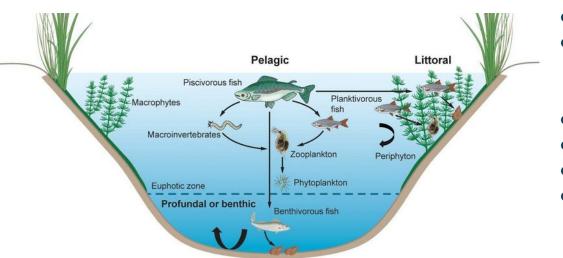


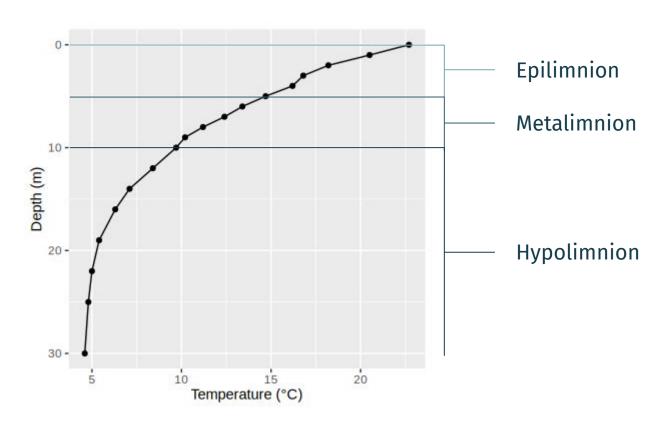
Recap

Pelagic zone - refers to an area that is not close to the shore nor to the bottom of an open body of water. It is identified by the amount of light sufficient for photosynthesis

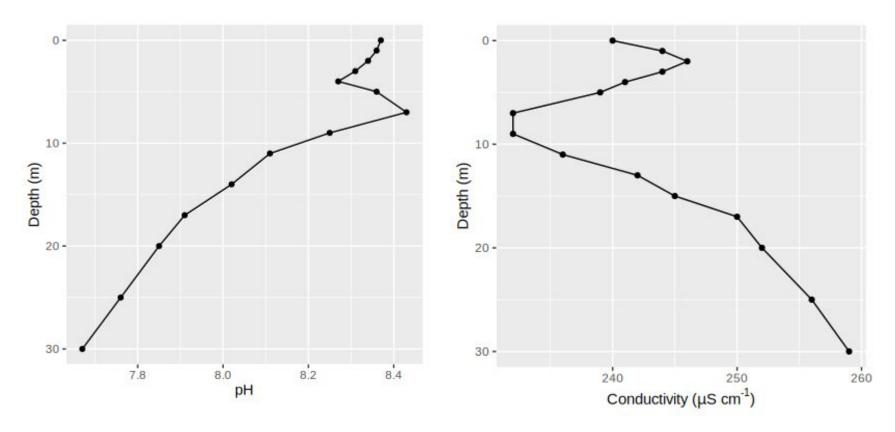


- Temperature
- Oxygen levels in absolute numbers and the percentage of saturation
- pH
- Conductivity
- Light absorption/ attenuation
- Turbidity using a Secchi disc

