

East Asian Geographic Data Resources at Harvard



**Ash Center Visiting Scholars
31 Jan 2013**

Merrick Lex Berman

China Historical GIS Project [CHGIS]
Center for Geographical Analysis
Harvard University

Major collections to explore

HGL

(2001 -)

G. W. Skinner Archive

(2012 -)

CHGIS

(2001 -)

Japan Daishinsai Archive

(2012 -)

ChinaMap

(2010 -)

TibetMap

(2013 -)

JapanMap

(2011 -)



Getting Started

Search

Cart (2)

Save Image

Print

SEARCH

korea

Search

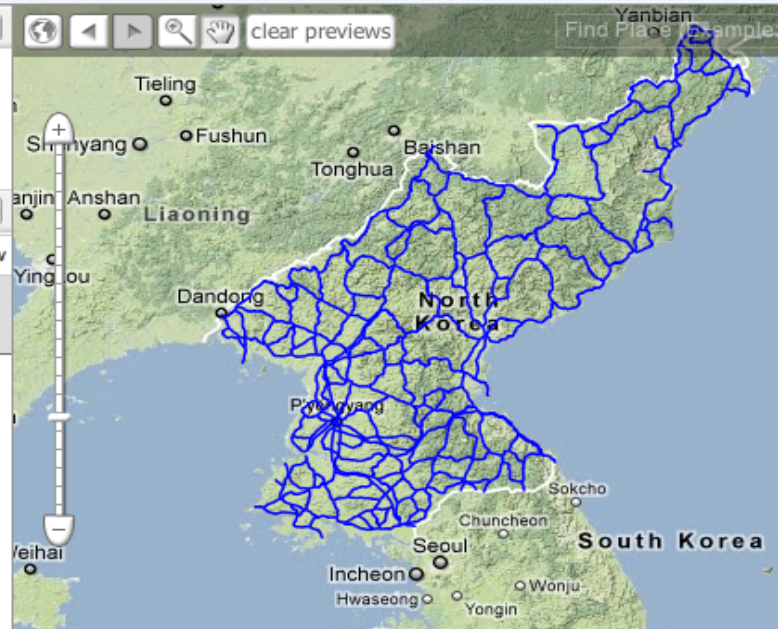
Limit results to visible map area

[advanced options](#)

12 RESULTS by Relevancy

Columns

<input type="checkbox"/>	Type	Name	Originator	Rep	i	Preview
<input checked="" type="checkbox"/>	Major Roads - North Korea		Asia Pacific	£	H	<input checked="" type="checkbox"/>
		opacity: 100% In width: 1px				
<input type="checkbox"/>	Administrative Seats - North Korea		Asia Pacific	£	H	<input type="checkbox"/>
<input type="checkbox"/>	Cities and Towns - North Korea		Asia Pacific	£	H	<input type="checkbox"/>
<input type="checkbox"/>	Local Roads - North Korea		Asia Pacific	£	H	<input type="checkbox"/>
<input type="checkbox"/>	Railroads - North Korea		Asia Pacific	£	H	<input type="checkbox"/>
<input type="checkbox"/>	Railroad Stations - North Korea		Asia Pacific	£	H	<input type="checkbox"/>
<input type="checkbox"/>	North Korea (Geographic Feature National Imagery)		Asia Pacific	£	H	<input type="checkbox"/>
<input type="checkbox"/>	Administrative Regions, Level One - N Asia Pacific		Asia Pacific	£	H	<input type="checkbox"/>



Harvard Geospatial Library

website:

hgl.harvard.edu/



Getting Started

Search

Cart (0)

SEARCH

india

Search

Limit results to visible map area

[advanced options](#)

89 RESULTS by

Relevancy

Columns

	Type	Name	Originator	Rep		Preview
<input type="checkbox"/>		India : District Boundaries, 1951	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1961	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1971	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1981	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1991	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 2001	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India SoilMap	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India (Geographic Feature Names, 20	National Ima			<input type="checkbox"/>
<input type="checkbox"/>		India : Towns with Census Data, 2001	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : State Boundaries with Census I	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India SoilMap by Administrative Distric	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : Sub-District Boundaries with C€	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : Lok Sabha (14th) Constituency	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		India : Lok Sabha (9th-13th) Constitue	ML InfoMap (<input type="checkbox"/>
<input type="checkbox"/>		Kolkata, India, Roads, 1910 (Raster In	Harvard Map			<input type="checkbox"/>

Search term

Results

[Getting Started](#)[Search](#)[Cart \(0\)](#)[Save Image](#)

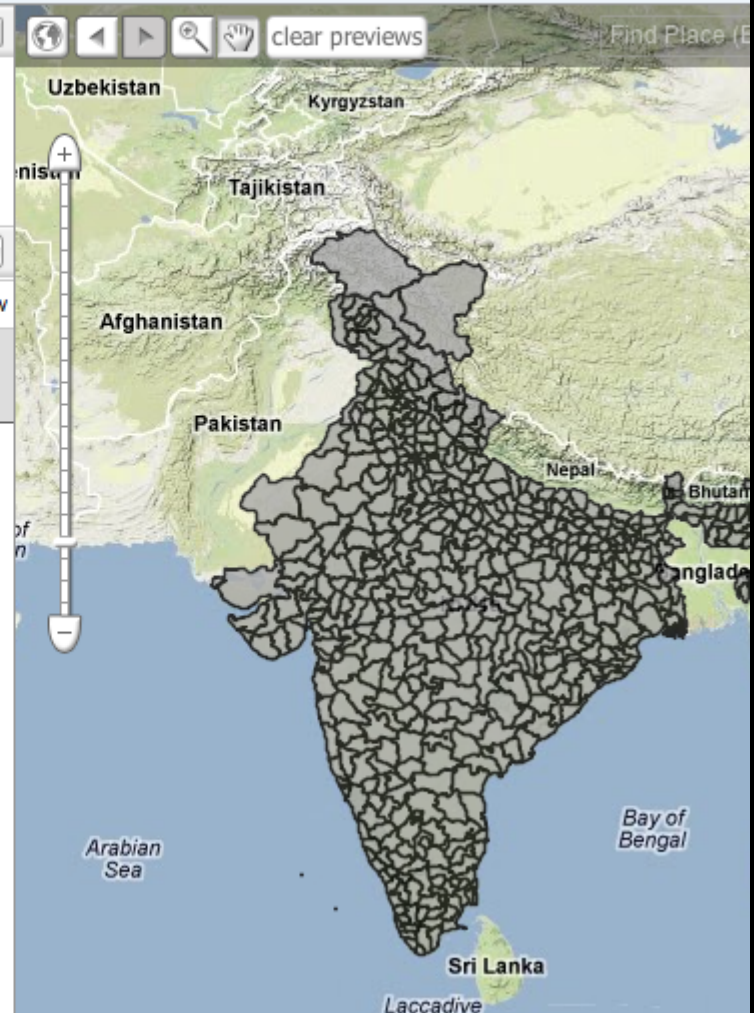
SEARCH

 Limit results to visible map area[advanced options](#)

89 RESULTS by Relevancy ▾

Columns ▾

	Type	Name	Originator	Rep		Preview
<input type="checkbox"/>		India : District Boundaries, 2001 opacity: 80% ▾ border: 1px ▾	ML InfoMap ()			<input checked="" type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1951	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1961	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1971	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1981	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : District Boundaries, 1991	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India SoilMap	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India (Geographic Feature Names, 20 National Im	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : Towns with Census Data, 2001	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : State Boundaries with Census I	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India SoilMap by Administrative Distric	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : Sub-District Boundaries with C	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : Lok Sabha (14th) Constituency	ML InfoMap ()			<input type="checkbox"/>
<input type="checkbox"/>		India : Lok Sabha (9th-13th) Constitue	ML InfoMap ()			<input type="checkbox"/>





Getting Started

Search

Cart (1)

Save Image

Print

OPTIONS

Download

Web Service

Share

Map It

Download highlighted layers to your computer

LAYERS (1)

Remove

<input checked="" type="checkbox"/>	Type	Name	Originator	Rep	Preview
<input checked="" type="checkbox"/>		CHGIS Version 4 : Inner Mongolia 18	CHGIS, Harv		<input checked="" type="checkbox"/>

DOWNLOAD SETTINGS

Select format for:

Vector files

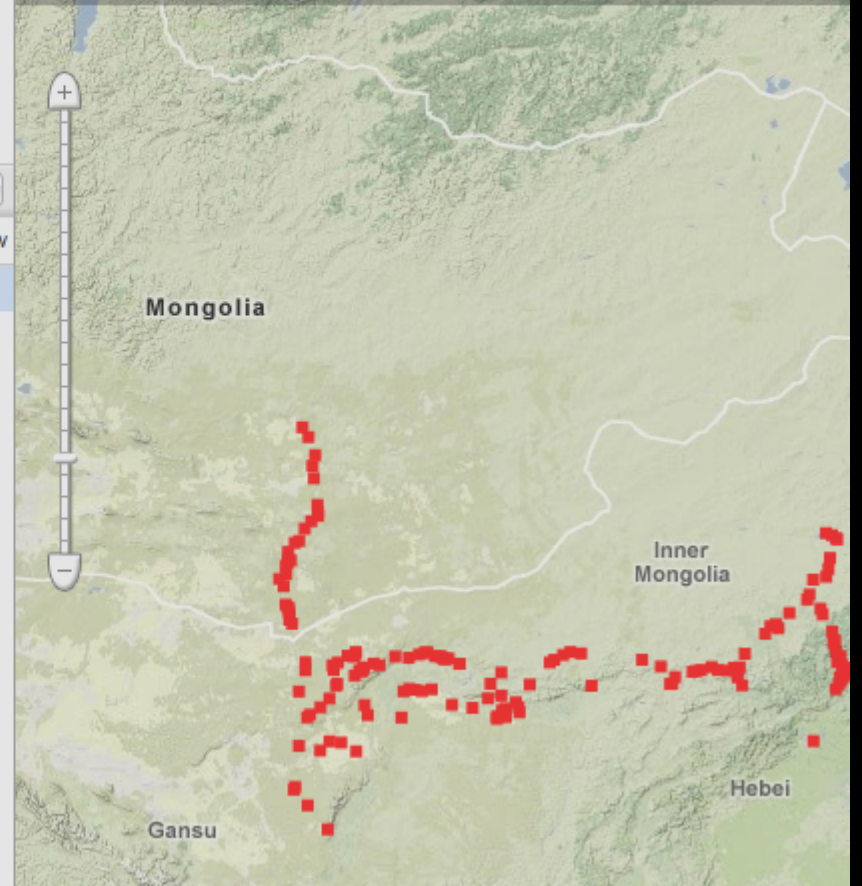
Clip data to map extent

Cancel

Continue

clear previews

Find Place (Example: ...)



OpenGeoportal.org

[Welcome](#) [Blog](#) [FOSS4G](#) [Metadata](#) [LISTSERV](#) [Contact](#) [Data Portals](#) **[Partners](#)**

Partners

Contributing Partners

- Tufts University
- Harvard University
- Massachusetts Institute of Technology (MIT)
- MassGIS
- Princeton University
- Stanford University
- University of California Berkeley
- Columbia University
- University of Connecticut
- Yale University
- USAID
- University of California Los Angeles
- University of Wisconsin Madison
- Cornell University
- University of Georgia
- State of Georgia



China Historical GIS Project

website: www.fas.harvard.edu/~chgis

CHGIS: Base GIS system for Chinese Administrative Geography

秦始皇

222 BCE

清宣统

1911 CE

POINT Features:

National Capitals

Province Capitals

Prefecture Capitals

County Capitals

Towns & Villages

POLYGON Features:

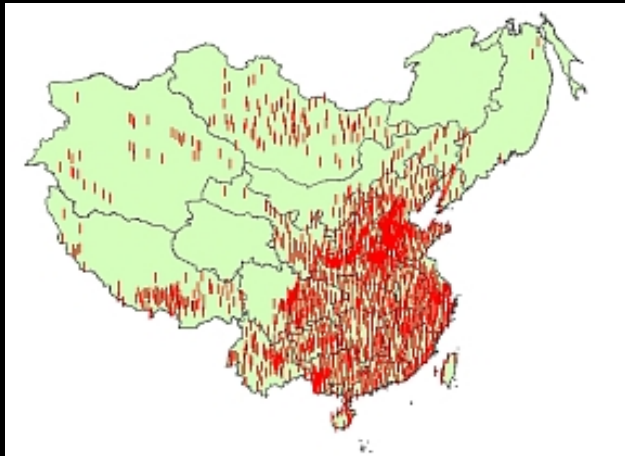
National & Regime Boundaries

Province Boundaries

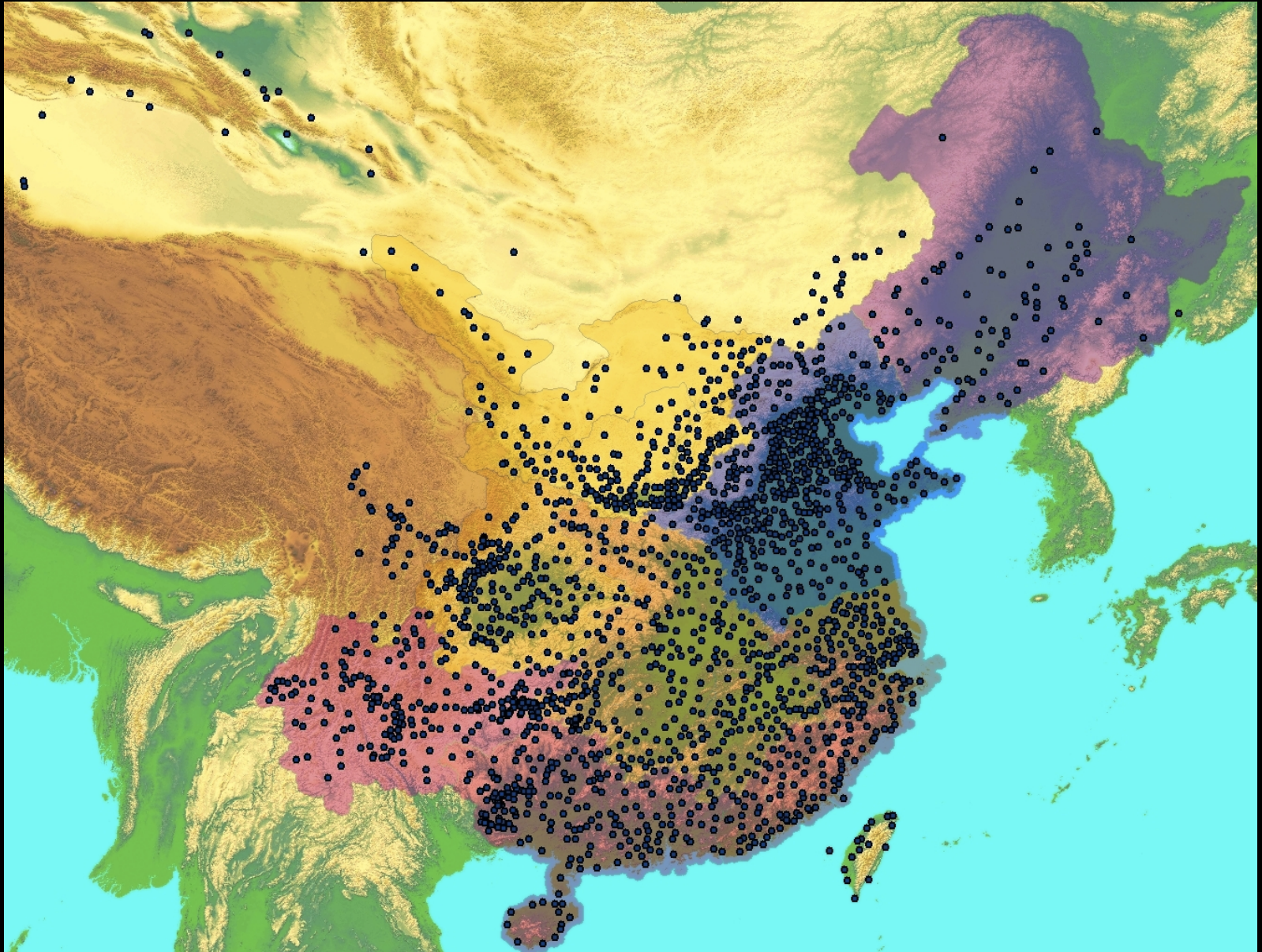
Prefecture Boundaries

1911 County Boundaries

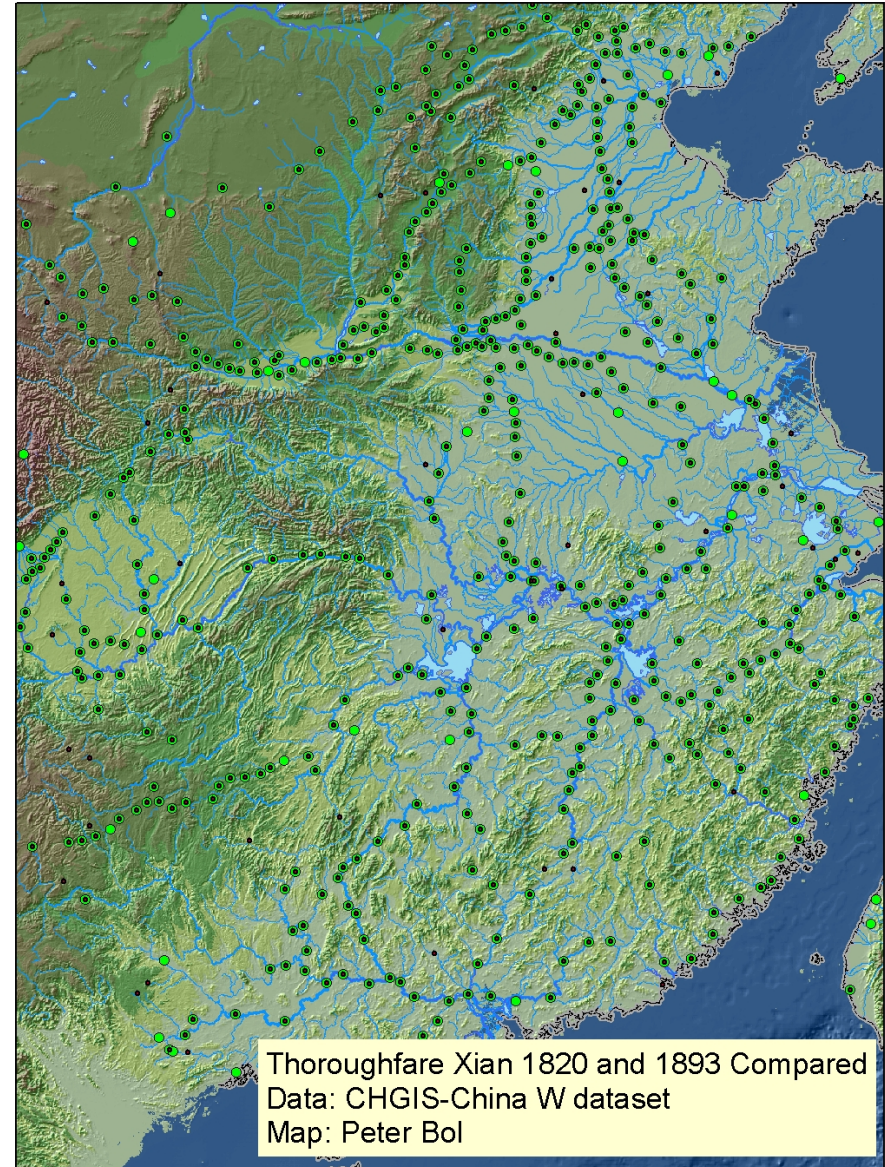
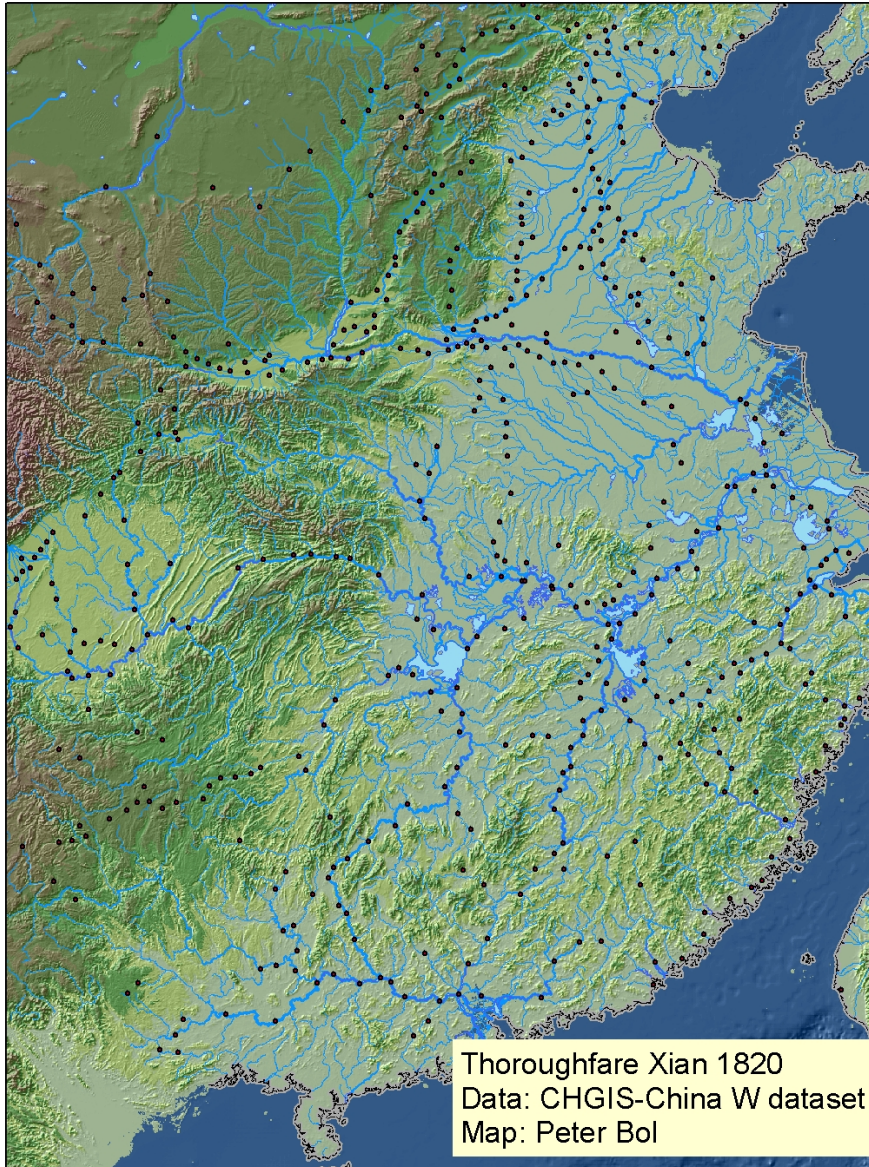
1820 County Seats, Towns, & Prefecture Seats



