



## **SOME THREATENED AND RISKED INSECTS IN THE REGION OF SHKODRA AND MALESIA E MADHE**

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### **SYNOPSIS**

Insects are the most diversified group in the living world. Conserving values of this diversity means first of all preserving threatened and risked species. Today in Albania we have two editions of Red Books (Misja 1997, Misja & co2006) where are included also threatened and risked species. It's clear that for an effective conservation of these species, we need lots of data, especially on their habitat and on the situation of their population. Exactly in this article, are presented data on 50 threatened and risked species in the Region of Shkodra and Malesia e Madhe, that mainly belong to Lepidopteras and Coleopteras. For each of species are given status, habitat, corology, placement

### **INTRODUCTION**

Shkodra and Malesia e Madhe regions with their diversity of relief, represent a great diversity, especially for insects. Lack of authentic studies for threatened and risked species, except of red books, where are included all insects of these two regions, and the same time our modest help through monitoring and evaluating insects situation, knowing threat factors and risk factors, possibility of suggesting conservation measures, represent stimulus for this study. This requires continuous monitoring.

### **MATERIALS AND METHODS**

Materials collection is done during the period March-September 2002-2006, in some stations Reç, Razëm, Bogë, Rrapsh, Vermosh (for the region Malësi e Madhe) and Taraboshi, Shirokë (for the region of Shkodra). The frequency of gathering samples was episodic. The collection is done with uptakes, japanese umbrellas, knife excavations or methodic combs, Pitts traps, entomologic drag etc., for butterflies mainly with entomologic drags, as it's treated at MISJA (1990,2005), PASPARISTO (2001), STRINIQUI (2005). Then the material is conserved, elaborated. After being

determined, is done the consultation with Misja et al. and finally is determined their status. For each of species is marked status, habitat, corology, place where is meet and generally are written down threat reasons and preventive measures.



## RESULTS AND DISCUSSION

### 50 THREATENED AND RISKED SPECIES

#### R.Lepiptera

#### F.Hesperidae

##### 1- *Erynnis tages* L., Pikabardha kafe

Status: VU (Alb)

Habitat: meet in grassy environments up to 1800 m.

Found in: Shiroke (Shkoder), Reç (M. Madhe).

Reasons of threat: Deterioration and abolition of habitats.

Corology: eurosiberian specie

##### 2- *Carcharodus alceae* Esper, Mellagengrenesja

Status: VU (Alb)

Habitat: Regions lacking humidity, sunny regions, rich of flora.

Found in: Tarabosh (Shkoder).

Reasons of threat: Deterioration and abolition of habitats.  
Corology: Pelearktik Specie.

**3- *Carcharodus Flociferus*** Zeller, Flociferja

Status: VU (Alb)

Habitat: Valleys, often up to 2000m highness.

Found in: Tarabosh (Shkoder).

Reasons of threat: Deterioration and abolition of habitats.

Corology: Eurosiberian Specie.

**4- *Hesperia comma*** L., Koma

Status: VU (Alb)

Habitat: Grassy environments, meadows.

Found in: Tarabosh (Shkoder).

Reasons of threat: Deterioration and abolition of habitats.

Corology: Euroasiatic Specie.

**5- *Spialia phlomidis*** Flamidja, Her Ojsehaf

Status: VU (Alb)

Habitat: Grassy environments, meadows.

Found in: Tarabosh (Shkoder), Boga (Malesi e Madhe).

Reasons of threat: Deterioration and abolition of habitats.

Corology: Euroasiatic Specie.

**6- *Gegenes pumilio*** Hoffm.

Status: DD

Habitat: Environments rich of flora

Found in: Shiroka (Shkoder), Rrapsh (Malesi e Madhe).

Reasons of threat: Deterioration and abolition of habitats.

Corology: Balkanic Specie.

**F.Papilionidae**

**7- *Parnassius apollo*** L., Apollonja

Status: CR

Habitat: Meet in plateaus and hillsides, alpin pastures, greenswards with rare woods

Found in: Tarabosh (Shkoder), Razëm (Malesi e Madhe).

Reasons of threat: Deterioration and abolition of habitats.

Corology: Eurosiberian Specie.

