Digital Gazetteer Development

Ruth Mostern

Electronic Cultural Atlas Initiative

What is a digital gazetteer?

- **A gazetteer** is a structured dictionary of geographical places.
- The essential attributes of a digital gazetteer entry are: geographic name, spatial footprint, and feature type.
- It may also include information about hierarchical relationships between places, the dates that a place existed, or other features.

L. Hill, "Core Elements of Digital Gazetteers: Placenames, Categories, and Footprints," available at www.alexandria.ucsb.edu/~lhill/paper_drafts/ECDL2000_papeerdraft7.pdf

A gazetteer is not a GIS…

- It is more…
- Structured information about places includes
  - Variant names in different languages
  - Place name types
  - Descriptions of relationships among places
  - Links to related sources of information
  - Etymology
- …and less…
- Spatial information may be rudimentary and overlapping

…but gazetteers and gazetteer services can work with GIS and other projects to:

- Reference information about places

- Deposit information about fuzzy places ("the silk road")

- Point to alternate versions of names within a single gazetteer (from different scholars, at different times, based on different versions of political reality, in different languages)

- Point to distributed texts and other resources about places

- Allow for searching multiple gazetteers through a clearinghouse

- *The ECAI/ASCC gazetteer service project hopes to register both "simple" and "standards compliant" gazetteers for maximum interoperable searching.*

The ECAI/ASCC gazetteer project extends existing gazetteers by:

- Establishing a multilingual environment
- Establishing standards for global, historical, culture-centered gazetteers and feature type thesauri
- Establishing service protocols for searching multiple gazetteers
- Creating a service for map visualization based on toponym-rich text or other resources

Some existing gazetteer projects

- Alexandria Digital Library
  www.alexandria.ucsb.edu/gazetteer

- Getty Thesaurus of Geographical Names
  www.getty.edu/research/tools/vocabulary/tgn/)

- Taiwan Gazetteer

  tgnis.ascc.net

- German Space Operations Center

  www.heavens-above.com/countries.asp

Major sections of the ADL feature type standard

- Geographic feature ID
- Geographic name
- Variant geographic name
- Type of geographic feature
- Other classification terms
- Geographic feature code
- Spatial location
- Street address
- Related feature
- Description
- Geographic Feature data
- Link to related source of information
- Supplemental note
- Metadata information
- *Time is not a field; it is embedded in many other fields*

ess | http://fat-albert.alexandria.ucsb.edu:8827/gazetteer/

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Alexandria Digital Library Gazetteer Server

L **Gazetteer Help Information** (07/03/2001)

s version of the ADL Gazetteer is based on the ADL Gazetteer Content Standard. rently it contains: data from the NIMA Gazetteer, a set of countries and U.S. counties, of U.S. topographic map quadrangle footprints, set of volcanoes, and set of earthquake centers. The GNIS data from the U.S. Geological Survey has been partly added to the ection. As of today, there are approximately 4.4 million entries. For the full description, the ADL Gazetteer Collection metadata.

the full functionality of the interface, you must use the Internet Explorer web browser Netscape version 6 to see the roll-over information from the search result listing.
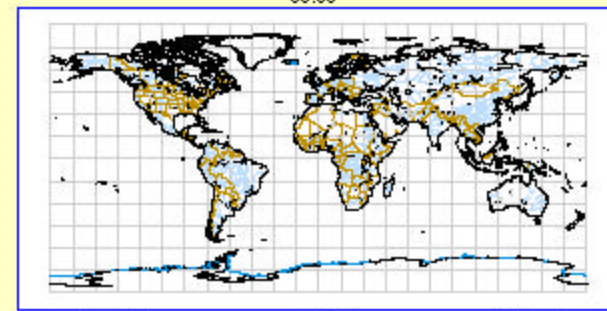
e the interface is still in the process of development, it would be a good idea to use the

TE

- This interface has been developed and tested using Internet Explorer 5. The interface can also be used with Netscape Communicator 4.6.1 or higher. We noticed that one minor feature for search result display is not supported by the current Netscape Communicator 4.6.1 release. For complete functions, please use the Microsoft Internet Explorer.
- If you have any problems using this interface, please send email. To help us to identify the problem, we would like to have the description of the problem, name and version of your WEB browser, machine and operating system.
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t modification: February 21, 2000

Click on the map to recenter
90.00°

Zoom In

Zoom Out

Reset Map

Please set at least one search condition.

