

REFERENCES

- Allender, B.M. (1977). Ecological experimentation with the generations of *Padina japonica* Yamada (Dictyotales: Phaeophyta). Journal of Experimental Marine Biology and Ecology 26, 225-234.
- Arenas, F. and Fernandez, C. (2000). Size structure and dynamics in a population of *Sargassum muticum* (Phaeophyceae). Journal of Phycology 36, 1012-1020.
- Ateweberhan, M., Bruggemann, J.H. and Breeman, A.M. (2005). Seasonal dynamics of *Sargassum iliciolum* (Phaeophyta) on a shallow reef flat in the southern Red Sea (Eritrea). Marine Ecology Progress Series 292, 159-171.
- Ateweberhan, M. (2006). Seasonal module dynamics of *Turbinaria triquetra* (Fucales, Phaeophyceae) in the Southern Red Sea. Journal of Phycology 42, 990-1001.
- Carney, L.T. and Edwards, M.S. (2006). Cryptic Processes in the Sea: A Review of Delayed Development in the Microscopic Life Stages of Marine Macroalgae. Algae 21(2), 161-168.
- Campbell, L., Landry, M.R., Constantinou, J., Nolla, H.A., Brown, S.L., Liu, H. and Caron, D.A. (1998). Response of microbial community structure to environmental forcing in the Arabian Sea. Deep-Sea Research II 45, 2301-2325.
- Chapman, A.S. and Fletcher, R.L. (2002). Differential effects of sediments on survival and growth of *Fucus serratus* embryos (Fucales, Phaeophyceae). Journal of Phycology 38, 894-903.
- Creed, J.C., Kain (Jones), J.M. and Norton, T.A. (1998). An experimental evaluation of density and plant size in two large brown seaweeds. Journal of Phycology 34, 39-52.

- De Ruyter Van Steveninck, E.D. and Breeman, A.M. (1987). Population dynamics of a tropical intertidal and deep-water population of *Sargassum polyceratum* (Phaeophyceae). *Aquatic Botany* 29, 139-156.
- Denny, M. and Roberson, L. (2002). Blade motion and nutrient flux to the kelp, *Eisenia arborea*. *Biology Bulletin* 203, 1-13.
- Diaz-Pulido, G. and McCook, L.J. (2003). Relative roles of herbivory and nutrients in the recruitment of coral-reef seaweeds. *Ecology* 84(8), 2026-2033
- Diez, I., Santolaria, A. and Gorostiaga, J.M. (2003). The relationship of environmental factors to the structure and distribution of subtidal seaweed vegetation of the western Basque coast (N Spain). *Estuarine, Coastal and Shelf Science* 56, 1041-1054.
- Dytham, C. 1999. Choosing and Using Statistics: A Biologist's Guide. Blackwell Science, Inc., USA.
- Eriksson, B.K. and Johansson, G. (2003). Sedimentation reduces recruitment success of *Fucus vesiculosus* (Phaeophyceae) in the Baltic Sea. *European Journal of Phycology* 38, 217-222.
- Fagerberg, W.R. and Dawes, C.J. (1973). An electron microscopic study of the sporophytic and gametophytic plants of *Padina vickersiae* Hoyt. *Journal of Phycology* 9, 199-201.
- Flores-Moya, A., Fernández, J.A. and Niell, F.X. (1996). Growth pattern, reproduction, and self-thinning in seaweed. *Journal of Phycology* 32, 767-769.
- Foster, M.S. and Sousa, W.P., 1985. Chapter II Assessments of populations and communities: Succession. In Littler, M.M., Littler, D.S. (Eds.), *Handbook of*

