

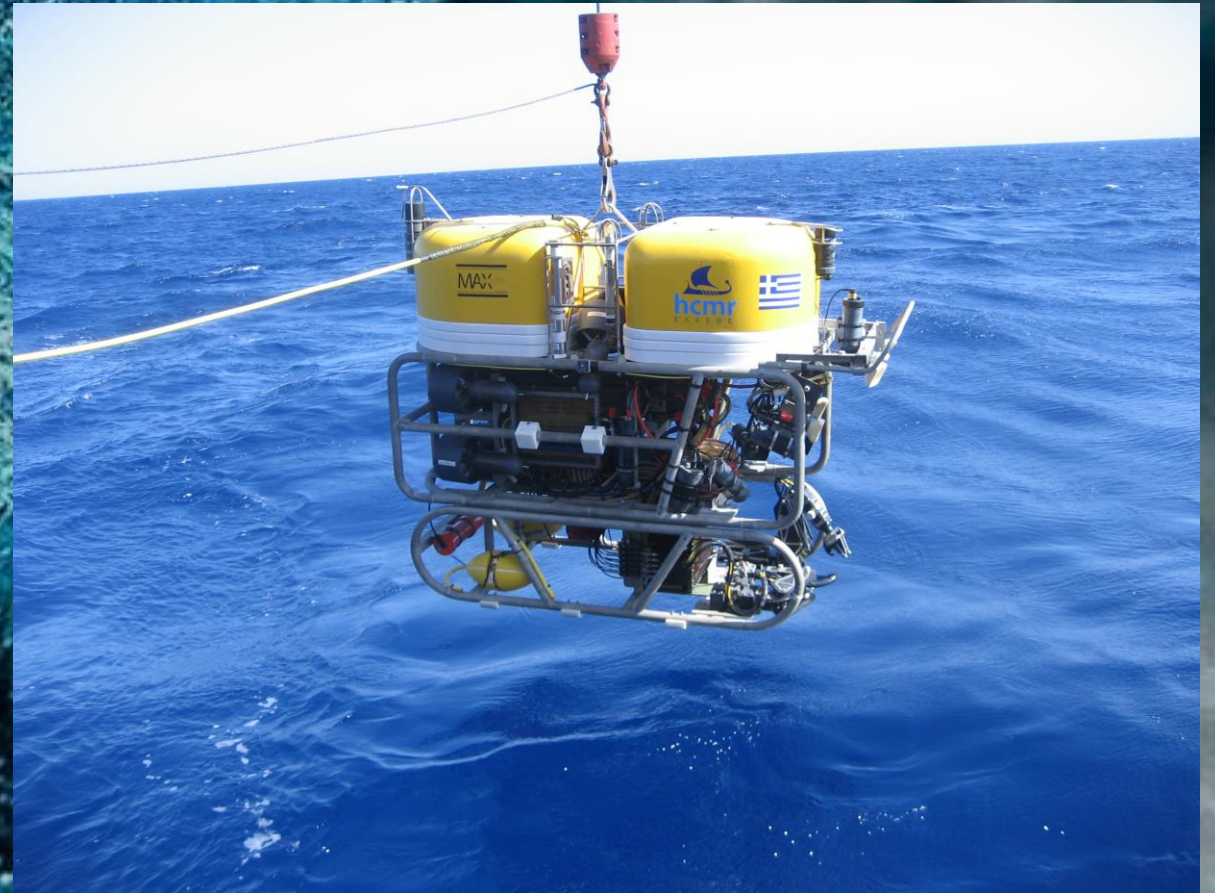


ROV Sampling methods

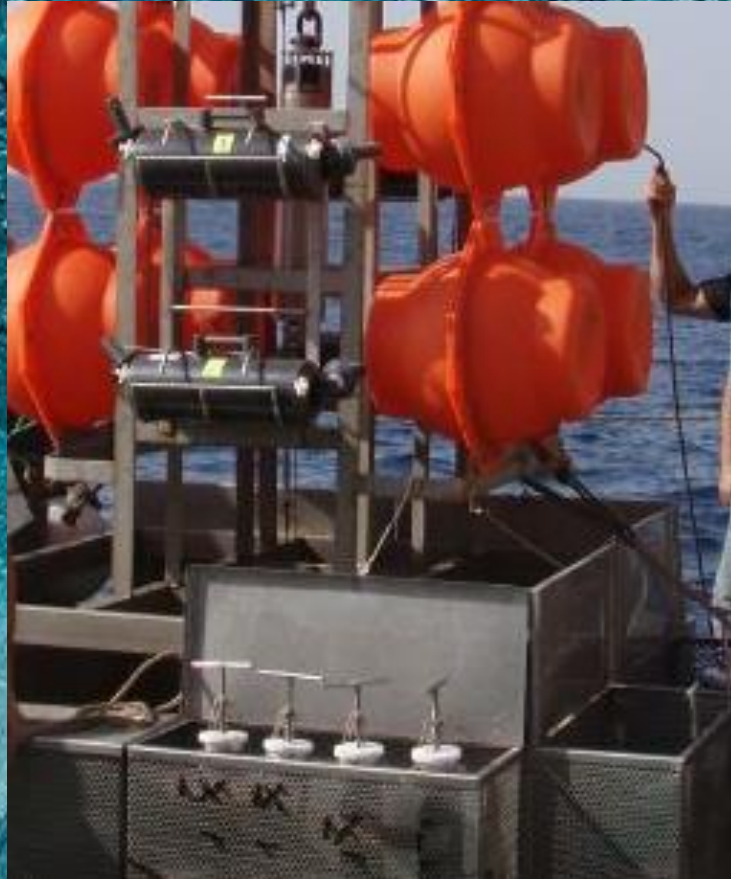
Hellenic Center for Marine Research - ROV team

How do we use a ROV during science missions?

- Remotely Operated Vehicles are mostly used for exploring monitoring and sampling in areas with great scientific interest!



ROV Sampling methods

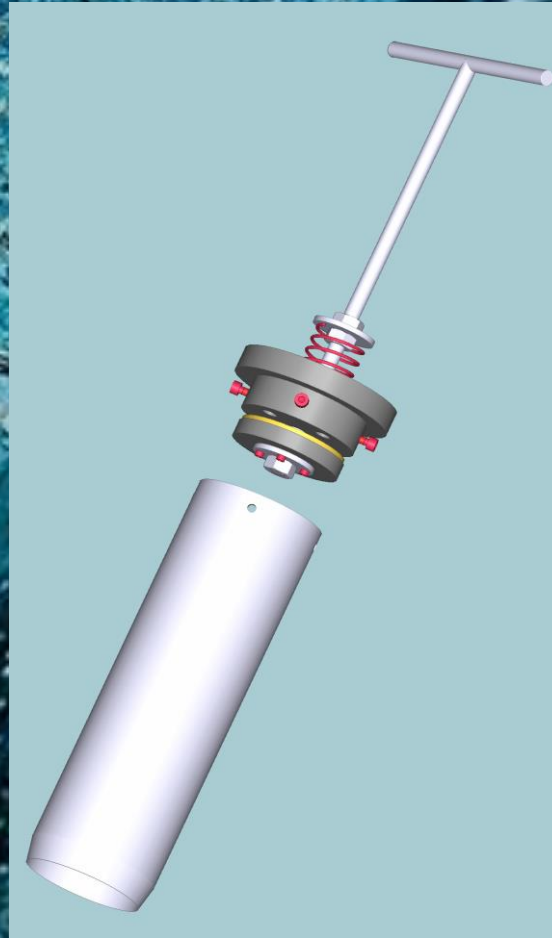


In order to take samples for different purposes we need to use specific instrumentation attached on our ROV.

Here we see a sampling structure designed and used specially by the MaxRover ROV.

ROV Sampling methods

Sediment sampling



Push Corers are plexi glass tubes that we use in order to take undisturbed sediment samples. This gives us the opportunity to study the sea floor of areas with great scientific interest.

