

世界数据中心中国中心
地球物理学科中心

Data-sharing Work and Database of
World Data Center for Geophysics, Beijing

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1. HISTORY

1988 : Established

1988-1993: Rescued the historical magnetogram of Sheshan
past, and make microfilms

1994-1999: digitalized some data during 1940's

2000-2002: Setup database on Internet,
BMT geomagnetic observatory

2003 MT data

2004 Heat Flow

2005 Gravity, and hardware upgrad

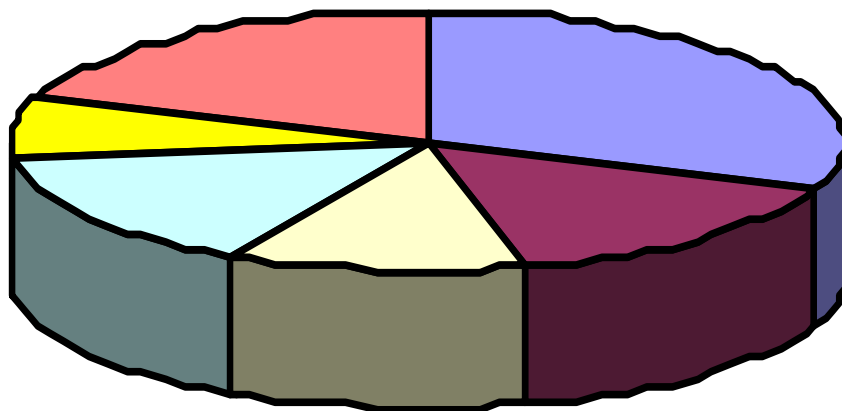
2. Data holding

- Geomagnetism : 20GB, Magnetograms:40,000sheets
- ionospherical physics : Ionograms:78500pages,
film: 50000m,
Digital CD: 2.5GB,
pen chats: 13000m;
- Magnetosherical physics: VLF/ELF sfrics, Tape: 3000,
- Upper atmosphere phys.: wind field: 500MB
- Gravity: Chat: 50pages; Digitalized: 300MB
- Magneto-telluric data in Tibetan plateau & Inner Mongolia: 约300MB
- Deep Seismic sounding data in China : 4000MB

Delivering of Geomagnetic Chart

- User: more than 380
- Sets: 806 :
 - 1980.0 678 Set,
 - 1990.0 48 set.
 - 2000.0 80 set.

