

GPS Based Cross Border Monitoring and Alert System For Fishing Boat

TECHNOLOGY DESCRIPTION

This technology is a system utilizing Garmin eTrex 20 GPS receiver to be located on the fishermen boat that will alert boats when they are close or beyond fishing borders.

TECHNOLOGY FEATURES

This software is designed as a monitoring system for fishing boats. The Garmin eTrex 20 GPS receiver is able to act as location reader by providing coordinates for the monitoring software demonstrated by Matlab. This system is accurate in locating fishing boats. The system complements current commercial GPS receiver systems by helping fishing boats to stay within fishing borders.

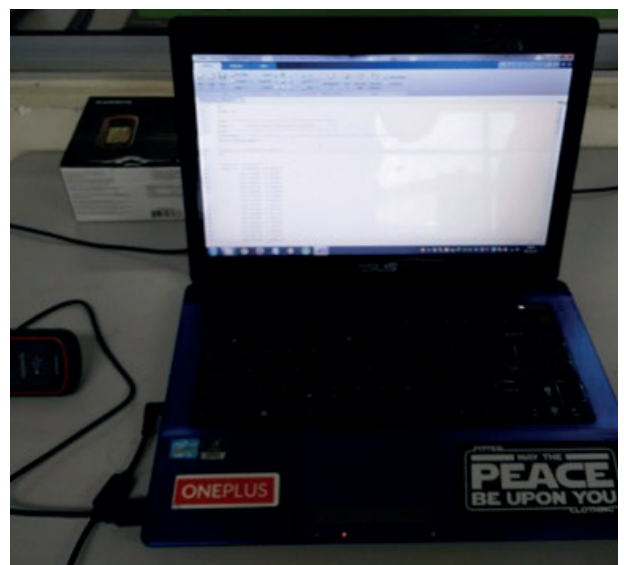
ADVANTAGES

- The software is compatible in normal computing system
- Accurate

INDUSTRY OVERVIEW

Prospect: Fisheries Industry, Fisheries Department

The fishery sector has for decades been playing an important role as a major supplier of animal protein to the Malaysian population. The fisheries are generally considered to consist of two major components, namely marine capture fisheries and aquaculture. Productions of marine fish captures from Malaysian waters are 1,482,899 metric ton which values at RM8.336 billion in the year 2013. The production decreased 1.67% in the year 2014. Although this is the case, marine fisheries production needs to be sustained, so that it can remain as one of the food sources for the country. The local fisheries sector and the fisheries department would be a potential customers of the cross border monitoring and alert system. The system which utilizes Garmin eTrex 20 GPS receiver and programmed to work as monitoring software would assist fishing boats to stay within fishing borders, in which current commercial system did not offer, plus additional features useful for fishermen.



Assoc. Prof. Dr. Alyani Ismail
Faculty of Engineering