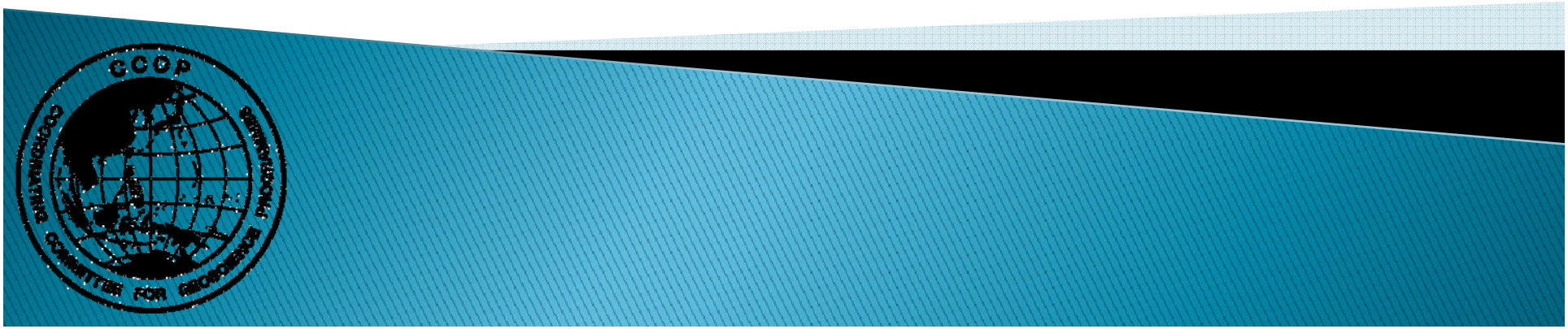
Metadata Projects in CCOP – Status Report

EPPM Launching Seminar

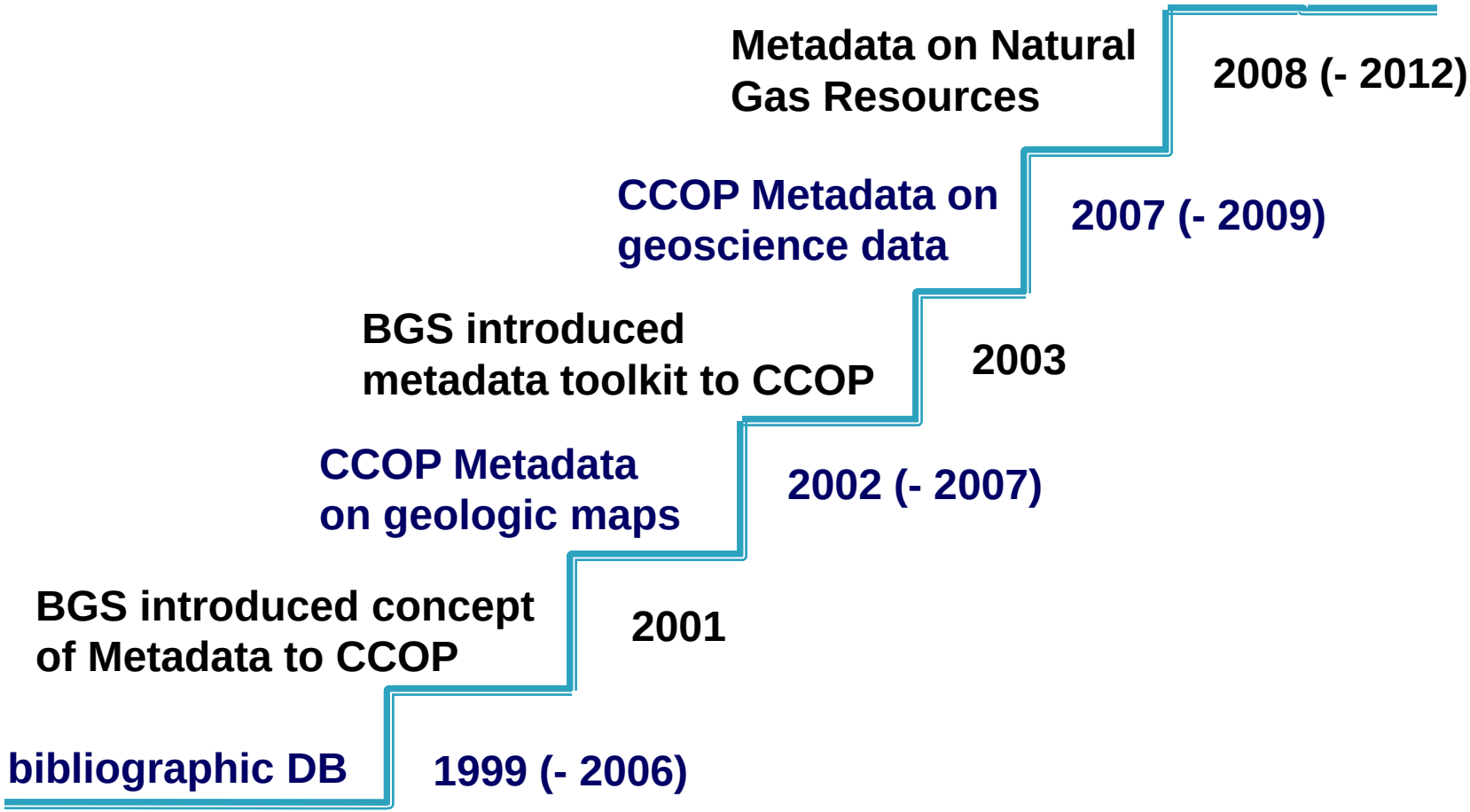
9-10 October 2008, Bangkok Thailand



Outline

- Early project / activities related to Metadata & CCOP Metadata Projects
  - Background/Objectives of Project
  - Project Activities / Outputs
  - Impacts
  - Lessons Learned
- Key Issues about Regional Metadata Projects

