

# 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)

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## SEARCH

korea

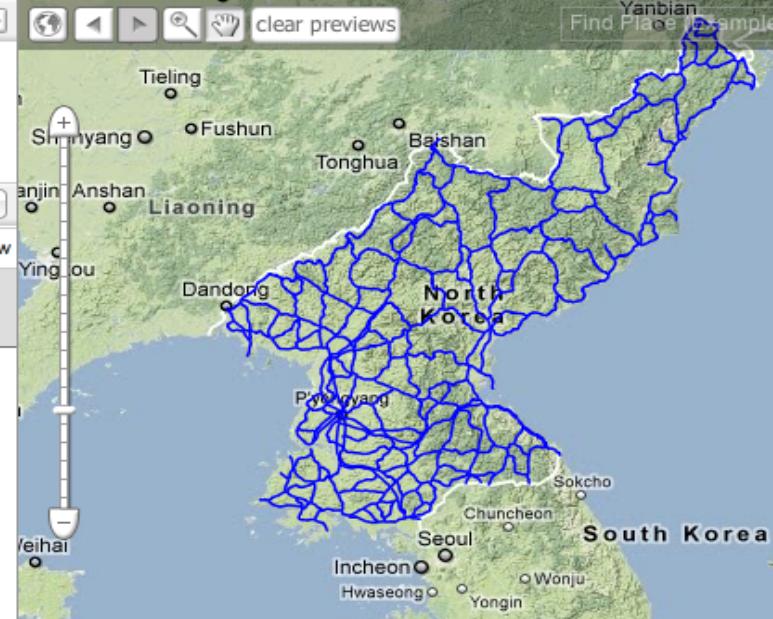
Search

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

12 RESULTS by Relevancy

Columns

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



# Harvard Geospatial Library

website:  
hgl.harvard.edu/

Search term

Results

Harvard Geospatial Library

Getting Started Search Cart (0)

SEARCH

india

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

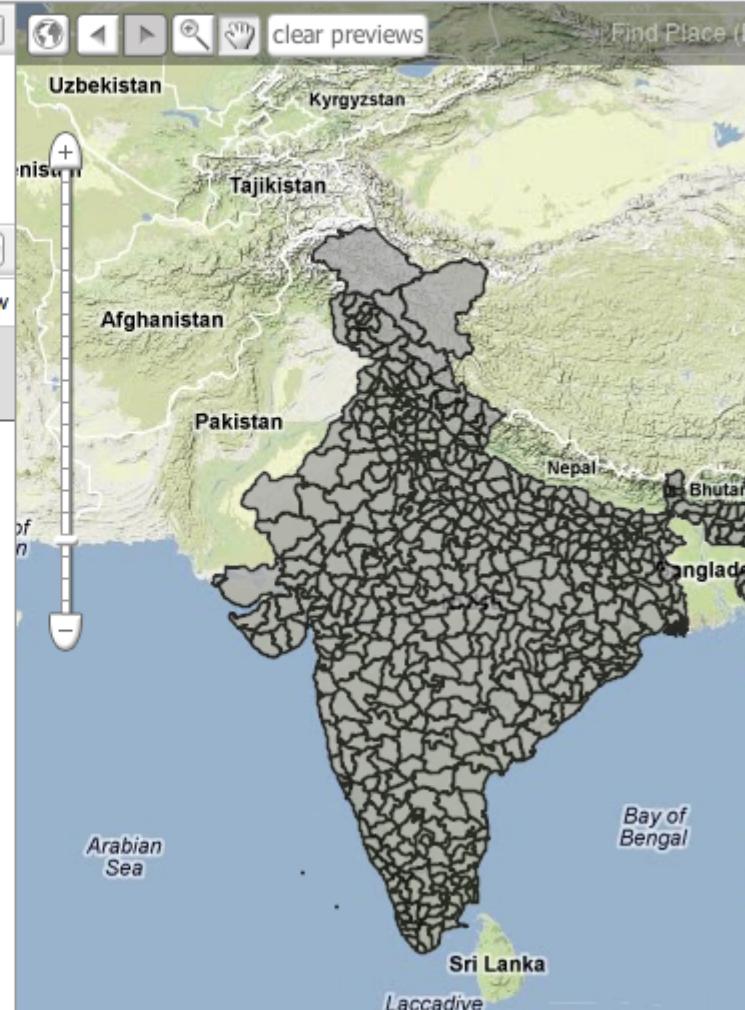
89 RESULTS by Relevancy Columns

Type	Name	Originator	Rep	Preview
India : District Boundaries, 1951	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : District Boundaries, 1961	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : District Boundaries, 1971	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : District Boundaries, 1981	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : District Boundaries, 1991	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : District Boundaries, 2001	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India SoilMap	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India (Geographic Feature Names, 2011 National Imagery)	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : Towns with Census Data, 2001	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : State Boundaries with Census	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India SoilMap by Administrative District	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : Sub-District Boundaries with Constituencies	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : Lok Sabha (14th) Constituency	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
India : Lok Sabha (9th-13th) Constituencies	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	
Kolkata, India, Roads, 1910 (Raster Irr Harvard Map)	ML InfoMap ( H )	<a href="#">i</a>	<input type="checkbox"/>	



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



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## OPTIONS

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## LAYERS (1)

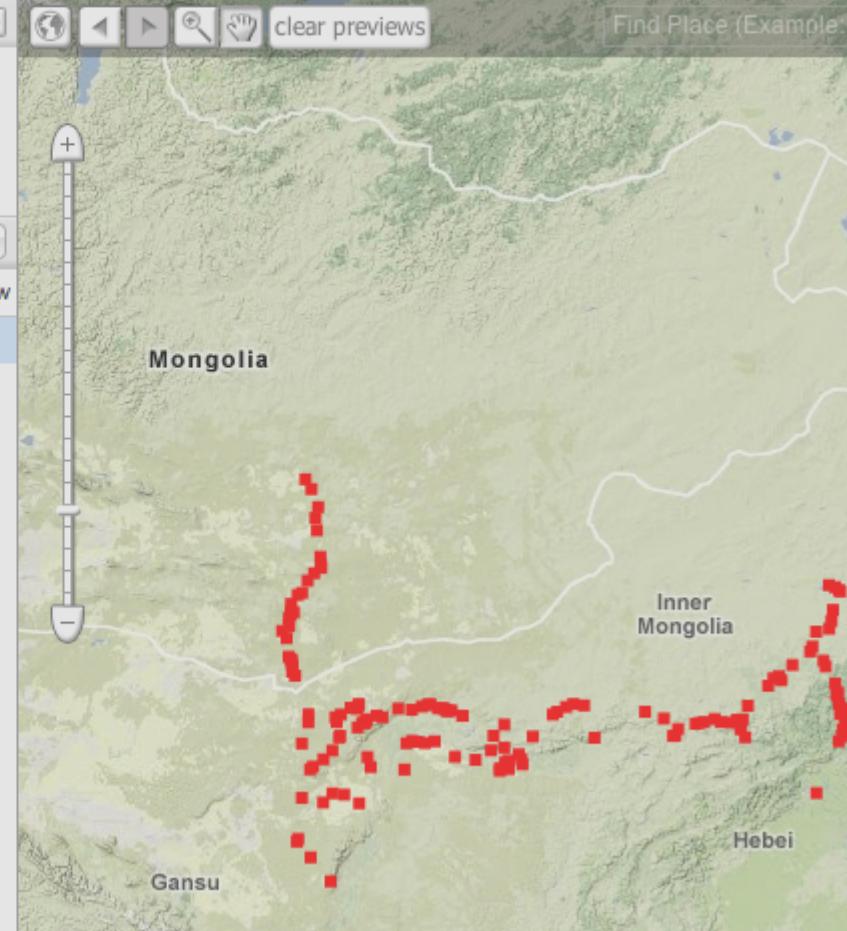
Type	Name	Originator	Rep.	<a href="#">i</a>	<a href="#">Preview</a>	<a href="#">Remove</a>
<input checked="" type="checkbox"/>	CHGIS Version 4 : Inner Mongolia 181 CHGIS, Harv	H	<a href="#">i</a>	<input checked="" type="checkbox"/>		

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- Harvard University
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- MassGIS
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- 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](http://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:

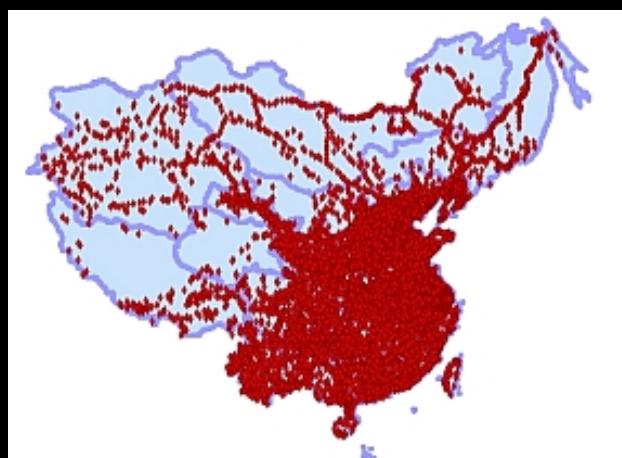
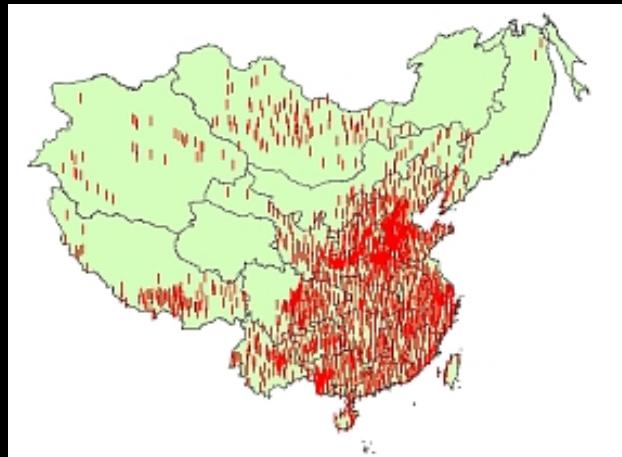
**National & Regime Boundaries**

