

ABSTRACT

The early flood warning system through radios is a system using radio's waves medium (with FM frequency) as a sender medium of flood signal. Radio's waves are viewed have so much advantages that are, further range, low noise, not crashed the wall, etc.

A sensor of water's level height will detected water on certain degree, this physical signal circumstance was converted by an electronic tool become an electric signal for driving the generator of frequency. The frequency's generator was built with the frequency's cycle that had variety like a tone by a flip-flop census taker. To distinguish water level degree with a frequency would be transferred was selected by a programmed switch. Data packet including a tone was modulated, then sent through a FM broadcasting station.

Through air medium electromagnetic waves signal were received with a FM receiver antenna, the transferred signal including a tone was demodulated within the FM receiver. These tone's signal has small amplitude, so they need to be strengthened by a audio amplifier. The output result was an audio signal, for every water level has delay times of tone in different degree.