

REFERENCES

- Ambrogi, R., Bedulli, D. and Zurlini, G. 1990. Spatial and temporal patterns in structure of macrobenthic assemblages. A three-year study in the Northern Adriatic Sea in front of the Po River Delta. P.S.Z.N.I.: **Marine Ecology** 1191: 25-41.
- Angsupanich, S. and Kuwabara, R. 1995. Macrofauna in Thale Sap Songkla, a brackish lake in southern Thailand. **Lake & Reservoirs: Research and Management** 1:115-125.
- Angsupanich, S. and Kuwabara, R. 1999. Distribution of macrobenthic fauna in Phawong and U-Taphao canals flowing into a logoonal lake, Songkhla, Thailand. **Lakes & Reservoirs: Research and Management** 4: 1-13.
- Aryuthaka, C. 1990. Ecological studies on meiofauna community in Kung Krabaen Bay, Chanthaburi. **Proceeding the Seminar on Fisheries**, 17-19 September 1990. Bangkok, National Inland Fisheries Institute: 624.
- Aryuthaka, C., Sungthong, S. and K. Awaiyawanon. 1992. Sea-grass resources in Kung Krabaen Bay, Chanthaburi Province. **Technical Paper**. Eastern Marine Fisheries Development Center, Department of Fisheries: 19.
- Augener, H., 1918. Polychaeta. **Beitrage zur Kenntnis des Meeresfauna West-Afrikas** 2: 67-625.
- Bailey-Brock, J.K., Treyz, B.A. and Ward, L.A. 1991. Polydorid species from sewage outfalls and aquaculture ponds on Oahu, Hawaii. **Bulletin of Marine Science**, 48(2): 584-596.
- Bianchi, T.S. 1988. Feeding ecology of subsurface deposit-feeder *Leitoscoloplos fragilis* Verrill. I. Mechanisms affecting particle availability on intertidal sandflat. **J. Exp. Mar. Biol. Ecol.**, vol. 115, pp 79-97.
- Blackburn, T. H., Kleiber, P. and Fenchel, T. 1975. Photosynthetic sulfide oxidation in marine sediment. **Oikos**, 26.pp. 103-108.
- Blake, J.A. 1975. Phylum Annelida: Class Polychaeta, pp. 151-243. In: **Light's Manual: Intertidal Invertebrates of the Central California Coast**, edited by R.I. Smith and J.T. Carlton. Third edition, University of California Press.
- Blake, J.A. 1991. Revision of some genera and species of Cirratulidae (Polychaeta) from the western North Atlantic. **Ophelia, Supplement** 5: 17-30.
- Blake, J.A. and Kudenov, J.D. 1978. The spionidae (Polychaeta) from southern Australia and adjacent areas with a revision of the genera, pp.171-280, In: **Memoirs of the National Museum of Victoria**, no. 39, editors D.M. Stone. Published by order of the council, Melbourne Australia.
- Boaling, W., Ruiping, S. and Yang, D. J.1985. **The Nereidae (Polychaetous Annelids) of the Chinese Coast**. China Ocean Press Beijing and Springer-Verlag, Berlin Heidelberg, Beijing: 234.
- Boonruang, P. 1978. The degradation rates of mangrove leaves of *Phizophora apiculata* (Bl.) and *Avicennia marina* (Forsk.) Vierh. At Phuket Island, Thailand. **Phuket Mar. Biol. Cent. Res. Bull.**, 26:7 pp.
- Boonsong, K. 1997. **An Integrated planning and Management Framework for the Sustainable Development of Shrimp Farming in Kung Krabaen Bay, Chanthaburi Province, Thailand**. A dissertation for the degree of Doctor of Technical Science, School of Environment, Resources and Development. Asian Institute of Technology. Bangkok, Thailand.

