

ROPOS

CANADIAN SCIENTIFIC SUBMERSIBLE FACILITY

SCIENCE FIRST.

A global leader in remotely operated submersible systems.

SCIENCE DRIVEN.

Our world-class ROV is designed for science-based research missions and piloted by the most experienced technicians available.

SCIENCE READY.

Our ROV is designed and equipped with leading edge technology, premium HD video cameras and instrumentation.

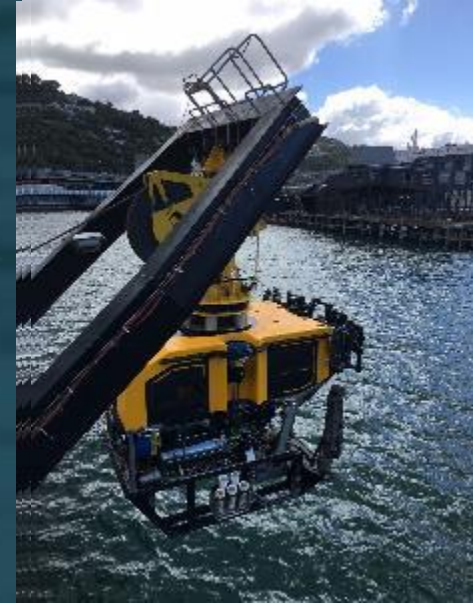
SCIENCE NOW.

With our technology and tools, fewer ship days are required and multiple experiments can be conducted at one time. Deployment is also fast and efficient.



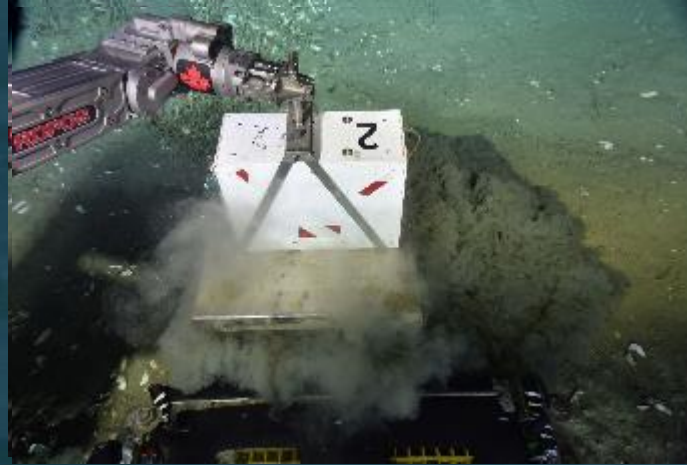
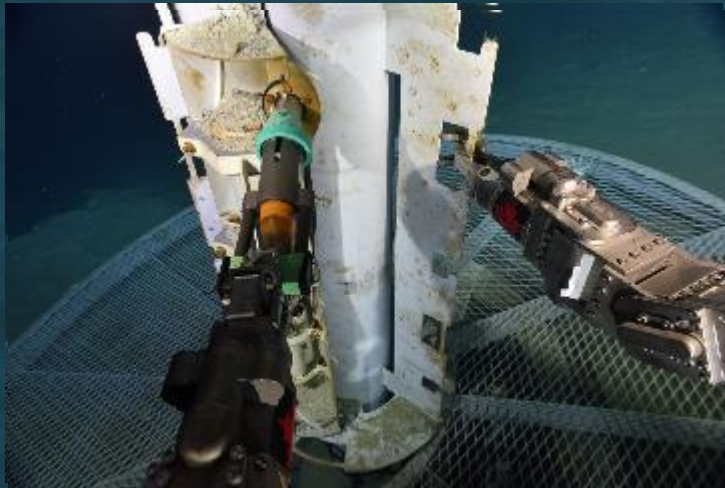
Expedition Overview

- International collaboration
- Hikurangi Subduction Zone, NZ
- Study of slow-slip events and large earthquakes
- GNS New Zealand provided the ship (*NIWA RV Tangaroa*)
- NSF/UW supplied the ROV system (*CSSF ROPOS*)
- Recovery of instrument systems, downloading of data from CORKS/BPRs, exploration



