

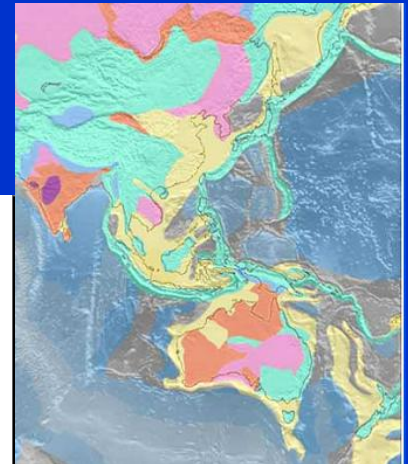
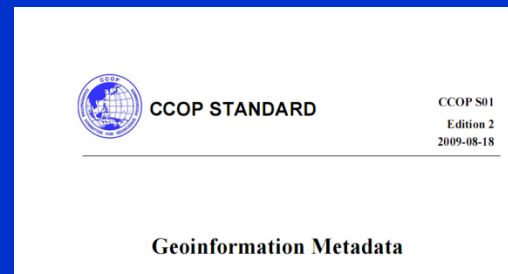
An Overview to the CCOP Geoinformation Metadata System GIMS



- What is a GIMS? How is GIMS structured?
- Why we need a GIMS?
- Who will use/benefit from the GIMS?
- Where we are now?

Phnom Penh, Cambodia
13-14 Mar 2012

- 1 CCOP Metadata Standard of Geoinformation
- 2 CCOP Metadata System Software GIMS
- 3 Benefits and Suggestion



CCOP GEOINFORMATION METADATA STANDARD S01

Edition 2 published in Sep.2009

(1) SCOPE

(2) TERMS AND DEFINITIONS

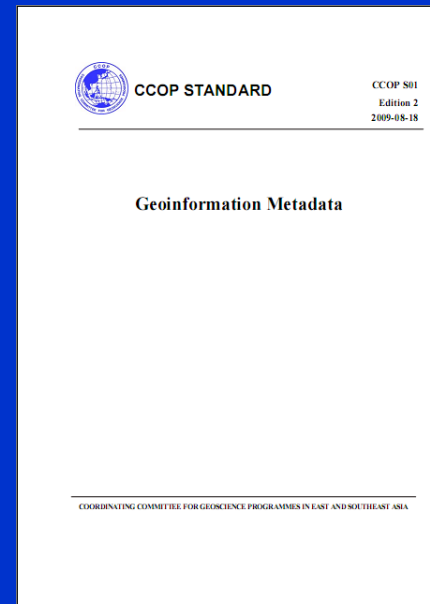
- Dataset
- Metadata
- Metadata element
- Metadata section

(3) METADATA STRUCTURE AND CONTENT

- Metadata structure
- Metadata contents
- Data Dictionary

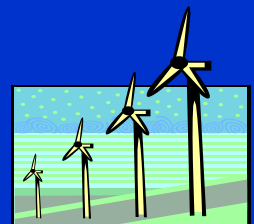
DATA DICTIONARY : 5 TABLES

ANNEX : 7 CODELISTS



(1) SCOPE

- This standard has defined the schema required for description of geoinformation and provides information about the identification, quality, contents, spatial reference information, and the distribution of geological information.
- This standard is applicable to the description, dataset information publication, and network interchanges of the geological datasets dominated by various spatial data and the non-spatial information datasets and can also be referenced in the metadata collection and the metadata database construction.
- **Applicable to the publication and interchange of spatial and non-spatial geological information covering geological maps, minerals, groundwater, geo-hazard, oil and gas, coal, geothermal, coastal zone, geophysics, geochemistry, drilling, geo-archives, etc.**



(2) TERMS AND DEFINITIONS

A. Dataset

Identifiable collection of data.

Collection of data can be either a database or a part of the database.

B. Metadata

Data about data.

They describe the related information about the data, including the contents, coverages, quality, status, management, owner, and the distribution.

C. Metadata element

Discrete unit of metadata.

Metadata elements are collected and described in tables called metadata dictionary.

D. Metadata section/ entity

Set of metadata elements describing the same aspect of a dataset.

Metadata section can be either a single section or an aggregation of one or more sections and elements.

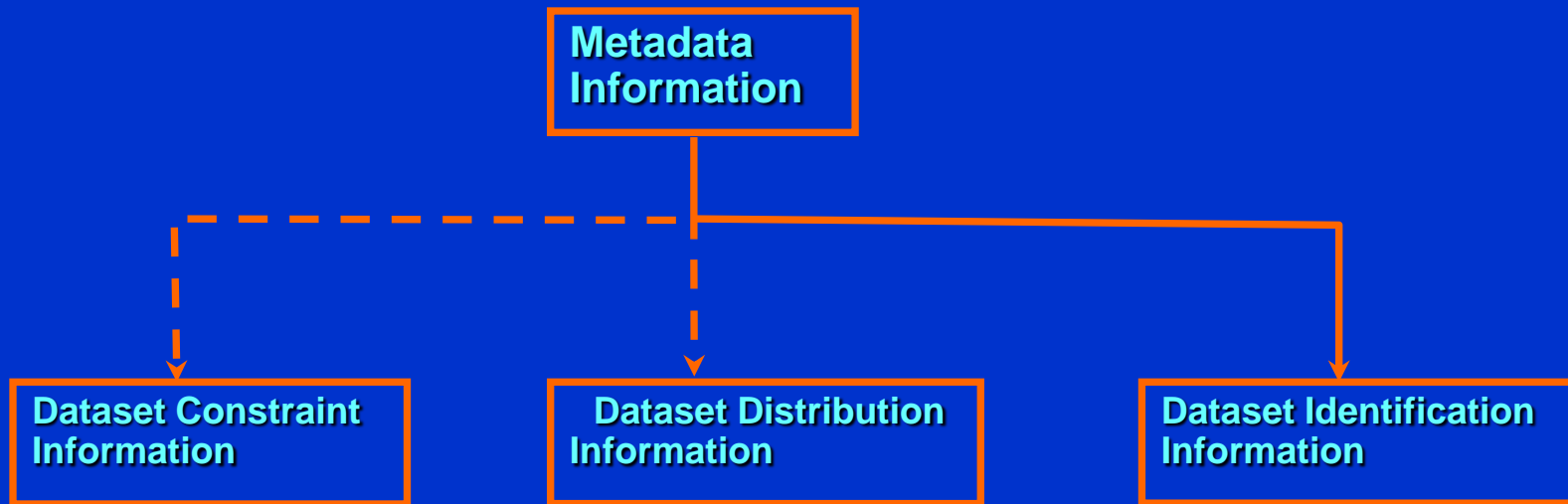
(3) METADATA STRUCTURE AND CONTENT

A. Metadata structure

Fig.1 describes the structure of geoinformation metadata.

Geoinformation metadata comprises of 4 sections:

- One mandatory section
- Two optional sections
- A common class named ResponsibleParty.



The structure diagram of geoinformation metadata

B. Metadata contents

- **Metadata Information**

Metadata information section describes the whole metadata information of geoinformation, and is represented by the mandatory section MD_Metadata. It comprises of the following metadata sections and elements: Mandatory section, Optional section, Mandatory elements, Optional elements

- **Dataset Identification Information**

Identification information is the basal one of geo-dataset, and is represented by MD_Identification section which is a mandatory section.

- **Dataset Constraint Information**

Constraint Information describing general limitation for access and restrictions on using the dataset. It is an optional section.

- **Dataset Distribution Information**

Dataset distribution information describing dataset distributor and data-obtaining method. It is an optional section.

