This geographic information service integrates various types of contents, including the B-8 Gazetteer of Geographical Names of Undersea Features, web cartoons, and games in order to promote the public understanding and awareness of GEBCO activities and ocean topography across the world.

KHOA is currently developing a globe and an associated application which allocate a cell positional information to the GEBCO World Map globe and allow it to be recognized by smart phone cameras with the 80% or above optimized recognition rate and speed. (To be completed by December 2013)

### I. Map Recognition Technology

- **Map Recognition Technology**
  - Limits of marker-based image recognition
    - Overlaps in images on QR code or frame marker based maps
  - Map recognition technology using the extraction of natural features
    - Recognizes feature points on the map and compares these feature points with those in similar areas
  - Optimization Goals
    - Recognition rate of 80% or above, recognition speed of 5 seconds or less in a WiFi zone

### II. Development Methodology and Contents

- **Feature Point Tracking Test using GEBCO World Map**
  
  An area containing the specific latitude and longitude in which a user is interested on the globe is defined as a cell. A cell is the minimum unit that a smart phone can recognize as an image. Each cell is allocated with a position ID.

### III. Services

- Popularity (To increase the public interest through the use of smart phones)
- Convenience (To allow access to a wide range of information anywhere in the world via the globe)
- Expandability (To provide real-time updates of various contents in the future)