Distribution of Geomag. Chart Users

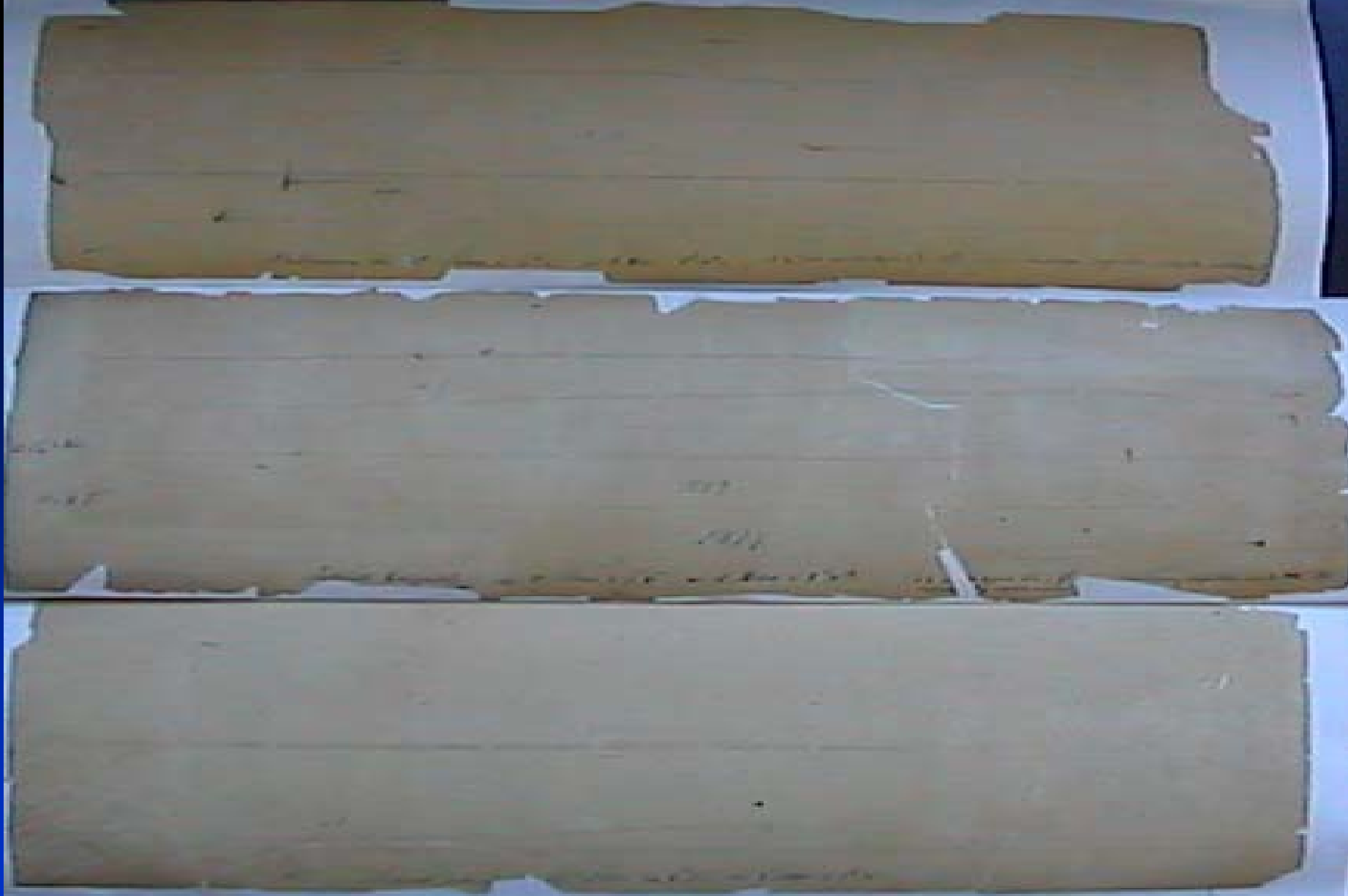


- Industry
- Research
- Education
- Government
- Aerospace
- Other

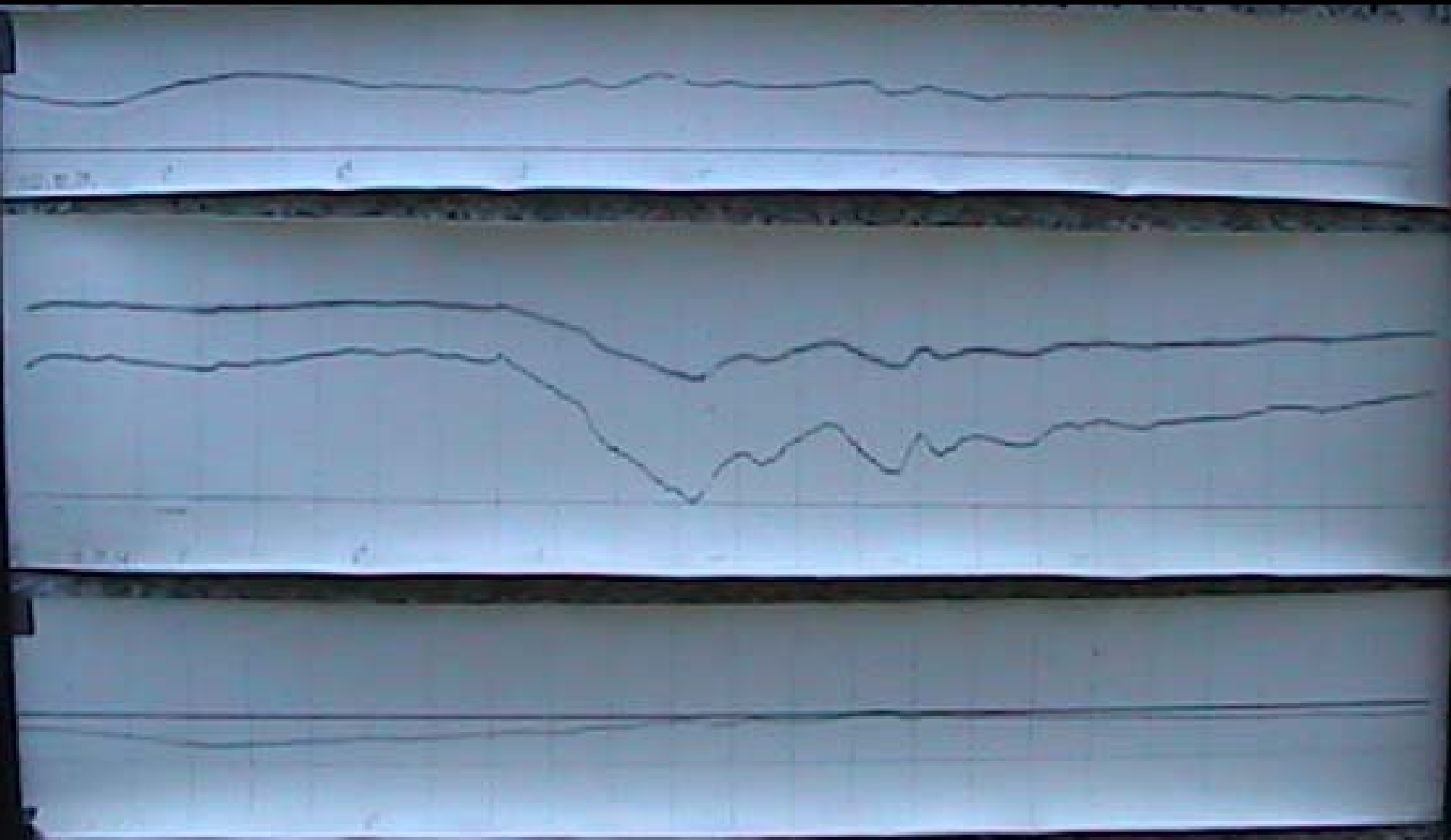
1.2 Historical Magnetogram for D,H,Z

Observatory	Periods	sheet
Urumuiqi, Xinjiang	Sept., 1960—Feb., 1961	
Sheshan, Shanghai	1874—1962	35,378
Kunming, Yunnan	May 27, 1961—Apr. 5, 1962	
Lasa, Tibet	1957—1974, 1977	

急需扫描抢救的佘山地磁台磁照图



Magnetogram in Jan. 1, 1877, Sheshan, Oldest one
in China saved by WDC for Geophysics, Beijing



Magnetogram in 1962, Shashan

Magnetogram. Sheshan



2007-3-5 1877-Zi-ka-Wei-1907, 1908-Lu-Ka-Pin-1933

中国及邻域航磁、海磁异常图



ULF/ELF/VLF Waves

- 源： 1. 地磁 ULF;
- 2. 天电 Whistler and ELF/VLF wave data

(1) Mohe Observatory

Measurements: magnetic mode, 500Hz to 15KHz

Data period: 1978-1988, magnetic tape.

(2) Beijing Observatory 北京 怀柔

Measurements: magnetic mode, 500Hz to 15KHz

Data period: 1978-1988, disks.

(3) Zhongshan Station, Antarctica 南极中山

Geographic latitude 69.37° , longitude 76.36° .

Geomagnetic latitude -77.1° , longitude 121.3°

Measurements: magnetic mode, 500Hz to 15KHz..

Data period: 1992-1998, magnetic tapes ,

Ionospheric Physics data

- (1) Ionogram
 - 1956~1957, 8500pages
 - 1957~1990, 50000 meters
- (2) Digital ionogram: Wuhan, Hubei,
 - 1991~1998, , 70000pages (DGS256)
 - 1999~now, CD, 2500MB
- (3) TEC data according to Faraday rotation of beacon from ETS—II satellites, Wuhan, Hubei,
- (4) TEC data according to GPS observation,
 - Wuhan, Hubei, 1990–now, CD
 - Beijing; Sanya, Hainan; Mohe, Heilongjian: 2004–now, CD
- (5) TEC data according to HF Doppler observation of NTC of China in Shannxi

