

THE GENUS *DRABA* (BRASSICACEAE) IN MURMANSK REGIONA. V. Razumovskaya^{a, #}, E. M. Machs^b, and M. N. Kozhin^c^a Institute of North Industrial Ecology Problems KSC RAS
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On the basis of herbarium and literature data, as well as the authors' observations, an analysis of geographical and ecological patterns of 11 *Draba* species was carried out. The maps of distribution in the Murmansk Region (Russia) were compiled for each taxon. Critical samples and taxa of *Draba* were molecularly examined by NGS and Sanger analysis to determine the degree of intragenomic polymorphism, phylogenetic interrelations of the taxa, and in some cases to check plant identification. Data on findings of 2 species new to the region, namely *D. oxycarpa* Sommerf. and *D. micropetala* Hook., are given, as well as of *D. cinerea* Adams, which was not previously mentioned in Russian regional publications. The species *D. insularis* Pissjauk. from the islands and coast of the White Sea is suggested to treat as a form of *D. hirta* L., occurring in favorable microclimate and soil conditions. In terms of the types of geographic ranges, *Draba* species from the Murmansk Region are divided into "arctic" and "hypoarctomontane" groups with different adaptive abilities in the conditions of a modern climate. Both groups, despite differences in the occurrence of species, are characterized by an oreophytic, predominantly coastal distribution pattern. In inland area, they are confined to ancient fjords and marginal zones of marine transgressions, and have a compact (refugial) settlement pattern, which is consistent with the hypothesis of their periglacial and shelf dissemination in the Arctic during the Quaternary. Local populations of the "arctic" whitlowgrasses, due to their relict areal, deserve protection and further study. The patterns obtained for the modern distribution of the species allow to make some suggestions for territorial adjusting the environmental protection measures in the Murmansk Region.

Keywords: *Draba* genus, new findings, distribution maps, systematics, phylogenetic tree, intragenomic polymorphism, paleolandscape

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