

**EXPERIENCE OF CULTIVATION**

**BROWN ALGA OF *COSTARIA COSTATA* (COSTARIACEAE, PHAEOPHYCEAE) IN PRIMORYE**

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**SUMMARY**

A tendency to decreasing field stock of large-size kelps, including perspective for industry *Costaria costata* (Ag.) Saund., is recently observed in coastal waters of the North-West Pacific. In view of this, elaboration of cultivation methods of the algae is vital. The characteristics of sporogenesis, periods of sporiferous tissue initiation and its maximum development, periods of zoospores outlet from sporiferous tissue and seedling emergence of *C. costata* were determined. As a result of experiments set by artificial sedimentation of zoospores on the substrate at different times of year and analysis of sporophytes growth on hanging plantations, the basic biological standards for cultivation of this algae were worked out. The obtained experimental and biological data should be considered as a basis for *C. costata* industrial cultivation.

Key words: *Costaria costata*, sporiferous tissue, zoospores, sporophytes, temperature of water, stock, cultivation.