CCOP Geoinformation Metadata Standard *Sections and Elements*

Section	Total	Mandatory	Conditional	Optional
Metadata information (MD_Metadata)	6	2+1		3
Dataset identification information (MD_Identification)	23	7	9	7
Dataset constraint Information (MD_Constraint)	2	1		1
Dataset distribution Information (MD_Distribution)	4	3		1
<i>Responsible Party Information (ResponsibleParty)</i>	10	1		9
SUM	45	15		

○ Metadata Information

It describes the whole metadata information of geoinformation, and comprises of the following sections and elements:

Mandatory section

MD_ Identification

Optional section

RS_Constraint

MD_Distribution

Mandatory elements

metadataTitle

metadataStamp

Optional elements

contact (refer to a common class *ResponsibleParty*)



○ Dataset Identification Information

It's the basal one of geo-dataset, and is represented by MD_Identification. It is an aggregation of the following elements:

Mandatory elements:

title

dateRelease

language ☆

abstract

dataRepresentationType

topicCategory

pointOfcontact

7 Ms

Conditional elements:

spatialResolution

eastBoundLongitude

westBoundLongitude

southBoundLongitude

northBoundLongitude

geographicIdentification

browseGraphic

coordinateSystemType

referenceSystemName



9 Cs

Optional elements:

subtile

dateCreate

edition

seriesName

characterSet

keyWords

projection

7 Os



○ Dataset Constraint Information

It describes general limitation for access and restrictions on using the dataset. It is an optional section.

Mandatory elements:

useConstraint

Optional elements:

accessConstraint

○ Dataset Distribution Information

It describes dataset distributor and data-obtaining method.

Mandatory elements:

distributorContact

mediaName

dataFormatName

Optional element:

onlineSource

○ *ResponsibleParty*

Mandatory elements

electricMailAddress

mm@xx.yy.zz

Optional element:

individualName

organizationName

phone

fax

deliveryPoint

city

country ☆

postCode

onlineResource

C Data Dictionary : 5 TABLES

- Table 1 to 5 have offered a data dictionary that describes the details of geoinformation metadata sections, classes and elements with names, short names, definitions, obligation/condition, maximum occurrence, types and domain.
- They together with the metadata codelists in Annex have comprised of a complete definition of geoinformation metadata of CCOP.



DATA DICTIONARY: 4 Data Fields

- Element and section names
Element name is the sole marker of metadata element.
- Short names
Except for the codelists, each metadata element has a unique short name in the entire standard.
- Definitions
Definition offers accurate description of metadata entities and metadata elements.
- Obligation/Condition
This is a descriptor indicating whether a metadata section or metadata element shall always be documented in the metadata or sometimes be documented (i.e. contains value(s)). This descriptor may have the following values: **M (mandatory)**, **C (conditional)**, or **O (optional)**.

Data dictionary tables

Table 1

Table 1. Metadata information (MD_Metadata)

No.	Section	Name / Role name	Short name	Definition	Obligation/ Condition	Maximum occurrence	Type	Domain
1	MD_Metadata		Metadata	Root section which defines metadata about dataset or data resources	M	1	Class	1.1-1.6
1.1		metadataTitle	mdTitle	Name of metadata	M	1	String	Free Text
1.2		dataStamp	mdDataSt	Date that the metadata was created	M	1	Date	YYYYMMDD(i.e. YearMonthDay)
1.3		<i>Role name:</i> identificationInfo	dataIdInfo	Basic information about the resource(s) to which the metadata applies	M	1	Class	MD_Identification
1.4		<i>Role name:</i> constraintsInfo	constInfo	Offering general limitation for access and restrictions on using the dataset	O	1	Class	MD_Constraint
1.5		<i>Role name:</i> distributionInfo	distribution	Describing dataset distributor and data-obtaining method	O	N	Class	MD_Distribution
1.6		contact	mdContact	Party/person responsible for the metadata information	O	N	Common Class	ResponsibleParty

Table 2

Table 2. Dataset identification information (MD_Identification)

No.	Section	Element name	Short Name	Definition	Obligation/ Condition	Maximum occurrence	Type	Domain
2	MD_Identification		Id	Describing basal information about the geological dataset	M	1		2.1-2.23
2.1		title	title	Title or name of the dataset	M	1	String	Free Text
2.2		subtitle	subtitle	An alternative title or name of the dataset to describe the dataset	O	1	String	Free Text
2.3		dateCreation	dateCreat	Date of dataset creation	O	1	Date	YYYYMMDD
2.4		dateRelease	dateReles	Date of dataset release	M	1	Date	YYYYMMDD
2.5		edition	edition	Version of dataset	O	1	String	Free Text
2.6		seriesName	seriName	Name of the dataset series	O	1	String	Free Text
2.7		language	dataLan	Language(s) used within the dataset	M	N	String	LanguageCode (CodeList) A.1
2.8		characterSet	dataChar	Full name of the character coding standard used for the dataset	O	1	Class	CharacterSetCode (CodeList) A.2
2.9		abstract	idAbs	Brief narrative summary of the content of the resource(s), including purpose, source and data quality description.	M	1	String	Free Text
2.10		keyWords	kwords	Keywords used to describe the dataset	O	N	String	Free Text
2.11		dataRepresentationType	dataRpType	The expressing way of spatial data of geological information	M	N	Class	RepresentationTypeCode (CodeList)A.3
2.12		spatialResolution	dataScale	A parameter describing the spatial data density of a dataset, such as scaleDenominator, and average ground sampling intervals.	C/Spatial data is applied	N	String	Free Text
2.13		topicCategory	tpCat	Geological category codes of the main theme(s) of the dataset	M	N	Class	GeoTopicCategoryCode (CodeList) A.4
2.14		pointOfContact	idPoC	A person or party related with the dataset	M	N	Common Class	ResponsibleParty

Table 3 and 4

Table 3. Dataset constraint Information (MD_Constraint)

No.	Section	Element name	Short name	Definition	Obligation/ Condition	Maximum occurrence	Type	Domain
3	MD_Constraint		Consts	Restriction on the access and use of a resource or metadata	O	N		3.1-3.2
3.1		accessConstraint	accessConsts	Assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the resource or metadata	O	N	Class	RestrictionCode(CodeList) A.5
3.2		useConstraint	useConsts	Assure the protection of privacy or intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata	M	N	Class	RestrictionCode(CodeList) A.5

Table 4. Dataset distribution information (MD_Distribution)

No.	Section	Element name	Short name	Definition	Obligation/ Condition	Maximum occurrence	Type	Domain
4	MD_Distribution		Consts	Restriction on the access and use of a resource or metadata	O	N		4.1-4.4
4.1		onlineResource	onLineSrc	Information about online resources from which the resource can be obtained; addresses that offer online access in the model of URL address.	O	N	Class	URL (IETF RFC1738 IETF RFC2056)
4.2		distributorContact	distorCont	Distributor of geological information dataset or data resources	M	N	Common Class	ResponsibleParty
4.3		mediaName	medName	Medium name of dataset offered by the distributor	M	1	Class	MediumNameCode (CodeList) A.7
4.4		dataFormatName	fomatName	Name and version of data transfer format(s) offered by the dataset distributor	M	1	String	Free Text

Table 5

Table 5. Responsible Party Information (ResponsibleParty)

No.	Common Class	Element name	Short name	Definition	Obligation/Condition	Maximum occurrence	Type	Domain
5	ResponsibleParty		RespParty	Information about the person(s) and organizations associated with the dataset	Use obligation or condition from the referencing object	Use maximum occurrence from the referencing		5.1-5.10
5.1		individualName	rpIndName	Name and title of the responsible person, separated by a delimiter	C/ organisationName not documented	1	String	Free Text
5.2		organisationName	rpOrgName	Name of responsible party	C/ individualName not documented	1	String	Free Text
5.3		electronicMailAddress	eMailAddr	Public address of the electronic mailbox of the responsible organization or individual	M	N	String	Free Text
5.4		phone	cntPhone	Telephone numbers at which the organization or individual may be contacted	O	N	String	Plain text with arrangement of letters as "+" (international numbering plan prefix) ""(country code) "" (city code) ""(local number), for example, +86 10 58584305
5.5		facsimile	cntFaxNum	Fax numbers at which the organization or individual may be contacted	O	1	String	Free Text
5.6		deliveryPoint	cntDelPnt	Detail physical address at which the organization or individual may be contacted, including road name and room number	O	1	String	Free Text
5.7		city	city	city of the location (city name, county name)	O	1	String	Free Text
5.8		country	country	Country of the responsible party	O	1	Class	LanguageCode (CodeList) A.1
5.9		postCode	postCode	ZIP or other postal code	O	1	String	Free Text
5.10		onlineResource	cntOnlineRes	On-line information that can be used to contact the individual or organization	O	1	String	URL (IETF RFC1738 IETF RFC2056)