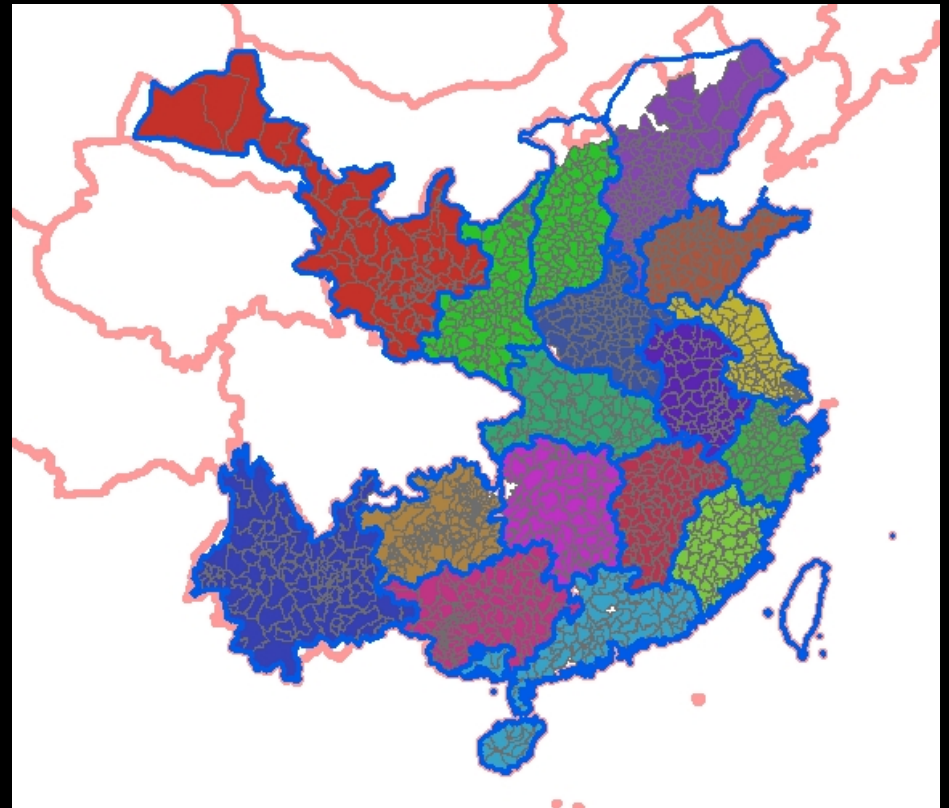
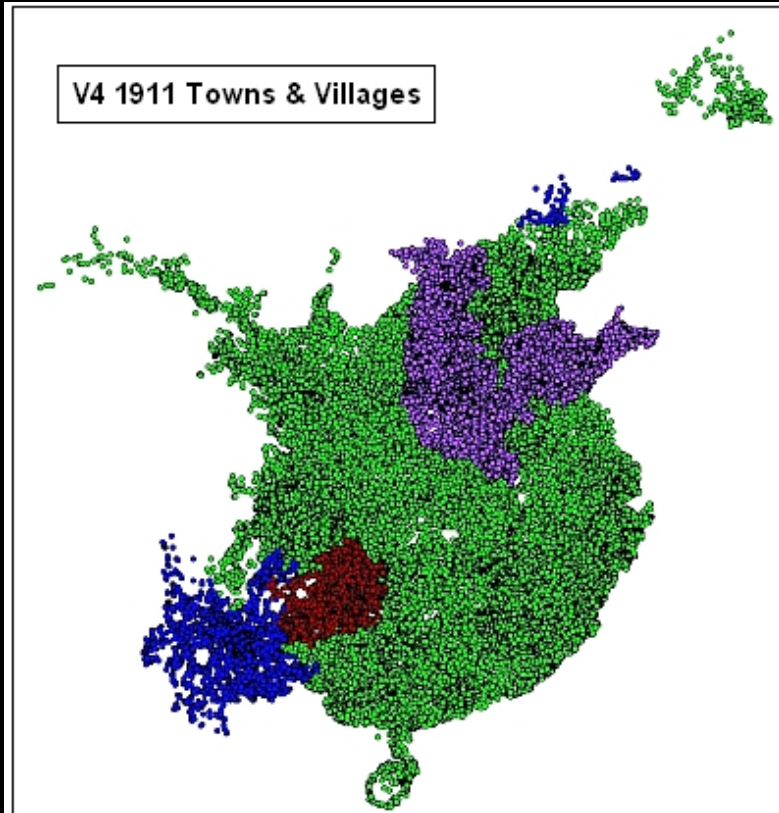
G. W. Skinner: ChinaW 1820-1893 & Physiographic Macroregions



G. W. Skinner: ChinaW “chong xian” comparing 1820 & 1893



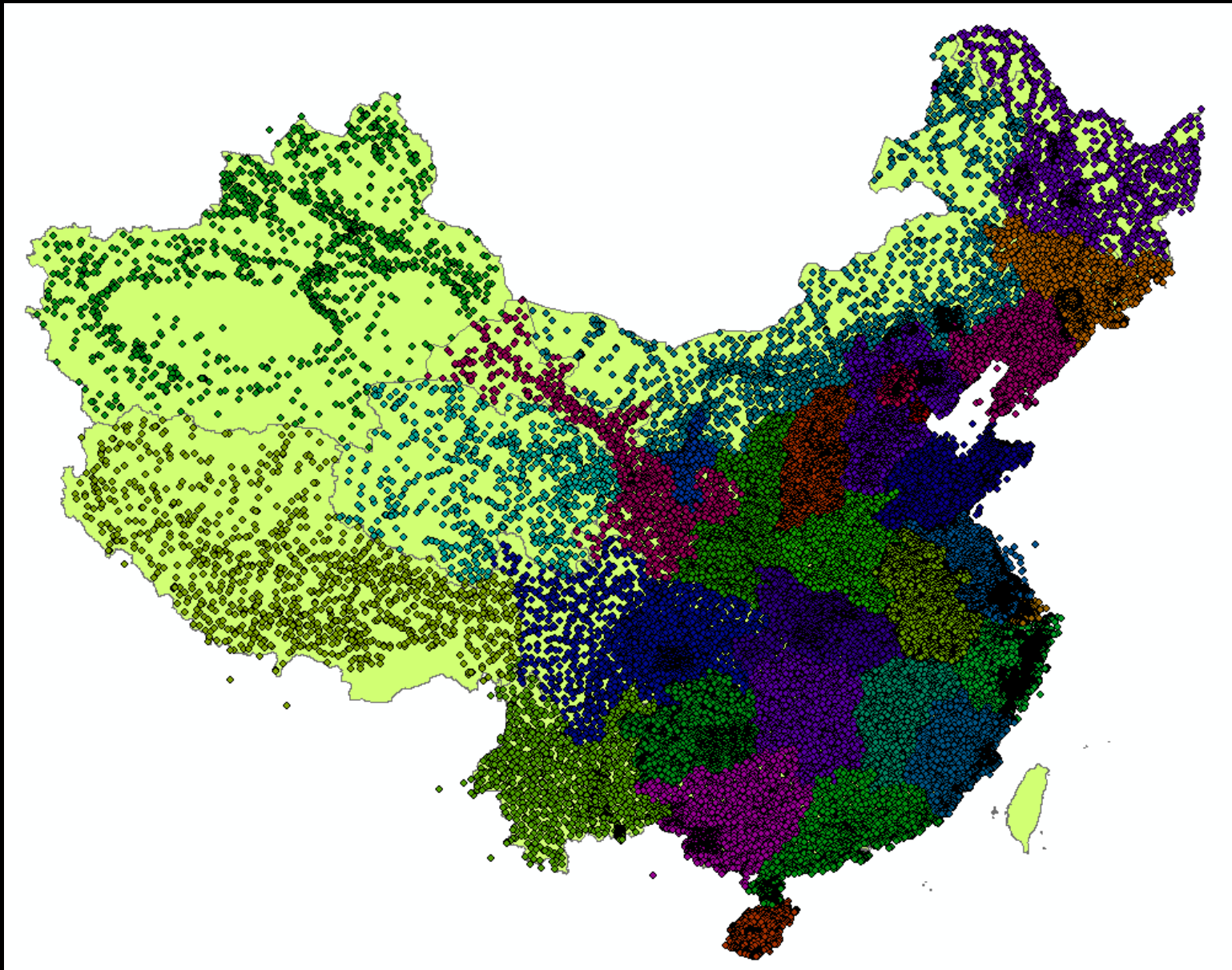
CHGIS V4: 1911 towns (points) and 1911 counties (polygons)



CHGIS V5: 1911 county seats and boundaries



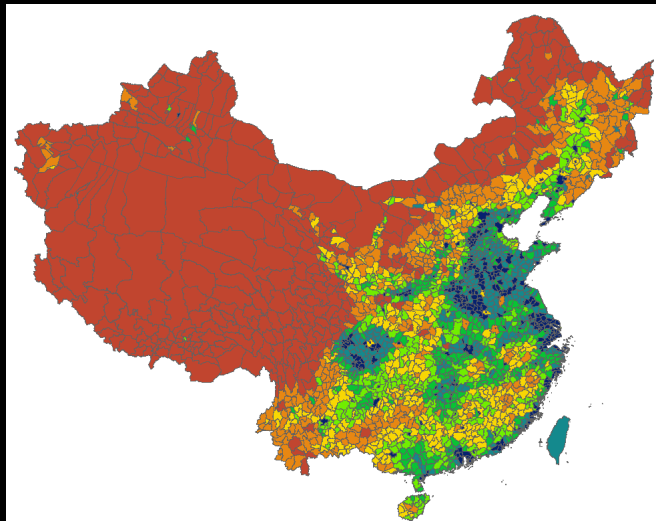
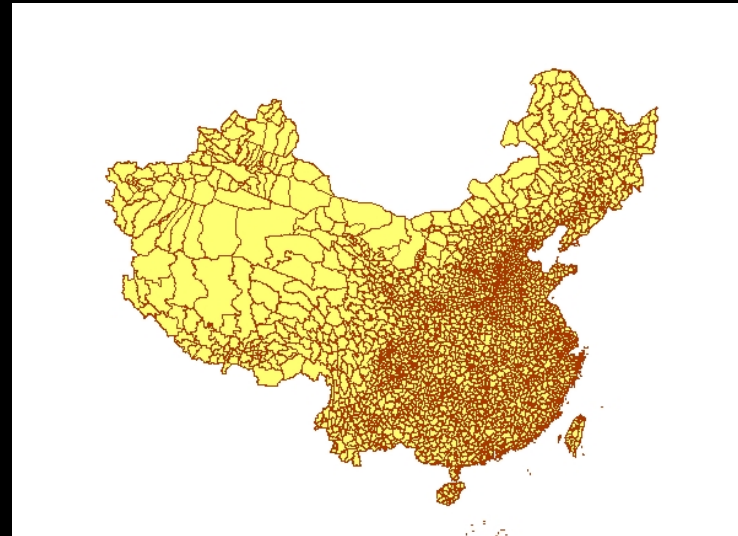
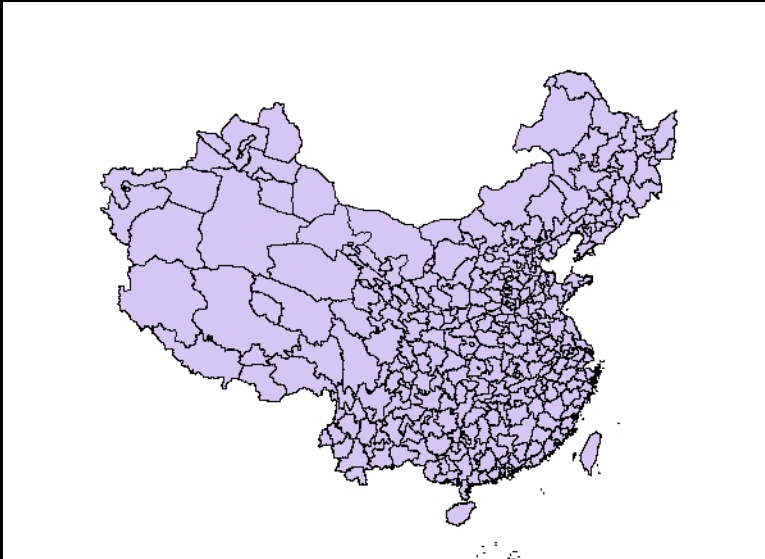
CHGIS: 1990s Named Features (USGS)



CHGIS: 1990s Named Features (NGA)

NM_ASCII	PROV_PY	PREF_ID	PREF_PY	CNTY_CH	CNTY_PY
Muchitao Kiao	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Mu-chi Tao	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Mu-chi-tao Chiao	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Qimudao	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Laodian	SHANGDON	372300	Huimin Diqu	陽信縣	Yangxin Xian
Po-t'ou-chen	SHANGDON	372300	Huimin Diqu	沾化縣	Zhanhua Xian
Potou	SHANGDON	372300	Huimin Diqu	沾化縣	Zhanhua Xian
K'en-li	SHANGDON	370500	Dongying Shi	利津縣	Lijin Xian
Longkou	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Lung-k'ou	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Lung-kou-shih	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Lungkow	SHANGDON	370600	Yantai Shi	龍口市	Longkou Shi
Ning-ching-ch'eng-kuan	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ningjin	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ningsing	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ning-chin	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Nintszin	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ning-ching	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ning-ching-hsien	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ningjin Xian	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian
Ning-chin Hsien	SHANGDON	372400	Dezhou Diqu	寧津縣	Ningjin Xian

CITAS: China in Time and Space (1990 Census)



HMLOCAL	MQ	ISL	HMHANZI	A5	A6	A101	A102	A103
Mohe	P	0	漠河	6.00	10.00	22197.00	84981.00	45415
Tahe	P	0	塔河	6.00	10.00	26080.00	99997.00	51563
E'ergu`na youqi	P	0	額爾古納右旗	8.00	12.00	18846.00	72793.00	38152
Huma	P	0	呼瑪	6.00	10.00	11727.00	44762.00	23642
Huzhong	P	0	呼中區	6.00	14.00	15254.00	59174.00	30256
Xinlin	P	0	新林區	6.00	14.00	16124.00	61319.00	31238
E'ergu`na zuoqi	P	0	額爾古納左旗	8.00	12.00	44884.00	177450.00	91297
Songling	P	0	松嶺區	6.00	14.00	9516.00	37193.00	19014
Elunchun	P	0	鄂倫春自治旗	8.00	13.00	71590.00	293846.00	150977
Heihe	P	0	黑河市	6.00	8.00	38787.00	145616.00	74466
Nenjiang	P	0	嫩江	6.00	10.00	114689.00	444980.00	228928
Yakeshi	P	0	牙克石市	8.00	8.00	107244.00	416043.00	212536
Jiagedaqi	P	0	家格達奇區	6.00	14.00	35242.00	132222.00	67715
Habahe	P	0	哈巴河	6.00	10.00	11837.00	63959.00	32850
Bu`erjin	P	0	布爾津	6.00	10.00	10392.00	54898.00	28045
Xunke	P	0	遜克	6.00	10.00	23036.00	86187.00	44366
Sunwu	P	0	孫吳	6.00	10.00	20641.00	78553.00	40492

CHGIS: Historical Georeferencing – Buddhist Temples

崇聖寺			
2220	2227	2225	2225
2224 大、和泉蒼山十 六峰	2227 柳洲の北郭外	2225 昌邑果治東	2225 崎其治東
唐、南元中	宋、聖寧中		宋、政和
今名、三塔寺。七樓八殿三塔あり	明、洪武合聖建		

今名、三塔寺。七樓八殿三塔あり
 2220
 2224
 大、和泉蒼山十
 六峰
 崇聖寺
 唐、南元中

Source Comparison: 1820 Yitongzhi and 1966 Yajima Index

崇聖寺

在太和县西北蒼山十六峰之下。寺有七樓八殿。三塔高十餘丈。凡十六級。唐開元中建。今名三塔寺。

今名、三塔寺。七樓八殿三塔あり

2220
224
大、和県蒼山十六峰
唐、南元中

崇聖寺

Name:	崇聖寺
Temple ID:	2220
Site ID:	224
Location:	大和县蒼山十六峰
Established:	唐開元中
Notes:	今名三塔寺，七樓八殿三塔

CHGIS: Georeferencing Yajima Site Number to CHGIS Record

site_id	site_ch	site_alt	site_rom	chgis_id
217	曲靖府	曲靖府	Qujing Fu	9757
218	临安府	臨安府	Linan Fu	9765
219	澄江府	澄江府	Chengjiang Fu	9760
220	广南府	廣南府	Guangnan Fu	9762
221	开化府	開化府	Kaihua Fu	9766
222	昭通府	昭通府	Zhaotong Fu	9747
223	普洱府	普洱府	Puer Fu	9767
224	大理府	大理府	Dali Fu	9753
225	楚雄府	楚雄府	Chuxiong Fu	9754

Name:	崇圣寺
Temple ID:	2220
Site ID:	224
Location:	大和县苍山十六峰
Established:	唐开元中
Notes:	今名三塔寺，七楼八殿三塔

229 麗江府 (2251) 5 2228 州 (2053) 5 2176 5 2210 216 雲南府 (2184) 5 220 廣南府 (2184) 5 221 開化府 (2172) 5 222 昭通府 (2173) 5 223 永昌府 (2180) 5 224 昭通府 (2173) 5 225 永昌府 (2180) 5 226 昭通府 (2173) 5 227 順寧府 (2181) 5 228 普洱府 (2178) 5 229 元江州 (2181) 5 230 順寧府 (2181) 5 231 鎮

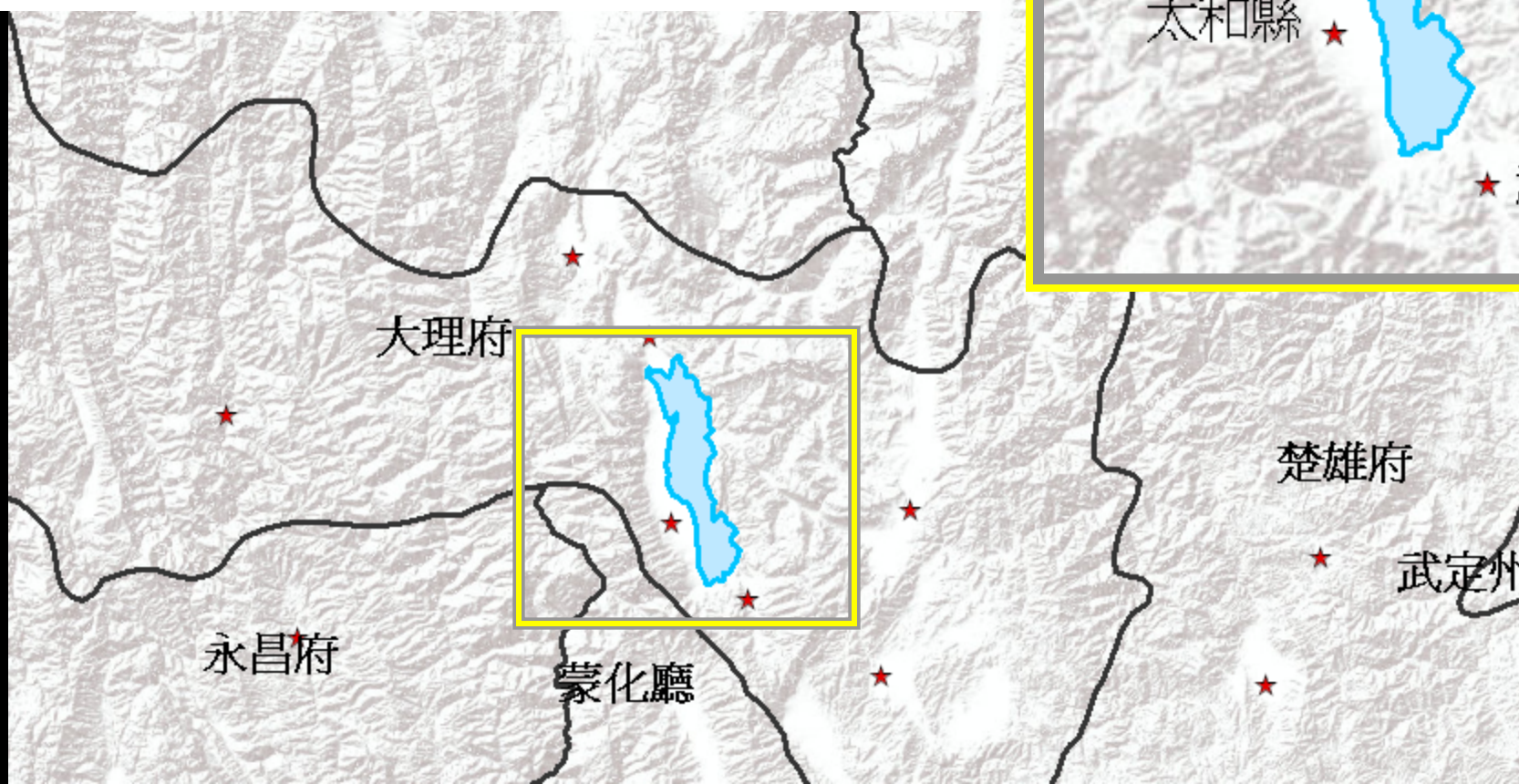
224
大理府
2219
5
2229

CHGIS: Identifying Correct Locality in CHGIS Database

child id	child rom	child utf	child utf	abeg_yr	end_yr	parent utf	parent rom	parent id
1547	Langqiong Xian	浪穹县	浪穹縣	1820	1820	大理府	Dali Fu	9753
1553	Yunlong Zhou	云龙州	云龍州	1820	1820	大理府	Dali Fu	9753
1555	Yunnan Xian	云南县	云南縣	1820	1820	大理府	Dali Fu	9753
1556	Dengchuan Zhou	邓川州	鄧川州	1820	1820	大理府	Dali Fu	9753
1557	Binchuan Zhou	宾川州	賓川州	1820	1820	大理府	Dali Fu	9753
1558	Taihe Xian	太和县	太和縣	1820	1820	大理府	Dali Fu	9753
1623	Zhao Zhou	赵州	趙州	1820	1820	大理府	Dali Fu	9753
22347	Emaoding	鹅毛顶	鵝毛頂	1820	1820	大理府	Dali Fu	9753
22350	Shijing	师井	師井	1820	1820	大理府	Dali Fu	9753
22391	Liuku	六库	六庫	1820	1820	大理府	Dali Fu	9753
22408	Xiajiangzui	下江嘴	下江嘴	1820	1820	大理府	Dali Fu	9753
22409	Shangjiangzui	上江嘴	上江嘴	1820	1820	大理府	Dali Fu	9753
22411	Nuodengjing	诺邓井	諾鄧井	1820	1820	大理府	Dali Fu	9753
22412	Yunlongjiuzhou	云龙旧州	云龍舊州	1820	1820	大理府	Dali Fu	9753
22413	Fengyuxiang	凤羽乡	鳳羽鄉	1820	1820	大理府	Dali Fu	9753
22422	Caojian	曹涧	曹澗	1820	1820	大理府	Dali Fu	9753
22424	Shimenjing	石门井	石門井	1820	1820	大理府	Dali Fu	9753
22425	Laowo	老窝	老窩	1820	1820	大理府	Dali Fu	9753
22426	Jianganchang	箭杆场	箭桿場	1820	1820	大理府	Dali Fu	9753
22429	Xiaguan	下关	下關	1820	1820	大理府	Dali Fu	9753
22430	Shangguan	上关	上關	1820	1820	大理府	Dali Fu	9753
22431	Shi'erguansi	十二关司	十二關司	1820	1820	大理府	Dali Fu	9753
22433	Binjuzhai	宾居寨	賓居寨	1820	1820	大理府	Dali Fu	9753
22434	Midi	密滴	密滴	1820	1820	大理府	Dali Fu	9753
22435	Xizhou	喜洲	喜洲	1820	1820	大理府	Dali Fu	9753
22436	Midu	弥渡	彌渡	1820	1820	大理府	Dali Fu	9753
22437	Hongyan	红岩	紅巖	1820	1820	大理府	Dali Fu	9753
22440	Midian	米甸	米甸	1820	1820	大理府	Dali Fu	9753
22744	Shundangjing	顺荡井	順蕩井	1820	1820	大理府	Dali Fu	9753
22747	Dingxiling	定西岭	定西嶺	1820	1820	大理府	Dali Fu	9753

