海洋センター研究業績

種苗生産時に生じるサイズの違いが養殖アカモクの成長に及ぼす影響
瀬田智文，倉島彰
藻類．**70**(3), 191-198(2022)
Effect of size difference during seedling production on the growth of cultured *Sargassum horneri.*
Tomofumi Seta and Akira Kurashima

The effect of size difference generated during seedling production on the afterward growth of cultured *Sargassum horneri* was investigated. Seedlings were prepared by collecting embryos of a single cohort derived from a pair of a female and male adult and grown in a tank in a free-floating mode by stirring. Based on the stem length of seedlings on October 26, 2019, four size ranks were set: 0 < –50 mm (rank 1); 51–100 mm (rank 2); 101–150 mm (rank 3); and 151–200 mm (rank 4), and twenty seedlings for each rank were picked up for the experiment. The Seedlings were cultivated in an identical outdoor tank with care for making environment conditions for each individual as uniform as possible. Size differences among the ranks were maintained during the 52 days of experimental cultivation, and there was a clear positive correlation between stem length at the beginning and end of the experiment. Until December 10, the daily stem growth strongly depended on each stem length, but after that, the daily stem growth stagnated almost at the same time regardless of each stem length. Due to this growth pattern, it is considered that a small size difference generated during seedling production has a significant effect on the growth and yield of cultured *S. horneri.*
（京都府農林水産技術センター海洋センター業績No.192）