

Fish length measurements using the EK80 echo sounder: distribution of anchovy ecHo-sizes in Atacama Region, Chile 2023.

Technologies and methods available for habitat monitoring

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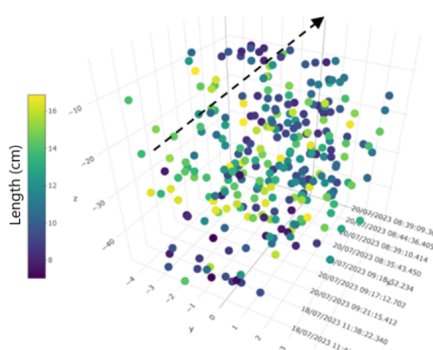
1 Intro

- There are certain situations where it is not feasible to collect biological samples. (Øvredal y Totland, 2002). You have the chance to approximate the size of the fish. (Simmonds MacLennan, 2005).
- This study aims to estimate the size distribution of anchovy in the Atacama Region for July 2023."

2 Methods

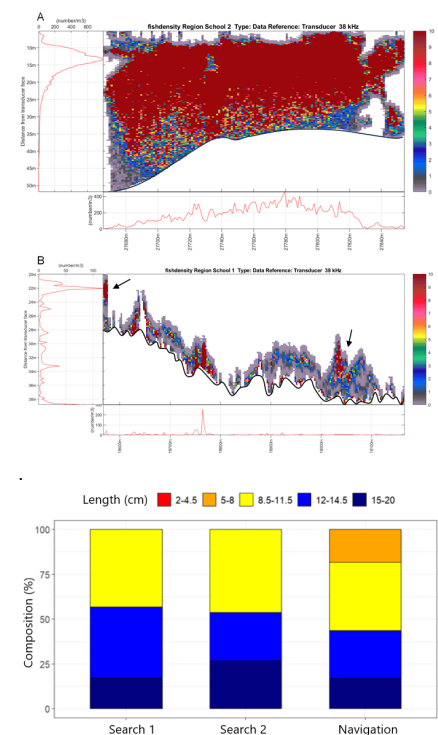
- N = 318 (Tracked and Single target Lacroix et al., 2020)
- $L(\text{cm}) = 10^{\frac{TS38kH_z + 71,352}{18,134}}$ (IFOP, 2022)

3 Results



- Echo-size anchovy
- Range: 8,5-16 cm
- Mode: 12,0 cm
- Juveniles: 45.8%

Extra figures



- Opportunity to estimate biomass, in special cases.
- The challenges related to detecting echoes.

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