CCOP Metadata Projects / Activities

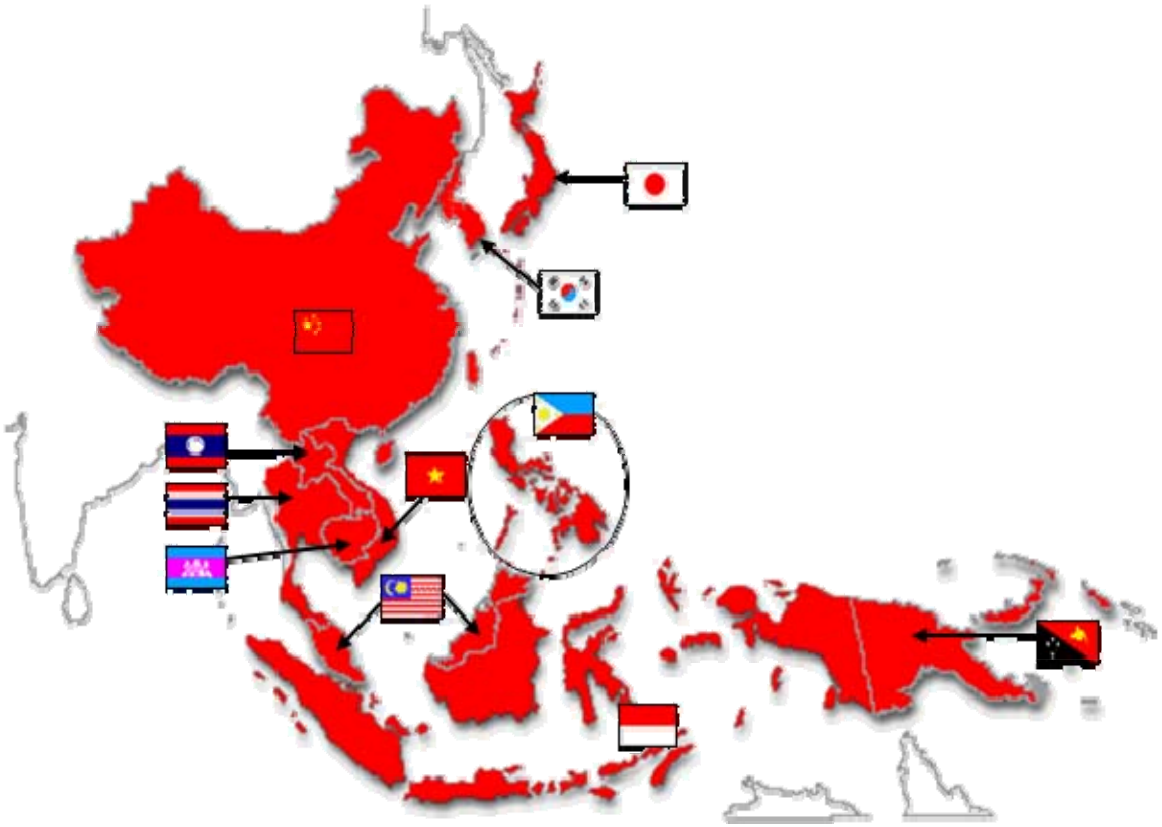


Southeast Asian Network for Geological Information System (SANGIS)

- for the development of the information potential of South-East Asian Geological Surveys.
- up-grading and harmonising existing digital data management systems in order to stimulate information circulation, to facilitate access to information and to promote the creation of an efficient regional geoscientific network.

SANGIS Network

11 Participating Countries



- Cambodia
- China
- Indonesia
- Japan
- Korea
- Lao PDR
- Malaysia
- Papua New-Guinea
- Philippines
- Thailand
- Vietnam

SANGIS

Background

- Supported by UNESCO and French Ministry of Foreign Affairs through CIFEG
- 1999 – initiated with CCOP by a Regional Technical SANGIS workshop in Bangkok
- 2003 – initiated Asian Multilingual Thesaurus Geoscience (AMTG) Project under SANGIS
- 2005 – transfer of Web SANGIS bibliographic database to CCOPTS and installation of SANGIS server at CCOPTS – http://www.ccop.or.th/sangis
- 2006 – published AMTG Book & online AMTG at http://www.ccop.or.th/amtg

