

## **Game and Fauna Service**

The Game and Fauna Service (GFS) of the Ministry of Interior is responsible for wildlife conservation in Cyprus.

The GFS is specifically responsible for the protection and management of all game and wild birds. Also it is responsible for the conservation of the endemic Cyprus Mouflon *Ovis orientalis ophion*.

# Why do we need wildlife monitoring?

- 1. To obtain a reliable estimate or index of the population size of a particular species and monitor its demographic parameters
   (breeding success, age-specific survival, movements)
- 2. To assess the conservation value of an area in order to receive legal protection

3. To assess whether applied wildlife management is beneficial to target species

 4. Information on ppln size of individual species can make us focus on those species in need of attention (rare, endangered, declining, etc).

- 5. Surveys combined with harvest estimates help wildlife conservation agencies monitor game species, set seasons, impose restrictions, quotas, etc.
- Monitoring can help us estimate the ppln trend of a particular species over time.

## Monitoring can help identify and quantify threats



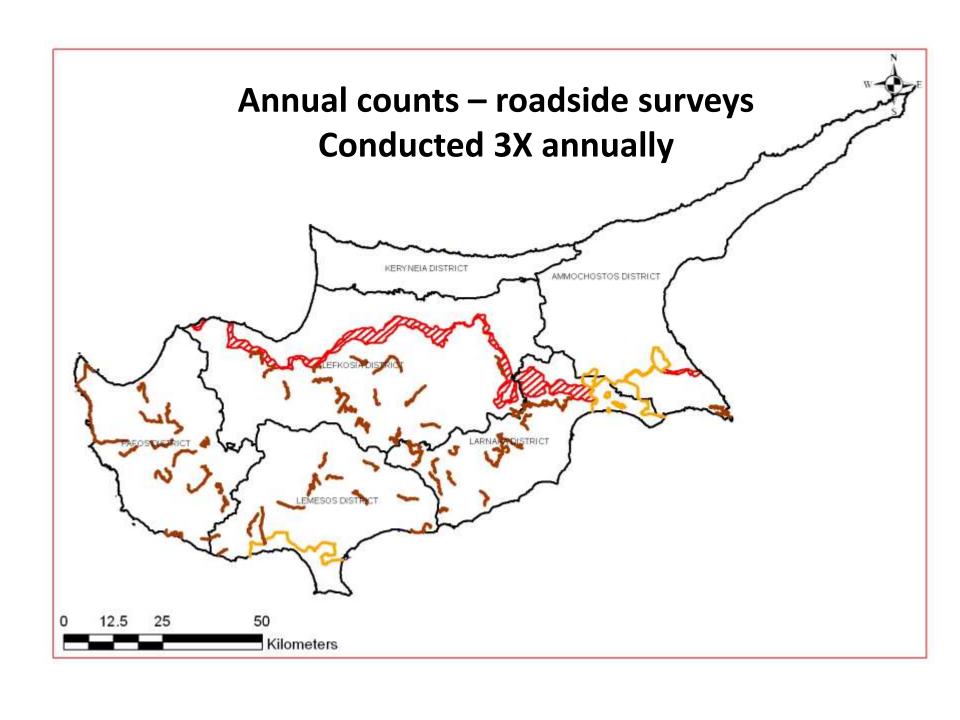
## **GFS** surveys

- Annual island-wide counts
- Bird surveys in SPAs (Troodos mountains, Pafos forest, river valleys, etc)
- Resident raptor breeding surveys
- Water bird counts (monthly wetland monitoring)
- Xmas count (annual census of all wetlands on the same day)
- Water bird breeding surveys
- Species-specific surveys
- Game Harvest surveys
- Cy mouflon monitoring



All Species are counted: (Annex I sp., game, farmland birds, raptors)

Nicolaos Kassinis, Christos Mammides. Winter bird surveys in Cyprus, 2007–2016. Analysis of the population trends. Bird Census News 2015, 29/1–2: 37–45. Journal of the European Bird Census Council

