

CURRICULUM VITAE

Name: Anchana Pratthep

Date of birth: January 13, 1974, Trang, Thailand

Nationality: Thai

Academic Position: Associate Professor (Currently being evaluated for Professorship)

Administrative Position: Director of Center for Excellence in Biodiversity of Peninsular Thailand
: Dean of Faculty of Science, Prince of Songkla University

Contribution to the Academic and related Associations:

: Steering Committee members of Ocean Remote Sensing for Coastal Habitat Mapping, IOC-Sub-Commission for the Western Pacific (WESTPAC)

: Specialist of International Union for Conservation (IUCN) Seagrass Red List Authority, IUCN Species Survival Commission (SCC) Network Support Office

Awards:

: Best Young Lecturer Award, Faculty of Science, Prince of Songkla University (2005)

: Best Young Lecturer Award, Prince of Songkla University (2009)

: UNESCO-MAB: Ecological Science for Sustainable Development (2012)

: Best Young Researcher, Algae and Plankton Society Thailand (2017)

: Best Researcher Award, Faculty of Science, Prince of Songkla University (2018)

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Education:

Years	Degrees	Subjects	University
2001	Ph.D.	Biological Science	The University of Liverpool, UK (Biological Sciences)
1995	Bsc.	Biology	Prince of Songkla University, Thailand

Research Interests:

Research is primarily concerned with the biodiversity and ecology of seaweed and seagrass across Thai coasts and Indo-Pacific Ocean with various collaborators and sectors. This includes seagrass monitoring under the ' *Global SeagrassNet Monitoring* ' project, which we are a hub in the South East Asian region. Studies have focus on the common species such as *Halimeda*, *Padina*, *Turbinaria* and *Dictyota*. Ecological theories have been investigated using seaweed and seagrass as " *model organisms* ". We are interested in the climate change, blue carbon; and try to understand how these organisms can help and response to such scenario. We also focus on ecosystem services and seagrass restoration with various collaborations from governments, NGOs and private sectors. Various tools have been adopted and developed such as stable isotope, GIS, remote sensing, UAVs and modelling.

Publications:

- 1) **Pratthep, A.**, Marrs, R. and Norton, T. A. 2003 Spatial and temporal variations in sediment accumulations in an algal turf and its roles on associated fauna. *Marine Biology*. 142(2):381-390.
- 2) **Pratthep A.** 2003. Spatial and temporal variations in percentage cover of two common seagrasses at Sirinart National Park, Phuket; and a first step for marine base. *Songklanakarin Journal of Science and Technology*. 25 (5):651-658.
- 3) **Pratthep, A.** 2005. Spatial and temporal variations in diversity and percentage cover of macroalgae at Sirinart national park, phuket province, Thailand. *Science Asia*. 31: 225-233.