**Province Boundaries**

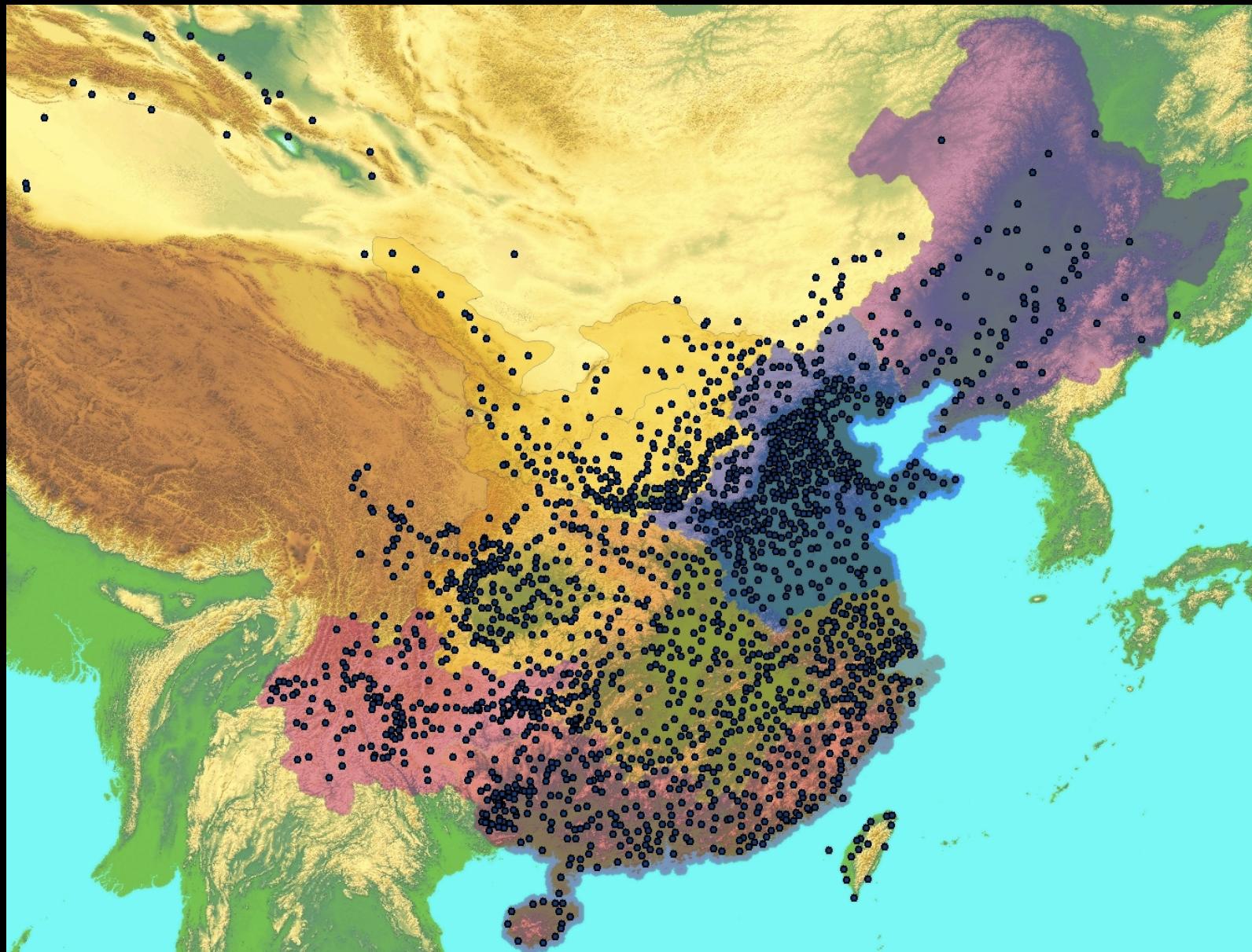
**Prefecture Boundaries**

**1911 County Boundaries**

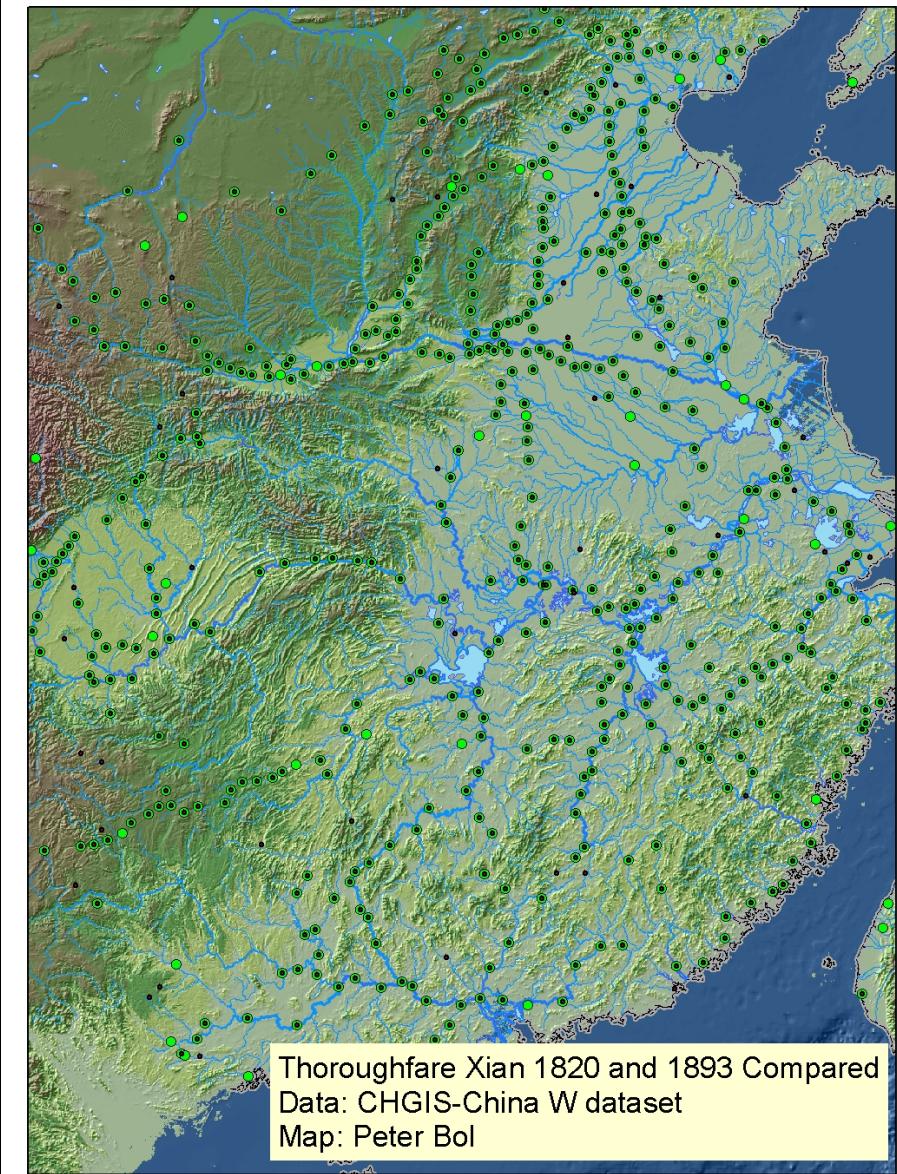
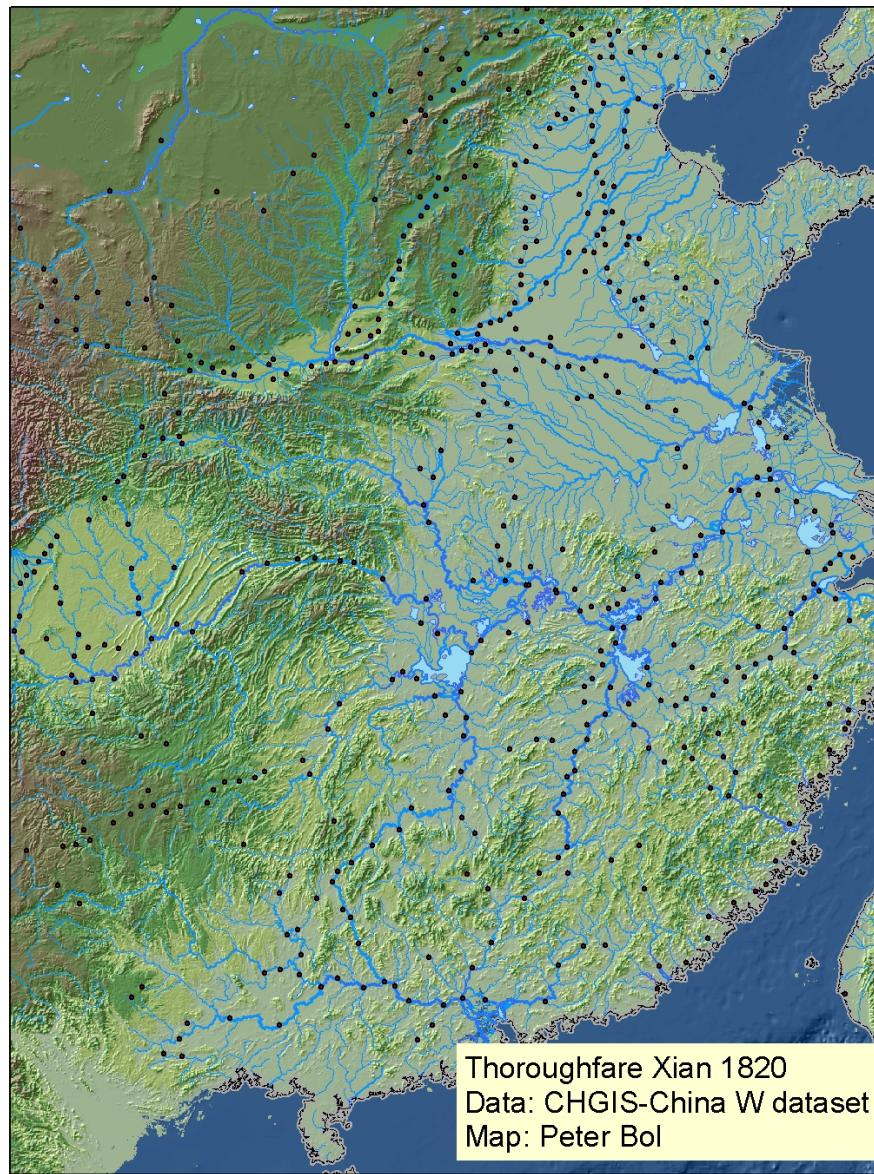
# 1820 County Seats, Towns, & Prefecture Seats



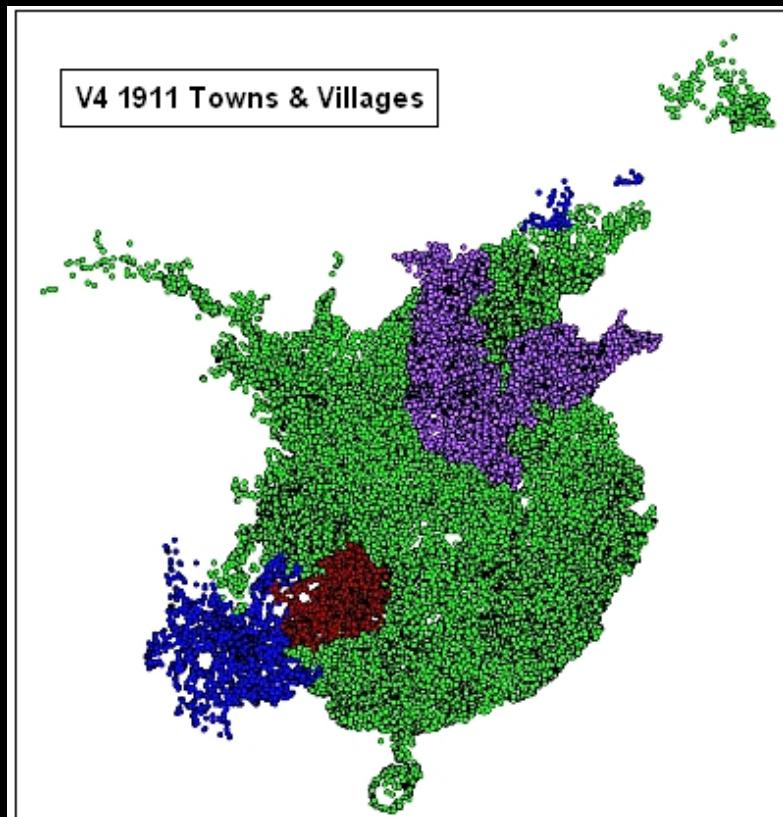
# G. W. Skinner: ChinaW 1820-1893 & Physiographic Macroregions



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



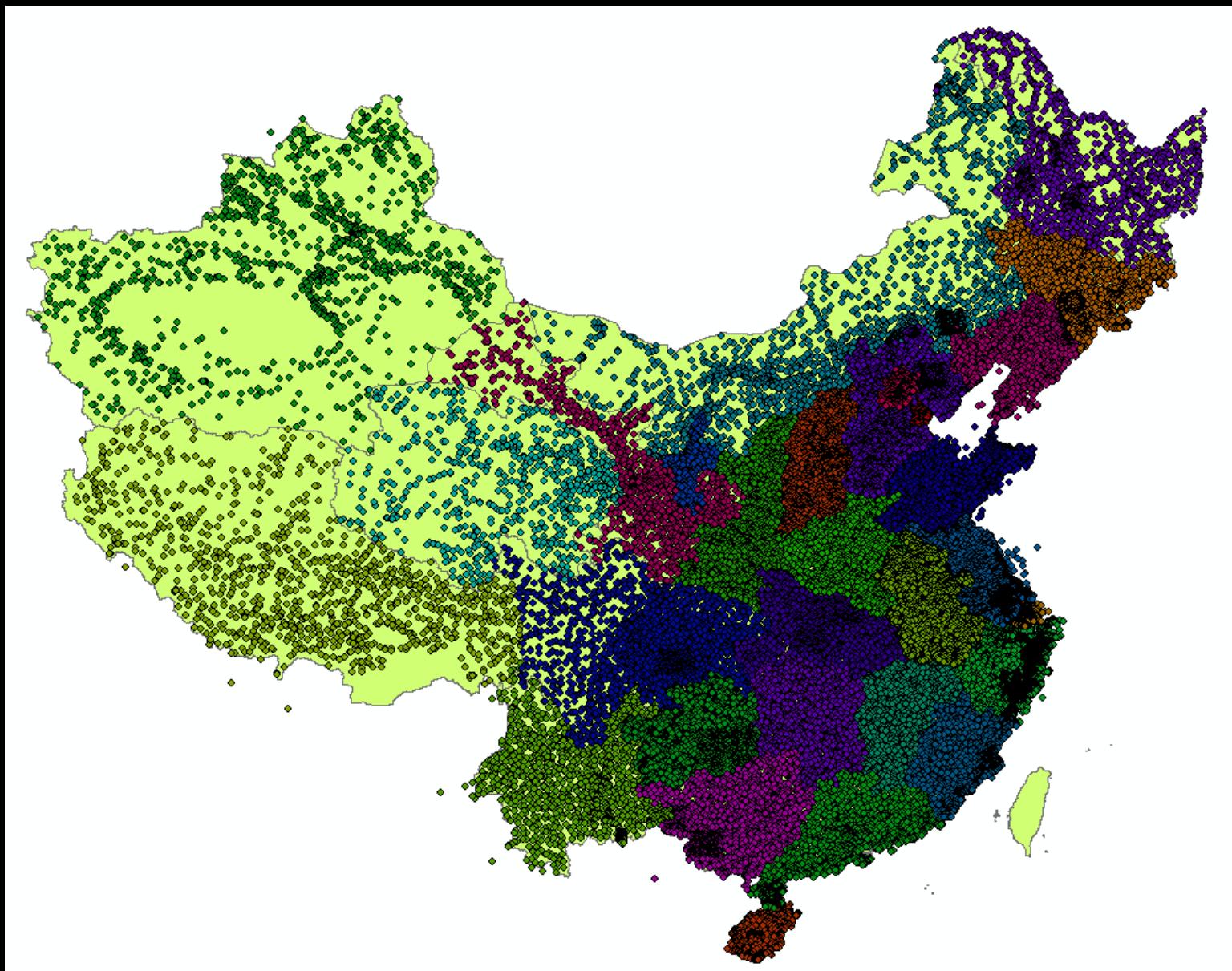
## CHGIS V4: 1911 towns (points) and 1911 counties (polygons)



# CHGIS V5: 1911 county seats and boundaries



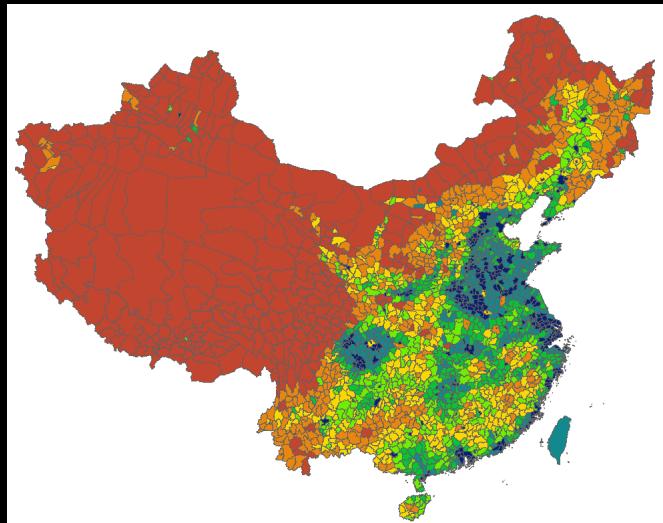
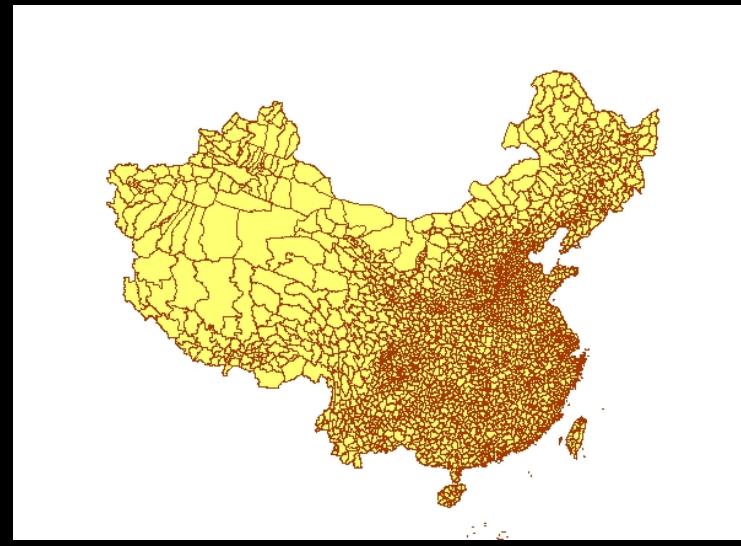
# CHGIS: 1990s Named Features (USGS)



# 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
Ningtsing	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)



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

# CHGIS: Historical Georeferencing – Buddhist Temples

崇聖寺			
220	227	232	235
224 六峰 大、和 縣 山十 巖	22 御 内 北 外	23 白 色 東	29 嶺 東
唐、開元中	宋、更 中	宋、政 和	
今名、三 塔寺。七 樓八殿三 塔あり			
今名、三 塔寺。七 樓八殿三 塔あり		明、洪 武 重 建	

# Source Comparison: 1820 Yitongzhi and 1966 Yajima Index

建今名三塔寺  
在太和縣西北蒼山十六峯  
之下。寺有七樓八殿三塔高  
十餘丈。凡十六級。唐開元中

**崇聖寺**

今名三塔寺。七樓八殿三塔あり  
2220  
224  
六峰  
大和縣蒼山十  
唐開元中

Name:	崇聖寺
Temple ID:	2220
Site ID:	224
Location:	大和縣蒼山十六峰
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:	大和县苔山十六峰
Established:	唐开元中
Notes:	今名三塔寺，七楼八殿三塔

