ordinating hunting trips for Arab falconers and sportsmen abroad

#### COLD STORES FOR FALCON

Top quality food to keep falcons in the best of health







NATIONAL FALCONERS ASSOCIATION OFFICE



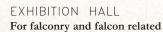
#### CITES OFFICE

Authority dealing with the import of falcons into the UAE



#### MEFRG OFFICE

National Headquarters of the Middle East Falcon Research Group



• hunting equipment

- fine art of falcons and wildlife
- conservation

exhibitions

- Arabian Sporting Heritage





#### SHOP

Allowing easy access to the world's best books, health care and falconry equipment



#### CONFERENCE FACILITIES

For conferences on:

- Falconry
- Wildlife legislation
- Conservation





# CONSERVATION AND RESEARCH

A priority for the future of Arab falconry. The commitment of the Arab Falconers' Association to wise conservation will be absolute. What would falconry be with no falcons? What would falconry be if the hunting grounds are bare of quarry? Research projects are the first stage in creating practical conservation programmes. Their contribution to the continuation of species - and the future of falconry cannot be overestimated.

#### STAGE II PREPARATION

- Develop the project structure
- Estimate costs
- Prepare budgets
- Obtain funds
- Obtain relevant permits (fieldwork permits, CITES)
- Hire staff
- Sign Research Agreement between government and/or non-governmental organisations

#### STAGE I PRELIMINARY DISCUSSIONS

- Identify the aims of the project
- Identify suitable biologists and institutions
- Sign a Memorandum of Understanding between government and/or nongovernmental organisations

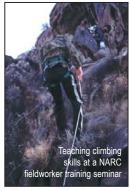




#### STAGE V RESULTS

- Secure a sustainable, long-term future for the target species, the habitat in which it lives,
   and other species dependent upon those habitats
- Closer ties and understanding at all levels between participating countries
- Funds, resources and training for range countries' biologists and scientific institutions







#### STAGE IV PROGRESS

- Progress reports
- Visiting field teams
- Receiving data
- Processing data
- Re-evaluating project (meetings, workshops, conferences, feedback, external advice)
- Publishing results (scientific journals, popular media, articles etc.)



#### STAGE III SETTING UP

- Direct the project internationally
- Manage the project nationally
- Link with sister projects (e.g. through the MEFRG PIT scheme, migration studies)
- Communicate in different languages
- Standardise methods and data (e.g. a manual of scientific protocols and datasheets)
- Obtain equipment and transport
- Get funds and supplies to fieldwork countries and teams
- Maintain resource and cash flow schedules
- Optimise use of resources
- Transport scientific specimens/material to other institutions for analysis

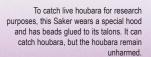




### HOUBARA FIELD RESEARCH IN THE UAE

The arrival of the Houbara in the United Arab Emirates has been a much-awaited event for hundreds of years. Falconers and their falcons must use all their traditional skills to track the shy houbara during the winter months. Nowadays, fewer and fewer houbara visit the UAE. We need to discover the reasons behind their declining numbers, and we need to know how to halt this decline

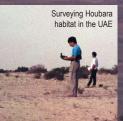
before the houbara becomes extinct in the UAE.





MONITOR THE WINTERING POPULATION OF HOUBARA IN THE UAE IN ORDER TO EVALUATE POPULATION TRENDS

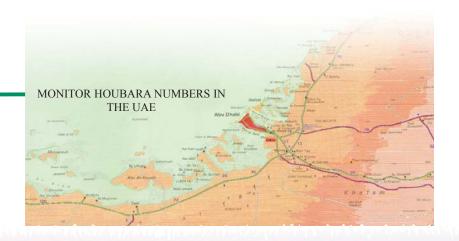
CREATE NETWORKS OF WILDLIFE RANGERS TO MONITOR THE UAE HOUBARA POPULATION COUNTRYWIDE



ASSESS AND CHECK THE
DISTRIBUTION AND OCCURRENCE OF
HOUBARA THROUGHOUT THE
COUNTRY



ASSESS AND MONITOR THE IMPACT OF HUNTING AND DISTURBANCE ON THE UAE HOUBARA POPULATION



#### IMPLEMENT RESEARCH ACTIVITIES TO INVESTIGATE:

- Houbara habitat choice
- Houbara diet
- Genetic studies on the origin of wintering populations

  Time of houbara arrival and departure
- The numbers and distribution of the houbara in the UAE

