The Eco Collection Database

symbiosis with nature



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Outline

- 1. Background: Road to Eco Collection Database
- 2. Eco Collection Database structures, purpose method (Metadata, High resolution graphics, Integrated Kanji Index)
- 3. Takagi Family Documents
- 4. Ito Keisuke Collection
- 5. Nature Disasters, Typhoon and Earthquakes
- 6. Effect
- 7. Future





1. Background: Road to Eco Collection Database (1)

1990s

Items which a library user expects in digital library



Items which
a library was
going to
computerize

Enhance one's educational and research functions

cause of the failure roughly speaking ...

Save by digitization.

f.e. Rare book, Bulletin...

Foundation for digital library system

- × Standardized Metadata
- × Linkage with other (DB, development sectors...)





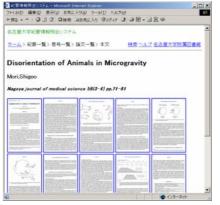
1. Background: Road to Eco Collection Database

(2)

Nagoya University Library late 90s

Digitize bulletin

1997 -



Ito Keisuke Collection 1998 -



Foundation for digital library system

- × Standardized Metadata
- × Linkage with other (DB, development sectors...)

But ...

Retrospective

conversion

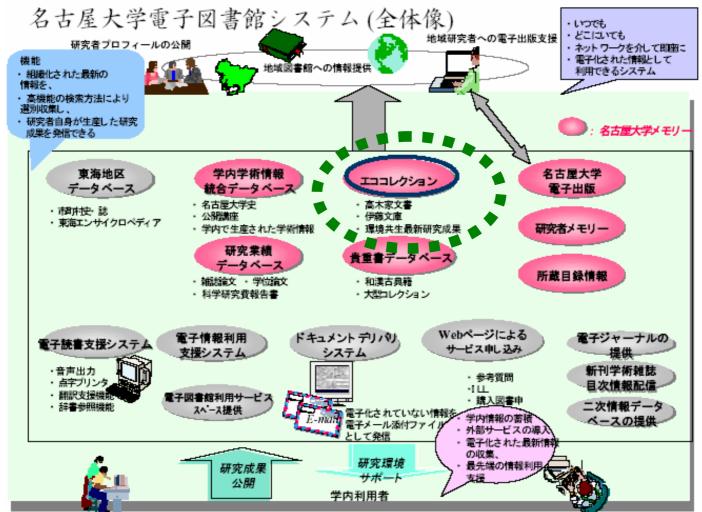
Eco Collection Database in "Nagoya University Memory" Nagoya University Memory≒Institutional Repository





1. Background: Road to Eco Collection Database (3)

Nagoya University Library late 90s



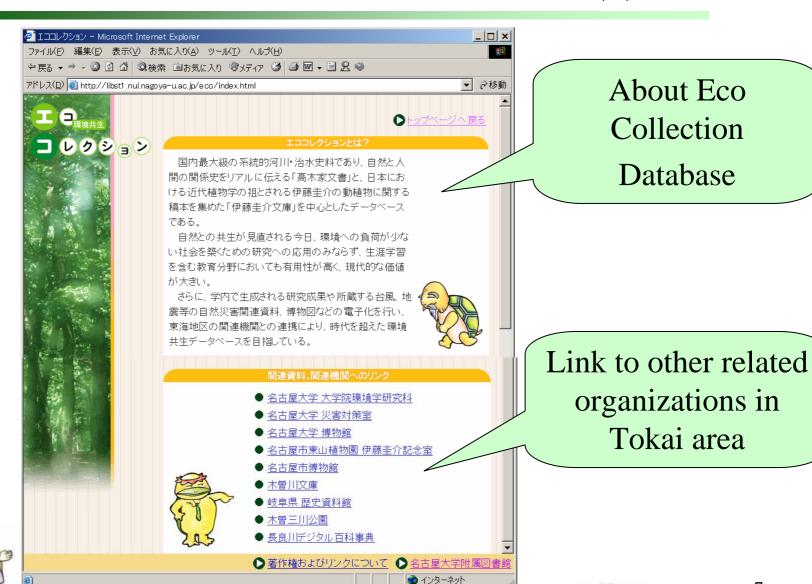




2. Eco Collection Database: structures (1)



2. Eco Collection Database: structures (2)



2. Eco Collection Database: purpose

Information resources in connection with education and research

Contemporary academic value

Neo-Natural River Reconstruction Method

Reconsideration of "the related history of nature and human being" Environmental science, Historical science, Historical geography, Animals and plants science



Assist in lifelong learning

Rich Biodiversity

Interest in natural science

Make better societies which are environment-friendly





2. Eco Collection Database: method

Metadata

Conform to Dublin Core

Integrated Kanji (Japanese Kanji character) Index

小項目 (3) 幕府

標題 〔徳川斉昭等処分覚書〕

標題 奥村小分名寄帳

作成者: 名前 野村斎身衛他



High resolution graphics

石高に対し何割という形で課される。土地関係を規定する最も重要な帳簿である。

斉? 斎? 齊?