**8- *Parnassius mnemosyne*** L., Mnemosinja

Status: VU

Habitat: champaigns, meadows, mountain inclines, up to 1800meters.  
Found in: Tarabosh (Shkoder), Razëm (Malesi e Madhe).  
Reasons of threat: Deterioration and abolition of habitats.  
Corology: Eurosiberian Specie.

#### **F. Pieridae**

**9- *Pieris krueperi*** Standt, Bardhoshja e Krupierit  
Status: VU (Alb)  
Habitat: warm zones, up to 2000meters.  
Found in: Shiroka (Shkoder)  
Reasons of threat: Deterioration and abolition of habitats.  
Corology: Euroasiatic Specie.

#### **F. Lycaenidae**

**10- *Thecla betulae*** L., Bishtakja e mështeknës  
Status: VU (Alb)  
Habitat: forests, bush zones, up to 1000meters.  
Found in: Tarabosh (Shkoder), Rrapsh (Malesi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats.  
Corology: Palearctic Specie.

**11- *Neozephyrus quercus*** L., Bishtakja vjollce e dushkut  
Status: VU (Alb)  
Habitat: leafy forests, rare forests  
Found in: Tarabosh (Shkoder), Rrapsh (Malesi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats.  
Corology: Euroasiatic Specie.

**12- *Heodes ottmanus*** Lefel, Flekeroshja e jugut  
Status: VU (Alb)  
Habitat: meadows, pastures from 50-1500meters.  
Found in: Shiroka (Shkoder), Reç (Malesi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats.  
Corology: Mediterranean Specie.

**13- *Thermolycaena dispar*** Flokesroshja e arte e madhe  
Status: VU (Alb)  
Habitat: marshy meadows or very humid ones  
Found in: Rrapsh (Malesi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats, overgrazing.

Corology: Holarctic Specie.

**14- *Palaeochrysophanus hippothoe* L.,** Flakëroshja e vogël e lëpjetës

Status: VU (Alb)

Habitat: mountain meadows 1000-2000m

Found in: Shiroka (Shkoder),

Reasons of threat: Deterioration and abolition of habitats

Corology: Balkanic Specie.

**15- *Glaucopsyche alexis* (Poda)** Aleksja

Status: VU (Alb), in european level

Habitat: forest zones, walleys near forests up to 2000

Found in: Shiroka (Shkoder), Reç (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Euroasiatic Specie.

**16- *Maculinea alcon*** Den Schiff, Kalteroshja e vogël e kenetes

Status: VU (Alb), in european level

Habitat: forest zones, walleys near forests up to 2000

Found in: Shiroka (Shkoder), Reç (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Euroasiatic Specie.

**17- *Maculoinea arion* L.,** Kaltëroshja njollazezë

Status: EN, in european level

Habitat: meet in rare exemplars, dry environments with dense flora up to 2000

Found in: Tarabosh (Shkoder), Rrapsh (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Eurosiberian Specie.

**18- *Iolana iolas*** Ochsen, Kalteroshja e madhe

Status: VU (Alb), in european level

Habitat: meet in rare exemplars in champignons, zones with rare bushes up to 1000

Found in: Shiroka (Shkoder), Boga (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Holomediterranean Specie.

**19- *Pseudophilotes vicrama*** Moore, Flatrabluja njolleze

Status: VU (Alb), in european level

Habitat: meet in zones rich of flora and lack of humidity, up to 2000

Found in: Shiroka (Shkoder), Reç (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Euroasiatic Specie.

**20- *Scolitantides orion***, Pallas, Flatrakafeblujta

Status: VU (Alb), in european level

Habitat: meet in zones rich of flora and lack of humidity, up to 1300m

Found in: Shiroka (Shkoder), Reç (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Eurosiberian Specie.

**F.Nymphelidae**

**21- *Erebia aethiops*** Esper, Zijoshja etiops

Status: VU (Alb), in european level

Habitat: meet in forest zones, up to 2000m

Found in: Taraboshi(Shkoder), Thethi (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Eurosiberian Specie.