- Boyd, C.E. 1979. Water quality in warmwater fish ponds. **Agricultural Experiment Station. Department Of Fisheries and Allied Agricultures.** Alabama, Auburn University: 359.
- Butman, C.A. 1987. Larval settlement of soft-sediment invertebrates: the spatial scales of patterns explained by active habitat selection and the emerging role of hydrodynamical processes. **Oceanography and Marine Biology Annual Review** 25:113-165.
- Carr, M.R. 1997. **PRIMER user manual:** Plymouth routine in multivariate ecological research. Plymouth Marine Laboratory: 40.
- Chanthaburi Provincial Royal Forestry Office Report.1995. **Basic information study on forests observation project in Kung Krabaen Bay, Chanthaburi Province:** 84.(in Thai)
- Charoenpanich, C., Montani, S., Tsutsumi, H. and Matsuoka, S. 1993. Modification of chemical characteristics of organically enriched sediment by Capilla sp.1. **Marine Pollution Bulletin** 26(7): 375-379.
- Charoenrouy, M. 1979. Benthos in the inner Gulf of Thailand. **Thai Fish Gazett**, 32(2): 169-177. (in Thai)
- Charoenrouy, M. and Piamthipmanus, N. 1981. Benthos in the Gulf of Thailand, Surajthani Province. **Technical Report**, 23/6, Marine Laboratory, Marine Fisheries Division: 13. (in Thai)
- Charoenrouy, M., Piamthipmanus, N. and Sanguansin, J. 1983. Benthic animals in Chong Angtong, 1981. **Technical Report**, 25/8, Marine Laboratory, Marine Fisheries Division: 13. (in Thai)
- Chatananthawej, B. and Bussarawit. 1987. Quantitative survey of the macrobenthic fauna along the west coast of Thailand in the Andaman Sea. **Phuket Mar. Biol. Cent. Res. Bull.**47: 23.
- Clarke, K.R. and Warwick, R.M. 1994. **Change in marine communities: An approach to statistical analysis and interpretation.** Plymouth: Plymouth Marine Laboratory: 144.
- Clavier, J., Chardy, P. and C. Chevillon. 1995. Sedimentation of particulate matter in the southwest lagoon of New Caledonia: Spatial and temporal patterns. **Estuar. Coast. Shelf Sci.** 40:281-294.
- Department of Land Development. 1981. Master plan for landuse development in Chanthaburi Province: 250. (in Thai)
- Diaz, R.J. and R. Rosenberg. 1995. Marine benthic hypoxia: a review of its ecological effects and the behavioral responses of benthic macrofauna. **Oceanography and Marine Biology: an Annual Review** 33: 245-303.
- Drew, E.A. 1971. Botany. Chapter 6, pp. 175-233, Oxford University Press, London. In: J.D.Woods & J.N. Lythgoe (eds), **Underwater Science. An introduction to experiments by divers:** 330.
- Elias, R. 1992. Quantitative benthic community structure in Blanca Bay and its Relationships with organic enrichment. P.S.Z.N.I. **Marine Ecology** 13(3): 189-201.
- Fauchald, K. 1977. Polychaete worms, definitions and keys to the Orders, Families and Genera. **National History Museum of Los Angeles county, Science Series** 28:1-190.
- Fisher, J.B., Lick, P.L., McCall, P.L. and J.A. Robbins. 1980. Vertical mixing of lake sediments by tubificid oligochaetes. **J. Geophys. Res.** 85: 3997-4006.