SANGIS

Participating agencies

- General Department of Mineral Resources, Cambodia
- China Geological Survey (CGS)
- Geological Research and Development Center, Indonesia
- Geological Survey of Japan, AIST
- Korea Institute of Geoscience and Mineral Resources (KIGAM)
- Minerals and Geoscience Department Malaysia (JMG)
- Department of Mining, Geological Survey Division, Papua New Guinea
- Mines and Geosciences Bureau, The Philippines (MGB)
- Department of Mineral Resources (DMR), Bangkok, Thailand
- Center for Information and Archives of Geology, Department of Geology and Minerals of Vietnam
- Department of Geology and Mines, Vientiane, Lao PDR

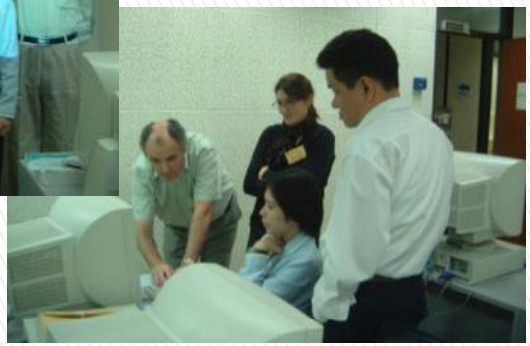
SANGIS

Activities / Outputs

- Workshops / 2 Training Courses / Several Technical Visits
- Bibliographic database management system designed for publications in geoscience developed under MsAccess
- Web application – to search and display the database on the web - in XML language – http://www.ccop.or.th/sangis
- AMTG – book & web –http://www.ccop.or.th/amtg

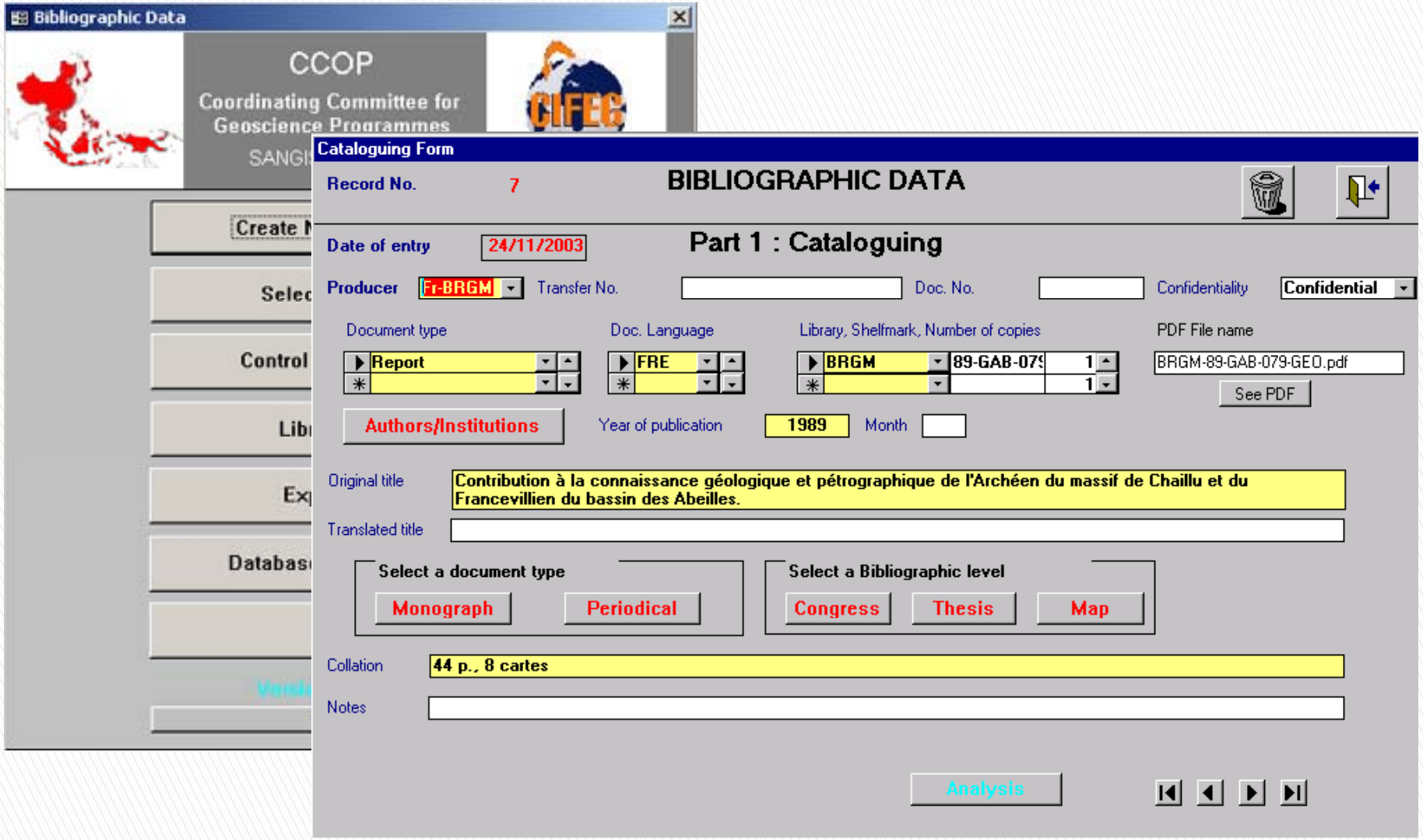
SANGIS 1st Workshop on AMTG
Bangkok, Thailand, Aug 2003