**22- *Erebia pronoe*** Esper, Zijoshja pronojë

Status: DD

Habitat: meet in forest zones, up to 2000m

Found in: Taraboshi(Shkoder), Reç (Malesi e Madhe)

Reasons of threat: Limitation of habitats, collectionning

Corology: European Specie.

**23- *Erebia melas*** Hermst, Zijoshja melas

Status: DD

Habitat: meet in mountain zones rich of flora

Found in: Shiroka(Shkoder), Thethi (Malesi e Madhe)

Reasons of threat: Limitation of habitats, collectionning

Corology: European Specie.

**24- *Erebia medusa*** Den & Schiff, Zijoshja e pyllit

Status: VU (Alb), european level

Habitat: meet in champignons, near of forest zones, especially in humid places, from 1000 to 2000m,

sporadic in highness 300-2300m

Found in: Tarabosh(Shkoder), Vermosh(Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Eurosiberian Specie

**25- *Chazara briseis*** L., Briseida

Status: VU (Alb)

Habitat: meet in zones with lack of humidity, sandy-flinty, up to 1500m

Found in: Rrapsh (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Mediterranean Specie.

**26- *Neohipparchia statilinus*** Hfng., Statilinia

Status: VU (Alb)

Habitat: meet in zones with lack of humidity, rare forests

Found in: Shiroka (Shkoder)

Reasons of threat: Deterioration and abolition of habitats

Corology: Mediterranean Specie.

**27- *Hipparchia alcyone*** Den & Schiff, Gurishtorja

Status: VU (Alb)

Habitat: meet in dry zones, rare forests, even above 1500m

Found in: Rrapsh, Boga (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Mediterranean Specie.

**28- *Brenthis hecate*** Den & Schiff, Hekateja

Status: VU (Alb)

Habitat: meet in dry and warm zones, rare forests, up to 1500m

Found in: Rrapsh, Reç (Malesi e Madhe), Shiroka (Shkodra)

Reasons of threat: Deterioration and abolition of habitats

Corology: Mediterranean Specie.

**29- *Nymphalis antiopa*** L., Zimbjatesja.

Status: VU (Alb)

Habitat: meet in meadows, mountain wolds rich of flora, up to 2000m

Found in: Shiroka (Shkodra)

Reasons of threat: Deterioration and abolition of habitats

Corology: Eurosiberian Specie.

**30- *Melitaea cinxia*** L., Cinksia

Status: VU (Alb)

Habitat: meet in walleys, rare forests, quarry places, up to 2000m

Found in: Tarabosh (Shkodra) Boga (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: holarctic specie.

**F.Zyganidae**

**31- *Zygaena loti*** Den & Schiff, Zigena e mijëfletëses

Status: VU (Alb)

Habitat: meet in flowering meadows, forests, from 700-1600m

Found in: Tarabosh (Shkodra) Theth (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Mediterranean Specie.

**32- *Phylodesma lucifolia* L., Fshikendsia filodesme**

Status: VU (Alb)

Habitat: meet localised in rare forests, last years dissappearing

Found in: Tarabosh (Shkodra) Theth (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Euroasiatic Specie.

**33- *Eupagia quadripunctaria* Poda, Trashaluqja hera**

Status: VU

Habitat: meet in multiflorous shrubberies (blackberry, hazelnut)

Found in: Tarabosh (Shkodra) Theth (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Euroasiatic Specie.

**F. Artidae**

**34- *Tyria jacobaeae* L., Trashaluqja e gjakosur**

Status: VU (Alb)

Habitat: meet in highness up to 1600m

Found in: Theth (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Euroasiatic Specie.

**35- *Dysauxes ancilla*, Vogelushja e myshqeve**

Status: LR (nt)

Habitat: meet in highness from 1600m to 1700 m

Found in: Malesi e Madhe, Korça, Kukës

Reasons of threat: Deterioration and abolition of habitats

Corology: european specie.

**Coleoptera**

**F. Carabidae**

**36- *Calosoma sycophanta* L., Kalozoma erëkeqe**

Status: EN

Habitat: ample leafs forest

Found in: Shiroka (Shkoder)  
Reasons of threat: Deterioration and abolition of habitats  
Corology: Holarctic Specie.

