

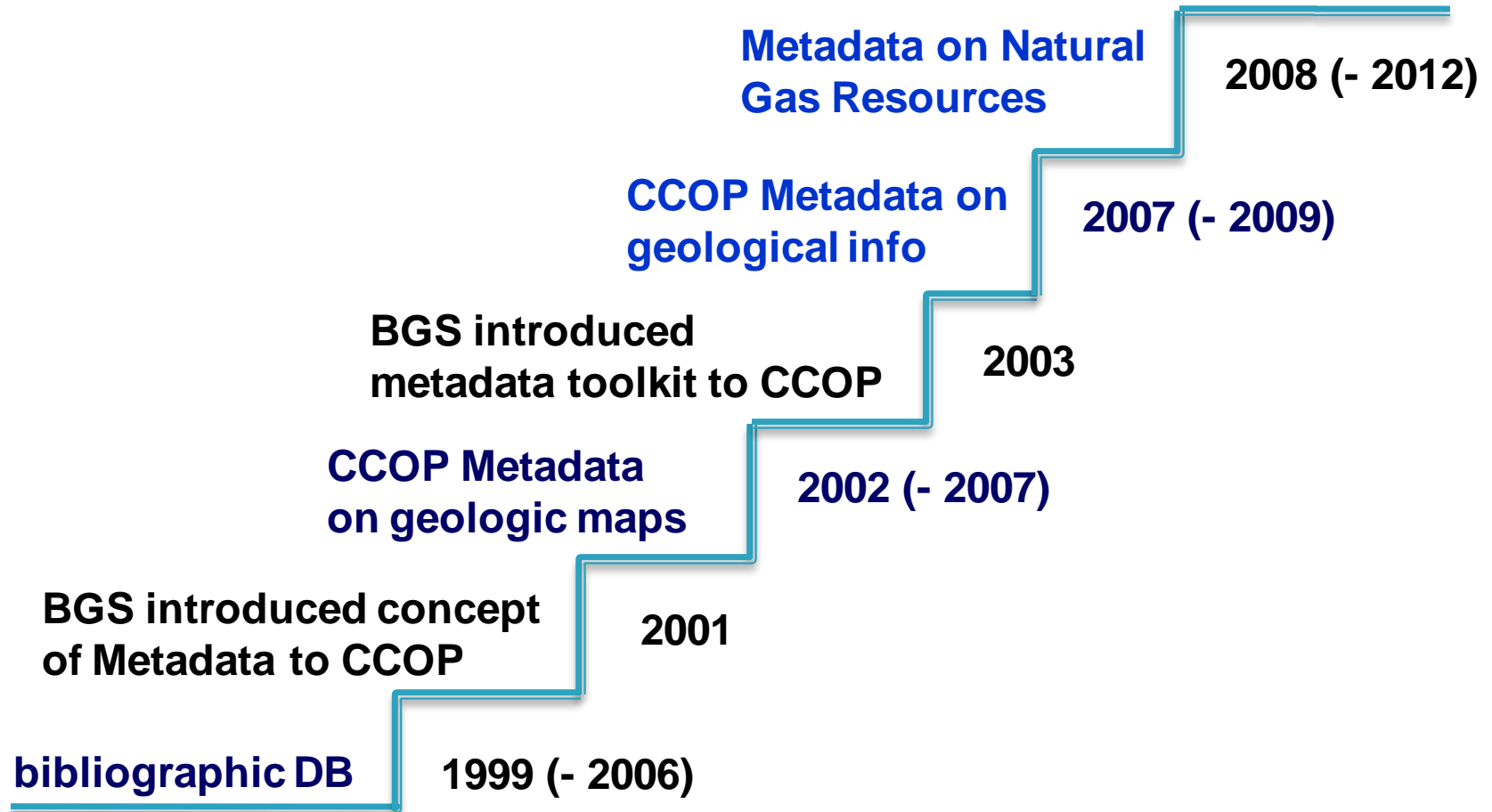
Status of Metadata Projects in CCOP

Workshop on CCOP Metadata Standard & Requirement
Analysis for the Natural Gas Database Metadata

In cooperation with the
CCOP Metadata Project Phase II
1-3 April 2009, Shanghai, China



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.



