

*Pygodonts
in situ*

CONODONTS FROM DAVIDSVILLE GROUP OF THE BOTWOOD ZONE, NEWFOUNDLAND

by Svend Stouge

Limestones of the Davidsville Group were collected in 1977 at two localities on Weir's Pond (Blackwood, 1978), and were processed for conodonts. The northern locality contains a well preserved fauna of North Atlantic Faunal Province affinity, which compares to the *Pygodus serrus*/*Pygodus anserinus* zones of Bergstrom, (1971). Additional samples from the southern locality were processed in 1978 and more fossil material obtained.

The fauna from both localities include *Pygodus serrus*, *P. cf. anserinus*, *Eoplacognathus lindstroemi*, *E. robustus*, *Prioniodus cf. variabilis* and *Periodon aculeatus* (Table 1). In addition, several single cone species are present. The fauna contain several zone fossils and are biostratigraphically important. This more detailed study of the fauna from both localities confirms the preliminary Upper Llanvirn - Lower Llandeilo age proposed for the Davidsville Group at Weir's Pond (Blackwood, 1978).

The Davidsville Group fauna are contemporaneous with the Cobbs Arm fauna (Bergstrom *et al.*, 1974) of Notre Dame Bay and fauna from other localities in central

Newfoundland; all are of North Atlantic Faunal Province affinity.

REFERENCES

- Bergstrom, S.M.
1971: Conodont biostratigraphy of the Middle and Upper Ordovician of Europe and eastern North America. *In* Symposium on conodont biostratigraphy. *Edited by* W.C. Sweet and S.M. Bergstrom. Geological Society of America, Memoir 127, pages 83-161.
- Bergstrom, S.M., Riva, F., and Kay, M.
1974: Significance of conodonts, craptolites, and shelly faunas from the Ordovician of western and north-central Newfoundland. *Canadian Journal of Earth Sciences*, **11**, pages 1625-1660.
- Blackwood, R.F.
1978: Northeastern Gander Zone, Newfoundland. *In* Report of Activities for 1977. *Edited by* R.V. Gibbons. Newfoundland Department of Mines and Energy, Mineral Development Division, Report 78-1, pages 72-79.

CONODONT SPECIES	NORTHERN LOCALITY	SOUTHERN LOCALITY
<i>Acodus? mutatus</i> (Branson and Mehl)	+	
<i>Cornuodus longibasis</i> (Lindström)	+	
<i>Drepanoistodus ? venustus</i> (Stauffer)	+	+
<i>Eoplacognathus lindstroemi</i> (Hamar)	+	
<i>Eoplacognathus robustus</i> Bergström	+	
<i>Erraticodon ? sp.</i>	+	
New Genus cf. <i>flexuosus</i> (Barnes and Poplawski)	+	+
New Genus sp. 1 Bergström, Riva and Kay	+	
<i>Panderodus sp. cf. gracilis</i> (Branson and Mehl)	+	+
<i>Periodon aculeatus</i>	+	+
<i>Prioniodus cf. variabilis</i> Bergström	+	
<i>Protopanderodus robustus</i> (Hadding)	+	?
<i>Protopanderodus variocostatus</i> (Sweet and Bergström)	+	
<i>Pygodus serrus</i> (Hadding)	+	+
<i>Pygodus cf. anserinus</i> Lamont and Lindström	+	+
<i>Spinodus spinatus</i> (Hadding)	+	
<i>Stratchanognathus parvus</i> Rhodes	+	
<i>Walliserodus ethingtoni</i>	+	
<i>Walliserodus sp.</i>	+	
Ramiform elements	+	

Table 1: Listing of conodont fauna identified from Davidsville Group, Weir's Pond