A process to make animation of Tsunami simulation

Shizuoka University

Need data to make animation

(1) Earthquake source model

  Source location, Source geometry and fault model.

(2) Submarine topographic data

    Central Disaster Prevention Council estimates damage prediction by Tokai, Tonankai, Nankai earthquakes. Thus we use these data.
<Inquiry: Cabinet Office for Disaster Management TEL: 03-5253-2111 (representative) an extension number: 51406, FAX: 03-3501-5199>
URL: http://www.bousai.go.jp/jishin/chubou/tokai/datakoukai/index.html

(3) Detailed land topographic data

    Recently, Ministry of Land, Infrastructure, Transport and Tourism are collecting topographic data for laser profiler to use plane.

    These data are very useful to estimate Tsunami moving on land, because of these data measured by high resolution, 2 metre meshes.
These data are capable of provided by each River Office of Ministry of Land, Infrastructure, Transport and Tourism, if you use education.

(4) Data for structure along the seaside

    We can be provided data for structure along the seaside from Port Manager.

(5) Program of Tsunami simulation

    We can use software developed by Disaster Control Research Center, Graduate school of Engineering, Tohoku University.

(6) Aerial photographic data

We can make more realistic image, represent result of Tsunami simulation on aerial photograph. Many municipalities are having high-resolution aerial photograph for land management. Ortho revision digital data is easy to estimate position and to correct image. Therefore aerial photograph can overlap to result of simulation.

These data are capable of provided by Property Management Office at each City or Town.

Another

(A) corporation to perform simulation

Some corporations in Shizuoka interests in Tsunami simulation. These corporations know local topography and structure well. Thus, we hope for cooperation to make realistic animation. Request to company in Tokyo that simulated in past is one way. But it is not lack to cooperation by local corporations for accept to local information.

(B) The existing animation

Iwate prefecture and Wakayama prefecture exhibit animation on the website. These animation are used for education for disaster prevention.