

FAUNAS OF THE PARADOXIDES BEDS IN EASTERN NORTH AMERICA, NO. 1.

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The following article is a contribution to a revision of the faunas of the Paradoxides beds as they are developed in eastern North America. The region where these beds are found is spread along the Atlantic sea-board from New Foundland to eastern Massachusetts, and it is not known that the genus Paradoxides existed west of the Braintree basin in that State.

In this article only the smaller crustaceans, including two genera of trilobites, are treated off. But these small fossils are as valuable for the correlation of horizons as the larger species, for they were as sensitive to a change of conditions as those, and tell the story of the subzone which they mark with as great certainty as Paradoxides itself. In fact, they are even of higher value for this purpose, as a small piece of shale will contain a fully characterized example.

In the author's former paper* an outline was given of the Cambrian system in eastern North America and its faunas, so that it seems unnecessary here to do more than call attention to the sub-divisions of the Paradoxides sub-faunas as they are developed in this region. We know of the occurrence here of

* The Protolenus Fauna. New York Acad. Sci., Vol. XIV., p. 101.