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>

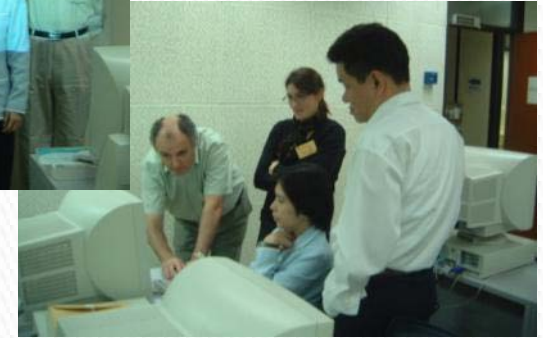




SANGIS 1st Workshop on AMTG
Bangkok, Thailand, Aug 2003




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




Technical Visit in China combined with Training Session,
Sept 2005

Workshops, Training Courses, Technical Visits

Bibliographic Data



CCOP
Coordinating Committee for
Geoscience Programmes
SANGHAI



Cataloguing Form

BIBLIOGRAPHIC DATA

Record No. **7**

Part 1 : Cataloguing

Date of entry **24/11/2003**

Producer **F-BRGM** Transfer No. Doc. No. Confidentiality **Confidential**

Document type **Report** Doc. Language **FRE** Library, Shelfmark, Number of copies **BRGM 89-GAB-079 1** PDF File name **BRGM-89-GAB-079-GEO.pdf**

Authors/Institutions Year of publication **1989** Month

Original title **Contribution à la connaissance géologique et pétrographique de l'Archéen du massif de Chaillu et du Francevillien du bassin des Abeilles.**

Translated title

Select a document type: **Monograph** **Periodical**


Select a Bibliographic level: **Congress** **Thesis** **Map**

Collation **44 p., 8 cartes**

Notes

Analysis

MS Access Bibliographic Database Management System



South-East Asian Network for a Geological Information System

Presentation	Objectives	Partners	Contacts
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Search in the bibliographic database

Search [by Country](#) | [with criteria](#) | free text : [Help](#)

INTRODUCTION




South-East Asian Network for a Geological Information System

Presentation	Objectives	Partners	Contacts
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Search in the bibliographic database

Search [by Country](#) | [with criteria](#) | free text : [Help](#)

Advanced search results in all the database [[back to search form](#)]

Search in these results

2 records found

Sort results	Title			<input type="button" value="OK"/>
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1 - **Yu, B. ; Sajjapongse, A. ; Yin, D. ; Eusof, Z. ; Anecksamphant, C. ; Rose, C.W. ; Cakurs, U. ; Univ. Griffith (Nathan, AUS)**

[Application of a physical based soil erosion model, GUEST, in the absence of data on runoff rates; II, Four case studies from China, Malaysia, and Thailand.](#)

Surficial geology
 conservation; erodibility; erosion; erosion rates; factor analysis; hydrology; methods; physical properties; prediction; quantitative analysis; runoff; slopes; soils; soil erosion
 China; Malaysia; Thailand; **Chiang Dao; Chiang Mai; Chiang Rai; i Tung; Kuala Dal; Luodian; Malay peninsula; Perak; Guizhou**
Australian J. Soil Sci. (AUS), 0, 1999; Vol.37, N°1, p.13-31; Refs: 29; illus. incl. 5 tables. Localization : DGM-L

