



FILMING FISH!

Comparing stereo vs downward-facing baited remote underwater video systems (BRUVs)

Q. Which BRUV system is more accurate for estimating fish population characteristics, like abundance, diversity and individual length?



Fig 1. Stereo BRUV shot of the whole habitat



Fig 2. Downward-facing BRUV shot of the seafloor

Stereo: 2 horizontal-facing cameras (wider field of view that captures more fish)

Downward: 1 downward-facing camera (smaller field of view)

WHY?

- BRUVs are common monitoring tools but we don't know which system is best suited for monitoring the Otago coast
- Provides information for local biodiversity and fisheries resources
- Better marine reserve and protected area management

HOW?

- Deployments of L-frames and stereo BRUVs in the same locations
- 1 hours recordings
- Look at fish counts, what species are present, body lengths and the optimal length of recording times



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Did you know... stereo BRUVs are calibrated to take 3D measurements of fish?

