
Bulletin of the Michigan Fish Commission
No. 6

A BIOLOGICAL EXAMINATION OF LAKE MICHIGAN
IN THE
TRAVERSE BAY REGION

BY HENRY B. WARD

WITH THE FOLLOWING APPENDICES

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LANSING
ROBERT SMITH & CO., STATE PRINTERS AND BINDERS
1896

APPENDIX IV.

PRELIMINARY REPORT ON COLLECTIONS OF TURBELLARIA FROM
LAKE ST. CLAIR AND CHARLEVOIX, MICHIGAN.¹

BY W. M^CM. WOODWORTH, INSTRUCTOR IN MICROSCOPICAL ANATOMY, AND
MUSEUM ASSISTANT IN CHARGE OF VERMES, HARVARD UNIVERSITY.

A more detailed report with figures will appear in the Bulletin of the
Museum of Comparative Zoology.

The collections, though small, contribute three new species to the
Turbellarian fauna of the United States, two of which have never before
been described. In the absence of any data regarding the color and shape
of the living animals, the descriptions are necessarily based upon the
appearances of the alcoholic material.

Planaria simplex sp. nov.

One Specimen. "Dredge Aug. 11, 1894, off N. Y. Point, Lake Michi-
gan." Length 4 mm., greatest breadth 1.8 mm. General shape
ovate. Broadest at $\frac{1}{3}$ the total length from the anterior end, taper-
ing from here to rounded posterior extremity. Anterior end
rounded, set off from rest of body by slight lateral indentations at
the level of the eyes, i. e., about $\frac{1}{10}$ the total length from anterior end.
Broadest diameter $\frac{1}{2}$ the distance from anterior end. No cephalic
appendages. Mouth $\frac{1}{3}$ total length from posterior end. Eye spots
elongated, crescentic, facing outward and forward at an angle of 45°
to the chief axis of the worm. Intestine of the simple triclad
type. No signs of sexual organs. Immature. Pigment, located
in spots of nearly uniform size, distributed uniformly over all parts
of the body; no clear areas at sides of head nor surrounding the
eyes. Color of alcoholic specimen ochre yellow.

Planaria maculata Leidy.

One specimen from New Baltimore, Lake St. Clair, Aug. 20, 1893.
Seven specimens "on leaves of Nymphaea, Twin lakes, Charlevoix,
Aug. 6, 1894." Four specimens from "Utricularia-washings, West
Twin Lake, Charlevoix, Aug. 13, 1894."

¹ Contributions from the Zoological Laboratory of the Museum of Comparative Zoology, E. L. Mark,
director, No. LXIII.

* *Procotyla fluviatilis* Leidy.

"Round Lake July 9, 1894." Probably the above species. Catalogued as "white planarian." No other data.

Mesostoma Wardii sp. nov.

Nine specimens: "Turbellaria [from] algæ, Aug. 20, 1893, New Baltimore," Lake St. Clair. Length 2-3 mm., greatest breadth 1-1.4 mm. Very thin and flat. Anterior end tapering, rounded, marked off from body by a slight constriction. Posterior end tapering sharply and terminating in an acute caudal process. Pharynx large, prominent, in middle third of body. Specimens mostly immature; nothing definite could be determined regarding the sexual organs. Color of alcoholic material yellowish; very translucent.

Mesostoma viridatum M. Sch.

Seven specimens from "Utricularia-washings, West Twin Lake, Charlevoix, Aug. 13, 1894." A cosmopolitan form, but new to the United States.

* *Mesostoma viviparum* Silliman.

"Old channel, Round Lake, Charlevoix, on algæ, July 13, 1894."

* *Vortex armiger* O. Schm.

New Baltimore, Lake St. Clair, Aug. 6, 1893.

* *Vortex* sp.?

"Round Lake, Charlevoix, dredgings from old channel July 20, 1894. Length 0.96 mm., breadth 0.24-0.32 mm. Anterior end truncated posterior end pointed. Pharynx dolioform, in anterior $\frac{1}{3}$ of body, traversed by two prominent, lateral, nearly longitudinal bands of light chocolate color. Zoochlorellæ in central part of body."

Microstoma lineare Oers.

One broken stock from "Utricularia-washings, West Twin Lake, Charlevoix, Aug. 13, 1894."

* "Old channel, Round Lake, Charlevoix, July 13, 1894, in chains of 2 to 4."

* *Microstoma variabile* Leidy.

"Algæ culture, shore, Charlevoix, July 24, 1894. One specimen: chain of four individuals."

Microstoma caudatum Leidy.

Two specimens from "Utricularia-washings, West Twin Lake, Charlevoix, Aug. 13, 1894." Both stocks consisting of two individuals.

Museum of Comparative Zoölogy,
Cambridge, Mass., Jan. 31, 1896.

*The species marked with an asterisk were not sent to me. The accounts given here are from notes and drawings by Prof. H. B. Ward.