1知行地

慶長14年9月1日 1609.09.01 美縦



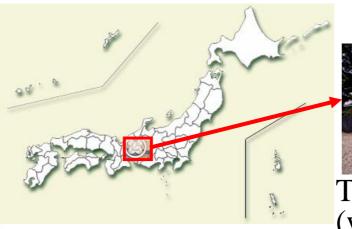


IADLC 2005

3. Takagi Family Documents: profile

Takagi Family Documents are <u>the largest scale systematic</u> <u>materials about peoples, rivers and flood control in Edo period, from 17th century to 19th century.</u>

These documents tell us the histories between nature and human beings realistically. The documents consist of <u>over 100,000</u> <u>documents.</u> The Takagi Family performed the Kiso 3 rivers management during Edo period.





Takagi's House

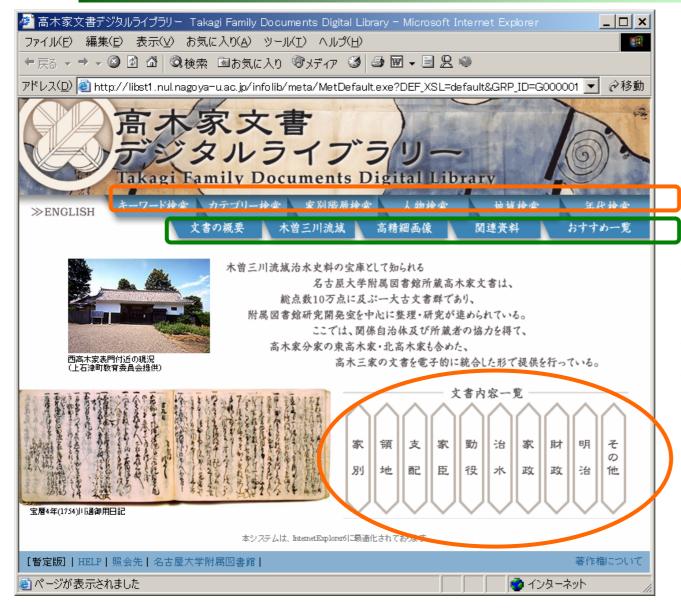
(west)





IADLC 2005

3. Takagi Family Documents: structures

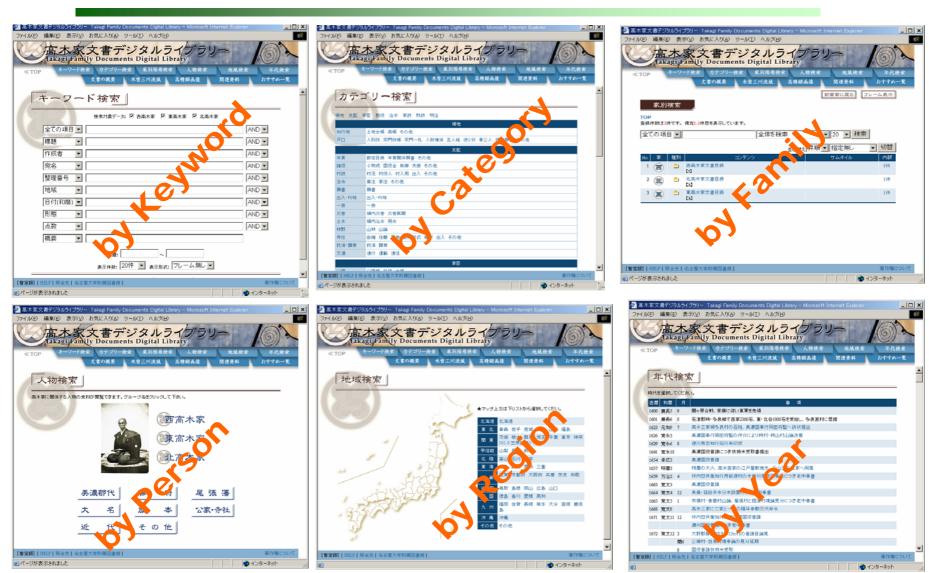


Extended search option

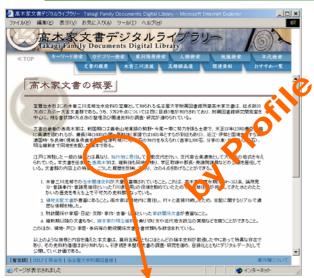
Profile,
Browse by river basin,
High resolution graphics,
Related information,
Recommended
documents

