



ANNA HILLBRICHT- ILKOWSKA

1932, POLAND

Vice-President of the International Society of Limnology (1995-2001), and editor-in-chief of the Polish Journal of Ecology.

She is known for her studies on the biology and ecology of rotifer plankton in lakes.

She also contributed to our knowledge of the dynamics of nitrogen and phosphorus in aquatic-terrestrial-atmospheric ecotones, as well as the role of these systems in the landscape.

HERSTORY

During the World War II, she lived in a basement, attended to secret classes at school and escaped from her own town to survive. Despite this, she managed to go to the university.

EUTROPHICATION & ALGAE BLOOMS

Eutrophication

1. Increases algal blooms

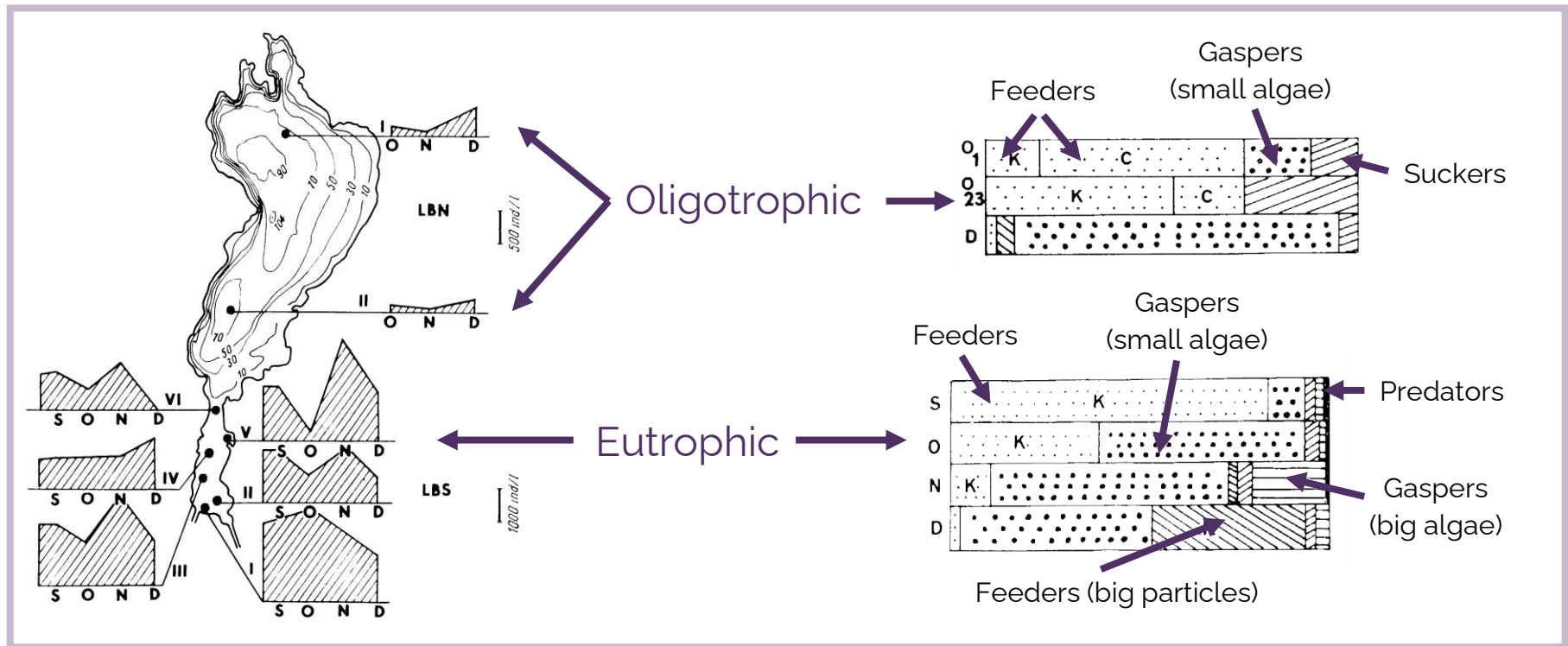
Trophic category	Total P (mg/m ³)	Mean Chl A (mg/m ³)	Max Chl A (mg/m ³)	% O ₂ at the bottom
Ultra-oligotrophic	≤ 4.0	≤ 1.0	≤ 2.5	90
Oligotrophic	≤ 10.0	≤ 2.5	≤ 8.0	80
Mesotrophic	10-35	2.5-8	8-25	40-89
Eutrophic	35-100	8-25	25.75	40-0
Hypertrophic	≥ 100	> 25	>75	10-0

Anna Hillbricht-Ilkowska & Rajmund J. Wisniewski. (1993). Polish Journal of Ecology.

EUTROPHICATION & PLANKTON DYNAMICS

Eutrophication

1. Increases algal blooms
2. Changes the abundance and diversity of planktonic communities.



Anna Hillbricht-Ilkowska. (1983). Japanese Journal of Limnology.

RELEVANT CONTRIBUTIONS

Hillbricht-Ilkowska, A. (1983). Morphological variation of *Keratella cochlearis* (Gosse) in Lake Biwa, Japan. *Biology of Rotifers. Developments in Hydrobiology*, 14. Springer.

Hillbricht-Ilkowska, A. (1983). Response of planktonic rotifers to the eutrophication process and to the autumnal shift of blooms in Lake Biwa, Japan. *Japanese Journal of Limnology*, 44, 107-115.

Hillbricht-Ilkowska, A. (1999). Shallow lakes in lowland river systems: Role in transport and transformations of nutrients and in biological diversity. *Shallow Lakes*, Springer.

Hillbricht-Ilkowska, A., Wisniewski, R.J. (1993). Trophic differentiation of lakes of the Suwalki Landscape Park and its buffer zone. Present state, changes over years, position in trophic classification of lakes. *Polish Journal of Ecology*, 41, 195-219.

Hillbricht-Ilkowska, A. (2002). Eutrophication rate of lakes in the Jorka river system: long-term changes and trophic correlations. *Polish Journal of Ecology*, 50, 475-487.

LOOKING
FOR MORE?

You can find more information about her story and research at:

<https://mikolajki.nencki.gov.pl/ludzie/anna-hillbricht-ilkowska/?lang=en>

<https://relacjebiograficzne.pl/demo/audio/219-anna-hillbricht-ilkowska>