Abstract : Runoff rates were estimated from rainfall rates and runoff amounts for 4 experimental sites in China, Malaysia, and Thailand before a physically based erosion model GUEST was used to determine the soil erodibility parameter and evaluate the potential to use the erosion model to predict the amount of soil loss on an event basis. We also examined 3 different ways of determining the soil erodibility parameter for the same storm event using: (i) hydrographs estimated from rainfall intensities and runoff amounts; (ii) an effective runoff rate calculated from the hydrograph; (iii) an estimate of the effective runoff rate based on a scaling technique involving the peak rainfall intensity and the gross runoff coefficient. All 3 methods can produce consistent soil erodibility parameters for a given runoff event. The calculated soil erodibility for individual storm events for all sites shows considerable temporal variation and for most sites a decreasing trend over time, as observed elsewhere in the same region. Among the 4 soils examined, the average soil erodibility tends to decrease as the ratio of coarse to fine materials decreases. When the erosion model GUEST is used to predict event soil loss using estimated soil erodibility parameters, an average model efficiency of 0.68 is achieved for the sites tested.

2 - **Sun Yuzhuang ; , W. Püttmann ; Kucha, H. ; Hebei Inst. Architectural Sci.and Technol. (Hebei, CHN)**

[Geochemical Characteristics of a Veinlet Kupferschiefer Profile from the Lubin Mine, Southwestern Poland.](#)

Geochemistry
 Ore deposits
 aromatic hydrocarbons; kupferschiefer-type; organic materials; Permian; trace-element analyses; veins; Veinlet Kupferschiefer Poland; **Lubin mine**
Acta Geol. Sinica (CHN), 0, 2001/3; Vol. 75, N°1, p.66-73; illus. incl. 2 fig., 3 tables.. Localization : DGM-L

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

Thesaurus - Windows Internet Explorer

http://203.148.160.165/amtg/index.php?page=Thesaurus

Asian Multilingual Thesaurus of Geoscience

SANGIS amtg

Presentation Thesaurus Partners Help

SANGIS Asian Multilingual Thesaurus of Geoscience

Selected languages for translation

from : English to : Thai

Geoscientific Keywords selection

classified by : General geology keywords : geology

Translation

Microthesaurus:
General geology

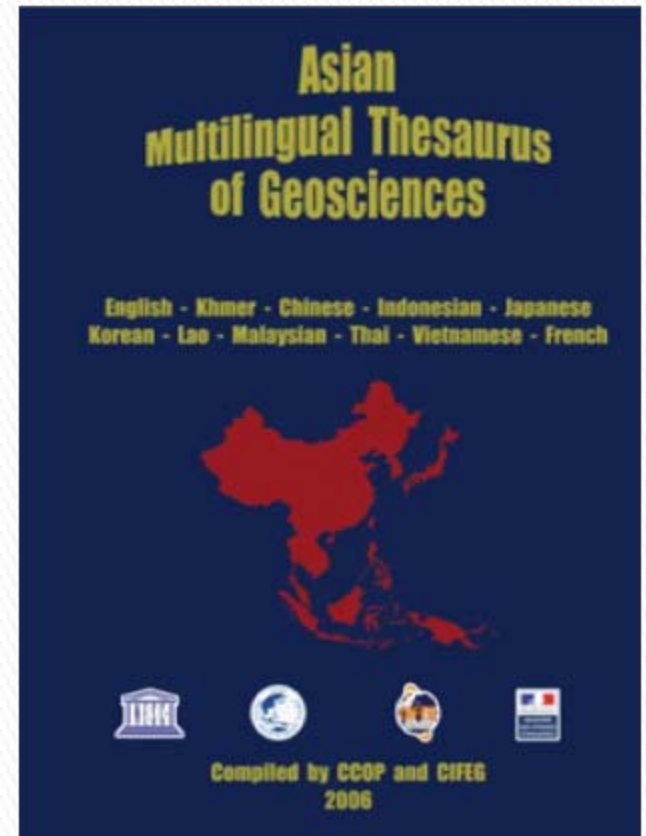
Use for: ←

ธรณีวิทยา

เขົរឌីស្ទ័ន
វិទ្យាសាស្ត្រ
ប្រវត្តិសាស្ត្រវិទ្យា
សាស្ត្រវិទ្យាដ៏ដ្ឋិវាលក

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Done Internet 100%



AMTG Book & Web

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

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.



