

BIOTAXONOMIC AND ECOLOGICAL STUDIES IN *SOLIDAGO VIRGA-AUREA* L. SL.

by

Zbigniew MIREK & Lucyna MUSIAŁ

Aims. Knowledge of relationships between the variability of morphological, chemical, biological, ecological, cytological and embryological features in *Solidago virga-aurea* complex with particular attention to the changes in the altitudinal gradient. Critical taxonomic analysis of the taxa hitherto distinguished within *S. virga-aurea* s. l.

Research in progress. Studies are still in their initial stage. In 1987 and 1988 population samples of *S. virga-aurea* s. l. were collected on an altitudinal gradient in the Carpathians starting from lowland areas (ca. 200 m above sea level) up to the subnival belt in the Tatra Mts (2400 m above sea level). The population samples, each consisting of about 25-30 living specimens, were grown under the same conditions in experimental plots.

Preliminary results. Introductory observations after two years indicate that most of the morphological and biological differences are stable.

References

- Skawińska, K. 1981. Biometrical analysis of some morphological characters of *Solidago virga-aurea* L. *Fragm. Flor. Geobot.* 27(3): 331-341.