- Phycological Method, Ecological Field Method: macroalgae. Cambridge University Press, Cambrigde, New York, pp. 269-290.
- Gårdmark, A., Enberg, K., Ripa, J., Laakso, J. and Kaitala, V. (2003). The ecology of recovery. *Annales Zoologici Fennici* 40, 131-144.
- Garreta, A.G., Lluch, J.R., Martí, M.C.B. and Siguan, M.A.R. (2007). On the presence of fertile gametophytes of *Padina pavonica* (Dictyotales, Phaeophyceae) from the Iberian coasts. *Anales del Jardín Botánico de Madrid* 64(1), 27-33.
- Geraldino, P.J.L., 2004. Monographic study of the marine algal genus *Padina* Adanson, 1763 (Phaeophyceae, Dictyotales) of the Visayas and Mindanao, Philippines. A thesis submitted in partial fulfillment of the requirement for the Degree of Master of Marine Biology, Department of Science, University of San Carlos. Cebu City.
- Gordon, R. and Brawley, S.H. (2004). Effects of water motion on propagule release from algae with complex life histories. *Marine Biology* 145, 21-29.
- Graham, M.H. (2002). Prolonged reproductive consequences of short-term biomass loss in seaweeds. *Marine Biology* 140, 901-911.
- Grant, A. (2000). Deep-Sea diversity overlooked messages from shallow-water sediments. *Marine Ecology* 21(2), 97-112.
- Hansen, J.E. (1977). Ecology and natural history of *Iridaea crdata* (Gigartinales, Rhodophyta) growth. *Journal of Phycology* 13, 395-402.
- Hay, M. 1985. Spatial patterns of herbivore impact and their importance in maintaining algal species richness. *Proceedings of the Fifth International Coral Reef Congress, Tahiti, French Polynesia, May 27th –June 1st, 1985*, 29-34.

- Hutchinson, N. and Williams, G.A. (2001). Spatio-temporal variation in recruitment on a seasonal, tropical rocky shore: the importance of local versus non-local processes. *Marine Ecology Progress Series* 215, 57-68.
- Hwang, R.L., Tsai, C.C. and Lee, T.M. (2004). Assessment of temperature and nutrient limitation on seasonal dynamics among species of *Sargassum* from a coral reef in Southern Taiwan. *Journal of Phycology* 40, 463-473.
- Ichiki, S., Mizuta, H. and Yamamoto, H. (2000). Effects of irradiance, water temperature and nutrients on the growth of sporelings of the crustose coralline alga *Lithophyllum yessoense* Foslie (Corallinales, Rhodophyceae). *Phycological Research* 48, 115-120.
- Isæus, M., Malm, T., Persson, S. and Svensson, A. (2004). Effects of filamentous algae and sediment on recruitment and survival of *Fucus serratus* (Phaeophyceae) juveniles in the eutrophic Baltic Sea. *European Journal of Phycology* 39, 301-307.
- Kitzes, J.A. and Denny, M.W. (2005). Red algal respond to waves: Morphological and mechanical variation in *Mastocarpus papillatus* along a gradient of force. *Biology Bulletin* 208, 14-19.
- Kuffner, I.B. and Paul, V.J. (2001). Effects of nitrate, phosphate and iron on the growth of macroalgae and benthic cyanobacteria from Cocos Lagoon, Guam. *Marine Ecology Progress Series* 222, 63-72.
- Lapointe, B., Barile, P.J., Yentsch, C.S., Littler, M.M., Littler, D.S. and Kakuk, B. (2004). The relative importance of nutrient enrichment and herbivory on macroalgal communities near Norman's Pond Cay, Exumas Cays, Bahamas: a

- "natural" enrichment experiment. *Journal of Experimental Marine Biology and Ecology* 298, 275-301.
- Lee, R.E. 1999. *Phycology*. The United Kingdom at the University Press, Cambridge.
- Lewis, S.M., Norris, J.N. and Searles, R.B. (1987). The regulation of morphological plasticity in tropical reef algae by herbivory. *Ecology* 68(3), 636-641.
- Lewmanomont, K. 1984. *Algae*. Faculty of Fisheries, Kasetsart University, Bangkok.
- Lewmanomont, K. and Ogawa, H. 1995. Common Seaweeds and Seagrasses of Thailand. Integrated Promotion Technology Co., Ltd., Bangkok.
- Liddle, L.B. (1975). The effect of intertidal stress on *Padina sanctae-crucis* (Phaeophyta). *Journal of Phycology* 11, 327-330.
- Lubchenco, J. (1983). *Littorina* and *Fucus*: Effects of herbivores, substratum heterogeneity and plant escapes during succession. *Ecology* 64(5), 1116-1123.
- Luxoro, C. and Santelices, B. (1989). Additional evidence for ecological differences among isomorphic reproductive phases of *Iridaea laminariooides* (Rhodophyta: Gigartinales). *Journal of Phycology* 25, 206-212.
- Maggs C.A. and Callow, M.E. (2002). *Algal Spores*. Macmillan Publishers Ltd, Nature Publishing Group, UK, Encyclopedia of Life Sciences 1-6
- Maneerat, Y. 1974. Taxonomic study of the brown algal genus *Padina* of Thailand. A thesis submitted in partial fulfillment of the requirement for the Degree of Master of Science, Department of Botany, Chulalongkorn University. Bangkok.
- Mayakun, J. 2006. Effect of Herbivory and Season of Clearing on Species Composition and Algal Succession at Sirinart Marine National Park, Phuket Province, Thailand. A thesis submitted in partial fulfillment of the requirement for the

