

New species and combinations in *Helvella* and *Gyromitra*

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Descriptions are given of the following new cupulate species of *Helvella* St.-Am. (Pezizales): *H. hyperborea* Harmaja (type from Finland), *H. oblongispora* Harmaja (type from the Federal Republic of Germany), and *H. pedunculata* Harmaja (type from Finland). *Geopyxis verruculosa* Sacc. (*Peziza verruculosa* Berk. & Curt. non al.) is transferred to *Helvella* as *H. verruculosa* (Sacc.) Harmaja, n. comb. *Paxina recurvum* Snyder is transferred to *Gyromitra* Fr. as *G. recurva* (Snyder) Harmaja, n. comb.

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Three new cupulate species and two new combinations in the genera *Helvella* St.-Am. and *Gyromitra* Fr. (Pezizales) are published here, partly to permit their inclusion in the Nordic Flora of Macromycetes now under preparation. More detailed accounts of all the species will be published in forthcoming papers.

Helvella hyperborea Harmaja, n. sp. — *Helvellae costiferae* valde propinqua. Ab ea differt apotheciis plerumque obscurioribus, costis apothecii minus prominentibus non vel parce ramosis, superficie exteriore apothecii brunneopubescenti, paraphysibus dissimilibus, cellulis texturae prismaticae brunneoincrustatis et distributione hyperborea. — *Typus*: Finland, prov. Kuusamo, par. Kuusamo, Juuma, western part of the gorge Jäkälävuoma, alt. ca. 205 m, on a shady shelf in the basal part of a steep dolomitic rock, among the moss *Distichium capillaceum* (etc.), accompanied by *Salix reticulata*, *Saxifraga aizoides*, *S. nivalis*, *Woodsia glabella*, *Gerronema albidum*, 27.VIII.1970 H. Harmaja (H). Specimens also seen from Sweden, Norway, and Iceland.

Helvella oblongispora Harmaja, n. sp. — *Helvellae leucomelaenae* sat similis; ab ea differt coloribus pallidioribus et stipite costis satis distinctis apothecii,

constructione excipuli dissimili et sporis brevioribus (longitudine 17.5—21.0 μ m) plerumque oblongis. — *Typus*: Federal Republic of Germany, Bavaria (Bayern), near Munich (München), abundant on calcareous soil under conifers near the River Isar, 23.VII. 1969 A. Einhellinger (C). Specimens also seen from Sweden, Norway, and Austria.

Helvella pedunculata Harmaja, n. sp. — *A Helvella leucomelaena praecipue differt apotheciis tenuiter pedunculatis stipite costato et sporis brevioribus* (longitudine ca. 17.5—20.0 μ m). — *Typus*: Finland, prov. Pohjois-Pohjanmaa, par. Kiiminki, Keskikylä limestone area, N end of Isohalmeenmaa, 50 m W of the spring, in rich fen among moss, 2.VII.1975 E. & M. Ohenoja (OULU). Specimens also seen from Norway.

Helvella verruculosa (Sacc.) Harmaja, n. comb. (*Geopyxis verruculosa* Sacc., *Sylloge fungorum* 8: 68. 1889; *Peziza verruculosa* Berk. & Curt., *Proc. American Acad. Arts Sci.* 4: 127. 1860; Isotype (FH) examined. — Non *Peziza verruculosa* Weinm., *Sylloge plantarum novarum* 2: 111. 1827; nec *Peziza verruculosa* Berk. & Broome, *Journ. Linnean Soc. London* 14: 105. 1875.)

Gyromitra recurva (Snyder) Harmaja, n. comb. (*Paxina recurvum* Snyder, *Mycologia* 28: 487. 1936. — Type material (NY) examined.)

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