- 4) Mayakun, J. and **Pratthep, A.** 2005 Seasonal and temporal variations in diversity of macroalgae in Samui island, Thailand. Songklanakarin Journal of Science and Technology. Vol/ 27(suppl.3):653-663.
- 5) **Pratthep, A.**, Lewmanomont, K., Chottithammo, A. and Tantiprapaj, P. 2006. Population Dynamics of *Caulerpa racemosa* (Forsskl) J. Agardh., a siphonous green alga, in Shallow Subtidal Reefs, Koh Kham, Songkhla Province, Thailand. Proceedings of 10th International Coral Reefs Symposium: 1870-1876.
- 6) **Pratthep, A.** and Tantiprapaj, P. 2006 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.
- 7) Choi, H.G., Lee, J.H., Choo, YK., Chai, KY., Kim, Y.S., Han, J.S., **Pratthep, A** and Nam, K.W. 2006. Phenology of the rhodomelarian algae *Neorhodomela aculeata* and *Ceramium kondoi* and their survival strategies against herbivorous snails. Phycological Research. 54:302-307.
- 8) **Pratthep, A.**, Wichachucherd, B. and Thongroy, P. 2007. Spatial and temporal variations in density and biological characteristics of a common brown alga, *Turbinaria ornata* (Turner) J. Agardh, at Sirinart Marine National Park, Thailand. Aquatic Botany. 86:132-138.
- 9) Thongroy, P., Liao, L. and **Pratthep, A.** 2007. Diversity, abundance and distribution of macroalgae at Sirinart Marine National Park, Phuket Province, Thailand. Botanica Marina. 50(2):88-96.
- 10) **Pratthep A.**, Darakrai, A., Tantiprapas, P., Mayakun, J., Thongroy, P., Wichachucherd, B. and Sinutok, S. 2007 Diversity and community of macroalgae at Koh Taen, Haad Kanom-Mu Koh Tale Tai, marine National Park, Nakhon Si Thammarat Province, Thailand. Journal of Marine Research Indonesia 32(2):153-162
- 11) **Pratthep, A.**, Mayakun, A., Tantiprapas, P and Darakrai, A.2008. Can macroalgae recover, 13 months after the 2004 Tsunami?: a case study at Talibong Island, Trang Province, Thailand. Journal of Applied Phycology 20:907-914
- 12) Buapet, P., Hirianpan, R., Ricthie, R and **Pratthep, A.** 2008. Effect of nutrient inputs on growth, chlorophyll and tissue nutrient concentration of *Ulva reticulata* Forsskål from a tropical habitat. ScienceAsia 34:245-252
- 13) **Pratthep, A.**, Lewmanomont, K and Buapet, P. 2009 Effects of wave exposure on population and reproductive phenology of an algal turf, *Gelidium pusillum* (Gelidales, Rhodophyta), Songkhla, Thailand. Aquatic Botany 90:179-183
- 14) Sinutok S., Pongparadon S. and **Pratthep A.** 2008. Seasonal variation in density, growth rate and calcium carbonate accumulation of *Halimeda macroloba* Decaisne at Tangkhen Bay, Phuket Province, Thailand. Malaysian Journal of Science 27(2):1-8.
- 15) Pongparadon S., Thongroy, P. and **Pratthep A.** 2008. Diversity and Distribution of *Ulva* in Thailand. Taxonomy of Southeast Asian Seaweeds, Phang, Lewmanomont, Lim (eds): pp15-26
- 16) Phang, S.M., Lewmanomont, K., **Pratthep, A.**, Largo, D., Abdullah S.A., Han, N.A., Lim, W.L., Sam, H.S., Andriana, R., Pongparadon, S., Lim, P.E., Yeong, H.Y. 2008. Some Chlorophyta of Southeast Asia, with one new record of *Caulerpa* for Malaysia and Indonesia. Taxonomy of Southeast Asian Seaweeds, Phang, Lewmanomont, Lim (eds): pp 27-32.
- 17) **Pratthep, A.**, Rattanachot E., Tantiprapas T., Prempre, S., Wiriyathamsakul A., Pakbara, A. SeagrassNet Monitoring Initiative in the Southern Andaman Sea: a case study from Thailand and current studies of seagrasses in Indonesia, Malaysia and Thailand. Proceedings of the 6th IMT-GT UNINET Conference 2008. Pp
- 18) Rattanachot, E., Tantiprapas, P., Wichachucherd, B., Nokkate, N. and **Pratthep A.** 2008. Seasonal variation in coverage, canopy height, fruit density and biomass of subtidal seagrass *Halophila decipiens* Ostenfeld in Chumphon Coast, The Gulf of Thailand. Proceedings of the 6th IMT-GT UNINET Conference 2008. Pp
- 19) Tantiprapas, P., Rattanachot, E., Pongparadon, S., Promdam, R., Raungprataungsuk, K., Phatthnarhatcharoen, C. Panumpun, K., Greenberg, D. and **Pratthep A.** The Effect of Seagrass Coverage on Swimming Crabs (Portunidae) at Koh Tha Rai, Khanom-Mu Koh Talay Tai National Park, Nakhon Si Thammarat Province, Southern Thailand. Proceedings of the 6th IMT-GT UNINET Conference 2008. pp 324-329.
- 20) Wichachucherd, B., Liddle, L and **Pratthep, A.** 2010. Population Structure, Recruitment and Succession of a brown algal, *Padina boryana* Thivy (Dictyotales) at an exposed shore of Sirinart marine national park and a sheltered area of Thangkhen Bay, Phuket province, Thailand. Aquatic Botany 92:93-98