# CHGIS: Identifying Correct Locality in CHGIS Database

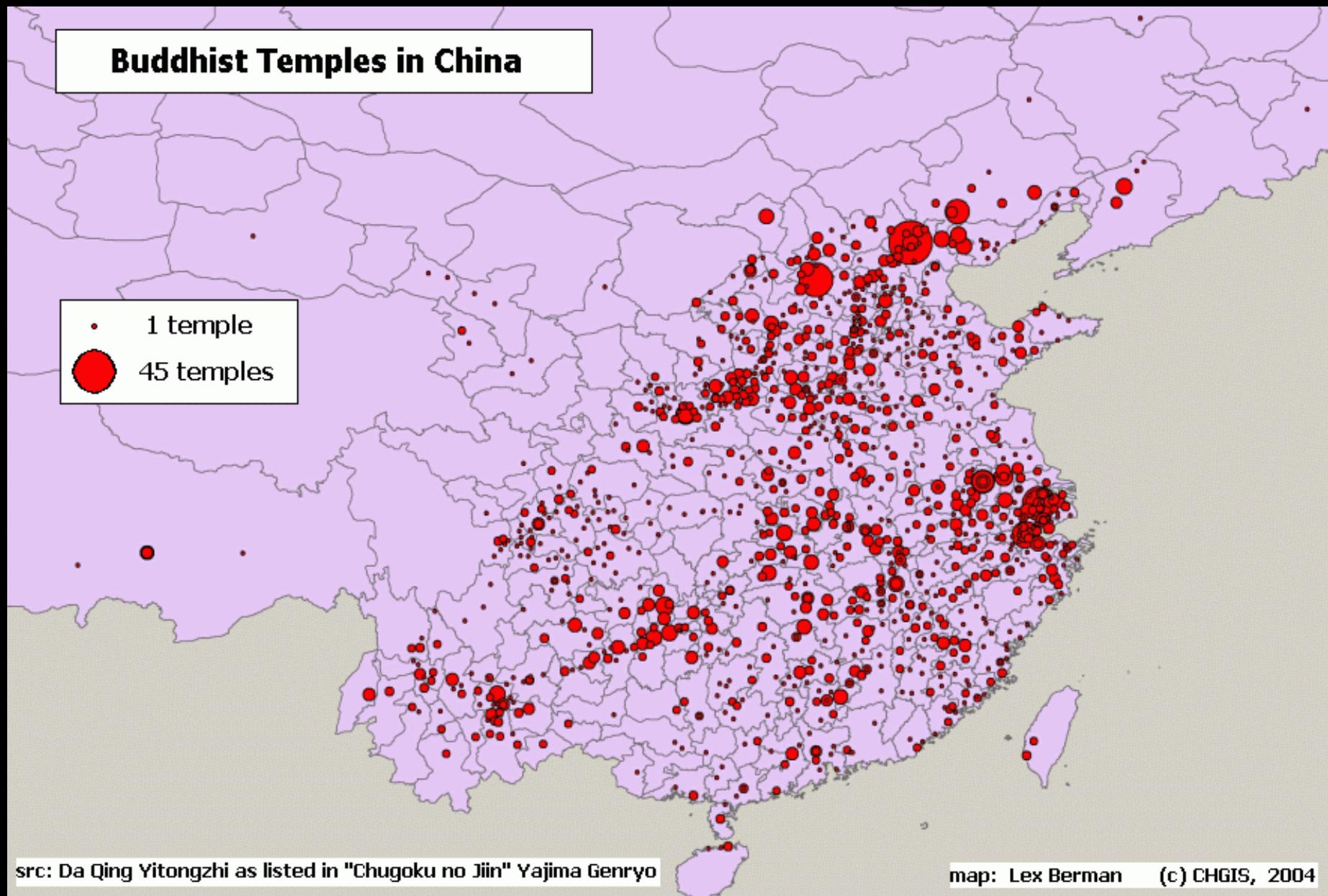
child_id	child_rom	child_utf	child_utf	abeg_yr	end_yr	parent_utf	parent_rom	parent_id
1547	Langqiong Xian	浪穹县	浪穹縣	1820	1820	大理府	Dali Fu	9753
1553	Yunlong Zhou	云龙州	云龍州	1820	1820	大理府	Dali Fu	9753
1555	Yunnan Xian	云南县	云南縣	1820	1820	大理府	Dali Fu	9753
1556	Dengchuan Zhou	邓川州	鄧川州	1820	1820	大理府	Dali Fu	9753
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	鵝毛顶	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

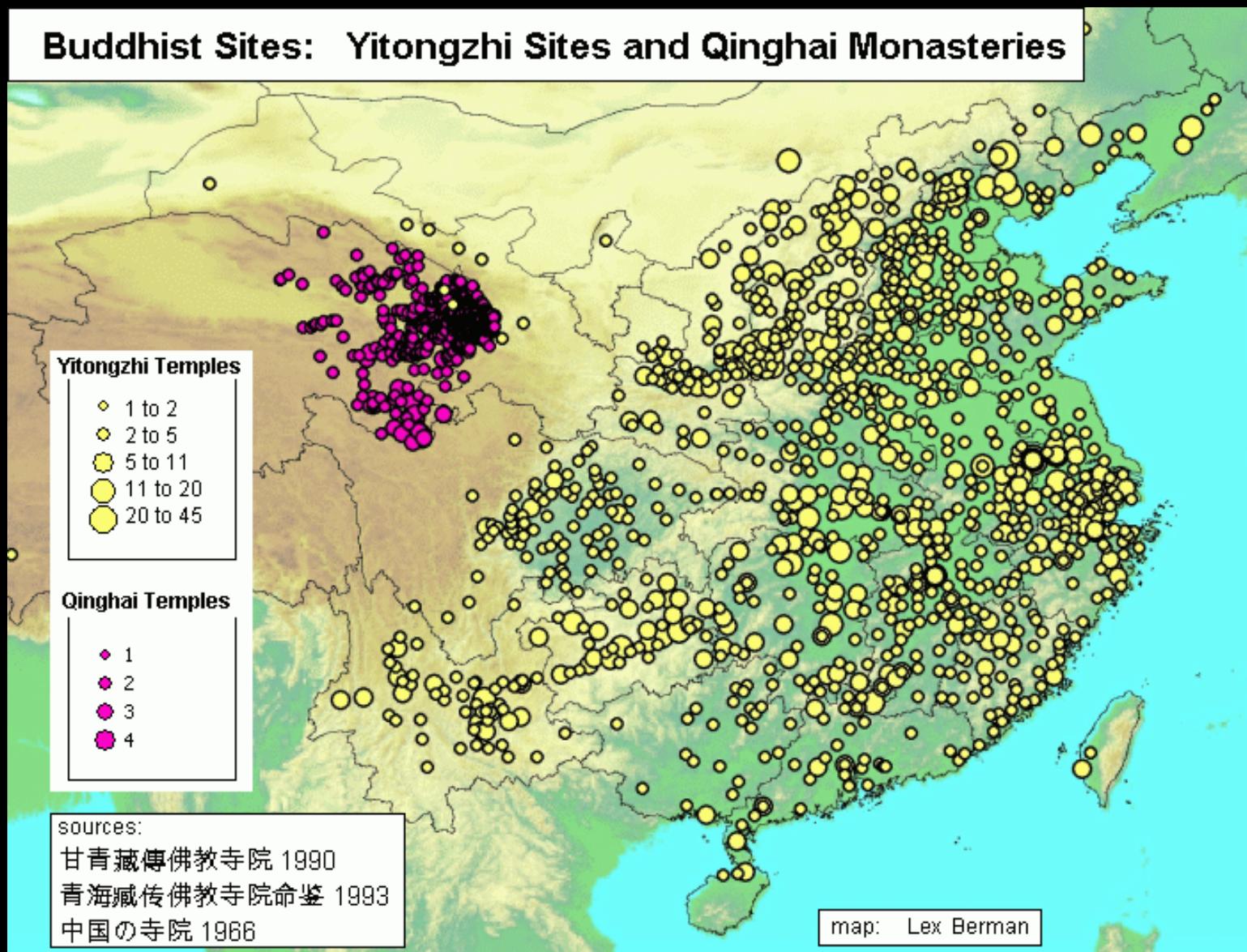


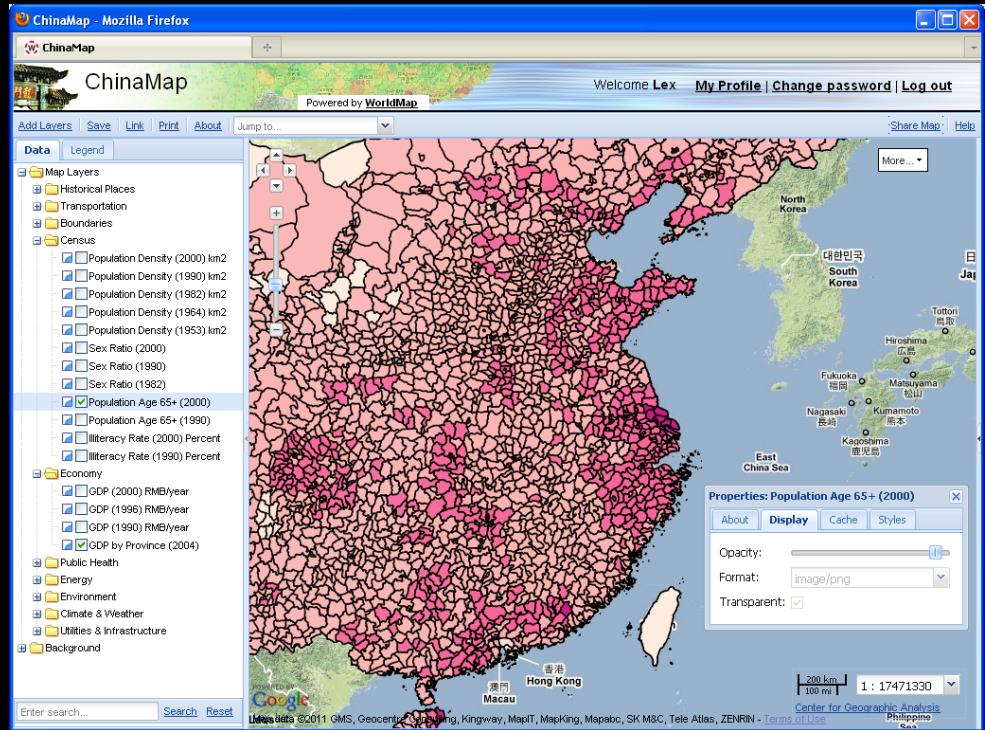
# 2,400 Buddhist Temple Sites – distribution & density



# Biased Sources Revealed by Data Inspires New Research

## Buddhist Sites: Yitongzhi Sites and Qinghai Monasteries





# ChinaMap

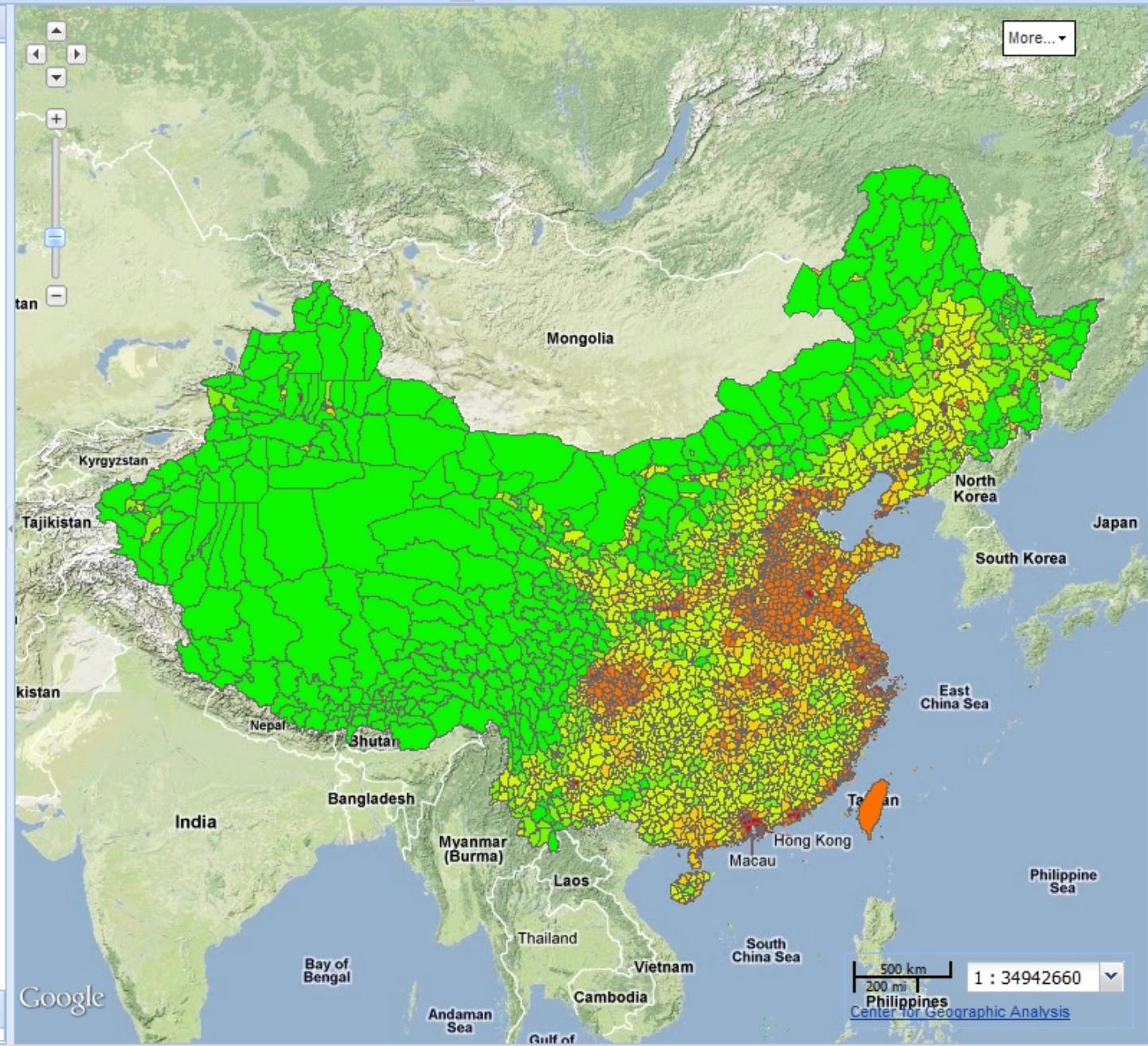
website: <http://worldmap.harvard.edu/china>