SANGIS 2nd
Training Course,
Bangkok, Thailand,
January 2002

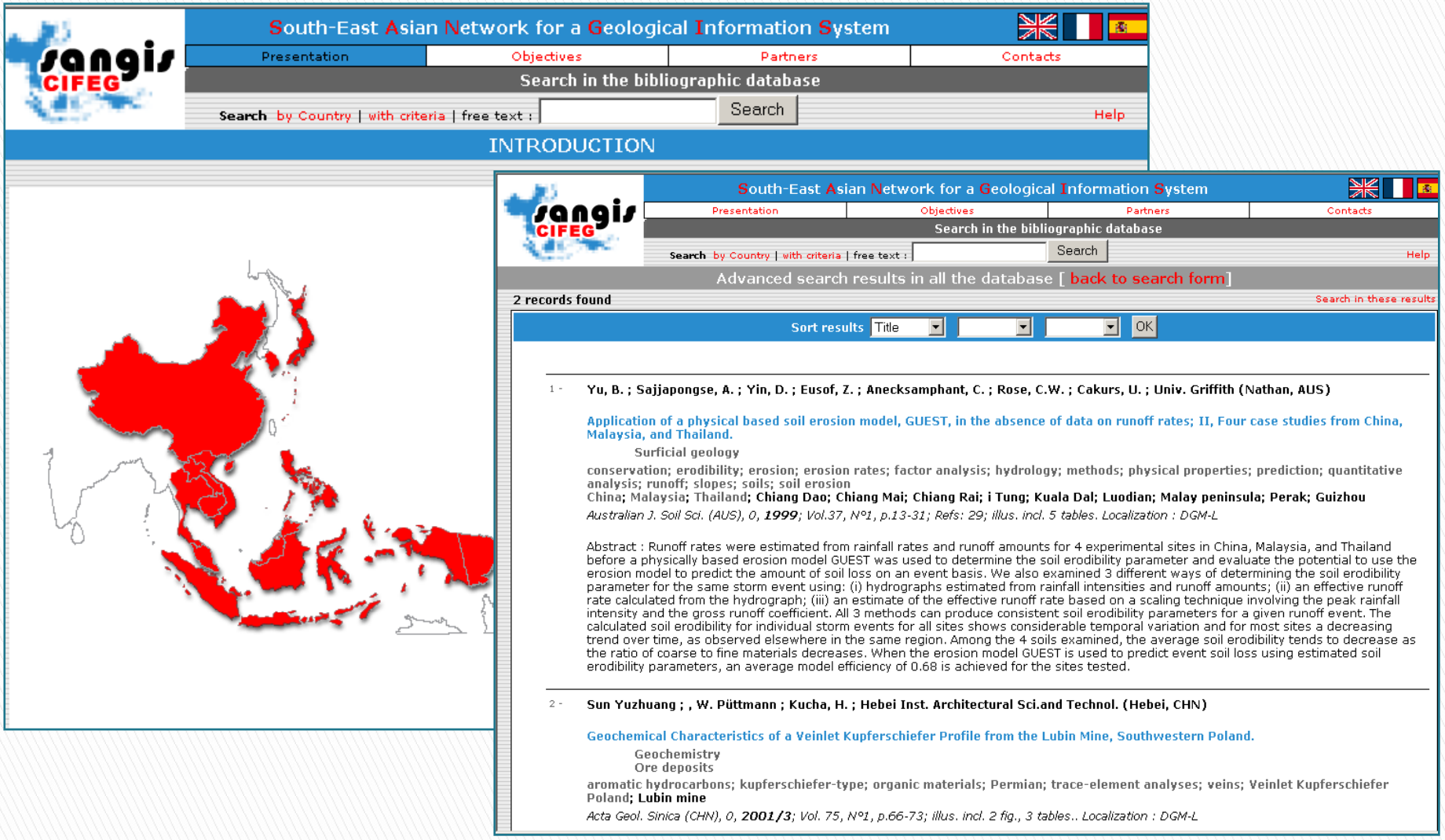


Technical Visit in China