Digital Silk Roads: Sea Route in Southeast and East Asia

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Contents

• Digital Silk Roads (DSR) Project and Nara Symposium for Digital Silk Roads (The second NII International Symposium)

• DSR Project in The CSEAS, Kyoto Univ. Serving Southeast Asia Topographic Atlas on The Web

• Sea Routes on Commodity Trading between Southeast Asia and Japan
Digital Silk Roads (DSR) Project

- The Digital Silk Roads (DSR) Project is a joint effort to pass on the heritage of the Silk Roads to future generations as a common asset of mankind by fully utilizing advanced information technology.

- Organized by UNESCO and the National Institute of Informatics (NII)

Web Site: http://www.nii.ac.jp/dsrnara/
E-mail: dsrnara@nii.ac.jp
Nara Symposium for DSR

• The second NII International Symposium
• December 10 - 12, 2003
At Nara-ken New Public Hall

• Topics
  – 1. Research on Silk Roads in cultural fields
  – 2. Research on digital technology
  – 3. Interdisciplinary research that links cultural studies and digital technology
  – 4. Research and case studies on digital capacity building for culture
Serving Southeast Asia
Topographic Atlas on The Web

Objective
Distributed Online Atlas To Promote Data Share Among Univ and Institutes.

Atlas Coverage
- Laos: 109 sheets, 1980-1986, 1:100,000
- Myanmar: 1,700 sheets, 1944, 1:50,000
- Cambodia: 289 sheets, 1979, 1:50,000
- Thailand: 200 sheets, provided by OCU
Atlas Basic Functions

Online Topographic Map Index

Background:

Vmap0 (Formerly known as Digital Chart of the World)

Foreground:

Topographic Map Index

Retrieval Based on Z39.50 Standard

Collaborating geodata databases to the Z39.50 compliant gateway
Geo-Collection Map Index
Metadata Browsing

Query Results

**QUERY PARAM**
- BROWSE WINDOW: 96.660000 15.660000 105.660000 24.660000
- QUERY LOCATION: 102.636000, 17.694000

**LAOS TOPO MAP 1:100,000**
- SHEET_NO: 5544
- TITLE: Vieng Chan
- TYPE: Topographic Map
- PUBLISH DATE: 1982-01
- PUBLISHER: Mapping Department, VN army
- REGION: ("Vieng Chan", Laos)
- SCALE: 1:100000 0000000000
- SHELF: C-56

Query Map Display

[Image of map display]
Raw Collection Browsing
Sea Routes in Commodity Trading

- 17C : Shuin-sen Route
- 14-16C : Ryukyu Route
Ryukyu Diplomatic Document “Rekidai Hoan” 1424-1867

• Sending/Receiving Documents 270 Vols.
• Thailand – Ryukyu Relations 1425-
  – “Chuzan-oh” Requested Siam of Free Trade for Ceramics, Pepper, etc. : Example
  – Root of diplomatic relation between Thailand and Japan
Sea Routes in Commodity Trading

- 17C: Shuin-sen Route
- 14-16C: Ryukyu Route

Cities:
- Kyoto
- Osaka
- Ryukyu
- Sukhothai
- Ayuttaya
- Hoi An
Osaka Historical Map (Base Map:1843)
Osaka Historical Databases in 1637-1890

- Official Notices from Local Government 1637-1870
- Economical Documents 1615-1830
- “Fushimiya Zenbei” Document 1800-1870
- “Dosho-machi” Document 1698-1885
- “Kagiya Mohei” Document 1739-1898
- “Itamiya Zenbei” Document 1810-1882
- “Tenma 11 chome” Document 1793-1855
- Others: 3 Databases

Above databases with Z39.50 Gateway Service
Overlaying Current Features to 1843’s Map
ASTER
(Advanced Spaceborne Thermal Emission and Reflection Radiometer)

Provided by ERSDAC
(Earth Remote Sensing Data Analysis Center)
Conclusions

• DSR Project in NII and CSEAS, Kyoto Univ.
• Sea Routes in Southeast and East Asia
• Introducing Location and Time (Space Information) into Historical Analyses
  – Grasping and Understanding Mutual Relation between Historical Events
  – Linking and Sharing Related Historical Resources with Multi Media
  – Visualization using Map Overlaying and 3D Model
• Viewpoint of IT
  – Applying GIS and Remote Sensing Technology to Historical Analyses
  – Z39.50 Retrieval Standard and Dublin Core Mapping, Metadata Management
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