

# Wildlife Conflict : Restoration of Asiatic Black Bears in Jirisan National Park

2013. 11.

**Kim Seondu**

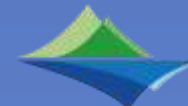
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**Nature, Our Future!**

자연, 우리의 미래



**국립공원관리공단**  
KOREA NATIONAL PARK SERVICE

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- II** **General Status of Species Restoration Technology Institute**
- III** **Restoration Project**
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# Conservation of Korean Biological Resources & Recovery of Baekdudaegan(corridor)

Ecological Harmony  
& Balance  
(Biodiversity)

Proliferation and restoration of endangered wildlife

Endangered wildlife restoration, Security of native species through systematic, scientific inquiry and study

※ Environment Ministry

“Endangered Wildlife proliferation and restoration plan”(2006)

I

Status, Purpose and Background of Restoration Project

# Medium and long term Action Plan on Endangered Species Restoration

Endangered wildlife proliferation and restoration plan (June, 2006) :  
54 species selected

**Mammals** 7 species Asiatic black bear, **F**ox, **G**oral, **M**usk deer, **E**urasian Lynx, **S**ea lion, **M**anchurian sika deer

**Birds** 1 species **W**hite stork

**Reptiles** 1 species **R**eeve's turtle

**Insects** 3 species **L**ong-horned beetle, *Aporia crataegi*, *Gymnopleurus mopsus*

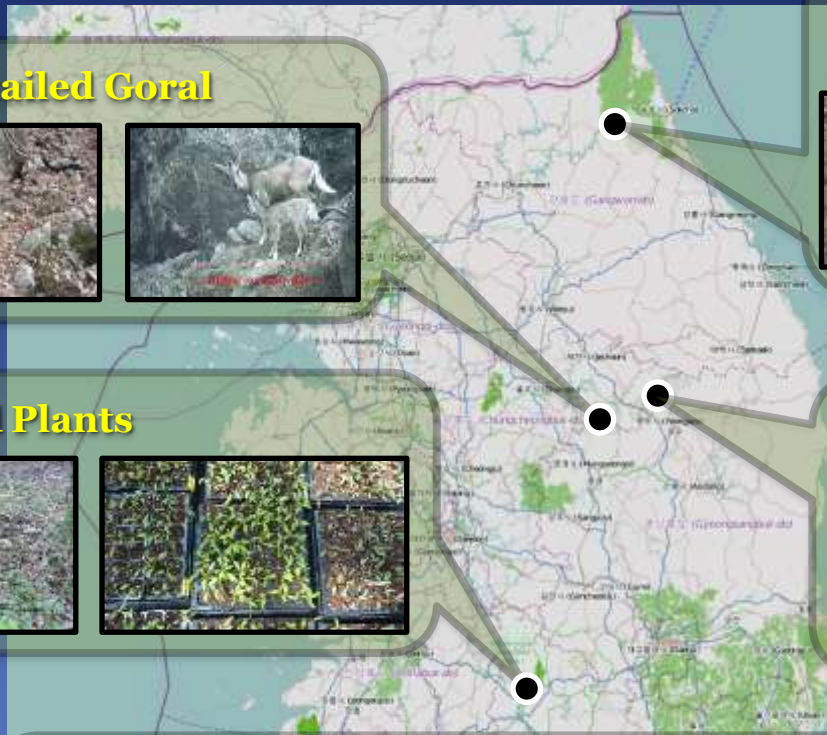
**Fishes** 6 species *Pseudobagrus brevicorpus*, *Liobagrus obesus*, *Pseudopungtungia nigra*, *Acheilognathus somjinensis*, *Iksookimia choii*, *Koreocobitis naktongensis*

**Plants** 36 species *Cymbidium macrorrhizum*, *Neofinetia falcata*, *Cypripedium japonicum*, etc.

I

Status, Purpose and Background of Restoration Project

# Location for species restoration



## Long-tailed Goral



## Research on Endangered Species and Security of native species



## Endangered Plants



## Fox restoration



## Asiatic black bear



## History

- **May, 2002** : Inauguration of Asiatic black bear management team (Mt. Jiri)
- **July, 2006** : Goral restoration team established (Mt. Wor-Ak)
- **November, 2009** : Northern team newly established (Mt. Seor-Ak)
- **July, 2010** : Wild animal medical center open (Mt. Jiri)
- **August, 2011** : Endangered plant restoration center open (Mt. Deog-Yu)
- **November, 2011** : Fox restoration team established (Mt. So-Baek)
- **May, 2012** : Extension to **S**pecies **R**estoration **T**echnology **I**nstitute