Annex: Geoinformation Metadata CodeList

A1 and A2

A.1 LanguageCode (based on ISO639. 2)

No.	English Name
	LanguageCode
1	KHM
2	CHI
3	IDN
4	JPN
5	KOR
6	MAY
7	MON
8	PAA
9	TGL
10	FIL
11	THA
12	VIE
13	ENG
14	POR
15	TET

A.2 CharacterSetCode

No.	English Names	Code	Definition
	CharacterSetCode	CharSetCd	Character coding standard
1	UTF8	004	8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
2	ISO-8859-1	006	GB/T 15273.1-1994 Information Process 8-bit single byte coded graphic character sets --Part 1: Latin alphabet No. 1
3	usASCII	025	United States ASCII code set (ISO 646 US)
4	BIG5	028	Traditional Chinese code set used in Taiwan, Hong Kong of China and other areas
5	GB2312	029	Simplified Chinese code set
6	Windows-874		Thai character set encoding for Windows (a standard should not be bounded with particular software.)
7	TIS 620	030	Thai Industrial Standards ,8-bits character set, a subset of ISO-IR-166, declared by Thai Industrial Standards Institute (TISI)
8	ISO-8859-11	016	ISO/IEC8859-11 Information Process 8-bit single byte coded graphic character sets --Part 11: Latin alphabet /Thai character
9	eucKR	027	Korean character set
10	TCVN3-ABC		8 bit character code set (Vietnam)
11	TCVN 6909:2001		Unicode font (Vietnam)
12	eucJP	024	Japanese code set used on UNIX based machine (TBC)
13	shiftJIS	023	Japanese code set used on MS-DOS based machine (TBC)
14	others	099	Other characters not defined above

A. 3 RepresentationTypeCode

No.	English Names	Code	Definition
	RepresentationTypeCode	RepTypCode	Types of spatial data
1	Vector	001	Vector data is used to represent geographic data
2	Grid	002	Grid data is used to represent geographic data
3	Text	003	Textual data is used to represent geographic data
4	TIN	004	Use triangulated irregular network to represent geographic data
5	Stereo model	005	Multidimensional representation of data
6	Video	006	Represent data in video
7	Matrix	007	Matrix data
8	Table	008	Tabular data is used to represent geographic data
9	Raster	009	Scanned and digital images
10	Others	099	Other types not defined above

No.	1st Category Name	2nd Category Name	Definition and illustration	code
1	Geography		The study of the Earth and its lands, features, Geochemistry Geochemistry includes isotope geochemistry, biogeochemistry, organic geochemistry, regional, environmental and exploration geochemistry, such as rock geochemical exploration, soil geochemical exploration, stream sediment geochemical exploration, atmospheric	1000 2500
4	Geo-Resources		Studies and activities of geologic resource of the Earth	4000
		Mineral resource	Minerals of the Earth, including mineral geology, mineral exploration, mineral exploitation, etc.	4100
		Groundwater	Groundwater of the Earth in aquifers, including groundwater exploration, groundwater production, etc.	4200
		Oil and Gas	It includes petroleum geology, oil and gas exploration, exploitation or production, oil and gas field, etc.	4300
		Coalbed methane	It includes coalbed methane geology, coalbed methane exploration, coalbed methane production, etc.	4400
		Gas hydrate	It includes both natural and experimental gas hydrate, gas hydrate geology, gas hydrate exploration, gas hydrate exploitation, etc.	4500
		Coal	It include coal geology, coal exploration, coal production, etc.	4600
		Oil shale	It include oil shale geology, oil shale exploration, oil shale production, etc.	4700
		Geothermal	It is related to energy and may refer to heat that comes from within the Earth. It includes geothermal geology, geothermal exploration, geothermal exploitation, geothermal tourism, etc.	4800
6	Others		A region is defined by UNESCO as a territory encompassing one or more sites of scientific importance, not only for geological reasons but also by virtue of its archaeological, ecological or cultural value. Can not be classified above	6000



A. 5 **RestrictionCode**

No.	English Names	Code	Definition
	RestrictionCode	Restrict	Limitation(s) placed upon the access or use of the data
1	copyright	001	Exclusive right to the publication, production, or sale of the rights to a literary, dramatic, musical, or artistic work, or to the use of a commercial print or label, granted by law for a specified period of time to an author, composer, artist, distributor
2	patent	002	Government has granted exclusive right to make, sell, use or license an invention or discovery
3	patentPending	003	Produced or sold information awaiting a patent
		004	A name, symbol, or other device identifying a product, officially registered and legally

A. 6 **CoordinateSystemTypeCode**

No.	English Names	Code	Definition
	CoordinateSystemTypeCode	CoorSysType	
1	Cartesian	001	A n -dimensional (n stands for an arbitrary positive integer) coordinate system that consists of n number axes which perpendicularly cut each other at the origin
2	Geodetic	002	A spherical coordinates of a ground point location expressed in longitudinal and latitudinal degrees
3	Projected	003	Coordinate systems formed through different projection methods
4	Polar	004	A coordinate system that describes the location of a point through the distance between the point and the pole as well as the extensional direction
5	Gravity Related	005	A norm for gravity survey and related calculation
6	WGS 84	4326	World wide GPS coordinate system.

non-tangible property

No.	English Names	Code	Definition
	MediumNameCode	MediumNameCd	Name of the medium
1	cdRom	001	Read-only optical disk
2	dvd	002	Digital versatile disk, include rewritable disk
3	dvdRom	003	Digital versatile disk, read only
4	3halfinchFloppy	004	3,5 inch magnetic disk
5	7trackTape	006	7 track magnetic tape
6	9trackTape	007	9 track magnetic tape
7	3480CartridgeTape	008	3480 cartridge tape drive
8	3490 CartridgeTape	009	3490 cartridge tape drive
9	3590 CartridgeTape	010	3590 cartridge tape drive
10	4mm CartridgeTape	011	4mm magnetic tape
11	8mm CartridgeTape	012	8mm magnetic tape
12	1quarterInch CartridgeTape	013	0.25 inch magnetic tape
13	digitalLinearTape	014	Half inch cartridge streaming tape drive
14	onLine	015	Direct computer linkage
15	Satellite	016	Linkage through a satellite communication system
16	TelephoneLink	017	Communication through a telephone network
17	hardcopy	018	Pamphlet or leaflet giving descriptive information
18	harddisk	019	Hard disk
19	flashMemory	020	Flash disk
20	electronicMail	021	Offering data in e-mail mode
21	cdRewritable	022	Rewritable optical disk
22	blurayDisk	023	High-definition optical disk
23	portable hard disk	024	Portable Computer hard disk
24	U-disc/flash disc	025	Memory disk of small size
25	videoDigital	026	Digital video recording
26	others	099	Medium not listed

2 CCOP Metadata System Software GIMS

- (1) The Web based software **CCOP GIMS** was deployed in 2009 and installed at CCOP T/S server. . <http://www.ccop.org.th>
- (2) Hand on training workshop in Bangkok, Shanghai, Davao, Pattaya, Kuala Lumpur , *Phnom Penh...*