- Degree of Master of Ecology (International program), Department of Science, Prince of Songkla University, Hat Yai, Songkla.
- Mayakun, J. and Prathee, A. (2005). Seasonal variations in diversity and abundance of macroalgae at Samui Island, Surat Thani Province, Thailand. *Songklanakarin Journal of Science and Technology* 27(3), 653-663.
- Maurer, B. A. and Taper, M. L. 2002. Connecting geographical distributions with population processes. *Ecology Letters* 5: 223-231.
- Monparwongsan, S. 2003. SPSS for Windows. Se-Education Public Company Limited. Bangkok. Thailand.
- Murray, S.N. and Littler, M.M. (1978). Patterns of algal succession in a perturbated marine intertidal community. *Journal of Phycology* 14, 506-512.
- Neal, D. 2004. Introduction to Population Biology. Cambridge University Press. New York.
- Nordemar, I., Sjöö, G.L., Mörk, E. and McClanahan, T.R. (2007). Effects of estimated herbivory on the reproductive potential of four East Africa algal species-a mechanism behind ecosystem shifts on coral reefs? *Hydrobiologia* 575, 57-68.
- Palomo, L., Clavero, V., Izquierdo, J.J., Avilés, A., Becerra, J. and Niell, F.X. (2004). Influence of macrophytes on sediment phosphorus accumulation in a eutrophic estuary (Palmones River, Southern Spain). *Aquatic Botany* 80, 103-113.
- Paryi, C. E. (1984). The effect of environment on the biology and morphology of *Turbinaria ornata* (Phaeophyta) from the Tiahura reef (Moorea Island, French Polynesia). *Botanica Marina* 27, 327-333.
- Pengseng, P. 1992. Study of Species Composition of Marine Algae at Ao Phe Rayong

- Province, presently and previously found. A thesis submitted in partial fulfillment of the requirement for the Degree of Master of Fisheries Science, Department of Science, Kasetsart University. Bangkok.
- Plouguerné, E., Lann, K. L., Connan, S., Jechoux, G., Deslandes, E. and Stiger-Pouvreau, V. 2006. Spatial and seasonal variation in density, reproductive status, length and phenolic content of the invasive brown macroalga *Sargassum muticum* (Yendo) Fensholt along the coast of Western Brittany (France). Aquatic Botany. 85: 337-344.
- Prathee, A. (2005). Spatial and Temporal Variations in Diversity and Percentage Cover of Macroalgae at Sirinart Marine National Park, Phuket Province, Thailand. ScienceAsia 31, 225-233.
- Prathee, A. and Tantiprapas, P. (2006). Preliminary report on the diversity and community structure of macroalgae before and after the 2004 Tsunami at Talibong Island, Trang Province, Thailand. Coastal Marine Science 30(1), 189-195.
- Prathee, A., Wichachucherd, B. and Thorngroy, P. (2006). Spatial and temporal variation in density and thallus morphology of *Turbinaria ornata* in Thailand. Aquatic Botany 86, 132-138.
- Quartino, M.L., Kloster, H., Schloss, I.R. and Wiencke, C. (2001). Biomass and associations of benthic marine macroalgae from the inner Potter Cove (King George Island, Antarctica) related to depth and substrate. Polar Biology 1-14.