combined with Training Session,
Sept 2005

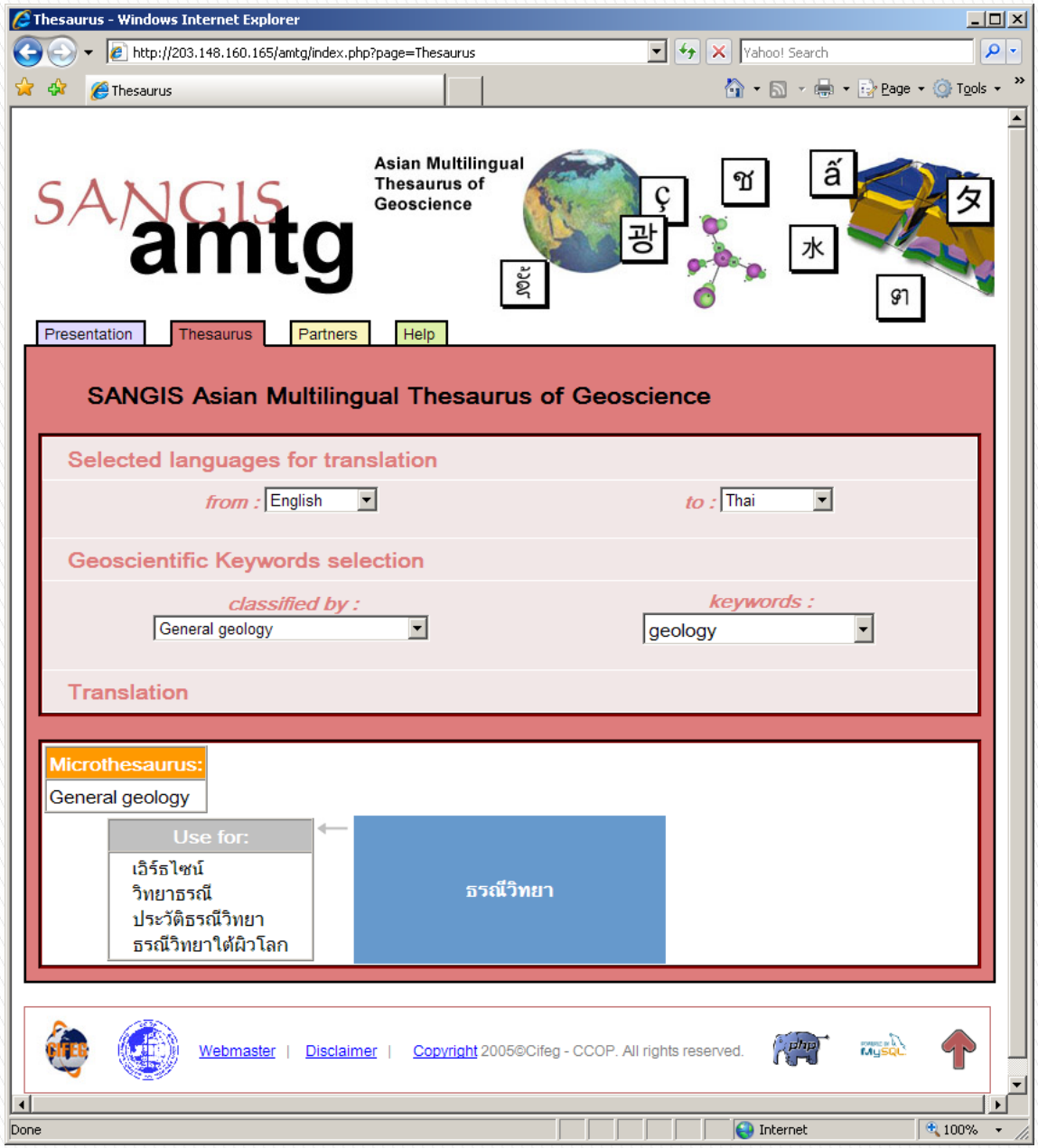
Workshops, Training Courses, Technical Visits