- Fauvel, P. 1928. Polychaetes nouvelle de l'Inde, I. **Bull Mus. d'Hist. Nat. Paris** 34: 159-165.
- Fauvel, P. 1953. **The fauna of India including Pakistan, Ceylon, Burma and Malaya. Annelida Polychaeta.** Allahabad The Indian Press XII: 507.
- Fenchel, T. 1969. The ecology of marine microbenthos IV. Structure and function of the benthic ecosystem, its chemical and physical factors and microfauna communities with special reference to the ciliated protozoa. **Ophelia** 6: 1-182.
- Fenchel, T. and B.O. Jansson, 1966. On the vertical distribution of the microfauna in the sediments of a brackish water beach. **Ophelia** 3: 161-177.
- Gambi, M.C., Lorenti, M., Russo, G.F., Scipione, M.B. and Zupo, V. 1992. Depth and seasonal distribution of some groups of the vagile fauna of the Posidonia oceanica leaf stratum: structural and trophic analysis. **P.S.Z.N.I.: Marine Ecology** 13(1): 17-39.
- Gordon, D.C. Jr., Boudreau, P.R., Mann, K.H., Ong, J.E., Silvert, W.L., Smith, S.V., Wattayakorn, G., Wulff, F. and Yanagi, T. 1996. **LOICZ Biogeochemical Modelling Guidelines. LOICZ Reports & Studies** 5, Second Edition, vi +96 pp. LOICZ, Texel, Netherlands.
- Grall, J. and Glemarec, M. 1997. Using Biotic Indices to Estimate Macrobenthic Community Perturbations in the Bay of Brest. **Estuarine, Coastal and Shelf Science** 44:43-53.
- Grassle, J.F. and Grassle, J.P. 1974. Opportunistic life histories and genetic systems in marine benthic polychaetes. **Woods Hole Oceanographic Inst. Contr.** 3244: 253-284.
- Gray, J. 1981. **The Ecology of Marine Sediments.** Cambridge University Press:185.
- Hendrickx, M.E. 1984. Abundance of some selected detritus in a Thai mangal. **Phuket Mar. Biol. Cent. Res. Bull.** 31:11.
- Holme, N.A. and McIntyre, A.D. 1984. **Methods for the study of marine benthos.** London, Blackwell Science Publications: 387.
- Hylleberg, J. and Nateewathana, A. 1984. Response of polychaete families to monsoon- and offshore mining-associated sediment disturbance. **Proceeding of the First International Polychaete Conference**, Sydney, edited by P.A. Hutching, published by The Linnean Society of New South Wales: 279-291.
- Hylleberg, J. and Nateewathana, A. 1984. Temporal and spatial distribution of nephthyid polychaetes at Phuket Island, Andaman Sea. **Proceeding of the First International Polychaete Conference**, Sydney, edited by P.A. Hutching, published by The Linnean Society of New South Wales: 292-302.
- Hylleberg, J. and Nateewathana, A. 1988. Polychaetes of Thailand. Nereididae (part 2): Ceratocephale and Gymnonereis, with description of two new species and notes on the subfamily Gymnonereidinae. **Phuket Marine Biological Center Research Bulletin**, 49: 1-20.
- Hylleberg, J. and Nateewathana, A. 1991. Polychaetes of Thailand, Spionidae (part 1): *Prionospio* of the Steenstrupi Group with Description of Eight New Species from the Andaman Sea. **Phuket Mar. Biol. Cent. Res. Bull.** 55: 1-32.
- Hylleberg, J. and Nateewathana, A. 1991. Temporal and spatial distribution of subtidal magelonid polychaete at Phuket Island, Thailand, Andaman Sea. **Ophelia Suppl.** 5: 573-578.

