

ENDOPARASITE IDENTIFICATION IN PARROTFISH,
Sparus presbiguttatus, AT MARINE PARK CENTER,
REDANG ISLAND

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Endoparasit identification in parrotfish, Scarus prasiognathos, at marine park center, Redang Island / Kiew Woon Ley.



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ENDOPARASITE IDENTIFICATION IN PARROTFISH, *Scarus prasiognathos*,
AT MARINE PARK CENTRE, REDANG ISLAND

By

KIEW WOON LEY

Research Report submitted in partial fulfillment of
the requirements of the degree of
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**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK PENYELIDIKAN I DAN II**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

Endoparasite Identification in Parrotfish, *Scarus prasiognathos*, at Marine Park Centre, Redang Island oleh Kiew Woon Ley, No. Matrik UK 5576 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Samudera sebagai memenuhi sebahagian daripada keperluan memperolehi Ijazah Sarjana Muda Sains Biologi Marin, Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

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ABSTRACT

As the important of the marine fish is being concern, more studies should be carried in order to contribute in particular field. This research had identified the endoparasite of parrotfish, (*Scarus prasiognathos*) in Marine Park Center, Redang Island. Fish were collected by handling net, identified, measured and gutted for stomach content determination. Parasite were fixed in 70 % ethanol and stained in Mayer's carmalum. Glacial Acetic Acid was used as dehydrant process. Cleared overnight in clove oil and mounted in Canada balsam. Prevalence and mean intensity of infection were calculated for each parasite species. In this study, a total of 3 difference species were found, 2 digeneans and 1 myxosporidian. With the features described, trematodes were probably identified to genera *Hapladena* sp. (with prevalence of 13.33 and mean intensity of 1.50); *Eurycreadium* sp. (with prevalence of 70.0 and mean intensity of 13.38). For the unidentified Myxosporidean the prevalence was 23.33, mean intensity 1515.29.

ABSTRAK

“Identifikasi endoparasit pada ikan payan, *Scarus prasiognathos*, di Taman Laut, Pulau Redang.”

Oleh sebab ikan air masin sangat penting, lebih banyak kajian seharusnya dijalankan supaya dapat menyumbang ke atas bidang yang berkenaan. Kajian ini telah mengenalpasti parasit-parasit yang terdapat pada ikan payan (*Scarus prasiognathos*) di Taman Laut, Pulau Redang. Ikan telah dikumpul dengan menggunakan jala tangan. Proses seperti membuat ukuran, pembedahan ikan dan identifikasi parasite telah dilakukan. Parasit dikukuhkan (fix) dengan 70 % alkohol dan diwarnakan dengan ‘Mayer’s carmalum stain’. Siri GAA diguna untuk proses dehidrasi. Parasit direndam di dalam ‘clove oil’ semalaman dan akhirnya sekali spesimen dilekap dengan menggunakan ‘Canada balsam’. Setiap parasite dinilai prevalent dan min intensiti. Dalam kajian ini, sejumlah tiga jenis parasite dapat dijumpai iaitu 2 jenis digenea dan 1 jenis myxosporidia. Dengan sifat-sifat yang dihuraikan, trematod berkemungkinan dari genera *Hapladena* sp. (memberi prevalent sebanyak 13.33 dan min intensity sebanyak 1.5); *Eurycreadium* sp. (memberi prevalence sebanyak 70.0 dan min intensiti sebanyak 13.38). Bagi Myxosporidean yang tidak dapat dikenalpasti telah memberi prevalence sebanyak 23.33 dan min intensiti 1515.29.