Browse by category

3. Takagi Family Documents: Extended search option (1)



3. Takagi Family Documents: Extended search option (2)





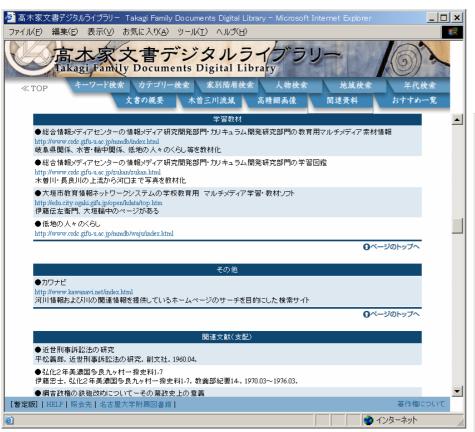






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3. Takagi Family Documents: For first-timers



Related information

Pathfinder

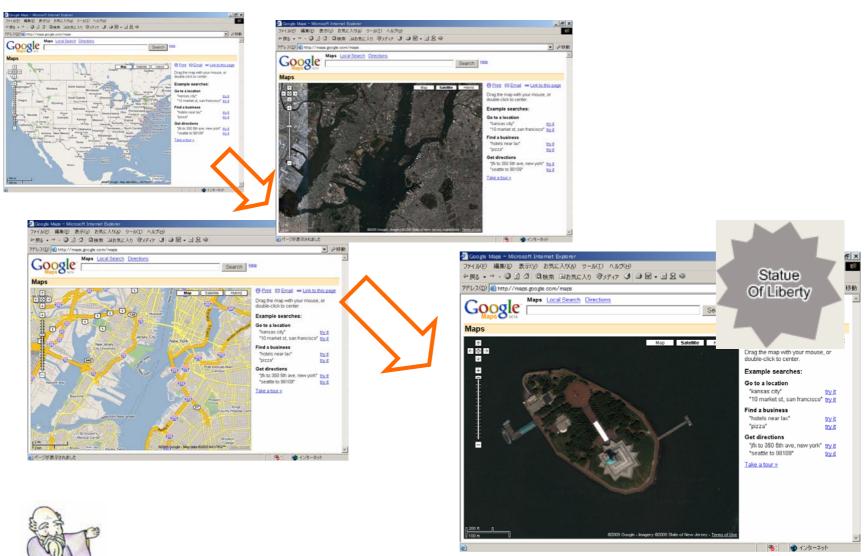
Learning materials, ...

List of High resolution graphics





3. Takagi Family Documents: Google Map

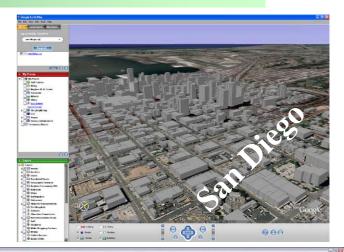




3. Takagi Family Documents: Google Earth

Fly to an address Zooming, tilting and rotating Comprehensive search results











3. Takagi Family Documents: High resolution graphics

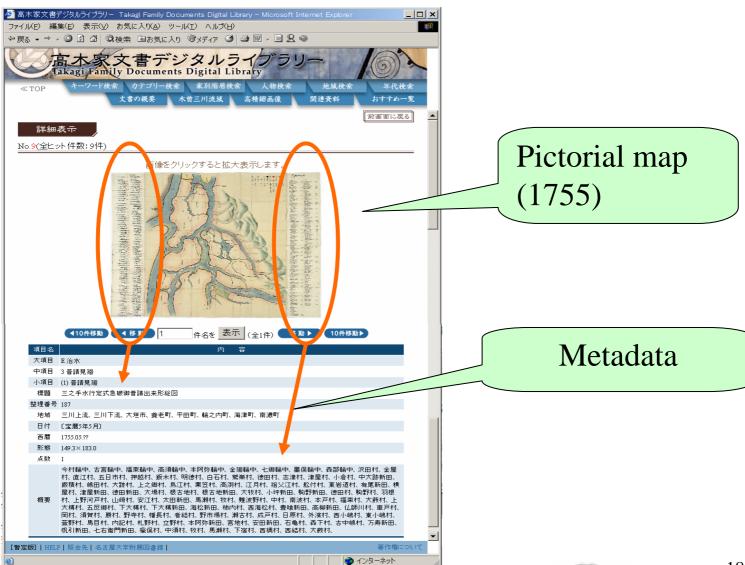
High-speed viewer to display high-resolution images.

It separates the data into fine, mesh-like structures and displays only necessary parts, maintaining high-resolution images without an added load on the network.





