# ANCHANA PRATHEP

Professor

## PROFILE

I am a marine ecologist by training, with a firm belief in research and education. Over the past 25 years, I have built Seaweed and Seagrass Research Unit and work with Excellence center for Biodiversity of Peninsular Thailand, where everyone who is interested in marine and coastal ecosystem and biodiversity can advance themselves in search for their knowledges. Currently, we focus on climate change and how these ecosystems can help mitigating the climate crisis through its blue carbon; as well as exploring the Nature based solution concept.

I currently lead the Faculty of Science with the hope to bring science to the community, promote the importance of science; and build up the new generation of scientists to "Move Toward a Better Science and Society" with the motto of our university "Our soul is for the benefit of Mankind"

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## EDUCATION

**The University of Liverpool, UK (2001)**
Doctor of Philosophy, Biological Science
**Prince of Songkla University, Thailand (1995)**
Bachelor of Science, Biology

## ADMINISTRATIVE POSITION

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|---|---|
| **2019- present** | Dean of Faculty of Science |
| **2014- present** | Director of Excellence Center in Biodiversity |
| **2012-2016** | Associate Dean in Research and Postgraduates |
| **2011-2014** | Program Director, Ecology (MSc., International) |
| **2011-2012** | Deputy Head of Biology Department |

## AWARDS

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|---|---|
| **2018** | Best Researcher Award, Faculty of Science, PSU |
| **2017** | Best Young Research, Algae and Plankton Society |
| **2012** | UNESCO-MAB: Ecological Science for sustainable development |
| **2009** | Best Young Lecturer Award, PSU |
| **2009** | Best Young Lecturer Award, Faculty of Science, PSU |

## CONTRIBUTION TO ACADEMIC SOCIETY AND OTHERS

- Secretary of Asia Pacific Phycological Forum
- Steering Committee members of Ocean Remote Sensing for Coastal Habit 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.
- Specialist for Marine Ecology and Coastal Habitat Committee of Department of Marine and Coastal Resources (DMCR), Ministry of Natural Resources and Environment.
- Team Leader, National Mangrove Alliance (TMA) Roadmap Workshop Project – Research, Innovation, and Utilization (Track 2)

## WORKSHOP/ TRAINING

- **Life Cycle Assessment (LCA) of Products**
  Thailand Greenhouse Gas Management Organization (Public Organization)
  23–25 July 2025
- **Advanced Product Carbon Footprint Assessment**
  Thailand Greenhouse Gas Management Organization (Public Organization)
  25–26 June 2025
- **Organizational Carbon Footprint Verification**
  Thailand Greenhouse Gas Management Organization (Public Organization)
  11–12 July 2024
- **Organizational Carbon Footprint Assessment**
  Thailand Greenhouse Gas Management Organization (Public Organization)
  27–28 June 2024
- **ISO 14065:2020 – Introduction and Internal Auditor Course**
  Management System Certification Institute (Thailand)
  24–25 April 2023

## 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 focused 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 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. Currently, we focus on the Nature based solution concept for the climate action to help reaching the sustainability goals.

## PUBLICATIONS


1) ***Prathep, 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) ***Prathep 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) ***Prathep, 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 ***Prathep, A.*** 2005 Seasonal and temporal variations in diversity of macroalgae in Samui island, Thailand. Songklanakarin Journal of Science and Technology. Vol/ 27(sppl.3):653-663.
5) ***Prathep,A.,*** Lewmanomont, K., Chottithammo, A. and Tantiprapaj, P. 2006. Population Dynamics of *Caulerpa raecemosa* (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) ***Prathep, 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***.,*** ***Prathep, 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) ***Prathep, 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 ***Prathep, A***. 2007. Diversity, abundance and distribution of macroalgae at Sirinart Marine National Park, Phuket Province, Thailand. Botanica Marina. 50(2):88-96.
10) ***Prathep 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. Jounral of Marine Research Indonesia 32(2):153-162
11) ***Prathep, 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 ***Prathep, 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) ***Prathep, 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. Aqautic Botany 90:179-183

