

# A MODEL OF TSUNAMI WARNING SYSTEM

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## ABSTRACT

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Tsunami is one of the natural disasters that can be extremely destructive. Many researches, scientists or engineers, day by day try to find out the best way to prevent or reduce the destruction of Tsunami. Tsunami Warning System is one of the useful systems that give warning to public when Tsunami occurs in order to reduce casualty.

The aim of this report was to discuss about the project of building a model of Tsunami Warning System. Basically the model of Tsunami Warning System is based on measuring the water level with variable resistor on buoy systems. The real time data will be sent to earth station via satellite model and earth station will analyze those data then send warning to public when necessary. RF module was use as the communication devices between buoys, satellite model and earth station in this project.

The overview of Tsunami and few case studies about Tsunami events will be discussed after the introduction. In the later chapter, the system design of the model of Tsunami Warning System will be discussed in details. Results analysis of this project will also be included. Finally, the recommendation for future development of the system will be discussed at the end of this thesis.

**KEYWORDS: Tsunami, Buoy System, Satellite Model, Earth Station, RF Module.**