Geological Metadata Clearinghouse

<http://riodb02.ibase.aist.go.jp/GeoMetaData/MetaAsia/index.html>

Geological Metadata Clearinghouse - TOP - Windows Internet Explorer

<http://riodb02.ibase.aist.go.jp/GeoMetaData/MetaAsia/index.html>

Convert Select

Geological Metadata Clearinghouse - TOP -

地質情報総合メタデータ
Geological Metadata clearinghouse

Geological Metadata Clearinghouse

Metadata is a data that describes the meaning of the data, and the typical example of the metadata is the literature information that describes the author, the publisher, and other data of the book. The metadata that also describes the information (such as the availability, contents, quality, conditions for use) supply the quite important information to the user of the data. In the case of the geographical data, or the spatial information, the information on the spatial area that is covered by the data is also an important information.

It is important that the metadata is described in the standardized format. TC211 of the International Standard Organization determined the standard for the metadata of the geographical information. The metadata items that is necessary for the data retrieval is the subset of the overall metadata.

Geological Metadata Clearinghouse uses the metadata that is adequate for the metadata of the published geological maps. We began with collecting the metadata of geological maps published by countries in East and Southeast Asia. The data is continually being updated. Please check the update information written on the bottom of this page.

System Requirements

- Windows 2000/XP Internet Explorer 6,7 / Netscape 7
- MacOS X Safari 1.2.4 or higher

※It is required a VRML plug-in viewing 3D WebGIS in this system. Please install a plug-in, before you use this site. You can use the following free plug-ins.

- blaxxun Contact
- Cortona VRML Client

How to Use

If you click 'Search with map' link below, you can see locational error on the geological map, and search metadata by coordinates on the map. And also you can specify some

Done

Internet | Protected Mode: On 100%

Metadata-Draf... Sent Items in ... FW: New serve... MetadataProje... CCOP_Metada... Geological Met... Calculator 12:58 AM

