

SGSII-25 *Gentianella amarella amarella* and *Gentianella obtusifolia sturmiana*



Ministerstvo životního prostředí

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NEWS

Project name: Preparation of the Action Plan for Dwarf Gentians – *Gentianella amarella* subsp. *amarella* and *Gentianella obtusifolia* subsp. *sturmiana*

Project Nr.: MGSII - 25

Project location: Various locations throughout the Czech Republic

Financial support: EEA Grants, Small Grants Scheme (SGSII) entitled “Action Plans for Endangered Species II”, support area 2: “Revision and Preparation of New Action Plans and Management Plans for Endangered Plant and Animal Species”

Total Resources: 939,780 CZK incl. VAT

Financing: Financial resources from EEA Grants are assigned in the amount of 798,813 CZK, which is 85% of the anticipated total project expenditure. The state budget grants financial resources in the amount of 140,967 CZK, which is 15% of the anticipated total project expenditure.

Project duration: 1.3.2015 – 30.4.2017

Project partners:

- Cheb Museum, an organisation of the Karlovy Vary Region

Project guarantee:

- Mgr. Pavel Martinec, AOPK ČR, Division of species protection, E: pavel.martinec@nature.cz
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Overall Project Summary and Effect of the Project on the Relevant Species

The project fulfilled the anticipated objectives and outputs and was officially closed as of 30.4.2017.

The key benefit of the project is the completed action plan which is a high-quality basis for the implementation of measures to support the occurrence of two Dwarf Gentians – *Gentianella amarella* subsp. *amarella* and *Gentianella obtusifolia* ssp. *sturmiana*. The action plan was prepared in accordance with the Guidelines for the Preparation of Action Plans for Specially Protected Plant Species, attached to the Concept of Action Plans and Management Plans for Specially Protected

Animal and Plant Species in the Czech Republic. The action plan summarises the available knowledge of the species and offers comprehensive care for the species and its habitats so that implementation of this action plan guarantees the survival of the species in the Czech Republic. Further, several studies were made as part of the preparation of the action plan which considerably extended the knowledge of the relevant species....(overall summary full text).

Project Objective and Scope:

The objective of this project was to prepare a new action plan for two Dwarf Gentians – *Gentianella amarella* subsp. *amarella* and *Gentianella obtusifolia* ssp. *sturmiana*, aiming to preserve the populations of these declining species in the Czech Republic.

Dwarf Gentians are annuals or biennials with similar ecological requirements. Their occurrence was always based on biotopes managed by pasture and naturally disturbed habitats, they seldom show a more prominent bond to the substrate and are probably dependant on endotrophic mycorrhiza.

Gentianella amarella subsp. *amarella* used to be scattered over all Czech thermophyte and mesophyte sites and, much more rarely, in south-western Moravian sites, with isolated occurrence in the orophyte sites in the Krusne Mountains and the Zdarske hills. Isolated sites can also be found in central Moravia. As a result of a lack of adequate management, a greater decline of the species has been seen, with only 67 populations in the Czech Republic proven as part of preparation of the action plan.

Gentianella obtusifolia ssp. *sturmiana* is similar as regards ecological and management requirements to *Gentianella praecox* subsp. *bohemica* for which the action plan is underway now. This species used to occur at approximately a hundred sites in western Bohemia. It has only survived in 10 sites.

This project defined specific tools to secure stable populations at the most promising sites and suitable conditions to preserve and emphasise the populations at all the current sites. The proposed measures include biotope management, species management, monitoring and research.

For the purposes of preparation of the action plan, the following underlying documents were prepared as part of this project:

- Historical occurrence of both species
- Recent occurrence of both species
- Long-term monitoring of populations
- Life cycle
- Seed production
- Fitness of the *Gentiana amarella* populations
- Comparative vegetation analysis of *Gentiana amarella*

The findings obtained were also used in preparing an informative brochure briefly summarising the management of Gentian sites for the public, voluntary conservation associations and conservation offices.

The project team: Nature Conservation Agency of the Czech Republic (NCA CR), RNDr. Jiri Brabec (Museum in Cheb), RNDr. Zdenka Krenova, Ph.D., Mgr. Iveta Husakova

Photos:



Partner logo:



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