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larvae than synthetic polyethylene or polypropylene ropes, do not last long, natural fibrous materials like coconut fibre are sometimes interwoven with synthetic nylon ropes to make more attractive to the larvae (Yap et al., 1979; Sitoy et al., 1983). The string seed collectors are submerged in the sea water for seed collection at the right time. They are hung on a collector rack, normally 12 strings along a distance of 1.3 m to hold about 1 000 shells. Sometimes, strings are hung separately from each other at regular intervals; at others, three or four strings are put together for hanging to prevent branches from attaching to strings when they occur in large quantities (Fig. 21) (Honma, 1980). Three principal methods of oyster culture are used in the Philippines and Japan: (i) hanging method including rafts, longlines, simple hanging, and rocks; (ii) stake or stick method; and (iii) broadcast or sowing method (SCSP, 1982c; Honma, 1980). In Japan, the earliest method used at the Hiroshima Prefecture, where oyster culture began in the 17th century, was the stick culture method. In 1927, the hanging method of culture was introduced which later developed into different variations, viz., the simple hanging method, raft method, and longline method, to suit different local conditions as culture grounds shifted from inner to outer parts of the bay to outer open seas (Honma, 1980). The broadcast system is actually used throughout the world in places where the bottom of shallow bays is firm enough to support the materials used as collectors and for growing oysters. Oyster shells, stones, or other hard objects are scattered on the bottom in areas where setting or the attachment of oyster larvae is known to occur. The young oysters or spat are left in places attached to the collectors until they are large enough for harvest (SCSP, 1982c). The stake method is usually applied in shallow areas with soft or muddy bottom, usually not more than 1 m deep during low tide. The stakes, usually bamboo trunks (whole or split), branches of mangrove trees, or concrete Y-shaped posts and other similar materials are staked on the sea bottom in rows spaced about 0.5 m apart, to serve as attachment for oyster spat. The hanging method of oyster culture uses empty oyster shells or other material such as coconut shells as collectors. The collectors are strung on synthetic twine or heavy monofilament nylon, and placed about 10 cm apart by using bamboo tubes as spacers or by tying knots in the twine. The strings are hung from a platform or rack/tray made of bamboo or wooden splits or weided wire with wooden frame, and placed on wooden plots. Oysters detached from the collectors or those small oysters/seedlings which are separated from harvested stocks are cultured on the trays until they are big enough for the market (SCSP, 1982c; Pagcatipunan, 1987). Fig. 21. String seed collectors for mollusc spat (from Honma, 1980). Harvesting procedures vary with the culture method. Oysters grown on stakes or by hanging are removed from the stakes or ropes on shore or in a boat after the stakes/ropes are lifted out of the water. Those grown by broadcasting are usually collected at low tide (SCSP, 1982c). Mussel farming makes extensive use of bamboos either as stakes or as floating rafts. The stake method, similar to that for oyster culture, is the most commonly used. The mussels are harvested by divers after 6-10 months when they reach a length of 5-8 cm. Alternatively, mussels are grown on floating rafts (Fig. 22) which have the following advantages: (i) faster growth; (ii) possibility of regular thinning and therefore higher production per unit area; (iii) possibility of transfer to other areas to prevent siltation; and (iv) ease of construction using more durable materials (Sitoy, 1988). Mussels and oysters grown in waters contaminated by domestic and industrial wastes need to undergo depuration or cleansing, using artificially cleaned water or clean seawater from saltwater wells, to ensure satisfactory microbiological and chemical quality of the product. The depuration process flow and schematic diagram of a shellfish purification plant are shown in Figure 23.4.6.2 Seaweed Farming Seaweeds, aside