## ANOMALOUS TEETH IN ZAPUS (MAMMALIA, RODENTIA)

by

## Gwilym S. Jones (1) and Harlan D. Walley (2)

Quarante-quatre anomalies dentaires de Zapus (Rodentia, Zapodidae), comprenant des dents surnuméraires semblables aux prémolaires, des prémolaires disparues, des prémolaires rabougries et des pointes supplémentaires, sont décrites.

Only a few cases of tooth anomalies have been reported in North American zapodids. Krutzsch (1953) reported bilateral supernumerary teeth posterior to the upper tooth row in Zapus princeps from Gunnison County, Colorado and Klingener (1964) reported the lack of premolars (P4's) in a Zapus hudsonius from Oakland Co., Michigan. Klingener (1964) further reported a Napaeozapus insignis from Menominee County, Michigan with a left P4 and Wrigley (1972) reported a N. insignis from Quebec with small bilateral supernumerary teeth posterior to the upper third molars (M3's), and also 15 N. insignis with small cusplike structures on the lingual side of the upper molars. We are here reporting additional Zapus tooth anomalies.

A Zapus hudsonius (HDW 1345) from DeKalb, DeKalb County, Illinois has an unusual supernumerary anomaly (Fig. 1). In both the right and left upper tooth rows, a small premolar-like tooth emerges lingually from between the M2 and M3. The teeth are very similar to the premolars of the same specimen, showing the same cusp arrangement and close to the same measurements — premolars both  $0.4\times0.5$  mm, supernumerary teeth both  $0.5\times0.4$  mm (measurements length  $\times$  width). The premolars are round in cross section while the supernumerary teeth are triangular.

We report two more Z. hudsonius specimens lacking P4's, ROM 24208 from 3 mi. S. Laniel, Temishaming Co., Quebec has neither P4's nor evident alveoli; U. Mo. M. Z. 1869 from Lawrence Co., Missouri lacks the left P4 and any evidence of an alveolus while the right P4 is normal.

The following two specimens exhibit premolars which are not fully developed (i.e. they do not reach the occlusal plane): ISM 684200 Pennsylvania, Westmoreland Co., Powdermill Nature Preserve (left premolar

<sup>(1)</sup> Department of Life Sciences, Indiana State University, Terre Haute, Indiana 47809.

<sup>(2)</sup> Northern Illinois University, Dekalb, Illinois 60115.