

# Cloud Based Marine Sensor Network at Racha Yai and Mook Islands, Thailand

Somchuea S., Jaroensutasinee K., and Jaroensutasinee M.

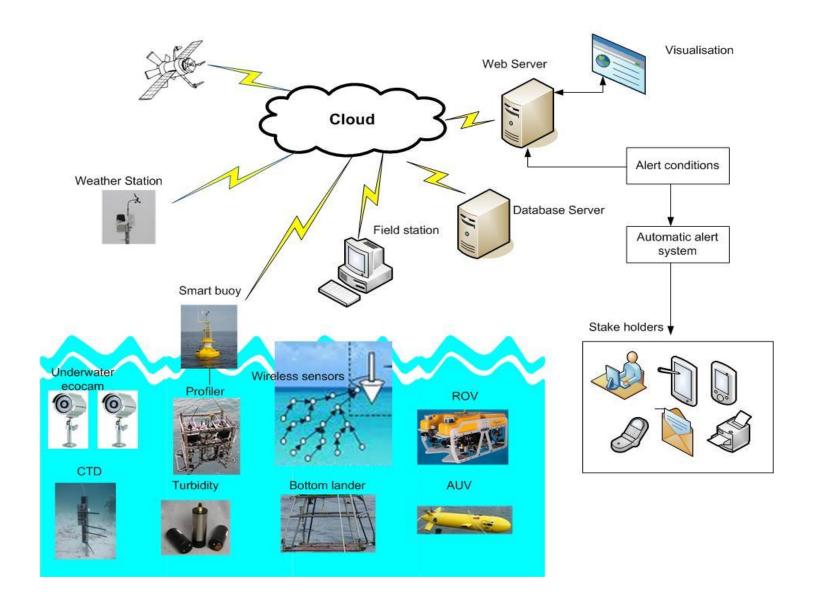
Center of Excellence for Ecoinformatics School of Science, Walailak University Nakhon Si Thammarat, Thailand

#### Introduction

- Marine ecosystems are of paramount important for various fields, such as tourism, environmental restoration, and protection.
- In order to manage these ecosystems, sensor data are needed, and their near real time synchronization (via cloud based technology) will generate on time measurements for local authorities to execute.



## Cloud based monitoring system

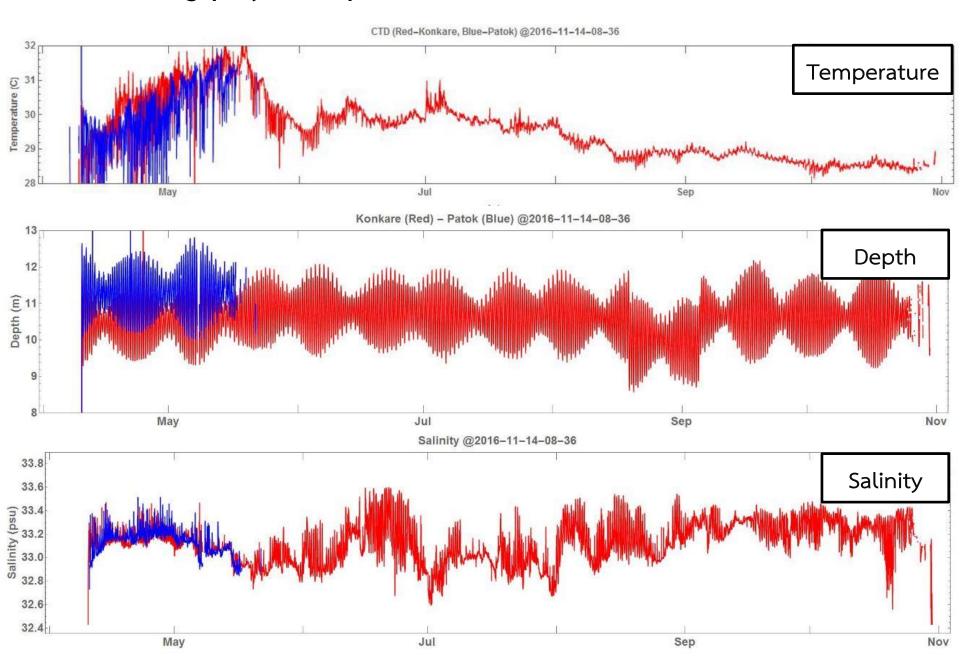


## Objectives

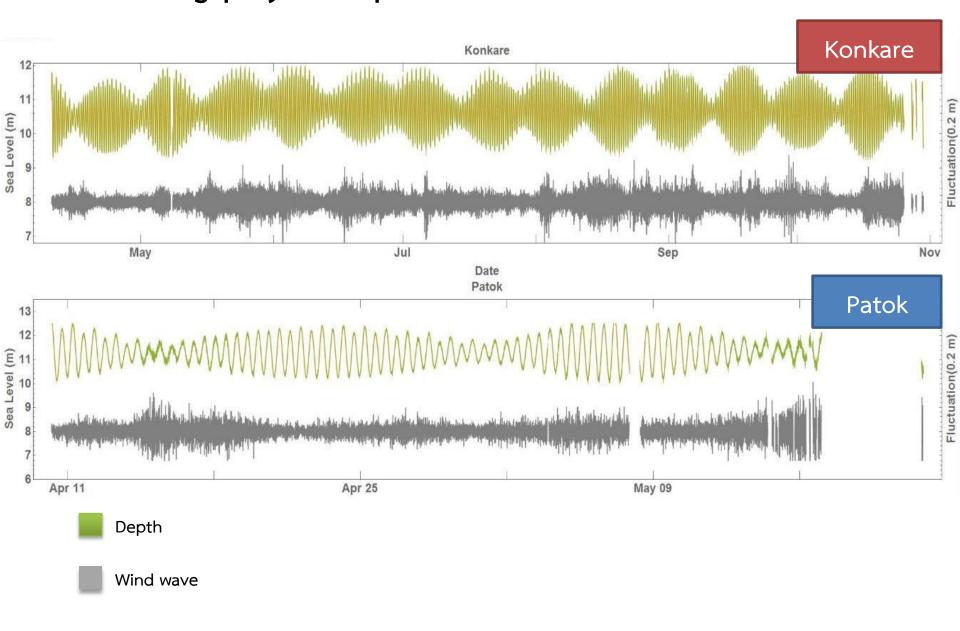
- To monitor physical parameters of sea water temperature, depth, and salinity.
- To analyze these data to find out the effects of climate change on sea grass beds, coral reefs, and reef fishes.
- To develop the system health monitoring for the sensors.



#### Monitoring physical parameters of sea water



### Monitoring physical parameters of sea water



Analyzing data to look for changing in patterns of sea depth, temperature

and conductivity. (Konkare)