# **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

[Data](#)[Legend](#)Population Density (2000) km<sup>2</sup>

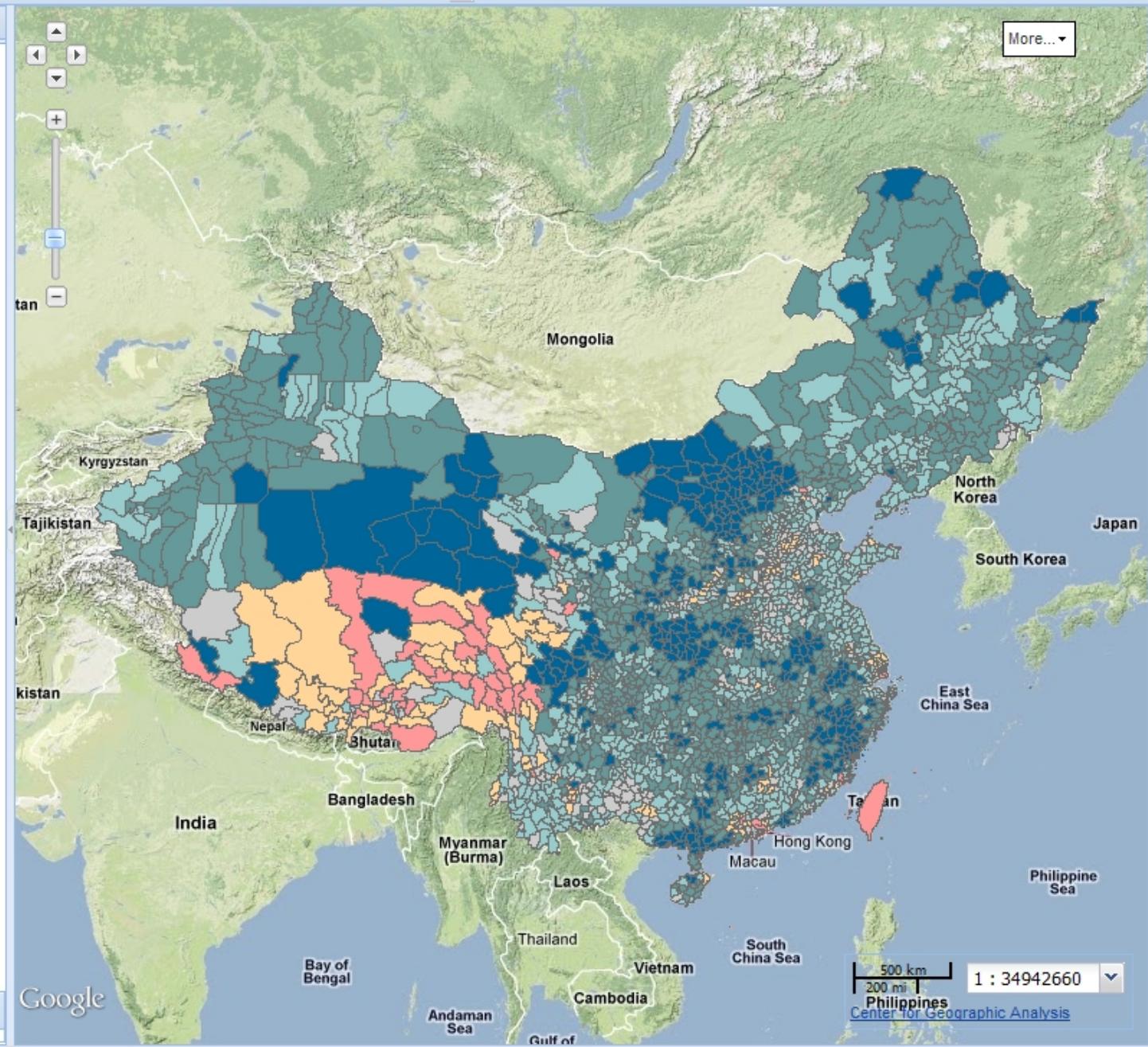
- █ 0 - 50
- █ 51 - 100
- █ 101 - 250
- █ 251 - 500
- █ 501 - 1000
- █ 1001 - 5000
- █ 5001 -

[More...](#)

[Data](#) | [Legend](#)

## Sex Ratio (1982)

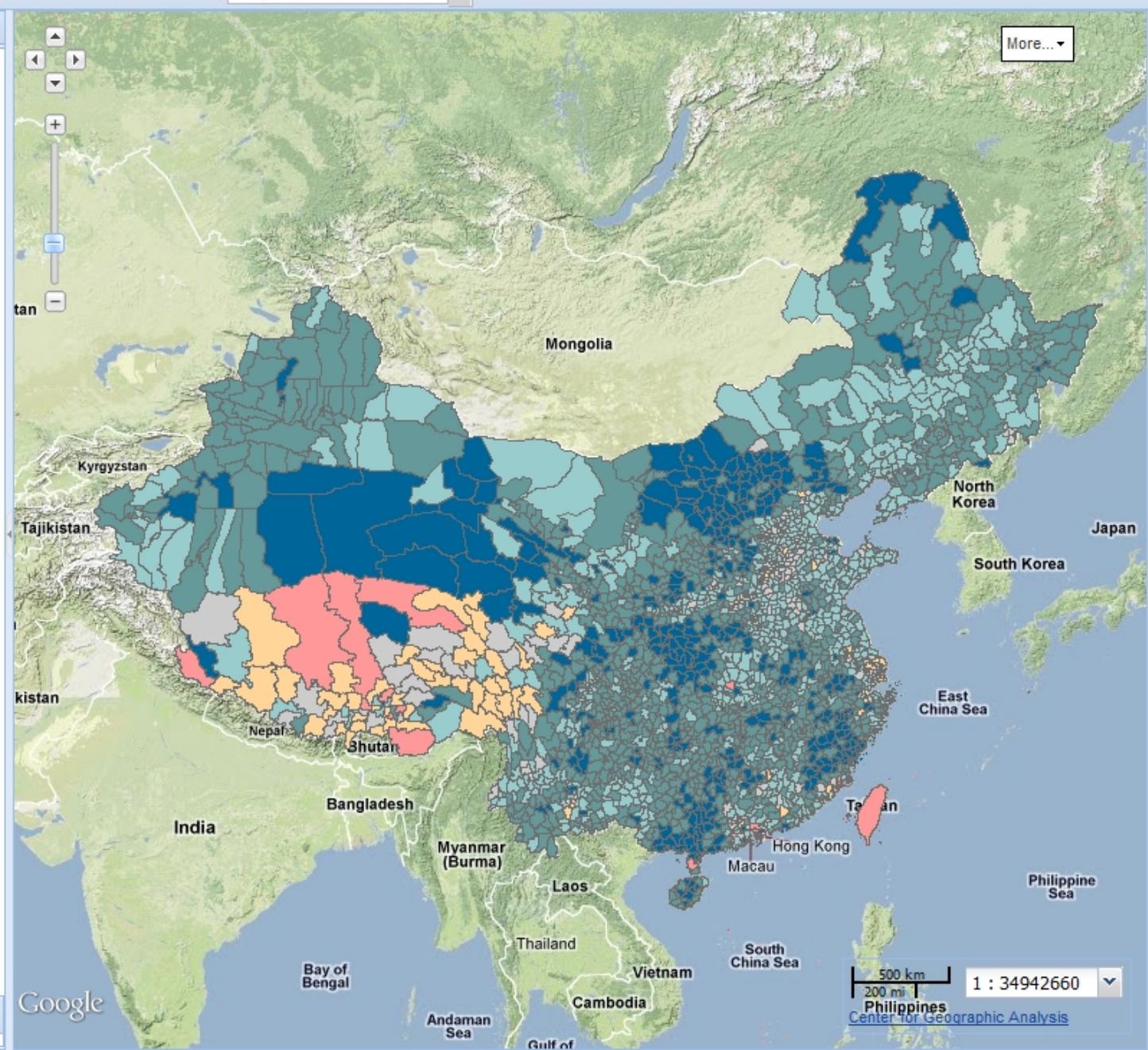
- under 95
- 95 - 99
- 100 - 101
- 102 - 105
- 106 - 110
- over 110



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## Sex Ratio (1990)

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

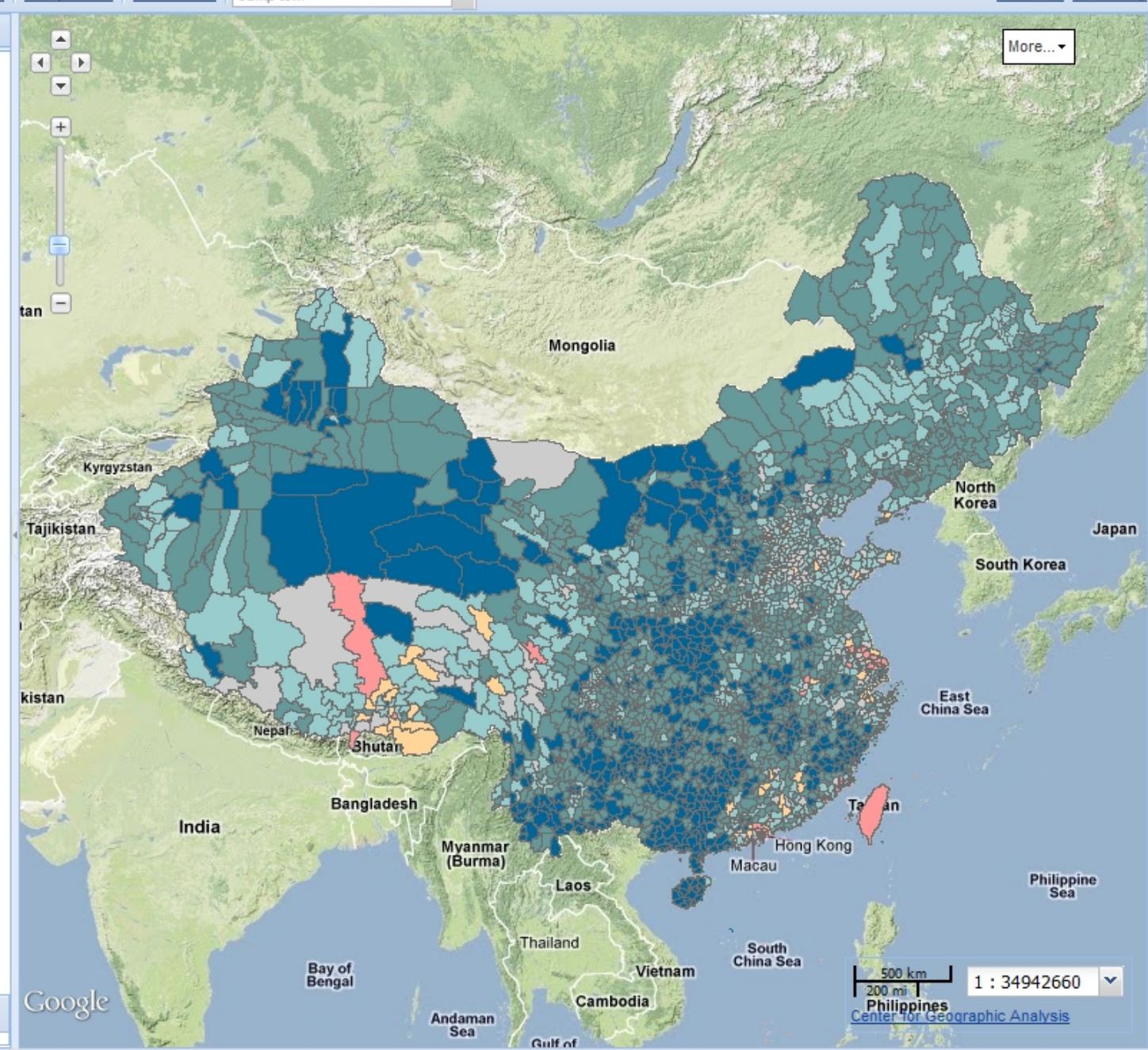
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## Sex Ratio (2000)

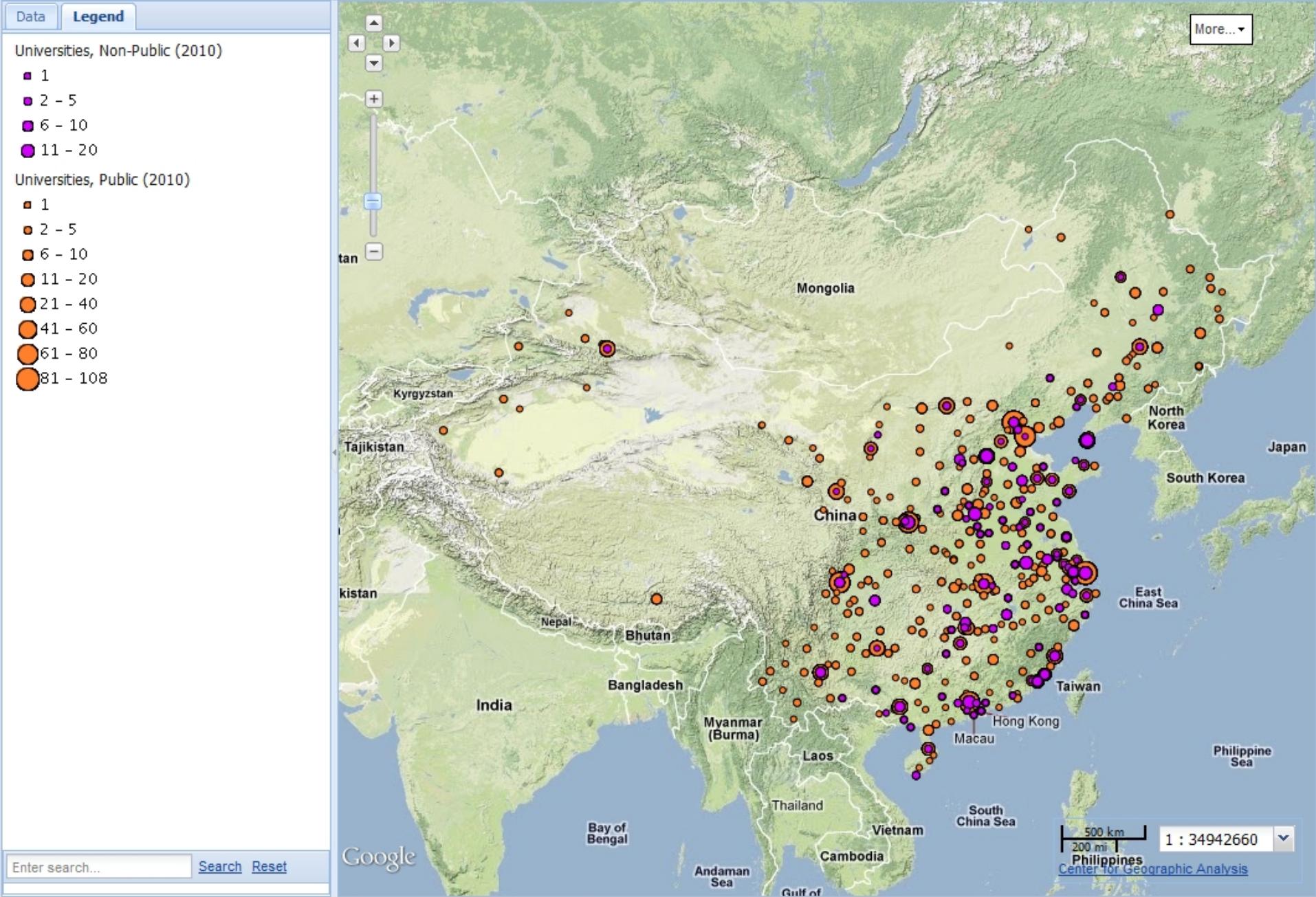
- under 95
- 95 - 99
- 100 - 101
- 102 - 105
- 106 - 110
- over 110