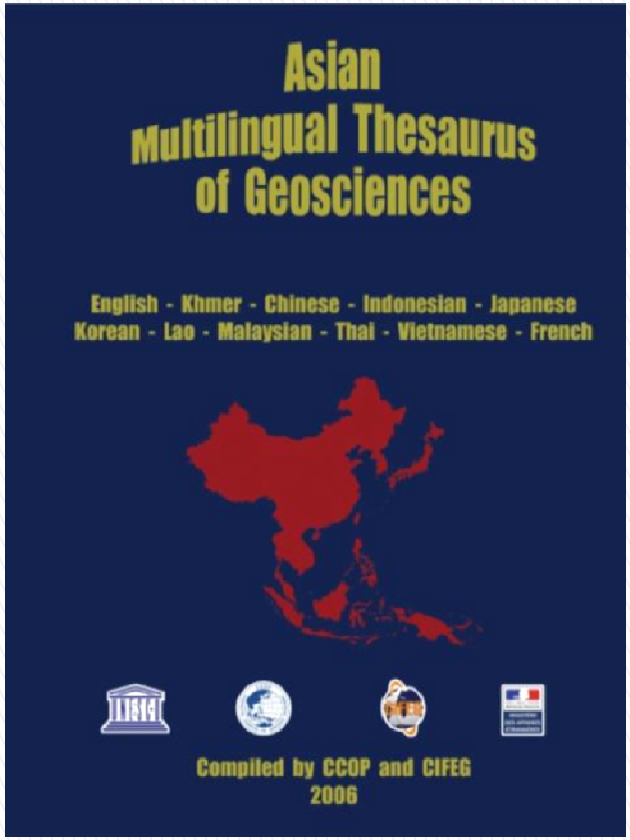


MS Access Bibliographic Database Management System



SANGIS Web Application
http://www.ccop.or.th/sangis





AMTG Book & Web

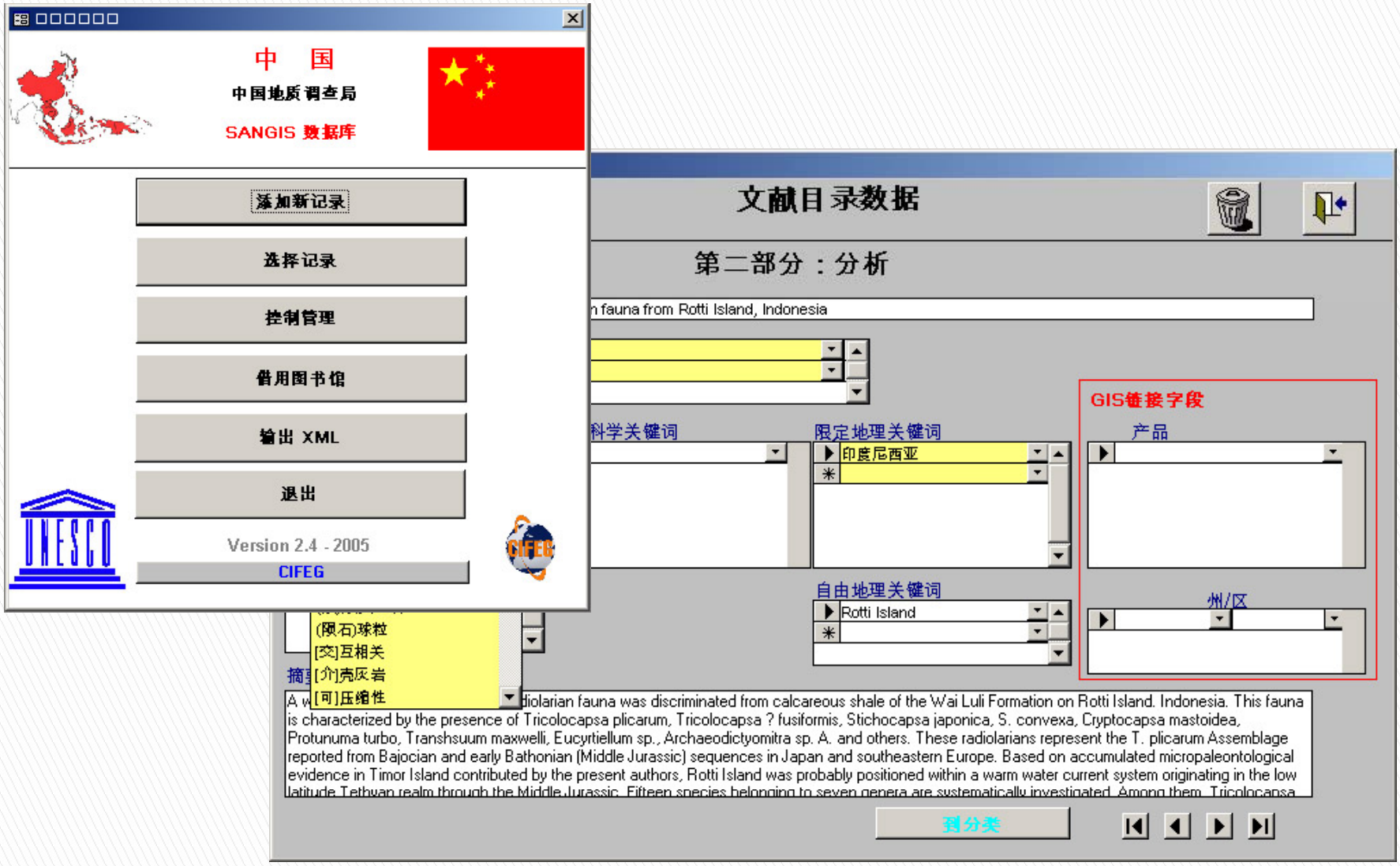
SANGIS

Impacts

- Trained personnel in data management – in particular bibliography (metadata on publications)
- Some MC adopted the use of the bibliographic management system in managing their bibliographic data, both as is and extended.
- Researchers around the world can go to the SANGIS website for available geoscience literatures in East and Southeast Asia
- The start of metadata network/cooperation among CCOP

Impacts

- With AMTG, some MC use the bibliographic system in their local language, providing ease of use.
- The AMTG book has been widely and freely distributed, and have been made as reference in research works.
- AMTG online helps fast translation of geoscientific terms



SANGIS MsAccess
Bibliographic Application in Chinese

Lessons learned

- To tackle issues about the following at the start of the project
  - Sustainability
  - Multiple language
  - Needs/Requirements of the Participating Agencies
- Address the easy/efficient transfer of data from national existing systems
- Centralized database vs decentralized database
- Ownership of metadata & responsibility of updating own metadata
- Cooperation among the 3 stakeholders – geologists, librarian and IT personnel

CCOP Metadata Project Phase I – Metadata on Geologic Maps

- To compile metadata on geologic maps following ISO19115 standard
- To introduce metadata compilation and management to CCOP Member Countries
- Initiated in 2002 supported by GSJ/AIST

International Seminar on Geoinformation via the Internet & Workshop on CCOP Metadata
18-22 February 2002 Tsukuba, Japan

