Abstract

    Act of determining process of flood alert level determined by several parameters such as fall of rain intensity and flow of flood that obtained by conversion of level of water interface. Level measurement of water interface could be done by reading the water level on automatic water level record (AWLR), while measurement of fall of rain could be done by reading the rain gauge. Both measurements must be involving human to record the results shown periodically.

    Recording process that involving human and time needed for data shipping process from measurement location to the office center could make the data cannot be spread fast, so the act of determining process of flood alert level being stagnant. This caused a necessity of system that could take data from measurement automatically while send them at a mean time.

    In this final project, a system that could read fall of rain value from the gauge while reading the water level from automatic water level record and shows them online using the internet network are made. This system is consist of water interface level measurement gauge that integrated on AWLR, fall of rain measurement gauge that integrated on rain gauge, embedded web server for data acquisition and interface to the internet network and a web server which is used to store data, and show them when it accessed by the client.

Keyword: fall of rain, automatic water level record, embedded web server