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Rzadkie gatunki glonów w planktonie stawów przesadkowych — Rare species of algae from the fish pond plankton

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When studying plankton in new carp nursery ponds at the Experimental Farm of the Laboratory of Water Biology of the Polish Academy of Sciences in Gołysz (district Cieszyn) a few interesting species of algae were found.

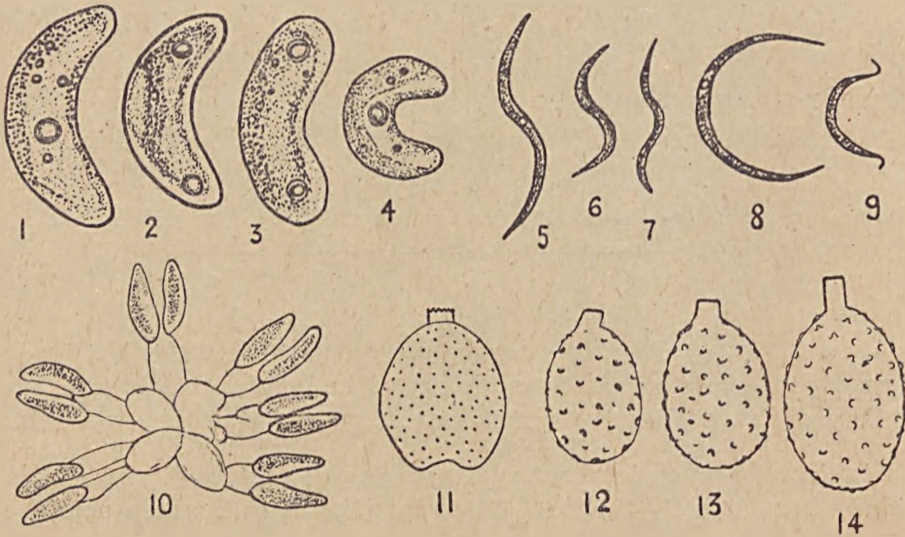
Ankistrodesmus minutissimus K o r s c h i k o v 1953 (figs. 1—4). Cells slightly bent (figs. 1—3), 10.2—13.4 μ long (distance between apices) and 3.4—4.6 μ wide were found in small numbers in the first nursery pond No. 1 on June 9 and 26, 1958.

Besides, strongly bent cells (fig. 4) with an almost orbicular contour, 7.1—11.2 μ long and 2.1—3.1 μ wide were found. Several of these cells were somewhat smaller than those described by K o r s c h i k o v (1953) and similar to those observed by H o r t o b á g y i (1962). They appeared in small numbers in the first nursery pond No. 2 on June 15, 1960.

Ankistrodesmus angustus B e r n. (K o r s c h i k o v 1953) (figs. 5—9). Cells strongly or slightly spirally twisted (figs. 5—7) or arcuately bent (fig. 8) were the most often noted. Cells arcuately bent with hooked ends (fig. 9), similar to those noted by H o r t o b á g y i (1962; as *A. falcatus* (C o r d a) R a l f s var. *spirilliformis* G. S. W e s t) were more rarely present. Cells always very small, 4.9—15.3 μ long (distance between apices), 0.5—1.3 μ wide. K o r s c h i k o v, H o r t o b á g y i, as well as S k u j a (1955; as *A. falcatus* (C o r d a) R a l f s var. *spirilliformis* G. S. W e s t) note also a larger size of cells. It is a striking fact that larger specimens never occurred in my material. This species appeared frequently, sometimes in masses, in the first nursery ponds Nos. 1, 2, 3, and 4, and in the second nursery ponds Nos. 5, 6, 7, and 8, in the years 1958—1960.

Dichotomococcus curvatus K o r s c h i k o v 1939 (F o t t 1948 as *D. elongatus* sp. n.) (fig. 10). Colony 45.5 μ in diameter consists of 12 lanceolately

elongate cells, 7.1—7.5 μ long and 1.9—2.2 μ wide. Only one specimen was found in the second nursery pond No. 7, on June 15, 1960. This species was mentioned from Poland in a general way by Fott and Komárek (1960).



Figs. 1—14: 1—4. *Ankistrodesmus minutissimus*; 5—9. *A. angustus*; 10. *Dichotomococcus curvatus*; 11. *Trachelomonas Reinhardi*; 12, 13. *T. scabra*; 14. *T. scabra* var. *longicollis*.

Trachelomonas Reinhardi Svirenko (Huber-Pestalozzi 1955) (fig. 11). Cell 24 μ long, 21.5 μ wide; collar 2.5 μ high, 3.2 μ wide. Other features as in the diagnosis. Found only once in the second nursery pond No. 3, on June 6, 1959.

Trachelomonas scabra Playf. (Huber-Pestalozzi 1955) (figs. 12, 13). Cells 21.5—23 μ long, 15.5—18 μ wide, collar 2—2.3 μ . Pellicle more verrucose, similar to that described in Behre's work (1961). Other features as in the diagnosis. Noted in small numbers in the first nursery ponds No. 3, on June 9 and 11, 1958 and No. 4, on June 2 and 4, 1959.

Trachelomonas scabra Playf. var. *longicollis* Playf. (fig. 14). Cell 27.5 μ long, 18 μ wide. Collar 5.5 μ high, 2.7 μ wide. Other features as in the diagnosis. Found only once in the first nursery pond No. 4, on June 2, 1959.

I should like to express my gratitude to Dr. J. Siemińska for her kind assistance and advice in preparing this paper.

STRESZCZENIE

W planktonie nowo wybudowanych karpioowych stawów przesadkowych w Gołyszcu (pow. Cieszyn) znaleziono kilka interesujących gatunków glonów.

Ankistrodesmus minutissimus Korschikov 1953 (ryc. 1—4). Notowano komórki słabo, albo silnie wygięte. Niekiedy mniejsze niż u Korschikova (1953), a podobne do opisanych przez Hortobágyi (1962).

Ankistrodesmus angustus Bern. (Korschikov 1953), (ryc. 5—9). Komórki o różnych kształtach, zawsze bardzo małe. Korschikov (1953), Hortobágyi (1962) i Skuja (1955) podają także większe wymiary komórek.

Dichotomococcus curvatus Korschikov 1939 (Fott 1948; jako *D. elongatus* sp. n.), (ryc. 10). Gatunek znaleziony jednorazowo. Podany z Polski ogólnikowo przez Fotta i Komárka (1960).

Trachelomonas Reinhardi (Svirenko) (Huber-Pestalozzi 1955), (ryc. 11). Wystąpił jednorazowo w pierwszej dekadzie czerwca.

Trachelomonas scabra Playf. (Huber-Pestalozzi 1955), (ryc. 12, 13). Komórki o błonie bardziej brodawkowanej, podobnie jak u Behre (1961). Notowany sporadycznie.

Trachelomonas scabra Playf. var. *longicollis* Playf. (ryc. 14). Znaleziono tylko 1 okaz, w pierwszych dniach czerwca.

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