



ELECTRONIC THESIS AND DISSERTATION UNSYIAH

TITLE

DISTRIBUSI DAN KELIMPAHAN APOGONIDAE PADA EKOSISTEM LAMUN DI TELUK AHMAD RHANG MANYANG KABUPATEN ACEH BESAR

ABSTRACT

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Research on the distribution and abundance of fish species *Apogon Kiensis*, from Apogonidae family, was conducted on September 2017 on seagrass Ahmad Rhang Manyang bay, Lamreh, Aceh Besar District. Distribution data collection and abundance using systematic sampling method and belt transect technique. Fish data collection starts from 1 to 5 meters with 3 repetitions. The result of observation Apogonidae family fish distribution showed that the index value of Morisita ranged from 0.91 - 1 with the random and uniform category. The results of observation of fish family abundance Apogonidae at every depth of 1 meter to 5 meters ranged between 7 ind / 100 m² until 16.67 ind / 100 m² and known relative abundance ranged between 100%, relative frequency and frequency ranged between 100%. Based on the results of depth comparison, Apogonidae fish abundance along with depth increases the amount of fish is also increasing and fish distribution pattern is randomly caused by the environmental condition is homogenous, while fish are uniformly influenced by high natural selectivity so that there is a competition that pushes for the same spatial distribution. This spread may be suspected due to food competition.

Keywords : Distribution and abundance of *Apogon Kiensis* fish, Apogonidae family, Ahmad Rhang Manyang Bay.

ABSTRAK

Penelitian tentang distribusi dan kelimpahan ikan spesies *Apogon Kiensis*, Famili Apogonidae telah selesai dilakukan pada tanggal 25 September 2017 pada kawasan padang lamun di Perairan Teluk Ahmad Rhang Manyang, Lamreh, Kabupaten Aceh Besar. Pengambilan data distribusi dan kelimpahan menggunakan metode sistematis sampling serta teknik metode belt transect. Pengambilan data ikan dilakukan dimulai pada kedalaman 1 sampai 5 meter serta dilakukan 3 kali pengulangan. Hasil pengamatan distribusi ikan famili Apogonidae menunjukkan nilai indeks Morisita berkisar antara 0,91 - 1 dengan kategori acak dan seragam. Hasil pengamatan kelimpahan ikan famili Apogonidae pada setiap kedalaman 1 meter sampai 5 meter berkisar antara 7 ind/100m² sampai 16,67 ind/100 m² dan diketahui kelimpahan relatif berkisar antara 100%, frekuensi dan frekuensi relatif berkisar antara 100%. Berdasarkan hasil perbandingan kedalaman, kelimpahan ikan Apogonidae seiring pertambahan kedalaman jumlah ikan semakin meningkat dan pola distribusi ikan secara acak disebabkan terjadi kondisi lingkungan bersifat homogen, sedangkan ikan secara seragam dipengaruhi selektivitas alam yang tinggi sehingga timbul kompetisi yang mendorong untuk pembagian ruang hidup yang sama penyebaran ini dapat diduga karena persaingan makanan.

Kata Kunci : Distribusi dan kelimpahan ikan *Apogon Kiensis*, Famili Apogonidae, Teluk Ahmad Rhang Manyang.