

ABSTRACT

Flooding is something we often hear these days in life everyday because the more dense population and increasingly dense settlement, causing the length of the absorption of water into the soil and losses suffered even more detrimental to people affected by flooding both material and non material so that required an increase in water detection for an information system that is acceptable to regulatory agencies and the continued flood of information to the public so it can know when they have to save themselves and each of their, so in this final project will be designed and realized an information system are able to provide the latest info about rising water levels due to the initial level of flooding is when the river water capacity be increased.

In the design and realization, this tool will be made by using high water level sensor using a microcontroller ATMEGA8535 accompanied by the converter IC MAX 232 and then continued with the RS232 data will then be forwarded to the server flood control agencies with the help of Mobile SIEMENS C55 as a receiver or transceiver so that will be receive by the flood watch with a display monitor with the help of GIS with software Visual Basic and formed into an application.

Early warning system detector with a display of water level GIS (geographic information system) is one alternative from various problems which might be expected to be the perfect solution to determine the current situation occurring in the mouth of the river so that we stand ready to cope with floods that often hurt us both materially and non-material.

Kata kunci :Mikrokontroller Atmega8535,GIS,IC MAX232,RS232,SIEMENS C55,Visual Basic