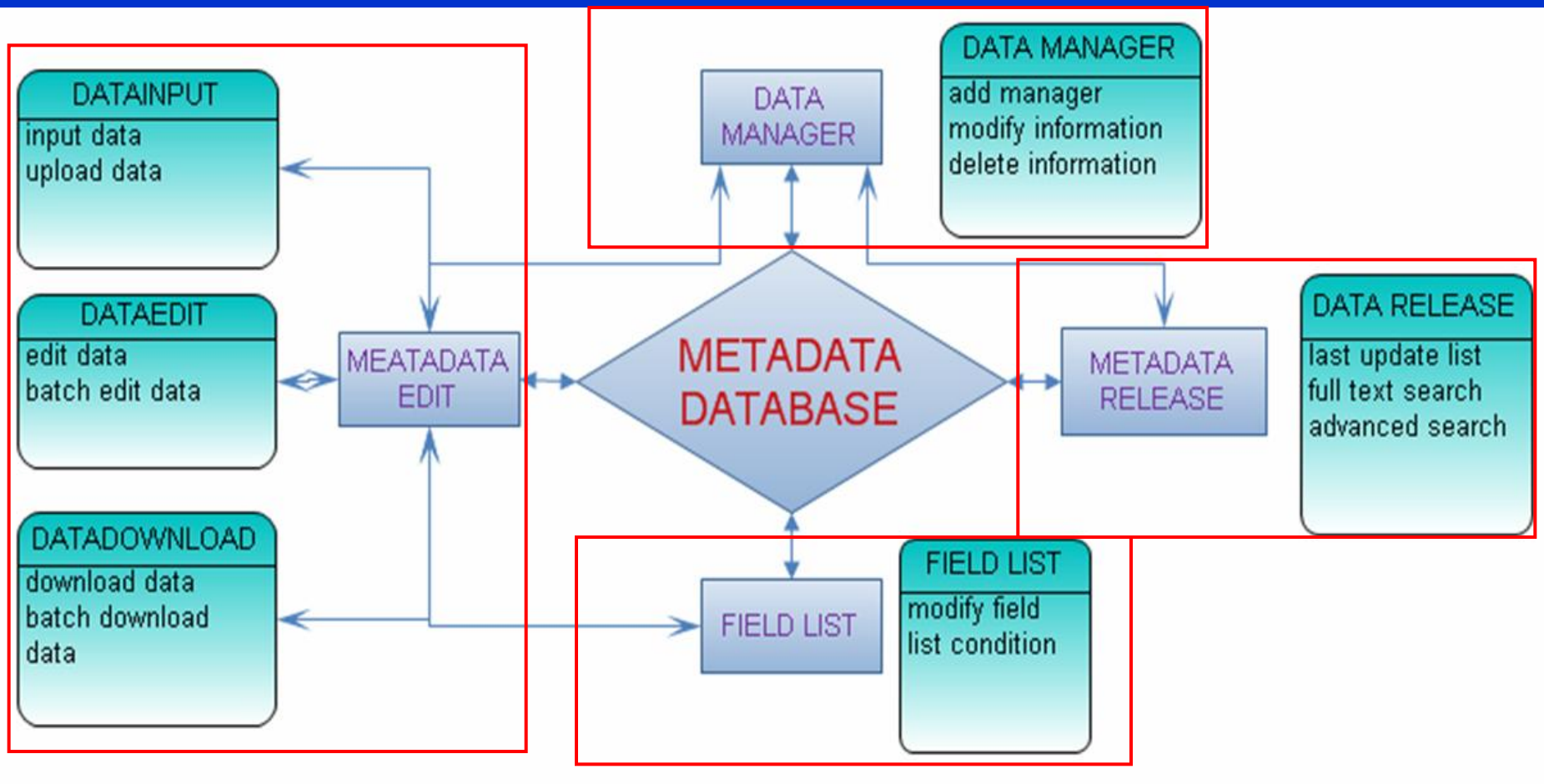
Software Name: **CCOP GIMS**



The screenshot displays the CCOPGIMS web application interface. At the top left, there is a logo and the text "CCOPGIMS". Below this, a navigation bar contains several links: "Last Updated", "Full Text Search", "Advanced Search", "Map Search", and "About". The main content area features the text "CCOPGIMS" in the center. Below this, there is a search form with the label "Search:" followed by a text input field. To the right of the input field is a link labeled "Advanced Search". Below the input field is a "Submit" button. At the bottom center of the page, there is a copyright notice: "©2010 - CopyRight".



Software structure



CCOPGIMS


topicCategory: 

Longitude: -

Bound:

Latitude: -

Country:

- 
- Cambodia**
- China
- Timor-Leste
- Indonesia
- Japan
- Malaysia
- Papua New Guinea
- Philippines
- Singapore
- Korea
- Thailand
- Vietnam

KeyWords:

geographicIdentification:

metadataTitle:

createTime: -

Search on Map

topicCategory:

Country:

KeyWords:

geographic
Identification:

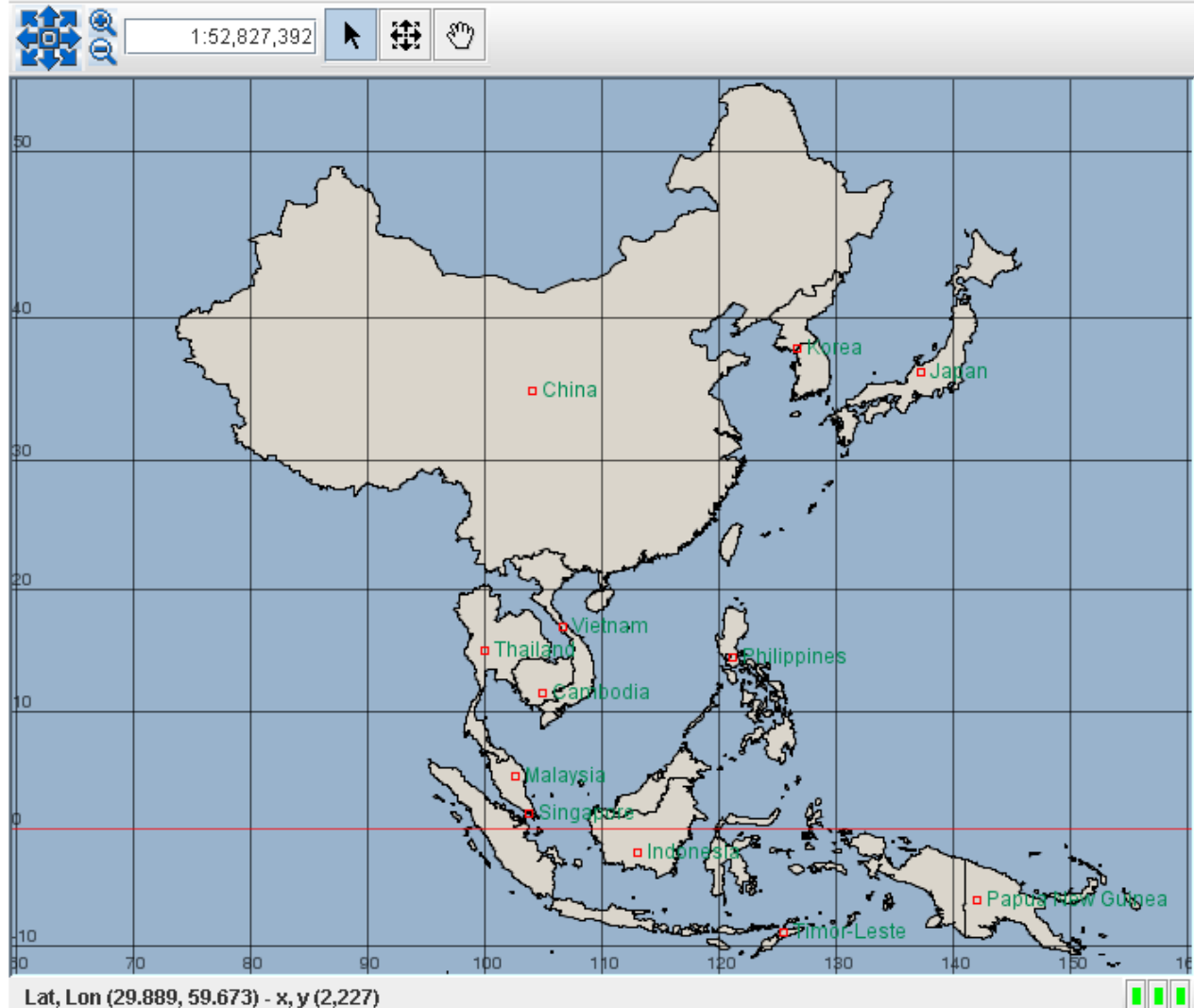
metadataTitle:

createTime:

Submit

Note: If the page can display map correctly, please click [here](#) to download the java runtime environment.