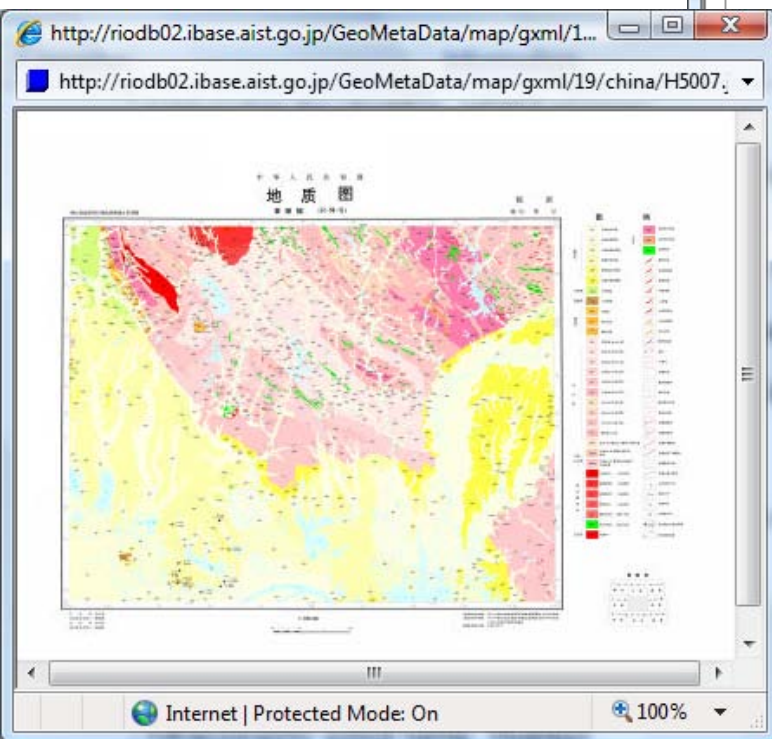


Geological Metadata Clearinghouse

Search with Map

The screenshot displays the Geological Metadata Clearinghouse web application in a Windows Internet Explorer browser. The browser's address bar shows the URL: <http://riodb02.ibase.aist.go.jp/GeoMetaData/MetaAsia/mapframe.jsp>. The page header includes the AIST logo and the text "Geological Metadata Clearinghouse". Below the header, there is a navigation menu with "AIST > GSJ > Metadata" and a "Help: HOME" link. The main content area features a map of Asia with a grid overlay, showing various countries and regions. A sidebar on the right, titled "View / Search", contains a list of countries with checkboxes: Metadata for Asia, CN, CPT, Cambodia, China, Indonesia, Japan, Korea, Laos, Malaysia, Papua New Guinea, Philippines, Thailand, and Viet Nam. Below the list, there is a "Keyword" search field with a dropdown menu set to "AND", and "Search" and "Clear" buttons. A "MAP" button is located on the map area. The bottom of the browser window shows the Windows taskbar with several open applications: "3 Windows Exp...", "Program and rep...", "MetadataProject...", "CCOP_Metadata...", and "Geological Meta...". The system tray shows the time as 1:37 AM and the date as 1/31/2006. The bottom left corner of the slide features the CCOP logo, which is the Committee for Geospatial Information and Data.

Query Results



Map thumbnail

AIST:G-INDEX [Geological Information Index in Southeast Asia] - Query result - - Windows Intern...

http://riodb02.ibase.aist.go.jp/GeoMetaData/MetaAsia/queryresult.jsp?geomlist=3659:cp581,

No.	Filename	Information	Link
	china.xml	<p>01Metadata file identifier : H5007 Huangpi 02Title in English Translation (Full) : H5007 Huangpi Quadrangle of 1:200,000-scale Digital Geological Map Database 03Edition : Published on Mar. 5, 2003. 04Series name : Digital Geological Map 1:200,000, China 05Reference date : 20030305 06Responsible party organization name : Development and Research Center, China Geological Survey 07Postal address : No.31 Xueyuan Road, Haidian District 08City : Beijing 09Postal Code : 100083 10Country : CN 12Electronic mail address : metadata@mail.cgs.gov.cn 13Voice telephone : 86-010-82329117 14Fax number : 86-010-82329126 15West bounding coordinate : 114 16East bounding coordinate : 115 17North bounding coordinate : 31.333333 18South bounding coordinate : 30.666667 19Geographic extent name : Huangpi 20Resolution level (Map scale) : 200000 21Access constraints : No restriction of access 22Use constraints : The copyright of this database is legally owned by the China Geological Survey 23Spatial reference system (Description) : Geographic Coordinates System 24Distribution data format name (like Shape, Raster, DXF, etc.) : MAPGIS format 25Distribution media : CD, Printed map 26Language of metadata code : en 27Metadata character code set (ASCII) : ASCII 28Metadata date : 20030602</p>	

Internet | Protected Mode: On 100%



Search by Keywords – ‘China’

The screenshot shows a Windows Internet Explorer browser window displaying the search results page for the Geological Metadata Clearinghouse. The browser's address bar shows the URL: <http://riodb02.ibase.aist.go.jp/GeoMetaData/MetaAsia/gxmlresult.jspx>. The page title is "AIST:G-INDEX [Geological Information Index in Southeast Asia] - result".

The website header includes the AIST logo (National Institute of Advanced Industrial Science and Technology) and the title "Geological Metadata Clearinghouse". Navigation links include "AIST > GSJ > Metadata" and "Help: HOME".