**37- *Carabus coriaceus*** Charpoentier, Karabusi koracfortë  
Status: VU (Alb)  
Habitat: verdant greenswards  
Found in: Boga (Malësi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats  
Corology: Balkanic anatolik specie.

#### **F. Hydrophilidae**

**38- *Hydrous piceus*** L., Hidrousi topth  
Status: VU (Alb)  
Habitat: near of dams with flora and water  
Found in: Shkodra  
Reasons of threat: Deterioration and abolition of habitats  
Corology: Palearctic specie.

#### **F. Lucanidae**

**39- *Dorcus paralelopipedus*** L., Durkusi paralelopiped  
Status: VU (Alb)  
Habitat: meet in forest zones  
Found in: Reç, Rrapsh (Malesi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats  
Corology: Palearctic Specie.

**40- *Lucanus cervus*** L., Kacadreni  
Status: LC (Ic)  
Habitat: meet in oak zones, where predominate leafys, gardens, parklands  
Found in: Tarabosh (Shkodra) Boga (Malesi e Madhe)  
Reasons of threat: Deterioration and abolition of habitats  
Corology: palearctic specie.

#### **F. Scarabaeidae**

**41- *Osmoderma eremite*** Scopoli, Osmoderma eremitë  
Status: CR  
Habitat: meet in old forests, meadows and aprklands with old woods. Rare in oak forests  
Found in: Shiroka (Shkodra) Theth (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats  
Corology: Palearctic Specie.

**42- *Oryctes nasicornis* L., Hundebriiri**

Status: LR (nt)

Habitat: meet in forest field environments

Found in: Rrapsh, Boga (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Palearctic Specie.

**43- *Gymnoplurus mospus* Pall., Gimnoplurusi me qime**

Status: EN

Habitat: meet in open environments and mammal pastures

Found in: Koplík, Boga (Malesi e Madhe)

Reasons of threat: Deterioration and abolition of habitats

Corology: Eurosiberian Specie.

**44- *Meloe proscarabeus* L., Proskarabeusi (Insecta, Cleoptera)**

Status: VU (Alb)

Habitat: meet in grassy open environments during the spring

Found in: Shiroke (Shkodër)

Reasons of threat: Deterioration and abolition of habitats

Corology: Palearctic Specie.

**F.Cerambycidae**

**46- *Purpuricenus kaehleri***

Status: VU (Alb)

Habitat: forest environments, shrubberries, high flora

Found in: Tarabosh (Shkodër)

Reasons of threat: Deterioration and abolition of habitats

Corology: EuroAtlantic Specie.

**47- *Morimous asper funereus*, Murimus kafe**

Status: LR (nt)

Habitat: forests with ample leafs

Found in: Rrapsh, Boga (M. Madhe).

Reasons of threat: Deterioration and abolition of habitats

Corology: European Specie.

**48- *Aromia moschata* L., Armia e vjetër e gjelbër**

Status: VU (Alb)

Habitat: champignons with old woods

Found in: Rrapsh, Reç (Malesi e Madhe).

Reasons of threat: Deterioration and abolition of habitats  
Corology: European Specie.

**49- *Aromia moschata* L., Armia e vjetër e gjelbër**

Status: VU (Alb)

Habitat: champignons with old woods

Found in: Rrapsh, Reç (Malesi e Madhe).

Reasons of threat: Deterioration and abolition of habitats

Corology: European Specie.

**50- *Cerambyx cerdo* L., Brisqari**

Status: EN

Habitat: forest zones

Found in: Rrapsh, Reç (Malesi e Madhe).

Reasons of threat: Deterioration and abolition of habitats

Corology: European Specie.

## CONCLUSIONS

This study helps for a deeper knowledge of 50 threatened and risked species in the regions of Shkodra and Malesia e Madhe, in various stages of threat. We consider that their threat reasons are numerous but we can conclude as main reasons: deterioration and abolition of habitats, collections before eggplacement, chemical-organic contamination of waters, (for water insects).

For risk prevention, is necessary to take measures for the protection of habitats, averting commercial collectioning, averting the discharge of contaminated substances, while is necessary to increase ecological researchs and to monitor risked species and theri habitats. Especially

Particularly, measures and special actionplans have to be applied for the above mentionned species, that are closer to the risk of disappereance.

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