数据名称	起止时间	存储方式	数据量
Ionogram: Wuhan, Hubei	1956—1957	written	8500p
	1957—1990	film	50000m
	1991—1998	printed	70000p
	1999—2003	CD	MB
三站高频多普勒	1984—1990	模拟磁带	110000米
三站高频多普勒	1984—1990	数字磁带	17500兆
三站高频多普勒	1991—1995	数字打印	105000页
单站高频多普勒TEC data according to HF Doppler observation of NTC of China in Shannxi	1996—1999	数字打印	29000页
多普勒+到达角	2000—2003	数字光盘记录	11000兆
TEC data according to Faraday rotation of beacon from ETS—II satellites, Wuhan, Hubei	1980—1984	笔尖记录	13000m
	1980—1990	数字化记录	1.2 MB
三站信标TEC	1985—1990	笔尖记录	45000米
单站GPS TEC	1994—1998	数字光盘记录	700兆
TEC data according to GPS observation, Wuhan, Hubei, 1990—now, Beijing; Sanya, Hainan; Mohe, Heilongjian	1999—2001	CD	1500兆
全球GPS TEC	1995—2003	数字记录	1400000兆
长波观测	1981—1999	笔尖记录	9000米
长波观测	1990—1999	数字化记录	100兆
激光雷达数据	1996—2003	数字记录	350兆
流星雷达数据	2002—2003	数字记录	3250兆

Checking the historical data of Ionospheric physics in Wuhan before transporting them to Beijing

- Left is Prof. WAN, the Director of Lab. Of Space Electromagnetic Environment, PI of the Observatory Network for Solar-Geophysics, CAS