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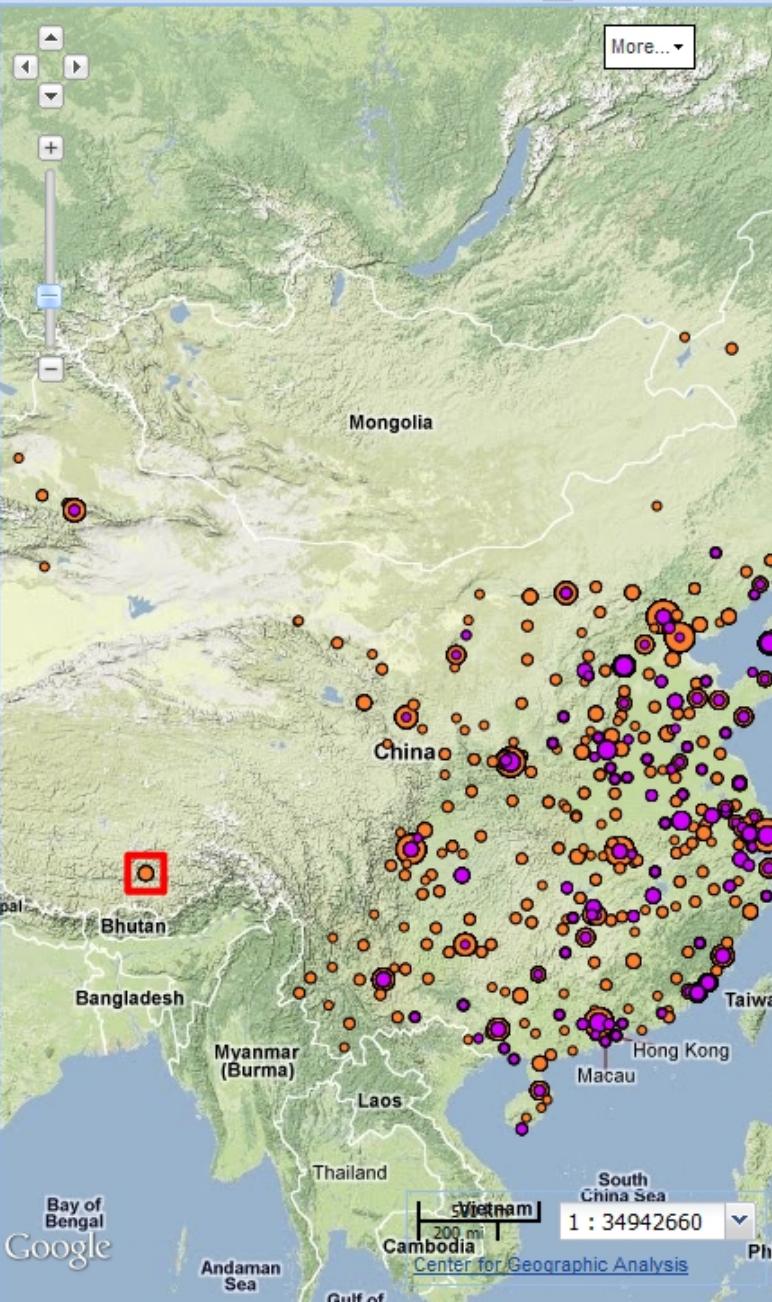
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## Universities, Non-Public (2010)

- 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](#)

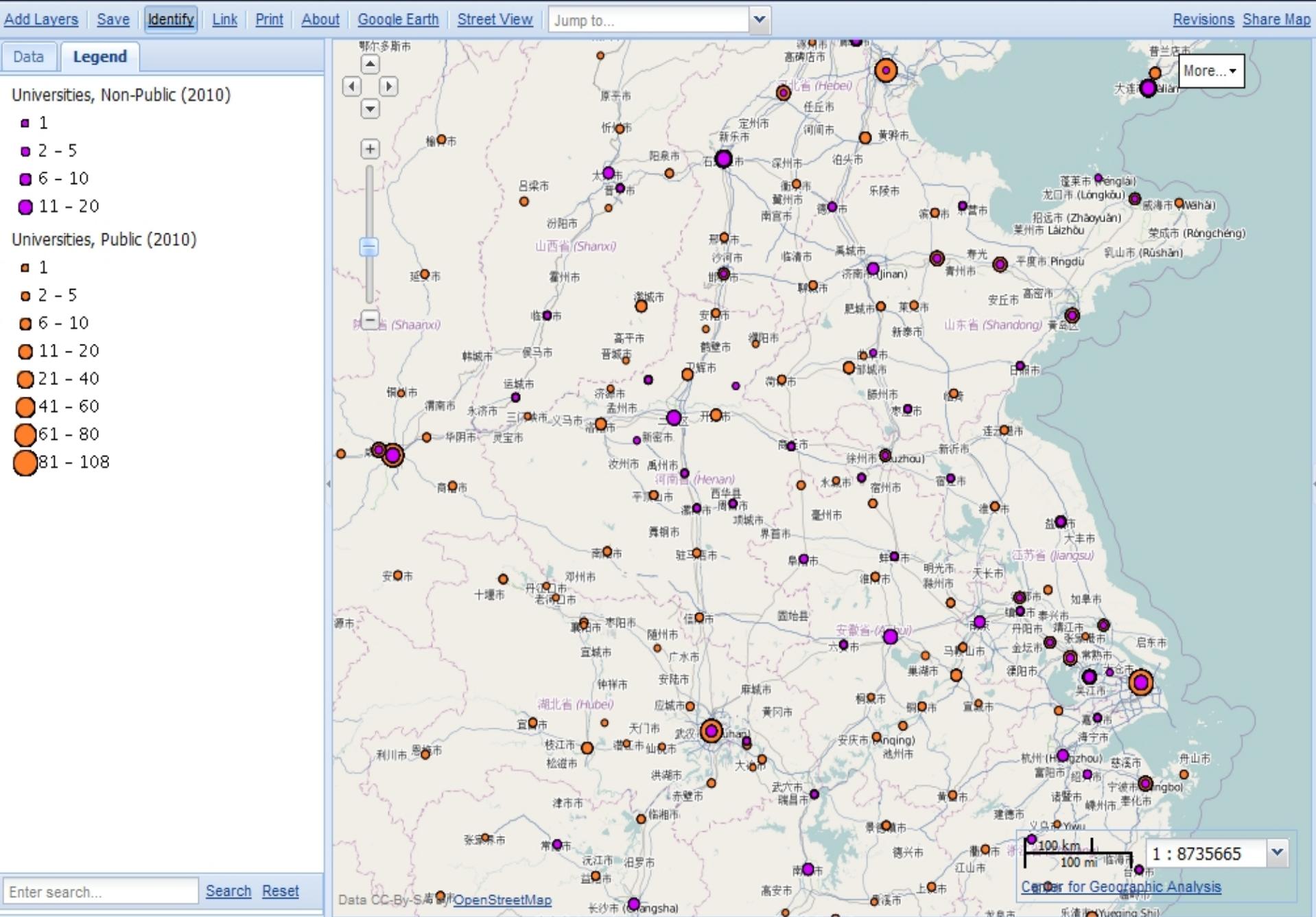
Name

[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)

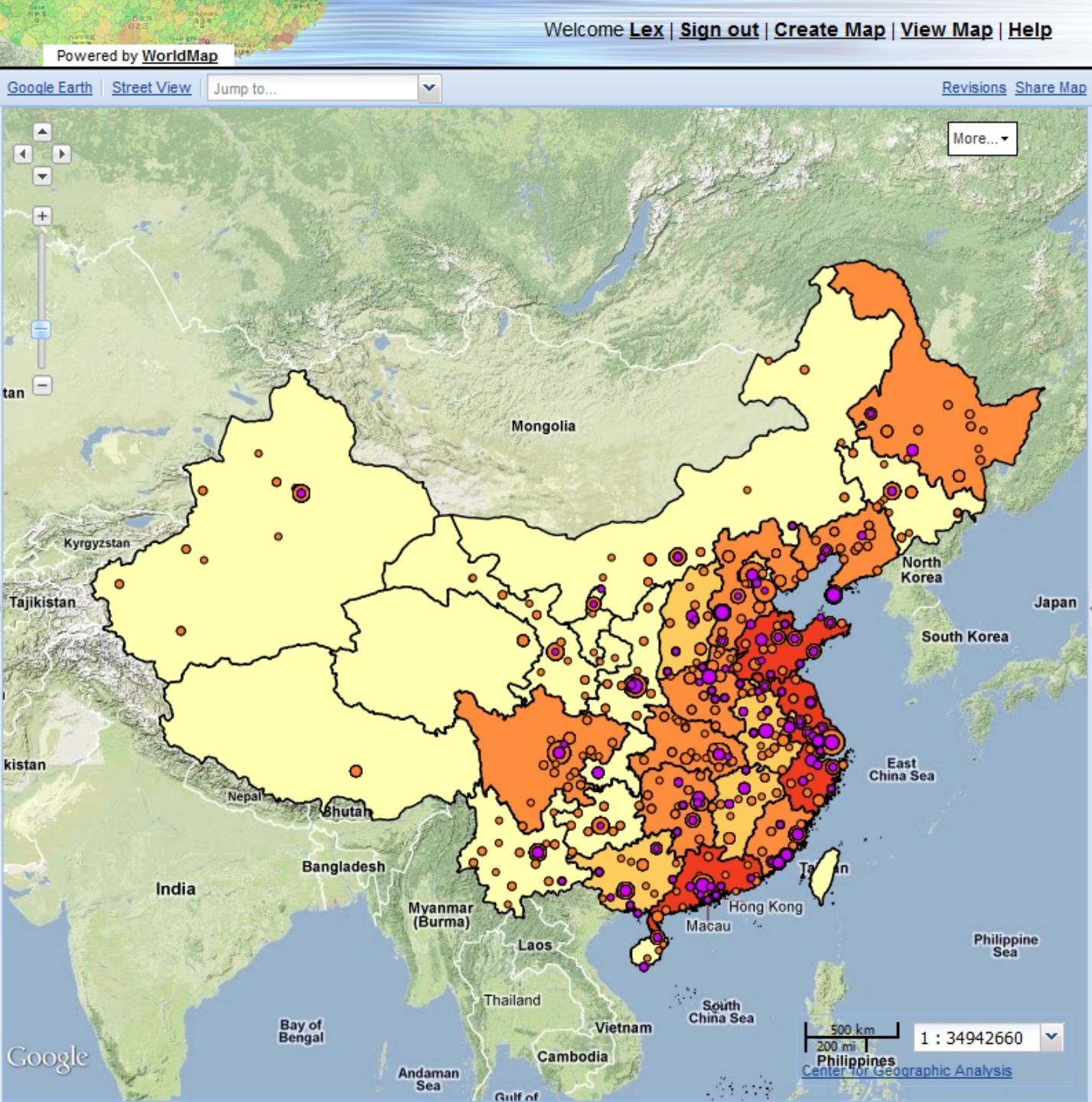
- 1
- 2 - 5
- 6 - 10
- 11 - 20

## Universities, Public (2010)

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

## GDP by Province (2004)

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



[Data](#) | **Legend**

## Universities, Non-Public (2010)

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

## Universities, Public (2010)

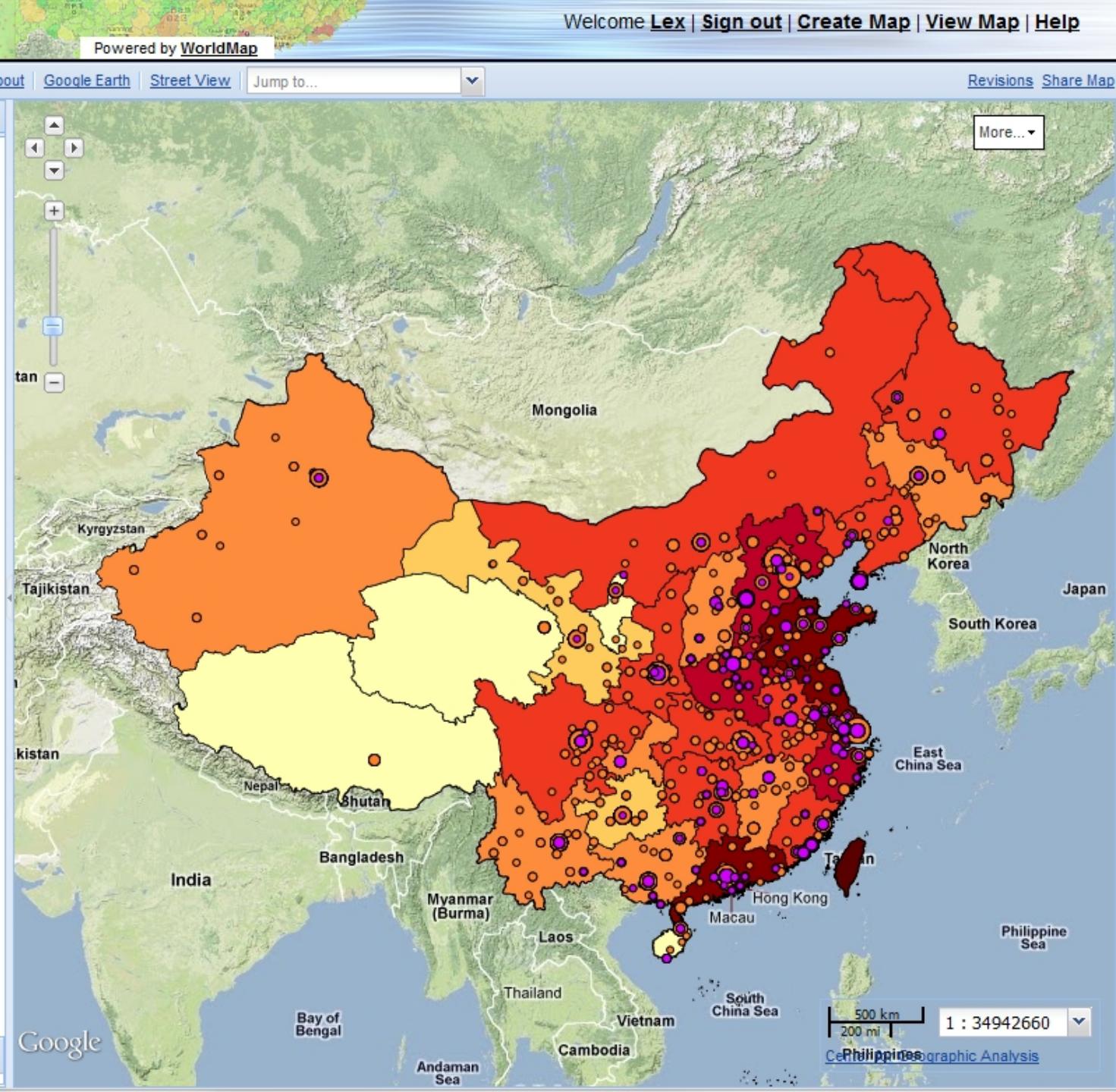
- 1
- 2 - 5
- 6 - 10
- 11 - 20
- 21 - 40
- 41 - 60
- 61 - 80
- 81 - 108

