

## ABSTRAK

Perairan Teluk Funka yang berada di Hokkaido Jepang memiliki potensi sumberdaya perikanan yaitu budidaya kerang hotate (*Patinopecten yessoensis*). Produksi budidaya kerang hotate meningkat setiap tahun dan menjadi industri yang berperan penting dalam ekonomi masyarakat pesisir. Penelitian ini bertujuan untuk mengetahui hubungan panjang berat dan faktor kondisi kerang hotate yang dibudidayakan di Teluk Funka Hokkaido, Jepang. Metode pengambilan sampel menggunakan metode *purposive sampling*. Pengambilan sampel dilakukan pada bulan Juni, Juli, Agustus, dan bulan gabungan (Juni-Agustus) 2022. Sampel kerang hotate ditimbang menggunakan timbangan digital dan panjang kerang hotate diukur menggunakan *image J*. Data dianalisis menggunakan regresi linear. Hasil penelitian menunjukkan data yang digunakan yaitu bulan Juni dan bulan gabungan (Juni-Agustus) karena nilai  $R^2$  mendekati 1 yang berarti memiliki tingkat kepercayaan yang kuat dengan pola pertumbuhan allometrik negatif. Nilai faktor kondisi di bulan Juli dan Agustus tidak dapat dipercaya karena pada saat analisis regresi nilai eror yang didapat lebih besar. Hubungan panjang berat yang kuat dengan nilai kepercayaan 74% pada bulan Juni, dan pada bulan gabungan (Juni-Agustus) 92%. Faktor kondisi kerang hotate pada bulan Juni, Juli, Agustus, dan bulan gabungan (Juni-Agustus) berfluktuasi masing-masing dengan nilai 2,83, 0,557, 7,3 dan 1,103. Nilai faktor kondisi lebih dari 1,00 berarti memiliki kondisi makan yang baik.

**Kata Kunci:** Faktor kondisi, hubungan panjang berat, kerang hotate (*Patinopecten yessoensis*), Teluk Funka.

## ABSTRACT

Hotate scallop is a potential resource from Funka Bay in Hokkaido Japan. The production of scallop aquaculture increased every year and has become an industry that played an important role in the economy of coastal communities. The aim of study was to determine the relationship length-weight and condition factors of hotate cultivated in Funka Bay Hokkaido Japan. Sample was collected using purposive sampling method. Sampling was conducted in June, July, August, and the combined month (June-August) 2022. Weight of hotate scallop directly pondered by digital scales. Length of hotate scallop measured by image j software. Data of growth and length hotate scallop was analyzed using linear regression. The results showed that the data used were data in June and the combined month because the  $R^2$  value was close to 1, which means it has a strong level of confidence with a negative allometric growth pattern. The condition factor valued in July and August are not reliable because during the regression analysis the error valued obtained are larged. The length-weight relationship was strong with a confidence valued of 74% in June, and in the combined months 92%. Condition factor in June, July, August, and the combined month fluctuated with valued of 2.83, 0.557, 7.3 and 1.103, respectively. Condition factor valued of more than 1.00 means good feeding conditions.

**Keywords:** *Condition factors, Funka Bay, hotate scallop (Patinopecten yessoensis), length-weight relationship.*