from being used as food, are important sources of colloids or gels, such as agar, as well as minerals of medicinal importance such as iodine. Eucheuma, a red algae, is a valuable source of carrageenan, an important industrial compound used in stabilizing and improving the quality of a great number of products. Caulerpa lentillifera, a green algae, is economically important because it is a favourite and nutritious salad dish containing essential trace minerals such as calcium, potassium, magnesium, sodium, copper, iron and zinc. It is also known for its medicinal properties, being used as an anti-fungal agent and as a natural means for lowering blood pressure. Gracilaria, another red alga, is economically important in Taiwan (PC) for its agar extracts. The culture of the seaweed Porphyra is believed to have started as early as between 1596 and 1614 in Hiroshima Bay utilizing pole and net devices originally installed to catch fish. At present, commercial seaweed culture is limited to five countries in East Asia, viz., Japan and Korea (which both grow mainly Porphyra, Undaria and Laminaria), China (Porphyra and Laminaria), Taiwan (PC) (Gracilaria and Porphyra), and the Philippines (Eucheuma spinosum, E. cottonii and Caulerpa lentillifera). Thirty-one species belonging to 18 genera and three divisions are presently cultured in these five countries, of which only three out of the 31 species are green algae (Table 13) (Trono, 1986). In 1988, the estimated world seaweed production for use in the manufacture of carrageenan was nearly 68 000 t of dried seaweeds, of which nearly 66% was supplied by the Philippines and the rest by Indonesia, Chile and Canada. The bulk of the Philippine seaweed production consists of Eucheuma produced mainly in the southern part of the country in reef-protected coastal areas. Caulerpa is also successfully farmed in seawater ponds in Mactan, Cebu (Trono, 1986). Fig. 22. Diagram of a mussel raft unit (from Sitoy et al., 1983). Fig. 23. Schematic diagram of a shellfish depuration plant (from SCSP, 1982c). Table 13. Species under cultivation in the Asia-Pacific region Seaweed Groups/Species Country Where Cultivated A. Green Seaweeds (Chlorophyta) Caulerpa lentillifera J. Agardh Philippines Japan Enteromorpha sp. Monostroma nitidum Wittrock Japan Taiwan, Pr. of China B. Brown Seaweeds (Phaeophyta) Ecklonia sp. Japan Eisenia sp. Japan Heterochordaria sp. Japan Hizikia sp. Japan Korea, Republic of Laminaria japonica Areschoug Japan L. japonica China Korea, Republic of Macrocystis sp. Japan Nemaecystus sp. Japan Nereocystis sp. Japan Sargassum sp. Japan Undaria pinnatifida (Harvey) Sur. Japan China Korea, Republic of U. Peterseniana (Kjellman) Okamura Japan U. undarioides (Yendo) Okamura Japan C. Red Seaweeds (Rhodophyta) Eucheuma alvarezii Doty Philippines E. denticulatum (Burman) Collins et Harvey Philippines E. gelatinae (Esper) J. Agardh China Gelidium amansii Lamouroux Japan Gloiopeltis sp. Japan Gracilaria verrucosa (Hudson) Papenfuss Taiwan, Pr. of China Japan China G. gigas Harvey Taiwan, Pr. of China G. lichenoides (L.) Harvey Taiwan, Pr. of China Japan Porphyra angusta Ueda Taiwan, Pr. of China P. dentata Kjellman Taiwan, Pr. of China P. haitanensis Chang et Zhang Baofu China P. kuniedai Kurogi Korea, Republic of P. seriata Kjellman Korea, Republic of P. suborbiculata Kjellman Korea, Republic of P. tenera Kjellman Japan P. yezoensis Ueda Japan P. quanguongensis Tseng et T.J. Chang Korea, Republic of China Source: Trono, 1986 In Taiwan (PC), Gracilaria is cultured in ponds formerly used for milkfish, with Pingtung County alone accounting for 110 ha of the total 400 ha of Gracilaria ponds in Taiwan (PC) in 1974 and producing 1 000 t of dried Gracilaria seaweed. In Japan, indoor facilities are used to obtain buds/seedlings for on-growing at sea. The facilities consist of 70-80 cm deep square or rectangular concrete tanks provided with illumination, a temperature control system, and ventilation (Mito and Fukuhara, 1988). The successful cultivation of seaweeds depends on four important factors (Velasco, 1988): (i) Type of Seaweeds Used The seaweeds cultured must be healthy and resistant to disease and breakage. They must be able to grow fast and give high yields during harvest. During