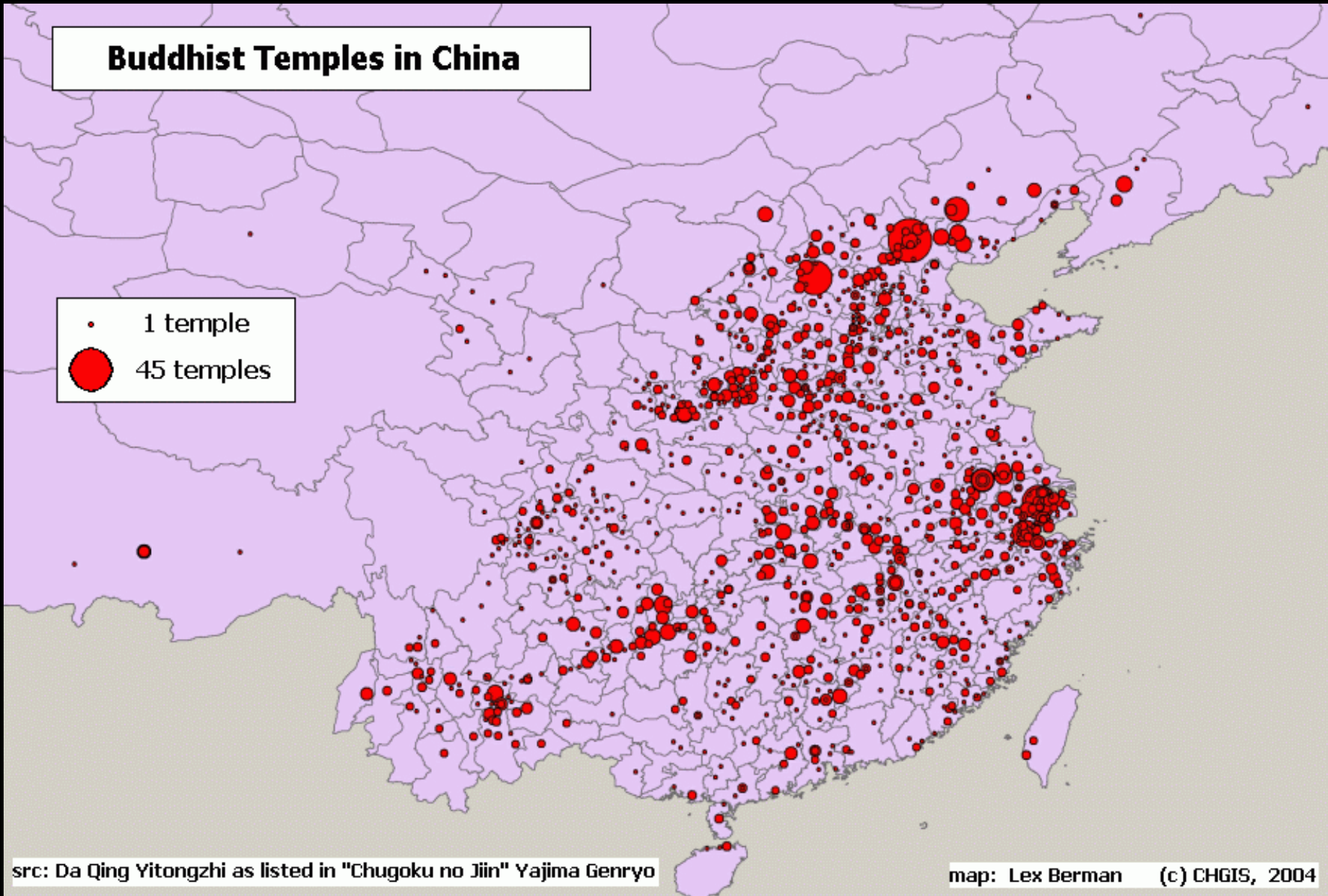
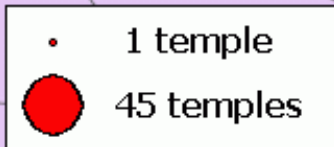
Simple Joining of Historical Records to CHGIS Basemaps

Name:	崇圣寺
Temple ID:	2220
Site ID:	224
Location:	大和县苍山十六峰
Established:	唐开元中
Notes:	今名三塔寺，七楼八殿三塔



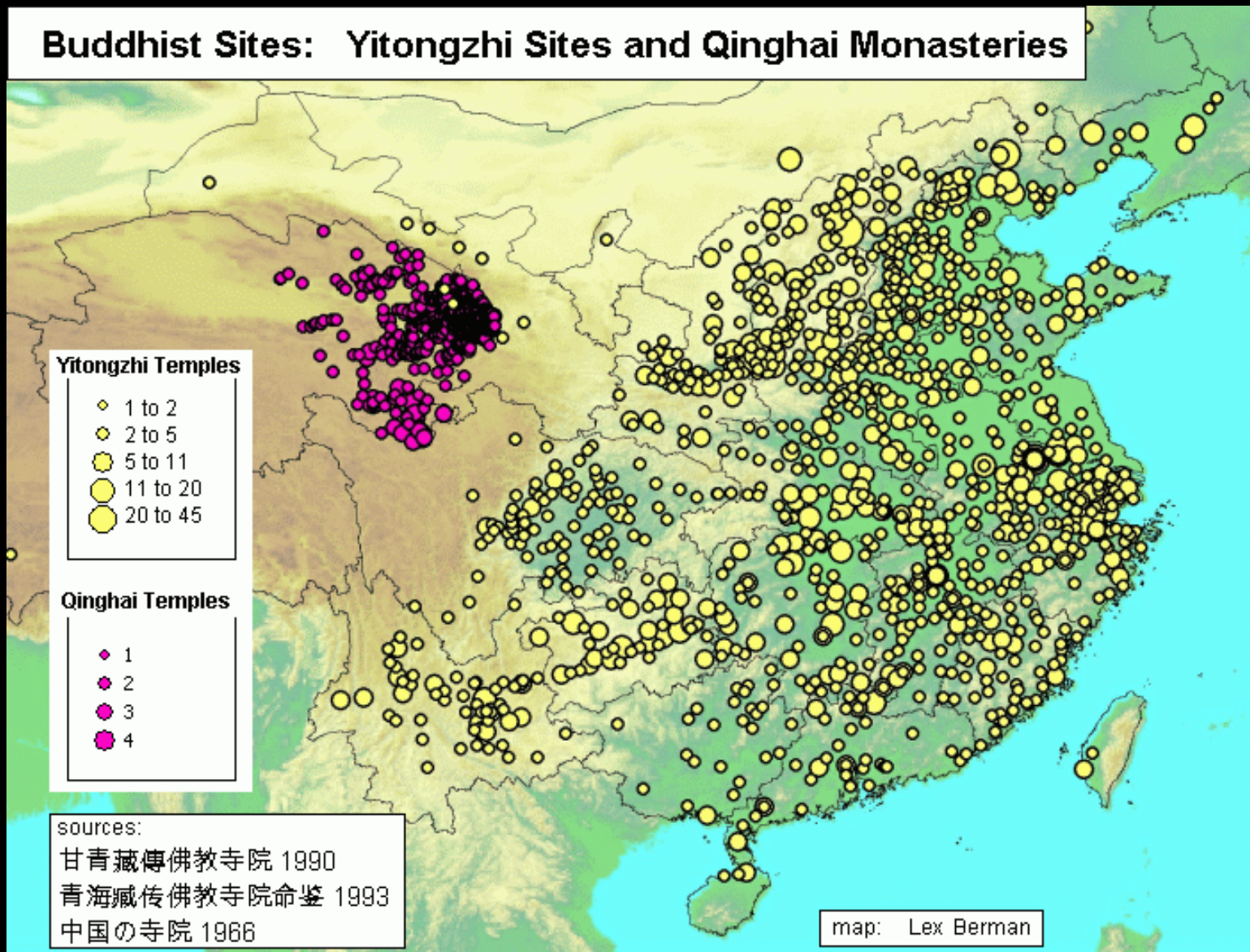
2,400 Buddhist Temple Sites – distribution & density

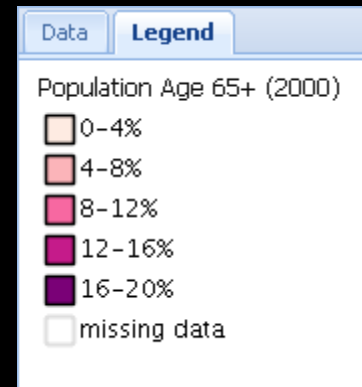
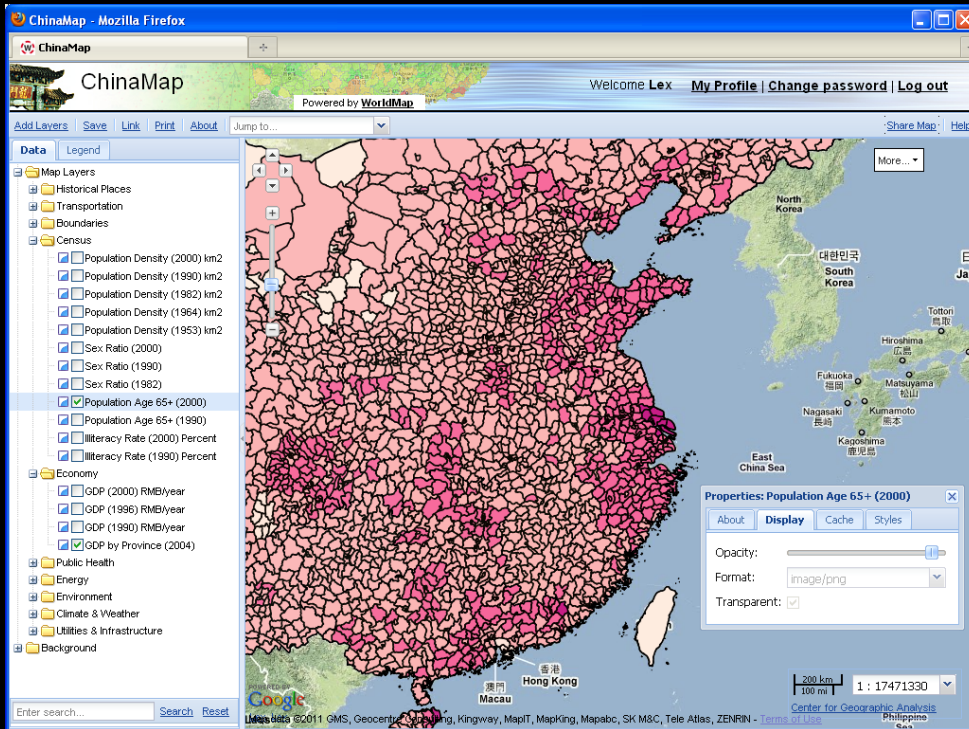
Buddhist Temples in China



Biased Sources Revealed by Data Inspires New Research

Buddhist Sites: Yitongzhi Sites and Qinghai Monasteries



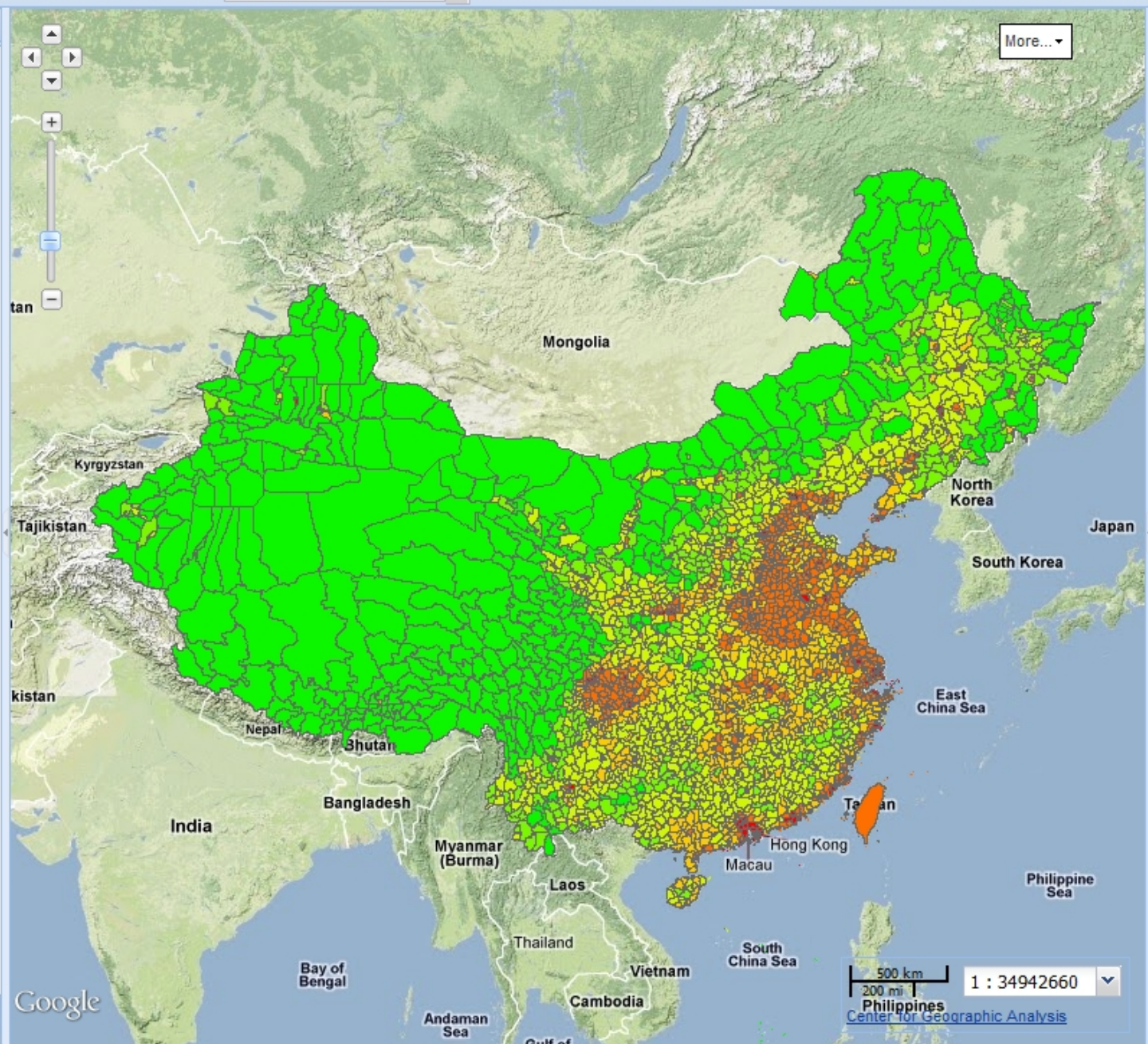
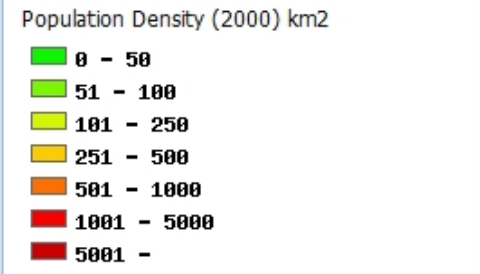


ChinaMap

website: <http://worldmap.harvard.edu/china>

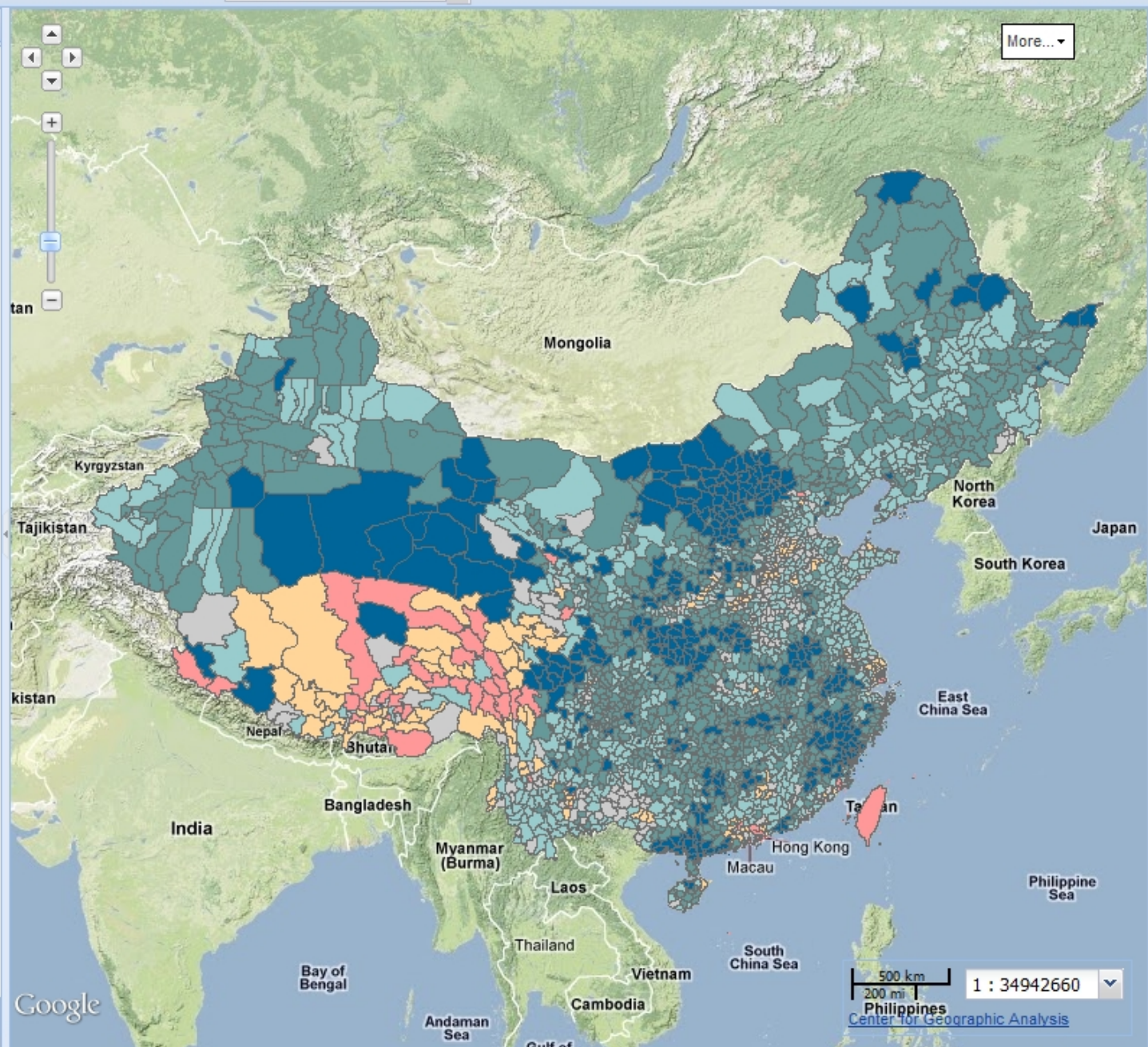
ChinaMap Objectives

- **Online mapping of geographic data about Modern China**
- **To visualize, compare, and analyze data layers**
- **Support research and teaching on today's China**



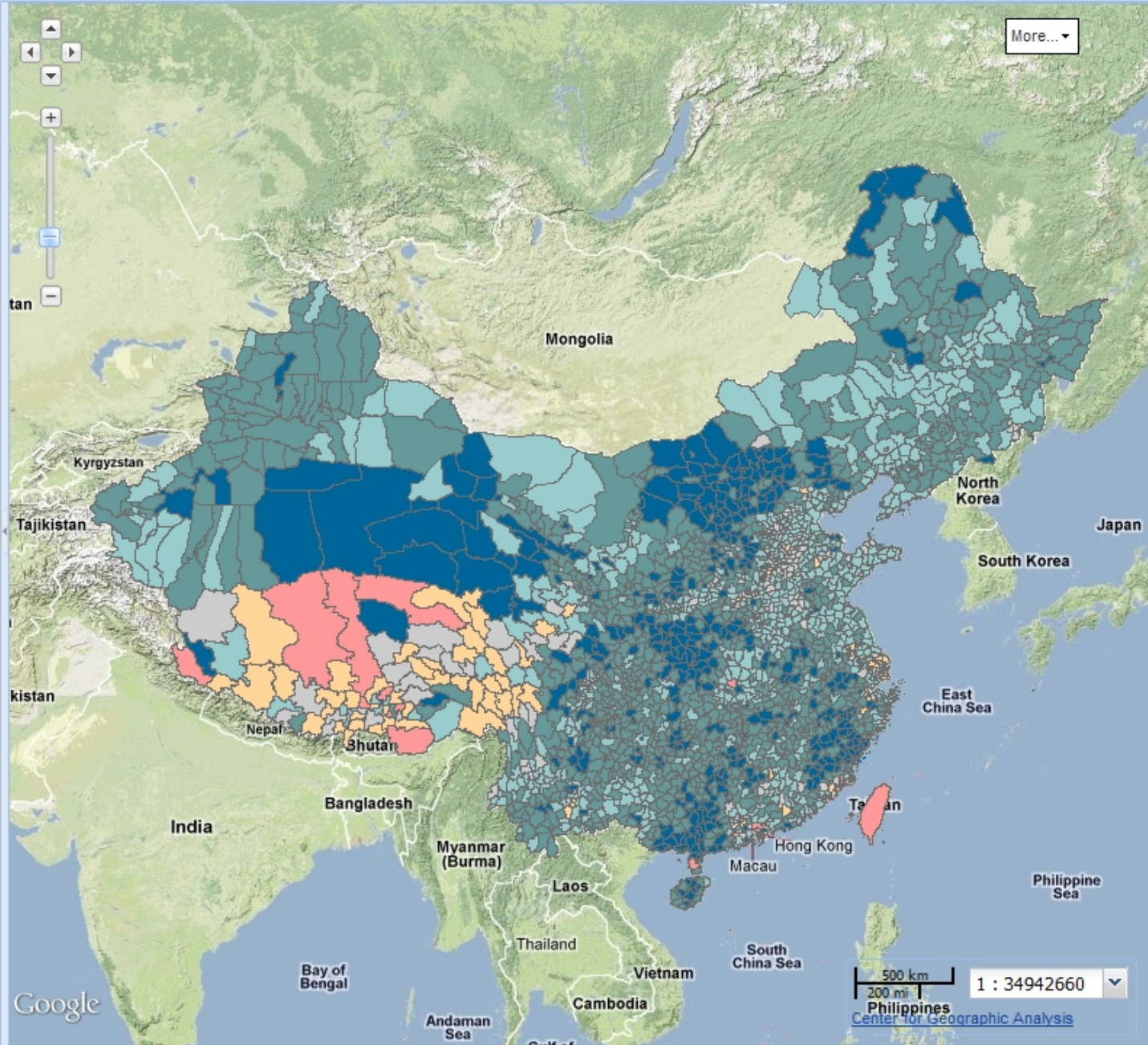
Sex Ratio (1982)