- 21) Mayakun, J., Kim, J.H. and **Pratthep, A.** 2010. Effects of Damselfish Herbivory and Season of Disturbance on Algal Succession in a tropical intertidal shore, Phuket, Thailand. *Phycological Research* **58**: 88-96
- 22) Ni-Ni-Win, Hanyuda, T., Arai, S., Uchimura, M., **Pratthep, A.**, Draisma, S., Soe-Htun, Kawai, H. 2010. Four new species of *Padina* (Dictyotales, Phaeophyceae) from the western Pacific Ocean, and reinstatement of *Padina japonica*. *Phycologia* pp. 136-153
- 23) **Pratthep, A.**, Rattanachot, E. and Tuntiprapas, P. 2010. Seasonal variations in seagrass percentage cover and biomass at Koh Tha Rai, Nakhon Si Thammarat Province, Gulf of Thailand. *Songklanakarin Journal of Science and Technology*. 32(5):497-504
- 24) Rattanachot, E. and **Pratthep, A.** 2011 Temporal variation in growth and reproduction of *Enhalus acoroides* (L.f.) Royle in a monospecific meadow in Haad Chao Mai National Park, Trang Province, Thailand. *Botanica Marina* 54:201-207.
- 25) Short, F.T., Polidoro, B., Livingstone, S.R., Carpenter, K.E., Bandeira, S., Bujang, J.S., Calumpong, H.P., Carruthers, T.J.B., Coles, R.G., Dennison, W.C., Erftemeijer, P.L.A., Fortes, M.D., Freeman, A.S., Jagtap, T.G., Kamal, A.H.M., Kendrick, G.A., Kenworthy, W.J., La Nafie, Y.A., Nasution, I.M., Orth, R.J., **Pratthep, A.**, Sanciangco, J.C., van Tussenbroek, B., Vergara, S.G., Waycott, M. and Zieman, J.C. 2011. Extinction risk assessment of the world's seagrass species. *Biological Conservation* 144: 1961-1971.
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- 27) **Pratthep, A.**, Pongparadon, S., Darakrai, A., Wichachucherd, B and Sinutok, S. 2011. Diversity and Distribution of seaweed at Khanom-Mu Ko Thale Tai National park, Nakhon Si Thammarat province, Thailand. *Songklanakarin J. Sci. Technol.* 33(6), 633-640.
- 28) Ni-Ni-Win, Hanyuda, T., Arai, S., Uchimura, M., **Pratthep, A.**, Draisma, S., Phang, S.M., Abbott, I., Millar, A. and Kawai, H. 2011. A Taxonomic study of the genus *Padina* (Dictyotales, Phaeophyceae) including the description of four new species from Japan, Hawaii, and the Andaman Sea. *J. Phycology*. 47:1193-1209.
- 29) Bunsom, C and **Pratthep, A.** 2012. Effects of Salinity, Light intensity and Sediment on Growth, Pigments, Agar production and Reproduction in *Gracilaria tenuistipitata* C.F. Chang & B.M. Xia at Koh Yor, Songkhla Lagoon, Songkhla Province, Thailand. *Phycological Research*. *Phycological Research*. 60: 169-178
- 30) Mayakun, J. Kim, J.M., Lapointe, B., **Pratthep, A.** 2012. The effects of herbivore exclusion and nutrient enrichment on growth and reproduction of *Halimeda macroloba* *ScienceAsia*. 38:227-234.
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- 32) Mayakun, J. Kim, J.M., Lapointe, B., **Pratthep, A.** 2013. Algal response to nutrient enrichment; insights into growth and chemical concentrations in two algae, *Halimeda macroloba* Decaisne and *Turbinaria conoides* (J. Agardh) Kützing *Songklanakarin Journal of Science and Technology* 35(4), 389-359.
- 33) Mayakun, J. Kim, J.M., Lapointe, B., **Pratthep, A.** 2013. Effects of nutrient enrichment and herbivory on morphology, reproduction and chemical content of *Turbinaria conoides* (Phaeophyceae). *Phycological Research* 61:270-276.
- 34) Cababo, S., Aposotolaki, E., Garcia-Marin, P., Gruber, R., Hernandez, I., Martinez-Crego, B., Mascaro, O., Perez, M., **Pratthep, A.**, Robinson, C., Romero, Schmidt, A., Short, F., van Tussenbroek, B., Santos, R. 2013. Effects of nutrient enrichment on seagrass population dynamics: evidence and synthesis from the biomass-density relationships. *Journal of Ecology*. 101:1552-1562.
- 35) Pongparadon, S. and **Pratthep, A.** 2013. Diversity and distribution of the genus *Halimeda* J.V. Lamour. (Chlorophyta) in Peninsular Thailand. In: Phang S.M. & Lim P.E. (eds). *Taxonomy of Southeast Asian Seaweeds II*. Institute of Ocean and Earth Sciences, University of Malaya Monograph Series 15. University of Malaya Press, Kuala Lumpur. pp.39-64.
- 36) Wichachucherd, B. and **Pratthep, A.** 2013. Preliminary study on the diversity and distribution of *Padina* Adanson in Peninsular Thailand, including one new record, *Padina usohtunii* Ni-Ni-Win et Kawai. In: Phang S.M. & Lim P.E. (eds). *Taxonomy of Southeast Asian Seaweeds II*. Institute of Ocean and Earth Sciences, University of Malaya Monograph Series, 15:175-184
- 37) Darakrai, A and **Pratthep, A.** 2013. Preliminary Study on the Diversity and Distribution of *Dictyota* J.V. Lamour. and *Canistrocarpus* De Paula & De Clerck in Peninsular Thailand. In: Phang S.M. & Lim P.E. (eds).

