

Concluding from the finding of erratics, the height of glaciation of the Inn valley glacier system in the vicinity of Innsbruck (574 m. a. s. l. = 1,780 ft.) reached as high as 2,400 m. a. s. l. (= 7,440 ft. a. s. l.).

References

- FLIRI, F. et al. (1970): Der Bänderton von Baumkirchen (Inntal, Tirol). — Zeitschr. f. Gletscherkde. u. Glazialgeol. 6, 5—35.
- HEISSEL, W. (1954): Beiträge zur Quartärgeologie des Inntales. — Jahrb. d. Geol. Bundesanstalt 97, 251—322.
- HEUBERGER, H. (1966): Research on former glaciation in the Central Alps between Sellrain Valley and Ötz Valley (Tyrol, Austria). 1—10. — (Hectography, available at the author).
- PASCHINGER, H. (1950): Morphologische Ergebnisse einer Analyse der Höttinger Breccie bei Innsbruck. — Schlern-Schriften 75, 1—86.

Dr. M. E. SCHMID, Geol. Survey of Austria

Evolutionary trends in the foraminiferal genus *Uvigerina* in the Badenian of the Vienna basin

(Abstract)

The zonation of the Badenian was proved by means of the evolution of the benthonic foraminiferal genus *Uvigerina* and several guideforms were described already in 1953 (PAPP & TURNOVSKY, Jb. Geol. B.-A., 96). Unfortunately, these guide-fossils sometimes are lacking while other species, occurring throughout the Badenian beds, normally are present in a sufficient number of specimens.

Due to this fact a method was developed recently, demonstrating the evolution of *Uvigerina* by means of metrical methods (PAPP & SCHMID, Verh. Geol. B.-A., 1971/1). In this study it is shown, that sculptural features may be neglected and the number of specimen restricted too, thus having the possibility to use this method for samples from wells with an often limited material. The features taken into consideration are: the number of chambers and the length of the tests. An average index-number, representative of the degree of evolution, was determined arithmetically for several surface outcrops representing the type-localities of the Badenian zonation. The increase of the indices from the oldest to the younger beds of the Badenian (14.0 to 64.8) was checked and confirmed by the study of well-samples in superposition too. As the main result it is pointed out, that we are able to evaluate the stratigraphic position of *Uvigerina* bearing beds from the Badenian of the Vienna basin merely by determination of the index-numbers of the *Uvigerina* populations.