- under 95
- 95 - 99
- 100 - 101
- 102 - 105
- 106 - 110
- over 110

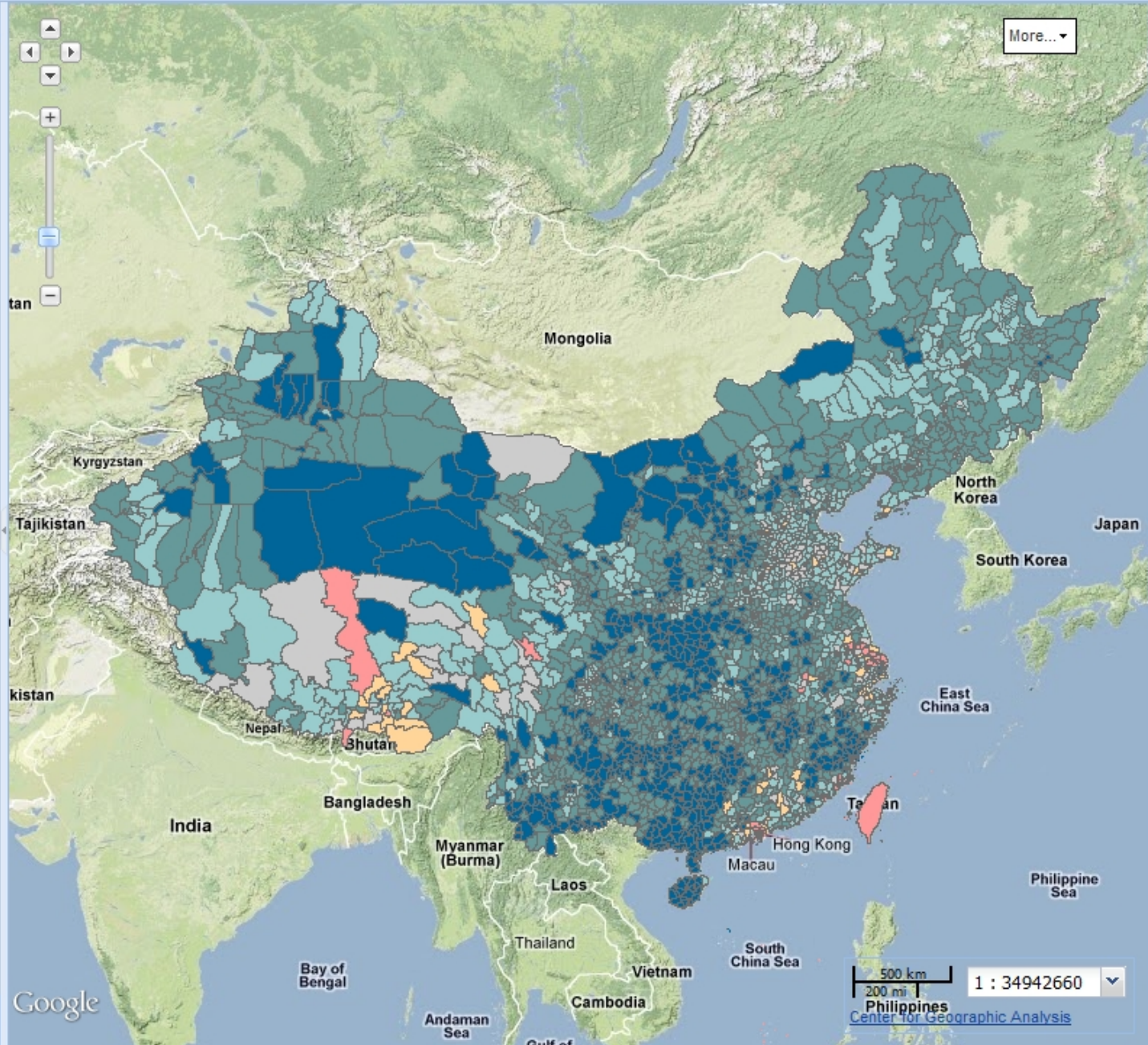


Sex Ratio (1990)

- under 95
- 95 - 99
- 100 - 101
- 102 - 105
- 106 - 110
- over 110



- Sex Ratio (2000)
- under 95
 - 95 - 99
 - 100 - 101
 - 102 - 105
 - 106 - 110
 - over 110

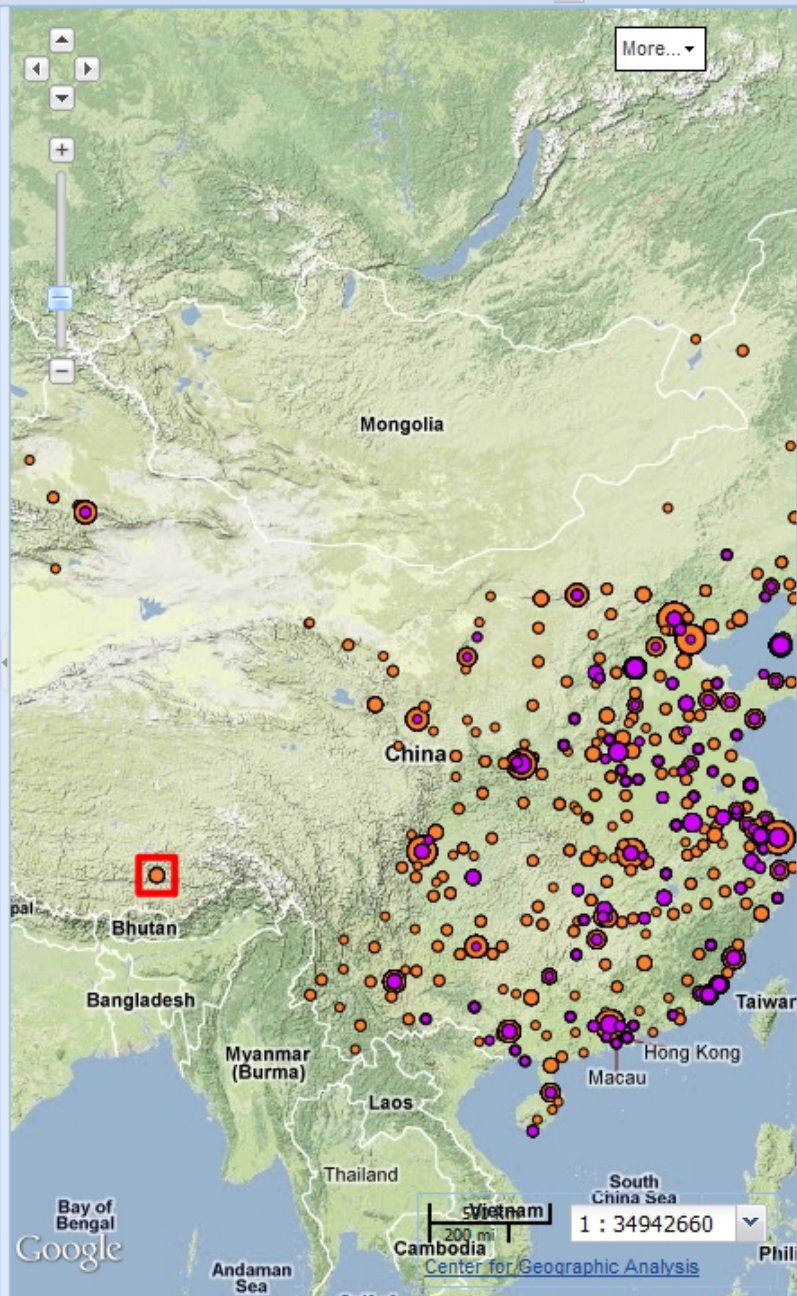


- Universities, Non-Public (2010)
- 1
 - 2 - 5
 - 6 - 10
 - 11 - 20
- Universities, Public (2010)
- 1
 - 2 - 5
 - 6 - 10
 - 11 - 20
 - 21 - 40
 - 41 - 60
 - 61 - 80
 - 81 - 108



Data | **Legend**

- Universities, Non-Public (2010)
- 1
 - 2 - 5
 - 6 - 10
 - 11 - 20
- Universities, Public (2010)
- 1
 - 2 - 5
 - 6 - 10
 - 11 - 20
 - 21 - 40
 - 41 - 60
 - 61 - 80
 - 81 - 108



Identify Results

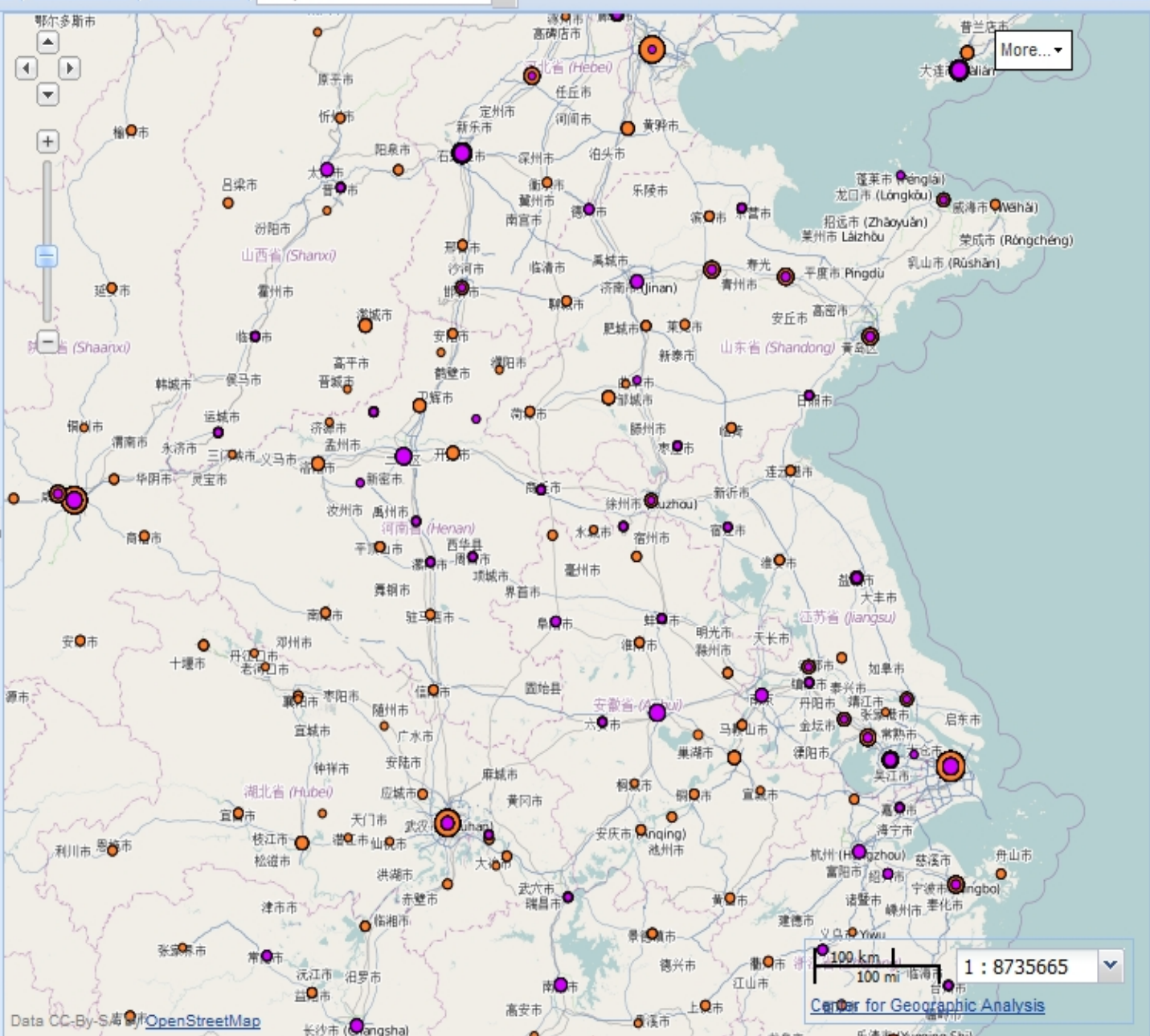
[Reset](#)

Name	
Universities, Public (2010)	
Tibet University	
Tibetan Traditional Medical College	
Lhasa Teachers College	
Tibet Police College	
Tibet Vocational and Technical Coll...	
Tibet Institute for Nationalities	

Feature Details

Name of Institution	Tibet University
City	Lhasa
Category	Regular Higher Education
Affiliation	Tibetan Autonomous Region
Province	Xizang
Level	Undergraduate

- Universities, Non-Public (2010)
- 1
 - 2 - 5
 - 6 - 10
 - 11 - 20
- Universities, Public (2010)
- 1
 - 2 - 5
 - 6 - 10
 - 11 - 20
 - 21 - 40
 - 41 - 60
 - 61 - 80
 - 81 - 108



Data | **Legend**

Universities, Non-Public (2010)

- 1
- 2 - 5
- 6 - 10
- 11 - 20

Universities, Public (2010)

- 1
- 2 - 5
- 6 - 10
- 11 - 20
- 21 - 40
- 41 - 60
- 61 - 80
- 81 - 108

GDP by Province (2004)

- 0-3000RMB
- 3000-5000RMB
- 5000-10000RMB
- 10000-20000RMB
- 20000-50000RMB
- missing data

Enter search... [Search](#) [Reset](#)



Data | **Legend**

Universities, Non-Public (2010)

- 1
- 2 - 5
- 6 - 10
- 11 - 20

Universities, Public (2010)

- 1
- 2 - 5
- 6 - 10
- 11 - 20
- 21 - 40
- 41 - 60
- 61 - 80
- 81 - 108

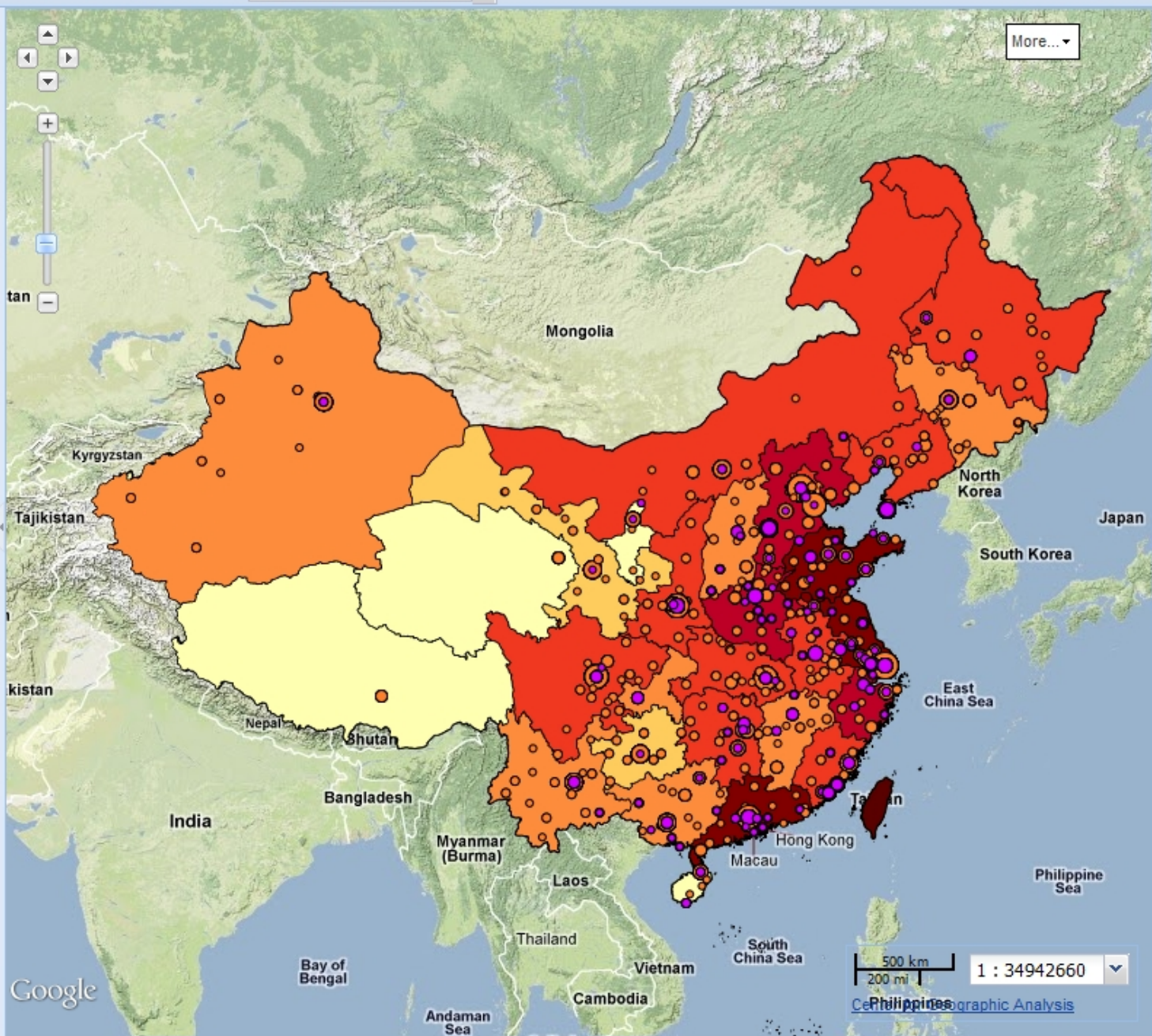
GDP by Province (2010) RMB/yr

- 0 - 3,000
- 3,001 - 5,000
- 5,001 - 10,000
- 10,001 - 20,000
- 20,001 - 30,000
- 30,001 - 50,000
- 50,001 -

GDP by Province (2004) RMB/yr

- 0-3000RMB
- 3000-5000RMB
- 5000-10000RMB
- 10000-20000RMB
- 20000-50000RMB
- missing data

[Search](#) [Reset](#)



Data **Legend**

GDP by Province (2010) RMB/yr

- 0 - 3,000
- 3,001 - 5,000
- 5,001 - 10,000
- 10,001 - 20,000
- 20,001 - 30,000
- 30,001 - 50,000
- 50,001 -

Population Density (2000) km2

- 0 - 50
- 51 - 100
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 5000
- 5001 -

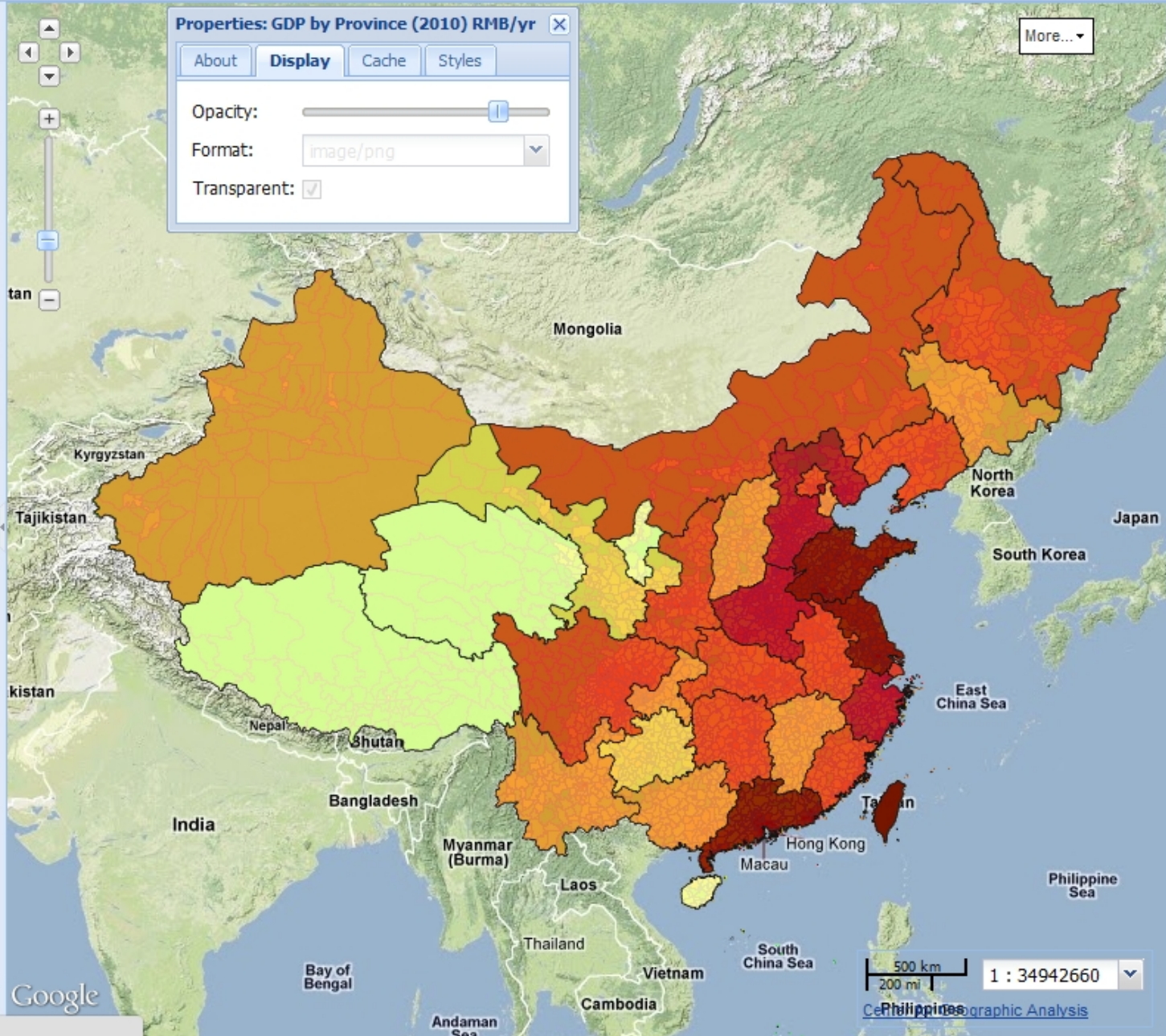
Properties: GDP by Province (2010) RMB/yr [X]

