

CARTOGRAPHIC FEATURE EDUCATION IN SCHOOLS USING GIS AND MULTIMEDIA TECHNOLOGIES

Hiroshi Ota

Department of Geography, KEIO Futsubu School, KEIO University

1-25-1 Hiyoshi-honcho, Kohoku, Yokohama, 2230062

Phone: +81 45 562 1181

Fax: +81 45 562 8279

e-mail: ohta@kf.keio.ac.jp

Recently GIS (Geographical Information System) has been developed rapidly in universities and administration agencies. Even in daily life, IT (Information Technology) such as internet communication and mobile cellular phone are very popular communication tools for people. By the year of 2002, 100% of School Class Room in Japan are connected by the internet. And personal computer will be much individual and essential study tool for student. But the cost of GIS is still relatively expensive for students. However, still it remains difficulties to handle a computer and digital space data. In this report, we have customized easy use GIS, which is named "First GIS" software. It was developed by GSI (Geographical Survey Institute of Japan) and IBM Japan Cooperation. Thus GIS software is reasonable price and easy to handling the most GIS digital data, even by GIS beginners and School Student. Data of GIS are Digital Land Data (Japan Map Center), "Digital Map 2500" (GSI), and digital Air-photo (Ortho-photomap format). Using First GIS and other layer data, we can perform overlap analysis and pre-field study assessment work in classroom. We also have developed the school use educational GIS software which is named "GIS Note" by JACIC (Japan Construction Information Center) and Keio University. This GIS system also extend field mobile GIS pad for filed survey. In this report, we will introduce some sample GIS educational materials and evaluation at Tokyo Metropolitan area, Yokohama City and Kanagawa Prefecture cases and how useful method to get Geographical knowledge for students through multi-media computer presentation. These visual and cartographic digital maps and digital pictures are much useful for classroom in Geography Education than conventional ones.