Updating...



Search: [Advanced Search](#)

Result List: 172 found

[K4826 Shalataoerhan](#)

base on Geological survey result.With AcrInfo and MapGIS Format,managed by GIS, viewed and queried with standard map sheet and attribute feature.25 geological layers with attribute data.Provide geological map products of 1:200,000 standard map sheet. K4826 Shalataoerhan K4826 Shalataoerhan Quadrangle of 1:200,000-scale Digital Geological Map Database 2002-10-09 2003-03-05 Geological Map Database Published on Mar. 5, 2003. Digital Geological Map 1:200,000 CHI BIG5 [Text View](#)

[K4826 Shalataoerhan](#)

base on Geological survey result.With AcrInfo and MapGIS Format,managed by GIS, viewed and queried with standard map sheet and attribute feature.25 geological layers with attribute data.Provide geological map products of 1:200,000 standard map sheet. K4826 Shalataoerhan K4826 Shalataoerhan Quadrangle of 1:200,000-scale Digital Geological Map Database 2002-10-09 2003-03-05 Geological Map Database Published on Mar. 5, 2003. Digital Geological Map 1:200,000 CHI BIG5

[K4928 Huhehaote city](#)

base on Geological survey result.With AcrInfo and MapGIS Format,managed by GIS, viewed and queried with standard map sheet and attribute feature.25 geological layers with attribute data.Provide geological map products of 1:200,000 standard map sheet. K4928 Huhehaote city K4928 Huhehaote city Quadrangle of 1:200,000-scale Digital Geological Map Database 2002-10-09 2003-03-05 Geological Map Database Published on Mar. 5, 2003. Digital Geological Map 1:200,000 CHI BIG5

[Facts 2009](#)

The publication provides a general overview of information regarding the petroleum sector. Petroleum Sector Facts of the Norwegian Petroleum Sector--2009 2009-06-05 UTF8 ... [Text View](#)

[K4825 Guaizihunan](#)

base on Geological survey result.With AcrInfo and MapGIS Format,managed by GIS, viewed and queried with standard map sheet and attribute feature.25 geological layers with attribute data.Provide geological map products of 1:200,000 standard map sheet. K4825 Guaizihunan K4825 Guaizihunan Quadrangle of 1:200,000-scale Digital Geological Map Database 2002-10-09 2003-03-05 Geological Map Database Published on Mar. 5, 2003. Digital Geological Map 1:200,000 CHI BIG5

Metadata - Windows Internet Explorer

http://ccop.cgs.cn/metaDetail.jsp?metDataID=3011&flag=0

Metadata

metadataTitle: K4826 Shalataoerhan

dataStamp: 2003-03-05

MD_Identification:

- title:** K4826 Shalataoerhan
- subtitle:** K4826 Shalataoerhan Quadrangle of 1:200,000-scale Digital Geological Map Database
- dateCreation:** 2002-10-09
- dateRelease:** 2003-03-05
- edition:** Published on Mar. 5, 2003.
- seriName:** Digital Geological Map 1:200,000
- language:** CHI
- characterSet:** BIG5
- abstract:** base on Geological survey result.With AcrInfo and MapGIS Format,managed by GIS, viewed and queried with standard map sheet and attribute feature.25 geological layers with attribute data.Provide geological map products of 1:200,000 standard map sheet.
- keyWords:** Geological Map Database

dataRepresentationType: Vector

spatialResolution: 200K

topicCategory: Regional geology

admin [Login out]

Management platform

- Modal
- Add mode
- View | Modify | Delete mode
- Metadata
- Import data
- Add metadata
- Data edit
- data Publishing
- Batch edit data
- Download data
- data Distribution
- update List
- Help text
- Data Manager
- Add New Data manager
- View | Modify | Delete data Manager
- Field
- Field List
- Refresh List
- COpyRight
- © mdis 2008-2010
- webmaster@mdis.com

topicCategory: Geography [Amend](#)

pointOfContact: [Add](#)

[Delete](#)

individualName: Name and title of the responsible person, separated by a delimiter [Amend](#)

Default Definition

admin [Login out]

Management platform

- Modal
- Add mode
- View | Modify | Delete mode
- Metadata
- Import data
- Add metadata
- Data edit
- data Publishing
- Batch edit data
- Download data
- data Distribution
- update List
- Help text
- Data Manager
- Add New Data manager
- View | Modify | Delete data Manager
- Field
- Field List
- Refresh List
- COpyRight
- © mdis 2008-2010
- webmaster@mdis.com

MD_Constraint: [delete](#)

accessConstraint: patent [Amend](#)

useConstraint: patent [Amend](#)

MD_Distribution: [delete](#)

[Add](#)

onlineResource:
Information about online resources from which the resource can be obtained; addresses that offer online access in the model of URL address.
[Amend](#)

distributorContact: [Add](#)

[Delete](#)

individualName: rpIndName [Amend](#)

organisationName: organisationName [Amend](#)

electronicMailAddress: electronicMailAddress [Amend](#)

phone: phone [Amend](#)

facsimile: facsimile [Amend](#)

deliveryPoint: Detail physical address at which the organization or individual may be contacted, including road name and room number [Amend](#)

city: city of the location (city name, county name) [Amend](#)

country: Country of the responsible party [Amend](#)

postCode: ZIP or other postal code [Amend](#)

onlineResource: On-line information that can be used to contact the individual or organization [Amend](#)

mediaName: cdRom [Amend](#)

dataFormatName:
Information about online resources from which the resource can be obtained; addresses that offer online access in the model of URL address.
[Amend](#)

[Amend](#)

admin [Login out] [Modify]

Management platform

- Modal
- Add mode
- View | Modify | Delete mode
- Metadata
- Import data**
- Add metadata
- Data edit
- data Publishing
- Batch edit data
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- data Distribution
- update List
- Help text
- Data Manager
- Add New Data manager
- View | Modify | Delete data Manager
- Field
- Field List
- Refresh List

COpyRight
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webmaster@mdis.com

Import data

Select Schema:	Select
Import Mode:	File
Import Number:	Directory
Select a file:	<input type="text"/> 浏览...

submit resets

选择文件

查找范围 (C): download

- Mapinfo10
- server
- 紫光输入法
- GoogleEarthPluginSetup
- googleupdatesetup
- QQ2009Beta2
- server
- SPlayerSetup
- 专家信息打印

文件名 (N): 打开 (O)

文件类型 (T): 所有文件 (*.*) 取消

This web based CCOP Geoinformation Metadata System (CCOP-GIMS) is developed and supported by China Geological Survey based on 'CCOP Geoinformation Metadata Standard-CCOP S01'.

Software design and programming is led by Dr. Zhang Minghua and Dr. Wang Chengxi in The Development Research Center of China Geological Survey.

Software test and comments are form experts in CCOP member countries , CCOP Technical Secretariat and CCOP- EPPM project. Main experts are Mr. Sieng Sotham and Mr. Vorakcheat Huot(Cambodia), Dr. Jiang Zuoqin, Dr. Zhang Zhenfang, Mr. Liu Liqun, Ms. Chen Fangli and Mr. Zhang Qinhe(China), Mr. Calvin Karo Karo Gurusinga, Mr. Hanafi Suroyo and Ms. Rina Wahyuningsih(Indonesia), Mr.Kazuaki Watanabe and Mr.Yuichiro Fusejima and Mr. Yoshiaki Sugawara(Japan),Mr. Young-Kwang Yeon, Dr. Seonghyung Jang and Dr. Jaehong Hwang (Korea), Ms. Brendawati Ismail and Mrs. Norzilah Jaffar(Malaysia), Mr. William Tau-Vali and Mr. John Arumba(Papua New Guinea), Ms. Czarina Morgia, Mr. Demujin Antiporda and Mr. Michael Santiago J. Luna(Philippines), Mr.Sompob Wongsomsak and Ms. Kanitta Danudom (Thailand), Mr. Le Tuan Anh, Mr.Hoang Hai Bui and Mr. Luu Quang Viet (Vietnam), Mr. Inpong Homsombath (Laos), Mr. U Toe Aung Kyaw(Myanmar), Dr.Hee-Young Chun, Dr. He Qingcheng, Ms. Marivic Pulvera Uzarraga and Mr. Simplicio Caluyong(CCOP Technical Secretariat).