processing, they must have high amounts of dry matter from which will be extracted high concentrations of carrageenan of high gel strength and viscosity. (ii) Ecological Conditions of the Farm The farm must be well-sited and fulfill the bio-ecological requirements of the culture species. In general, the presence of a particular seaweed species in an area is a good indicator of the suitability of that site for culture of the species under consideration. (iii) Access to Sunlight Seaweeds being cultivated need abundant sunlight for photosynthesis. Shading by other seaweeds and plants must be prevented by regular inspection and removal of the unwanted plants. (iv) The Seaweed Farmer The personality and dedication of the seaweed farmer is an important factor since the farmer must visit the farm regularly and carry out routine inspections. Some of the farmer's chores include shaking off silt and other foreign materials from the seaweeds, repairing broken lines, restoring uprooted stakes, and picking up drifting branches of seaweeds. Trono and Ganzon-Fortes (1988) listed the following criteria for selecting good sites for Eucheuma in open waters and Caulerpa and Gracilaria in seawater ponds: (i) Unpolluted seawater supply. (ii) Salinity of 30-35 ppt Eucheuma and Caulerpa and 8-25 ppt for Gracilaria. (iii) Water temperature of 27-30° C. (iv) Moderate water movement of 20-50 m/min. (v) Water depth of 0.5-1 m at low tides and not more than 2-3 m at high tides, and (vi) Firm bottom protected from strong waves for Eucheuma and muddy-loam bottom for Caulerpa ponds. Seaweeds are grown using different types of planting material (vegetative cuttings, natural seeds, hatchery-reared seeds) and methods of culture (store planting, bottom culture, rope method, rope-concrete method, and pond culture either in monoculture or polyculture with milkfish, shrimp and crabs). These methods are described in detail by Trono (1986) and are summarized in Table 14. Table 14. Types of planting material and methods of culture for different seaweeds Seaweed Groups/Species Country Where Cultivated Type of Planting Material and Methods of Culture A. Green Seaweeds (Chlorophyta) Caulerpa lentillifera J. Agardh Philippines Vegetative propagation by cuttings; pond culture Enteromorpha sp. Japan Naturally produced "seeds" grown on hibi nets in open seas Monostroma nitidum Wittrock Japan Taiwan, Pr. of China Hatchery-reared or naturally produced "seeds" grown on hibi nets in open seas B. Brown Seaweeds (Phaeophyta) Ecklonia sp. Japan Natural seeding on improved substrates Eisenia sp. Japan Natural seeding on improved substrates or introduction of mother plants or seedlings Heterochordaria sp. Japan No information available Hizikia sp. Japan Korea, Rep. of Introduction of fertile plants on natural or artificial substrates; seeding of naturally produced spores or embryos on rocks Laminaria japonica Areschoug Japan Hatchery produced "seeds"; rope cultivation in open waters using artificial support system; natural recruitment on improved substrates; stone planting or bottom culture using artificially seeded stones L. japonica China Hatchery produced "seeds"; rope cultivation in open waters using artificial support system; scone planting or bottom culture using artificially seeded stones Korea, Rep. of No information (probably same used in Japan) Macrocystis sp. Japan Natural "seeds" on improved substrates; hatchery produced seedlings on twines introduced to artificial substrates Nemaecystus sp. Japan No detailed information available Nereocystis sp. Japan No detailed information available Sargassum sp. Japan Introduction of mother plants or seedlings; artificial substrates in open seas Gracilaria (Harvey) Sur. Japan China Korea, Rep. of Hatchery produced "seeds"; raft or floating rope system in open seas; stone planting using artificially seeded stones; bottom planting in open seas; management of natural stocks by improvement of substrates for natural seeding U. peterseniana (Kjellman) Okamura Japan Same as used for U. pinnatifida U. undarioides (Yendo) Okamura Japan Same as used for U. pinnatifida C. Red Seaweeds (Rhodophyta) Eucheuma, alvarezii Doty Philippines Vegetative cuttings using artificial support system on open reefs E. denticulatum (Burman) Collins et Harvey Philippines Same as used for E. alvarezii E. gelatinae (Esper) J. Agardh China Vegetative cuttings tied to pieces of corals and planted on the bottom Gelidium amansii Lamouroux Japan Natural seeding on improved substrates; vegetative cuttings scattered on the bottom and rope-concrete method Gloiopeltis sp. Japan Artificial seeding of substrates using spore suspension or embryos Gracilaria verrucosa (Hudson) Papenfuss Taiwan, Pr. of China Vegetative cuttings; pond monoculture and/or polyculture with milkfish, shrimp and crab Japan Vegetative cuttings Inserted in nets and ropes in protected bays and coves China Vegetative cuttings inserted in bamboo splits; net method; scattering cuttings on the substrate G. gigas Harvey Taiwan, Pr. of China Same as used for G. verrucosa in Taiwan G. lichenoides (L.) Harvey Taiwan, Pr. of China Same as used for G. verrucosa in Taiwan Japan Same as used for G. verrucosa in Japan Porphyra angusta Ueda Taiwan, Pr. of China Hatchery produced seeds; net-raft system in outgrowing areas P. dentata Kjellman Taiwan, Pr. of China Hatchery produced seeds; net-raft system in outgrowing areas P. haitanensis Chang et Zhang Baofu China Hatchery produced seeds on nets using the fixed, semi-floating or floating methods P. kuniedai Kurogi Korea, Rep. of Same as used for P. tenera in Japan P. seriata Kjellman Korea, Rep. of Same as used for P. tenera in Japan P. suborbiculata Kjellman Korea, Rep. of Same as used for P. tenera in Japan P. tenera Kjellman Japan Hatchery produced seeds on bamboo blinds and (recently) on artificially fixed or floating support systems P. yezoensis Ueda Japan Same as used for P. tenera in Japan Korea, Rep. of Same as used for P. tenera in Japan China Same as used for P. haitanensis P. guangdongensis Tseng et T.J. Chang Korea, Republic of China Source: Trono, 1986 In Taiwan (PC), Gracilaria is cultured in ponds formerly used for milkfish, with Pingtung County alone accounting for 110 ha of the total 400 ha of Gracilaria ponds in Taiwan (PC) in 1974 and producing 1 000 t of dried Gracilaria seaweed. In Japan, Ueda Japan P. quanguongensis Tseng et T.J. Chang Korea, Republic of China Source: Trono, 1986 In Taiwan (PC), Gracilaria is cultured in ponds formerly used for milkfish, with Pingtung County alone accounting for 110 ha of the total 400 ha of Gracilaria ponds in Taiwan (PC) in 1974 and producing 1 000 t of dried Gracilaria seaweed. In Japan, (from Aihb, 1989). (NET METHOD) Fig. 24. Three methods of Eucheuma culture practised in the Philippines (from Aihb, 1989). (FLOATING METHOD) In the Philippines, the monoline method of culture is the most popular and successfully used of these methods (Fig. 24) (Aihb, 1989). The farming activities involved in monoline culture of Eucheuma species based on the Philippine experience are as follows (Trono and Ganzon-Fortes, 1988): (i) Securing a license from the Bureau of Fisheries and Aquatic Resources (BFAR) prior to farming the area. (ii) Preparing required materials needed for farm construction. (iii) Clearing the area of sea grass, seaweeds, large stones and corals, and other foreign materials, followed by measuring it according to the proposed dimensions of the farm. Wooden stakes are then driven into the bottom with the help of an iron bar and sledgehammer and arranged into 10 m rows at 1 m intervals. An 11 m nylon line is securely tied to one end of each stake about 0.5 m above the ground and then stretched to the corresponding opposite stake and tied securely. If the current is very strong, an additional row of stakes is placed in the middle to provide additional support. (iv) Obtaining seedlings from the nearest source and transporting them to the farm site within the shortest possible time. During transport, the seedlings are protected from exposure to sun, wind, heat or rain. If the transport of seaweeds will take several hours, the seaweeds are kept damp during the trip and upon arrival at the farm, are immediately submerged in water. (v) Preparing the seedlings by tying bunches weighing about 50-100 g with soft 25 cm long plastic straw, and then tying these to monolines in the water at 20-25 cm intervals. The plants are allowed to grow to about 1 kg or larger before harvesting. (vi) Building a farm