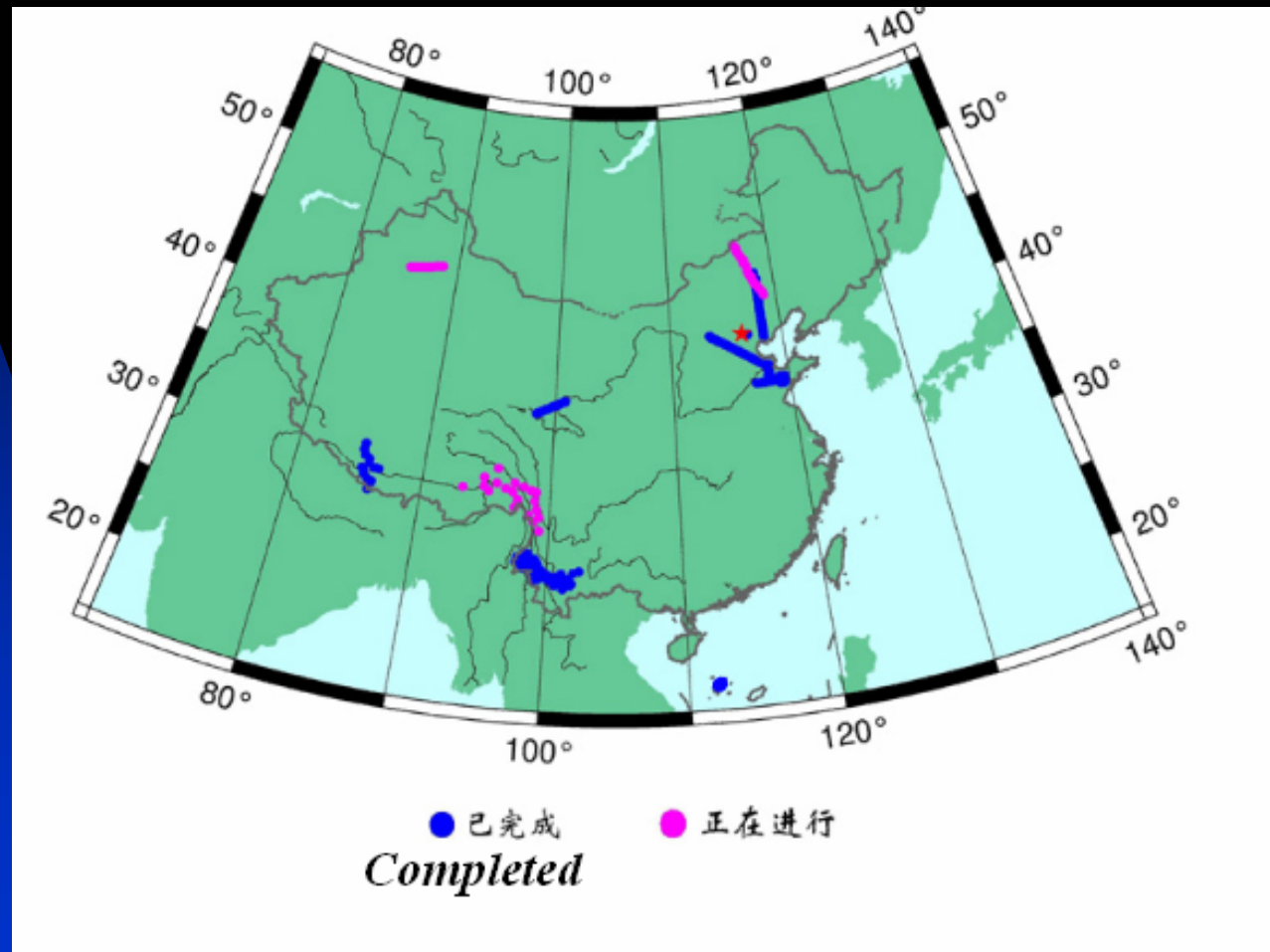


Seismic Deep Sounding data -----Wide Band Seismic Array,

Raw data
4000TB

Preliminary data
40TB

Standard data 4TB



3. Data available through the website

- 1. hourly values: Sheshan Geomagnetic Observatory
Measurements: D, H, and Z.
Data period: 1930'
- 2. Magnetogram: Sheshan Geomagnetic Observatory: 1962
- 3. Magnetotelluric data in Tibetan plateau and Inner Mongolia,
- 4. Heat flow data in the China continental area
- 4. Heat flow data in the China continental area,
- 800 points
- 5. Deep telluric detection Data:

Web-databases of WDC for Geophysics, Beijing

■ Main website

◆ Sub-site on Aroenomy:

- ★ Database of upper atmosphere phys.
- ★ Database of ionospherical physics
 - Mirror of website on ISR,

◆ Sub-site on Geomagnetism

◆ Sub-site on Solid Geophys.

- ★ Magnetotelluric Database
- ★ Deep Seismic Sounding Database,
 - Mobil Wideband Seismic Array

Mirror of website on solid geophysics of NGDC of USA

◆ Database of geothermal

Data available through the web home page

- 1. Geomagnetic min. values
- (1) Beijing Mingtomb Observatory

Measurements: D, H, and Z minute values and hourly values.

Data period: 1996-2005.