(1)







(2)

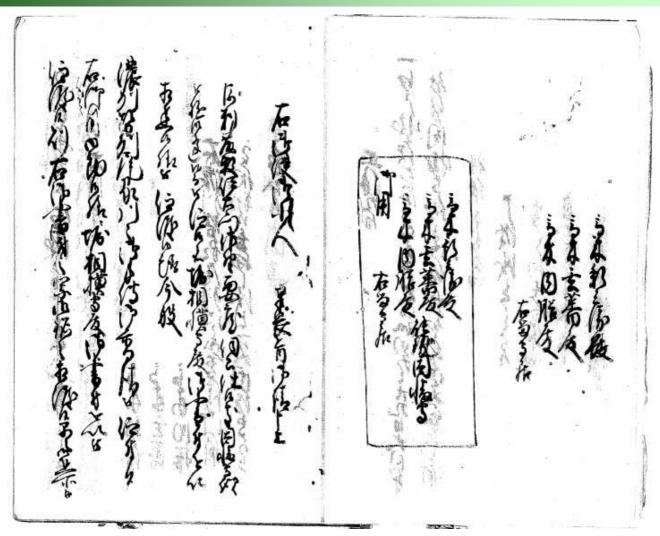




Kiso 3 rivers August 1753



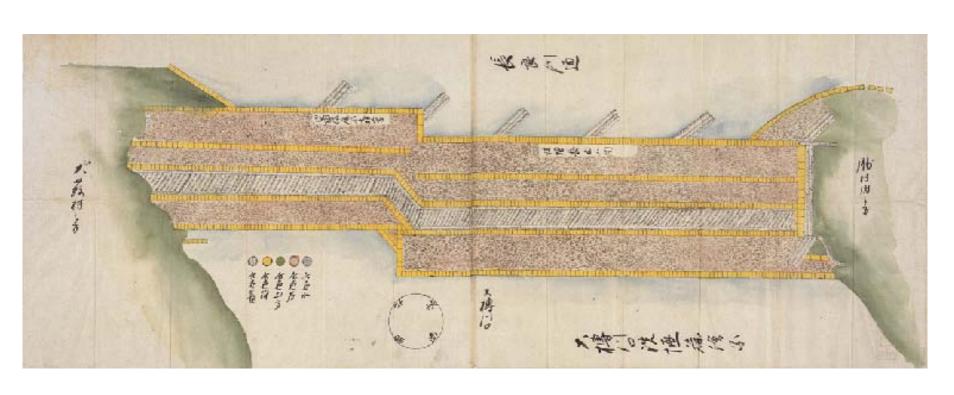
(3)





Diary January 9th 1754

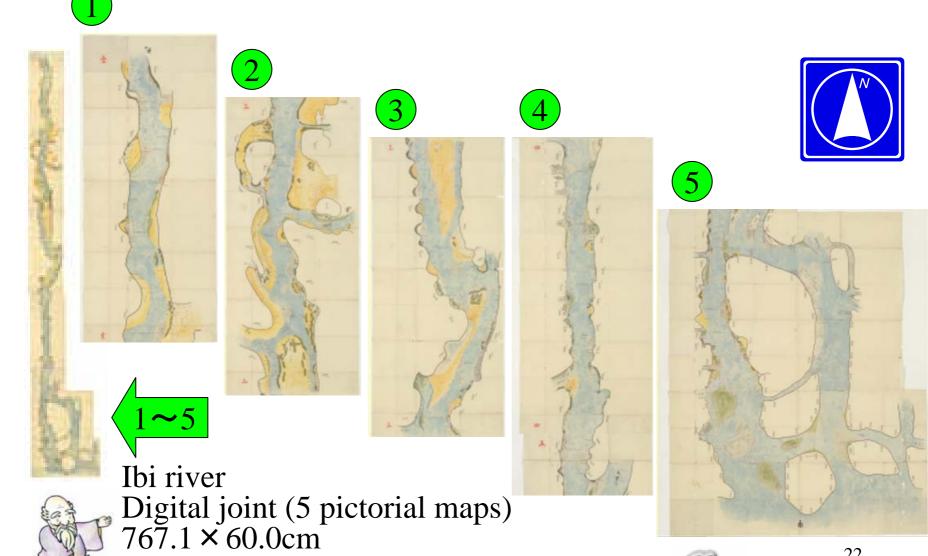




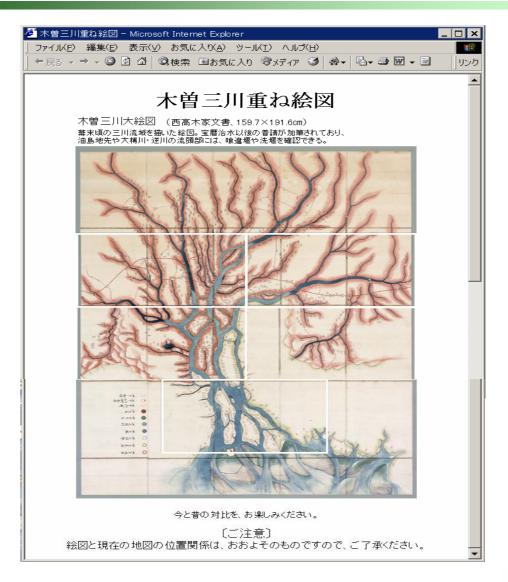
Oogure river







(6)







4. Ito Keisuke Collection: profile

This collection is **the manuscripts about animals and plants collected by ITO Keisuke(1803-1901)** who was the pioneer of modern botany in Japan.