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For more information, contact Ms. Marivic Pulvera Uzarraga at marivic@ccop.or.th and Dr. Zhang Minghua at zminghua@mail.cgs.gov.cn.

What is new

- Data manager_ Three level

- Superadministrator

- view\modify\delete\release **all** of the metadata,
Add \manage data manager & data loader.

- data manager**

- view\modify\delete\release own metadata , retrun metadata to data loader.

- Add \manage data loader.

- data loader**

- view\modify\delete\ own metadata, submit metadata to data manager.





A group photo of the metadata software Training Course in Malaysia, Jan.2010



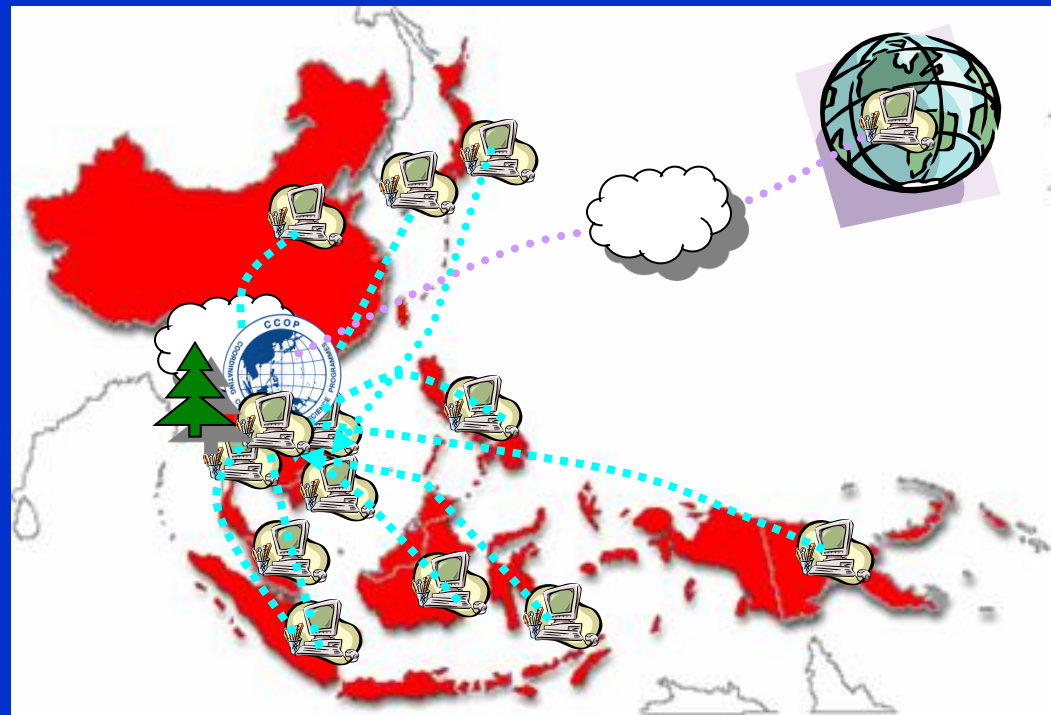


3 Benefits and Suggestion

- Geoinformation sharing amongst *CCOP Member countries*.
- The member country who use GIMS will benefit first in geoinformation sharing nationwide and worldwide.
- **CCOP Geoinformation sharing worldwide , such as with ASEAN... for bilateral and International cooperation...**

Answer *What, Who, Where, When, Why and How.....*

Data title
Abstract
Quality
Constrains
Contact
.....

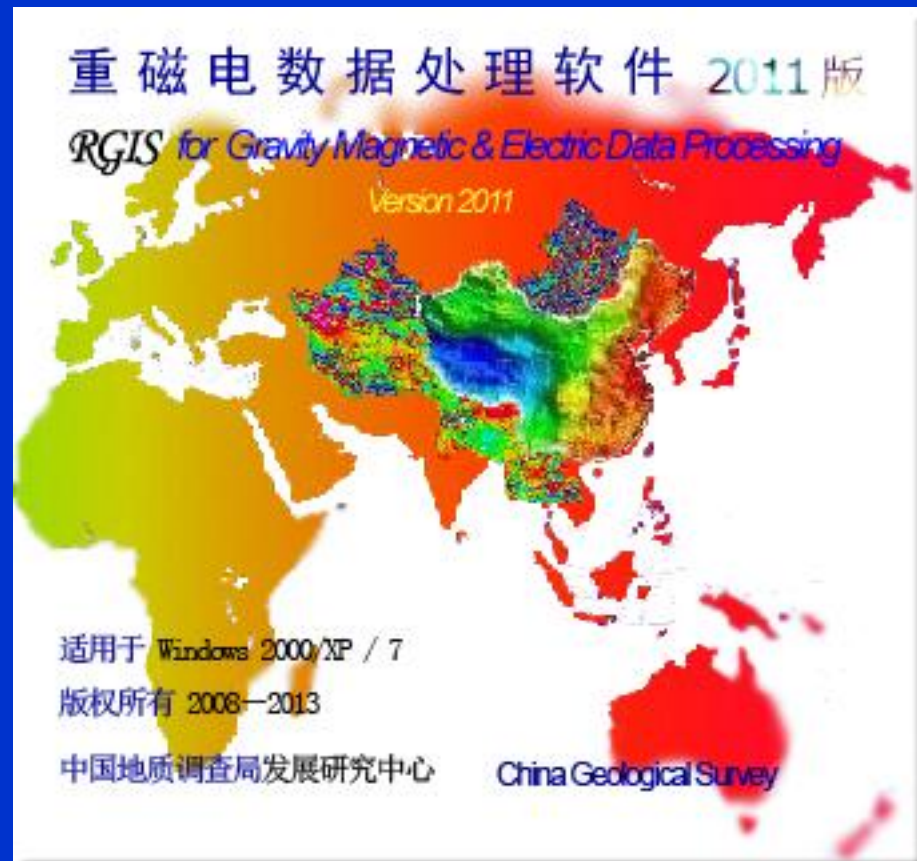


Suggestion: *Future activity*

- Hand on training on request to the member country by the CGS project group .
And/or , translated into local language by the member country...
- Web based metadata software system be look after by CCOP TS, and necessary extension making to the standard to meet the need of any other CCOP projects by the working group...
and ,Software upgrading and training will be continually supported by the CGS group...
- ***A New project on geo-data processing abilities launched this year supported by CGS...***

CCOP-ASEAN 物化探数据管理与处理软件

Phase I Geophysical Geochemical Data Processing



THANK YOU !



Dr. Zhang Minghua
China Geological Survey
zminghua@mail.cgs.gov.cn

History of CCOP Metadata Standard

2006

CCOP-CGS-GSJ/AIST

Seminar on Geoinformation Technology and 4th Workshop of CCOP Metadata Working Group
(September 5-7, 2006, Guangzhou, China)



Guangzhou, China 2006



Summary on 28-item standard

Requirement Analysis for an entire coverage metadata standard

Advanced IT application and products for geological survey and exploration

CCOP metadata project phase II

2007

CGS submitted a proposal to support phase II CCOP metadata standard work and was approved in 43rd annual meeting at Daejeon, Korea, 2006.

English version of Chinese *Geo-information Metadata Standard* sent to most of the CCOP member countries as reference.