**IDENTIFY TRENDS IN** THE HOUBARA POPULATION AND HABITAT **AVAILABILITY** IN THE UAE

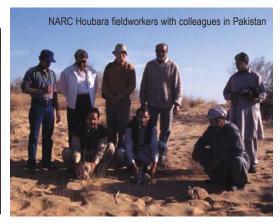
**ESTABLISH PROTECTED** MANAGED AREAS (HOME HUNTING GROUNDS) FOR **HOUBARA** 



#### CHINA

Collaborative research on:

- Breeding biology (Productivity)
- Migration
- Distribution
- Population Dynamics
- Population Monitoring



### HOUBARA RESEARCH IN THE RANGE COUNTRIES

The Asian Houbara Bustard is a widely distributed bird found in twenty-three countries. Some populations are migratory and travel thousands of kilometers to reach their wintering grounds in the Arabian Peninsula. The responsibility of ensuring a secure future for these birds rests with all the countries crossed by the houbara. A concerted, integrated effort to conserve the houbara is therefore essential.

#### **PAKISTAN**

 Rehabilitation Center (Houbara Foundation

International) for confiscated
Houbara

- Assessment and control of Houbara trade
- Assessment of the impact of hunting and trapping
- Breeding biology (productivity)
- Migration





Collaborative research on:

- Assessment of the impact of hunting and trapping
- Breeding Biology (Productivity)
- Migration
- Distribution
- Population Dynamics
- Population Monitoring

#### ARABIAN PENINSULA (Oman, Saudi Arabia,

- Distribution
- Breeding population
- Protected Areas
- Migration

# GLOBAL MANAGEMENT OF THE WILD POPULATION OF THE ASIAN HOUBARA BUSTARD THROUGHOUT ITS RANGE

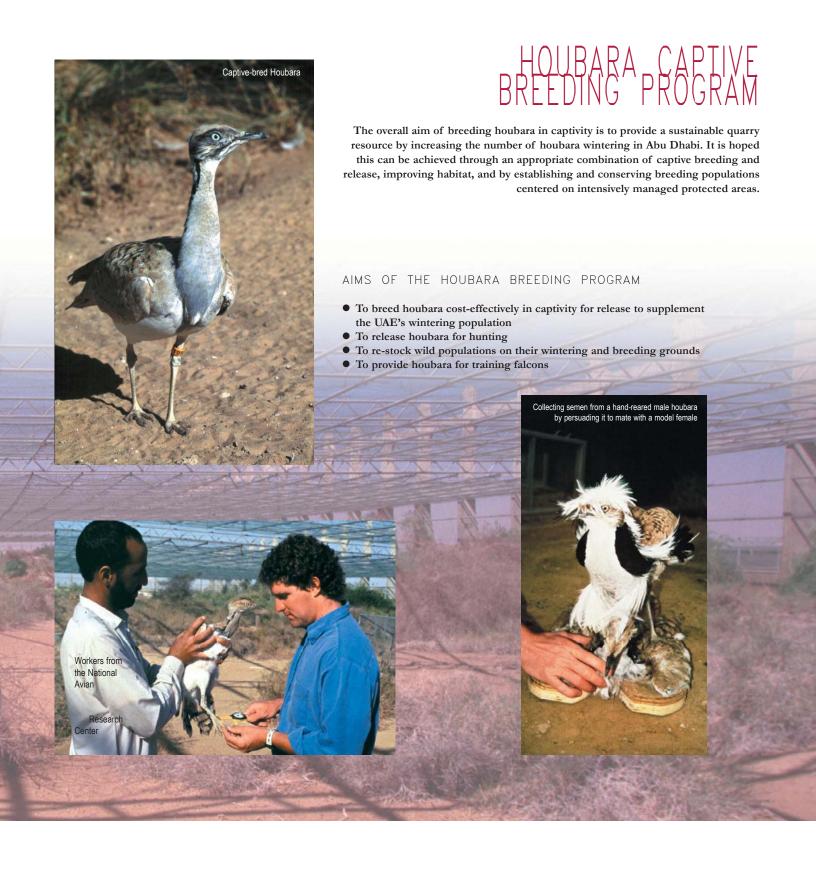
Yemen, UAE)

- Trends in the population

Breeding range

Wintering range







#### INTERNATIONAL COLLABORATION

- Increase the exchange of birds between captive breeding centers to maximise their genetic variation and reduce the need to collect birds from the wild
- Establish a database of the origins of each captive houbara
- Share expertise and information between captive breeding centers