# Main Project

- Asiatic black bear restoration project at **Mt. Jiri**
- Goral restoration project at **Mt. Wor-Ak**
- Fox restoration project at **Mt. So-Baek**
  
- Endangered plant restoration project
  
- Rescue and Rehabilitation of Wilde animals, disease research



**Research & Monitoring project on securing native species**



## Main Facilities



### SRTI, main building

direction on overall project of restoring endangered species



### Ecology Learning Center

education, monitoring

### Ecological Museum

Education & promotion, hold specimen



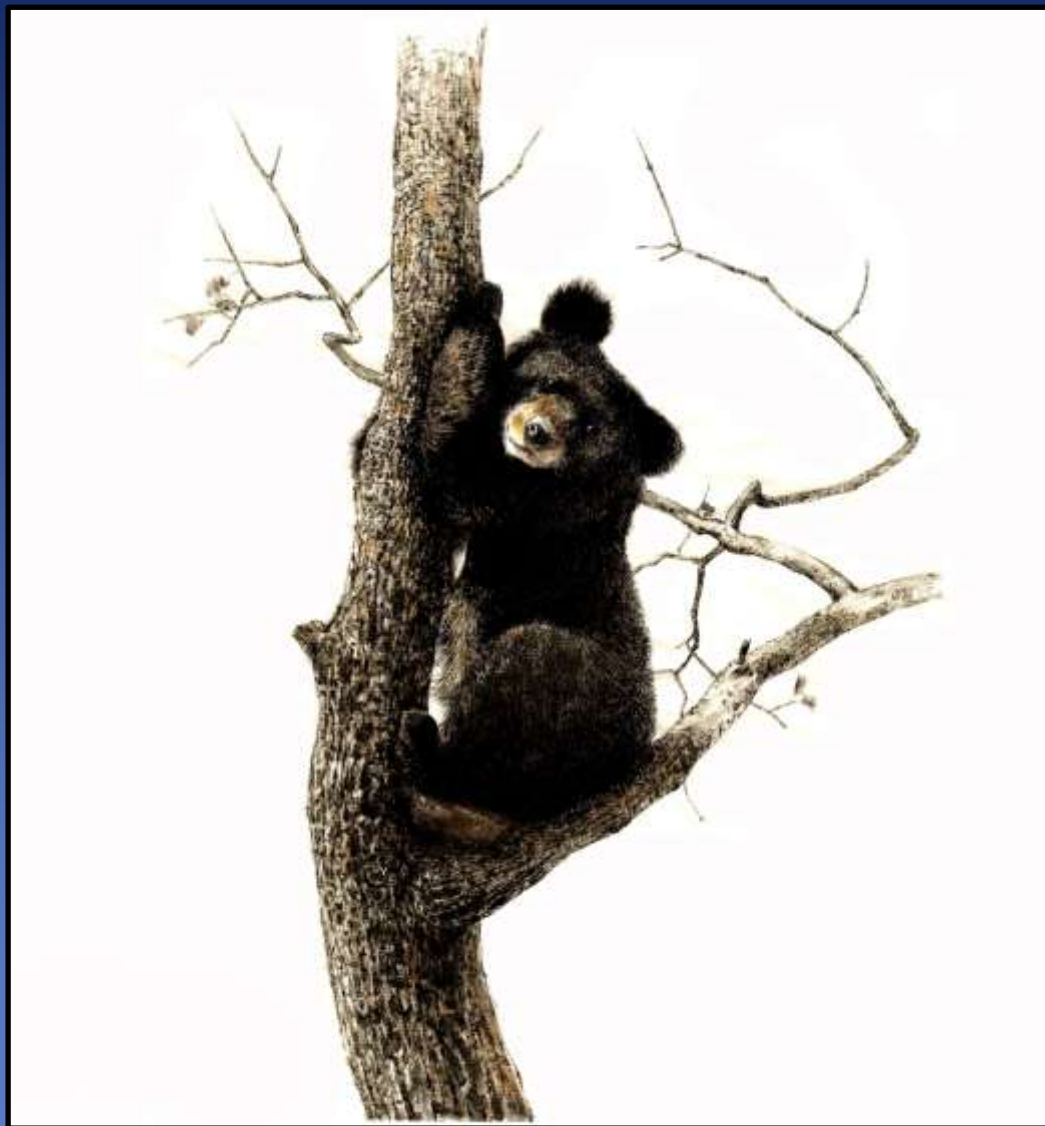
### Wild Animal Medical Center

rescue, treatment, rehabilitation



# Asiatic Black Bear

*Ursus thibetanus ussuricus*



III

Restoration Project