Metadata on Geologic Maps

Participating agencies

1. General Department of Mineral Resources, Cambodia
2. China Geological Survey (CGS)
3. Geological Survey Institute, Geological Agency, Indonesia
4. Geological Survey of Japan, AIST
5. Korea Institute of Geoscience and Mineral Resources (KIGAM)
6. Minerals and Geoscience Department Malaysia (JMG)
7. Department of Mining,Papua New Guinea
8. Mines and Geosciences Bureau, The Philippines (MGB)
9. Department of Mineral Resources (DMR), Bangkok, Thailand
10. Center for Information and Archives of Geology, Department of Geology and Minerals of Vietnam

Metadata on Geologic Maps

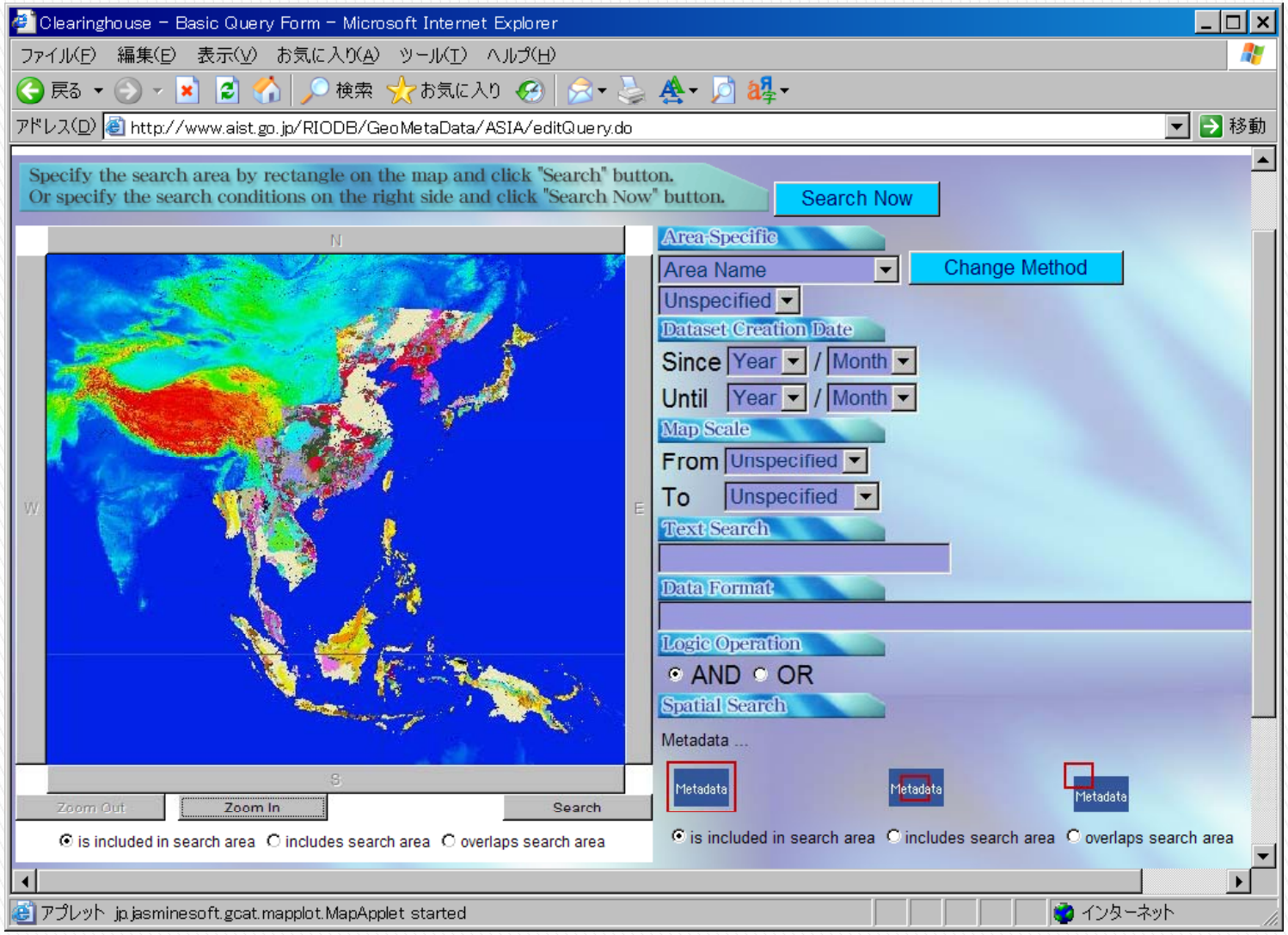
Activities / Outputs

- CCOP Metadata Working Group
- Workshops / Seminars / Working Group Meetings
- 28-items metadata standard on geologic maps based on ISO19115
- Metadata clearinghouse
- 4,400 metadata records collected at the end of project – 2007.

CCOP Metadata Workshop
10-11 March 2003, Daejeon, Korea

CCOP Metadata Working Group Meeting
Nov 2005, Bangkok, Thaland

Workshops, Meetings



Metadata Clearinghouse

Metadata on Geologic Maps

Impacts

- Awareness of CCOP Member Countries on the need of metadata in data management
- Awareness of CCOP Member Countries in existing international metadata standards
- Countries began to build on the agreed CCOP metadata standard for geologic maps for other geoscientific data.
- Countries began to see the need of promoting their data through building a metadata.

