

## PI-16

# A study of feeding habits of three tonguefish species collected in the coastal water off Yosu, Korea

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## INTRODUCTION

This study examined ontogenetic and seasonal changes in feeding habits of *Cynoglossus joyneri*, *C. robustus* and *C. abbreviatus* in the coastal water of Korea.

## MATERIALS AND METHODS

Fish samples used for this study were collected monthly in the coastal water off Yosu between January 2001 and December 2001. Stomach contents of three tonguefish species were examined quantitatively.

## RESULTS AND DISCUSSION

The main prey items of three tonguefish species were amphipods, bivalves, polychaetes, crabs, shrimps and gastropods. They showed ontogenetic changes in feeding habits. Individuals of small size fed mainly on small prey organisms such as amphipods. However, larger shrimps, crabs, polychaetes and bivalves were consumed with increasing fish size. Ochiai (1966) reported that these three tonguefish species collected around Japan did not feed on fish. However, larger individuals of *C. robustus* and *C. abbreviatus* collected in this study consumed fish.

## REFERENCES

1. Ochiai, A. 1966. Study about biology and morphology of Cynoglossidae in Japan. Misaki Marine Biological Station, Tokyo University Press, Tokyo