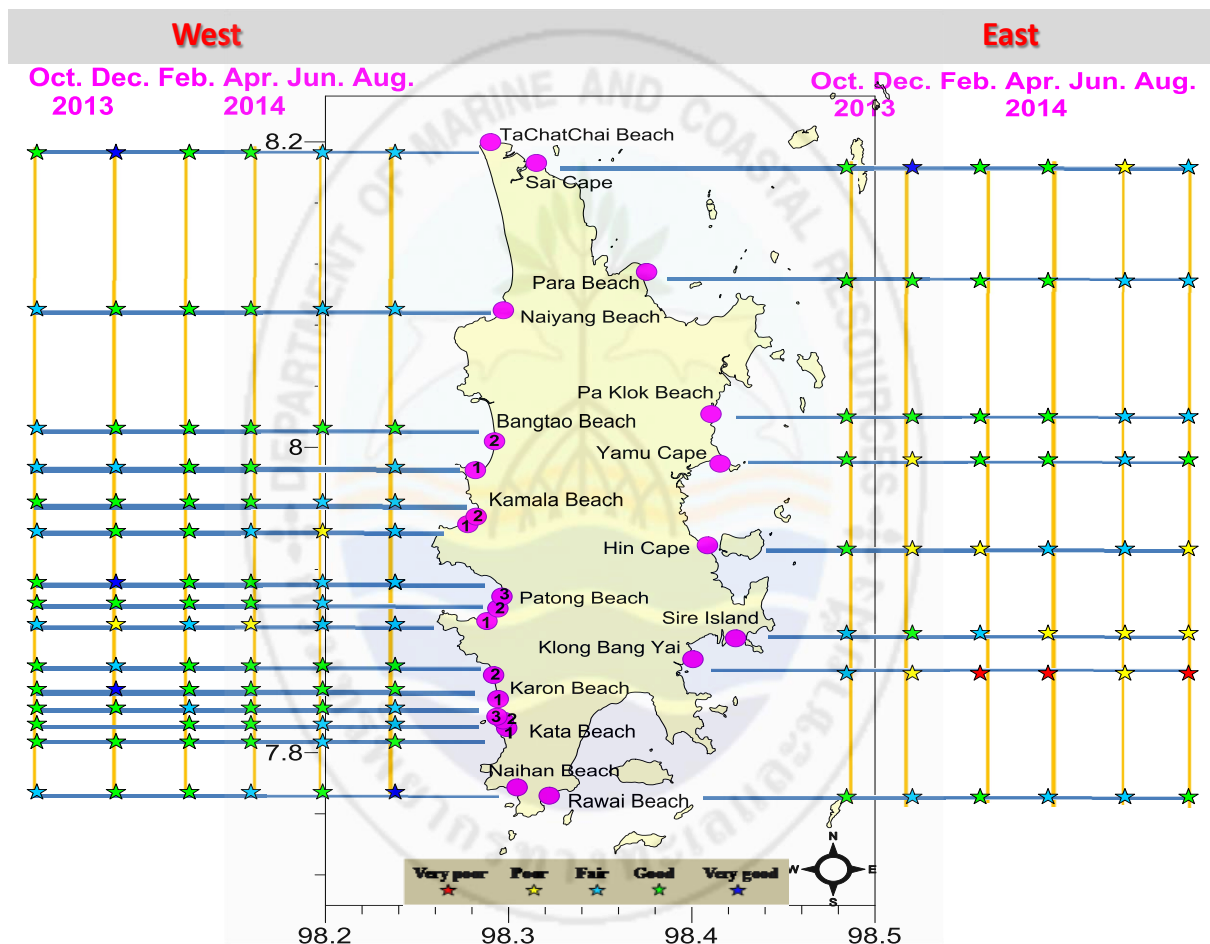


# Marine water quality along the coastline of Phuket in 2014

Phuket Marine Biological Center

Marine and Coastal Resources Research & Development Institute

Phuket Marine Biological Center has implemented a coastal environment monitoring program for 23 stations along the coastline of Phuket. Some principal parameters collected for every 2 months include salinity, temperature, pH, dissolve oxygen, suspended sediment, nutrients and total coliform bacteria. These parameters were analyzed and interpreted in terms of marine water quality indices.



Marine water quality was generally found in good and fair conditions respectively, except in some stations and during certain period of time that the quality was in poor or very poor conditions. Considering the seasonal variation, it is likely that the marine water quality in dry season (November-March) was better than wet season (April-October). Typical parameters downgraded water qualities in the area were the increasing in nutrients concentration, total coliform bacteria and suspended sediment, together with the decreasing in dissolve oxygen and pH. The problem was much higher in wet season due to the influence of the discharge water from land to the coastal area.