#### RESEARCH INTO

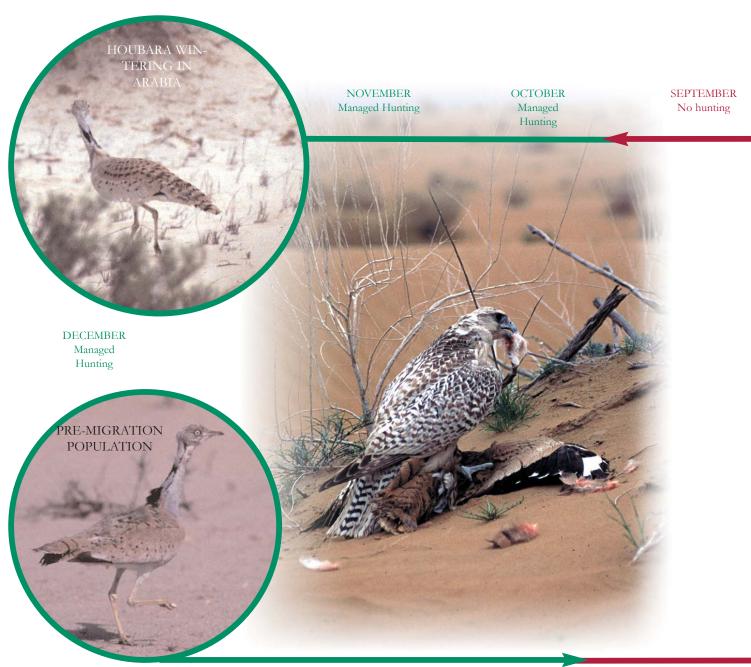
- Artificial insemination
- Nutrition and diet
- Physiology of Reproduction
- Release techniques
- Rearing and handling techniques
- Genetic management of the captive population
- Behaviour in Captivity
- Health



### THE HOUBARA YEAR

The life story of the Houbara takes place over thousands of miles and many countries. Some houbara stay year-round in the same region. Most houbara spend the winter thousands of miles from their breeding grounds. We must ensure that the houbara is protected from hunting during the vulnerable times of the year - during courtship, egg-laying and chick rearing. This diagram shows the movements and life-cycle of the houbara, and shows those seasons when responsible falconers should hunt houbara, and those seasons when the houbara should be left unhunted, to breed in peace, producing many young houbara for the next season's hunting.





JANUARY Managed Hunting FEBRUARY Managed Hunting (special cases) MARCH Egg-laying

### INTERNATIONAL AGREEMENTS ON THE HOUBARA BUSTARD

The Houbara Bustard is a bird of great international importance due to its wide distribution across much of Asia and north Africa.

The migratory existence of the houbara means that over-hunting or habitat loss in one country may affect Houbara populations in another. International efforts are therefore essential to ensure the long-term survival of this beautiful bird.

CMS CONVENTION ON THE CONSERVATION OF MIGRATORY SPECIES OF WILD ANIMALS, BONN, 1979

CMS CONFERENCE OF THE PARTIES

SECOND MEETING, GENEVA 1991



CMS CONFERENCE OF THE PARTIES THIRD MEETING, NAIROBI 1994

Appendix I: Northwest African Houbara (endangered) Appendix II: Asian Houbara (Unfavourable Conservation Status)



Recommend the transfer of Houbara from CITES Annex I to Annex II before the next CITES Conference of the Parties



CITES
CONVENTION ON INTERNATIONAL TRADE IN
ENDANGERED FLORA AND FAUNA,
WASHINGTON 1973

Appendix I: Houbara (threatened with extinction)

#### HOUBARA MANAGEMENT PLAN

### DRAFT AGREEMENT ON THE CONSERVATION AND MANAGEMENT OF THE ASIAN HOUBARA

November 1995

Parties to the Bonn Convention on Houbara

#### PROPOSED HOUBARA MANAGEMENT COMMITTEE

- 5 Experts representing different range counties
- 1 Representative from Western Conservation Organisations
- 1 Representative from Arab Falconers
- 1 Expert on Houbara Bustard Management
- 1 Expert on Rural Development
- 1 Expert on Environmental Law
- Up to 3 Observers from International Organisations

