Butterfly work in Cyprus

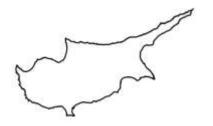




Elli Tzirkalli Laufen 2014

Cyprus Butterfly Study Group (CBSG)

- Group of scientists, amateur entomologists and butterfly/natural history enthusiasts devoted to the study and conservation of Cyprus butterflies
- Formed in February 2012 and a 'Network Partner' of Butterfly Conservation Europe



Aims of the CBSG

Promote the study and conservation of butterflies



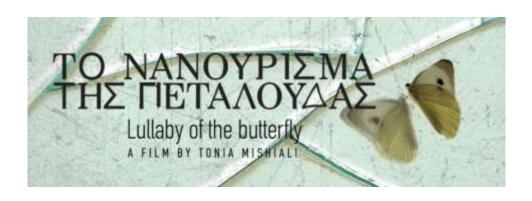


Aims of the CBSG

Provide a point of contact







Aims of the CBSG

Promote environmental awareness



Cyprus butterflies

- 53 species
- 3 endemic species
- 3 endemic subspecies
- 2 IUCN Red List species

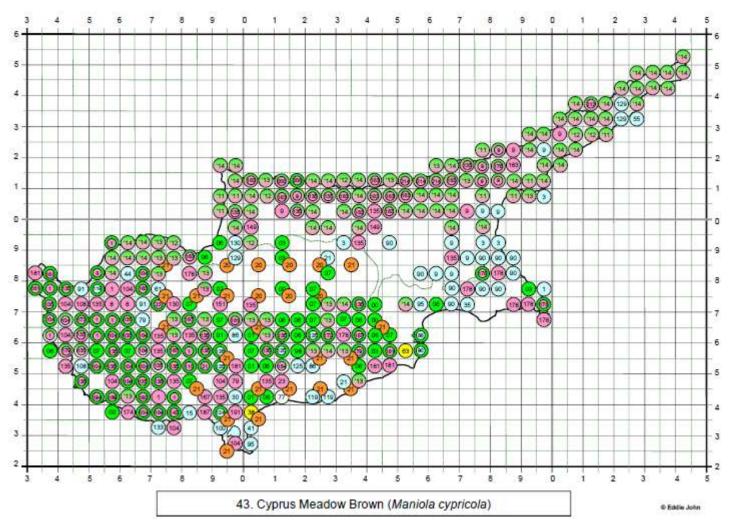


Recording scheme by Eddie John

- Established in 2000 to collate, store and publish butterfly distributions records (10 km and now 5km UTM grids)
- Send monthly phenograms to CBSG members
- 219 contributors of butterfly sightings throughout the island!