## 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





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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) km<sup>2</sup>

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

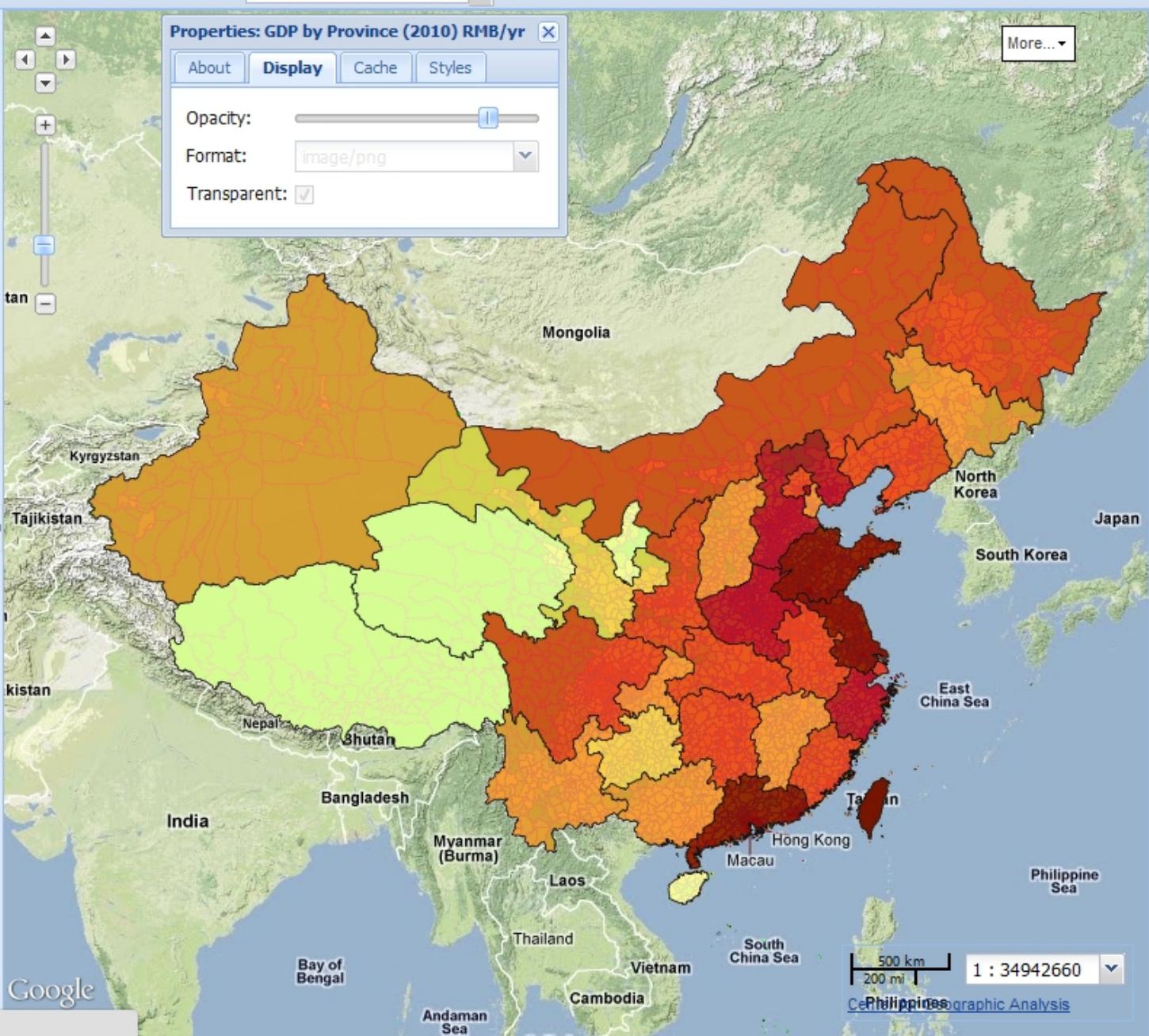
Properties: GDP by Province (2010) RMB/yr

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## 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) km<sup>2</sup>

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

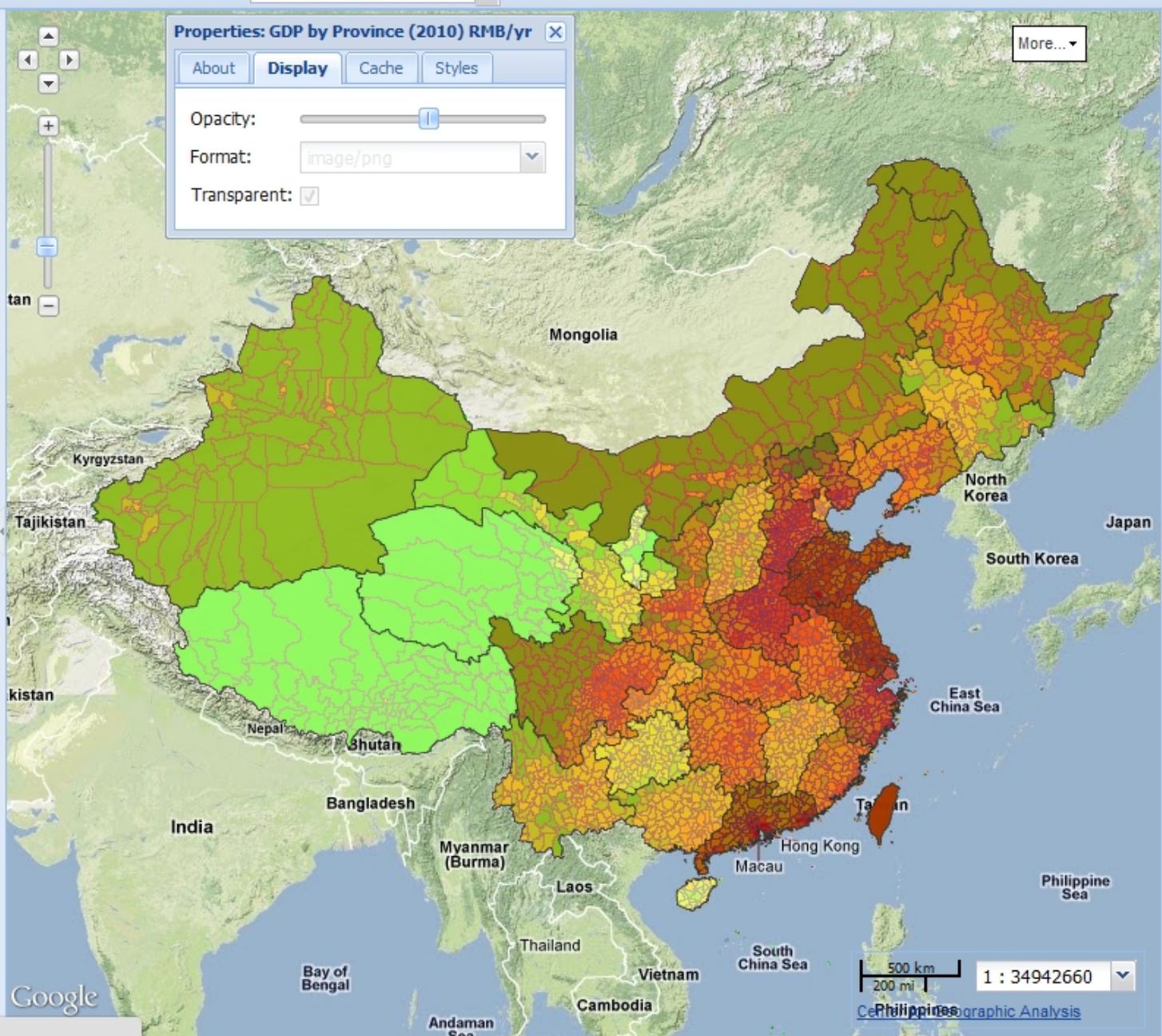
## Properties: GDP by Province (2010) RMB/yr

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Opacity:

Format:

Transparent:



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## 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) km<sup>2</sup>

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

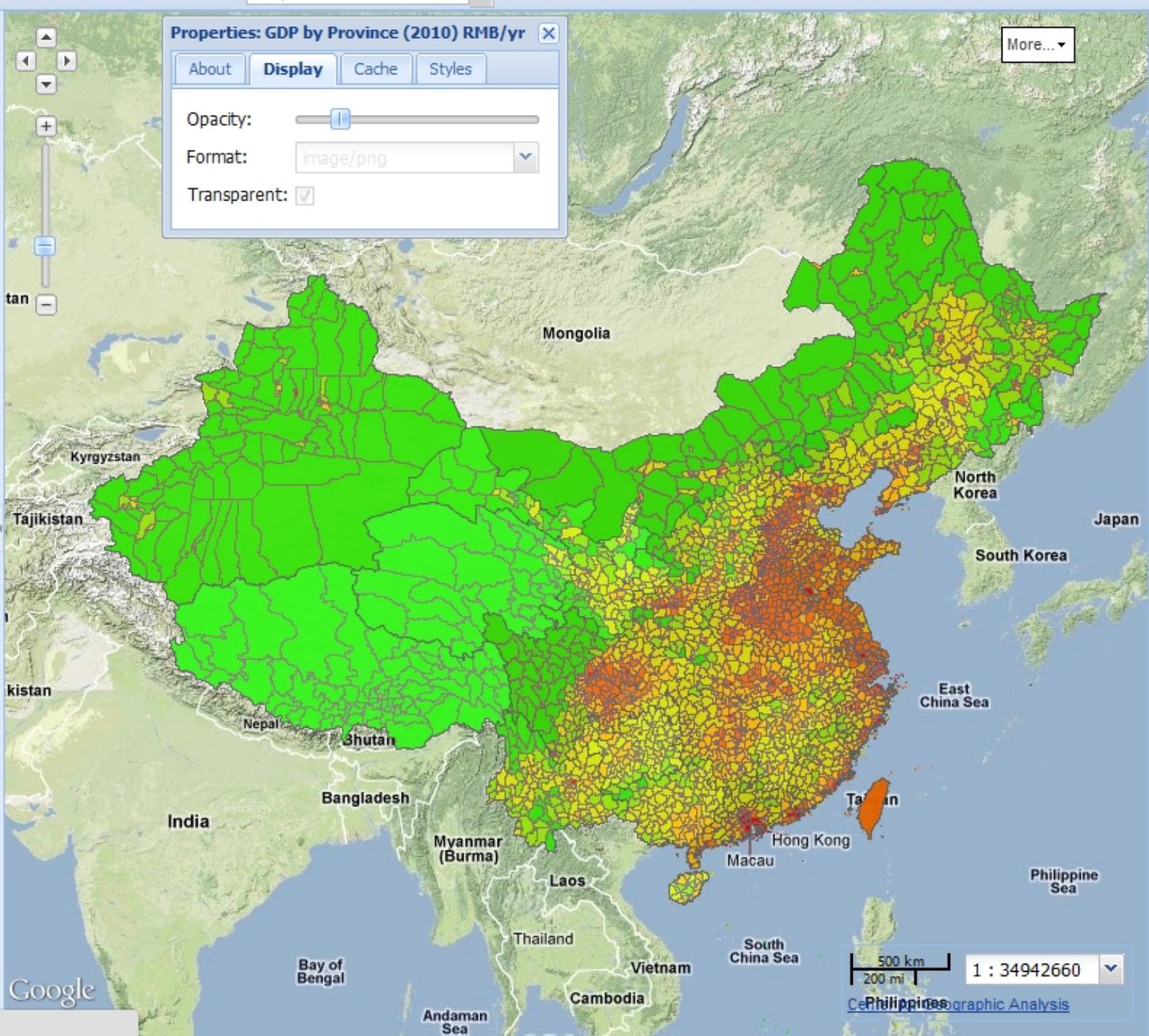
## Properties: GDP by Province (2010) RMB/yr

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

Opacity:

Format:

Transparent:

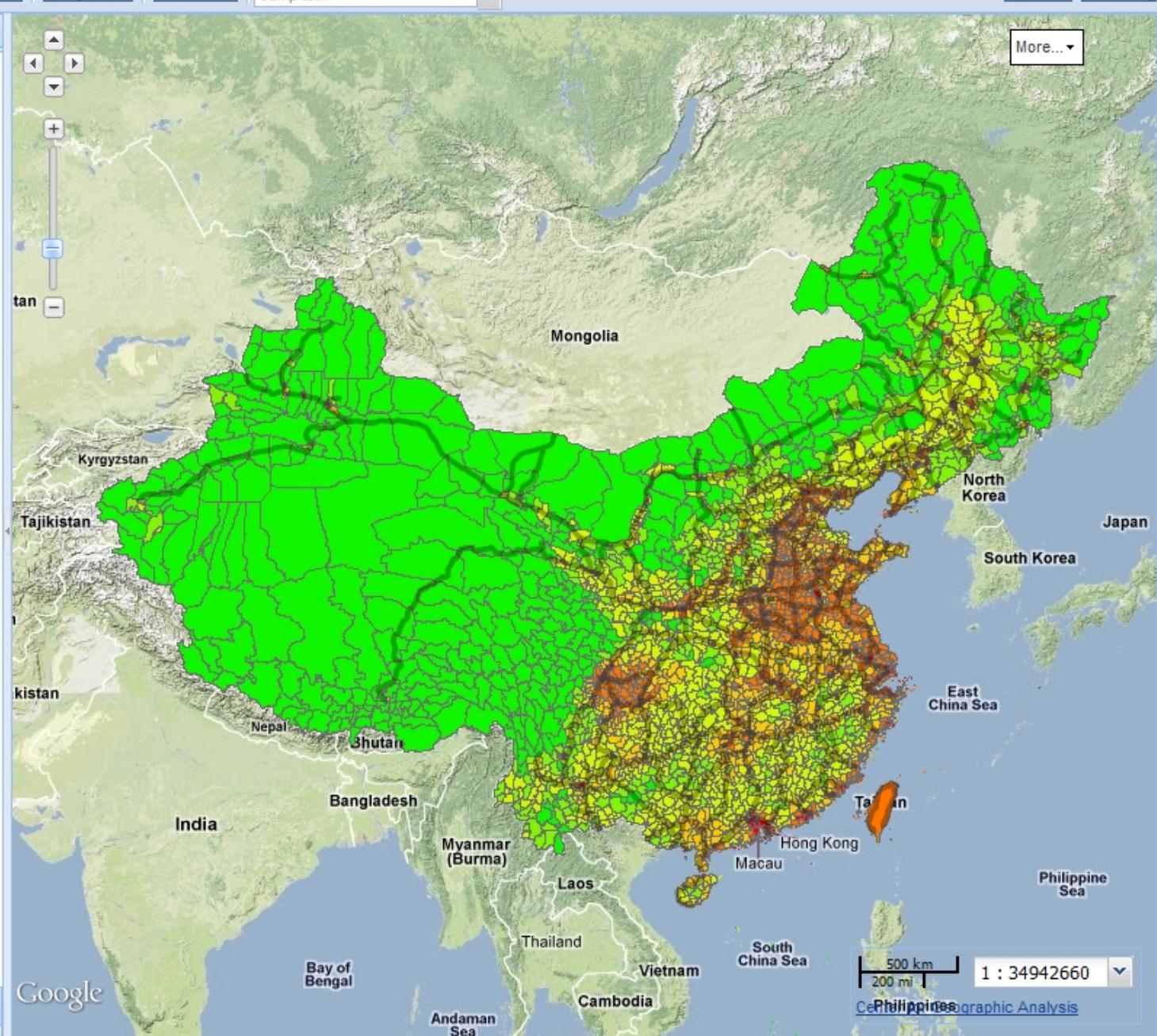


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Railways (2005)