- Hylleberg, J., Nateewathana, A. and Chatananthawej, B. 1985a. Temporal changes in the sediment characteristics on the west coast of Phuket Island. **Phuket Mar. Biol. Cent. Res. Bull.**, 37: 1-16.
- Imajima, M. 1989. Poecilochaetidae (Annelida, Polychaeta) from Japan. **Bulletin of the National Science Museum, series A (Zoology)** 15(2): 61-103.
- Imajima, M. 1989. Spionidae (Annelida, Polychaeta) from Japan I. The genus *Aonides* and *Apopriionospio*. **Bulletin of the National Science Museum, series A (Zoology)** 15 (4): 213-222.
- Imajima, M. 1990. Spionidae (Annelida, Polychaeta) from Japan II. The genus *Prionospio* (*Aquilaspio*). **Bulletin of the National Science Museum, series A (Zoology)** 16(1): 1-13.
- Imajima, M. 1990. Spionidae (Annelida, Polychaeta) from Japan III. The genus *Prionospio* (*Minuspio*). **Bulletin of the National Science Museum, series A (Zoology)** 16(2): 61-78.
- Imajima, M. 1990. Spionidae (Annelida, Polychaeta) from Japan IV. The genus *Prionospio* (*Prionospio*). **Bulletin of the National Science Museum, series A (Zoology)** 16(3): 105-140.
- Imajima, M. 1990. Spionidae (Annelida, Polychaeta) from Japan VI. The *Malococeros* and *Rhynochospio*. **Bulletin of the National Science Museum, series A (Zoology)** 17(1): 5-17.
- Imajima, M. 1991. Spionidae (Annelida, Polychaeta) from Japan VII. The genus *Spiophanes*. **Bulletin of the National Science Museum, series A (Zoology)** 17(3): 115-137.
- Jacobson, D.E. 1997. A new species of *Scolelepis* (Polychaeta: Spionidae), highly abundant on the sand beaches of western Phuket Island, Thailand. **Bulletin of Marine Science** 60(2): 240-251.
- Jarumillo, E., Bertran, C. and A. Bravo. 1992. Community structure of the subtidal macrofauna in and estuarine mussel bed in Southern Chile, P.S.Z.N.I.: **Marine Ecology**, 13(4): 317-331.
- Katsamut, S., Piamthipmanus, N. and Charoenrouy, M. 1980a. Benthic animals of the west coast of the Gulf of Thailand, 1997. **Technical Report**, 22/13, Marine Laboratory, Marine Fisheries Division: 1-29. (in Thai)
- Kennish, M.J. 1992. **Ecology of estuaries: Anthropogenic effects**. Florida, CRC Press:191.
- Khomvilai, C. 1997. **Distribution and sediment modification potential of some marine benthic polychaetes**. Thesis Master of Science (Fisheries Science), Kasetsart University, Thailand: 92.
- Kikuchi, T. 1991. Marinebenthic Succession in the Organically Polluted Waters, and Ecological Characteristics of Some Pollution Indicator Species, pp.145-163. In: **Marine Biology**, editors John Mauchline and Takahisa Nemoto.
- Kilmer, V.J. and Alexander, L.T. 1949. **Method of making mechanical analysis of soil**. Soil Science: 8-24.
- Krebs, C. J. 1978. **The Experimental Analysis of Distribution and Abundance**, Second Edition. New York, Harper & Row Publishers: 678.
- Kung Krabaen Bay Royal Development Study Center. 1994-2000. **Annual Report Year 1994-2000**. Kung Krabaen Bay Royal Study Development Center, Chanthaburi.

- Lewmanomont, K. and Ogawa, H. 1995. **Common seaweeds and seagrasses of Thailand.** Integrated Promotion Technology:164.
- Licher, F. and Westheide, W. 1998. New and newly assigned species of the genus *Dentatisyllis* (Polychaeta, Syllidae, Syllinae), with comments on the reproduction, together with a key and a synoptic table of all species of the genus. **Sarsia** 83: 29-43
- Limpsaichol, P. 1978. Reduction and oxidation properties of the mangrove sediment, Phuket Island. Southern Thailand. **Phuket Mar. Biol. Cent. Res. Bull.** 23:13.
- Mackie, A. S. Y. 1991. A new species of *Scoloplos* (Polychaeta: Orbiniidae) from Hong Kong and a comparison with the closely related *Scoloplos marsupialis* Southern, 1921 from India. **Asian Marine Biology** 8: 35-44.
- Mackie, A. S. Y. 1996. **Taxonomy and phylogeny of spioniform polychaetes (Annelida).** Dissertation. Goteborg University, Faculty of Natural Science. Sweden.
- Marumo, R., Laoprasert, S. and Karnjanagesorn, C. 1985. Plankton and near-bottom communities of the mangrove regions in Ao Khung Krabaen and the Chanthaburi River, Thailand: 55-75. In: **Mangrove estuarine ecology in Thailand.** Thai-Japanese Cooperative Research Project on Mangrove Productivity and Development.
- Meteorological Department. 1997-2000. **Precipitation, Evaporation, and Rain-days Data in Chanthaburi Province.**
- Nakasone, K., Limsakul, S. and Tirsrisook, K. 1985. Degradation of leaf litter by grapsid crabs and a snail in the mangrove forests of Ao Khung Kraben and Mae Nam Wen, Thailand: 21-39. In: **Mangrove estuarine ecology in Thailand.** Thai-Japanese Cooperative Research Project on Mangrove Productivity and Development.
- Nateewathana, A. and Hylleberg, J. 1988. *Heptaceras hyllebergi* sp. n. (Polychaeta: Onuphidae) from Kata Beach, west coast of Phuket Island, Andaman Sea, Thailand, with notes on the habitat. **Phuket Marine Biological Center Research Bulletin** 48:1-9.
- Nozawa, K., Limsakul, S. and Chalayondeja, K. 1985. **Oceanographic characteristics in Ao Khung Krabaen and Mae Nam Wen, Thailand.** Thai-Japanese Cooperative Research Project on Mangrove Productivity and Development: 99-112.
- Odum, E.P. and Odum, H. T. 1959. **Fundamentals of ecology.** Philadelphia & London W.B. Saunders: 546.
- Pearson, T.H. and Rosenberg, R. 1978. Macrobenthic succession in relation to organic enrichment and pollution of the marine environment. **Oceanogr. Mar. Biol. Ann. Rev.** 16:229-311.
- Petersen, M. E. and George, J. D. 1991. A new species of *Raricirrus* from northern Europe, with notes on its biology and a description of the affinities of the genus (Polychaeta: Ctenodrilidae). **Ophelia Suppl.** 5: 185-208.
- Pettibone, M.H. 1966. Revision of the Pilargidae (Annelida: Polychaeta), including descriptions of new species, and redescription of the pelagic *Podamus ploa* Chamberlin (Polynoidea). **Proceedings of the United States National Museum**, Washington D.C., Smithsonian Institution 118(3525): 155-206.
- Phillips, M.J. 1995. Shrimp culture and the environment: 37-62. In: Bagarinao T.U., Flores, EEC (eds.), **Towards Sustainable Aquaculture in Southeast Asia and Japan.** SEAFDEC Aquaculture Department, Iloilo, Philippines.