#### DRAFT AGREEMENT AREA

Afghanistan, Bahrein, China, India, Iran, Iraq, Kazakhstan, Kuwait, Mongolia, Oman, Pakistan, Qatar, Russia, Saudi Arabia, Turkmenistan, United Arab Emirates, Uzbekhistan, Temen

#### CONSERVATION FUND

Identify sources of funding and where funds will be spent



CMS CONFERENCE OF THE PARTIES,
FOURTH MEETING, GENEVA 1997



THE AFRICAN CONVENTION ON THE CONSERVATION OF NATURE AND NATURAL RESOURCES 1968



#### RESEARCH CAPTIVE QUARRY SPECIES

- Captive breeding
- Incubation studies
- Health studies
- Diet studies
- Behavioural studies
- Genetic studies
- Growth studies
- Release techniques

### THE KURROWAN AND HARE

The ageless flight of the saker at houbara - the peregrine at kurrowan. The falconer, kneeling by his falcon after it has caught a desert hare.

These precious moments rest upon the delicate balance between predator and prey, between the prey and its habitat. Conservation projects are planned on the desert hare and kurrowan.

The Arabian Falconers Association will be a powerful force working towards reversing the decline of traditional quarry species.

#### PRODUCTIVITY

Identify and measure:

- Breeding areas
- Breeding populations
- Nesting success
- Total productivity i.e. total number of young produced per year

### USE ALTERNATIVE PREY FOR TRAINING FALCONS

- Captive bred houbara, kurrowan, hares
- Pheasants, ducks, pigeons, seagulls

#### INCREASE PRODUCTIVITY:

- By captive breeding and releasing
- By improving wild breeding success

RESEARCH WILD QUARRY

#### MORTALITY

Identify causes of death in wild populations and measure relative importance of:

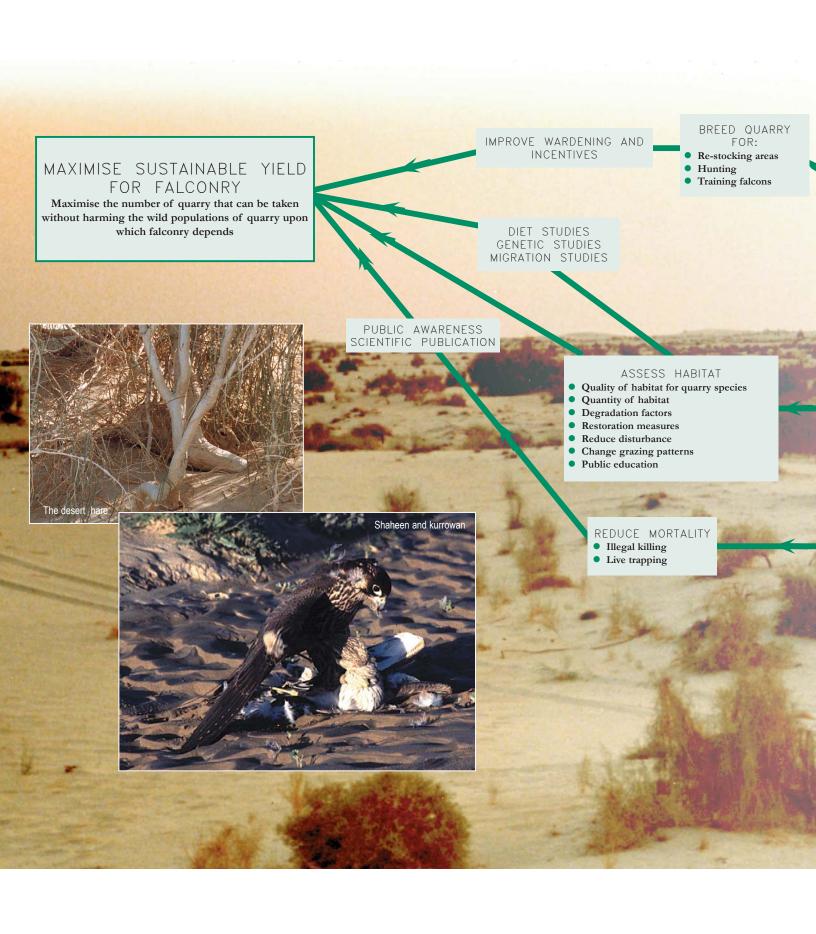
- Natural factors
- Illegal killing
- Live trapping
- Hawking
- Pesticides