Location: ○ within map ○ overlaps map ⦿ anywhere

Place Name: | has all words ▾ | | |

Feature Type: (*Feature Type Thesaurus*)

| —Any Type— (4,437,404) |
| administrative areas (2,131,883) |
| agricultural sites (191,153) |
| airport features (24,818) |
| alluvial fans (66) |
| amusement parks (18) |
| anticlines (4) |
| aqueducts (103) |
| archaeological sites (1,732) |
| arches (natural formation) (446) |

Search

Reset

Identification Code: | is equal to ▾ | | |

Help

Send your comment to ADL Development

Alexandria Digital Library Gazetteer Server

3284. Shanghai Shan, islands
3285. Shanghai Shi, countries, 1st order divisions
3286. Shanghai Xian, countries, 2nd order divisions
3293. Shanghai, populated places
0407. Xinzhuang, populated places
3617. Shanghai, populated places
5288. Sanghae-ri, populated places
0866. Getah Senawang Bahagian Shanghai Seremban, Ladang, land parcels
5197. Shanghai Pahang Estate, land parcels
1274. Shanghai, agricultural sites
1584. Shanghai, agricultural sites

TE

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Click on the map to recenter
90.00°

Zoom In

Zoom Out

Reset Map

Please set at least one search condition.

Location: ○ within map ○ overlaps map ● anywhere

Place Name: | has all words ▾ | shanghai

Feature Type: (*Feature Type Thesaurus*)

| −Any Type− (4,437,404) |
| administrative areas (2,131,883) |
| agricultural sites (191,153) |
| airport features (24,818) |
| alluvial fans (66) |
| amusement parks (18) |
| anticlines (4) |
| aqueducts (103) |
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Search

Reset

Identification Code: | is equal to ▾ |

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Alexandria Digital Library Gazetteer Server

rch Result: *(1 - 20) of 48 matches.*

3284. Shanghai Shan, islands
3285. Shanghai Shi, countries, 1st order divisions
3286. Shanghai Xian, countries, 2nd order divisions
3293. Shanghai, populated places
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1274. Shanghai, agricultural sites
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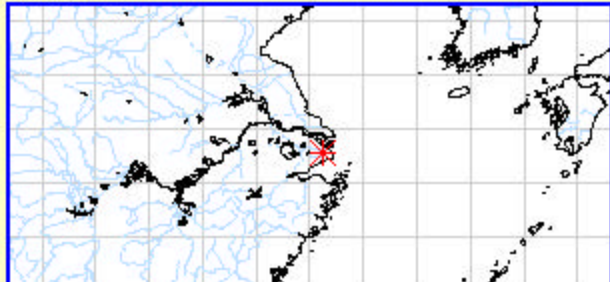
Gazetteer Record Report
Alexandria Digital Library

ture Name
  Geographic Name: Shanghai (BGN-NIMA-1)
  Variant Name: Shang-hai-shih (BGN-NIMA-1)

ture Type
  ADL Feature Type Thesaurus: populated places
  NIMA Feature Designation: PPL (populated place)

tial Reference

Click on the map to recenter
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Zoom In

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Reset Map

Please set at least one search condition.

Location: ○ within map ○ overlaps map ⊙ anywhere

Place Name: | has all words ▾ | shanghai

Feature Type: (*Feature Type Thesaurus*)

| —Any Type— (4,437,404) |
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Alexandria Digital Library Gazetteer Server

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3284. Shanghai Shan, islands
3285. Shanghai Shi, countries, 1st order divisions
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)407. Xinzhuang, populated places
3617. Shanghai, populated places
5288. Sanghae-ri, populated places
)866. Getah Senawang Bahagian Shanghai Seremban, Ladang, land parcels
5197. Shanghai Pahang Estate, land parcels
1274. Shanghai, agricultural sites
)584. Shanghai, agricultural sites

Geometry Type: Point (BGN-NIMA-1)

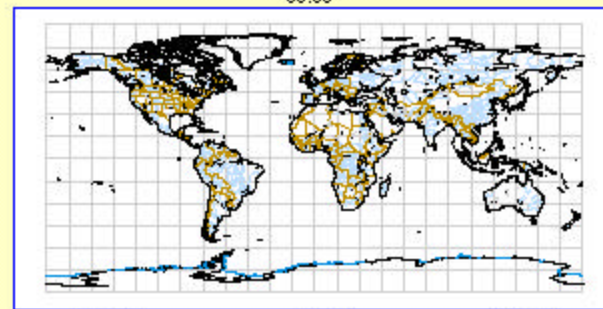- Longitude: 121.458054 (121°27'28"E)
- Latitude: 31.222221 (31°13'19"N)

ntification Code
  ADL Feature ID: 1628293

ated Information
  Related Entity (BGN-NIMA-1)
    IsPartOf: UTM grid UQ55

  Related Entity (BGN-NIMA-1)
    IsPartOf: JOG Sheet Number NH51-0

  Related Entity (BGN-NIMA-1)
    IsPartOf: China

Click on the map to recenter
90.00°

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Reset Map

Please set at least one search condition.