- Piamtipmanus, M. 1997. Temporal changes in the abundance of macrobenthos in the South China Sea, Area I: Gulf of Thailand and East Coast of Peninsular Malaysia. **Proceeding of the First Technical Seminar on Marine Fishery Resources Survey in the South China Sea**, 24-26 November 1997, Bangkok: 156-171.
- Piyakarnchana, T., Tamiyavanich, S., Jirarochana, N. and Setti, N. 1978. On the density and biomass of the marine benthos in the Gulf of Thailand and Andaman Sea: 209-222. In: **Proceeding of the symposium on marine pollution research in Thai Water, 20-23 March 1978**, National Research Council of Thailand. (in Thai)
- Pollution Control Department. 1997. **Development of an action plan to improve water quality in the central river basin, Thailand**, Main Report. Thailand Environment Foundation Montagomery Watson Asia Coastal Consultancy International Pty Ltd.
- Prasertwong, P. 1984. Recolonization of marine benthic fauna after offshore tin mining. **Master Thesis**, Chulalongkorn University, Thailand: 80.
- Raman, A.V. and P.N. Ganapati. 1987. Benthic Polychaete Macrofauna and Pollution in Visakhapatnam Harbor, India: 463-484. In: **Indian Ocean: Biology of Benthic Marine Organisms**, edited by M-F Thompon, R. Sarojini and R. Nagabhushanam. A.A. Balkema/Rotterdam.
- Reish, D.J. 1972. The use of marine invertebrates as indicators of varying degree of marine pollution. In: **Marine pollution and sea life**: 203-207. Ed. By M. Ruivo. London: Fishing News (Books).
- Rhoads, D.C. 1974. Organism-sediment relations on the muddy sea floor. *Oceanogr. Mar. Biol. Annu. Rev.* 12: 263-300.
- Sasaki, T. and Inoue, H. 1985. Studies on fundamental environments in the Khung Krabaen Bay, Eastern Thailand, I. Hydraulic Environments: 77-98. In: **Mangrove estuarine ecology in Thailand**, Thai-Japanese Cooperative Research Project on Mangrove Productivity and Development 1983-1984.
- Sangrungruang, C. 1997. **Effect of shrimp pond effluent on soil and sediment qualities in Kung Krabaen Bay**. Master of Science (Aquaculture), Kasetsart University: 168. (in Thai)
- Sangrungruang, C. and Dumrak, B. 1998. Impact of shrimp (*Penaeus monodon* Fabricius) pond effluent to soil qualities at Kung Krabaen Bay. **Technical Paper**, 12/1998. Kung Krabaen Bay Fisheries Development Study Center, Chanthaburi: 21. (in Thai)
- Sanguansin, J. 1989. The Benthic Macrofauna in the Eastern Coast of the Gulf of Thailand (Samae San Strait – Trat). **Technical Paper** No. 18. Eastern Marine Fisheries Development Center:50.
- Sanguansin, J. and Paphavasit, N. 1982. Macrofaunal Communities in the Tha Chin Estuary. **The second Seminar on National Marine Science**, September 8-11.
- Sanguansin, J. 1995. Benthic macrofauna as an indicator for water quality determination in Phe Bay, Rayong Province, Thailand. **Proceedings of the International Seminar on Marine Fisheries Environment, 9-10 March 1995**, Rayong, Eastern Marine Fisheries Development Center: 67-84. (in Thai)
- Satapornvanit, K. 1993. **The environment impact of shrimp farm effluent**. Ms. Thesis, AIT: 152.
- Seidenfaden, G., Smitinand, T., and Thorson, G. 1968. Report on the fifth Thai-Danish Expedition, 1966. **Nat. Hist. Bull. Siam Soc.** 22: 245-261.
- Shannon, C.E. and W. Weaver. 1963. **The mathematic theory of communication**. Urban, University of Illinois Press: 111.