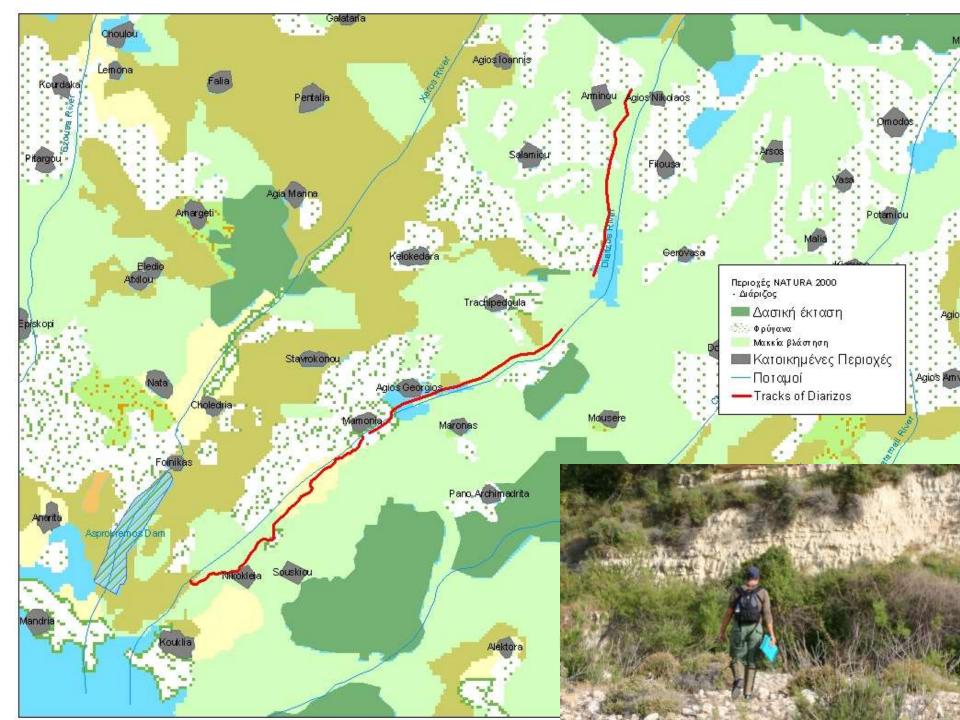








SPA bird monitoring is carried out for selected areas with special interest in the population status and trends of trigger species (Annex I) spp.



#### "CONSERVATION MANAGEMENT IN NATURA 2000 SITES OF CYPRUS" LIFE 04 NAT/CY/000013

Παρακολούθηση ειδών ορνιθοπανίδας του Παραρτήματος Ι της Οδηγίας 79/409/ΕΚ σε 5 περιοχές του Δικτύου ΦΥΣΗ 2000 της Κύπρου: Κάβο Γκρέκο, Αλυκές Λάρνακας, Κοιλάδα Διαρίζου, Εθνικό Δασικό Πάρκο Τροόδους και Βουνί Παναγιάς



Οκτώβριος 2008



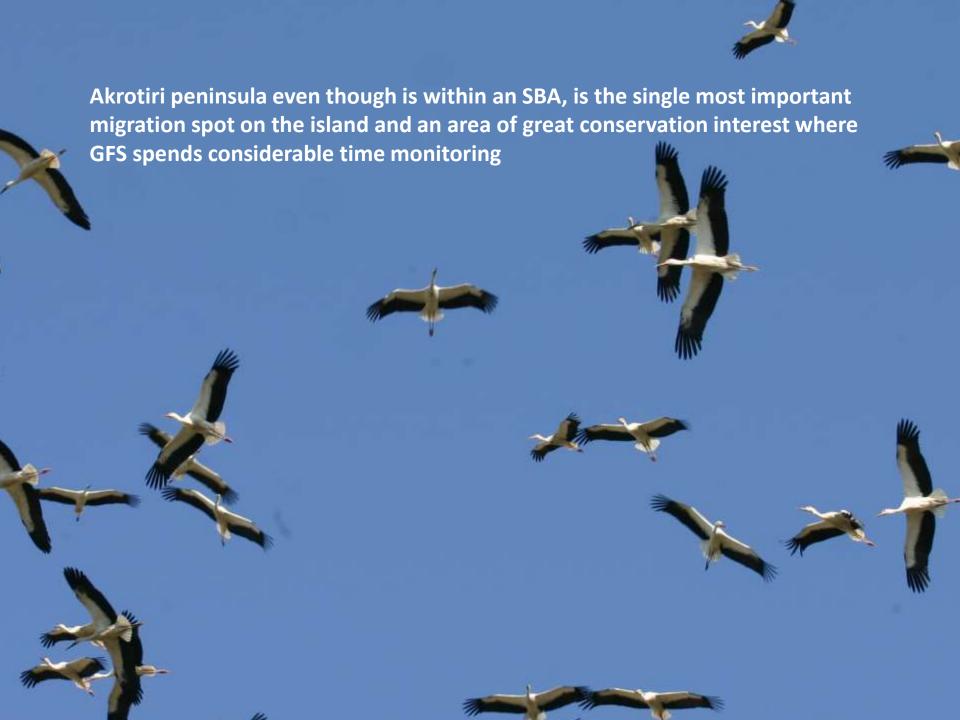






Bird Monitoring report LIFE 04 NAT/CY/000013 Conservation Management in NATURA 2000 Sites of Cyprus