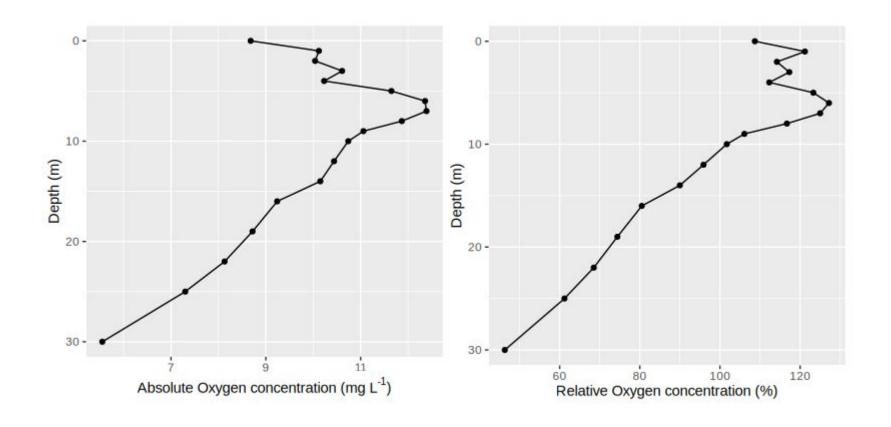
Temperature profile



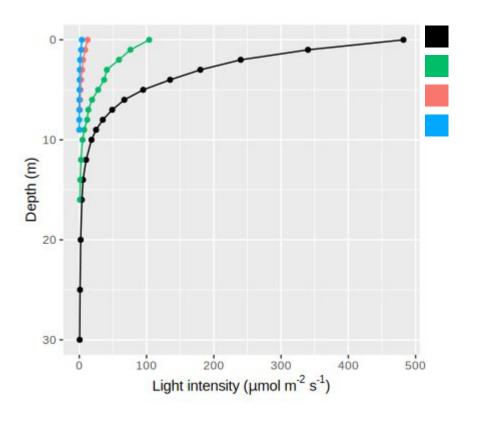
pH and Conductivity



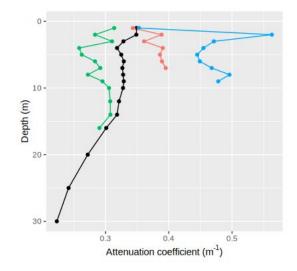
Absolute and relative O2



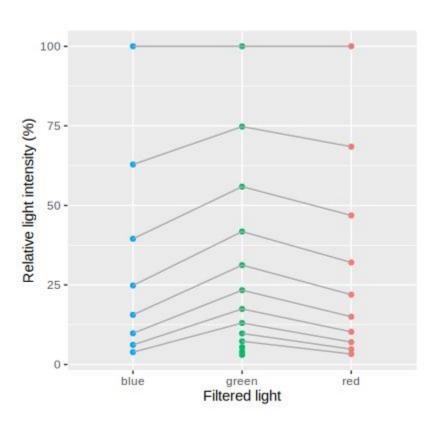
Light absorption



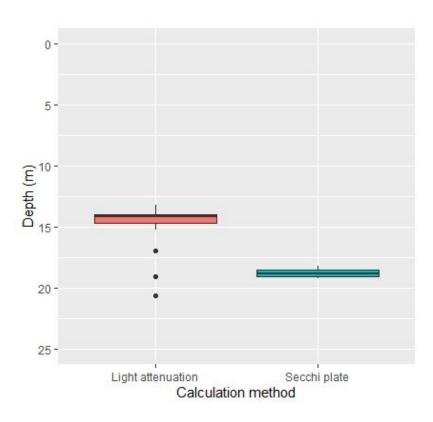
Light Green filtered light Red filtered light Blue filtered light



Light absorption



Euphotic zone



Relative species abundances

	Class	Organism	Lunzer Untersee	Fishpond
	Bacillariophyceae	Asterionella sp.	2	0
	Bacillariophyceae	Navicula sp.	1	0
	Bacillariophyceae	Aulacoseira sp.	0	2
	Bacillariophyceae	Nitzschia sp.	0	1
	Bacillariophyceae	Surirella sp.	0	2
	Chlorophyta	Botryococcus sp.	0	1
	Chlorophyta	Dictyosphaerium sp.	0	1
	Chlorophyta	Elakatothrix viridis	1	0
	Chlorophyta	Kirchneriella sp.	0	1
	Chlorophyta	Nephrocytium sp.	2	0
	Chlorophyta	Oocystis sp.	2	0
Phytoplankton	Chlorophyta	Pediastrum boryanum	0	1
	Chlorophyta	Pediastrum duplex	0	2
	Chlorophyta	Pediastrum simplex	0	1
	Chlorophyta	Phacotus lenticularis	2	2
	Chlorophyta	Planctosphaera gelatinosa	1	0
	Chlorophyta	Sphaerocystis schroeteri	1	0
	Chlorophyta	Staurastrum sp.	2	0
	Chrysophyceae	Dinobryon sp.	4	1
	Cyanophyceae	Microcystis sp.	0	1
	Cyanophyceae	Phormidium sp.	0	1
	Dinophyta	Ceratium hirundinella	4	0
	Dinophyta	Peridinium sp.	2	1
	Euglenophyta	Colacium calvum	1	0
	Euglenophyta	Euglena acus	0	2
	Euglenophyta	Euglena oxyuris	0	4
	Euglenophyta	Lepocinclis texta	0	1