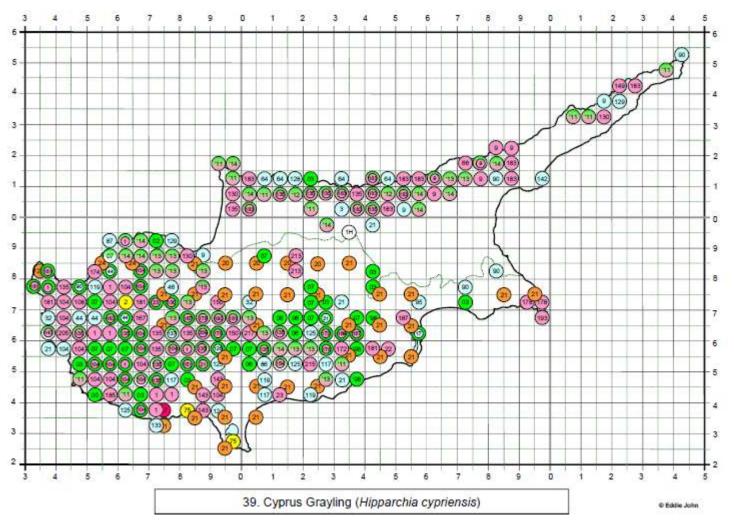
Maniola cypricola





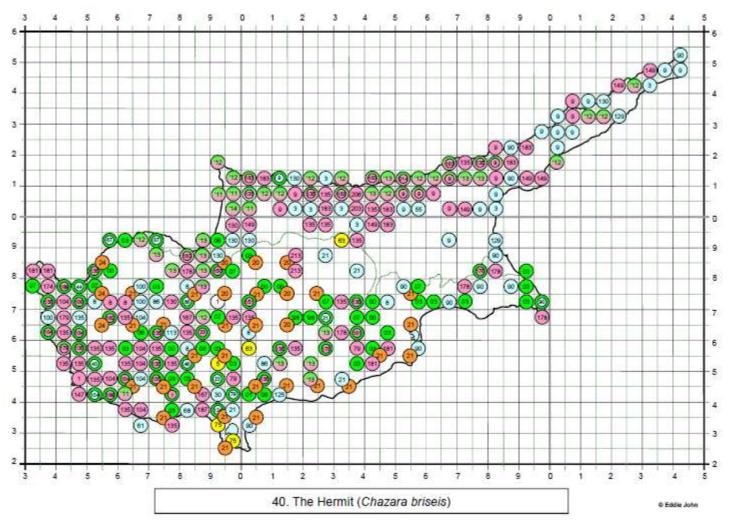
Hipparchia cypriensis





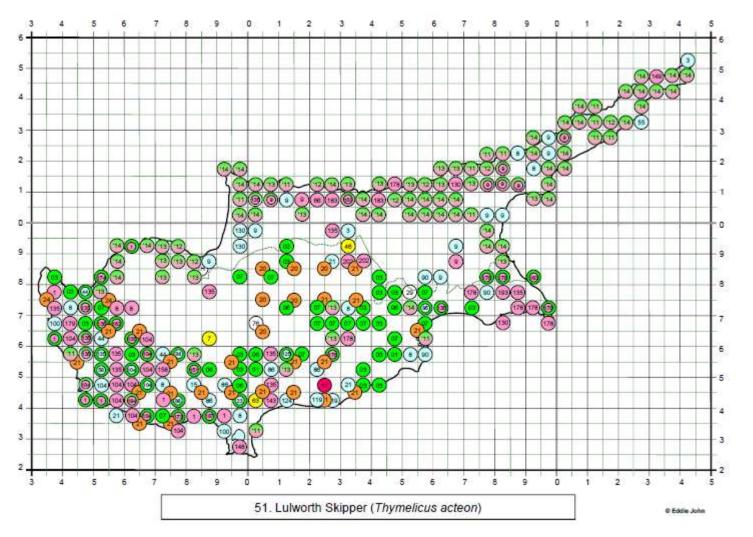
Chazara briseis



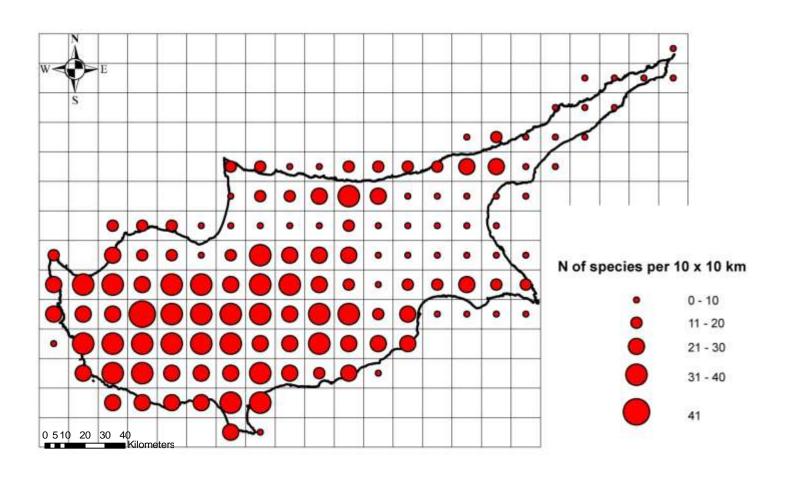


Thymelicus acteon

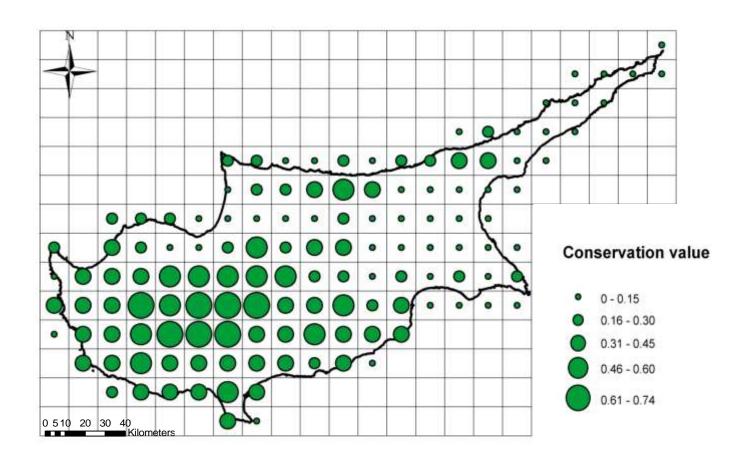




Butterfly Atlas

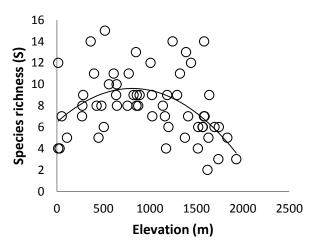


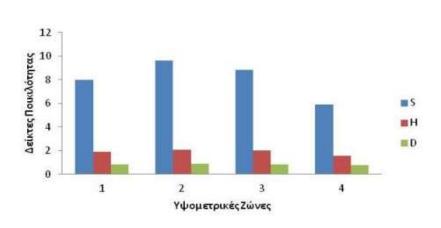
Butterfly Atlas-Conservation Value



PhD work

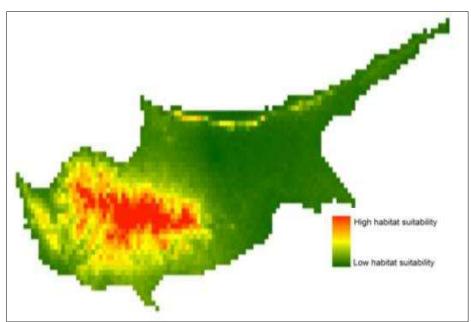
- Sampled 60 sites (2011-2013)
- Used 4 elevational zones (500 m band)
- Recorded 38 species
- Butterfly species richness follows the hump-shape pattern





Species distribution modelling (MaxEnt)

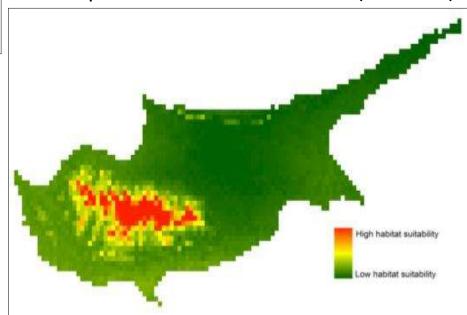
Glaucopsyche paphos