- (2) Zhongshan Station, Antarctica

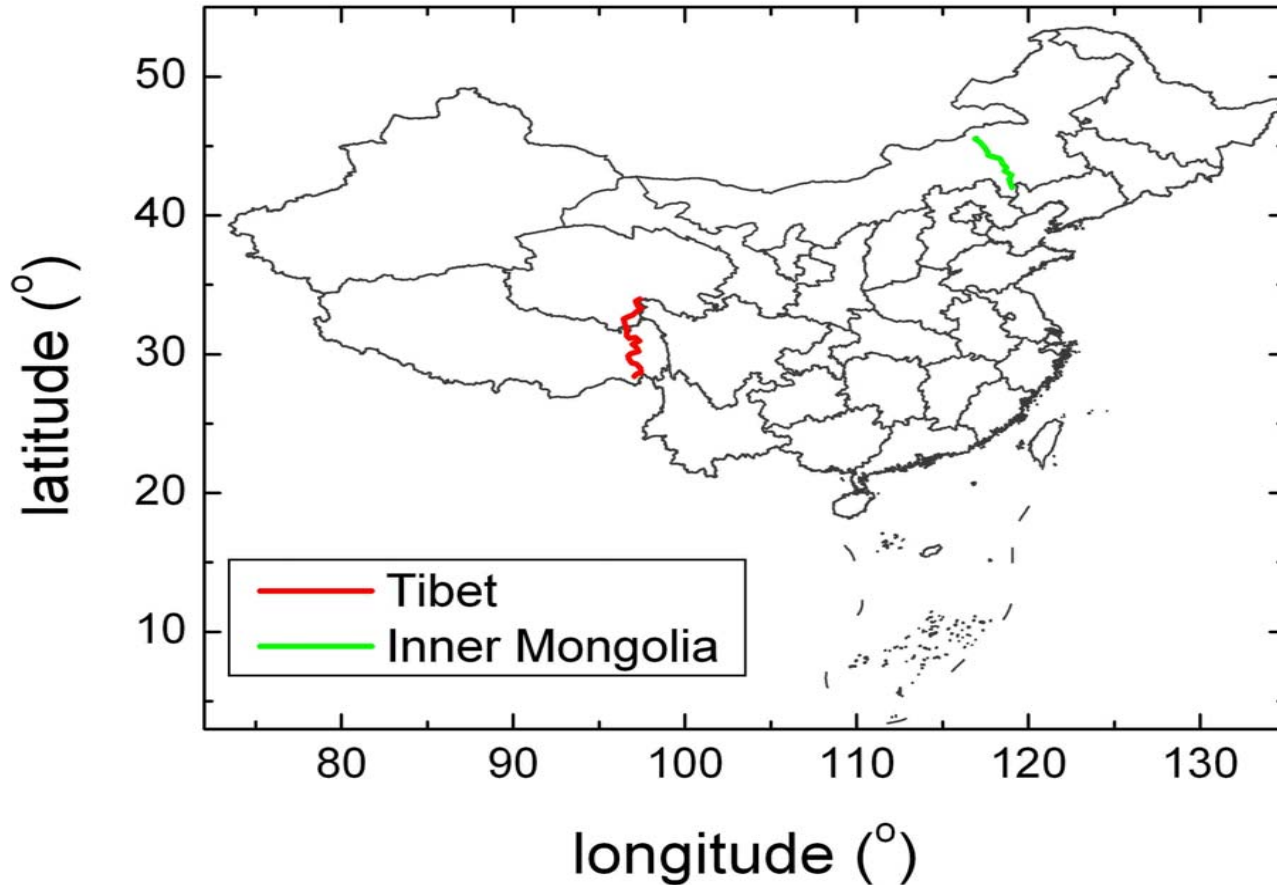
Measurements: D, H, and Z minute values and hourly values.

