Plant Micro-Reserves (PMR) constitute areas of small extent (less than 20) ha) that aim in the protection and management of the population of a rare plant. In the framework of the European Project LIFE-CRETAPLANT, a pilot network of 7 PMR has been established, for the first time in Greece, in the Prefecture of Chania (on public lands, part of the NATURA 2000 Network) for the protection of 7 threatened plants. Moreover, an additional number of important species of plants and animals as well as habitat types are protected in every PMR. Responsible for the monitoring and management is the Forestry Service, in collaboration with Local Authorities and scientific institutes. The overall objective of the venture is twofold: the conservation of these little biodiversity treasures and the information - increase of public awareness towards Greek Nature.







ΕΘΝΙΚΟΝ & ΚΑΠΟΔΙΣΤΡΙΑΚΟΝ ΠΑΝΕΠΙΣΤΗΜΙΟΝ ΑΘΗΝΩΝ NATIONAL & KAPODISTRIAN UNIVERSITY OF ATHENS



Knowledge - Protection - Conservation



Project LIFE04 NAT/GR/000104: **CRETAPLANT – A Pilot Network of Plant Micro-Reserves in Western Crete**

Publication: National and Kapodistrian University of Athens (Photos: CRETAPLANT, NKUA, Mediterranean Agronomic Institute of Chania, Forest Directorate of Chania) Editing: Costas Thanos, Assoc. Professor, Faculty of Biology NKUA - Apostolis Kaltsis, Biologist M.Sc. - Christini Fournaraki, Biologist M.Sc. - Katerina Koutsovoulou, Biologist

MICRO-RESERVE Bupleurum kakiskalae Greuter



A Pilot Network of Plant Micro-Reserves in Western Crete Πιλοτικό Δίκτυο Μικρο-Αποθεμάτων Φυτών στη Δυτική Κρήτη





Bupleurum kakiskalae Greuter

Conservation and monitoring actions



Distribution

Bupleurum kakiskalae (Umbelliferae family) occurs only in 2 locations of Lefka Ori in Western Crete (and nowhere else in the world).

Description

A perennial monocarpic plant (ie producing flowers and fruits only once in its lifetime and then dies). It flowers from July to August and forms an impressive inflorescence up to 1 m

high with small yellow flowers. Seeds mature from October to November

Conservation status

- Included in Annexes II* and IV of 92/43 EU Directive
- Protected by the Presidential Decree 67/81
- Protected by the Bern Convention (1979)
- Proclaimed 'Endangered' by the Red Data Book of Rare and Threatened Flora of Greece (1995)
- Included in the IUCN list of "The Top 50 Plants of the Mediterranean Islands" (2006)



Seeds of Bupleurum kakiskalae (in magnification)

Threats

- Grazing
- Climatic change

The Plant Micro-Reserve (PMR) of Bupleurum kakiskalae

Locality: Kakiskala, Linoseli, Lefka Ori

Surface: 1 ha Altitude 1450 m Landscape: Vertical calcareous cliff with chasmophytic vegetation

Other important plant species: Onobrychis sphaciotica, Campanula cretica, Dianthus juniperinus subsp. juniperinus, Campanula jacquinii, Crepis auriculifolia, Cirsium morinifolium. Staehelina fruticosa. Lomelosia albocincta





- Wardening
- Placement of information boards
- Recording of climatic parameters (meteorological microstation)
- Fencing on the base of the cliff for the protection of young plants from grazing and the enhancement of the population size, currently lower than 100 plants
- Annual counting of flowering plants for the monitoring of population fluctuations
- Seed storage in the Seed Banks of MAICh and University of Athens
- Study of seed germination and the factors regulating regeneration of the species









Monitoring of Bupleurum kakiskalae population implemented by telescopic photography.