CGS launched a project early 2007 to fund CCOP metadata phase II



GEOLOGICAL TRADE STANDARD OF PEOPLE'S REPUBLIC OF CHINA

DD2006—05

CONTENTS

FOREWORDS	2
1 SCOPE	2
2 CONFORMANCE	2
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3 NORMATIVE REFERENCES	2
4 TERMS AND DEFINITIONS	2
4.1 Dataset	2
4.2 Dataset series	2

GEOLOGICAL INFORMATION

Table 3. Metadata Information (MD_Metadatas)

No.	Section/Entry	English Name	Short Name	Definition	Obligation/Condition	Maximum Occurrence	Type	Domain
1.1	MD_Metadatas	MD_Metadatas	Metadatas	Root entry which defines metadatas about dataset or data resources	M	1	Class	1.1.1-1.1.11
1.1.1		metadataTitle	mdTitle	Name of metadata	O	1	String	FreeText
1.1.2		dateStamp	mdDateSt	Date that the metadatas was created	M	1	Date	CCYYMMDD(GBT 1945-1994)
1.1.3		language	mdLang	Language used for documenting metadatas	O	N	String	"Chinese", "English", FreeText
1.1.4		characterSet	mdChar	Full name of the character coding standard used for the metadatas set	O	1	Class	MD_CharacterSetCode (CodeList A.1)
1.1.5		metadataStandardName	mdStandardName	Name of the metadata standard (including profile name) used	O	1	String	FreeText
1.1.6		metadataStandardVersion	mdStandardVersion	Version (year(s)) of the metadata standard used	O	1	String	FreeText
1.1.7		contact	mdContact	Party/person responsible for the metadata information	M	N	Class	CI_ResponsibilityParty
1.1.8		identifierInfo	mdIdentInfo	Basic information about the resource(s) to which the metadatas applies	M	1	Class	MD_Identifier
1.1.9		dataQualityInfo	mdDataQuality	Provides overall assessment of quality of a resource(s)	M	1	Class	DQ_DataQuality
1.1.10		referenceSystemInfo	mdReferenceSystem	Description of the spatial and temporal reference systems used in the dataset	O	1	Class	RS_ReferenceSystem
1.1.11		contentInfo	mdContent	Provides information about the feature catalogue and describes the coverage and image data characteristics	M	N	Class	MD_ContentDescription
1.1.12		distributionInfo	mdDistribution	Provides information about the distributor of and options for obtaining the resource(s)	O	1	Class	MD_Distribution

CHINA GEOLOGICAL

December

CCOP 28 Item Standard For geological maps

<i>Cataloguing information 1</i>	
Metadata file identifier	
Title in English Translation (Full)	
Edition	
Series name	
Reference date	
<i>Responsible party information</i>	
Responsible party organization name	
Postal address	
City	
Postal Code	
Country	
On-line resource linkage	
Electronic mail address	
Voice telephone	
Fax number	
<i>Location information</i>	
West bounding coordinate (Generally Lat-Lon decimal degree)	
East bounding coordinate	
North bounding coordinate	
South bounding coordinate	
Geographic extent name	
Resolution level (Map scale)	
<i>Constraint information</i>	
Access constraints	
Use constraints	
<i>Cataloguing information 2</i>	
Spatial reference system (Description)	
Distribution data format name (like Shape, Raster, DXF, etc.)	
Distribution media	
Language of metadata code	
Metadata character code set (ASCII)	
Metadata date	



2008

CCOP Metadata Project Phase II – First Workshop 17–21 March 2008, Hainan, China

CCOP Metadata standard General Draft



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

FINAL DRAFT INTERNATIONAL STANDARD ISO/FDIS 19115

Geographic information — Metadata

Information géographique — Métadonnées

ISO19115

Please see the administrative notes on page ii-1

Reference number: ISO/FDIS 19115:2003(E)

© ISO 2003

Cataloguing information 1	
Metadata file identifier	
Title in English Translation (Full)	
Edition	
Series name	
Reference date	
Responsible party information	
Responsible party organization name	
Postal address	
City	
Postal Code	
Country	
On-line resource linkage	
Electronic mail address	
Voice telephone	
Fax number	
Location information	
West bounding coordinate (Generally Lat-Lon decimal degree)	
East bounding coordinate	
North bounding coordinate	
South bounding coordinate	
Geographic extent name	
Responsible party information	
Access constraints	
Cataloguing information 2	
Spatial reference system (Description)	
Distribution data format name (file Shape, Raster, DXF, etc.)	
Distribution media	
Language of metadata code	
Metadata character code set (ASCII)	
Metadata date	

CCOP 28 Element geological maps

ISO TC 46/SC 4 N515
Date: 2003-02-26
ISO 15836:2003(E)
ISO TC 46/SC 4
Secretariat: ANSI

Dublin Core

Information and documentation — The Dublin Core metadata element set

Information et documentation — Éléments fondamentaux de métadonnées appelés

Document type: International Standard
Document subtype:
Document stage: (60) Publication
Document language: E

GB

GEOLOGICAL TRADE STANDARD OF PEOPLE'S REPUBLIC OF CHINA

GB/T ××××—2005

CGS Standard

GEOLOGICAL INFORMATION-METADATA-STANDARD

(FD CSS) ××××
(Jan. 16 2005)

Issued by China Geological Survey ×××××××××× Implemented

CHINA GEOLOGICAL SURVEY, PEOPLE'S REPUBLIC OF CHINA



ICS

CCOP STANDARD

CCOP GI/T 2008

GEOLOGICAL INFORMATION-METADATA STANDARD

CCOP Metadata Draft

(Mar. 18 2008)

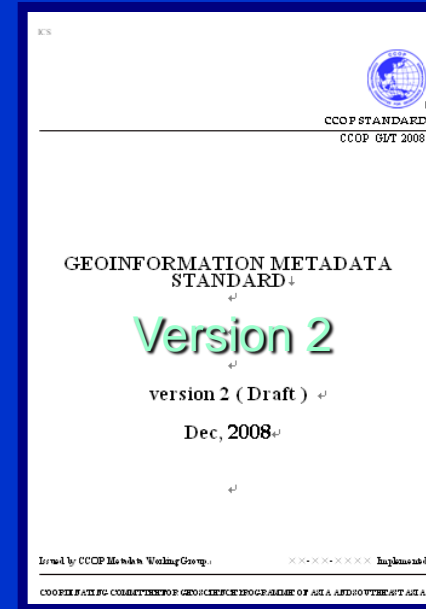
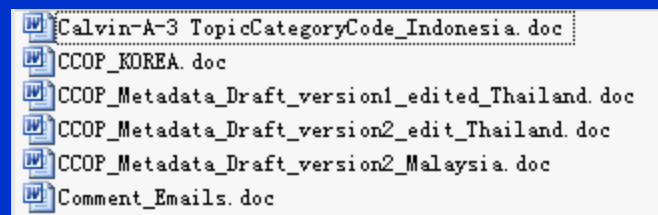
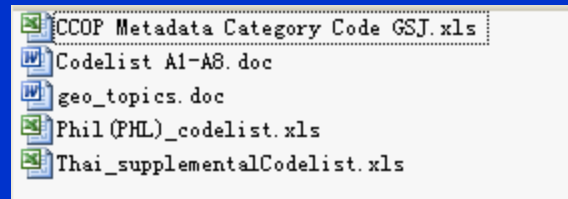
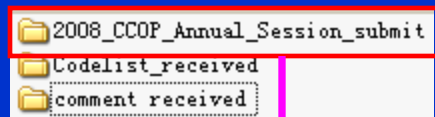
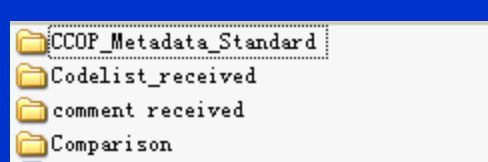
Issued by CCOP Metadata Working Group ×××××××××× Implemented



