# CONSERVATION STATUS OF THE BALKAN LYNX IN MACEDONIA

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The Balkan Lynx Recovery Programme is a partnership project between Macedonian, Albanian and international institutions<sup>1</sup>, aiming to save the Critically Endangered Balkan Inya<sup>2</sup> with a three step approach: (1) Compile baselime data allowing to develop (2) a range-wide Conservation Strategy that will be implemented by means of (3) national Action Plans. The survival of the population Lynx should be secured through species conservation actions, a series of protected areas, and improved wildlife management within and outside protected areas.

Distribution and population size of the Balkan lynx
The main distribution area of the Balkan lynx population is along the mountain range that forms the border between Macedonia and Albania. A small part of the population is believed to live in Montenegro and Kosovo. The estimated size of the Balkan lynx population in all range countries is less than 100 mature individuals, making the Balkan lynx Critically Endangered according to IUCM Red List criteria. This is the most threatened autochthonous population of Lynx lynx (Grettenmoser et al. 2000). The population size of Balkan lynx in Macedonia was guessed to be 30-35 mature individuals (Hristovski 2001).

### Method

The aim of the Baseline Survey was to assess the distribution and relative abundance of lynx and potential prey species in Macedonia by means of interview techniques. The potential lynx area in Macedonia was divided into 73 grid cells of 10 x 10 km. In each cell, at least one village was randomly selected to be visited. An average number of 8 people were interviewed per grid cell.

In Macedonia, a total of 154 villages were visited and 553 people were interviewed according to a extensive questionnaire. Additionally, lynx

observations such as sightings, tracks or kills were recorded in a special form. The results of the Baseline Survey are compiled in the large

## Balkan lynx "Hard facts"

Several evidence indicating the presence of lynx, so called "hard facts", were collected during the Baseline Survey. These "hard facts" include: photos of lynx, lynx tracks, stuffed lynx and prepared lynx pelts (see numbers in the map and photos).



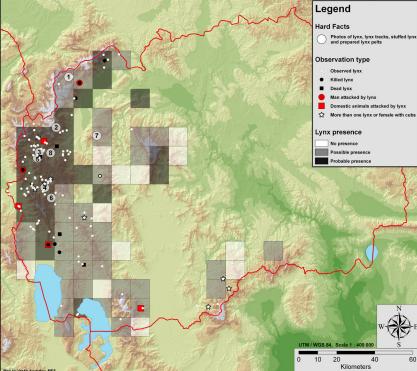
1 Lynx shot near village Veshala on Shar Planina Mt., 15-20 years

Tracks from a single lynx near village Volkovija in Mavrovo NP,

1 March 2007



2 Pelt of lynx shot by a hunter near on Shar village Dolno Jelovce Planina Mt. in winter 2002



Map with the "hard fact" lynx observations and lynx presence in Macedonia for the past 15 years. The information was acquired from the questionnaires conducted in the frame of the Balkan Lynx baseline survey. The locations are approximate, due to the limited precision of the site descriptions. The data on lynx presence refers to the places where questionnaires were conducted, while the "hard fact" data and the data on lynx observation refers to the exact locations



(4) Lynx photo taken in village Lazaropole Mt., Mavrovo NP in summer 1999

Two lynx cubs photographed at the locality Jama on Stogovo Mt. on 15 June 2003



Project partners are the Macedonian Ecological Society (MES), the Society for Protection and Preservation of Natural Environment Conservation and Management of Camirosen is Neutraliand (KORA) the European Nature Heritage Fund (Euronatur) and the Norwegian Institute for Nature Research (NINA), Main founders are the MAVA Foundation (Switzerland) and Norwegian Research Council, started in summer 2008 and it will sat until the end of 2009.

\*The Balkan lynx was first described as its own subspecies by Bursech in 1941 (Lynx bynx balcanicus). Later, Minch made morphometric investigations on 29 bynx specimens from the morphometric investigations on 20 bynx specimens from the distinguish the Balkan population from the nominal and Carpathain ofnss. he proposed to classify the Balkan bynx as its own subspecies and changed the name to Lynx lynx marrior. Although this classification was arguable, recent preliminary genetic analyses (Brethermoser-Wistern and Chosen-full 2005) made on 11 samples show that the Balkans were taken from specimens from the Museum of Natural History in Skopie, Macedonians from the Museum of Natural History in Skopie, Macedonians in Skopje, Macedonia.

7) Pelt of lynx, shot on Suva Gora Mt.,

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Mirich, D. 1978. Lynx lynx martinoi ssp. nova (Carnivoa, Mammalia) . Neue Luchsunterart von der Balkanhalbinsel. Bulletin de museum d'histoire naturelle, Belgrade, Serie B, Livre 33, 29–36.