14) Sinutok S., Pongparadon S. and ***Prathep A.*** 2008. Seasonal variation in density, growth rate and calcium carbonate accumulation of *Halimeda macroloba* Decaisne at Tangkhen Bay, Phuket Province, Thailand. Maylasian Journal of Science 27(2):1-8.
15) Pongparadon S., Thongroy, P. and ***Prathep 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., ***Prathep, 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 Cualerpa for Malaysia and Indonesia. Taxonomy of Southeast Asian Seaweeds, Phang, Lewmanomont, Lim (eds): pp 27-32.
17) ***Prathep, A.,*** Rattanachot E., Tantiprapas T., Prempree, 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) Rattnachot, E., Tantiprapas, P., Wichachucherd, B., Nokkate, N. and ***Prathep A***. 2008. Seasonal variation in coverage, canopy height, fruit density and bimss of subtidal seagrass *Halophila decipeins* 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 ***Prathep A.*** The Effect of Seagrass Coverage on Swmming Crabs (Portunidae) at Koh Tha Rai, Khanom-Mu Koh Talay Tai National Park, Nakorn Si Thammrat Province, Southern Thailand. Proceedings of the 6th IMT-GT UNINET Conference 2008. pp 324-329.
20) Wichachucherd, B., Liddle, L and ***Prathep, 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 shelterd area of Thangkhen Bay, Phuket province, Thailand. Aquatic Botany 92:93-98
21) Mayakun, J., Kim, J.H. and ***Pratherp, 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., ***Prathep, 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) ***Prathep, 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 ***Prathep, 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., ***Prathep, 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.
26) Coppejans, E., Leiaert, F. Vergruggen, H., ***Prathep, A***. and De Clerck, O. 2011 *Rhipidosiphon lewmanomontiae* sp. nov., a new calcified udoteacean species from the central Indo-Pacific on the basis of morphological and molecular investigations (Bryopsidales, Chlorophyta). Phycologia. 50(4):403-412.
27) ***Prathep, 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. Songkhlanakarin J. Sci. Technol. 33(6), 633-640.
28) Ni-Ni-Win, Hanyuda, T., Arai, S., Uchimura, M., ***Prathep***, 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 ***Prathep, 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., ***Prathep, A.*** 2012. The effects of herbivore exclusion and nutrient enrichment on growth and reproduction of *Halimeda macroloba* ScienceAsia. 38:227-234.
31) Mayakun, J. Kim, J.M., Lapointe, B., ***Prathep, A.*** 2012. Gametangial characteristics in the sexual reproduction of *Halimeda macroloba* Decaisne (Chlorophyta: Halimedaceae) Songklanakarin Journal of Science and Technology 35(4), 389-359.
32) Mayakun, J. Kim, J.M., Lapointe, B., ***Prathep, 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., ***Prathep, 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., Hemandez, I., Martinez-Crego, B., Mascaro, O., Perez, M., ***Prathep, 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 ***Prathep, 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 ***Prathep, A.***2013. Preliminary study on the diversity and distribution of *Padina* Adanson in Peninsular Thailand, including one new record, *Padina usoehtunii* 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 ***Prathep, 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. 185-204Song, S.L. Lim, P.E. Phang, S.M.,