About **Display** Cache Styles

Opacity:

Format:

Transparent:



Powered by [WorldMap](#)

[Add Layers](#) | [Save](#) | [Identify](#) | [Link](#) | [Print](#) | [About](#) | [Google Earth](#) | [Street View](#) | Jump to... Revisions | [Share Map](#)

Data | **Legend**

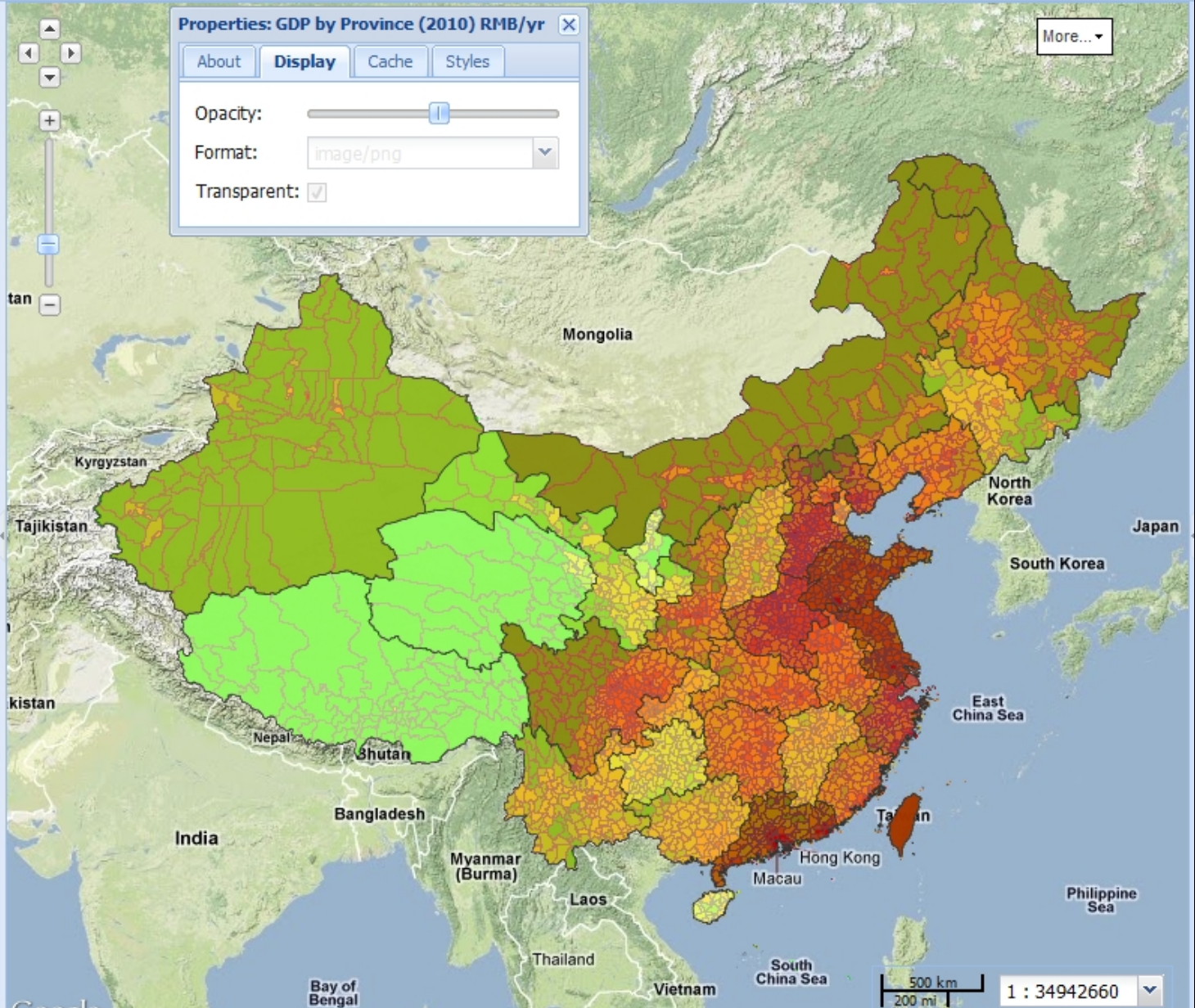
GDP by Province (2010) RMB/yr

- 0 - 3,000
- 3,001 - 5,000
- 5,001 - 10,000
- 10,001 - 20,000
- 20,001 - 30,000
- 30,001 - 50,000
- 50,001 -

Population Density (2000) km2

- 0 - 50
- 51 - 100
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 5000
- 5001 -

Enter search... [Search](#) [Reset](#)



Data | **Legend**

GDP by Province (2010) RMB/yr

- 0 - 3,000
- 3,001 - 5,000
- 5,001 - 10,000
- 10,001 - 20,000
- 20,001 - 30,000
- 30,001 - 50,000
- 50,001 -

Population Density (2000) km2

- 0 - 50
- 51 - 100
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 5000
- 5001 -

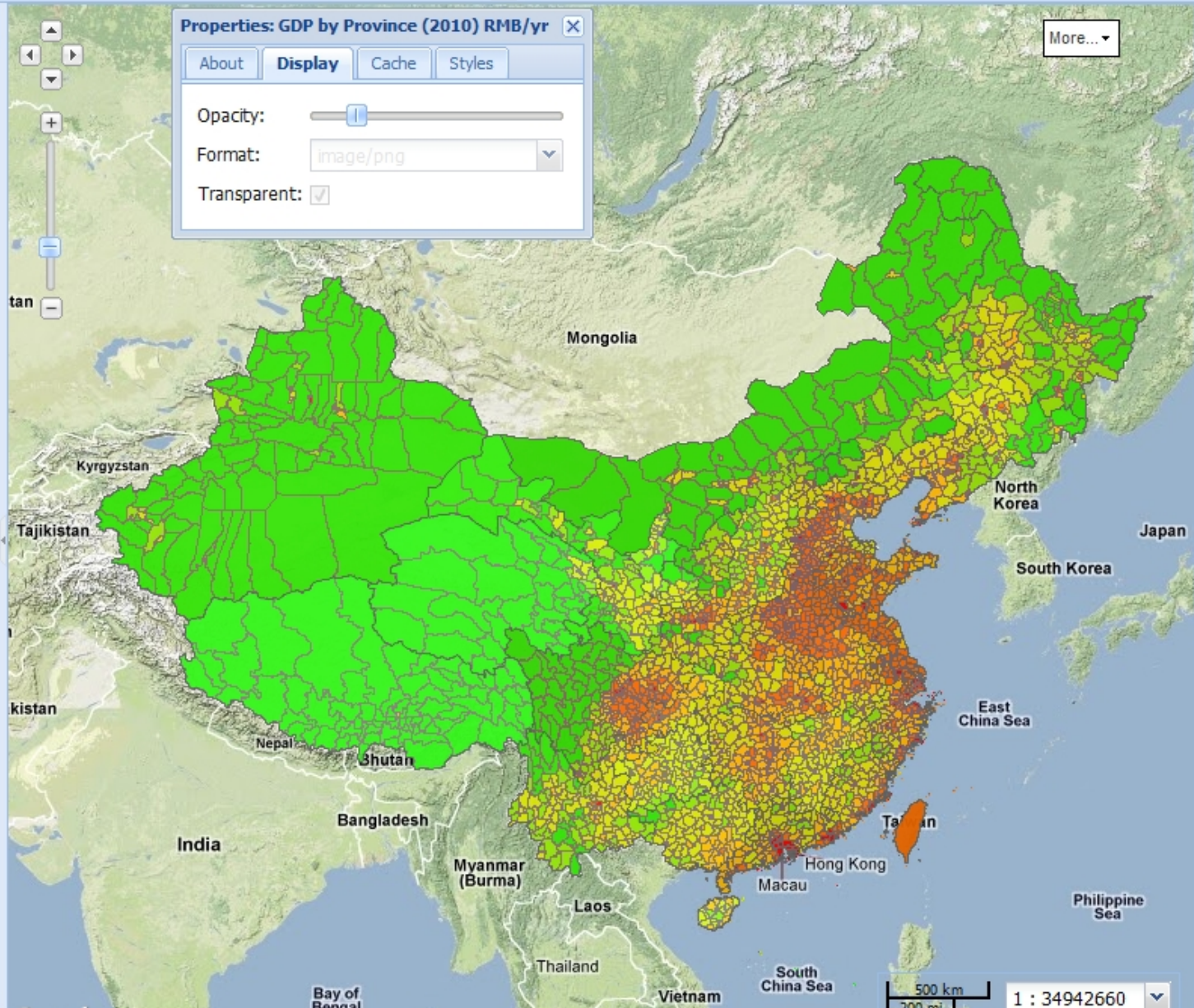
Properties: GDP by Province (2010) RMB/yr [X]

[About](#) | **Display** | [Cache](#) | [Styles](#)

Opacity:

Format:

Transparent:



Data | **Legend**

Railways (2005)



Population Density (2000) km2

- 0 - 50
- 51 - 100
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 5000
- 5001 -



Data | **Legend**








High Speed Railways (2011)

-  200 kmh
-  250 kmh
-  300 kmh
-  350 kmh

Railways (2005)

- 

Population Density (2000) km2

-  0 - 50
-  51 - 100
-  101 - 250
-  251 - 500
-  501 - 1000
-  1001 - 5000
-  5001 -



Data | **Legend**

High Speed Rail Stations (2010)

- others
- Infrequent Service Station
- Frequent Service Station
- Important Station
- Major Terminal Station








High Speed Railways (2011)

-  200 kmh
-  250 kmh
-  300 kmh
-  350 kmh

Railways (2005)

- 

Population Density (2000) km2

-  0 - 50
-  51 - 100
-  101 - 250
-  251 - 500
-  501 - 1000
-  1001 - 5000
-  5001 -



Data **Legend**

- Watersheds (2000)
- Alxa River
 - Baicheng River
 - Dulong River - Irrawaddy River
 - Dzungarian
 - Erdos River
 - Hai River
 - Heilong River
 - Huai River
 - Ili River
 - Inner Mongolia River
 - Irtys River
 - Lancang River - Mekong River
 - Liao River
 - Liaodong Peninsula
 - Liaoxi and Hebei Coastal
 - Luan River
 - Nu River - Salween River
 - Pearl River
 - Qaidam
 - Qangtang
 - Sen Ge Zang Bu River - Indus River
 - Shandong Peninsular
 - South Tibet
 - Southeast China Coastal
 - Southeast Qiong, Lei and Gui Coast
 - Suifen River
 - Tarim
 - Tumen River
 - Upper Yangtze River
 - Wuyuer River



Data | **Legend**

Water Quality (2005)

- 0.00 - 1.00
- 1.01 - 2.00
- 2.01 - 3.00
- 3.01 - 5.00
- 5.01 - 6.00

Watersheds (2000)

- Alxa River
- Baicheng River
- Dulong River - Irrawaddy River
- Dzungarian
- Erdos River
- Hai River
- Heilong River
- Huai River
- Ili River
- Inner Mongolia River
- Irtys River
- Lancang River - Mekong River
- Liao River
- Liaodong Peninsula
- Liaoxi and Hebei Coastal
- Luan River
- Nu River - Salween River
- Pearl River
- Qaidam
- Qangtang
- Sen Ge Zang Bu River - Indus River
- Shandong Peninsular
- South Tibet
- Southeast China Coastal



Data Legend

China Rivers (Sorted by Basin)

-  Heilong (Amur) Basin
-  Songhua (Songari) Basin
-  Wusuli (Ussuri) Basin
-  Tumen - Yalu Basin
-  Liao Basin
-  Liaoxi - Liaodong Coast Basin
-  Luan Basin
-  Hai Basin
-  Zhangwei Basin
-  Ordos Basin
-  Huang He (Yellow River) Basin
-  Fen Basin
-  Wei (Luo - Jing) Basin
-  Shandong Basin
-  Huai Basin
-  Yun He (Grand Canal) Basin
-  Xiaoyou Hu Basin
-  Yangzi Core Basin
-  Lower Yangzi Basin
-  Yalong Basin
-  Dadu Basin
-  Fujiang Basin
-  Wujiang Basin
-  Dongting Hu Basin
-  Han Shui Basin
-  Gan - Boyang Basin
-  Taihu - Yangzi Delta Basin
-  Fuchun - Yong Jiang Basin
-  Ou Jiang - Ling Jiang - Feiyun Jiang
-  Min Jiang Basin



Data | **Legend**

- China Rivers (Sorted by Basin)
- Heilong (Amur) Basin
 - Songhua (Songari) Basin
 - Wusuli (Ussuri) Basin
 - Tumen - Yalu Basin
 - Liao Basin
 - Liaoxi - Liaodong Coast Basin
 - Luan Basin
 - Hai Basin
 - Zhangwei Basin
 - Ordos Basin
 - Huang He (Yellow River) Basin
 - Fen Basin
 - Wei (Luo - Jing) Basin
 - Shandong Basin
 - Huai Basin
 - Yun He (Grand Canal) Basin
 - Xiaoyou Hu Basin
 - Yangzi Core Basin
 - Lower Yangzi Basin
 - Yalong Basin
 - Dadu Basin
 - Fujiang Basin
 - Wujiang Basin
 - Dongting Hu Basin
 - Han Shui Basin
 - Gan - Boyang Basin
 - Taihu - Yangzi Delta Basin
 - Fuchun - Yong Jiang Basin
 - Ou Jiang - Ling Jiang - Feiyun Jiang
 - Min Jiang Basin



Identify Results

[Reset](#)

Name	
China Rivers (Sorted by Basin)	
孔雀河	
孔雀河	
孔雀河	
Watersheds (2000)	
Tarim	
Tarim	

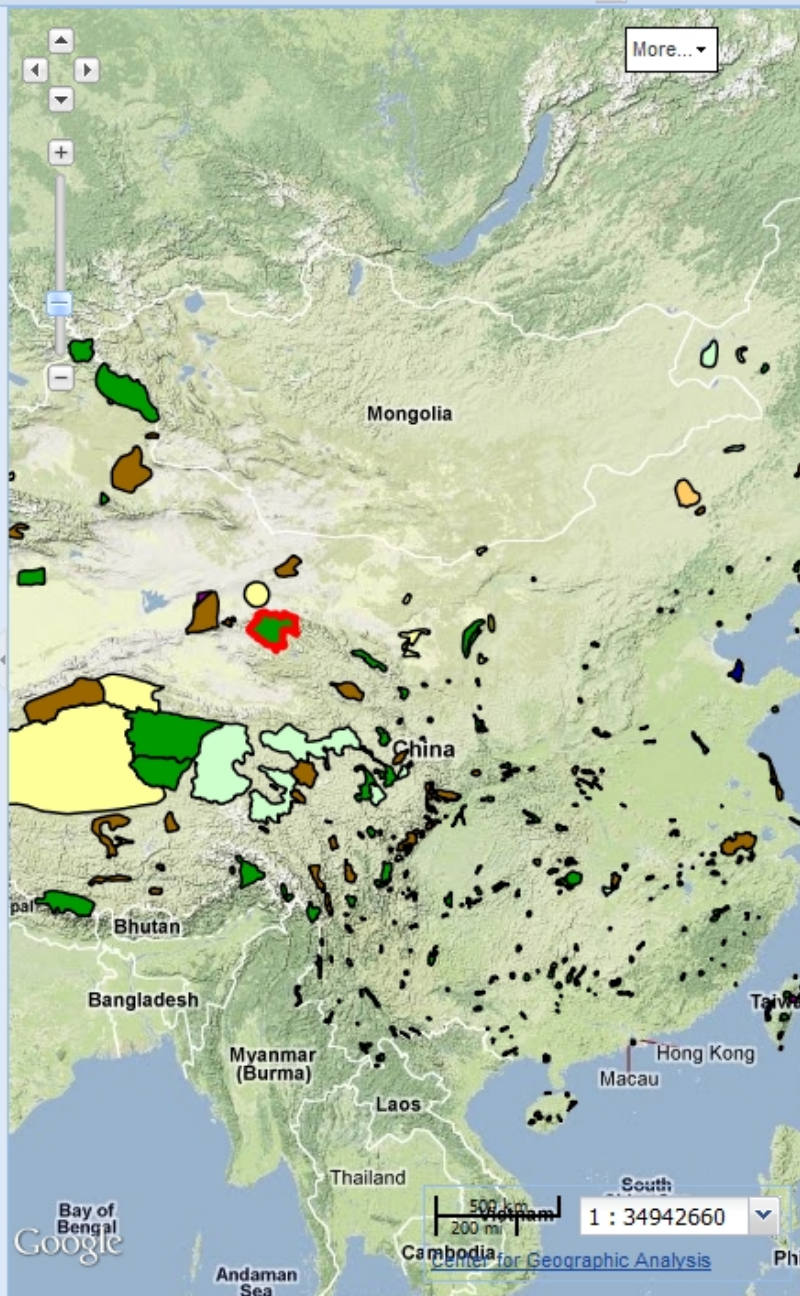
Feature Details

Name	孔雀河
Basin_Nm	Tarim Basin
Region	Interior
Basin	KN
Basinum	53.0
Level_Rive	4
Level_Lake	0
Geo_Code	21010
OBJECTID_1	2008
the_geom	undefined

Data | **Legend**

Nature Reserve Areas (2008)

- Barren land ecosystem
- Coastal ecosystem
- Forest ecosystem
- Geological site
- Grass land ecosystem
- Inland wetland ecosystem
- Paleontological site
- Wild life
- Wild vegetation



Identify Results

[Reset](#)

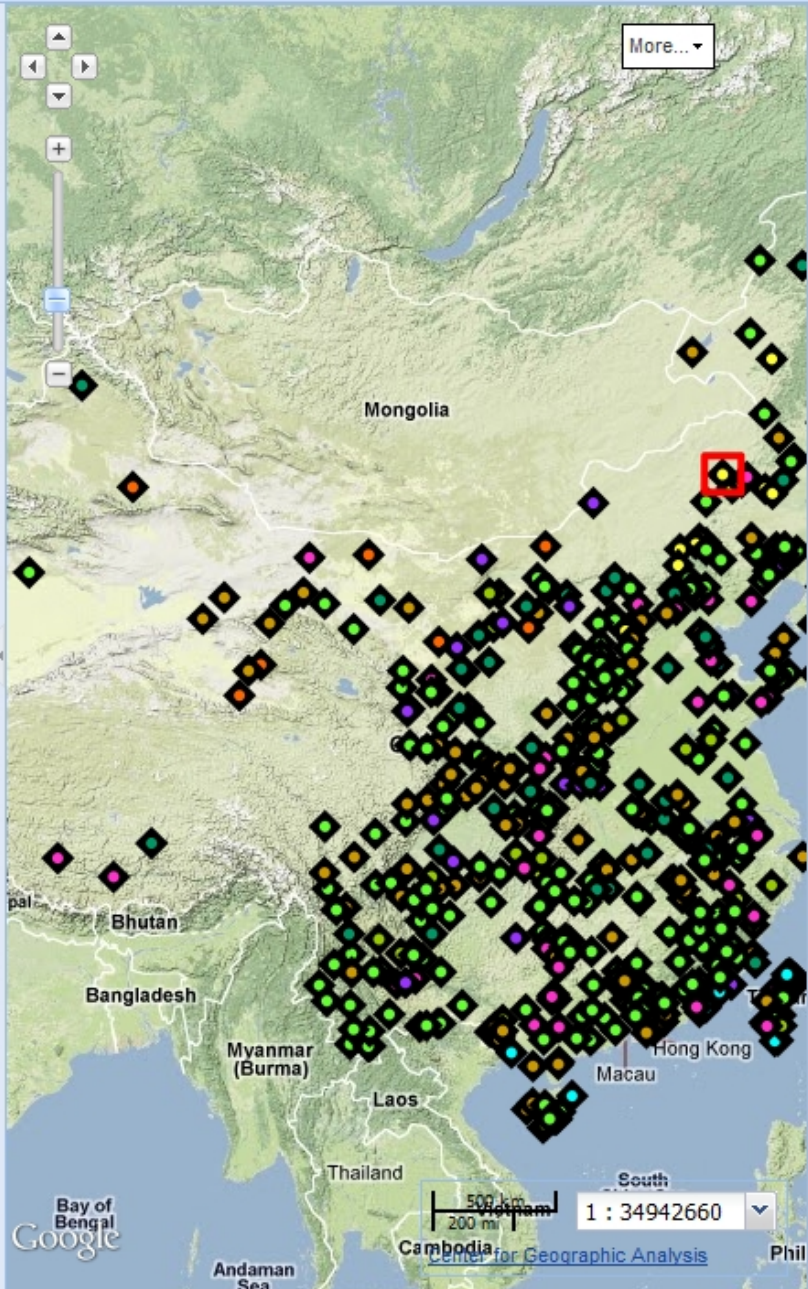
Name	
Nature Reserve Areas (2008)	
尖峰岭	

Feature Details

Name	尖峰岭
OBJECTID	72
the_geom	undefined
Type	Forest ecosystem
Size	10 - 1000 sqkm
Bcode	13
Bgm	3
Class_1	National
Blx	1

Data | **Legend**

- Nature Reserve Points (2008)
- Barren land ecosystem
 - Coastal ecosystem
 - Forest ecosystem
 - Geological site
 - Grass land ecosystem
 - Inland wetland ecosystem
 - Paleontological site
 - Wild life
 - Wild vegetation



Identify Results

[Reset](#)

Name
Nature Reserve Points (2008)

Feature Details

the_geom	undefined
Name	古日格斯台
OBJECTID	114
Type	Grass land ecosystem
Size	1000 - 10000 sqkm
Cnty_Nm	Xiwuzhumuqin
Dist_Nm	Xilinguole
Prov_Nm	Neimenggu
Cntygb	152526
Zrgj34_Id	0
Bgm	2
Bcode	52
Class_1	Provincial
Blx	5

Data Legend

High Speed Rail Stations (2010)

- others
- Infrequent Service Station
- Frequent Service Station
- Important Station
- Major Terminal Station










High Speed Railways (2011)