KURROWAN
Burhinus oedicnemus
Declining populations

HARES
Lepus capensis
Declining populations







Monitoring Wild Falcon Populations

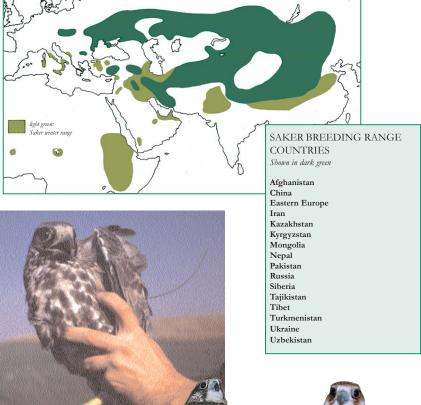
### THE SAKER FALCON

Falco cherrug

#### OUR TRADITIONAL HUNTING PARTNER

Throughout history, Saker falcons have hunted in partnership with man - their nesting lands the cradle of falconry. But sakers are now in grave danger. In the past ten years, overtrapping in their breeding grounds has increased and they face many other threats such as loss of habitat. For the sake of Falconry, we need to conserve wild Saker populations - populations which have supplied mankind with hunting partners for four thousand years.

To that end, research programmes are underway across much of the Saker falcon's range. Their primary goal is to identify the precise nature of threats to wild populations. Once the results are known, conservation programmes can target resources where they are most needed. Their final aim is to safeguard the future of the Saker falcon and, in so doing, Arab falconry itself.







DIET STUDIES How food availability

affects breeding success

HUNTING

BEHAVIOUR

STUDIES

PESTICIDE STUDIES

Research contaminants and

effect on wild population

ARCTIC PEREGRINE Breeding range

HEALTHY POPULATION OF ARCTIC **PEREGRINES** IN THE FUTURE



PRODUCTIVITY **ESTIMATES** the number of young

falcons produced every year

**MIGRATION** STUDIES Using leg rings and satellite tags



DIET STUDIES How food availability affects breeding success

PESTICIDE STUDIES

Research chemical contamination of wild peregrines and its affect on their breeding population

Monitoring wild falcon populations

### ARCTIC PEREG

Falco peregrinus calidus

MIGRATION, DIET AND BREEDING BIOLOGY OF ARCTIC PEREGRINES IN SIBERIA

Arctic peregrines are large, pale and highly migratory. Each year they travel from their nesting grounds in the Arctic to wintering grouds as far south as South Africa.

The aims of this collaborative project between The National Avian Research Center and the Wildfowl and Wetlands Trust are twofold. First, to gather essential scientific data on the breeding biology and diet of this falcon; and second, to trace the mgration routes and wintering grounds of the falcon. Without knowing the whole range of the falcon, any conservation programes could offer it only partial protection.



National Avian Research Center Abu Dhabi



HEALTH STUDIES Research biomedical profile of wild population

BREEDING **BIOLOGY AND** NESTING SUCCESS

**CITES** APPENDIX I **SPECIES** Internationally endangered

Why is it important to know where these falcons spend their winter, and the routes they take to get there? Because then we will know if they face dangers on their journey such as poisoning by pesticides, or habitat loss.

Scientists in Siberia discovered one wild female peregrine wearing sabooks. She must have been lost on a hunting trip, and found her way back to the breeding grounds. She was rearing a nest of three healthy young falcons

We fitted satellite tags to Siberian peregrines to trace their mysterious migration routes across Asia. We also have links with scientists in South Africa who are trapping arctic peregrines on the coastal dunes in the winter months.



One falcon was trapped by a falcon trapper in Pakistan. Other falcons, fitted with leg rings and microchips when young, like the birds below, were trapped in Abu Dhabi. Falconry in Arabia is reliant on the health of breeding falcon populations thousands of miles from the hot deserts of the Gulf states.







Monitoring wild falcon populations

### THE LUGGER FALCON

Falco iugger

### AN INTERNATIONALLY ENDANGERED SPECIES AFFECTED BY THE FALCON TRADE

The Lugger falcon is a small falcon but it is a close relative of the Saker and its numbers are declining in the wild. The reasons for this are poorly understood. Around 2000 are used each year as barak - decoy birds for trapping Sakers and Peregrines in Pakistan. Perhaps overtrapping is one reason. Other possibles include pesticide contamination or habitat changes affecting breeding success. This collaborative project between NARC and Falcon Foundation International, Pakistan, aims to discover the reasons behind the lugger's decline in Pakistan, and in so doing, identify conservation priorities for this rare species.



