

A new Cambrian catillicephalid trilobite from the Shallow Bay Formation of western Newfoundland, Canada

Stephen R. Westrop and Alyce A. Dengler

Acta Palaeontologica Polonica 67 (1), 2022: 27-33 doi:<https://doi.org/10.4202/app.00922.2021>

Species of *Catillicephala* are known from sites around the mid-Cambrian margin of Laurentian North America, including Vermont, Quebec, Newfoundland and North Greenland. *Catillicephala cifellii* sp. nov. is from the Downes Point Member of the Shallow Bay Formation (Cow Head Group) in western Newfoundland. It occurs in three shelf margin-derived boulders in debris flow conglomerates that accumulated in a continental slope setting. The associated trilobites and agnostoid arthropods, including *Ptychagnostus aculeatus* and *Megagnostus glandiformis*, indicate a correlation with the *Lejopyge laevigata* Zone. As such, *C. cifellii* is among the oldest representatives of the genus, and is early Guzhangian in age.

Key words: Trilobita, *Catillicephala*, Cambrian, Laurentia, North America.

Stephen R. Westrop [swestrop@ou.edu], Oklahoma Museum of Natural History and School of Geosciences, University of Oklahoma, Norman, OK 73072, USA. Correspondence address: 103 Melita Street, Ingersoll, Ontario N5C 3W3, Canada. Alyce A. Dengler [sandydengler2@yahoo.com], Oklahoma Museum of Natural History, University of Oklahoma, Norman, OK 73072, USA.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