Lee, W.W., Hong, D.D. and ***Prathep, 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, ***Prathep, 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, ***Prathep,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) Kaewsrikhaw, R. and ***Prathep, A.*** 2014 The effect of habitats, densitites 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. Aqautic Botany. 116:69-75
41) Apichanangkool, P. and ***Prathep, 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 ***Prathep, A***. 2015. Diversity of *Halimeda* (Chlorophyta) from the Thai-Malay Peninsula. Phycologia 54(5):349-366
43) Tuntriprapas, P. Shimada, S. and ***Prathep, 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) Fujumoto, M., Nishihara, GN, ***Prathep, 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 ***Prathep 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 ***Prathep. A.*** 2015. Species specific effects of three morphologically different belowground seagrasses on sediment properties. Estuarine, Coastal and Shelf Science, Vol 167: 427-435.
47) Kaewsrikhaw, R., Ritchie, RJ. and ***Prathep, 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 ***Prathep, A***. 2016 *Enhalus acoroides* responses to experimenatal short density reductions in Haad Chao Mai National park, Trang Province, Thailand. Marine Ecology-An Ecology Perspective. Vol.37(2): 411-418.
49) Rattanachot, E., and ***Prathep, A***. 2016. The effect of increasing seagrass root complexity and redox potential on the population of *Pillucina vietnamica* (Bivalvia: Lucinidae) in southwestern Thailand. Molluscan Research, 1-10.
50) Kaewsrikhaw, R., ***Prathep, A***., Darakrai, A. and Beer, S. 2016. Photosynthesis and calcification in two *Halimeda* species from Phuket, Thailand. Botanica Marina. 59(2-3),187-192.
51) Seiw-Moi Phang, HuiYin Yeong, Edna T. Ganzon-Fortes, Lewmanomont, K. ***Prathep, A***. Hau, L.N., Gerung, G. and Tan, K.S. 2016. Marine algae of the South Chaina Sea bordered by Indonesia, Malaysia, Phillipines, Singapore, Thailand and Vietnam. The Raffles Bulletin of Zoology, 34:13-59.
52) Kakuta, S., Takeuchi, W. and ***Prathep, A***. 2016. Seaweed and Seagrasss 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, ***Prathep, A***. 2017. High Morpho-Anatomical Variability in *Halimeda macroloba* (Bryopsidales, Chlorophyta) in Thai Waters. Phycological Research. 65(2):136-145.
54) Stankovic, M., Panyawai, J. Jansanit, K., Upanoi, T. and ***Prathep, A***. 2017. Carbon Content in Different Seagrass Spcies in Andaman Coast of Thailand. Sains Malaysiana. 46(9), 1441-1447.
55) Muangmai, N., Lewmanomont, K., ***Prathep, A***., Terada, R. and Zuccarello, GC. 2017. *Gracilaria coppejansii* sp.nov. (Gracilariales, Rhodophyta), a new flattened species from the Andaman coast of southern Thailand. Botanica Marina 60(5), 533-541.
56) Mayakun, J., Kim, JH, Lapointe, BE, ***Prathep, A***. 2017. Resource allocation of *Halimeda macroloba* Decaisne in relation to nitrogen and phosphorus enrichment. Songklanakarin Journal of Science & Technology 93(3): 269-273.
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59) Stankovic, M., Tantipisanuch, Rattanachot, E. and ***Prathep, 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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64) Chiarathanakrit, C., Mayakun, J., ***Prathep, A***. and Kaewtatip, K. 2019. Comparison of the effects of calcified green macroalga (Halimeda macroloba Decaisne) and commercial CaCO3 on the properties of starch foam trays. International Journal of Biological Macromolecules 121:71-76.
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67) Pongparadon, S., Nooek, S., and ***Prathep, A***. 2019. Phenotypic Plasticity and Morphological Adaptation of *Halimeda opuntia* (Bryopsidales, Chlorophyta) to Light Intensity. Phycological Research, doi: 10.1111/pre.12404
68) Duffy, J.M, Benedetti-Cecchi, L., Trainanes, J., Muller-Karger, F., Ambo-Rappe, R., Boström, C., Buschmann, A.J., Byrenes, J., Coles, R., Creed, J., Cullen-Unsworth, L., Diaz Pulido, G., Duarte, C., Edgar, G., Fortes, M., Gonia, G., Hu, C., Huang, Z., Hurd, C., Konar, B.,m Krause-Jensen, D., Krumhansl, K., Macreadie, P., Marsh, H., McKenzie, L., Mieszkowska, N., Miloslavich, P., Montes, E., Nakaoka, M., Norderhaug, K., Norlund, L., Orth, R., ***Prathep, A***., Putman, N., Samper-Villarreal, J., Serrao, E., Short, F., Sousa Pinto, I., Steinberg, P., Stuart-Smith, R., Unsworth, R., van Keulen, M., van Tussenbroek, B., Wang, M.,Waycott, M., Weatherdon, L., Wernberg, T. and Yaakub, S. Toward a coordinated global observing system of marine macrophytes. 2019. Frontier in Marine Sciences, 6:317.
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## BOOKS