Falcon Foundation International, Pakistan



National Avian Research Center Abu Dhabi

### IMPORTANCE OF TRAPPING TO LOCAL COMMUNITIES

Any conservation plan must take into account the needs of local communities

#### PRODUCTIVITY ESTIMATES

the number of young falcons produced every year



HEALTH STUDIES
Research biomedical
profile of wild
population

HEALTHY POPULATIONS
OF
LUGGER FALCONS
IN THE FUTURE

BASELINE FOR FUTURE CONSERVATION PROGRAMME CITES
APPENDIX I
SPECIES
Internationally
endangered

DISTURBANCE
Assess pressures of
human population on
lugger breeding success



PESTICIDE STUDIES

Assess chemical contamination and its impact on lugger breeding success

Seeled lugger with



LUGGER Breeding range

TRAPPING

Assess numbers trapped and trapping's impact on the population

After luggers have been trapped they are kept by local dealers for weeks before they are sold to saker and peregrine trappers. They are kept in very poor conditions and many die of starvation and disease. The National Avian Research Center and Falcon Foundation International hold educational workshops which teach falcon trappers and dealers in Pakistan how to look after falcon properly. If fewer falcons die, fewer will need to be taken from the wild.

FFIP, NARC staff and falcon trappers at an educational

workshop for falcon trappers in Pakistan.

SUSTAINABLE YIELD ESTIMATES

Estimate of the maximum number of falcons that could be trapped without harming the wild population



### **CAPTIVE BRED FALCONS**

Top Hunting Falcons Produced by Selective Breeding

More Choice for Falconers

Good News for Falcons

Captive bred falcons are proving their worth at hunting camps - strong, fast falcons well-suited to life in the desert. But there is more to captive breeding than is immediately apparent. It has active conservation and research benefits - cutting down on the number of wild falcons that need to be trapped and safeguarding the best falcon bloodlines for the future. A sales agency would ease the problems currently associated with buying hawks.

### IMPROVING SUPPLY AND CHOICE OF FALCONS

- Streamlining importation procedures
- Stabilising prices
- Encouraging sterilisation of hybrids to prevent breeding with wild falcons
- Encouraging microchipping and health records
- Breeders and falconers together working to produce best birds
- Improving care of falcons in transit



Captive bred gyrfalcons



saker is measured



From traditional types of saker to the newest hybrid falcons, these captive bred birds carry fewer diseases, have stronger feathers and usually moult faster than wild-caught falcons.

### SALE OF CAPTIVE BRED FALCONS IN THE MIDDLE EAST

- Reduces the problems of buying falcons one by one from private breeders
- View the falcons in Arabia before buying
- Specially designed sales rooms

#### **SALES AGENCY**

- Purchases top falcons from selected breeders worldwide
- Personally examines quality of parent stock and provides pedigrees
- Ensures falcons are reared and handled properly for falconry
- Attends to all import/export documentation of falcons
- Attends to veterinary checks and health certificates for falcons
- Pays the breeders for their birds at time of export
- Attends to preparation of falcons for travel and travel boxes
- Arranges flights, custom checks and collection of falcons
- Fits sabooks and burqa to falcons, removes travel tapes
- Provides a microchipping service and health check on arrival
- Provides a guarantee of fair dealing on each falcon

#### AT THE SALES ROOMS

- Falcons arrive in October
- Largest selection of top falcons in the world available for viewing
- Falcons can be compared with each other, making selection easier
- Falcons can be examined before purchase
- Payment made at time of purchase









AT THE END OF THE SEASON

- Moulting service with full health care on site
- Surplus falcons may be brought back from the falconer

#### HUNTING



HEALTH CARE TRAINING

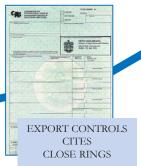
#### PROVIDE MANAGEMENT & TO DEALERS

- TRAPPING QUOTA IN EACH COUNTRY
- TRAPPING FEE
- PERMIT
- GOVERNMENT MICROCHIPS
- EXPORT CONTROLS



- Health checks on falcons
- CITES checks ensuring falcons legally obtained
- PIT microchips implanted
- PIT central database
- Hybrid falcons sterilised to prevent harm to wild population





