



«Actions to protect, conserve and promote biodiversity. Field studies of endemic, endangered and nationally important species of Greece». Funded by the Natural Environment and Climate Change Agency (NECCA)

TITLE

Conservation status assessment and establishment of monitoring scheme for the local endemic species *Campanula pangea* by employing individual-based functional trait measurements

(Project ID: 14794)

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ABSTRACT

The proposal aims at the assessment of the threat category of the local endemic species, *Campanula pangea* Hartvig, on the basis of extensive and detailed field data. Furthermore, it aims at the implementation of an innovative approach in plant species' assessment of threat category, which incorporates the elaboration of functional trait measurements in the data used for the above-mentioned assessment. Functional traits may comprise a promising tool in species conservation assessment as they reflect species fitness under certain ecological conditions and their response to environmental changes. The field data for the targeted species will be collected by applying a methodology that allows the estimation of data accuracy for a specific significance level. Response functional traits will be measured at the individual level, giving thus the ability of upscaling these trait characteristics to any desired spatial or population structure level. Biotic and abiotic parameters will be recorded in each sampling locality, giving us the opportunity to explore any possible relationship between them and population characteristics, functional traits, and species' conservation status. The data that will be collected will allow a detailed and accurate assessment of the studied species threat category, a more in-depth understanding of the factors affecting its conservation status while also the development of a new approach, in which functional traits will be used in quantitative analysis to acquire a more detailed and cost-effective assessment of species threat category, as well for the establishment of a monitoring scheme with corresponding characteristics.