The main content area displays the search results for the keyword "China". The search results are as follows:

Result of search (Files / Records)

Select database: Metadata for Asia

Show 20 [Re-search](#) [Back to search by text](#)

1 to 2 / 2 results

No.	Country	Number	Show records	Metadata	Link	Download
1	thailand.xml	1				
2	china.xml	1402				

Navigation: [First](#) 1

Done Internet | Protected Mode: On 100%



◆ Result of Search(List of Geometry)

Filename:china.xml / Metadata for Asia

Show

1 to 20 / 1402 results

No.	Information	Link
1	01Metadata file identifier : Anhui province	
2	01Metadata file identifier : Hong Kong Quadrangle	
3	01Metadata file identifier : I44 B 002001 Gaer county	 
4	01Metadata file identifier : K4506 Jimusaer county 02Title in English Translation (Full) : K4506 Jimusaer county Quadrangle of 1:200,000-scale Digital Geological Map Database 03Edition : Published on Mar. 5, 2003. 04Series name : Digital Geological Map 1:200,000, China 05Reference date : 20030305 06Responsible party organization name : Development and Research Center, China Geological Survey 07Postal address : No.31 Xueyuan Road, Haidian District 08City : Beijing 09Postal Code : 100083 10Country : CN 12Electronic mail address : metadata@mail.cgs.gov.cn 13Voice telephone : 86-010-82329117 14Fax number : 86-010-82329126 15West bounding coordinate : 89 16East bounding coordinate : 90	





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

CCOP Metadata Project Phase II

- ▶ Extension of Metadata for Geological Maps
- ▶ 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



Expected Output

- ▶ CCOP Metadata Standard on Geological Information
- ▶ CCOP Metadata Management System –updating and retrieving data
- ▶ Trained personnel in metadata management



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
- ▶ Collected inputs from Working Group on codelists
- ▶ Draft Standard circulated for comments

