Occurrence of the liverwort *Pallavicinia lyellii* in Poland

Adam Stebel*, Barbara Fojcik, Stanisław Rosadziński & Sylwia Wierzcholska


*Pallavicinia lyellii*, a liverwort species threatened in Europe, is a rare component of the bryoflora in Poland. This paper presents information on its 27 published and new sites, a brief discussion about ecology and threats, as well as a map of its current distribution in Poland.


*Pallavicinia lyellii*, ein in Europa gefährdetes Lebermoos, ist eine seltene Komponente der Bryoflora Polens. In diesem Beitrag werden Informationen über die 27 veröffentlichten und neuen Fundorte, eine kurze Diskussion zur Ökologie und zu Gefährdungen sowie eine Karte ihrer derzeitigen Verteilung in Polen präsentiert.

**Key words:** Distribution, ecology, hepatics, threatened species.

**Introduction**

*Pallavicinia lyellii* (Hook.) Gray (Fig. 1) is a supposedly subcosmopolitan, temperate-tropical species, occurring in western and central parts of Europe, Asia, North, Central and South America, northern and central Africa, and some areas in the southern hemisphere, but its distribution is still insufficiently known (Schuster 1992, Damsholt 2002). In Europe it is a rare species and it was placed on the ‘Red list of bryophytes’ (Schumacker & Martiny 1995) in the category of Vulnerable. In Poland *Pallavicinia lyellii* is known from 27 sites. On the recent ‘Red list of liverworts threatened in Poland’ (Klama 2006) it appears in the category of Endangered species, and it is also listed among plants protected by law (Regulation... 2014). Although *P. lyellii* is classified as endangered, nine additional sites were discovered after the year 2000, comprising one third of all known sites in Poland. The reason for this situation is unclear; perhaps this sub-oceanic species (Damsholt 2002) is increasing the number of its sites due to climate change, or increased detection may have resulted from the intensification of bryological research in some regions of Poland.

The main goal of this paper is to provide information about the current distribution of *Pallavicinia lyellii* in Poland.

**Materials and methods**

All records concerning the occurrence of *Pallavicinia lyellii* in Poland were compiled into a database. Herbarium specimens, where available, were revised (5 specimens from KRAM, 4 – POZG,

* Corresponding author