**Asiatic Black Bear**

**Weight** : Femail average 120kg, Male 150kg

**Life Expectancy** : 15 years in the wild(maximum 33 years in zoo)

**Status** : Endangered Species I

Mammalia > Carnivora > Ursidae  
**Ursus thibetanus**  
 Asiatic Black Bear  
[Download Spatial data](#)  
 G. [Baron] Cuvier, 1823

[Back to Red List Page](#)

- Extant (resident)
- Probably Extant (resident)
- Extinct

BROWSE IMAGES  
[ARKive \(335 found\)](#)

Wildlife Conservation Society 2008. Ursus thibetanus. In: IUCN 2013. IUCN Red List of Threatened Species. Version 2013.1

IUCN SSC  
 Species Survival Commission



## Goal (Asiatic black bear)

**Asiatic black bear population at Mt. Jiri  
increase to more than Minimum Viable Population (50)  
target year : 2020**

2004 ~ 2011 (8years)

5 times imported (32 bears)

**Wild birth 11 bears (after 2009)**

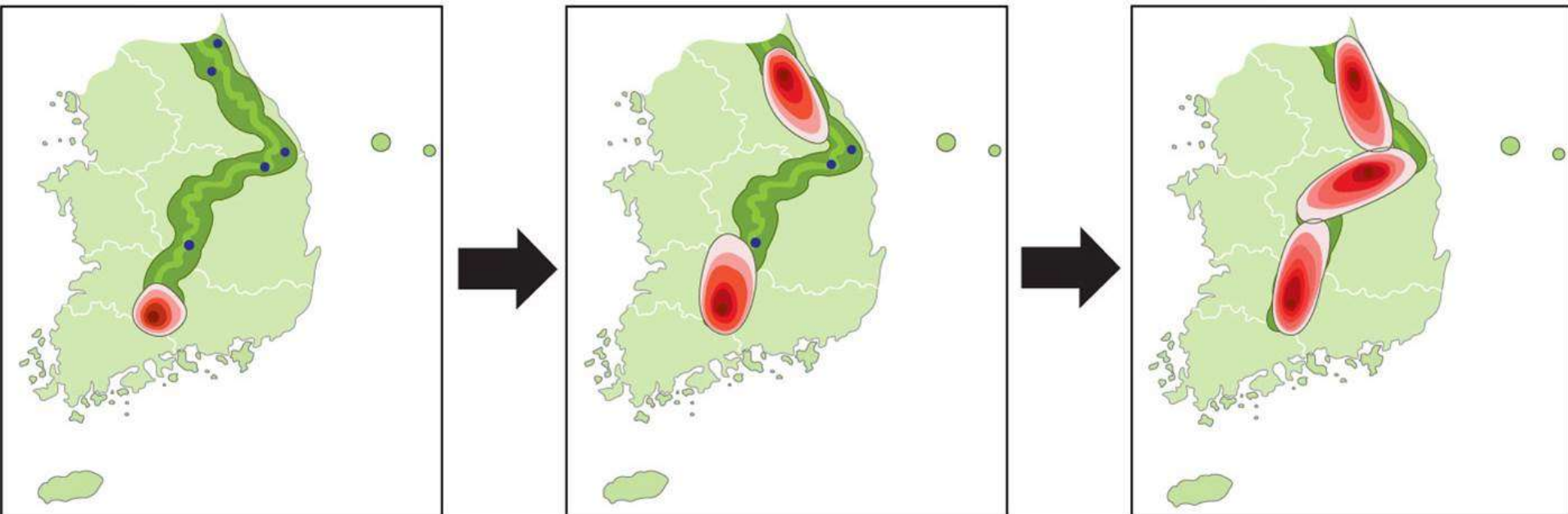
Seoul Zoo 4 bears (2007, 2009)