Metadata on Geologic Maps

Lessons Learned

- To address issue of fast and efficient update of metadata.
- Sustainability – server maintenance
- Address the easy/efficient transfer of data from national existing systems
- Centralized database vs decentralized database
- Ownership of metadata & responsibility of updating own metadata

CCOP Metadata Phase II – Metadata on Geoscientific Data

- Extension of Phase I
- To develop CCOP Metadata Standard for a wide coverage of geoscientific subjects in conformance with ISO19115 Metadata Standard and with reference to CGS Metadata Standard for Geo-information. These geoscientific subjects include minerals, groundwater, geohazard, coastal zone (marine and quaternary geology), geophysics and geochemistry, and energy (sedimentary basins, geothermal).
- Started in 2007 and target to finish in 2009
- Technically and financially supported by CGS

CCOP-CGS-GSJ/AIST
Seminar on Geoinformation Technology &
4th Workshop of CCOP Metadata Working Group
5 - 7 September,2006, Guangzhou, China

Metadata on Geoscientific Data

Participating Agencies

1. General Department of Mineral Resources, Cambodia
2. China Geological Survey (CGS)
3. Center for Geological Resources, Geological Agency, Indonesia
4. Geological Survey of Japan, AIST
5. Korea Institute of Geoscience and Mineral Resources (KIGAM)
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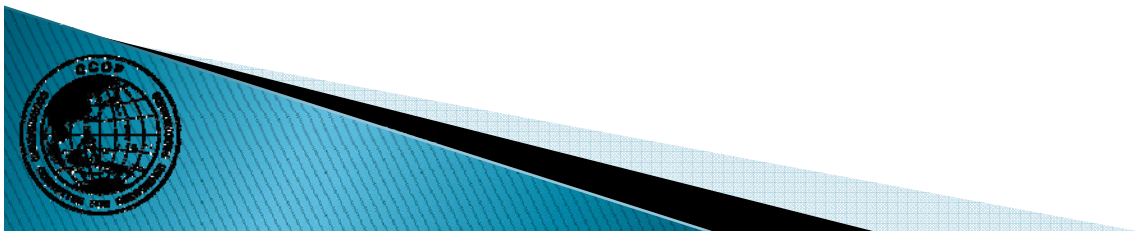
Metadata on Geoscientific Data

Deliverables

- CCOP Metadata Standard on Geoscientific Data
- CCOP Metadata Management System –updating and retrieving data
- Trained personnel in metadata management



Metadata on Geoscientific Data

Progress

- First Workshop, 17-21 March 2008, Hainan, China
  - Output of the workshop
    - Working Group were introduced to ISO19115 metadata standard in detail
    - Draft CCOP Metadata Standard excluding Codelists
- Collecting inputs from Working Group on codelists

CCOP Metadata Project Phase II – First Workshop
18 – 20 March 2008, Haikou, China

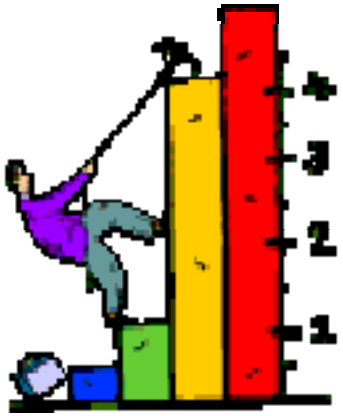
Metadata on Geoscientific Data

Workplan for 2009

Activities	Schedule
To complete CCOP Metadata Standard for Geoscience	2008
To develop the CCOP Metadata System Software	2009
Workshop/Hands-On Training for Using the CCOP Metadata System Software	December 2009
Launching and deploy the software to CCOPTS and to Member Country	December 2009
Hands-on Training for Member Country upon request	2009 - 2010

Metadata on Geoscientific Data

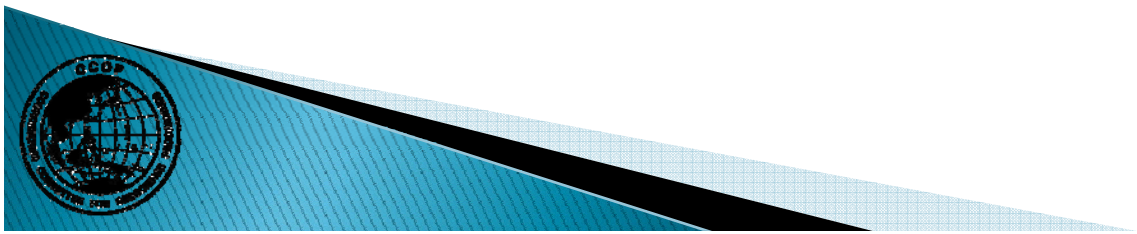
Challenges so far



- Discussions among the Working Group are mostly limited to workshop/meeting period only
- Codelists construction

Key Issues in Regional Metadata Projects

- Completeness
- Language
- Interoperability – Metadata & Systems
  - Compliance to International Standards
- Updating metadata
- Sustainability – Metadata & Systems



Thank you…
& best wishes to the EPPM Project!

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