

Conductivity

pollutioned water has high conductivity. But pure water has low conductivity.
Research electric current in the water.

Dissolved Oxygen

It is oxygen's measure which is comprised in the water.



Monochria korsakowii

They are plants which are living in rice fields lakes and marshes.
They are not found to be an endangered species now.

Odontbutis obscura

They are pure fresh water fishes which are living in rivers and lakes
They die soon in polluted water because they are very delicate.

Ecology research of Thuchibuchi river

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Purpose

目的

- We researched the eco-system and environment around Kudoji and Tsuchibuchi river.
- We compared it to other zones, and clarify the actual situation.
- We researched the function of the river and we are going to think of an improvement plan.

Hypothesis

仮説

- Since the area of the Tsuchibuchi is different from what it was we thought there would be in creatures around there.
- Are there any *Monochoria korsakowii* plants to register in the Red List?

Method

方法

- We are going to go to the Tsuchibuchi river.
- We will get water from the river.
- We will research and measure the conductivity and dissolved oxygen in the water.
- We observe wild animals and creatures in water.
- We observe improvements around the river.
- We get the information of the working and cause of pollution.

Research Method

- we do field work actually.
- we researched water from river.

Research Result

Water 水質

	The upper reaches	midstream	downstream	faucet
pH	8.2 (alkaline)	7.1 (neutral)	7.4 (neutral)	7.2 (neutral)
dissolved oxygen 溶存酸素量	6.4 mg/L	8.4 mg/L	8.3 mg/L	8.2 mg/L
Conductivity 導電率	11 μs/cm	9 μs/cm	32 μs/cm	16 μs/cm

- Midstream and downstream were not different from ordinary rivers.
- But the upper reaches' dissolved oxygen was little and conductivity was high. So we found there is a lot of waste and the water is polluted.

environment • creature

環境-生物

- The upper reaches was congested and we can't find creatures.
- We found the carcass of the fish, called odontobutis obscura.
- Monochoria korsakowii was not in season so we will go to do fieldwork at next chance.

Analysis, conclusion

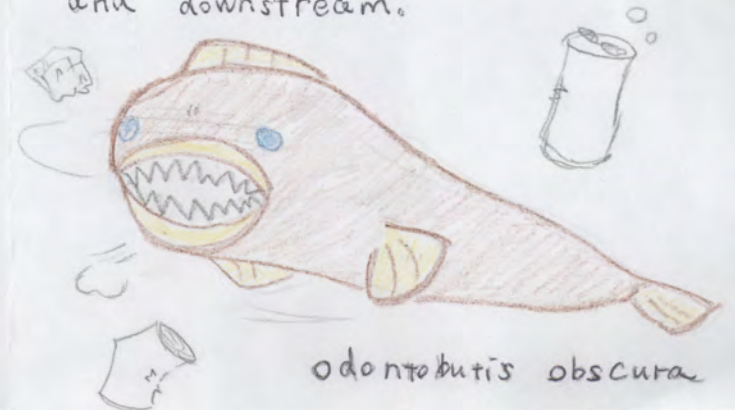
考察 結論

◀ About the quality of the water ▶

- The upper reaches' water has little oxygen dissolved and a lot of waste was dissolved in the water. So we thought that there is some kind of cause in the upper reaches since there was a large outbreak of phytoplankton.
- When we got water from the river from now on, we decided to research there from river.

◀ About creatures and around environment ▶

- The downstream area where we found *odontobutis obscura* is where *odontobutis obscura* can't live in the environment naturally, because we thought it possible due to change of the ecology.
- In future we will look for it in fieldwork.
- We will pick up trash from midstream and downstream.



odontobutis obscura