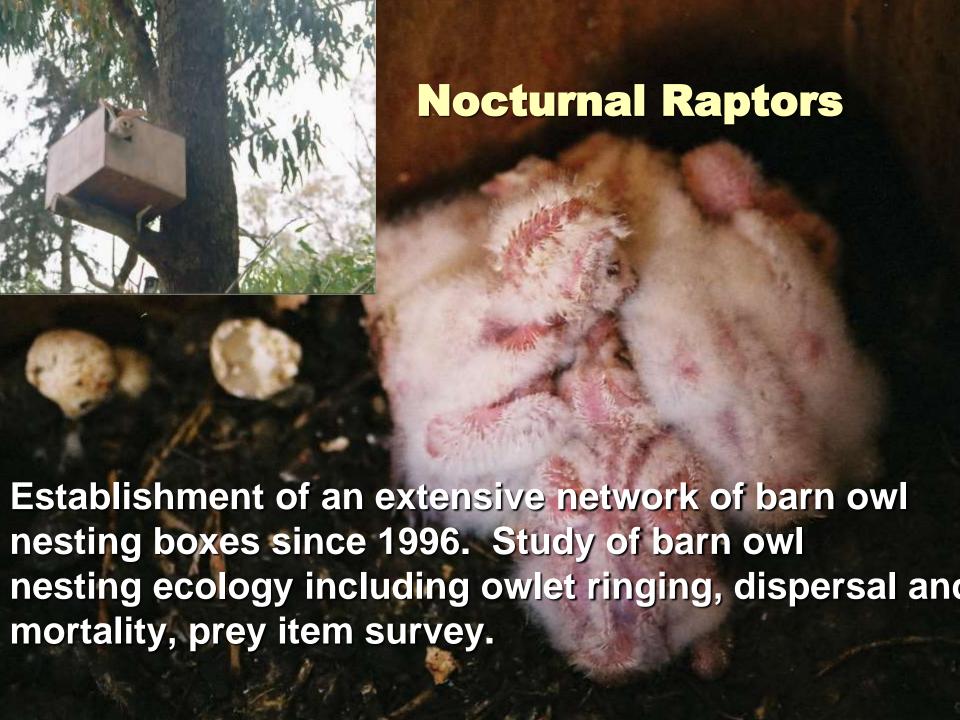




Raptors: Population census for occupied territories / nesting pairs for the larger, resident birds of prey such as Griffon Vulture Gyps fulvus, Bonelli's eagle Hieraaetus fasciatus, Long-legged Buzzard Buteo rufinus Goshawk Accipiter gentilis and Peregrine Falcon Falco peregrinus. Nesting and feeding ecology for the abovementioned species.

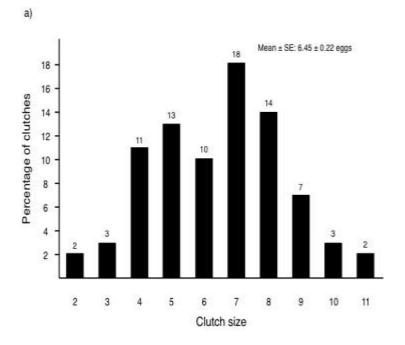


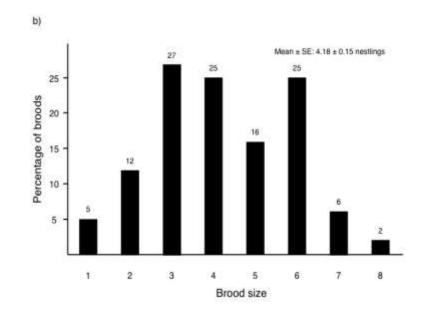




### Barn owl reproduction in Cyprus

Frequency distribution of clutch sizes (a) and brood sizes (b) in Cyprus barn owls.





<u>From:</u> Nicolaos Kassinis & Alexandre Roulin (2017): Reproduction of the Barn Owl (Tyto alba) in Cyprus (Aves: Strigiformes), Zoology in the Middle East.