From an early age, he learned Confucianism and medicine from his father. He also liked to study botany. At the age of 18, he became a medical practitioner.

At the age of 19, he went to Kyoto to study European sciences, and when he was 25 years old, he went to Nagasaki to study botany under Siebold. This became the turning point in his academic career.



lily of the valley *Convallaria keiskei* Miq.



4. Ito Keisuke Collection: structures



Extended search option

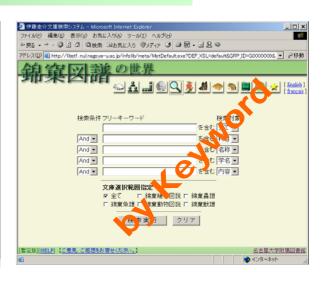
Browse by document

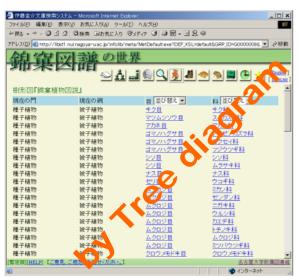


4. Ito Keisuke Collection: Extended search option (1)







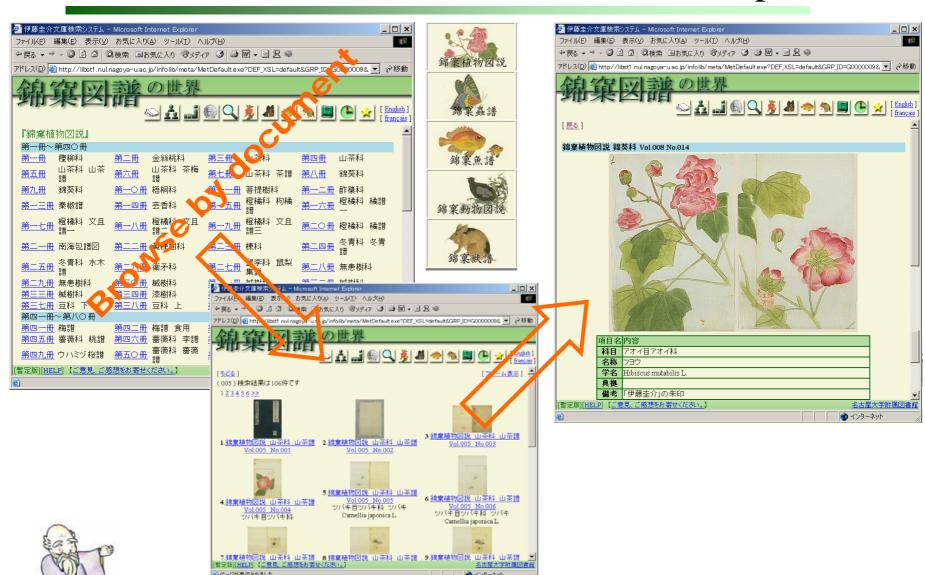




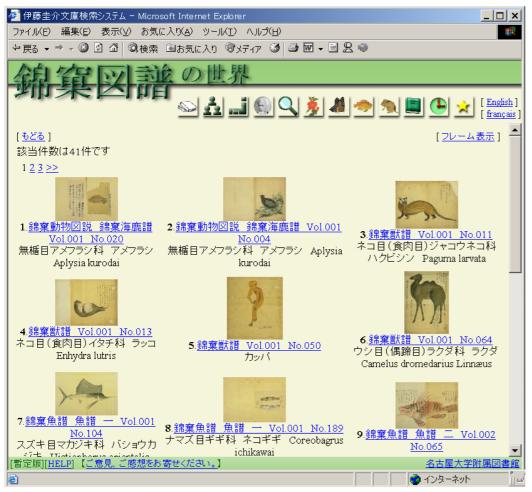


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4. Ito Keisuke Collection: Extended search option (2)