ROV Sampling methods

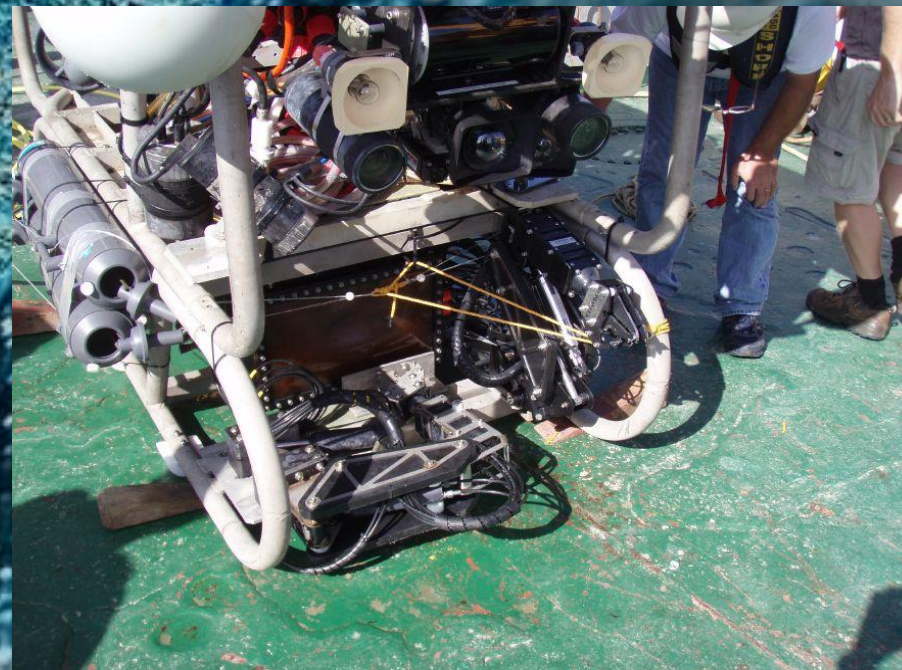
Megafauna sampling



Megafauna sampling can be performed by using the ROV manipulators and special designed instrumentation.

ROV Sampling methods

Water sampling



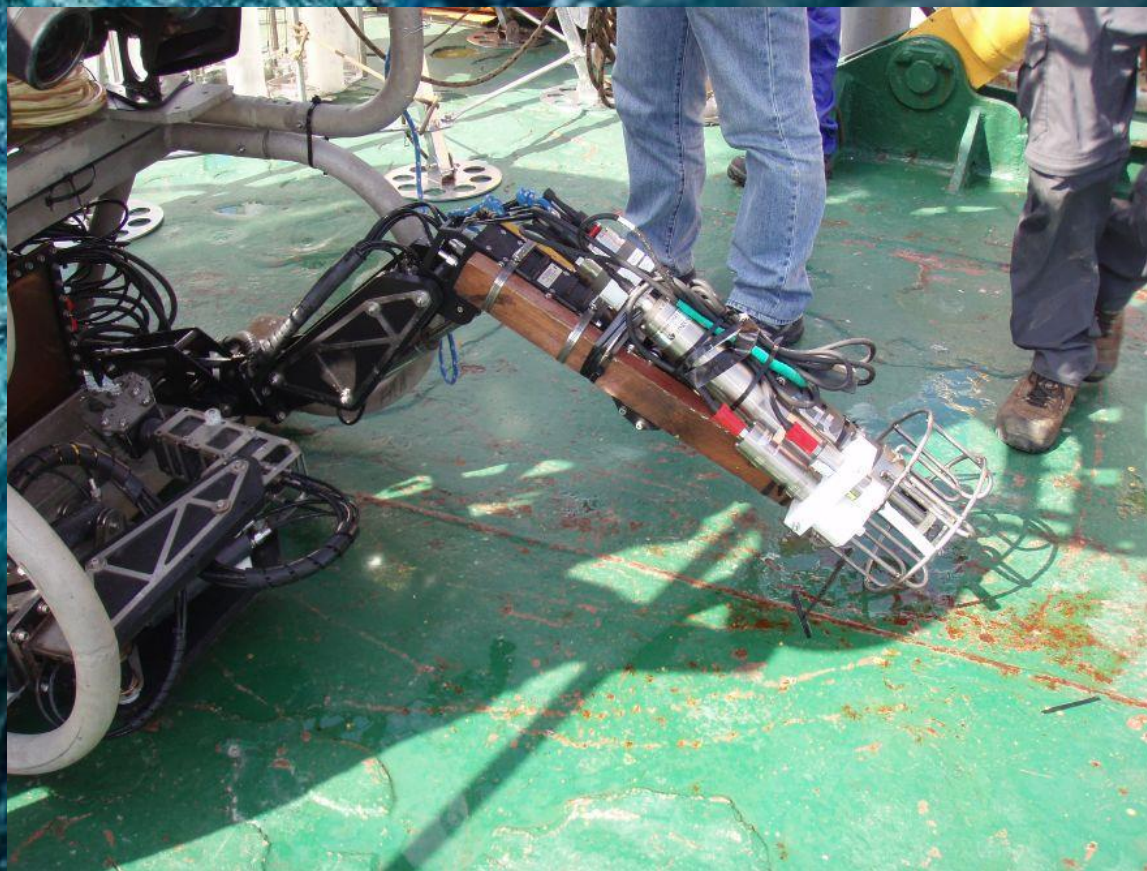
We can use NISKIN bottles to collect sea water from different depths and micro environments.

ROV Sampling methods

Data sampling

By attaching sensors on our ROV, we can collect significant amount of data for most of the sea water parameters.

This data can be transmitted directly to the ROV control room in real time.





THANK YOU

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