- Shin, H.C. and Koh, C-H. 1999. Effects of pollutants on benthic communities on Korea coastal waters. **Proceedings of the First Korea-Thailand Joint Workshop on Comparison of Coastal Environment.** Korea-Thailand: 238-252.
- Songsangjinda, P., La-onsiriwong, L., and Intramontree, C. 2000. Flux of nitrogenous compounds at water-sediment interface in marine shrimp ponds. **Technical Paper No. 1/2000**, Marine Shrimp Research and Development Center, Department of Fisheries. 13.
- Songsangjinda, P. and Tunvilai, D. 1993. Pollution loading from an intensive tiger shrimp farm. **Technical Paper No. 15/1993**, National Institute of Coastal Aquaculture, Department of Fisheries. 14.
- Smith, S.V., Dupra, V. , Crossland, J.I. Marshall and Crossland, C.J. . 2000. Estuarine systems of the South China Sea region: carbon, nitrogen and phosphorus fluxes. **LOICZ Reports & Studies No. 14**, kk + 156 pages, LOICZ IPO, Texel, Netherlands.
- Strelzov, V.E. 1979. **Polychaete worms of the Family Paraonidae Cerruti, 1909 (Polychaeta, Sedentaria).** Smithsonian Institution. Oxonian Press Put. Ltd, India: 212 p. (Translated from Russian).
- Sudara, S., Nateekanjanalarp, S., Thamrongnawasawat, T., Satumanatpan, S., and Chindonnirat, W. 1991. Survey of fauna associated with the seagrass community in Ao Khung Krabaen Chanthaburi, Thailand. **Proceedings of the Regional Symposium on Living Resources in Coastal Areas**, 30 Jan.-1 Feb., 1989, Manila, Philippines: 347-352.
- Suthemechaikul, N. and Wongsaengchan, A. 1995. Quantity and quality of discharged water from intensive marine shrimp farming under the Royal Project at Kung Krabaen Bay, Chanthaburi, Eastern Thailand. **Technical Paper No. 9/1995**, Coastal Aquaculture Division, Department of Fisheries. 56.
- TESCO Report. 1994. **Complete report on the seawater irrigation project for shrimp farming in Kung Krabaen Bay**, Chanthaburi Province: 180.(in Thai)
- Tookwinas, S. and Sangrungruang, C. 1998. Study on the impact of intensive marine shrimp farms effluent on sediment quality in Kung Krabaen Bay, Eastern Thailand. **Technical Paper no. 2/1998**, Kung Krabaen Bay Royal Development Study Center: 1-21.
- Touchiness, S., Sangrungruang, C. and Mastsuda, O. 1999. Aquatic environment management in an intensive marine pond for mitigation the impact of discharged water on coastal area. **Technical paper no. 2/1999**. Kung Krabaen Bay Royal Development Study Center: 1-20.
- Tookwinas, S., Suthemechaikul, N., and Wongsaengchan A. . 1996. The environmental impact of intensive marine shrimp farming effluent and carrying capacity estimation at Kung Krabaen Bay, Chanthaburi, Eastern Thailand. **Technical Paper No. 5/1996**. Coastal Aquaculture Division, Department of Fisheries: 29.
- Tsutsumi, H. 1995. Impact of fish net pen culture on the benthic environment of a cove in south Japan. **Estuaries** 18(1A): 108-115.
- Tsutsumi, H. and Kikuchi, T. 1983. Benthic ecology of a small cove with seasonal oxygen depletion caused by organic pollution. **Amakusa Marine Biological Laboratory, Kyushu University** 7(1): 17-40.
- Tunvilai, D., Chaiyakam, K. and Songsangjinda, P. 1993. Variation of phosphorus compounds in the intensive shrimp farm system. **Technical Paper No. 7/1993**, National Institute of Coastal Aquaculture, Department of Fisheries. 18.
- Uschakov, P.V. and Bao-ling, W. 1979. Polychaeta Errantia of the Yellow Sea. **Fauna Morei Severo-Zapadnoi Chasti Tikhogo Okeana, Issledovaniya Fauny Morei**, 3(11): 145-258. (Translated from Russian).