Data period: 2002

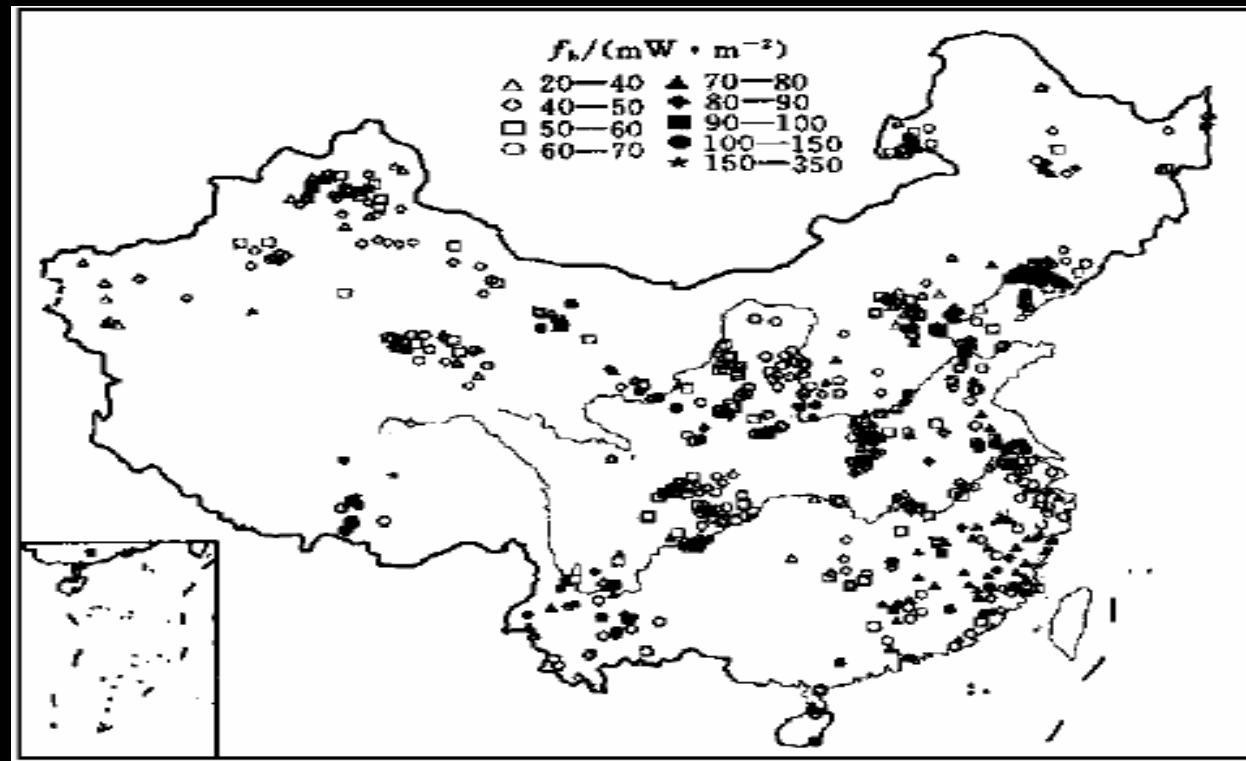
- (3)
2007-3-5

Deep telluric sounding Data:

Magnetotelluric data in Tibetan plateau and Inner Mongolia,



Heat flow data in the China continental area,



Geographic distribution of Heat flow in the China continental area,
800 points

Air gravity anomaly of China and its adjacent regions (1991)

中国及邻域空间重力异常图



Satellite gravity anomaly of China and its adjacent regions 1991

中国及邻域卫星重力异常图



4. Webpage and Web database:

	Page	Database	Server
1998:	html		
2002:	ASP	SyBase	IBM @220
2003:	PHP	MySQL	
2004:	JSP	SQLServer	
2005:			+ Xon 3.0G X2
2006:		+ Oracle	+ Dell

Web Site: hardware

- +RaidTec SNAZ NAS SCSI Disk: 73GBX4

■	CPU	RAM	HardDisk	
■	2002: 1G PIII 1X1	128MB	80GB	IBM X220
■	2005: 3G Xeon 2X2	1GB	80GB	
■	2006:			+Dell

Internet address of our website: WDC for Geophysics, Beijing:

◆ Domain Name:

1996–2003 <http://space.c-geos.ac.cn/wdc>

1996–2002 <http://www.wdcgp.ac.cn> (CN only)

2003–2005 <http://www.wdcbj-gp.net>

2004– <http://gp.wdc.cn> (CN, EN)

2006– <http://wdc.geophys.cn> (CN, EN)

<http://data.geophys.cn> (CN now)

Technique routs:

■ Operating system: windows 2003 server

■ JSP running environment: JDK +
Tomcat

■ Web server : Tomcat + Apache

dynamics pages static pages

- Database:

SQLServer

Oracle

- JSP DATABASE :

JDBC---Java database connectivity

Datasets of geomagnetism K Index, beijing


Welcome to World Data Center for Geophysics, Beijing! - Microsoft Internet Explorer

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地址: http://159.226.119.165/wdc/english/cnIndex.htm

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World Data Center for Geophysics, Beijing

2005-12-26 Monday pm 3:21:03

Geomagnetic K index of BMT Observatory

User Login
Username <input type="text"/>
Password <input type="password"/>
<input type="button" value="login"/> <input type="button" value="reset"/>
New user register

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Research Organization in China
Geophysics Observatories in China
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http://159.226.119.165/wdc/dataService/k/k1994BMT.txt

Internet

开始 4 Windows E... 2002国家社会... 2 Microsoft... 2 Internet... Microsoft Fr... 15:21

An introduction of China geophysics observatory BMT

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User Login

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Geophysics Data

World Data Center System

Research Organization in China

Geophysics Observatories in China

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Chinese Geophysics Observatories

Beijing Ming Tombs Geomagnetic Observatory	Geomagnetic Observatory at Zhongshan Station, Antarctica	Geomagnetic Observatory at Great Wall Station, Antarctica
Introduction of Sheshan observatory	Mohe Geomagnetic Observatory	

Beijing Ming Tombs Geomagnetic Observatory (BMT)



Beijing Ming Tombs Geomagnetic Observatory (BMT), run by the Institute of Geology and Geophysics of Chinese Academy of Sciences, is the center observatory of the meridian chain of geo-space physics observatories in China. It is also the earliest digitalized observatory as well as to access to the International Realtime Geomagnetic Observatory Net (INTERMAGNET) in mainland China .

