

SUMMARY

New locality of mountain globe flower *Trollius europaeus* L. in the Grabowa River Valley (Zachodniopomorskie province)

Mountain globe flower *Trollius europaeus* L. who belongs to Ranunculaceae family has been classified by Żukowski and Jackowiak (1995) to category of endangered species in the Wielkopolska and the Western Pomeranian regions. In Poland the species is protected by law due to its rare appearance and relict character. It is commonly accepted that main reasons for disappearance of its localities are changes in hydrology balance on wet meadows and destructions caused by people who for their decorative values, pick them up or transplant into gardens (Denisiuk 1965, Ćwikliński, Jasnowski 1997).

New locality of *Trollius europaeus*, so far not reported, was found in 2005 in the Grabowa River Valley, on the south of Polanów, in the Western Pomeranian region.

Upper section of the Grabowa River and surrounding valley has been rated among the most valuable parts of Poland and included into system of protected areas Natura 2000 „PLH 320003 Dolina Grabowej”. On the Grabowa River, mountain globe flower occurs on meadows of approximately 1 ha area, overgrowing the edge section of the valley.

It has been located 318 clusters of *Trollius europaeus* with fruiting shoots. Individual clusters most often has one flowering shoot although there are plants with a few dozen flowering shoots. Mean for one cluster was 5,2 flowering shoots.

Phytocenosis of association *Polygono bistortae-Trollietum europaei* depending on soil humidity differ in floristical content especially in frequently from + to 2.2 of mountain globe flower. Among species who create the association, among others *Filipendula ulmaria*, *Cirsium oleraceum*, *Equisetum palustre*, *Succisa pratensis*, *Molinia caerulea*, *Polygonum bistorta* play the most part. Les frequently presented among others *Holcus lanatus*, *Carex flacca*, *Juncus effusus*, *Lathyrus palustris*, *Lychnis flos-cuculi*, *Phleum pratense*, *Phragmites australis* and *Rumex acetosa*.