Population Density (2000) km<sup>2</sup>

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

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## High Speed Railways (2011)

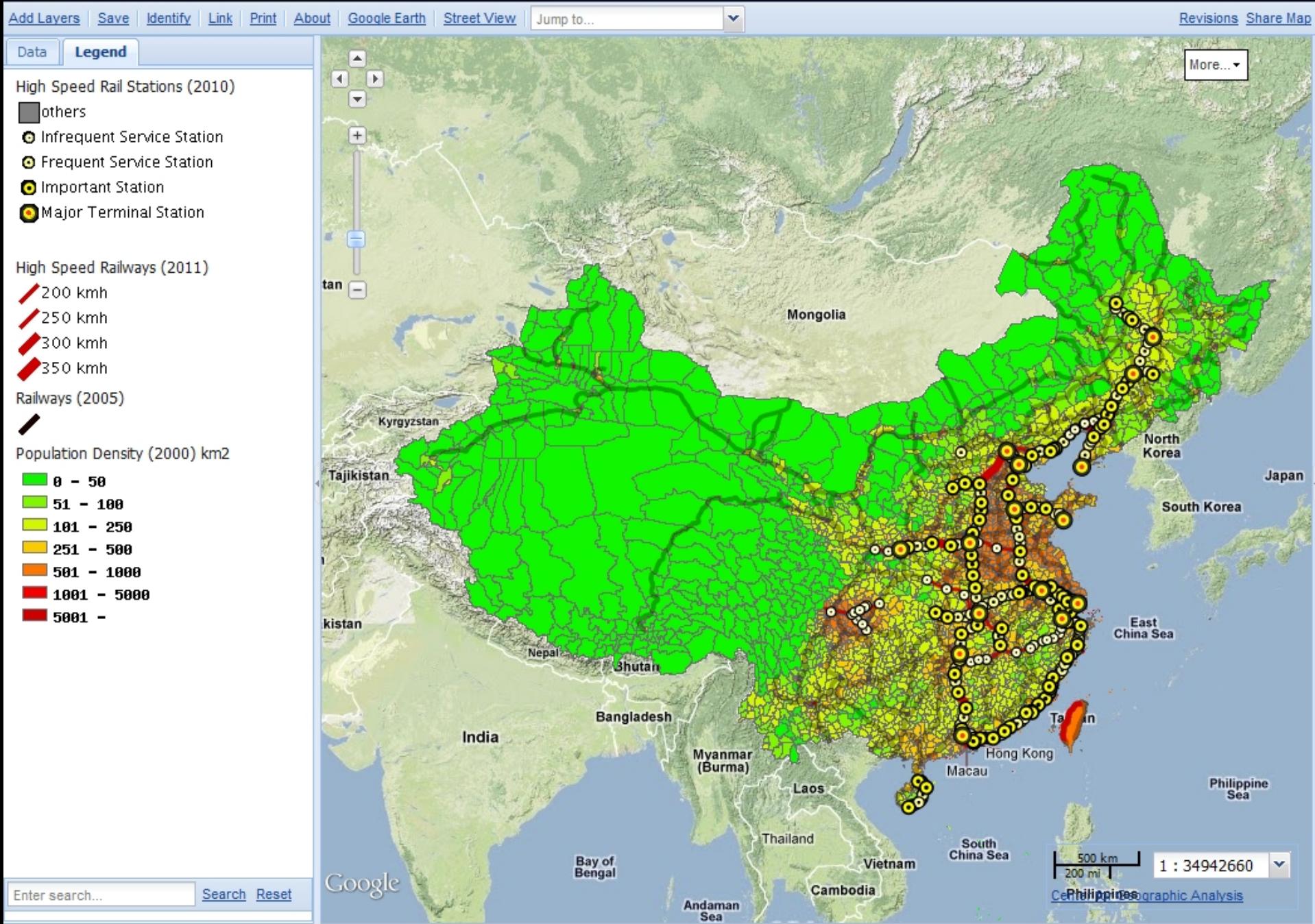
- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

## Railways (2005)

Population Density (2000) km<sup>2</sup>

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





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## Watersheds (2000)

- █ Aixa River
- █ Baicheng River
- █ Dulong River - Irrawaddy River
- █ Dzungarian
- █ Erdos River
- █ Hai River
- █ Heilong River
- █ Huai River
- █ Ili River
- █ Inner Mongolia River
- █ Irtysh 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
- Irtysh River
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- Nu River - Salween River
- Pearl River
- Qaidam
- Qiangtang
- Sen Ge Zang Bu River - Indus River
- Shandong Peninsular
- South Tibet
- Southeast China Coastal



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## 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

Google

500 km  
200 mi

1 : 34942660

Cephilippines geographic Analysis

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## 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
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- 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

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

## Identify Results

[Reset](#)

Name

[China Rivers \(Sorted by Basin\)](#)

孔雀河

孔雀河

孔雀河

[Watersheds \(2000\)](#)

Tarim

Tarim

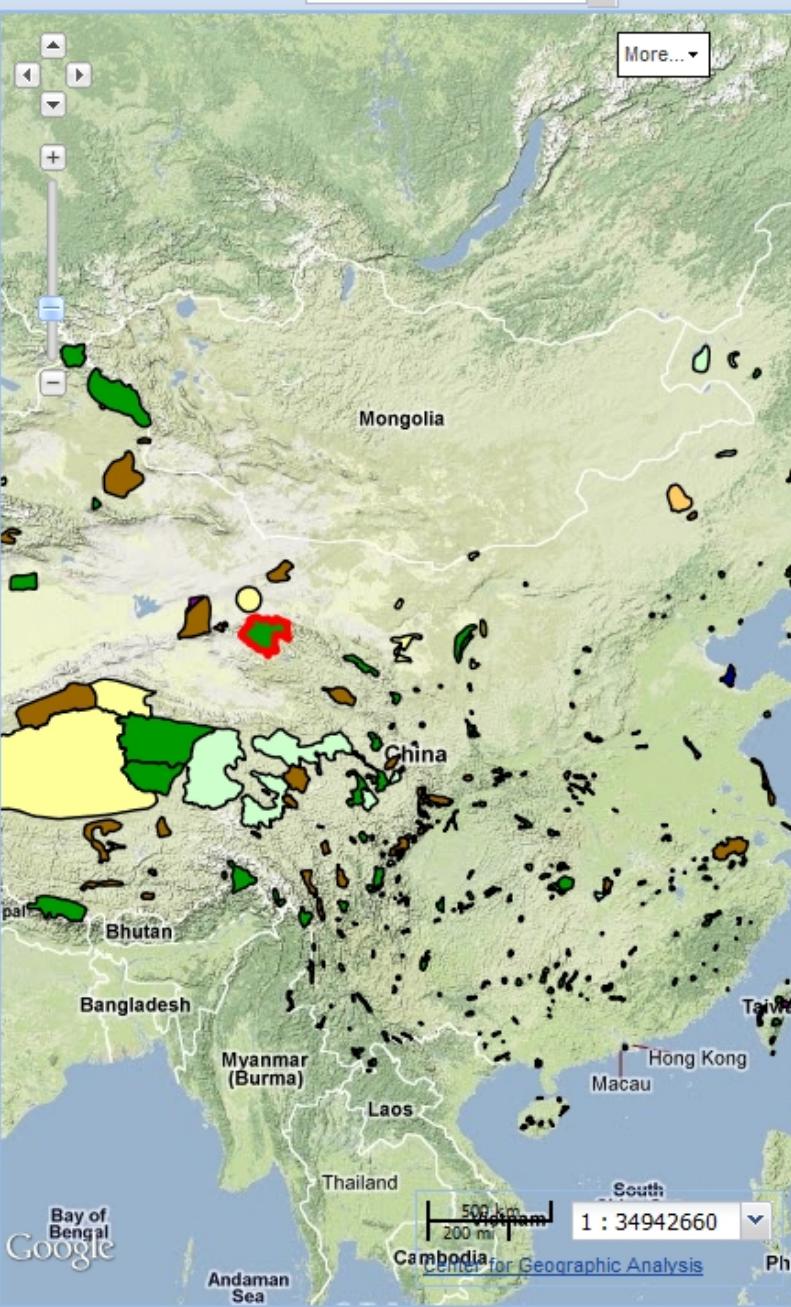
## Feature Details

Name	孔雀河
Basin_Nm	Tarim Basin
Region	Interior
Basin	KN
Basinnum	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

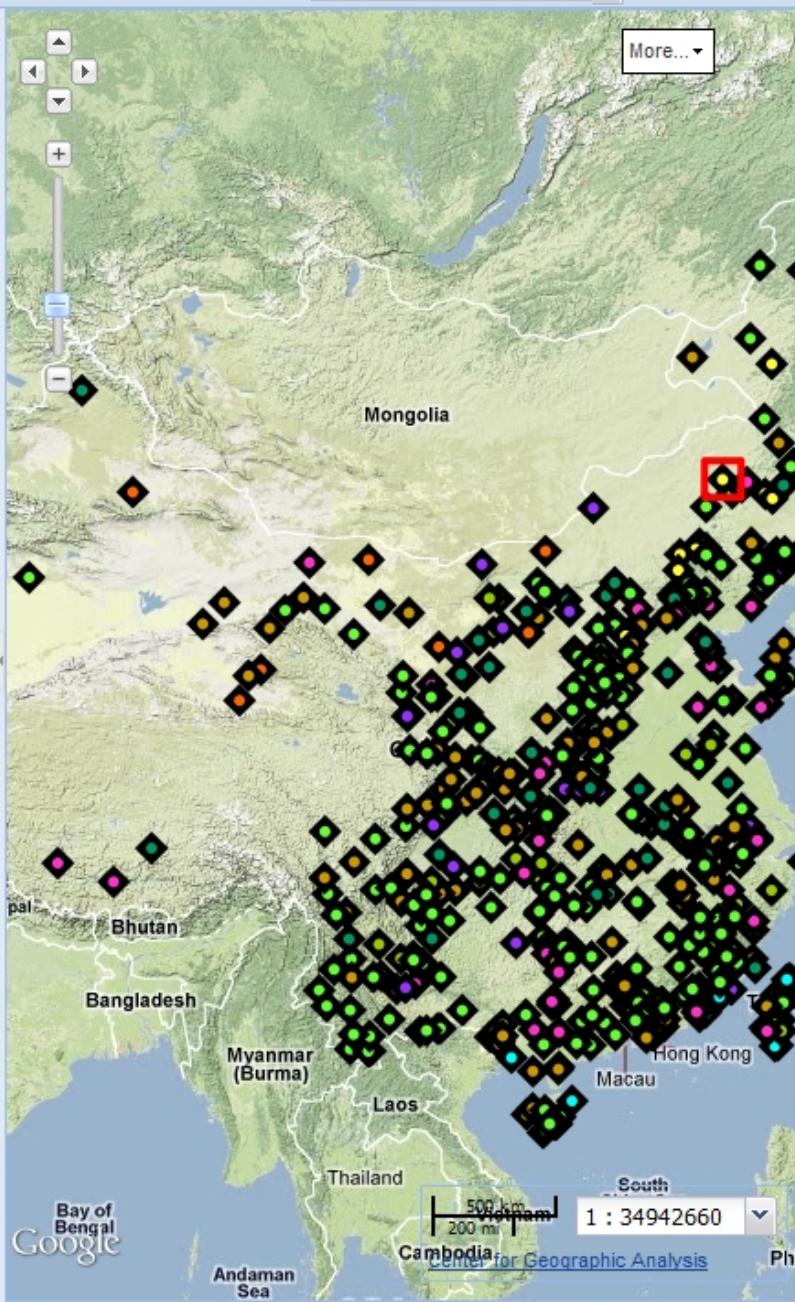
## Feature Details

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

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Name

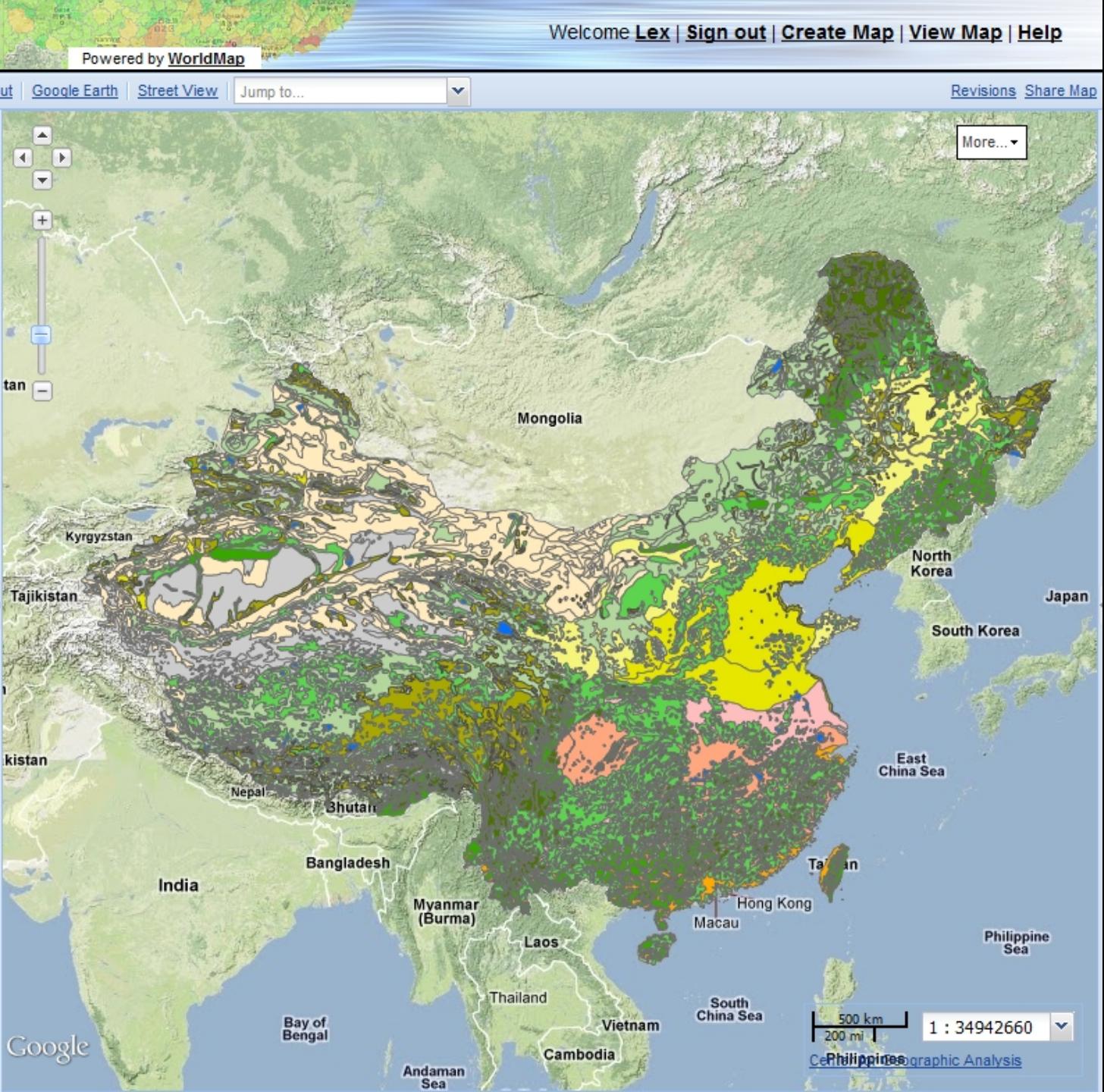
 Nature Reserve Points (2008)