house if drying of the harvested seaweeds is part of the operations. The farm house is built in or near the farm site so as not to waste time during post-harvest handling. The size of the farm house, which is designed to provide for drying and storage, will depend on the farmer's financial capacity and market commitments. (vii) Maintaining planted seaweeds by inspecting them regularly while they are growing. Unwanted seaweeds which will compete with the Eucheuma for nutrients and sunlight are removed along with dirt and other foreign materials clinging to the seaweeds. Lost or broken Eucheuma are replaced. (viii) Harvesting the whole plant and reserving select portions as seedlings for the next crop. (ix) Sun-drying of the rest of the harvest by spreading these on a drying platform of bamboo slots initially lined with coarse fine-mesh nylon net. The seaweeds are freed of all foreign matter clinging to them. During hot and sunny weather, it takes about 3-4 days to dry the seaweeds to a moisture content of about 30% or less. The dried materials are then packed in plastic sacks for storage in a dry place or for delivery to the buyer. The pond culture of Caulerpa involves the following major steps (Trono, 1988): (i) Pond Construction The pond is divided into manageable units measuring about 0.10-0.25 ha. The pond design allows for a flow-through system by providing each unit with its own supply and drainage gates. Water flows uniformly from the main gate to the secondary and exit gates during the draining and flooding process. Peripheral diversion dikes or canals along the landward edge of the pond are also built to divert run-off water from the ponds during the rainy season. (ii) Planting To facilitate planting activities, pond water is drained to a depth of about 0.3 m. Caulerpa seedlings are obtained from the nearest source available and transported to the farm site within the shortest possible time. The ponds are stocked at a rate of 1 000 kg seedlings/ha or 100 g/m2. A handful of seedlings is uniformly buried on one end at approximately 1 m intervals using a string as guide. After planting, the pond water is gradually raised to a depth of 0.5-0.8 m or just until the plants can be seen from the surface of the water. The newly planted seaweeds are inspected after a few days. Uprooted seaweeds are replaced and bare areas are replanted. (iii) Pond Management Water is changed daily or every other day to maintain adequate levels of nutrients. During the initial stages of growth, the seaweeds deplete the water of nutrients at a high rate and frequent water changes are needed to replenish lost nutrients and eliminate the need to fertilize. Water level is, however, carefully maintained to prevent the collapse of the dikes. Unwanted seaweeds, sea grasses, and animals which will compete with the Caulerpa for nutrients are regularly weeded out. The dikes and pond gates are inspected regularly to check for leakages, which are repaired immediately. This is vital, especially during the typhoon season. The application of fertilizer may not be necessary as long as frequent water change is maintained. However, fertilization is resorted to when the stocks appear unhealthy and pale in colour, i.e., from light green to yellowish. When this happens, pond water is changed and fertilizer with a high nitrogen content is applied at the rate of 16 kg/ha by broadcasting or by suspending the fertilizer contained in several layers of plastic sack in strategic areas in the pond. The pond water is not changed in the next two to three days. (iv) Harvesting Two months after planting, the Caulerpa forms a uniform carpet on the pond bottom, a good indicator for harvest time. About 75% of the crop is harvested by uprooting the Caulerpa from the mud and placing it on to a wooden raft. About 25% of the original crop is left behind, uniformly spaced on the pond bottom to serve as seedstock for the next crop. This may be harvested after two to three weeks. Harvested seaweeds are washed in clean sea water to remove mud and other dirt. The clean seaweeds are then placed in a basket or clean plastic sheets for further sorting and cleaning before packaging and immediate transport to the market.

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