• CHECK PREMISES

LICENSE IMPORTERS



**ENHANCE** BREEDING WITH ARTIFICIAL NEST

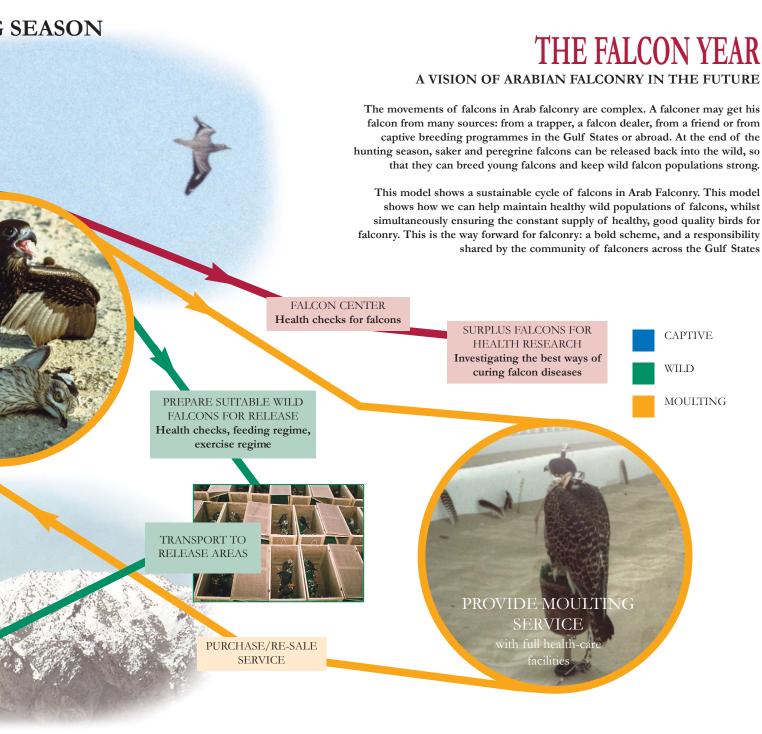
SITES

In habitat which would support falcons but with no places to nest

> TOP BIRDS SELECTED FOR BREEDING STOCK Ensuring top-quality captive bred falcons in the future

SUPPORT WILD POPULATIONS





**SEASON** 

A FORUM FOR EXCHANGE OF INFORMATION AND TECHNICAL DEVELOPMENTS

> PUBLISHING QUARTERLY NEWSLETTER - FALCO -



HOLDING WORKSHOPS AND CONFERENCES



PUBLISHING SCIENTIFIC PAPERS
AND PROCEEDINGS

SUPPORTING EDUCATIONAL PROGRAMMES

CENTRAL DATABASE FOR THE MICROCHIPPING SCHEME

# THE MIDDLE EAST FALCON RESEARCH GROUP

Founded 1994



A CONCENTRATION
OF EXPERTISE FROM AROUND
THE WORLD

SCIENTIFIC ADVISORY SERVICE OFFERED TO ARABIAN FALCONERS UNION



A NETWORK FOR ALL RAPTOR BIOLOGISTS AND VETS WORKING IN THE MIDDLE EAST

WORKING TO INCREASE INTERNATIONAL UNDERSTANDING OF ARAB FALCONRY

#### WELFARE OF FALCONS

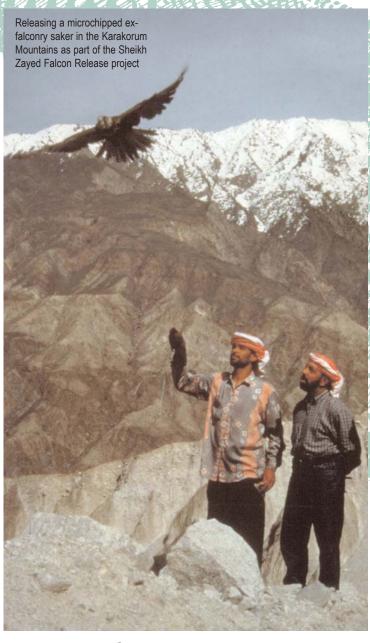
- Promoting research into:
- Diseases
- Health care
- Breeding
- Management

#### RESEARCH ON WILD FALCONS

- Promoting field studies on:
- Falcon migration
- Taxonomy
- Morphometrics
- Breeding biology
- Ecology
- Sustainable use