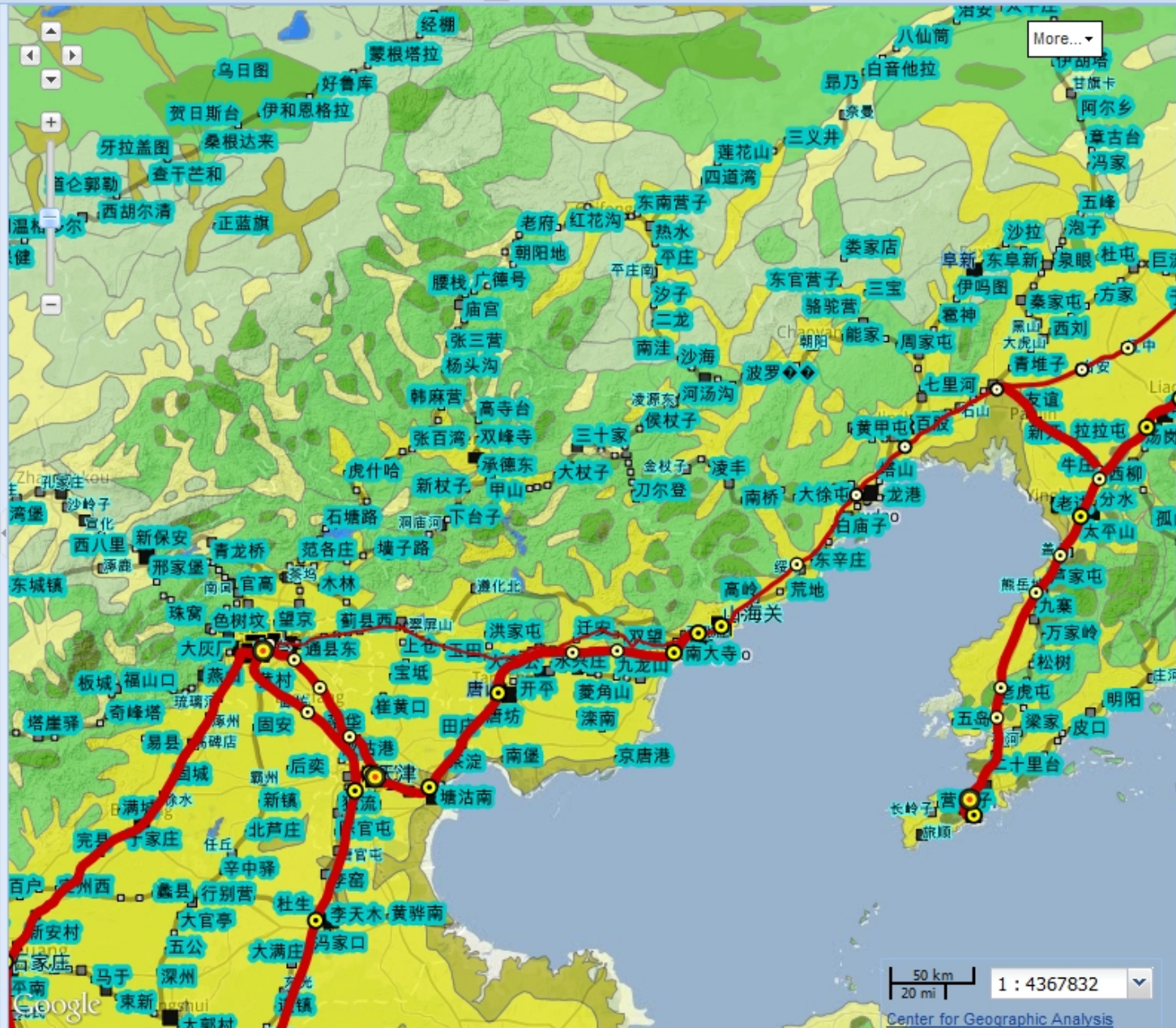
-  200 kmh
-  250 kmh
-  300 kmh
-  350 kmh

Railway Stations (2010)

- Grade 4 and 5
- Grade 4
- Grade 3
- Grade 2
- Grade 1
- Grade Special

Railways (2005)

-  Railways (2005)
- Vegetation (2000)**
-  coniferous forest
-  broad-leaved forest
-  shrubs and natural vegetation
-  desert
-  grassland and savanna
-  meadow and herbaceous swamp
-  single crop and cold cash crops
-  double crop and deciduous orchard



Powered by [WorldMap](#)

[Add Layers](#) | [Save](#) | [Identify](#) | [Link](#) | [Print](#) | [About](#) | [Google Earth](#) | [Street View](#) |

[Revisions](#) | [Share Map](#)

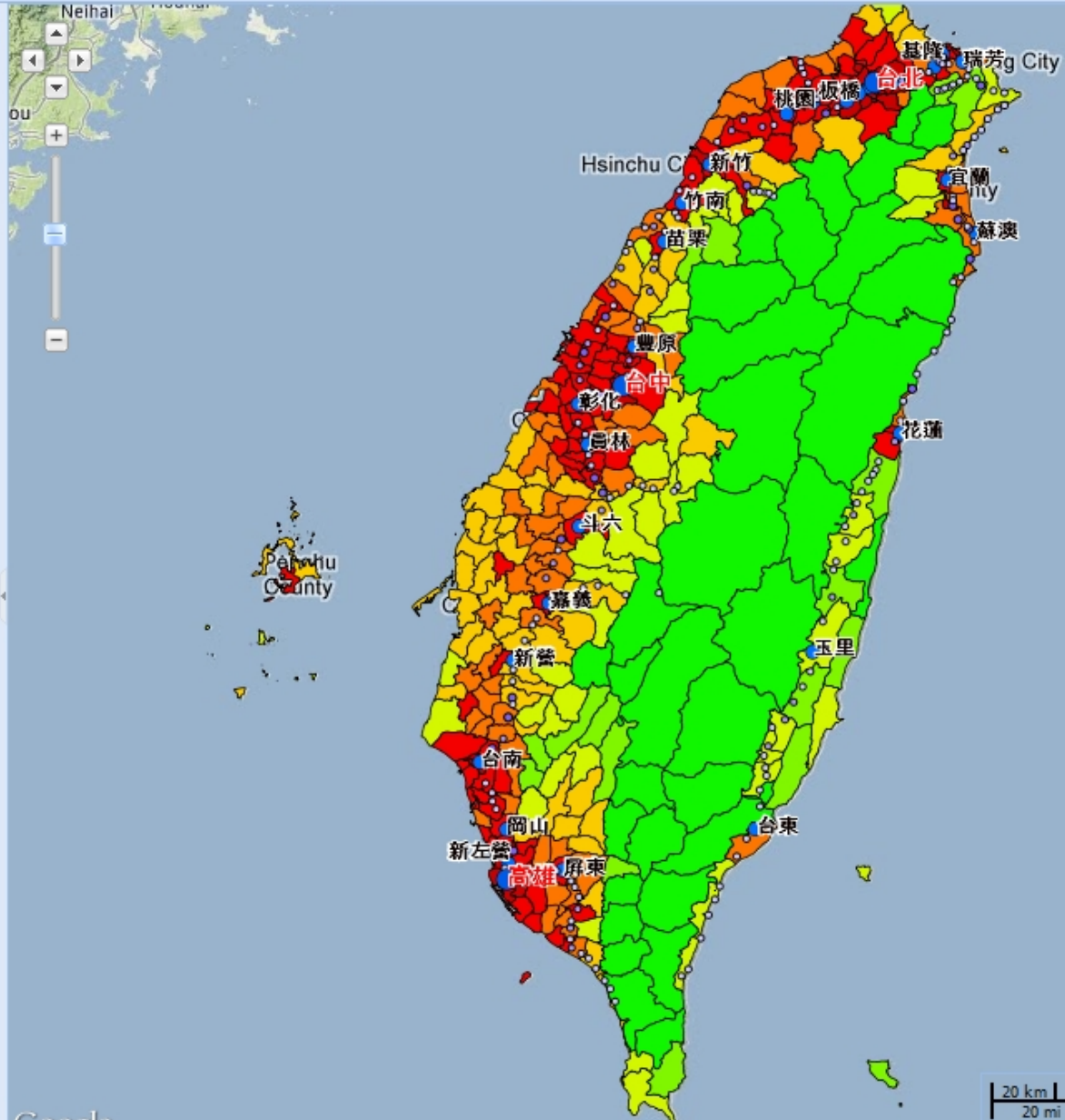
Data **Legend**

Raiway Stations (Taiwan)

- Grade Special
- Grade 1
- Grade 2
- Grade 3
- Grade 4

Taiwan, Pop Density (2000) km2

- 0 - 50
- 51 - 100
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 5000
- 5001 -



[More...](#)

[Search](#) [Reset](#)

Google

20 km / 20 mi | 1 : 2183916

[Center for Geographic Analysis](#)

Data Legend

High Speed Rail Stations (2010)

- others
- Infrequent Service Station
- Frequent Service Station
- Important Station
- Major Terminal Station

High Speed Railways (2011)

- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

Railways (2005)

- Qing Courier Stops
- Qing Courier Routes



Data Legend

High Speed Rail Stations (2010)

- others
- Infrequent Service Station
- Frequent Service Station
- Important Station
- Major Terminal Station

High Speed Railways (2011)

- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

Railways (2005)

-

Qing Courier Stops

-

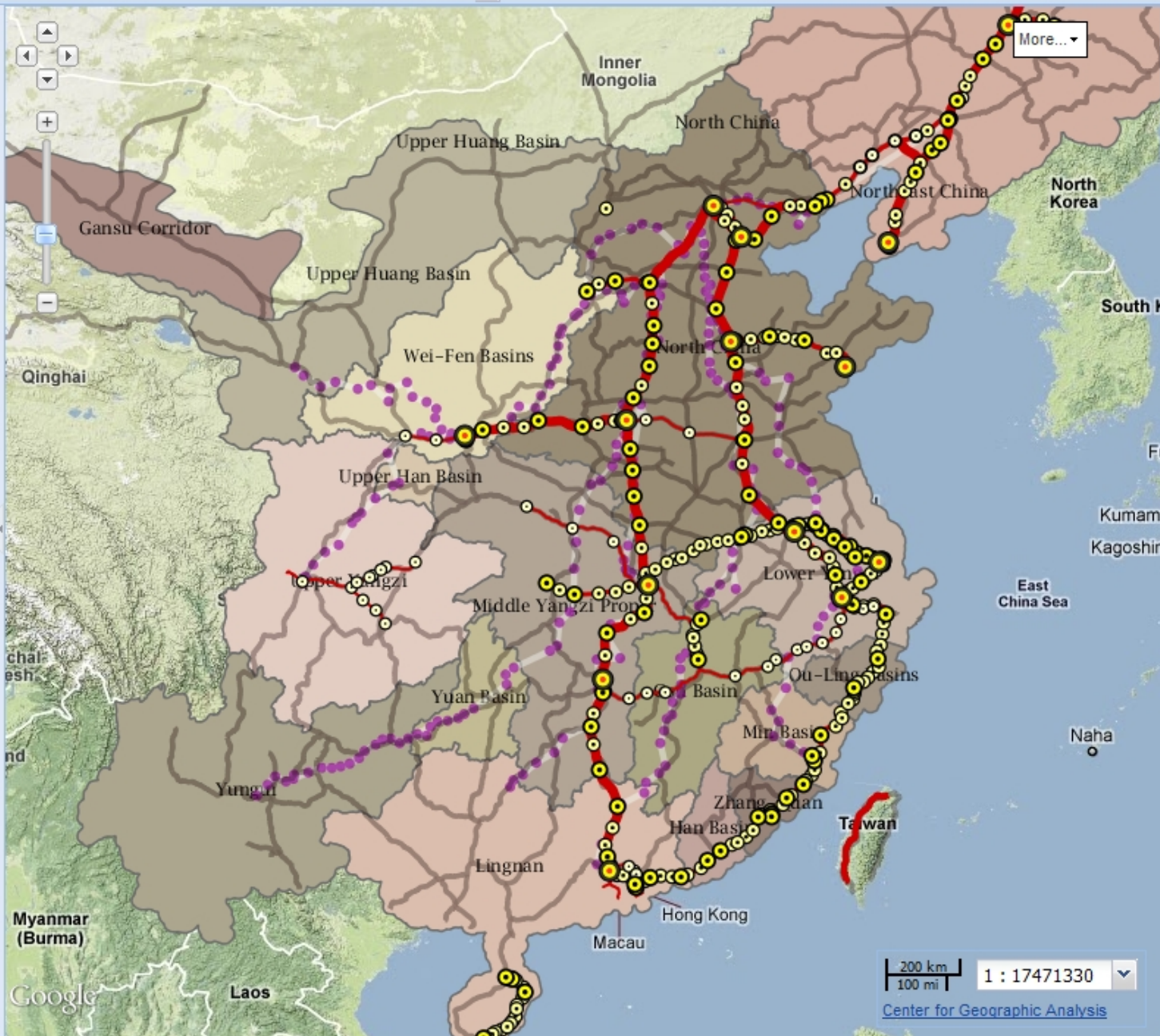
Qing Courier Routes

-

Physiographic Macroregions

-
-
-
-
-
-
-
-
-
-
-
-
-

Enter search... [Search](#) [Reset](#)



Data | **Legend**

N. Song Entry Exams (Persons)

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 30
- 31 - 45
- 46 - 90
- 91 - 215

High Speed Railways (2011)

- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

N. Song Exams (Heat Map)

- n/a
- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 30
- 31 - 45
- 46 - 90
- 91 - 215

Physiographic Macroregions

- [Color swatches]



Data | **Legend**

Ming Entry Exams (Persons)

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 30
- 31 - 45
- 46 - 90
- 91 - 215

High Speed Railways (2011)

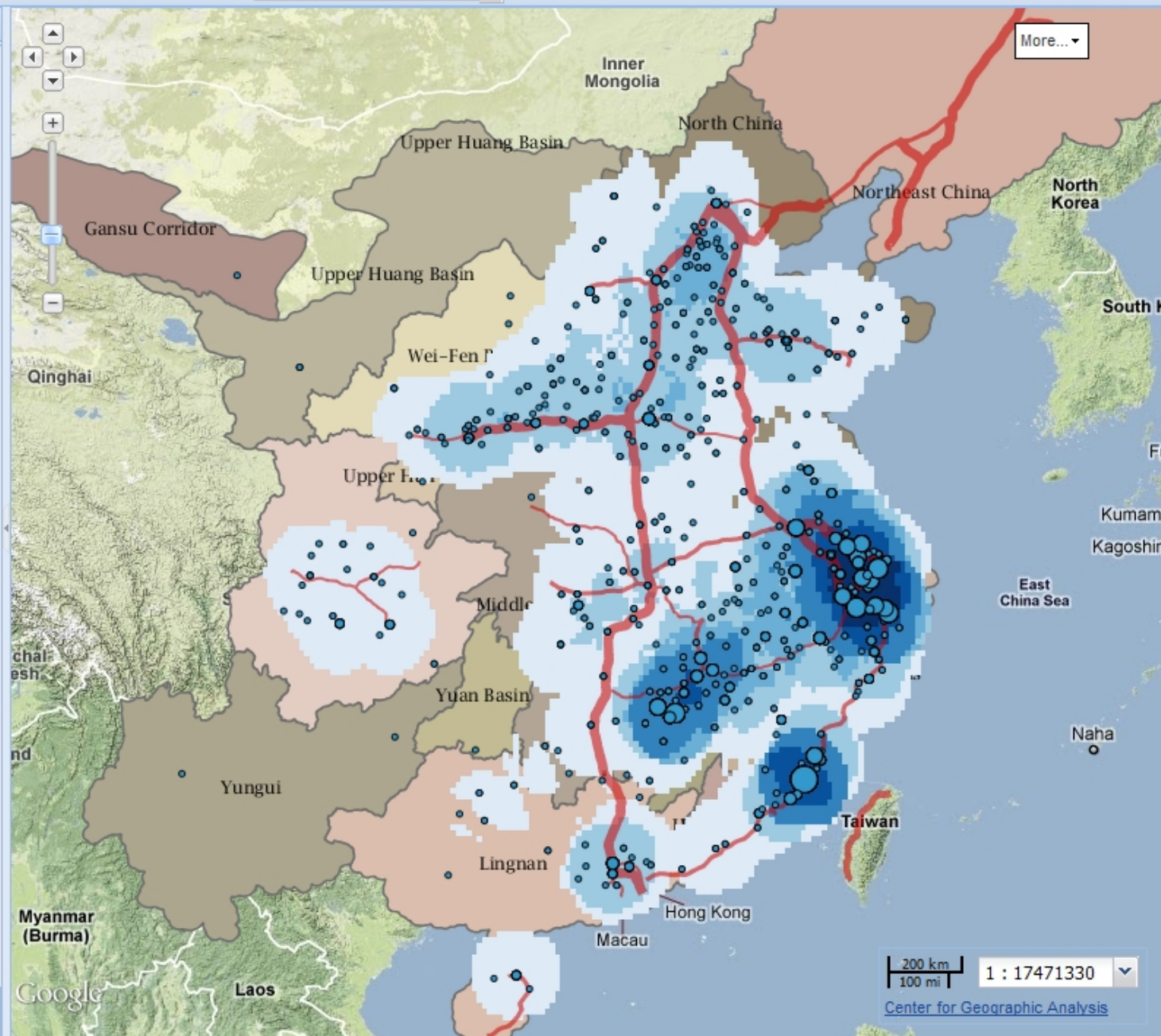
- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

Ming Exams (Heat Map)

- n/a
- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 30
- 31 - 45
- 46 - 90

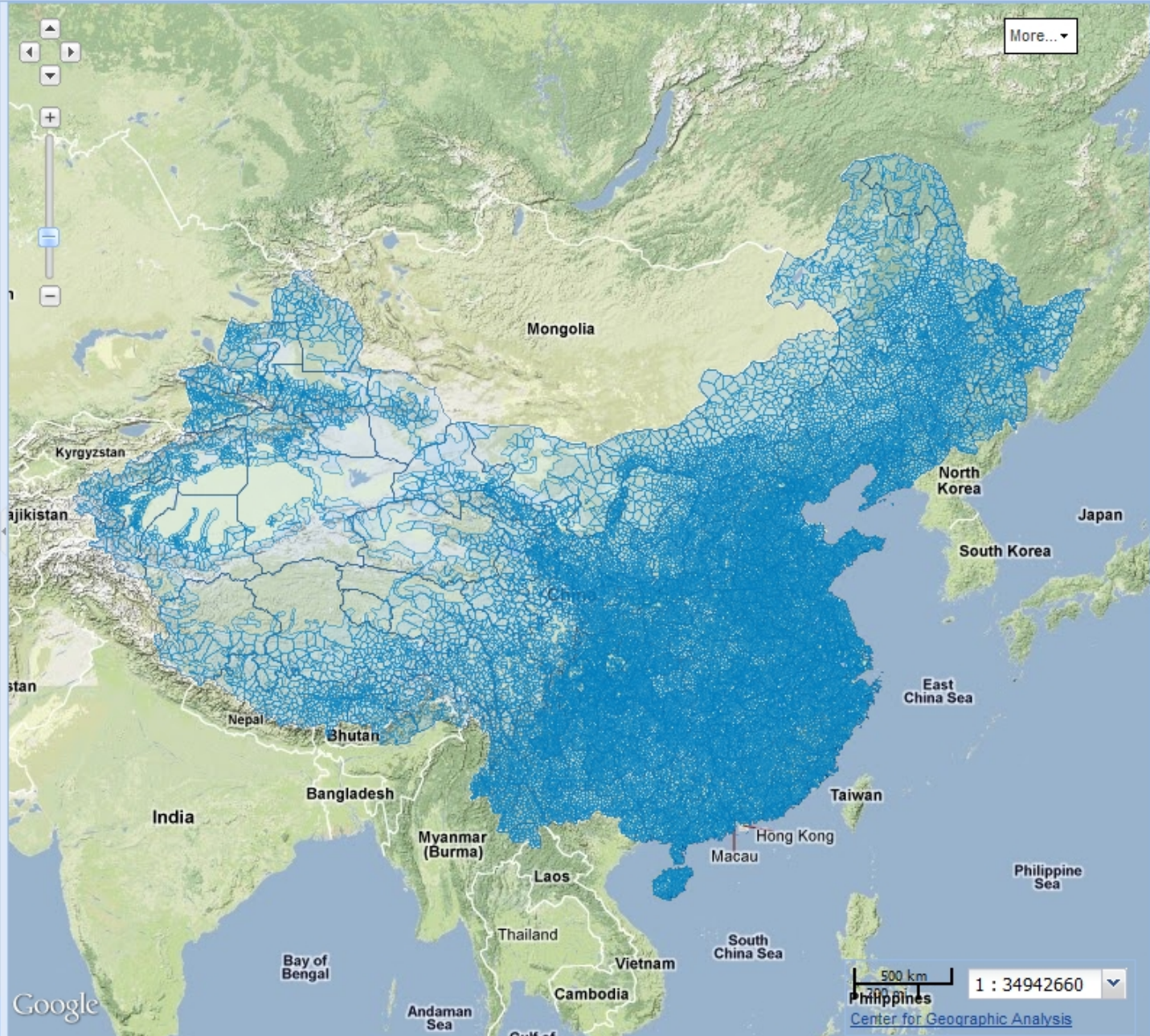
Physiographic Macroregions

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- 35
- 36
- 37
- 38
- 39
- 40
- 41
- 42
- 43
- 44
- 45
- 46
- 47
- 48
- 49
- 50



Data | Legend

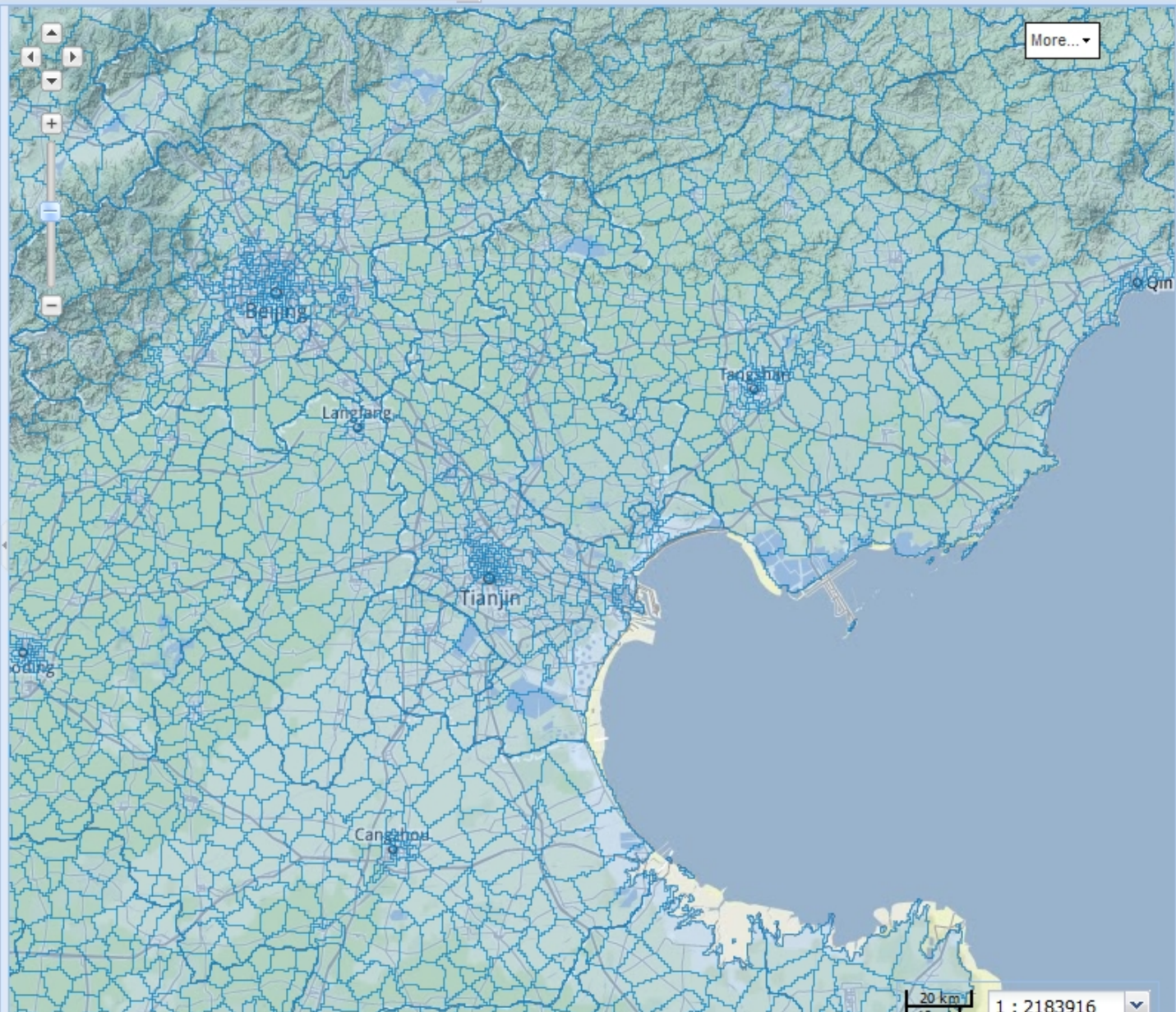
- Map Layers
 - Historical Places
 - Transportation
 - Research Projects
 - Census
 - Population by Province (2010) km2
 - Population Density (2000) km2
 - Population Density (1990) km2
 - Population Density (1982) km2
 - Population Density (1964) km2
 - Population Density (1953) km2
 - Sex Ratio (2000)
 - Sex Ratio (1990)
 - Sex Ratio (1982)
 - Population Age 65+ (2000)
 - Population Age 65+ (1990)
 - Education
 - Economy
 - GDP (2000) RMB/year
 - GDP (1996) RMB/year
 - GDP (1990) RMB/year
 - GDP by Province (2010)
 - GDP by Province (2004)
 - Energy
 - Environment
 - Public Health
 - Boundaries
 - Time Zones
 - Urban Areas Worldwide
 - Townships (2000) China Data Cer
 - Prefectures (2000) China Data Cer
 - Provinces (1997)
 - Climate & Weather
 - Utilities & Infrastructure
 - Topo Basemaps

