

Component 6 (Set-net)

- Progress Report on Japanese-type set-net, in Thailand

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Japanese type set-net was introduced to Rayong Province, Thailand, in 2003, and successfully operated by the fisher's group with full records of catch and market data for 11 years. For aiming the assessment of fishing impact and sustainability of Rayong set-net, the following research activities are on-going since 2009, in collaboration with other component teams under the umbrella of Area Capability Project by Research Institute of Humanity and Nature, Kyoto, Japan.

- (i) Monitoring & Evaluation of set-net operation with daily catch/market data, for understanding the accumulation performance of chamber trap according to the hauling intervals.
- (ii) Flow logger data analysis for understanding the gear geometry of chamber net, in relation with the catch trend of set-net
- (iii) Operation strategy of coastal fishing boats, with the interval video recordings around set-net in collaboration with Fishing Gear team (Component 1)
- (iv) Wind logger data analysis for understanding the operation patterns of set-net and other coastal fishing gears, according to the seasonal change of wind direction and speed
- (v) Income simulation for set-net fishers, with own fishing activities of other coastal gears such as gill net, trap, and trolling
- (vi) Trophic level analysis of set-net catch composition, with the stable isotope analysis of muscle tissues and stomach contents of major catch species, in collaboration with Environment team (Component 3)
- (vii) Impact of set-net technology introduction on fish marketing through the distribution channel analysis in Rayong

Analysis results of research topics above have been presented at the annual meetings of Japanese Society of Fisheries Science, as well as other international seminars, since 2012, and will be submitted for publication as the original scientific paper in Fisheries Science for wrap-upping the research activities in Rayong through the discussion meeting among team members of Component 6, in collaboration with other teams.