**INTRODUCTION**

In most countries of the world, the flood caused large damage and involved it in significant amounts of loss to individuals and its properties. Even so, we can forecast rain or to track the path of the storm exactly from satellite image, the need to have real-time monitored data is important to make a rational decision on the actions needed to be taken and have good flood response operating system to manage all the movement of the floods.

Every year, it causes lives and damage to infrastructure, agricultural production and serious damage to local economic development. In recent years, high rates of removal, extensive area clearing, and communal forest intrusion, in addition to ineffective protection of cut-over forests, have accelerated the increasing need to address flood risk in the urban and even the rural region. *Due to the significant reduction of forests, peak floods can travel faster to generate higher risk within a short period of lead in populated areas. Problems also include heavy local rainfall, storms may result to typhoon and inadequate drainage, which is causing floods.* Where in this research study is made to track the map of the affected areas, to inform the individual user and they can manage their plan far from possible flood risk. Using this system, the user can view flood movement and status using brown color coding of the areas where high flood levels occur caused by heavy rainfall or result of natural disaster.

Many studies have been conducted on research and development of early mobile warning systems communication and information-based technologies. This is mobile communication technologies are well known devices and machines are growing rapidly in the industry and the global world. Previous research was developed using mobile based technologies such as floods monitoring systems and early warning based on SMS

Where in this research, it is necessary to design an Internet-based warning system are an early warning shows flood height information along with location of real-time flooding. The study was constructed using ultrasonic sensor as a water level detector and U-Blox GPS module as a flood coordinate location detector. Same water level data and location coordinates are processed by Arduino and transmitted through the GSM SIM900 module to SMS flood information station. The information is displayed as a map using data the height of the flood through the browser.