- Vismann, B. 1991. Sulfide tolerance: physiological mechanisms and ecological implications. *Ophelia* 34: 1-27.
- Vorathep, M. and Lin, C.K. 1996. Water quality and nutrient budget in intensive marine shrimp culture ponds. **Technical Paper** 71/1996. Institute of Marine Science, Burapha University: 28.
- Walkly, A. and J.A. Black. 1934. An examination of the degtjareff method for determining soil organic matter and a proposed modification of the chromic acid titration method. **Soil science** 37:29-38.
- Warwick, R.M. 1986. A new method for detecting pollution effects on marine macrobenthic communities. **Marine Biology** 92: 557-562.
- Wass, M.L. 1967. Indicators of pollution: 271-284. In: **Pollution and Marine Ecology**, Ed. By T.A.Olson and F.J. Burgess. New York.
- Wattayakorn, G. and Prapong, P. 1998. Carbon, nitrogen and phosphorus budgets of Ban Don Bay. Appendix A: Economic Evaluation and Biogeochemical Modeling of the Impact of Shrimp Farming on the Mangrove Systems of Ban Don Bay, Surat Thani Province, Southern Thailand. **SARCS/WOTRO/LOICZ Thailand Core Research**, Annual Report.
- Willey, A., 1905. Report on the Polychaeta collected by Professor Herdman at Ceylon. 1902. **Roy. Soc. Rep. On Pearl Oyster Fisheries, Suppl. Rep.**, XXX: 243-324, pls. I-VIII.
- Yokokawa, T. 1984. **Water and soil analysis for tropical aquaculture**. National Institute of Coastal Aquaculture (NICA), Songkhla, Thailand.
- Young, D.K. and Rhoads, D.C. 1971. Animal-sediment relationship in Cape Cod Bay, Massachusetts.I.A. transect study. **Marine Biology** 11:242-254.
- Zar, J.H. 1996. **Biostatistical analysis**. London, Prentice-Hall International.

BIOGRAPHY

Mr. Bamroonsak Chatananthawej was born on December 1, 1956 in Nonthaburi Province. He got the bachelor degree in fisheries in 1979 and the master degree in the natural resources management in 1993 from Kasetsart University.

He is interesting in marine biology, environment and invertebrate taxonomy. He has been trained in marine biology and visited to various museums, i.e. the Zoological Museum, Copenhaken, Denmark; the Raffle Museum, Singapore and the Natural History Museum, U.K.

In the present, he has served as a fishery biologist in Department of Fisheries, Ministry of Agriculture and cooperatives, since 1979.

