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Taxonomy study of Ostracoda

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Ostracoda (Class)

- A class of Crustacea
- Marine and freshwater all over the world
- Fossil of shell (CaCO3)
- **Ecological limit** (<u>temperature</u>, salinity, etc)



Why is this study important?

Useful for...

Climate Change

Big objective (temperature change)

Global temperatures over the past 800,000 years





Ecological limit

Abundant sp. Estimate the climate change Warm Cold

Deeper (older)



Ecological limit

Location of marine water and sediment monitoring stations in Port Shelter Water Control Zone



Take sample



Sprinkle the sample



Separate ostracod from sample



Identification

• Morphology

Identification traits

- Appearance
- Adductor muscle scars
- Hinge



Result -identification-







Neomonoceratina delicata

Propontocypris sp.1



Cornucoquimba cf. gibboidea

How about making **photo book** of Ostracoda?

Summery

- Pick up Ostracoda from sample sediment and identify the species
- There are **5 species** of Ostracoda inside of the sample

What we learn

Combination of subjects in the study Future connection

Combination of subjects in the study



Ecological limit



Important to **understand** the studies

Thank you so much

Prof. Yasuhara Moriaki

May