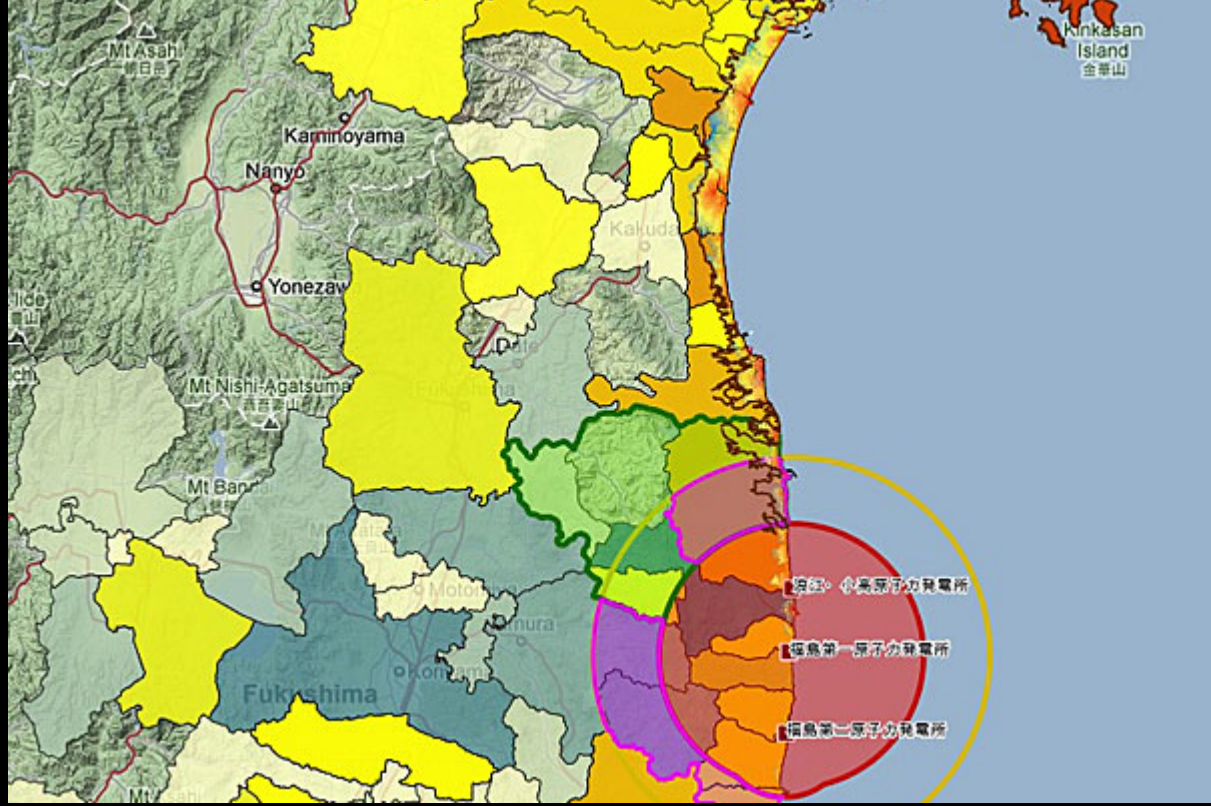


Data | Legend

Map Layers

- Historical Places
- Transportation
- Research Projects
- Census
 - Population by Province (2010) km2
 - Population Density (2000) km2
 - Population Density (1990) km2
 - Population Density (1982) km2
 - Population Density (1964) km2
 - Population Density (1953) km2
 - Sex Ratio (2000)
 - Sex Ratio (1990)
 - Sex Ratio (1982)
 - Population Age 65+ (2000)
 - Population Age 65+ (1990)
- Education
- Economy
 - GDP (2000) RMB/year
 - GDP (1996) RMB/year
 - GDP (1990) RMB/year
 - GDP by Province (2010)
 - GDP by Province (2004)
- Energy
- Environment
- Public Health
- Boundaries
 - Time Zones
 - Urban Areas Worldwide
 - Townships (2000) China Data Cen
 - Prefectures (2000) China Data Cer
 - Provinces (1997)
- Climate & Weather
- Utilities & Infrastructure
- Topo Basemaps





JapanMap

website: <http://worldmap.harvard.edu/japan>



Japan Sendai Earthquake Data Portal

[Home](#)[Data](#)[Web Maps](#)[Contribute](#)[Maps](#)[RSS](#)[Site map](#)Search:

home

[View](#)[Track](#)

In response to the Tohoku Earthquake and Tsunami Mar 11th 2011, the **Harvard Center for Geographic Analysis** has launched this web portal.

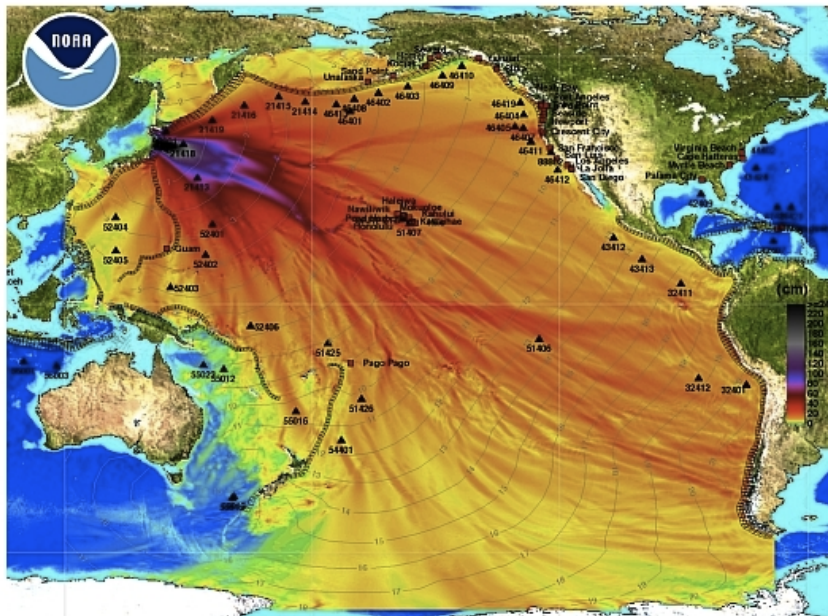
If you have data to share, or need an upload point for inter-agency data exchange, please contact us: chgis@fas.harvard.edu

The main point of contact of the Japanese Government for Earthquakes, is [here](#).

The USGS Earthquake Hazards Program Summary of the Honshu event is [here](#).

An excellent background series on the regional geography and impact of the event has been assembled by the Tohoku Geographical Association [here](#).

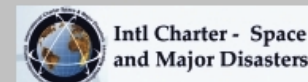
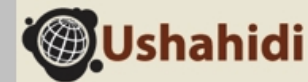
General Overview of the 2011 Sendai 8.9 earthquake on Wikipedia, and a **history of earthquakes in Japan**.



Relief Web News

- Japan: Earthquake and Tsunami Operations Update n° 7
- Japan: Restoring health in Japan: Dental clinics bring back care to a devastated region
- Japan: Japan One Year: Diary 2 Tsunami children cope with parents stress
- Japan: Mercy Relief returns to tohoku to serve survivors' winter woes
- Japan: Radiation experts begin UN assessment of effects of Fukushima nuclear accident
- Japan: UN nuclear agency considering Fukushima office
- Philippines (the): UNISDR Chief compares typhoon damage in Mindinao to Japanese tsunami
- World: Annual Report 2011
- World: WFP and Logistics Companies Join Forces to Prepare Countries for

Click On These Logos for Major Data Sources:



Evacuation Centers Status [22 Mar 2011]



emergency response | evacuation | maps
resource format: pdf
- [Map Action](#) - -

Search and Rescue Atlases [NGIA]



analysis | atlas | emergency response
| imagery | search and rescue
resource format: kml
- [NGIA](#) - -

Tokyo Power Outage - Precinct Group Numbers and Map [14 Mar 2011]



emergency response | energy | power outage
| TEPCO
resource format: pdf
- [Tokyo Electric Power Company](#) - -

Food Supplies & Evacuation Sites [Google Map] 炊き出しまつぷ、緊急避難場所



emergency response | evacuation | food
| webmaps
resource format: web service
- [Edward Vielmetti](#) - -

- o [Natori](#) (3)
- o [news](#) (1)
- o [Niigata](#) (1)
- o [nuclear](#) (1)
- o [nuclear power plants](#) (7)
- o [Ofunato](#) (1)
- o [Ofunato Port](#) (1)
- o [Okuma](#) (1)
- o [Onagawa Port](#) (1)
- o [open source](#) (1)
- o [overview](#) (1)
- o [PDC visualization](#) (1)
- o [photos](#) (1)
- o [placenames](#) (2)
- o [points](#) (1)
- o [polygons](#) (1)
- o [populated places](#) (1)
- o [port structures](#) (1)
- o [power outage](#) (2)
- o [radiation](#) (4)
- o [radioactivity](#) (4)
- o [railway stations](#) (1)
- o [railways](#) (1)
- o [remote sensing](#) (3)
- o [remote sensing analysis](#) (2)
- o [reports](#) (5)
- o [rescue](#) (1)
- o [Rikuzentakata](#) (1)
- o [rivers](#) (2)
- o [roads](#) (3)
- o [routes](#) (1)
- o [ruins](#) (1)
- o [run-up height](#) (1)
- o [satellite imagery](#) (21)
- o [search and rescue](#) (1)
- o [seismic](#) (2)
- o [seismic damage](#) (1)
- o [seismological data](#) (6)
- o [seismology](#) (4)



DIGITAL ARCHIVE of
**JAPAN'S 2011
DISASTERS**
HARVARD UNIVERSITY

Japan Crisis Map
Telescience



GEO GROUP ON
EARTH OBSERVATIONS

GEOFABRIK
neogeografie // software // beratung

Ushahidi

UN-SPIDER

国土交通省
国土地理院
Geospatial Information Authority of Japan

Intl Charter - Space
and Major Disasters

ReliefWeb

gc **geocommons**

2011年東日本大震災デジタルアーカイブ

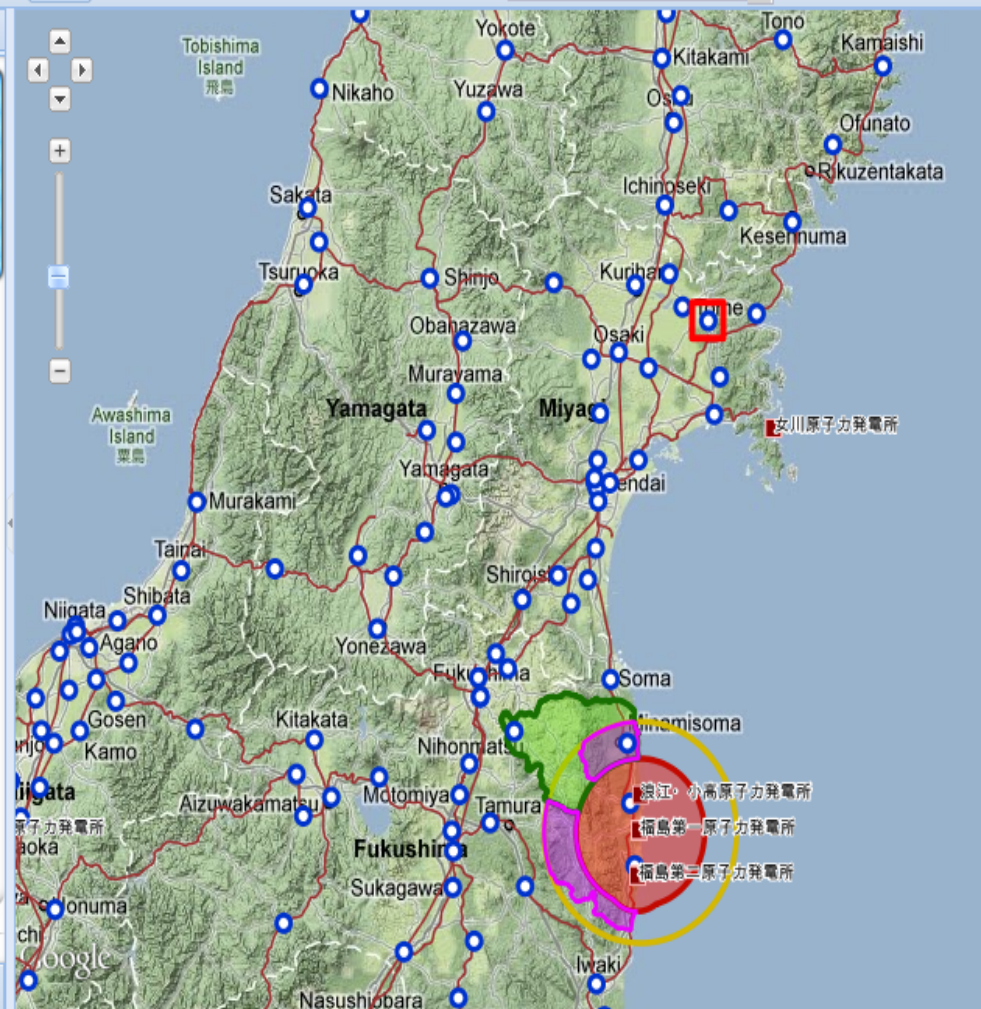
Powered by WorldMap

[Sign in](#)

[Add Layers](#) [Save](#) [Create Feature](#) [Edit Feature](#) [Identify](#) [Link](#) [Print](#) [About](#) [Google Earth](#) [Street View](#) [Jump to...](#)

Data Legend

- Map Layers
 - Utilities & Infrastructure
 - Nuclear Power Plants (原発) - MLIT
 - Renewable Energy (自然工ネ)
 - Thermal Power Plants (火力発)
 - Hospitals (病院) - MLIT
 - Fire Stations (消防署) - MLIT
 - Police Stations (警察) - MLIT
 - Municipal Offices (公共団体) - MLIT
 - Schools (学校) - MLIT
 - Sea Ports (港湾) - MLIT
 - Police Boxes (交番) - MLIT
 - Fish Ports (漁港) - MLIT
 - Place Locations
 - Registered Religious Buildings ()
 - Rivers, Streams, Lakes
 - Lakes (湖沼) - MLIT
 - Building Footprints
 - Minamisanriku Building Footprint
 - Onagawa Building Footprint (1:25000)
 - Ishinomaki Building Footprint (1:25000)
 - Sendai Building Footprint (1:25000)
 - Shiogama Building Footprint (1:25000)
 - Imagery & Base Maps
 - Before Tsunami (03/01/07) Rikuzen
 - After Tsunami (03/14/11) Rikuzen
 - 1978 Southeast Tohoku 1:25000



Enter search... [Search](#) [Reset](#)

Add Layers Save Create Feature Edit Feature Identify Link Print About Google Earth Street View Jump to...

Data Legend

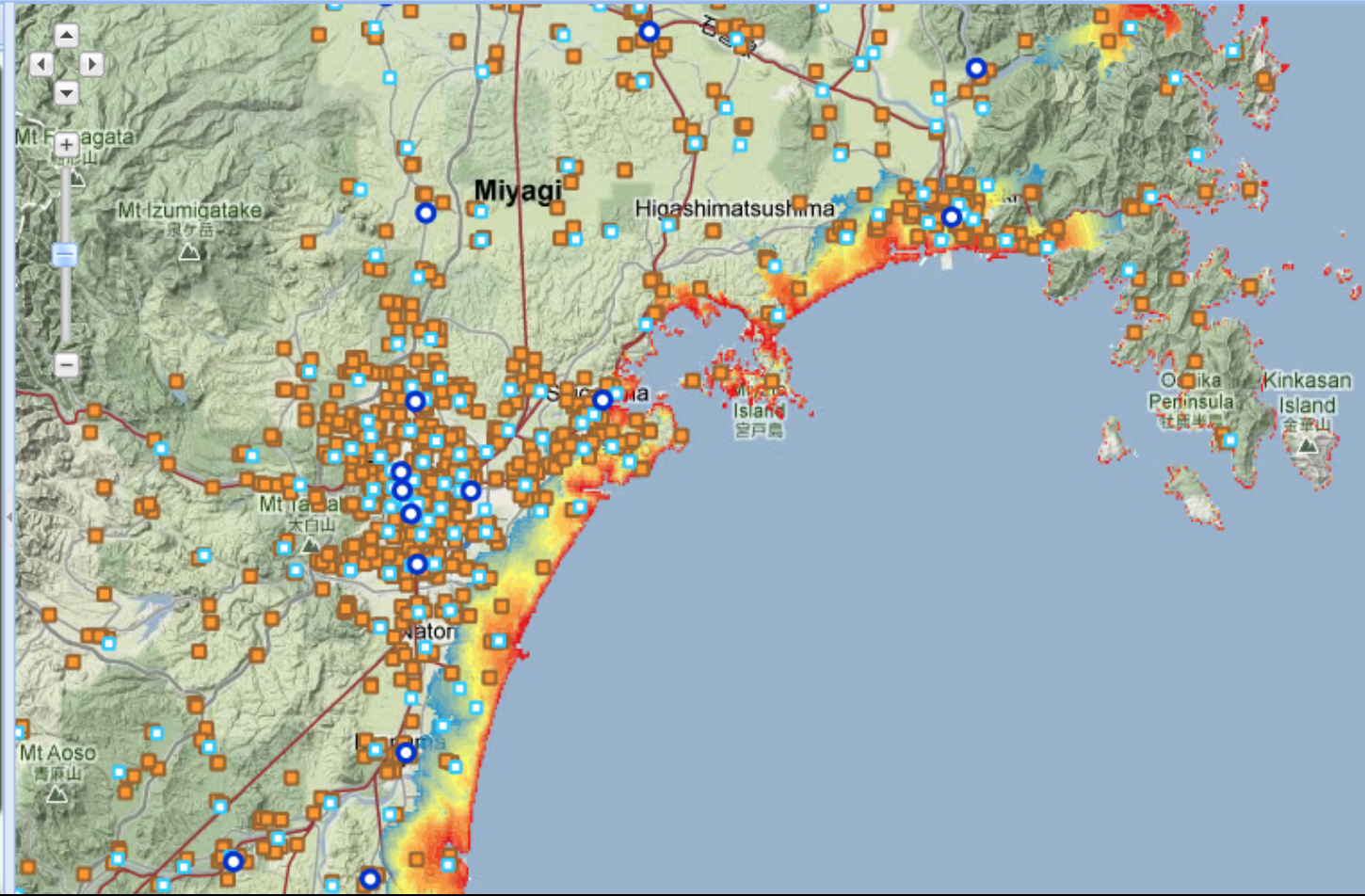
Police Stations (警察) - MLIT
●

Police Boxes (交番) - MLIT
■

Schools (学校) - MLIT
■


Tsunami Flood Model - Lorenz Dolezalek


- 0.888888889
- 1.333333333
- 1.777777778
- 2.222222222
- 2.666666667
- 3.111111111
- 3.555555556
- 4
- 4.444444444
- 4.888888889
- 5.333333333
- 5.777777778
- 6.222222222
- 6.666666667
- 7.111111111





[Add Layers](#) | [Save](#) | [Create Feature](#) | [Edit Feature](#) | [Identify](#) | [Link](#) | [Print](#) | [About](#) | [Google Earth](#) | [Street View](#) |