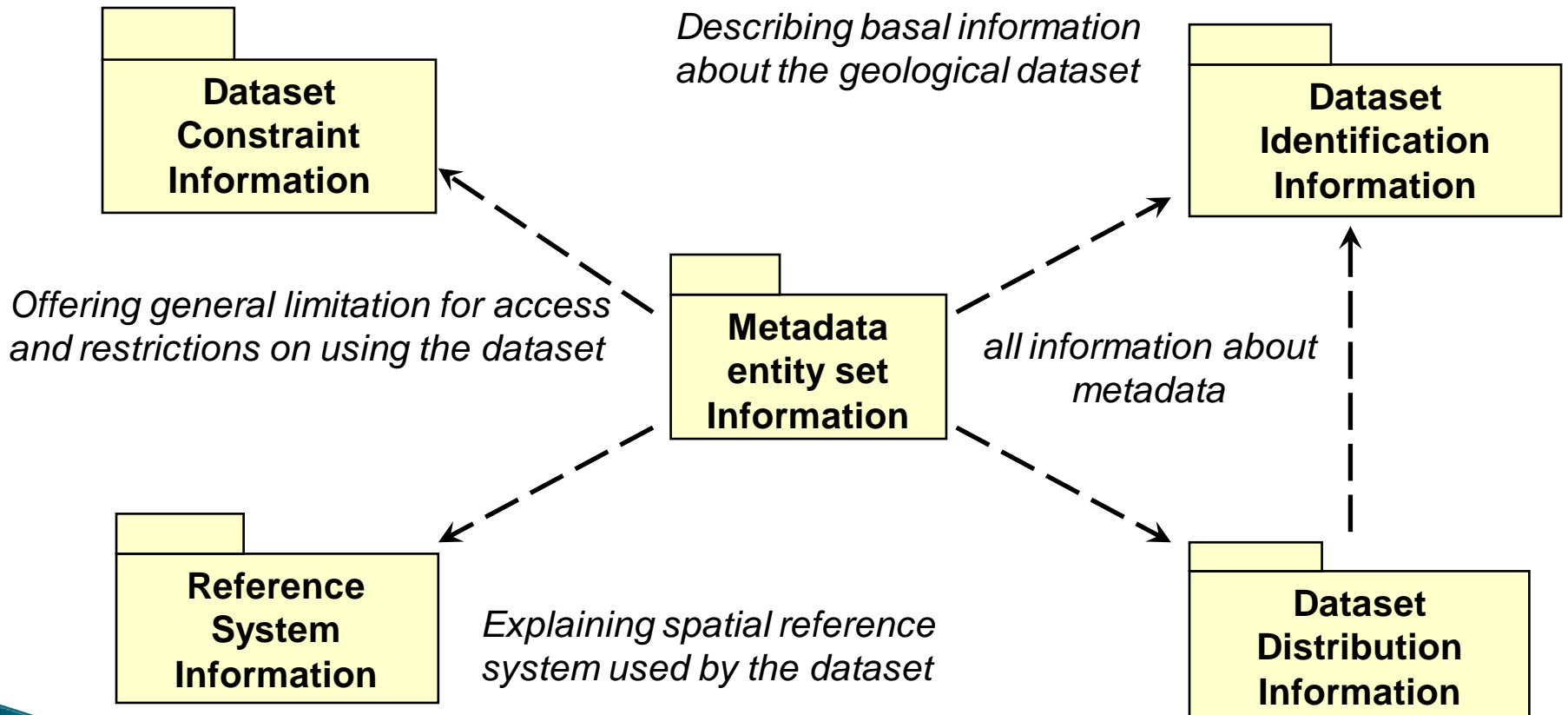




CCOP Metadata Project Phase II – First Workshop
18 – 20 March 2008, Haikou, China

CCOP Metadata Standard for Geological Information

The conceptual structure diagram of geological information metadata



CCOP Metadata Standard for Geological Information

Workplan for 2009

Activities	Schedule
To finalize and publish the CCOP Metadata Standard for Geological Information	April – May 2009
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 Natural Gas Resources

- ▶ Commenced in July 2008 under EPPM
- ▶ To set up an easily accessible metadata on natural gas resources of the CCOP Countries for knowledge sharing & preservation on natural gas resource exploration, exploitation and environmental impact mitigation



Metadata on Natural Gas Resources

Expected Output

1. Trained technical staff and metadata working group formed
2. Developed the specification of contents and description of metadata framework for geoscience for CCOP based on ISO 19115 & other appropriate international
3. Developed the specific elements for a CCOP Natural Gas meta database & Populated with natural gas information
4. Developed the management system software for metadata for CCOP TS and MC & user guide for Natural Gas
5. Cooperation among countries in the region is strengthened to help establish stability in the region



Metadata on Natural Gas Resources

Progress

- ▶ Working Group formed
 - TOR developed
- ▶ Workshop – requirement analysis (W1)



CCOP Metadata Projects

Progress Table (System Development)

Tasks / Activities	Metadata on Geologic Maps	Metadata on Geological Information	Metadata on Natural Gas Resources
Metadata Standard	28-items based on ISO19115	40+ items based on ISO19115 & CGS standard	To be identified
Metadata System	Done – Metadata Clearinghouse (Entry done by manager, at GSJ/AIST)	To be developed (2009)	To be developed
Training	Not done with the revised system	To be done (2009)	To be done
Launching & deployment to CCOPTS & MC	Installed at GSJ/AIST server	To be done (2009)	To be done



CCOP Metadata Projects

Recommendations – System Development

- ▶ To develop an integrated metadata system to include the metadata on geologic maps, geological information & natural gas resources
- ▶ To build on the existing CCOP Metadata Clearinghouse if possible
- ▶ To provide technical support to countries with national metadata system (if needed) – importing their data to the CCOP metadata system automatically
- ▶ To use Open-Source Software in system development
- ▶ To consider multi-lingual features for the system – user interface and at least on keywords used (to make use of the Asian Multilingual Thesaurus for Geoscience)
- ▶ To consider linkage with the SANGIS Bibliographic database
- ▶ To consider publication of retrieval system in CD (with data) at a particular point in time.
- ▶ To consider linkage to the data itself, in particular for the non-confidential data available for the public





Thank you...

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CCOP Technical Secretariat
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