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## RESEARCH GRANTS

I have led over 30 research projects throughout the years with various support from National and International funding agencies. Currently, the work has focused on seagrass blue carbon, climate mitigation and nature-based solutions.

| Project Title | Source of Funding | Period | Total Budget (Thai Baht) | Role (PI or Co-Investigator) |
|---|---|---|---|---|
| High performance researchers in carbon verifiers through Nature Based Solution for Carbon Net Zero | Development, Research and Innovation (PMU-B) | 2024 | 9,899,770 | PI |
| Solving problems based on nature (Nature-based Solution: NbS) aim for net zero greenhouse gas emissions and reduce biodiversity loss. using science Research and innovation | Thailand Science Research and Innovation | 2024 | 2,000,000 | PI |
| Coastal ecosystems as nature climate solution in Asia | Development, Research and Innovation (PMU-B) | 2024 | 4,082,500 | PI |
| New technology for the role of coastal ecosystems study and carbon storage within coastal ecosystem sediments assessment as Nature-based Solutions for climate mitigation in Asia | Office of National Higher Education Science Research and Innovation Policy Council | 2024 | 4,082,500 | PI |
| Carbon stock in planted mangrove area under the Electricity Generating Authority of Thailand project. | Electricity Generating Authority of Thailand | 2023 | 664,625 | Co-Investigator |
| Capacity Building on Nature Based Solution for Carbon Net Zero | Development, Research and Innovation (PMU-B) | 2023 | 19,160,500 | PI |
| International standards methodology development for Thailand Voluntary Emission Reduction program in seaweed and seagrass area | Thailand Greenhouse Gas Management Organization (TGO) | 2022 | 400,000 | PI |
| Monitoring and assessment of dugong feeding area and networking for seagrass and dugong research. | TUYF Charitable Trust Fund | 2022 | 9,890,000 | PI |
| Blue carbon in restored seagrass meadows as a potential nature-based solution for climate change mitigation in Thailand | National Research Council of Thailand (NRCT) | 2022 | 2,453,000 | PI |
| Seagrass restoration and monitoring at Sikao Trang province | National Research Council of Thailand (NRCT) | 2021 | 1,193,792 | PI |
| Seagrass restoration and its ecosystem service | National Research Council of Thailand (NRCT) | 2021 | 2,919,032 | PI |
| Seagrasses and its blue carbon under the climate change world | CoE Biodiversity, Higher Education office | 2020 | 1,700,000 | PI |

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| Biodiversity at Bann Mod Ta Noi, Trang Province. | Siam Cement Group (SCG) | 2019 | 1,200,00 | PI |
| Seagrass complexity as a good home for marine life | CoE Biodiversity, Higher Education office | 2018 | 3,000,000 | PI |
| Seagrass as a carbon sink : a role of seagrass in the world climate change | Research and development Office (RDO), Prince of Songkla University | 2018 | 638,200 | PI |
| *Sargassum* diversity, population, distribution and its potential as bioresource in Thailand | Biodiversity-Based Economy Development Office (Public Organization) | 2018 | 2,200,000 | PI |
| Climate change and Carbon sink using Halimeda as a model organism | National Science and Technology Development Agency and Public Company Limited (NSTDA-PTT) | 2017 | 1,800,000 | PI |
| Seagrass Distribution at Haad Chao Mai National Park, Trang Province | National Science and Technology Development Agency (NSTDA) | 2017 | 1,876,000 | PI |