Data | **Legend**













Police Stations (警察) - MLIT


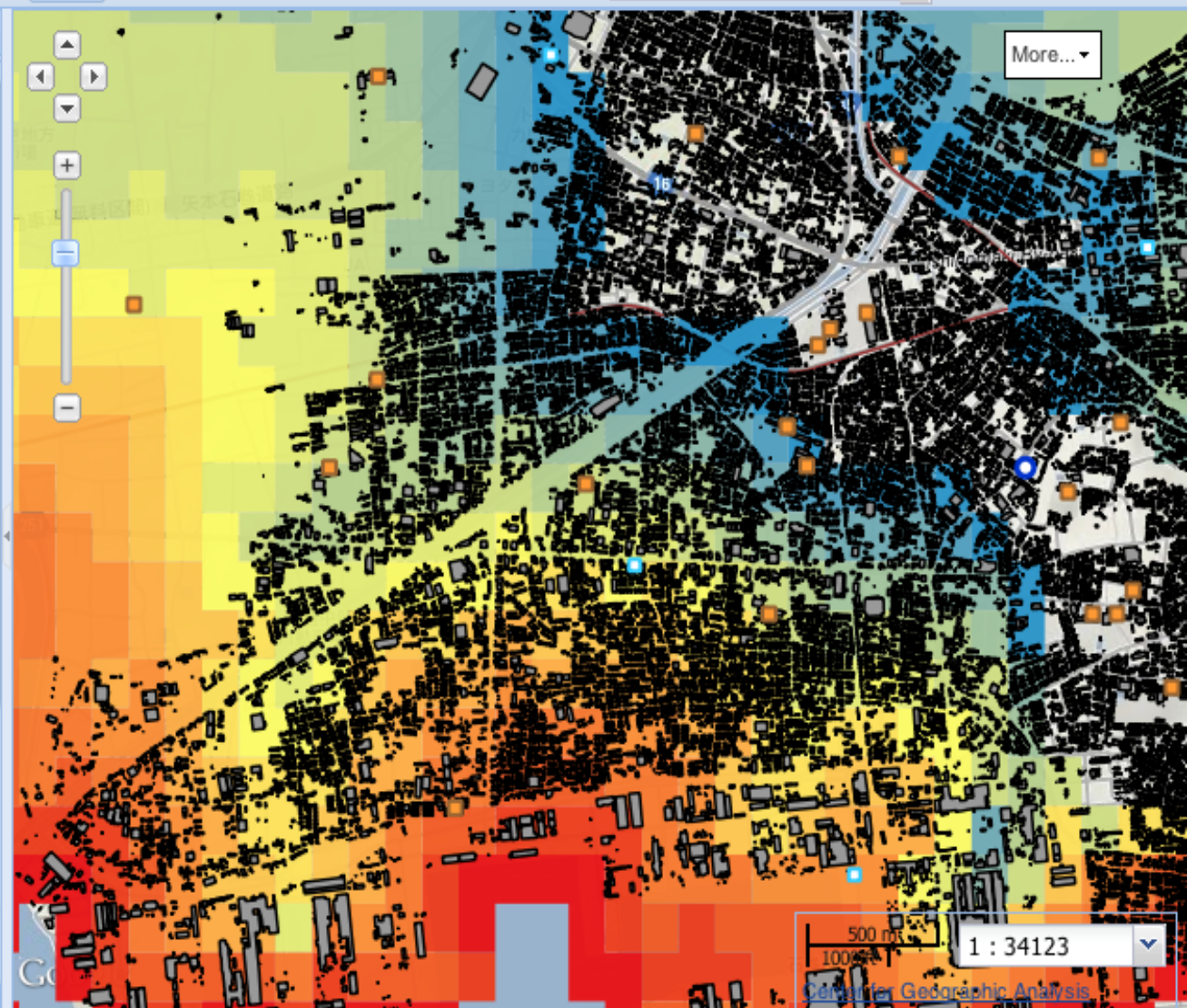
Police Boxes (交番) - MLIT


Schools (学校) - MLIT


Ishinomaki Building Footprint (1:2500) - GSI


Tsunami Flood Model - Lorenz Dolezalek

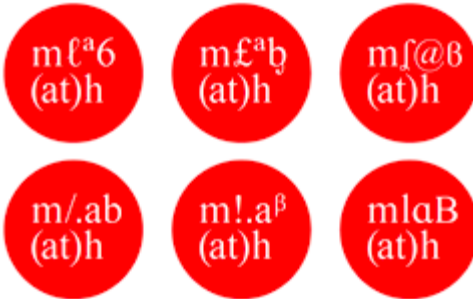
-  0.888888889
-  1.333333333
-  1.777777778
-  2.222222222
-  2.666666667
-  3.111111111
-  3.555555556
-  4
-  4.444444444
-  4.888888889
-  5.333333333
-  5.777777778



Enter search Search Reset

500 m
1000 m
1 : 34123
Center for Geographic Analysis

metaLAB (at) Harvard



2011年
東日本大震災
デジタルアーカイブ

ハーバード大学エドウィン・O・ライシャワー日本研究所

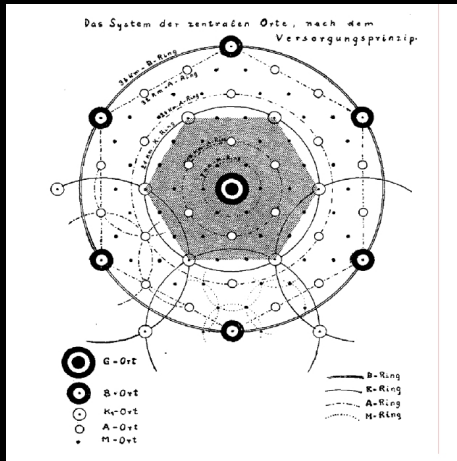
現在の
アーカイブ



DIGITAL ARCHIVE of
JAPAN'S 2011
DISASTERS

HARVARD UNIVERSITY

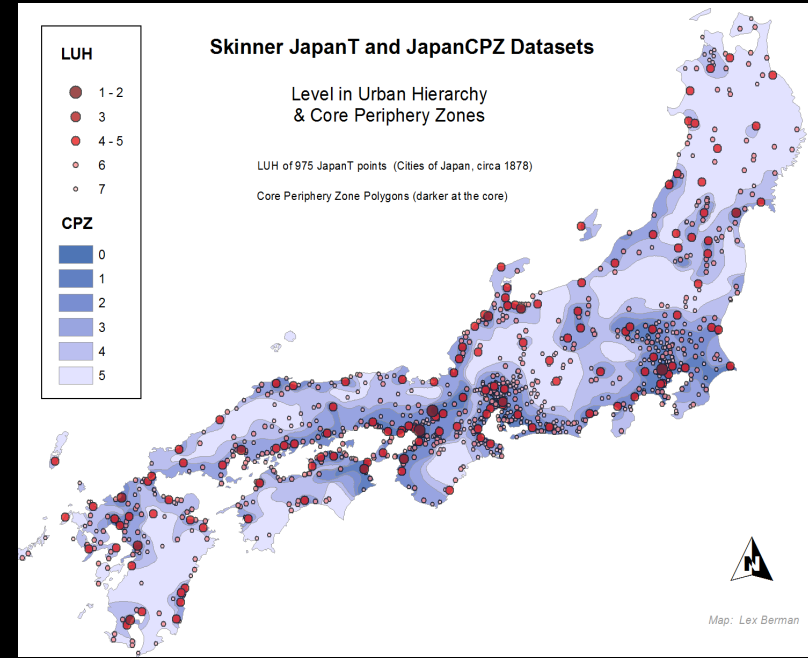
これからの
アーカイブ



MACROREGIONAL ZONING

	Inner Core 1	Outer core 2	Near Periphery 3	Far Periphery 4	5	6	7	Row means
1	84.5	82.6						84.2
2	83.2	79.5	79.0					80.0
3		79.0	78.6		75.1		72.0	78.6
4	75.2		70.1		66.1	65.2	63.4	68.2
5	65.3	63.8	57.0	56.9	53.9	52.9	49.0	58.5
6	58.8	57.7	54.1	48.4	46.4	42.3		53.1
7				44.4			38.7	43.0
8	58.7	53.1	48.0		42.6	39.5	35.6	42.4
Column means	70.3	62.1	53.6	48.4	46.4	42.5	38.2	50.8

Urban ↑
URBAN - RURAL CONTINUUM
↓ Rural



G. W. Skinner Archive

website: <http://skinner.hmdc.harvard.edu/>

Skinner JapanT and JapanCPZ Datasets

LUH

- 1-2
- 3
- 4-5
- 6
- 7

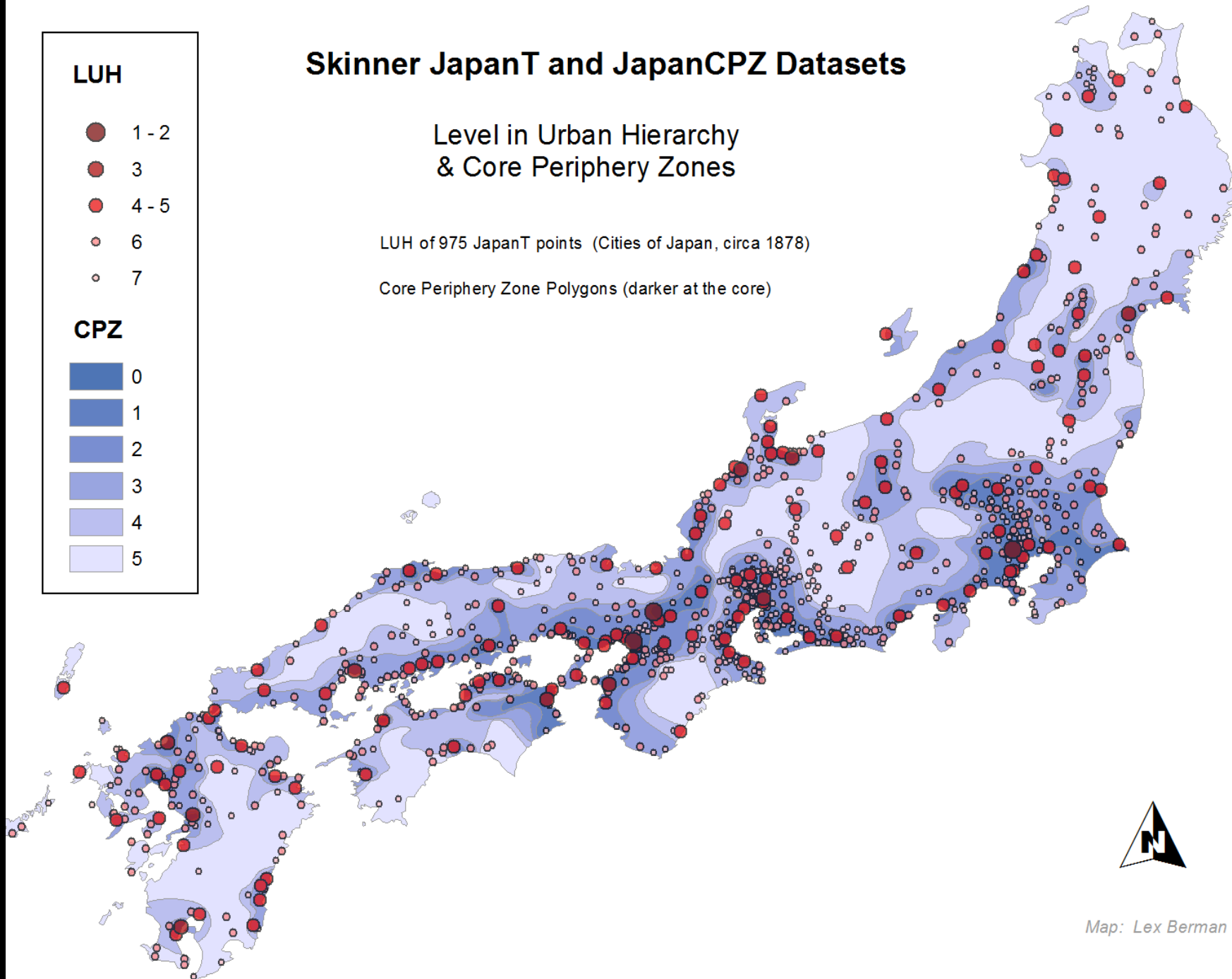
CPZ

- 0
- 1
- 2
- 3
- 4
- 5

Level in Urban Hierarchy
& Core Periphery Zones

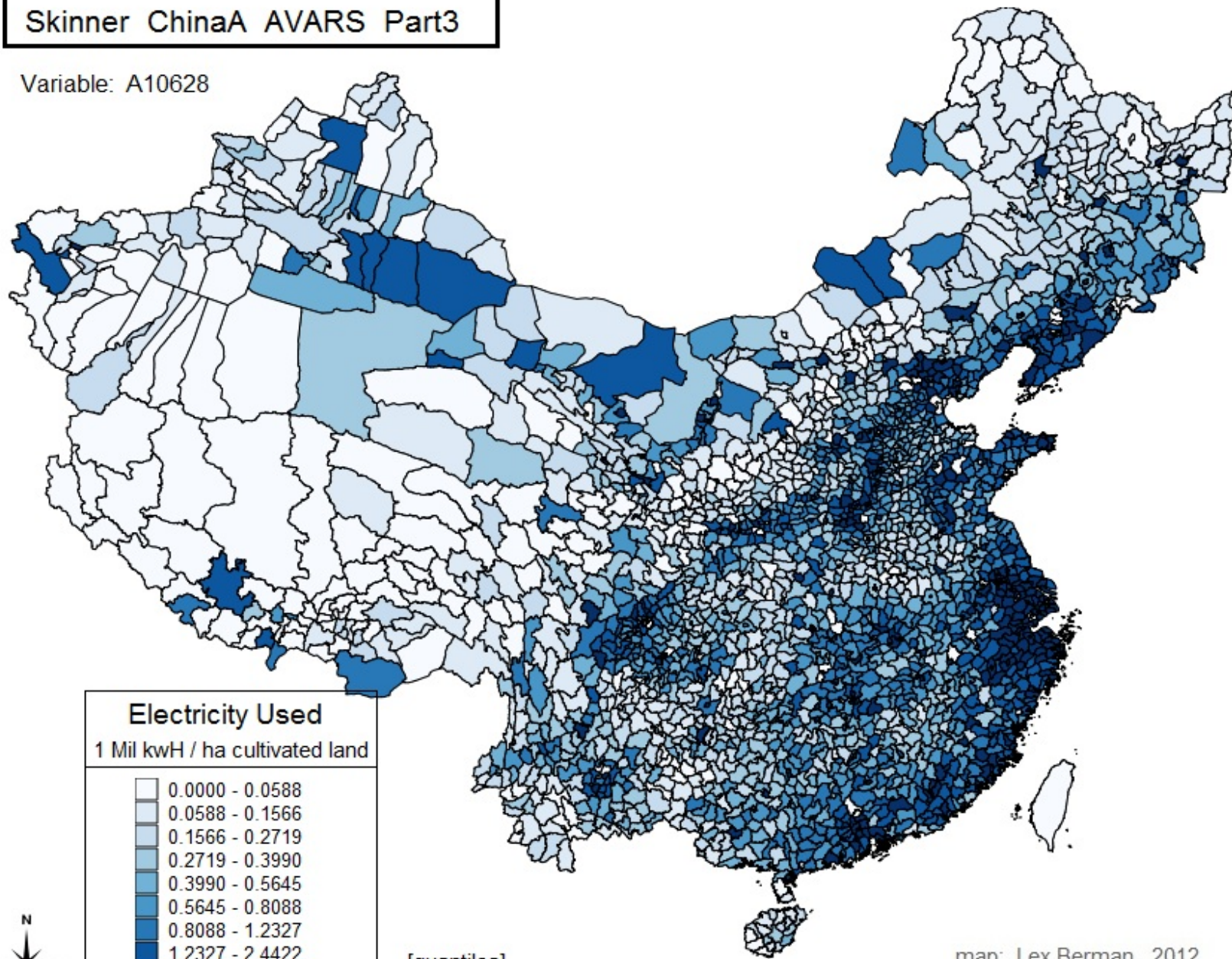
LUH of 975 JapanT points (Cities of Japan, circa 1878)

Core Periphery Zone Polygons (darker at the core)



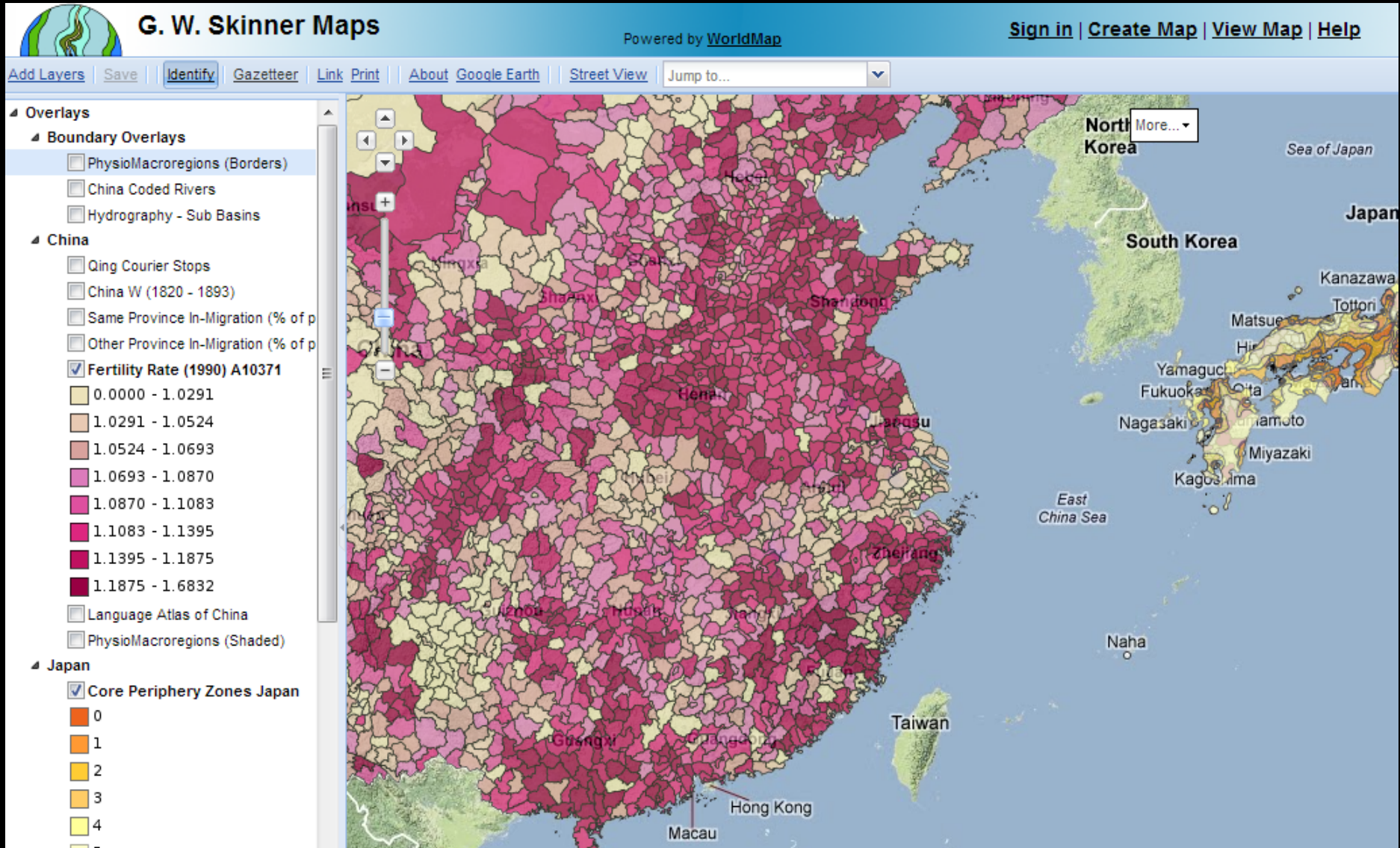
Skinner ChinaA AVARS Part3

Variable: A10628



map: Lex Berman, 2012

browse online: <http://worldmap.harvard.edu/maps/skinner>





TIBETAN
BUDDHIST
RESOURCE
CENTER

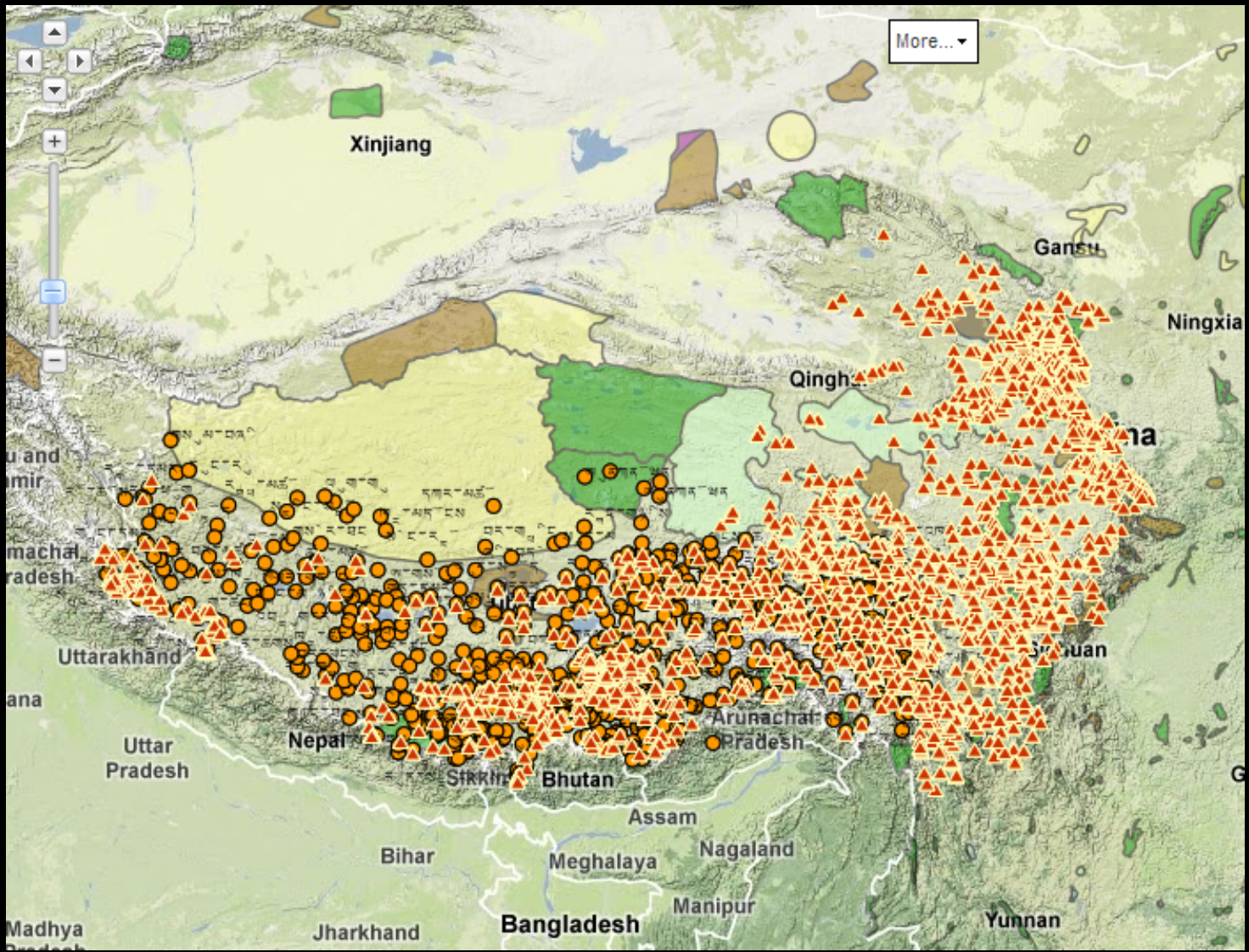


Tibetan
and
Himalayan
Library



TibetMap

website: <http://worldmap.harvard.edu/tibet>



Harvard Geospatial Library

<http://hgl.harvard.edu/>

China Historical GIS Project

<http://www.fas.harvard.edu/~chgis>

ChinaMap & JapanMap

<http://worldmap.harvard.edu/china>

<http://worldmap.harvard.edu/japan>

G. W. Skinner Archive

<http://skinner.hmdc.harvard.edu/>

Digital Archive of Japan's 2011 Disasters

<http://www.jdarchive.org/ja/home>

Tibetmap

<http://worldmap.harvard.edu/tibet>