**Captive birth 3 bears (2010, 2013)**



**Around 5 Wild ABB  
at Mt. Jiri National Park**





Restoration of ABB



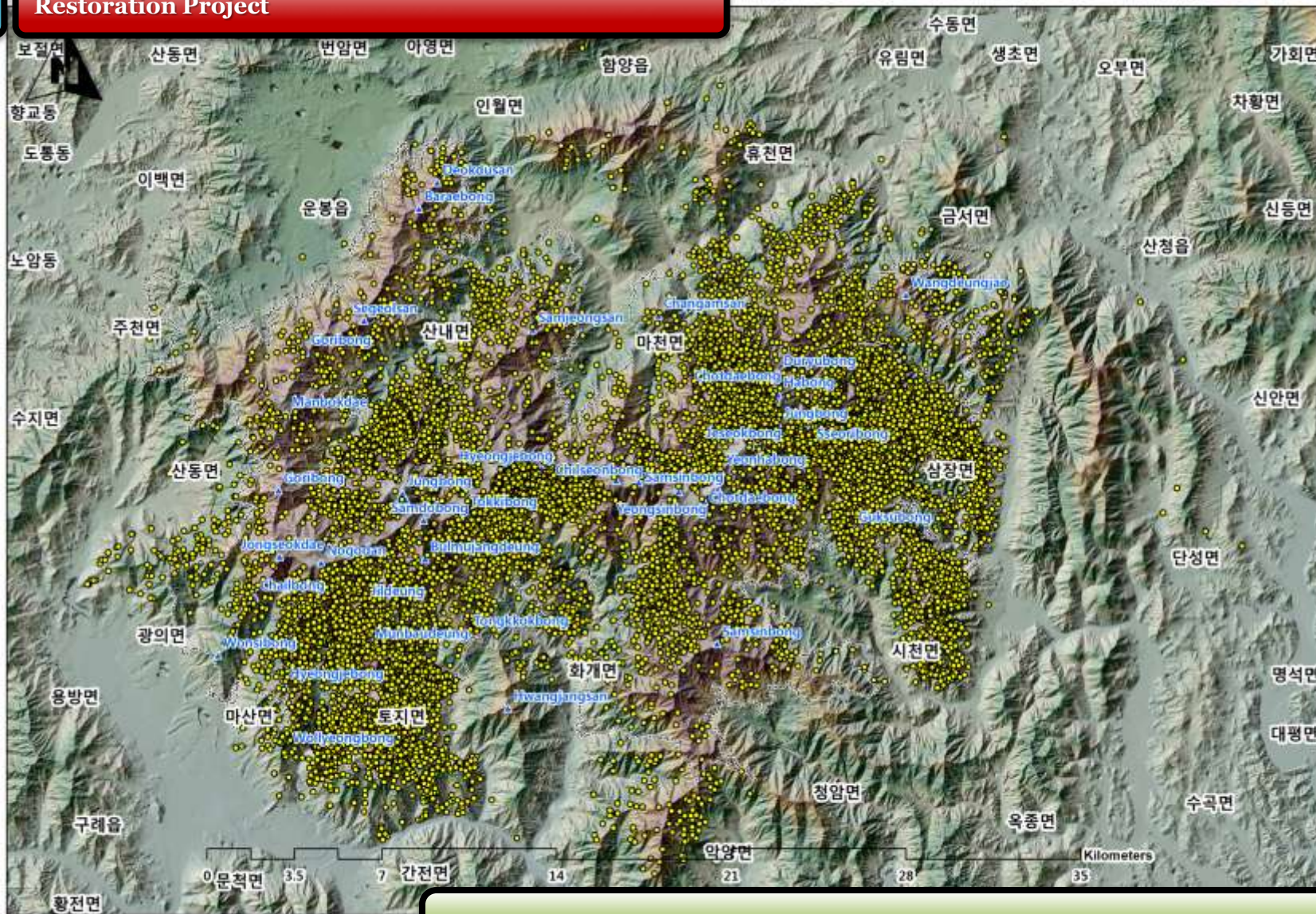
Restoration of latent vegetation on the Baekdudaegan(corridor)



Connection of the fragmented habitat (Good habitat for the various species)

