

ANATOMY OF THE HEAD OF THE JUVENILE MARBLE GOBY
(*Gobius aureus*)

W. S. HARRIS

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

UNIVERSITY OF CALIFORNIA, BERKELEY

Q/N 5651

1100057955

Perpustakaan Sultanah Nur Zahirah (UMT)
Universiti Malaysia Terengganu



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PERPUSTAKAAN SULTANAH NUR ZAHIRAH
UNIVERSITI MALAYSIA TERENGGANU (UMT)
21030 KUALA TERENGGANU

1100057955		

Lihat sebelah

PERPUSTAKAAN SULTANAH NUR ZAHIRAH UMT

A SURVEY ON STOMACH CONTENT OF JUVENILE MARBLE GOBY
Oxyeleotris marmoratus

Mohd. Shamree Bin Suriansa

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May Allah S.W.T bless all of you... Wassalam.

ABSTRACT

This study was conducted to determine the food preference or feeding habits of *Oxyeleotris marmoratus* with common name Marble goby belong to family Eleotridae. The total of 65 of *Oxyeleotris marmoratus* from one locality namely Sungai Kiang, Tasik Kenyir Terengganu collected during the period of September 2006 to December 2006 using a simple net scope sampling technique were analyzed for stomach content determination. The diet of fish was recorded and analyzed via frequency of occurrence and relative abundance method. Result suggested that *Oxyeleotris marmoratus* feed most on fish larvae (Marble goby larvae, Toman larvae), followed by insect (aquatic benthos insect), others (debris or humus, unidentified item, and sand), mollusk (small snails), and shrimp occasionally. Feeding consumption of *Oxyeleotris marmoratus* are depend on the environmental factors such as weather and water quality. There are significant changing in feeding consumption where the main item differs between first sampling (September 2006) and second sampling (December 2006). The main item in stomach content analysis shift from fish larvae to insect due to monsoon season that occur during second sampling. The result on this study shows that *Oxyeleotris marmoratus* are strongly carnivorous predator, a nocturnal hunter plus eat only on moving organism on the stream benthos.

ABSTRAK

Kajian ini telah dijalankan untuk menentukan tabiat pemakanan ikan *Oxyeleotris marmoratus* atau dengan nama amnya Marble goby atau ikan Ketutu yang terletak dalam keluarga Eleotridae. Sejumlah 65 ekor *Oxyeleotris marmoratus* dari satu kawasan kajian bertempat di Sungai Kiang, Tasik Kenyir, Terengganu telah berjaya ditangkap sepanjang tempoh dari bulan September 2006 hingga Disember 2006 dengan menggunakan kaedah sauk ringkas dan diet ikan telah dianalisis dalam makmal. Diet ikan *Oxyeleotris marmoratus* telah dicatakan dan dianalisis menggunakan kaedah kelimpahan relatif dan kekerapan kehadiran. Keputusan menunjukkan *Oxyeleotris marmoratus* mengambil makanan paling dominan adalah larvae ikan (larva Marble goby, larva Toman), di ikuti oleh kumpulan serangga (serangga akuatik), lain-lain (debris atau humus dan pasir), moluska (siput kecil), dan terdapat juga kelas krustasia seperti udang. Terdapat perbezaan statistik yang ketara dalam pengambilan makanan diantara waktu kajian pertama (September 2006) dan waktu kajian kedua (December 2006). Sumber makanan utama *Oxyeleotris marmoratus* berubah dari larva ikan kepada serangga dan molluska sinonim dengan perubahan musim kepada musim tengkujuh pada waktu kajian kedua. Keputusan yang dicatatkan dari kajian ini menunjukkan *Oxyeleotris marmoratus* adalah pemangsa karnivor yang memburu mangsa dan memakan hanya haiwan lain terutamanya yang melakukan pergerakan di dasar air.