Expedition Statistics

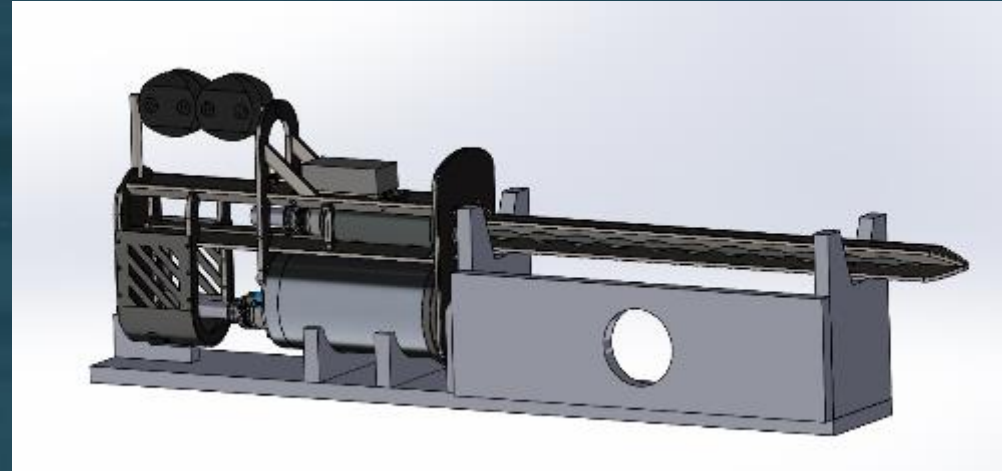
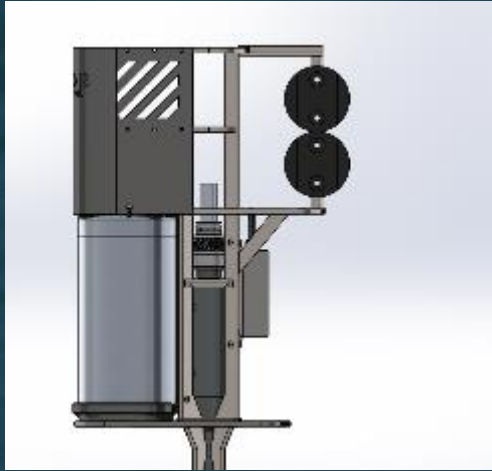
- 18 Operational Days
- 23 ROV Dives
- 176 Hours in the water
- 17 Osmotic Samplers recovered
- 8 Years of CORK/BPR Data downloaded
- 20 Push Cores collected
- 2 Gas Tight Samples taken
- 27 Geological Samples collected
- 54+ Biological Samples collected



ROPOS

Operations on Tangaroa

Autonomous Temperature Acquisition Probe (ATAP)



- Six high temperature sensors along the 60cm. probe stab, from which a temperature signature can be observed.
- The optical link will be able to Start/Stop logging, upload a data file and allow the user to setup for each thermistor channel.
- The file from the ATAP logger will be compatible with the ROV logging system and can be uploaded post-dive or interrogated real-time after optical upload. It can then be reviewed like any other part of the logging system.

Upcoming Events

1. Operations in the Indian Ocean - October 2021 to January 2022 with a couple of clients.
2. Hot Vent Fluid Sampler development – 7 discrete samples.
3. ROCS in Action - coring the seafloor in December 2021!
4. 4K Camera – developing a workflow and conducting a market study.
5. Pilot Camera - new in-house development of an HD-SDI low-light wide-angle camera.
6. Smart Gas Tight Sampler development - elec. trigger, wireless comms, temperature.
7. New Fibre Optic system – moving away from Focal 903.
8. Subsea Geiger Counter – in development.
9. Autonomous operations - winch, tracking ROV depth.

Please give us a call to call to discuss all your benthic science requirements

Thank you
Questions?



Visit us at: www.ropos.com