Location: ○ within map ○ overlaps map ⦿ anywhere

Place Name: | has all words ▾ | | shanghai |

Feature Type: (*Feature Type Thesaurus*)

| —Any Type— (4,437,404) |
| administrative areas (2,131,883) |
| agricultural sites (191,153) |
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Alexandria Digital Library Gazetteer Server

rch Result: *(1 - 20) of 48 matches.*
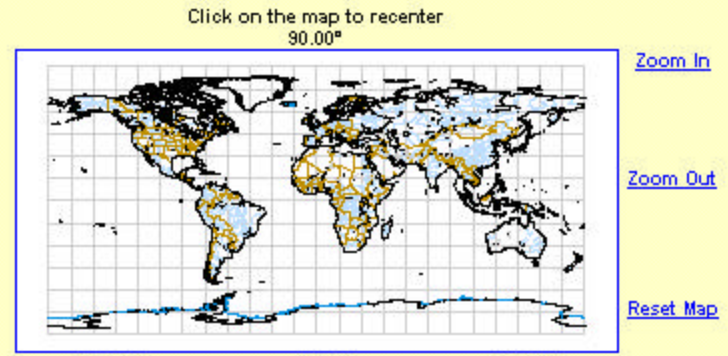
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5197. Shanghai Pahang Estate, land parcels
1274. Shanghai, agricultural sites
1584. Shanghai, agricultural sites

IsPartOf: Shanghai

Link to Related Information
Yahoo("Shanghai")

rce
Source: BGN-NIMA-1
Organization: U.S. Board on Geographic Names (BGN), U.S. National Imagery and Mapping Agency (NIMA)
URL: GEOnet Names Server
Contact Person: NIMA Geographer, D-56
Address: 4600 Sangamore Road, Bethesda, Maryland 20816-5003, USA
Information Source:
- *Title:* Digital Interim Geographic Names Data (CDROM)
- *Author:* U.S. National Imagery and Mapping Agency (NIMA)
- *Series:* GAZGN, DIGNAMES
- *Edition:* 002
- *Publisher:* U.S. National Imagery and Mapping Agency (NIMA)
- *Publication Date:* August 1997
- *Source ID:* NSN: 7644014174141

tp://search.yahoo.com/bin/search?p="Shanghai"

Click on the map to recenter
90.00°

Zoom In

Zoom Out

Reset Map

Please set at least one search condition.

Location: ○ within map   ○ overlaps map   ● anywhere

Place Name: | has all words ▾ | shanghai |

Feature Type: (*Feature Type Thesaurus*)

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Research

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Research Tools / Vocabulary Databases

Getty Thesaurus of Geographic Names

Browse the World

Find: [   ]

Enter one keyword, e.g., **carlsbad** ; or full name, e.g., **los angeles**

[Search]   [Clear]   [Pop-up Search Window]

Version 2.0-Web. Data accessed by the "browser" is updated monthly.
You may also search the AAT and the ULAN

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F.A.Q about the TGN
Here you will find a list of the most frequently asked questions about the

New
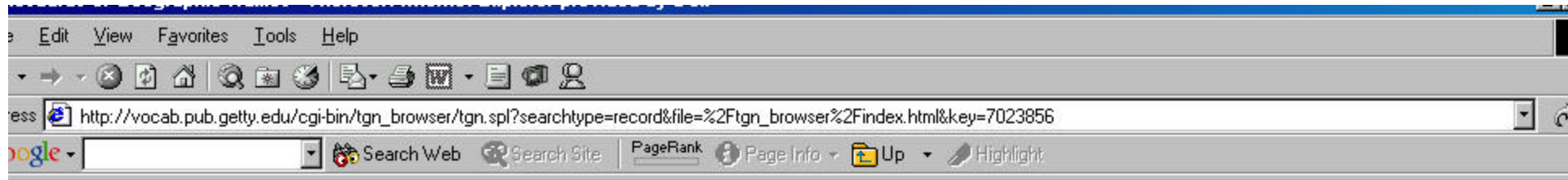earch   GETTY VOCABULARY PROGRAM
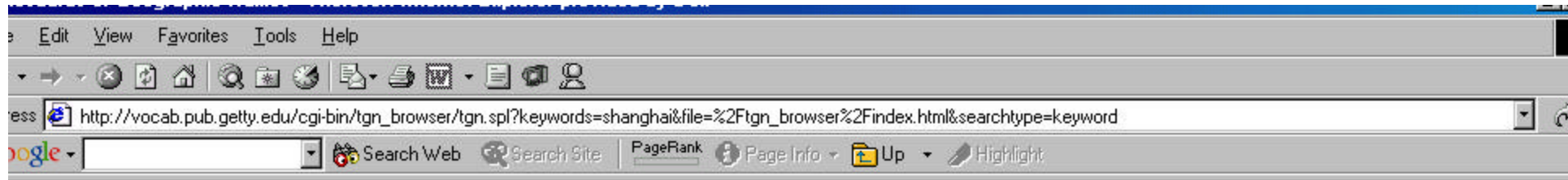
rched for: **shanghai**