- Rivera, M. and Scrosati, R. (2006). Population dynamics of *Sargassum lapazeanum* (Fucales, Phaeophyta) from the Gulf of California, Mexico. *Journal of Phycology* 45(2), 178-189.
- Roberson, L.M. and Coyer, J.A. (2004). Variation in blade morphology of the kelp *Eisenia arborea*: incipient speciation due to local water motion? *Marine Ecology Progress Series* 282, 115-128.
- Salles, P. and Bredeweg, B. (2003). Qualitative reasoning about population and community ecology. *American Association for Artificial Intelligence* 77-90.
- Schaffelke, B. (1999). Short-term nutrient pulses as tools to assess responses of coral reef macroalgae to enhanced nutrient availability. *Marine Ecology Progress Series* 182, 305-310.
- Schiel, D.R., Wood, S.A., Dunmore, R.A. and Taylor, D.I. (2006). Sediment on rocky intertidal reefs: Effects on early post-settlement stages of habitat-forming seaweeds. *Journal of Experimental Marine Biology and Ecology* 331, 158-172.
- Scrosati, R., Garbary, D.J. and McLachlan, J. (1994). Reproductive ecology of *Chondrus crispus* (Rhodophyta, Gigartinales) from Nova Scotia, Canada. *Botanica Marina* 37, 293-300.
- Steneck, S.R. and Dethier, M.N. (1994). A functional group approach to the structure of algal-dominated communities. *Oikos* 69(3), 476-498.
- Subbaraju, D.P., Ramakrishna, T. and Sreedhara, M.M. (1982). Influence of changes in salinity, pH, and temperature on the spores and sporelings of *Padina tetrastromatica* Hauck. *Journal of Experimental Marine Biology and Ecology* 58, 163-173.

- Szmant, A.M. (2002). Nutrient enrichment on coral reefs: Is it a major cause of coral reef decline?. *Estuaries* 25, 743-766.
- Tanaka, J. (1998). Reproductive structures of *Dictyopteris undulata* (Dictyotales, Phaeophyceae) from Japan. *Phycological Research* 46, 75-80 .
- Thongroy, P., Liao, L.M. and Prathee, A. (2007). Diversity, abundance and distribution of macroalgae at Sirinart Marine National Park, Phuket Province, Thailand. *Botanica Marina* 50, 88-96
- Thornber, C.S. (2006). Functional properties of the isomorphic biphasic algal life cycle. *Integrative and Comparative Biology* 46(5), 605-614.
- Thornber, C.S. and Gaines, S.D. (2003). Spatial and temporal variation of haploids and diploids in populations of four congeners of the marine alga *Mazzaella*. *Marine Ecology Progress Series* 258, 65-77.
- Thornber, C.S. and Gaines, S.D. (2004). Population demographics in species with biphasic life cycle. *Ecology* 85, 1661-1674.
- Vadas Sr, R.L., Johnson, S. and Norton, T.A. (1992). Recruitment and mortality of early post-settlement stages of benthic algae. *British Phycological Journal* 27, 331-351.
- Van Alstyne, K.L., Whitman, S.L. and Ehlig, J.M. (2001). Difference in herbivore preferences, phlorotannin production, and nutritional quantity between juvenile and adult tissues from marine brown algae. *Marine Biology* 139, 201-210.
- Woodin, S.A., Lindsay, S.M. and Wethey, D.S. (1995). Process-specific recruitment cues in marine sedimentary systems. *Biology Bulletin* 189, 49-58.

- Wynne, M.J. and De Clerck, O. (1999). First reports of *Padina antillarum* and *P. glabra* (Phaeophyta- Dictyotaceae) from Florida, with a key to the Western Atlantic species of the genus. Caribbean Journal of Science 35(3-4), 286-295.
- Yoshida, G., Yoshikawa, K. and Terawaki, T. (2001). Growth and maturation of two populations of *Sargassum horneri* (Fucales, Phaeophyta) in Hiroshima Bay, the Seto Inland Sea. Fisheries Science 67, 1023-1029.
- Zacharias, M.A. and Roff, J.C. (2001). Explanations of patterns of intertidal diversity at regional scales. Journal of Biogeography 28, 471-83.

http://www.tmd.go.th/province_stat.php?StationNumber=48565 [October 29, 2006]