1. General description of the Observatory

完毕

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Datacenter of geophysics http://data.geophys.cn

2007

2006年10月11日 星期三

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SDSP WDC

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- 我中心人员参加分布式地球系统科学数据共享平台培训
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华北平原	长江中下游
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- 3 余山地磁台1933-...

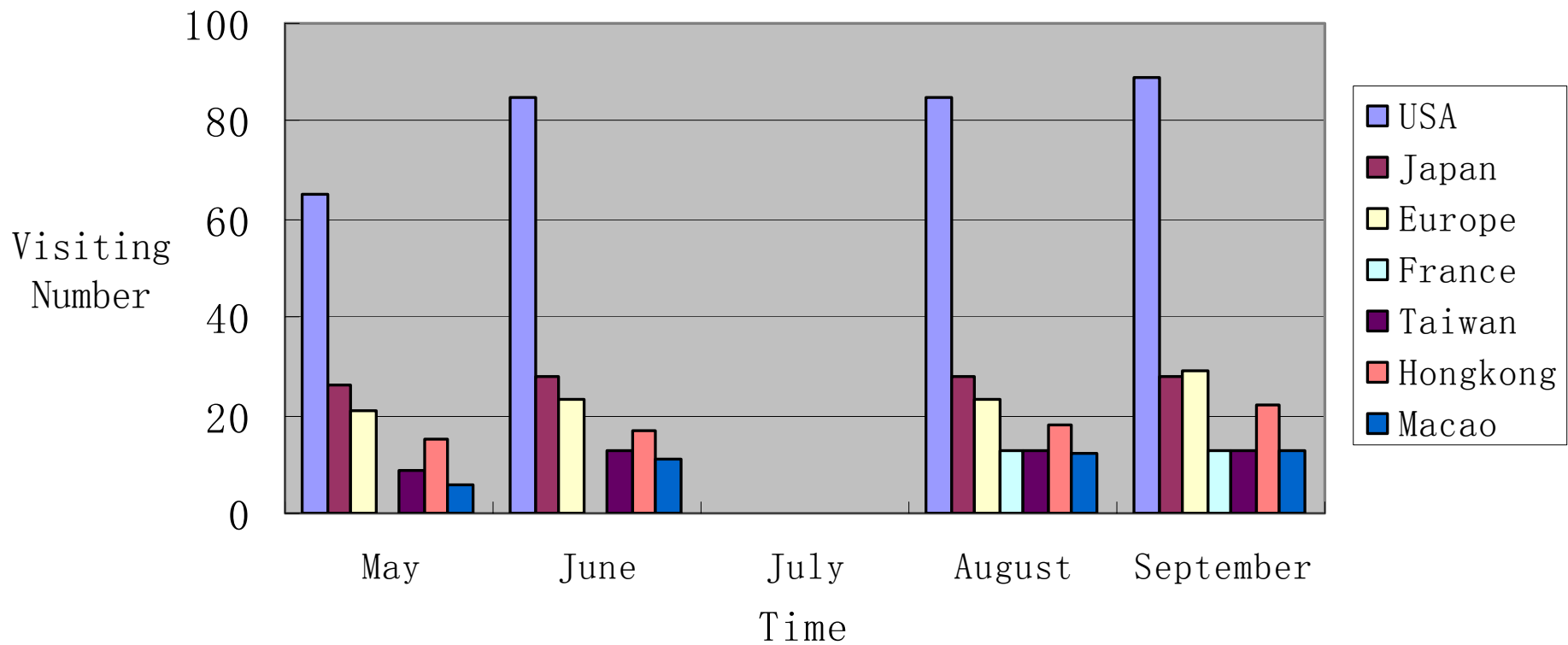
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