III

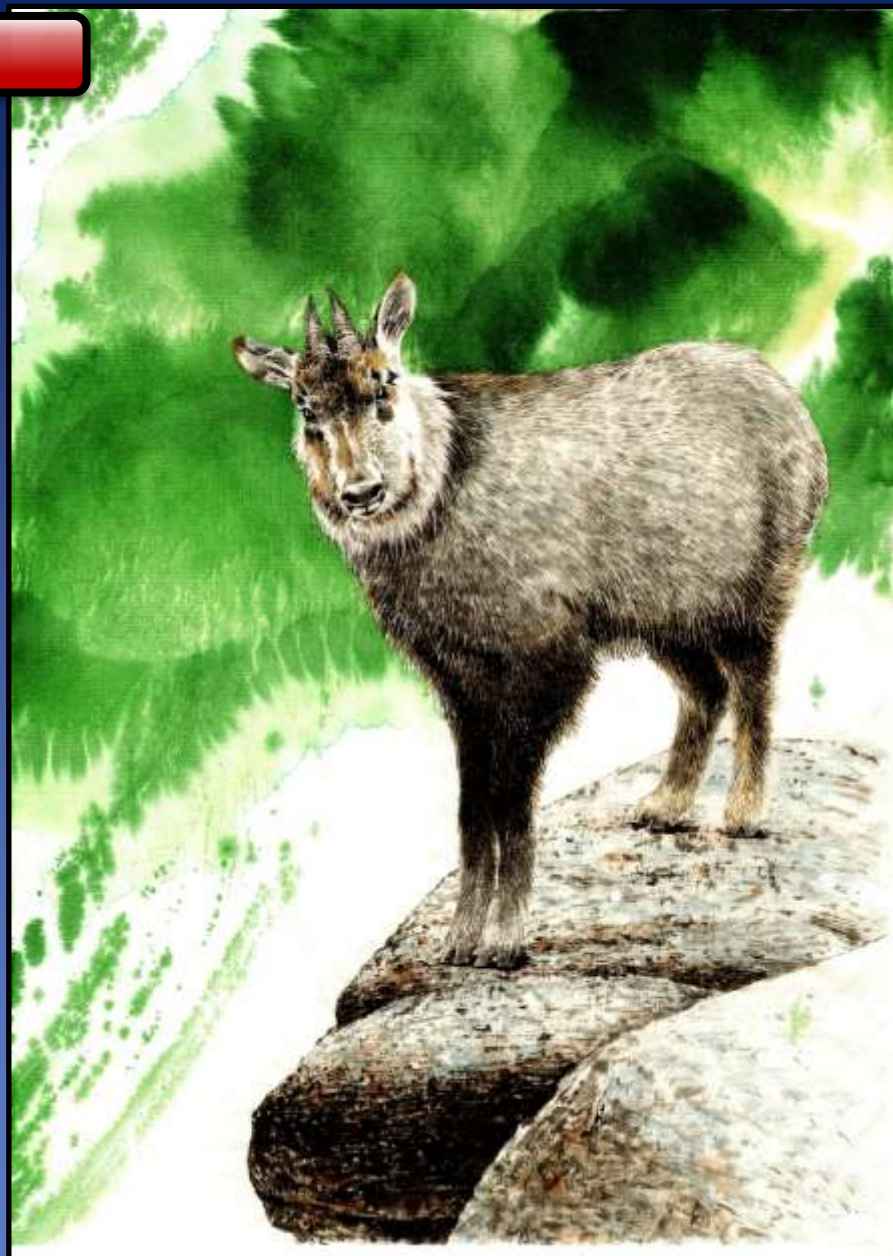
Restoration Project



Bears Activity (2004 ~ 2012) : **23,423** location data

# Goral

*Naemorhedus caudatus raddeanus*



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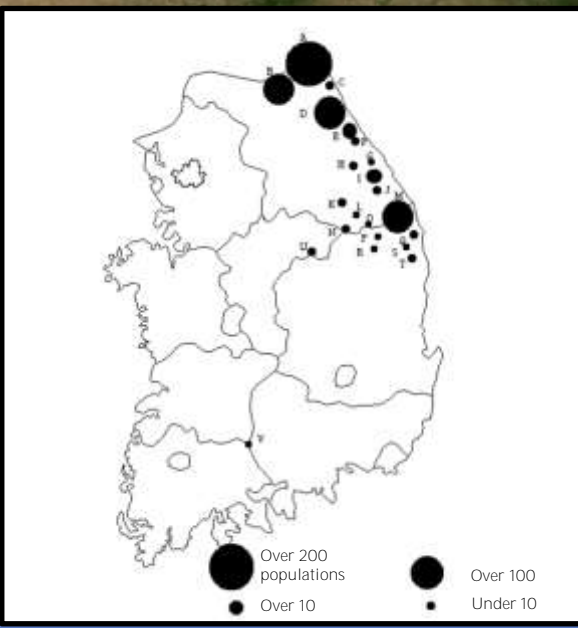
Restoration Project