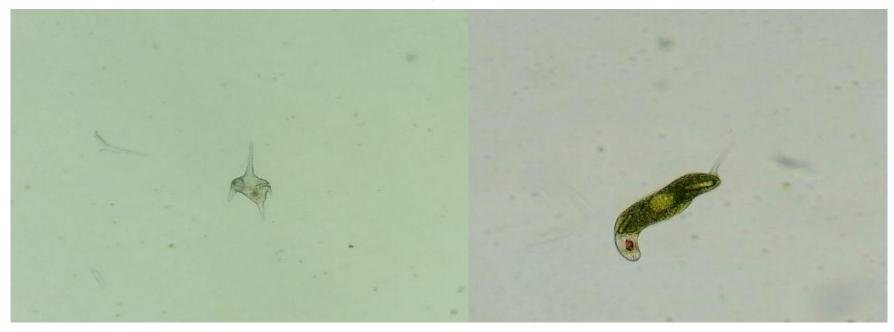
	Class	Organism	Lunzer Untersee	Fishpond
Zooplankton	Cladocera	Alona sp.	0	1
	Cladocera	Bosmina longirostris	2	2
	Cladocera	Daphnia cucullata	0	1
	Cladocera	Daphnia longispina	2	0
	Cladocera	Leptodora kindtii	0	1
	Copepoda	Cyclops sp.	3	0
	Copepoda	Eudiaptomus gracilis	2	0
	Copepoda	Nauplius larva	4	3
	Diptera	Chironomidae larva	0	1
	Platyhelminthes	Turbellaria (indet.)	0	1
	Rotatoria	Ascomorpha ecaudis	1	1
	Rotatoria	Asplanchna priodontal	2	0
	Rotatoria	Brachionus sp.	0	2
	Rotatoria	Filinia longiseta	1	2
	Rotatoria	Kellicottia longispina	3	0
	Rotatoria	Keratella cochlearis	3	0
	Rotatoria	Keratella quadrata	1	0
	Rotatoria	Polyarthra vulgaris	1	4
	Rotatoria	Synchaeta sp.	0	1
	Thecamoeba	Centropyxis aculeata	0	1

^{*}widespread species such as marked in BLUE are characteristic of nutrient-poor, clean water

^{*}potential bioindicators are marked in RED

Relative species abundances

Phytoplankton

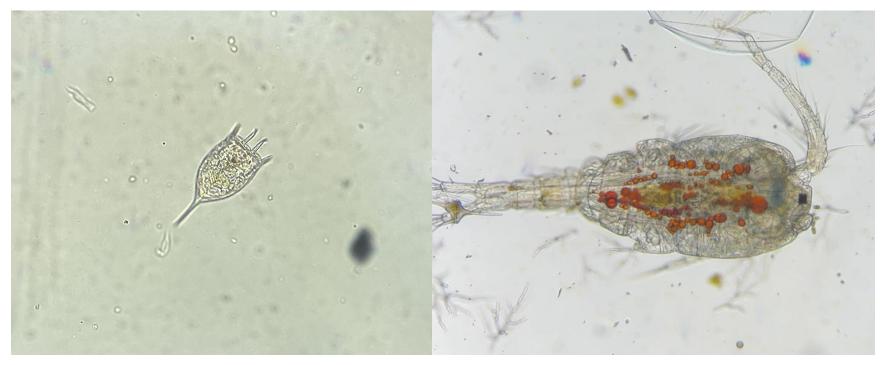


Ceratium hirundinella

Euglena oxyuris

Relative species abundances

Zooplankton



Keratella cochlearis

Cyclops sp.

Summary

- The thermocline is estimated to be at 7-10 meters depth
- The euphotic zone is estimated to finish between 14-18 meters depth
- The most abundant species are Euglena oxyuris (Fish pond) and Ceratium hindurella (Lunzer See)

