

**Marine Resources Caught by Fishery Research Vessel
in the Southern Gulf of Thailand During 2004-2005**

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Abstract

Study on marine resources in the Southern Gulf of Thailand which covered from Ko Samui district, Surat Thani Province to Takbai district, Narathiwat Province was carried out by otter board trawler with 40 millimeter mesh size of cod-end and 25 millimeter mesh size of covernet, research vessel Pramong 9. The 174 successful hauls were conducted during February 2004 – August 2005, 4 cruises/year at 23 stations covering the depth zone 10-50 meters. The overall average catch per unit effort (CPUE) was 25.39 kg/hr. The catch composition of marine resources consisted of true trash fish 42.92 %, demersal fish 28.46 %, cephalopods 22.59 %, pelagic fish 3.16 %, crab 1.16 %, miscellaneous species 1.13 % and shrimps 0.38 %. The CPUE of area Singhanakorn district, Songkhla Province to Takbai district, Narathiwat Province was significant higher than area Southern of Ko Samui district, Surat Thani Province to Pakpanang district, Nakhon Si Thammarat Province ($p < 0.05$). The CPUE of each groups of demersal fish, cephalopods, shrimps and miscellaneous species were significant among the area. The CPUE of pelagic fish, cephalopods, shrimps and miscellaneous species considered by water depth was significant ($p < 0.05$) whereas the CPUE considered by month was non-significant ($p > 0.05$). Demersal fish and cephalopods were found high density in the deep water whereas the other groups were found high density in the shallow water. The distribution of marine resources group catch rate was between 0.01-66.99 kg/hr. The CPUE of total catch by station was between 11.33-96.41 kg/hr. The measured lengths of 45 species in 2005 were smaller than that in 2004. The escapement pass through 40 millimeter of cod-end mesh size was 37.77 % which was composed of 98 species.

Key words : marine resources, otter board trawler, fishery research vessel,
southern Gulf of Thailand

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