4. Ito Keisuke Collection: For first-timers



Recommended documents

Mascot character







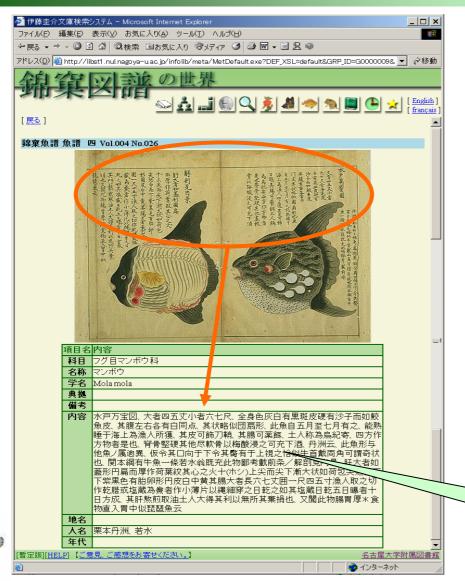








4. Ito Keisuke Collection: Record (1)



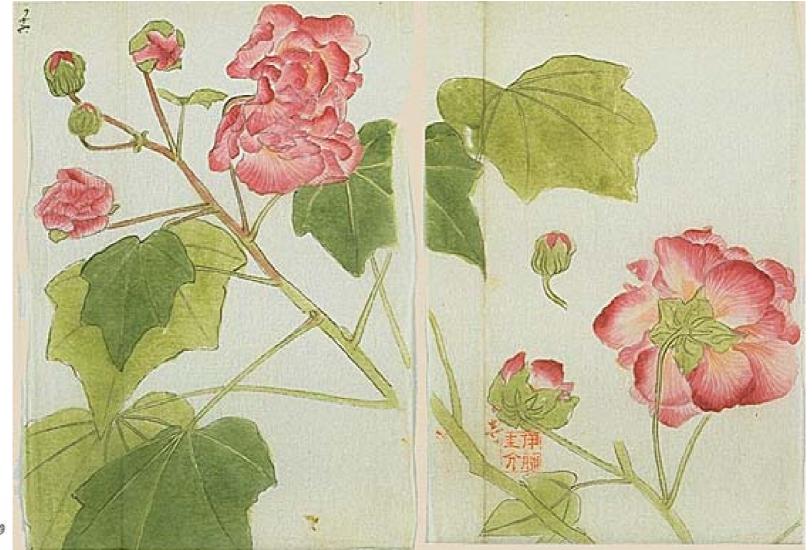


Metadata





4. Ito Keisuke Collection: Record (2)







4. Ito Keisuke Collection: Record (3)







4. Ito Keisuke Collection: Record (4)





4. Ito Keisuke Collection: Record (5)







4. Ito Keisuke Collection: Record (6)







5. Nature Disasters, Typhoon and Earthquakes

in Nagoya University



Isewan Typhoon (1959) Tounankai Earthquake (1944) Mikawa Earthquake (1945) ...

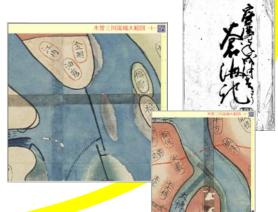








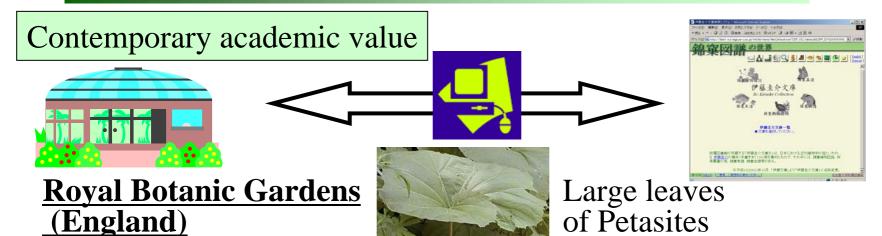




Houreki river improvement (1754-55)



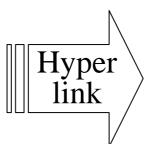
6. Effect (1)



Education Pathfinder











6. Effect (2)

Make better societies which are environment-friendly

Digital exhibition





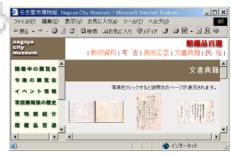
Collaboration



Kisogawa Library

Nagoya Higashiyama Botanical Gardens





Nagoya City Museum



7. Future (1)

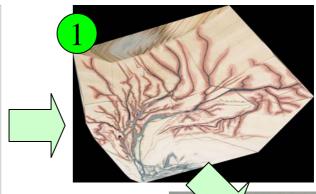
GIS (Geographic Information System)

Computerized system that relates and displays data collected from a geographic entity in the form of a map. [Britannica Online]

未曾三川大絵図

幕末頃の三川流域を描いた絵図。宝暦治水以後の普請が加筆されており、油島地先や大榑川・逆川の流頭部には、喰違堰や洗堰を確認できる。宝暦治水では、この三工区で難工をが、かえって水害激化地域を生むなど、流域治水の難しさを浮き彫りにするものとなった。なお、河口部に描かれた、三川の運ぶ土砂が発達させた大規模な砂州、葭原にも注目された大規模な砂州、葭原にも注目されたい。「西高木家文書」(159.7×191.6 cm)。



