

The regional characteristics in precipitation-water level response of the rivers in Chiba Prefecture

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Chiba Prefecture, Japan, opened the web page that inform local residents of real-time precipitation and water level data called WINC2(Weather Information Chiba 2). The system shows the information of last eight hours, however, the data are accumulated after the launch of the system. From these data, local characteristics of precipitation and water level response of the region. Such a information is valuable for refuge action for residents by knowing characteristics of water level changes.

We try to extract local characteristics of rain-water level responses by using WINC2 data. Total times which exceed the danger level of a river, and precaution rainfall intensity are calculated for each station, and plotted on the map. These distribution is not the uniform, and it denotes there are individual causes.

The rain-water level hydrographs are created for all the stations and characteristics are interpreted by the inspection. The response of some stations can be explained by geomotphology, geology, and landcover, but others are not. This means the individual survey is necessary to understand the local characteristics. This fact, however, is important for local residents to mitigate flood hazard. We intend to try to develop a information system that express the characteristics of rain-water level response in the region.