



# Utilizing Vessel Monitoring System(VMS) to Developing the Assessment of Demersal Fish Resource Status in Thailand

---

APFIC Regional Expert Workshop  
on Tropical Trawl Fishery Management  
30 September - 4 October 2013  
Phuket, Thailand

---

Sampan Panjarat  
Andaman Sea Fisheries Research  
and Development Center (Phuket)  
DOF, Thailand

# Port Sampling



sampling of  
trawlers



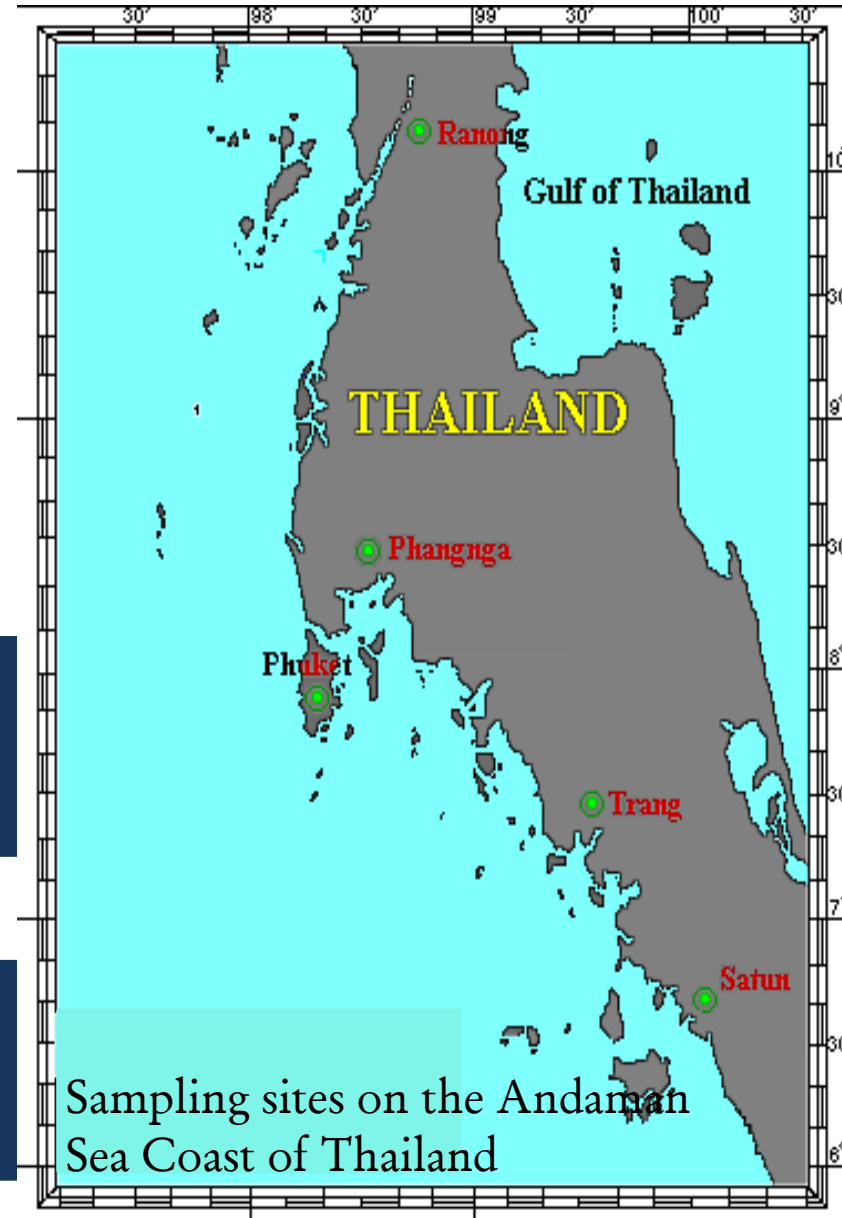
interviews with  
fishing masters



estimating catch



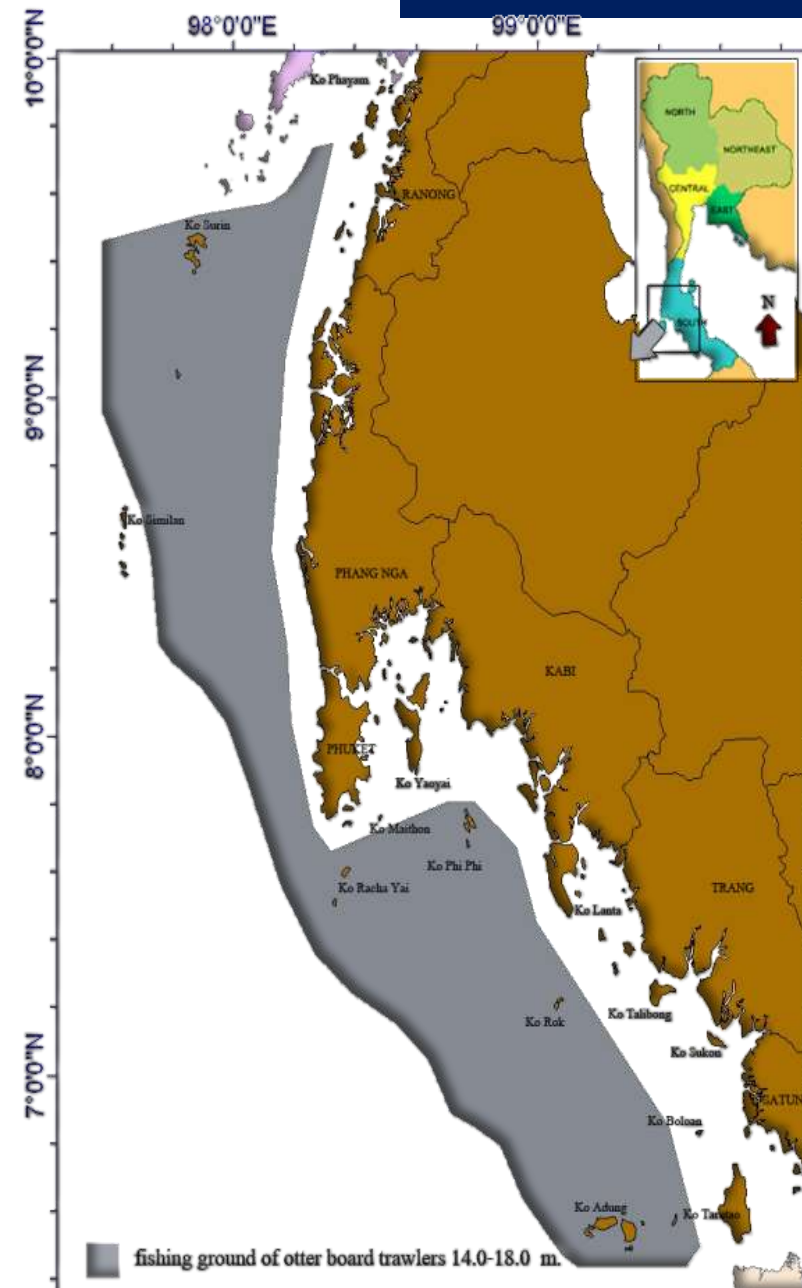
sampling &  
measuring fish



# Gaps of Port Sampling

## Spatial & Temporal Aspects

- high/low productive areas
- high/low input fishing effort
- areas of large/small fish
- areas of particular fish
- period of high/low productive
- period of high/low input fishing effort
- migration of some fish





# VMS

- port sampling & trawling tracks data will enhance the accuracy of the resources assessment
- proposed spatial & temporal measures fit the marine ecosystem & response to trawling behaviours









## Project Progression

- ❖ not yet fully benefit: MCS, research
- ❖ Technical problems: General Packet Radio Service (GPRS) Global Service Mobile (GSM), limitation of signal transfer in the distanced area, signal interfere other electronics
- ❖ cost investment: from 2nd year, passing from DOF to fishers
- ❖ negative perception of fishers

# ongoing & required activities to fully implement the VMS

## technical analysis:

- cost/benefit
- effectiveness

## review of regulations

- existing regulations framework & enforcement
- authorised organisations

## stakeholder analysis

- questionnaire survey
- focus group discussion
- stakeholder hearing & consultation

## adaptive plan

- milestone/goal

# Regional & International Cooperations

- ❖ Thailand-Norway Cooperative Project: VMS monitoring of fishing activities
- ❖ VMS: Malaysia, Indonesia, India, Berma:  
If there are any channels of technical & knowledge sharing & assisting from these countries, it will benefit to VMS implementation & leads the development of marine resources assessment in Thailand