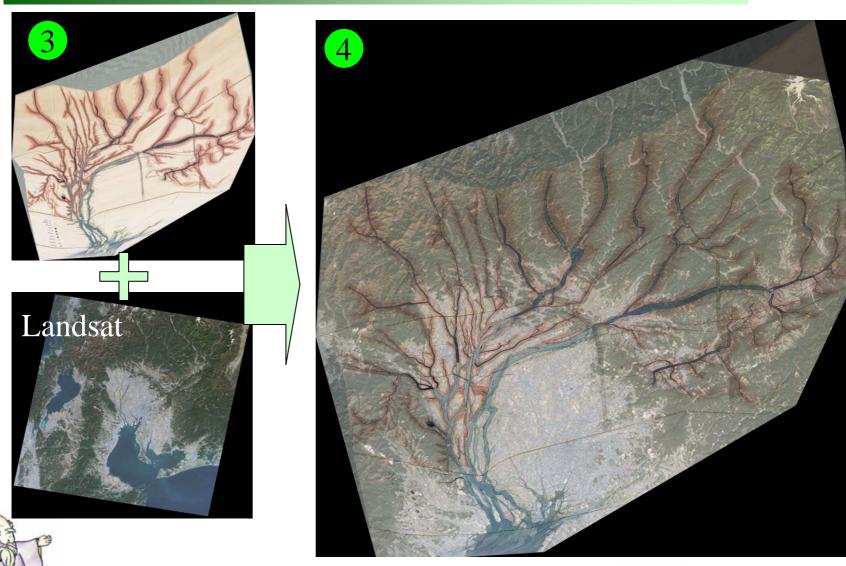


Rubber sheeting



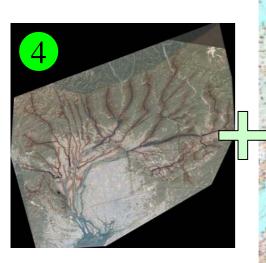


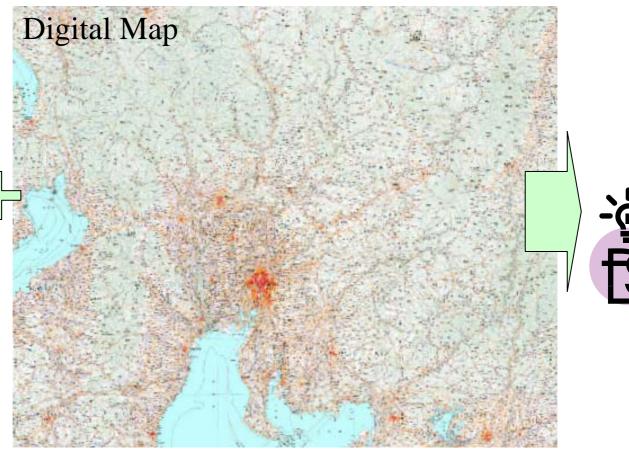
7. Future (2)





