

ON THE FOSSIL CORALS OF THE DEVONIAN ROCKS OF CANADA WEST.

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The following paper contains notices of forty-three species of corals collected in the Devonian rocks of Canada West, being all that I have seen that are sufficiently well preserved to admit of description. Besides these there are in the large collection of the Geological Survey a great many specimens in a fragmentary condition which appear to belong to eight or ten other species. The total number of Devonian corals known in Canada may be estimated at about fifty. It is highly probable that a few more may be discovered, but I do not think the total will ever much exceed sixty species.

Of the forty-three species described in this paper, the following six occur in the Devonian formation in Europe:—*Favosites Gothlandica*, *F. hemispherica*, *F. basaltica*, *F. cervicornis*, *F. polymorpha*, and *Heliophyllum Halli*. *Favosites Gothlandica* is the only species that occurs in both Silurian and Devonian rocks.

It is worthy of particular notice that no species of *Cyathophyllum* have yet been found in Canada, while the genus *Heliophyllum* affords six species. My own impression is that this latter genus is only a section of *Cyathophyllum*, although in deference to the opinions of others I have recognized it as distinct.

In designating the formations I have used the term "CORNIFEROUS" as including both the Onondaga and Corniferous limestones of the New York Survey. All the species, except two, occur in this group of rocks. Only a few fossils have been collected in the Hamilton group, in Canada; and if any increase should hereafter be made in the number of species of Devonian corals, it is from these rocks they will most probably be procured.

*Genus FISTULIPORA (McCoy).**(McCoy. British Palæozoic Fossils, p. 11.)*

Generic Characters.—"Corallum incrusting, or forming large masses, composed of long, simple, cylindrical, thick-walled tubes, the