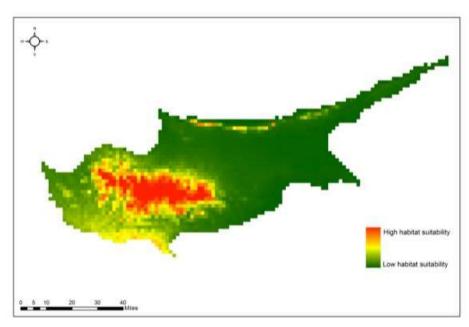
Current potential distribution (AUC> 0.9)



Future potential distribution-2050 (HadCM3)



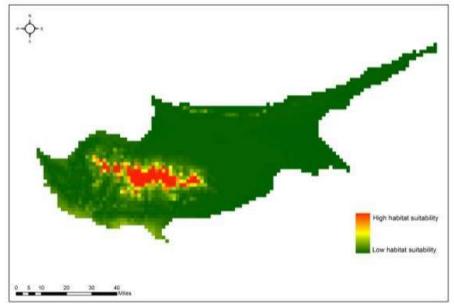
Maniola cypricola



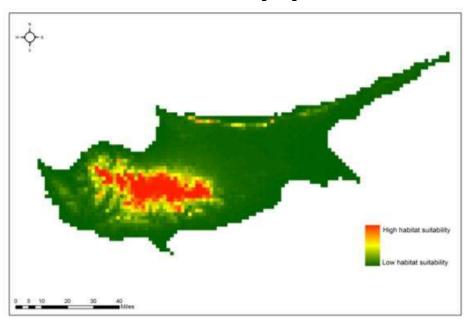
Current potential distribution (AUC> 0.9)



Future potential distribution-2050 (HadCM3)



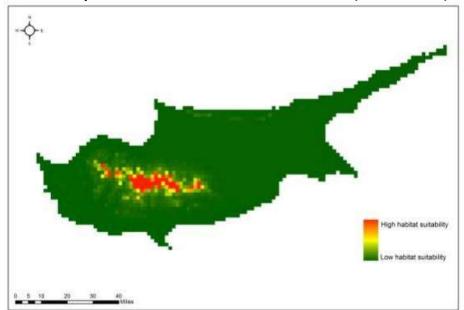
Hipparchia cypriensis



Current potential distribution (AUC> 0.8)



Future potential distribution-2050 (HadCM3)



Future monitoring scheme by CBSG

- Prepare a butterfly monitoring plan
- Establish a network of transect sites
- Find and train volunteers for participation in recording butterfly transects
- Produce an online database for submitting and managing monitoring data

