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Implementation of the seaweed production adaptive to climate change

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This research purposes are to increase the production of seaweed species *Eucheuma* or *Kappaphycus* spp. adaptive to changes in water conditions and to produce high quality of seaweed continuously accepted by industry throughout the year. In order to achieve these objectives, suitability analysis of *Eucheuma* or *Kappaphycus* spp. using different cultivation methods and the stimulation of the growth of *Eucheuma* or *Kappaphycus* spp. by adding *Sargassum aquifolium* extract was carried out. The research method used was the application of an integrated action research and involvement of farmers who will implement the research purposes directly. The result shows that the combined use of *Eucheuma* or *Kappaphycus* spp. and method of cultivation significantly affects the absolute growth of *Eucheuma* or *Kappaphycus* spp. and content of carrageenan. The other results of this research show that the application of *Sargassum aquifolium* extract has no effect on the growth of *Kappaphycus alvarezii*. The conclusion of this research is the best growth of *Eucheuma spinosum* is found in cultivation using longline method, the best growth *Kappaphycus striatum* is found in cultivation using bottom-off method, and the best growth *Kappaphycus alvarezii* is found in cultivation using raft method. The application of *Sargassum aquifolium* extract does not have a significant effect on the growth of *Kappaphycus alvarezii* but can increase level of carrageenan content.

Biography

Nunik Cokrowati has completed her Masters from Gadjah Mada University. She is Lecturer at Aquaculture Study Program, Mataram University. She has published more than 5 papers in local journals and 1 paper in international journal. She is concerned at seaweed cultivation research and plankton research.

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