

## **Cartographic visualization and depiction of typical terrain features in Japan using a 10m DEM –from 'GIS Next Magazine'**

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<http://www.nextpb.com/gisnext/>

A series of articles entitled 'CHIKAI KIKOU' (terrain features) is being published in the quarterly magazine 'GIS NEXT.' Starting with Issue No.21 (October 2007) these articles will examine typical terrain features found in Japan using cartographic and visualization techniques based on a 10 meter resolution digital elevation model (DEM) created by Hokkaido Chizu Co., Ltd. Each article highlights a specific terrain feature using a bird's-eye view, along with some local photographs, a topographic map, and a cross section view of the feature. The bird's-eye view is designed to more easily depict the detailed topography of the specific terrain feature by overlapping overground openness through the use of color relief shading and the overlay of cartographic features on to the 10 meter DEM. It is the intent of the authors to uniquely, yet accurately portray the topographic feature, and in doing so, convey the depth of expression shown in the topographic map. It is hoped such new maps will be used as a reference for science education at the junior and senior high school levels.