# Long-tailed goral

**Weight** : under 30 ~ 45kg

**Life Expectancy** : 10 years in the wild

**Status** : Endangered Species I



# Goal (Long-tailed Goral)





## Long-tailed Goral population



- Mt. Wor-Ak : maximum 43 populations
- Mt. Seor-Ak : minimum 232 populations at 4 areas (10-year research)
- Mt. Oh-Dae : Turo-bong, Noin-bong and 5 more areas
  - About 24 populations under intensive research (presumption)

## Long-tailed Goral Individual Identification



## Security of Native Species, Mt. O-Dae & Seor-Ak



III

Restoration Project & Future Plan



**Fox**

*Vulpes Vulpes*

**Red Fox**  
**Weight** : 4~7kg  
**Life Expectancy** : average 3 years in the wild, 12 years in zoo  
**Status** : Endangered Species I

## Expansion of Restoration Species (Fox)

- Success of fox proliferation (Seoul Zoo)
- Security of fox as reintroduced species (DNA test)
- Result of research on fox food resources → Mt. So-Baek
- planning 12-year test on foxes at Mt. So-Baek



IV

Our efforts and performances



Management



IV

Our efforts and performances



Control group



Experimental group

Research







**International Bear News**  
 Quarterly Newsletter of the  
 International Association for Bear Research and Management (IABRM)  
 and IUCN/SSC Bear Specialist Group  
 February 2009 Vol. 18 no. 1

Hope returned for Asiatic black bears in South Korea: See the story on page 8.

IABRM website: [www.bearblog.org](http://www.bearblog.org) [www.bearspecialist.org](http://www.bearspecialist.org)

Submission

**International Bear News**  
 Quarterly Newsletter of the  
 International Association for  
 Bear Research and Management (IABRM)  
 and the IUCN/SSC Bear Specialist Group  
 May 2011 Vol. 20 no. 3

IBRM website: [www.bearblog.org](http://www.bearblog.org) [www.bearspecialist.org](http://www.bearspecialist.org)

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**Bear Specialist Group**  
 Molecular Genetic Evidence Supports Reintroduction Program of the Asiatic Black Bear in South Korea

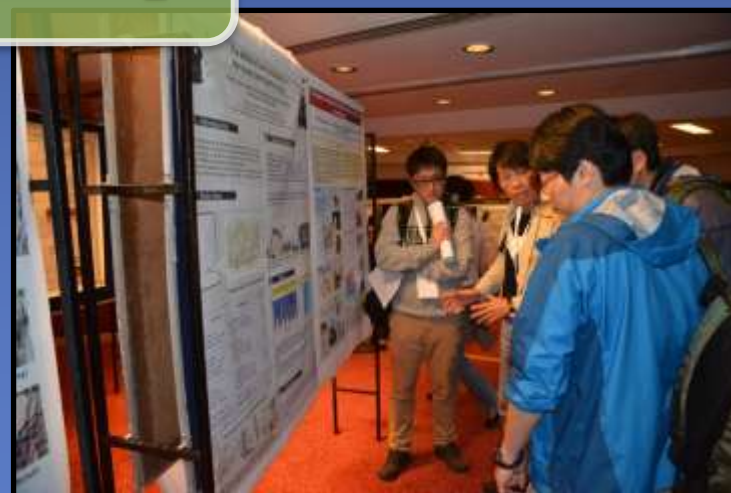
IBRM website: [www.bearblog.org](http://www.bearblog.org) [www.bearspecialist.org](http://www.bearspecialist.org)

**Bear Specialist Group**  
 The Status of Asiatic Black Bears Transplanted into Irisan National Park, South Korea

IBRM website: [www.bearblog.org](http://www.bearblog.org) [www.bearspecialist.org](http://www.bearspecialist.org)



Partnership



IV

Our efforts and performances



Illegal traps



IV

Our efforts and performances



Education



IV

Our efforts and performances



Coexistence





Thank you  
For your attention



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