- Taxonomy of Southeast Asian Seaweeds II. Institute of Ocean and Earth Sciences, University of Malaya Monograph Series 15. University of Malaya Press, Kuala Lumpur. pp. 185-204
- Song, S.L. Lim, P.E. Phang, S.M., Lee, W.W., Hong, D.D. and **Pratthep, A.** 2014. Development of chloroplast simple sequence repeats (cpSSRs) for the intraspecific study of *Gracilaria tenuistipitata* (Gracilariales, Rhodophyta) from different populations. BMC Research Notes. 7(1),77
- 38) Wichachucherd, B, **Pratthep, A** and Zuccarello, J. 2014. Phylogeography of *Padina boryana* (Dictyotales, Phaeophyceae) around the Thai-Malay Peninsula. European Journal of Phycology. 49(3):313-323
- 39) Vy X Nguyen, Detcharoen, M., Tantiprapas, P., U Soe-Htun, Sidik, JB., Muta Z Harah, **Pratthep, A** and Papenbrock, J. 2014 Species identification and differentiation among and within populations of *Halophila* from the Western Pacific to Western Indian Ocean by ITS, AFLP and microsatellite analysis. BMC Evolutionary Biology. 14(1),92
- 40) Kaewsrihaw, R. and **Pratthep, A.** 2014 The effect of habitats, densities and seasons on morphology, anatomy and pigment content of the seagrass *Halophila ovalis* (R.Br.) Hook.f. at Haad Chao Mai National Park, Southern Thailand. Aquatic Botany. 116:69-75
- 41) Apichanangkool, P. and **Pratthep, A.** 2014 Changes in seagrass leaf reddening and morphology in responses to emergence conditions. Botanica Marina. 57(6):433-440
- 42) Pongparadon, S., Zuccarello, GC, Phang, SM, Kawai, Hanyuda, T and **Pratthep, A.** 2015. Diversity of *Halimeda* (Chlorophyta) from the Thai-Malay Peninsula. Phycologia 54(5):349-366
- 43) Tuntripras, P. Shimada, S. and **Pratthep, A.** 2015. Is *Halophila major* (Zoll.) Miquel a big *H. ovalis* (R.Brown) J.D.Hooker?: An evaluation based on age, morphology and ITS sequence. ScienceAsia. 41(2):79-86
- 44) Fujimoto, M., Nishihara, GN, **Pratthep, A** and Terada, T. 2015 The effect of irradiance and temperature on the photosynthesis of an agarophyte, *Gelidiella acerosa* (Gelidiales, Rhodophyta), from Krabi, Thailand. Journal of Applied Phycology. 27(3):1235-1242.
- 45) Rattanachot, E. and **Pratthep A.** 2015. Species-specific effect of seagrass on belowground biomass, redox potential and *Pillucina vietnamica* (Lucinidae). Journal of Marine Biological Association of United Kingdom, Vol. 95 (08): 1693-1704.
- 46) Rattanachot, E. and **Pratthep. A.** 2015. Species specific effects of three morphologically different belowground seagrasses on sediment properties. Estuarine, Coastal and Shelf Science, Vol 167: 427-435.
- 47) Kaewsrihaw, R., Ritchie, RJ. and **Pratthep, A.** 2016. Variations of tidal exposures and seasons on growth, morphology, anatomy and physiology of the seagrass *Halophila ovalis* (R. Br.) Hook. f. in a seagrass bed in Trang Province, Southern Thailand. Aquatic Botany. 130-11-20
- 48) Rattanachot, E., Short, F.T. and **Pratthep, A.** 2016 *Enhalus acoroides* responses to experimental short density reductions in Haad Chao Mai National park, Trang Province, Thailand. Marine Ecology-An Ecology Perspective. Vol.37(2): 411-418.
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- 52) Kakuta, S., Takeuchi, W. and **Pratthep, A.** 2016. Seaweed and Seagrass mapping in Thailand measured using LANSDAT 8 optical and textural image properties. Journal of Marine Science and Technology 24(6), 1155-1160.
- 53) Pongparadon, S., Zuccarello, GC, **Pratthep, A.** 2017. High Morpho-Anatomical Variability in *Halimeda maculosa* (Bryopsidales, Chlorophyta) in Thai Waters. Phycological Research. 65(2):136-145.
- 54) Stankovic, M., Panyawai, J. Jansanit, K., Upanoi, T. and **Pratthep, A.** 2017. Carbon Content in Different Seagrass Species in Andaman Coast of Thailand. Sains Malaysiana. 46(9), 1441-1447.
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- 59) Stankovic, M., Tantipisanuch, Rattanachot, E. and **Pratthep, A.** 2018. Model-based approach for estimating biomass and organic carbon in tropical seagrass ecosystems. Marine Ecology Progress Series 596:61-70.
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