[View Place Records]   [Clear All]   **(Click icons (🔲) below to view hierarchy for place; use checkboxes to view multiple place records.)**

nd 32 places that match your search.

. ☐ 🔲 **Coon Creek**......................(creek)
        (N & C Am., USA, Missouri, Johnson)[2254387]
        Shanghai Creek

. ☐ 🔲 **Cornelia**......................(inhabited place)
        (N & C Am., USA, Missouri, Johnson)[2058436]
        Shanghai

. ☐ 🔲 **Miles Point**......................(inhabited place)
        (N & C Am., USA, Missouri, Carroll)[2511676]
        Shanghai

. ☐ 🔲 **Shanghai**......................(inhabited place)
        (Asia, Zhonghua, Shanghai Shi)[7023856]

. ☐ 🔲 **Shanghai**......................(inhabited place)
        (N & C Am., USA, Alabama, Limestone)[2005267]

. ☐ 🔲 **Shanghai**......................(inhabited place)
        (N & C Am., USA, Indiana, Howard)[2655047]

. ☐ 🔲 **Shanghai**......................(inhabited place)
        (N & C Am., USA, Missouri, Vernon)[2655048]

. ☐ 🔲 **Shanghai**......................(inhabited place)
        (N & C Am., USA, North Carolina, Cleveland)[2655049]

☐ 🔲 **Shanghai**

New
earch

GETTY VOCABULARY PROGRAM

Place Records

3856]

Shanghai (inhabited place)

: **31 06 N** Long: **121 22 E** *(represented in degrees minutes direction)*
: **31.100** Long: **121.367** *(represented in decimal degress and fractions of degrees)*

e - Largest city in China; prospered after 1840; one of first five treaty ports; attacked by Japanese 1932; scene of severe fighting during Japanese-Chinese War 1937; controlled
apanese 1941; restored to China 1945; taken by Communists 1949.

archical Position:

☐ 📄 **Asia**..............................(continent)
 ☐ 📄 **Zhonghua**........................(nation)
  ☐ 📄 **Shanghai Shi**....................(municipality)

nes:

  Shanghai (C,V)
  Shang-hai (C,V)
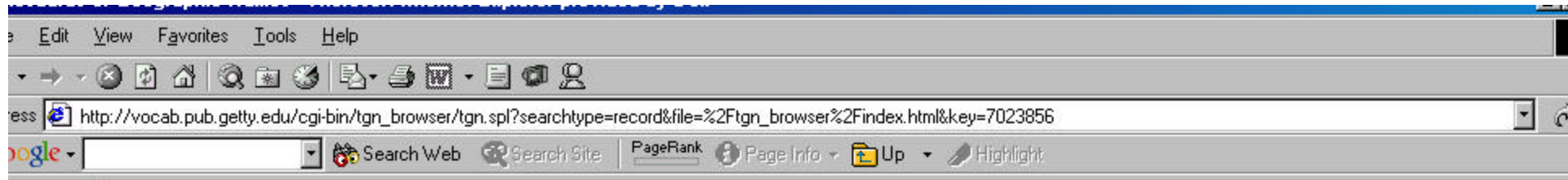
☐ 📄 **Shanghai Shi**.....................(municipality)

...es:

Shanghai (C,V)
Shang-hai (C,V)
Schanghai (C,V)
Chang-hai (C,V)

..e Types:

inhabited place (C)
city (C)
regional capital (C)
commercial center (C)
industrial center (C)
port (C)............................. opened 1842
educational center (C)
treaty port (C)

..ces:

Chang-hai.............................. Rand McNally Atlas (Reprinted 1994), I-33 [VP]

Schanghai.............................. Rand McNally Atlas (Reprinted 1994), I-157 [VP]

Shang-hai.............................. Webster's Geographical Dictionary (1984), 1104
                                                         [VP]

