

SUMMARY

Ciosek M.T., Falkowski M., Krechowski J. Vegetation of the “Czerwony Krzyż” nature reserve (Central Poland).

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A floristic survey was carried out in 2003–2006 to estimate the present state of vegetation of the “Czerwony Krzyż” nature reserve established in 1990 to protect small population of *Goodyera repens* (L.) R. Br., an orchid species very rare in the Mazowsze Province. The following forest associations were found within the reserve: *Tilio-Carpinetum typicum*, *Peucedano-Pinetum*, *Molinio caeruleae-Pinetum* and *Quercus roboris-Pinetum*. A total of 196 vascular plant species belonging to 55 families and 135 genera were recorded. The flora is composed mainly of woodland species (114 species, 58,2%). Only 11 (5,6%) non-native species were found. Worth of note is the occurrence of 14 legally protected species (*Lycopodium annotinum*, *L. clavatum*, *Polypodium vulgare*, *Hepatica nobilis*, *Chimaphilla umbellata*, *Ledum palustre*, *Frangula alnus*, *Melittis melissophyllum*, *Viburnum opulus*, *Hierochloë australis*, *Convallaria majalis*, *Lilium martagon*, *Goodyera repens*, *Platanthera bifolia*) as well as four regionally threatened plants (*Dryopteris dilatata*, *Gymnocarpium dryopteris*, *Pulmonaria angustifolia*, *Carex pilosa*). The results of investigations confirmed good condition of plant associations. However, special measures to improve light conditions under tree canopy, i.e. removing some trees and bushes, may be needed at the sites of *G. repens*.