

The Construction of the Digital Gazetteer based on Humanities GIS and the Analysis of Characteristic

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Historical digital gazetteer is essential tool for humanities GIS data organization. Therefore, we developed the database for the index of *Dainihon Chimeijisho (The Dictionary of Place Names in Greater Japan)* edited by Togo Yoshida in 1900 (Meiji 30). The *Dainihon Chimeijisho (The Dictionary of Place Names in Greater Japan)* provides the detail explanation of the historical investigation and change of place names such as country names, county names, names of mountains, rivers, lakes and harbors. Its first edition was published in 1900. The index contains 53,956 place names in *kanji* and *kana*.

Also, the database for the Japanese Historical Gazetteer digitized by providing *kanji* and *kana* readings of place names, Romanization of place names, geographical relations of countries, counties, towns and villages, the relations with the current cities, towns, and villages, and latitude and longitude, based on the index of *Dainihon Chimeijisho*.

Furthermore, we merged *Shikinaiisya* (Shrines registered with Jinmyocho of Engishiki, 2,842 shrines) and *Jiinn* (Japanese Temple name, 78,588 temples) with *Dainihon Chimeijisho*. In addition to those data, we are planning to merge villages (65,210) described in *Kyuryo-Kyuko Torishirabecho* (the official document concerning the production volume of rice of each village in each feudal clan in the end of the Edo period and it was completed in around 1877)

Finally, in Japanese place-name, there are various designs with respect to both the mark and the pronunciation. In addition, they can be divided in detail by the mark, the pronunciation, and the genus, etc. besides the prefix and the suffix depending on the Chinese character. And, the unit of extracted words and phrases is called "Name of a place morpheme". We did work to extract them from "The Dictionary of Place Names in Greater Japan". And then, we would like to present the possibility of the data base by trying the analysis from various angles of the classification etc. done by frequency, the edge, and the concept.