Water bird counts (monthly monitoring of all major wetlands)
Xmas count (annual census of all wetlands at the end of each year)

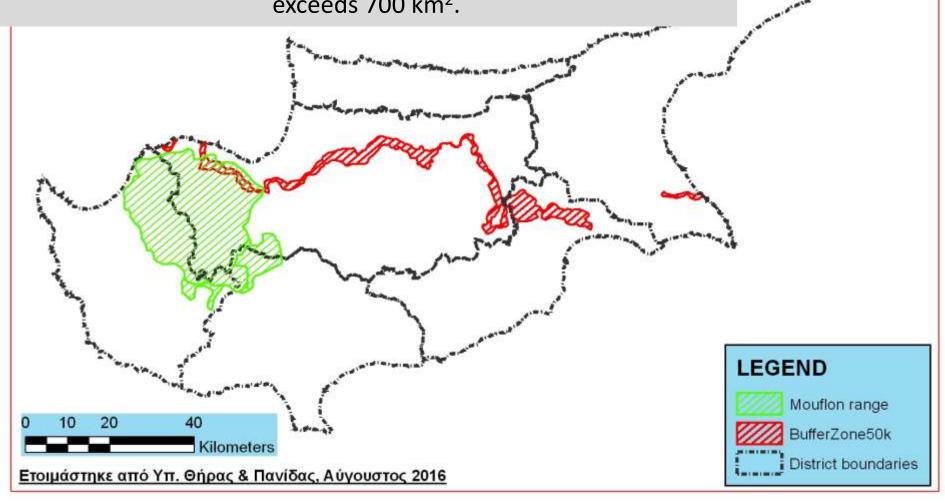


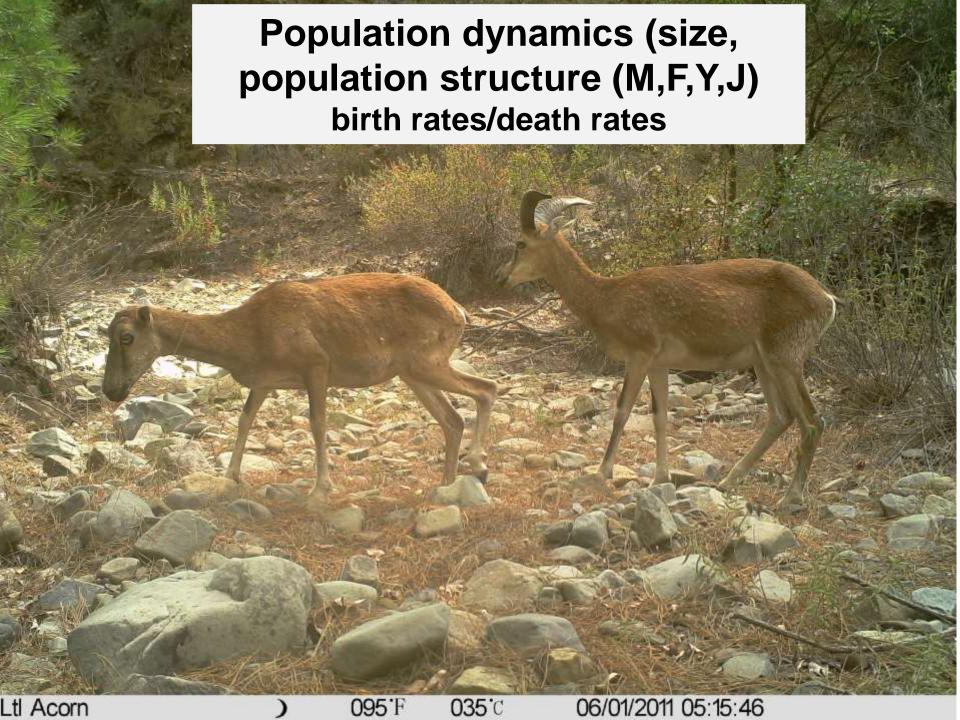






Mouflon has expanded their range from their Pafos forest stronghold eastwards to areas of Troodos National Forest during the last decade. Also small bands estimated at a few hundred are found in areas not controlled by the Cyprus Government, north of the Pafos forest. Its current geographical coverage of the island exceeds 700 km².







Fall counts are carried out since 1997 to have an estimate of mouflon numbers and distribution. Latest surveys indicate a relatively stable mouflon population of 2574 ± 599 individuals. The ratio of rams: ewes: yearlings: lamb for fall counts was 96:100:35:13 για το 2014, 90:100:52:29 για το 2015 και

74:100:31:19 για το 2016



#### **Threats**

Livestock increase within mouflon range (disease transmission, competition for forage and scarce water resources)











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IAS in Cyprus...



Illegal release of wild boar in Troodos mtns late 1990s. Animals bred in the wild and spread in most of Troodos NP. All animals were removed by trapping and shooting.