Shanghai.............................. Petit Robert II, Noms (1989) [BHA]
                                                 NIMA, GEOnet Names Server (1996) [VP]
                                                 Times Atlas of the World (1985) [BHA]
                                                 Cambridge World Gazetteer (1988) [BHA]
                                                 Times Atlas of the World (1994), 181 [VP]
                                                 Columbia Lippincott Gazetteer (1961) [BHA]

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http://vocab.pub.getty.edu/cgi-bin/tgn_browser/tgn.spl?key=1000958&searchtype=record&file=/tgn_browser/index.html

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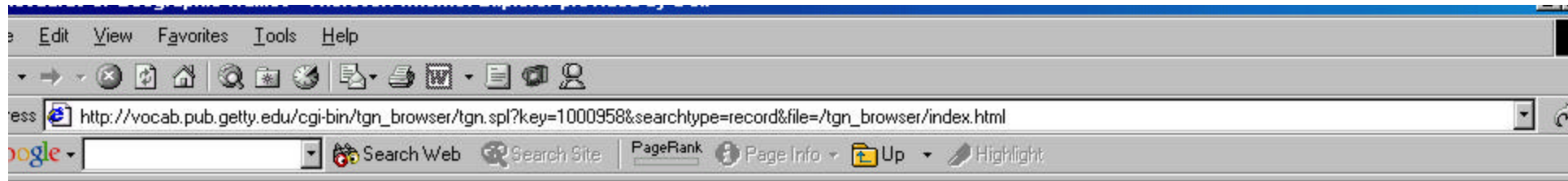
0958]

Shanghai Shi (municipality)

: **31 14 N** Long: **121 28 E** *(represented in degrees minutes direction)*
: **31.233** Long: **121.467** *(represented in decimal degress and fractions of degrees)*

rarchical Position:

⬜ 📄 **Asia**...........................(continent)
  ⬜ 📄 **Zhonghua**........................(nation)

nes:

Shanghai Shi (C,V)
Shang-hai Shih (C,V)
Shanghai (C,V)

e Types:

municipality (C)
first level subdivision (C)

ces:

Shang-hai Shih.......................... NIMA, GEOnet Names Server (1996) [VP]

Shanghai.............................. Britannica Book of the Year (1990), 589 [VP]

Shanghai Shi.......................... NIMA, GEOnet Names Server (1996) [VP]

Taiwan Gazetteer

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地名查詢系統建置計畫

計畫簡介

地名資料庫

地名普查手冊

地名查詢系統

計畫會議

相關文件

計畫背景資訊

- 委託單位：內政部
- 執行單位：中研院歷史語言研究所 及 中研院計算中心
- 計畫主持人:中研院史語所　范毅軍 副研究員 及 中研院計算中心　林誠謙 主任
- 計畫執行時程：2000.07.27~2001.3.27
- 計畫聯絡人:中研院計算中心 資訊人員 廖泫銘
- 聯絡電話:TEL (02)2789-8012 / FAX (02)2783-6444
- 網頁製作:中研院計算中心GIS小組

主要進行中工作

- 本計畫之期末審查會。

最新消息

- 臺灣地區地名查詢建置計畫期末報告書。
- 地名普查工作手冊。
- 臺北縣汐止地區地名座談會
- 地名學術語詞匯(簡體字)
- A Manual for Field Collection of Geographical Name (12.5Mb)
- 完成 陳國章 教授《臺灣地名辭典》建檔。
- 基本地形圖資料庫地形資料編碼表(89/10/31)
- 地名普查手冊座談會(89/10/18)
- 文史工作者 黃文博 先生訪談記錄(89/10/7)
- 中研院調查工作室訪談記錄。(89/10/2)
- 加拿大地名普查手冊翻譯文稿完成。

ASCC
ADEMIA Sinica
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中央研究院計算中心
臺灣地區地名查詢系統

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劃簡介 | 系統架構 | 操作說明 | 地名資料庫說明 | 地名普查 | 地名相關網頁 | 與我們聯絡 | 關於...   中央研究院 | 內政部地政

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北市 ▾   查詢

Error :
Map server not available

詢地名】
            查詢

治時代地名查詢】   🏠 台灣堡圖

    : [   ]
大稻埕,舊庄,南港...等輸入關鍵字即可)

里堡廳 : [   ]
臺北廳,芝蘭一堡,大加蚋...等輸入關鍵字即可)

        查詢   重新設定

Internet

Next steps

- Content standard development and validation
- Multilingual testbed construction
- Gazetteer registration in ECAI metadata clearinghouse
- Feature type thesaurus extensions
- Tools for linking gazetteers to text and image databases