7. Future (3)



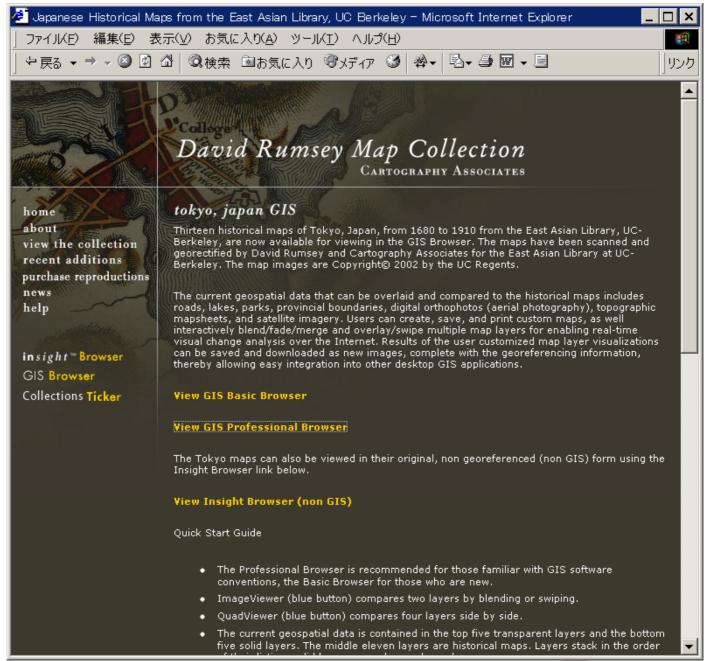




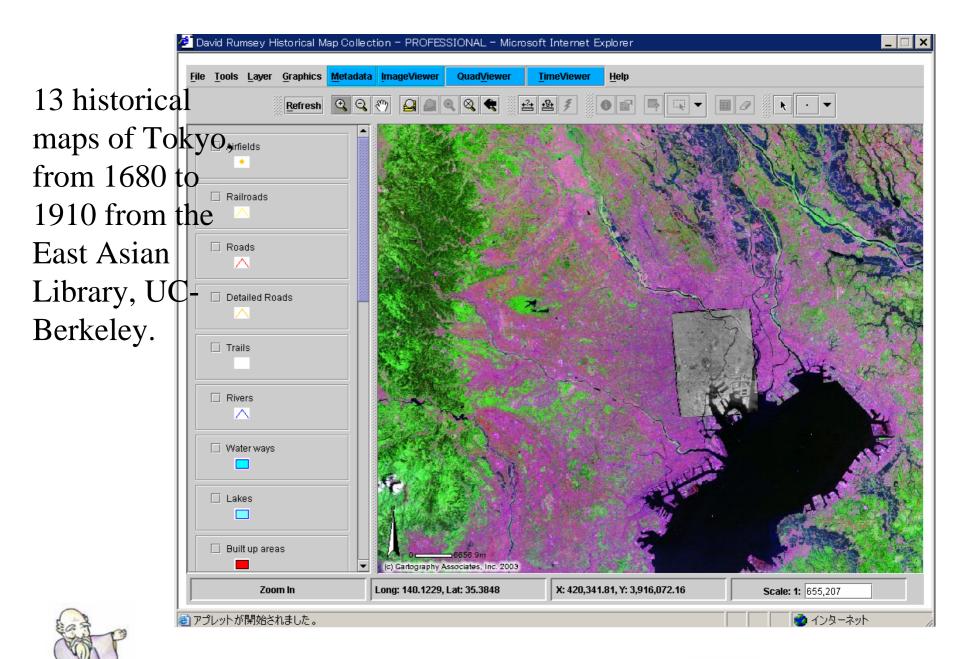




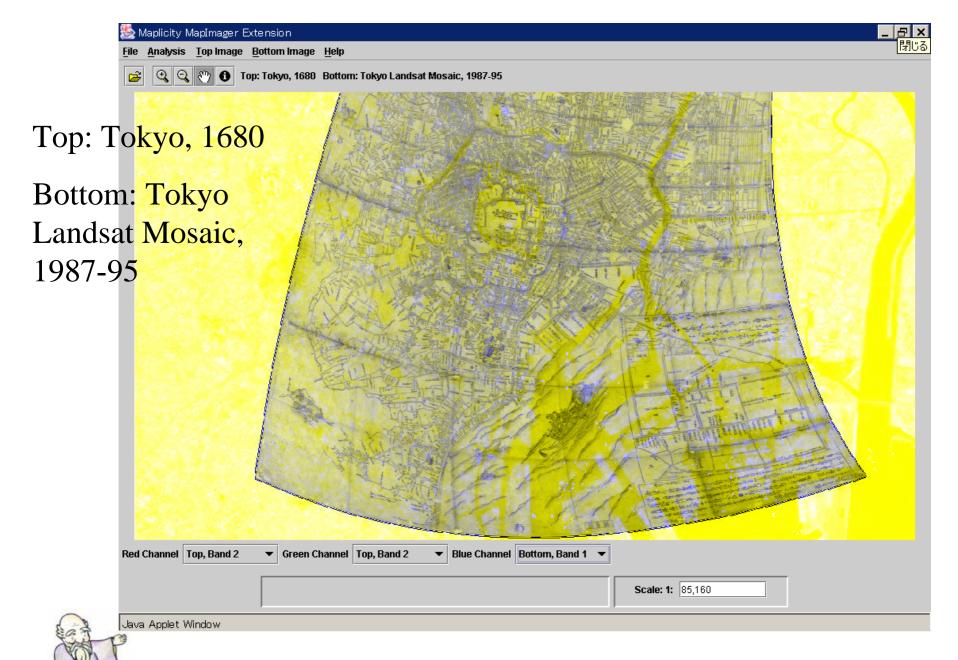










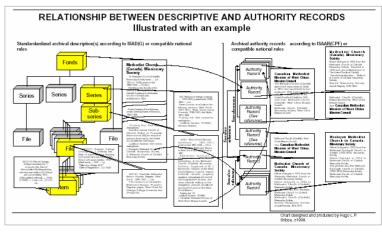


眉曲 IADLC 2005

7. Future (4)

(1) Standardization of technical terms

(2) Adoption of ISAD(G) (General International Standard Archival Description)



(3) Practical use of a feedback system

(4) Selection of resources

(5) View on symbiosis with nature





Thank you

