

ABSTRACT

The GAMA I Synthetic Unit Hydrograph, GAMA II Synthetic Hydrograph and Mock models have been developed in Indonesia, especially in Java Island, because they are suitable for the local condition. In order to be easier to be used by the users and to avoid errors in procedure, model ambiguity, as well as to accelerate the analysis process, appropriate software is required.

The software is composed of program package that consists of various programs of hydrological analysis. These programs can be used for determining the design values, which are the design flood and water availability. This software combines the Frequency Analysis, the GAMA I Synthetic Unit Hydrograph Model, the GAMA II Synthetic Hydrograph Model, and the Mock Model, called the Havara T-01 program package. This program is developed based on a series of flowchart and composed into an application program package using the Delphi 5.0 programming language.

The users can easily understand the Havara T-10, especially because it is supported with a quite communicative display, making it easier to do the analysis. Several improvements to the previous version can be well done. Also, the model description can be easily understood because it is completed with link file (*help*) and program manual.

Key words: Hydrologic model, Engineering software, Hydrological analysis