LIAISING BETWEEN
COLLABORATIVE RESEARCH
PROGRAMMES





(Actual size)



MICROCHIP OR PIT TAG

Fieldworkers insert chips into baby falcons in Kazakhstan, Mongolia, Siberia, Pakistan and other range countries



MICROCHIPS DETECTED BY SCANNERS TO MIDDLE EAST FALCON RESEARCH GROUP'S CENTRAL DATABASE

Breeders insert chips

Vets insert chips a falcon hospitals

Falconers

### THE MICROCHIPPING (PIT) SCHEME

#### STUDYING WHAT HAPPENS TO WILD AND CAPTIVE FALCONS

A PIT is a tiny microchip implanted harmlessly under the skin of a falcon. Each PIT has an unique number which can be read by a special scanner. This allows the movements of both wild and captive-bred birds to be studied in detail. This scheme has already provided much valuable information on the movements of falcons. It could be integrated with conservation programmes on wild falcons to ensure that no illegally trapped falcons can be exported or sold. This would have immense conservation benefit for wild falcon populations.

#### THE SHEIKH ZAYED FALCON RELEASE

RELEASING EX-FALCONRY BIRDS BACK TO THE WILD

Collaborative project between the MEFRG and the Environment & Wildlife Management Private Department for H. H. Sheikh Zayed bin Sultan Al Nayhan.

His Highness Sheikh Zayed asked that his own falcons be used to study the ability of released ex-falconry birds to readapt to life in the wild, and to investigate their migration and breeding patterns. Every year since 1995, around 80 saker and peregrine falcons undergo health tests and a training programme before release. Some are fitted with satellite tags so their movements can be tracked in detail.

### SUSTAINABLE HUNTING FOR THE

#### **FUTURE**

#### A RESPONSIBLE GIFT FOR OUR CHILDREN

- Make International Agreements on Hunting and Conservation
- Map the hunting areas
- Identify the organisations responsible for each hunting area
- Make written Hunting Agreements:
- By areas
- By bag limits
- By seasons
- Produce funds from hunting rents to help pay for management

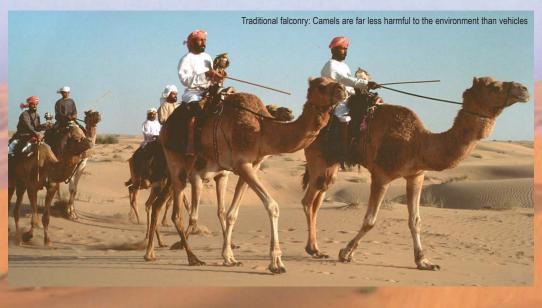






#### **OVERSEAS HUNTING GROUNDS**

- Make long term agreements for sustained management and hunting with recognised groups, eg parties of falconers' associations
- Link up with Wildlife Managers to promote sustainable use of areas
- Provide financial input for management, research and the local economy





#### **HOME HUNTING GROUNDS**

- Increase hare numbers
- Provide sufficient quarry for falconers to hunt near home successfully

#### **CONTROL HUNTING**

#### Habitat quality

- Seasonal weather
- Numbers of prey bred
- Numbers of prey arrived for winter
- Number of prey harvested

#### MONITOR

### THE HUNTING GROUNDS

Many of the traditional hunting grounds in the Gulf States have suffered greatly in recent years. Overgrazing, erosion and disturbance from vehicles have meant that in many areas, traditional quarry species are rare or can no longer be hunted by falconers.

Houbara in other countries are also under threat from overhunting, habitat loss and disturbance. This model shows ways in which falconers and others concerned can protect the fragile ecosystems through scientific research and practical conservation programmes, ensuring there is enough land and quarry for all falconers in the future

- All factors affecting wintering quarry numbers
- Link with research on breeding areas
- Study migration routes
- Estimate local quotas for next season's harvest

#### RESEARCH

- Prevent disturbance on hunting ground
- Reduce grazing pressure
- Increase natural food supply
- Increase plant cover to give concealment from predators and disturbance
- Control predators where necessary
- Educate local people to care for game needs
- Provide financial encouragement and employment to local people
- Encourage traditional use of camels and salukis
- Ban cars from some of the hare hawking grounds





- Carry out local monitoring
  - Prevent live trapping and illegal killing
    - Supervise releases Predator control if needed, e.g. foxes
    - **Assist Hunting Parties** 
      - - Assist Research



WARDEN