COORDINATING COMMITTEE FOR GEOSCIENCE PROGRAMME OF FAO AND SOUTHEAST ASIA


5 packages
6 code-list
56 elements

2 circulations since Mar.,2008

2008



Simple version  CCOP_Metadata_Draft_version1.doc 

Complex version  CCOP_Metadata_Draft_version2.doc

- *Mr. xxx, Cambodia*
- *Dr. Zhang Minghua, Dr. Jiang Zuoqin and Dr. Zhang Zhenfang, China*
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- *Mr. Young-Kwang Yeon, Korea*
- *Ms. Brendawati Ismail, Malaysia*
- *Mr. William Tau-Vali, Papua New Guinea*
- *Ms. Czarina Morgia, Philippines*
- *Mr. Sompob Wongsomsak, Thailand*
- *Mr. Le Tuan Anh, Vietnam*
- *Ms. Marivic P. Uzarraga, Dr. Hee-Young Chun and Mr. Simplicio Caluyong, CCOP TS.*





Workshop on CCOP Metadata Standard & Requirement Analysis for
the CCOP Natural Gas Database Metadata
in Cooperation with
CCOP Metadata Project Phase II
Shanghai, China, 1 -3 April 2009

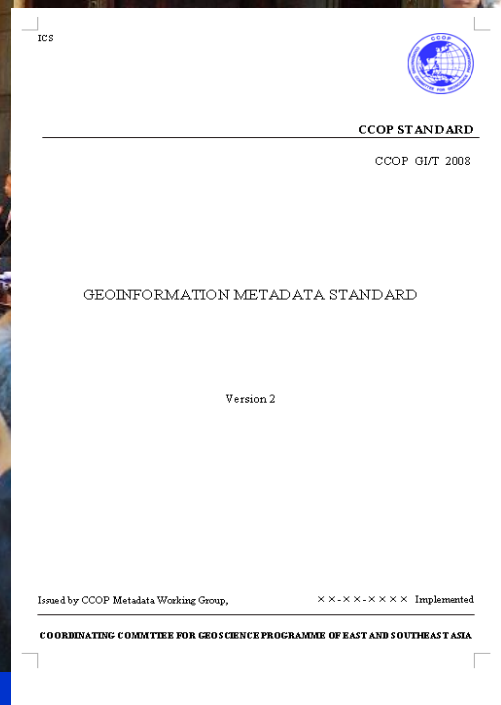


2009

CCOP Metada Standard
Version 2 final



Second workshop



CCOP G/T-2008

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5 packages
7 code-list
45 elements

Issued by CCOP Metadata Working Group, ×××××××××× Implemented

COORDINATING COMMITTEE FOR GEOSCIENCE PROGRAMME OF EAST AND SOUTHEAST ASIA

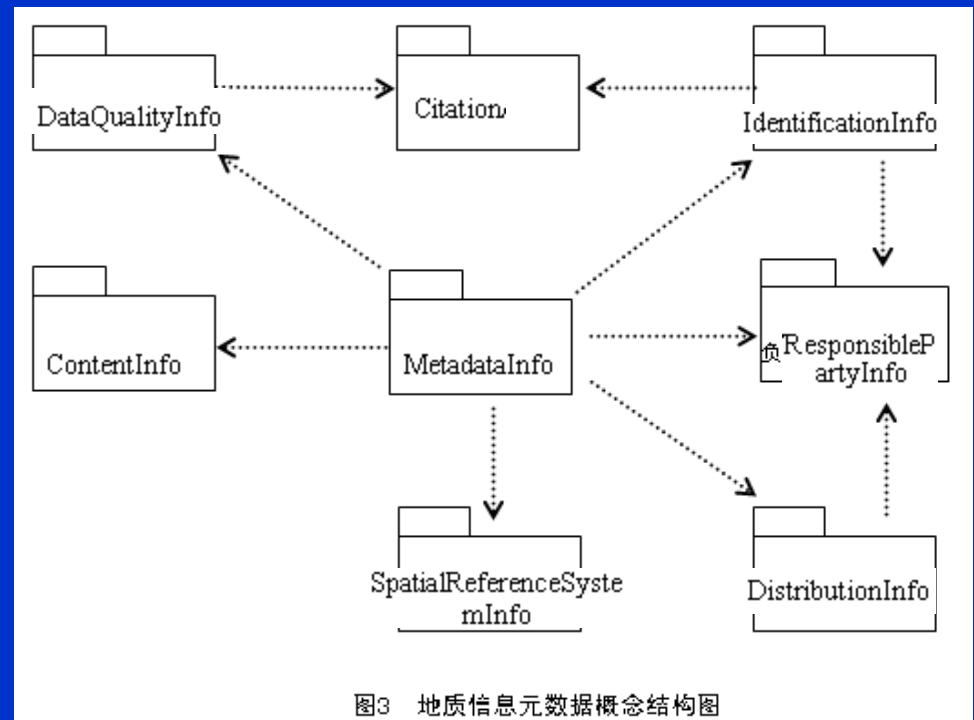
CGS issued and released *CGS Geoinformation Metadata Standard (DD2006-05)* in 2006

For geoinformation collection and release Since 2005.

With coverage of

geological mapping, minerals, groundwater, geo-hazard, oil and gas, coal, geothermal, coastal zone, geophysics, geochemistry, drilling, geo-archives, etc.

8 entities
88 elements
(46 mandatory, 19 conditional)
1 annex.



ISO 19115 Organization

Metadata

Language
Character Set
Hierarchy
Standard Name,
Version
Date

- Metadata Contact**
- Data Identification Info**
- Content Information
- Distribution Info
- Spatial Representation
- Data Quality Info
- Reference System
- Metadata Maintenance
- Metadata Constraints
- Application Schema Info
- Portrayal Catalog Info
- Extension Information

Responsible Party

Online Source

Citation

Required
Conditional or Optional

Table 3 — Core metadata for geographic datasets

- MD_Identification (M)
- MD_Constraints
- DQ_DataQuality
- MD_MaintenanceInformation
- MD_SpatialRepresentation
- MD_ReferenceSystem
- MD_ContentInformation
- MD_PortrayalCatalogueReference
- MD_Distribution
- MD_MetadataExtensionInformation
- MD_ApplicationSchemaInformation

Dataset title (M) (MD_Metadata > MD_DataIdentification.citation > CI_Citation.title)	Spatial representation type (O) (MD_Metadata > MD_DataIdentification.spatialRepresentationType)
Dataset reference date (M) (MD_Metadata > MD_DataIdentification.citation > CI_Citation.date)	Reference system (O) (MD_Metadata > MD_ReferenceSystem)
Dataset responsible party (O) (MD_Metadata > MD_DataIdentification.pointOfContact > CI_ResponsibleParty)	Lineage (O) (MD_Metadata > MD_Lineage)
Geographic location of the dataset (by four coordinates or by geographic identifier) (C) (MD_Metadata > MD_DataIdentification.extent > EX_Extent > EX_GeographicExtent > EX_GeographicBoundingBox or EX_GeographicDescription)	On-line resource (O) (MD_Metadata > MD_DigitalTransferOptions)
Dataset language (M) (MD_Metadata > MD_DataIdentification.language)	Metadata character set (C) (MD_Metadata.characterSet)
Dataset character set (C) (MD_Metadata > MD_DataIdentification.characterSet)	Metadata point of contact (M) (MD_Metadata.contact > CI_ResponsibleParty)
Dataset topic category (M) (MD_Metadata > MD_DataIdentification.topicCategory)	Metadata date stamp (M) (MD_Metadata.dateStamp)
Spatial resolution of the dataset (O) (MD_Metadata > MD_DataIdentification.spatialResolution > MD_Resolution.equivalentScale or MD_Resolution.distance)	
Abstract describing the dataset (M) (MD_Metadata > MD_DataIdentification.abstract)	
Distribution format (O) (MD_Metadata > MD_Distribution > MD_Format.name and MD_Format.version)	
Additional extent information for the dataset (vertical and temporal) (O) (MD_Metadata > MD_DataIdentification.extent > EX_Extent > EX_TemporalExtent or EX_VerticalExtent)	

ISO TC 46/SC 4 N515
Date: 2003-02-28
ISO 15836:2003(E)
ISO TC 46/SC 4
Secretariat: ANSI

Dublin Core

Information and documentation — The Dublin Core metadata element set
Information et documentation — Éléments fondamentaux de métadonnées appelés

15 Elements

Document type: International Standard
Document subtype:
Document stage: (IS) Publication
Document language: E