## 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

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  - [Roads Highways \(2009\)](#)
  - [High Speed Rail Stations \(2010\)](#)
  - [High Speed Railways \(2011\)](#)
  - [Railway Stations \(2010\)](#)
  - [Raiway Stations \(Taiwan\)](#)
  - [Railways \(2005\)](#)
- [Place Locations](#)
- [Education](#)
- [Economy](#)
- [Census](#)
- [Energy](#)
- [Environment](#)
  - [Water Quality \(2005\)](#)
  - [Water Quality \(2004\)](#)
  - [Urban Waste Water \(2000\)](#)
  - [Urban Waste Water \(1996\)](#)
  - [Urban Waster Water \(1990\)](#)
  - [Nature Reserve Points \(2008\)](#)
  - [Nature Reserve Areas \(2008\)](#)
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  - [Mountain Peaks and Passes](#)
  - [China Rivers \(Sorted by Basin\)](#)
  - [Watersheds \(2000\)](#)
  - [Vegetation \(2000\)](#)
- [Public Health](#)
- [Boundaries](#)
  - [Time Zones](#)
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  - [Townships \(2000\) China Data](#)
  - [Provinces \(1997\)](#)
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## High Speed Rail Stations (2010)

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

## High Speed Railways (2011)

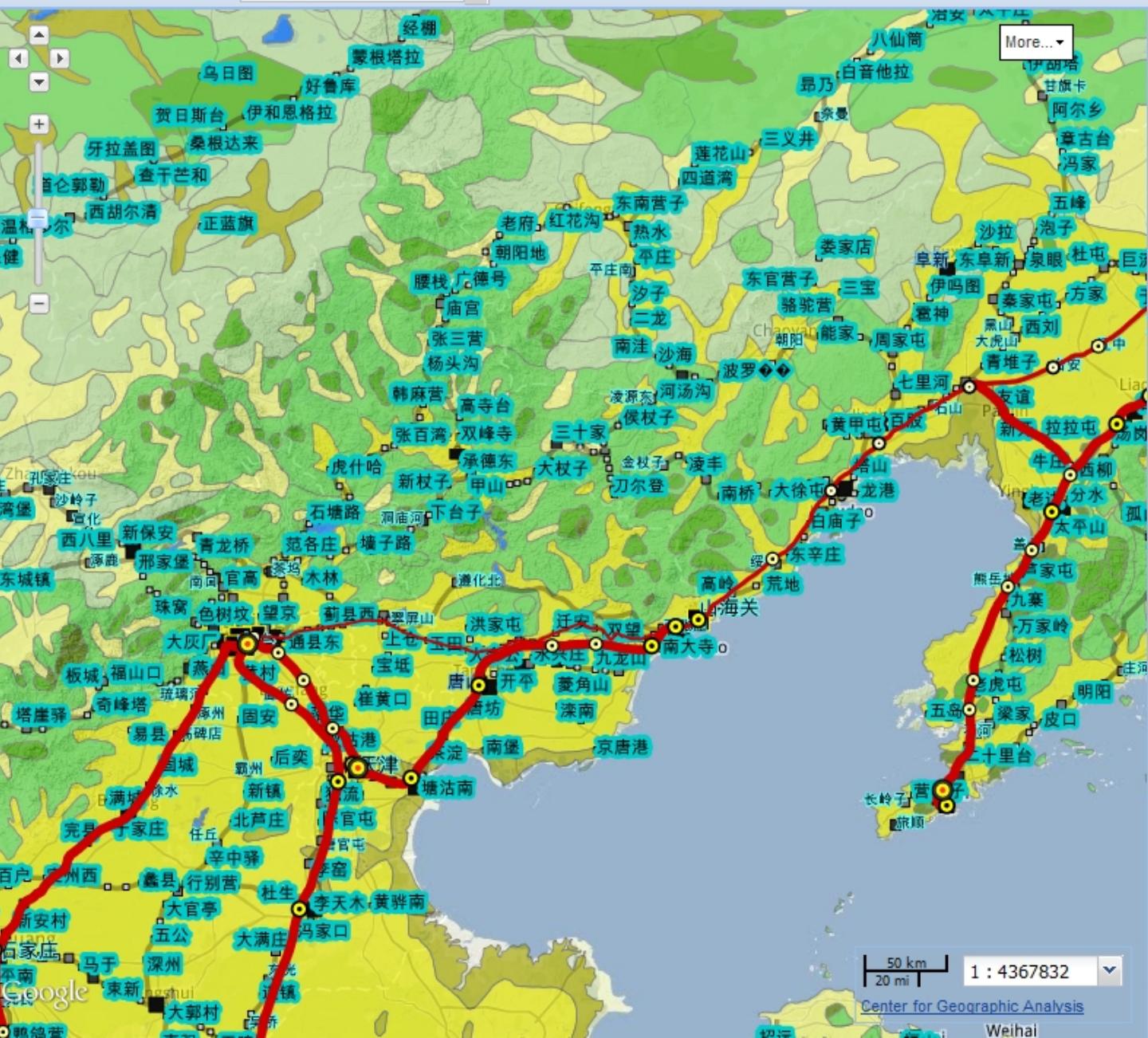
- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

## Railway Stations (2010)

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

## Railways (2005)

- 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

Enter search...  

1 : 4367832

50 km  
20 mi

Center for Geographic Analysis

Weihai

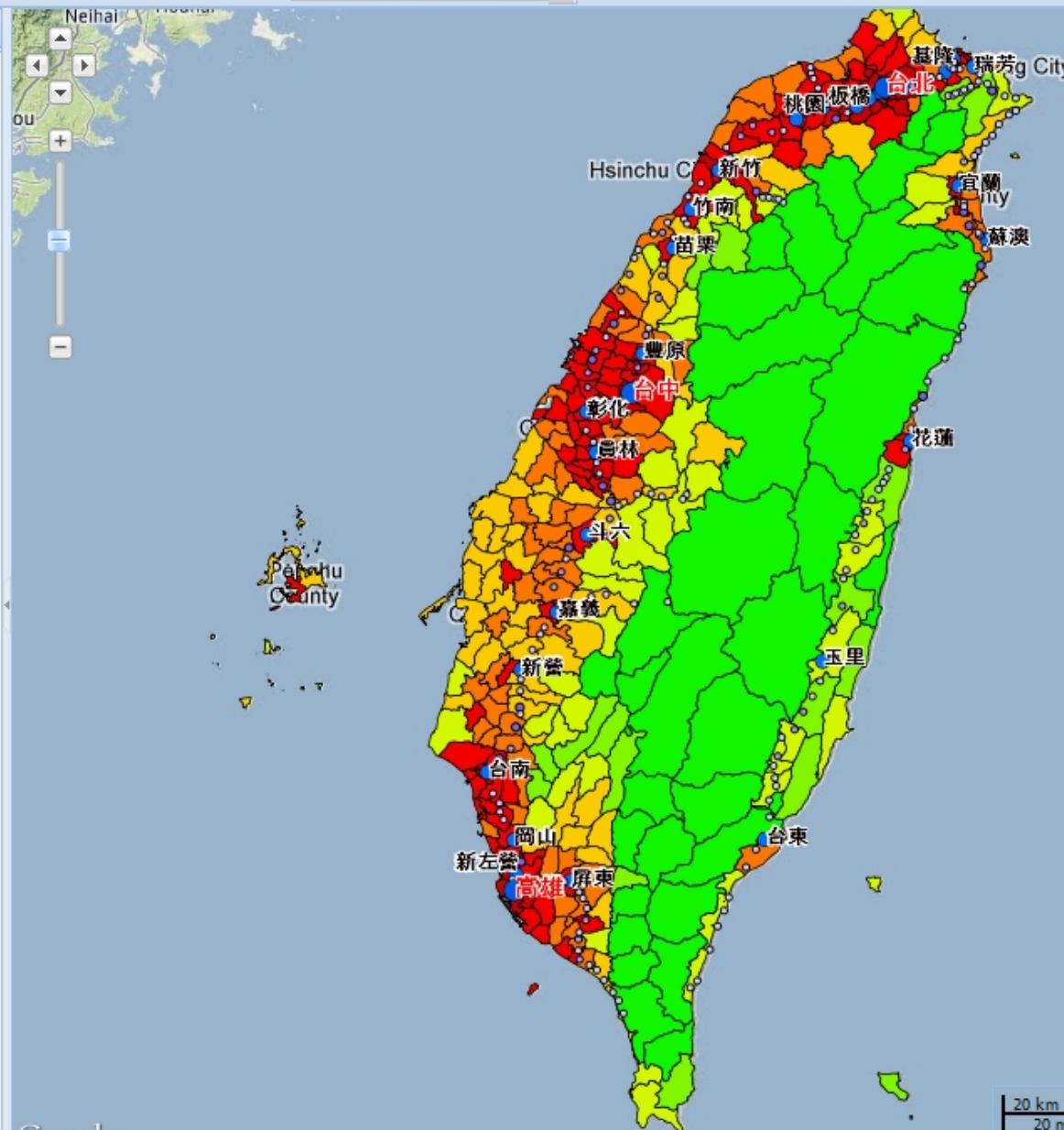
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## Railway Stations (Taiwan)

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

Taiwan, Pop Density (2000) km<sup>2</sup>

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

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20 km | 20 mi | 1 : 2183916

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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



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## High Speed Rail Stations (2010)

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

[More...](#)

## High Speed Railways (2011)

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

## Railways (2005)

- Qing Courier Stops
- Qing Courier Routes

## Physiographic Macroregions



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## N. Song Entry Exams (Persons)

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

## High Speed Railways (2011)

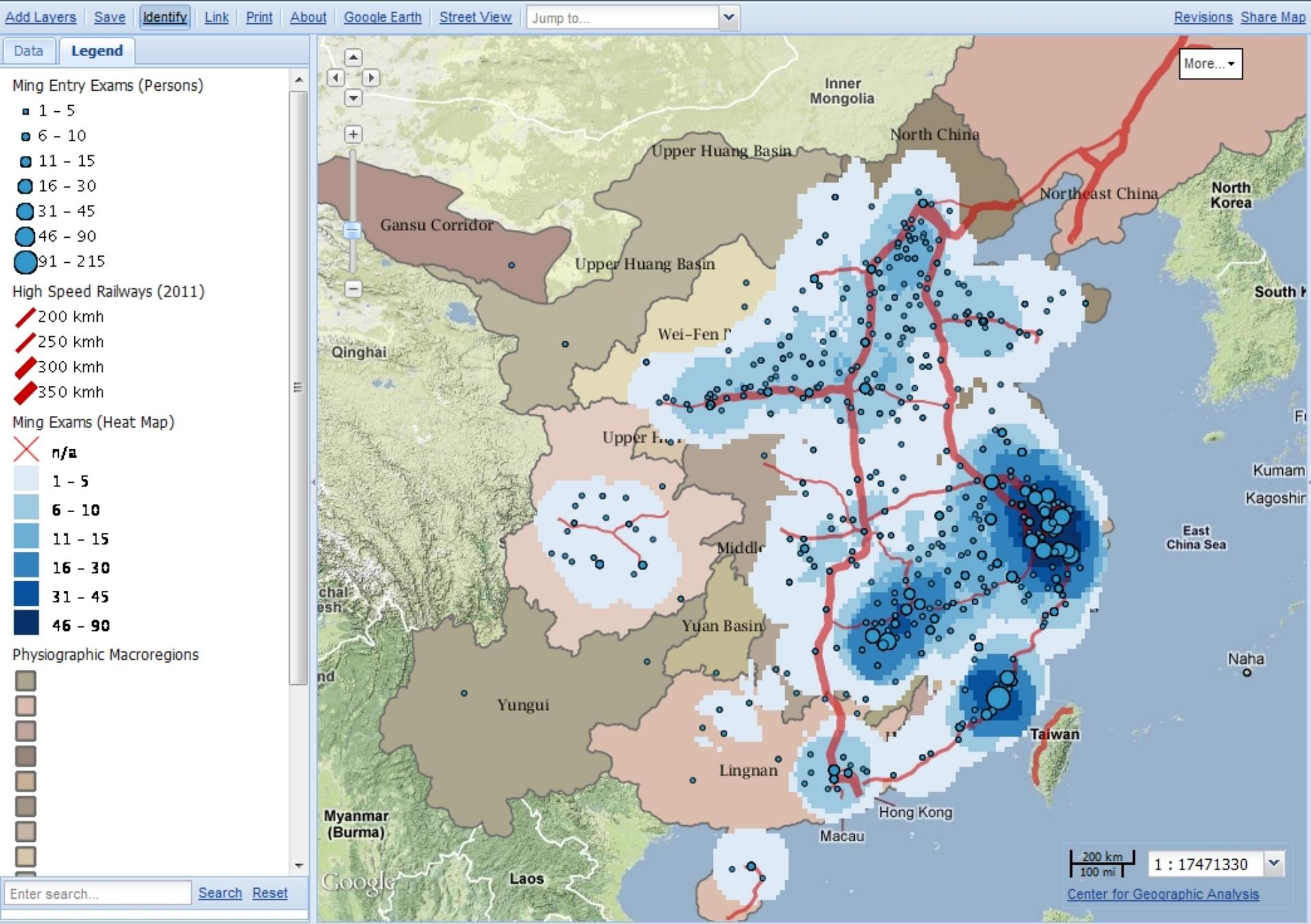
- 200 kmh
- 250 kmh
- 300 kmh
- 350 kmh

## N. Song Exams (Heat Map)

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

## Physiographic Macroregions





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## Qing 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

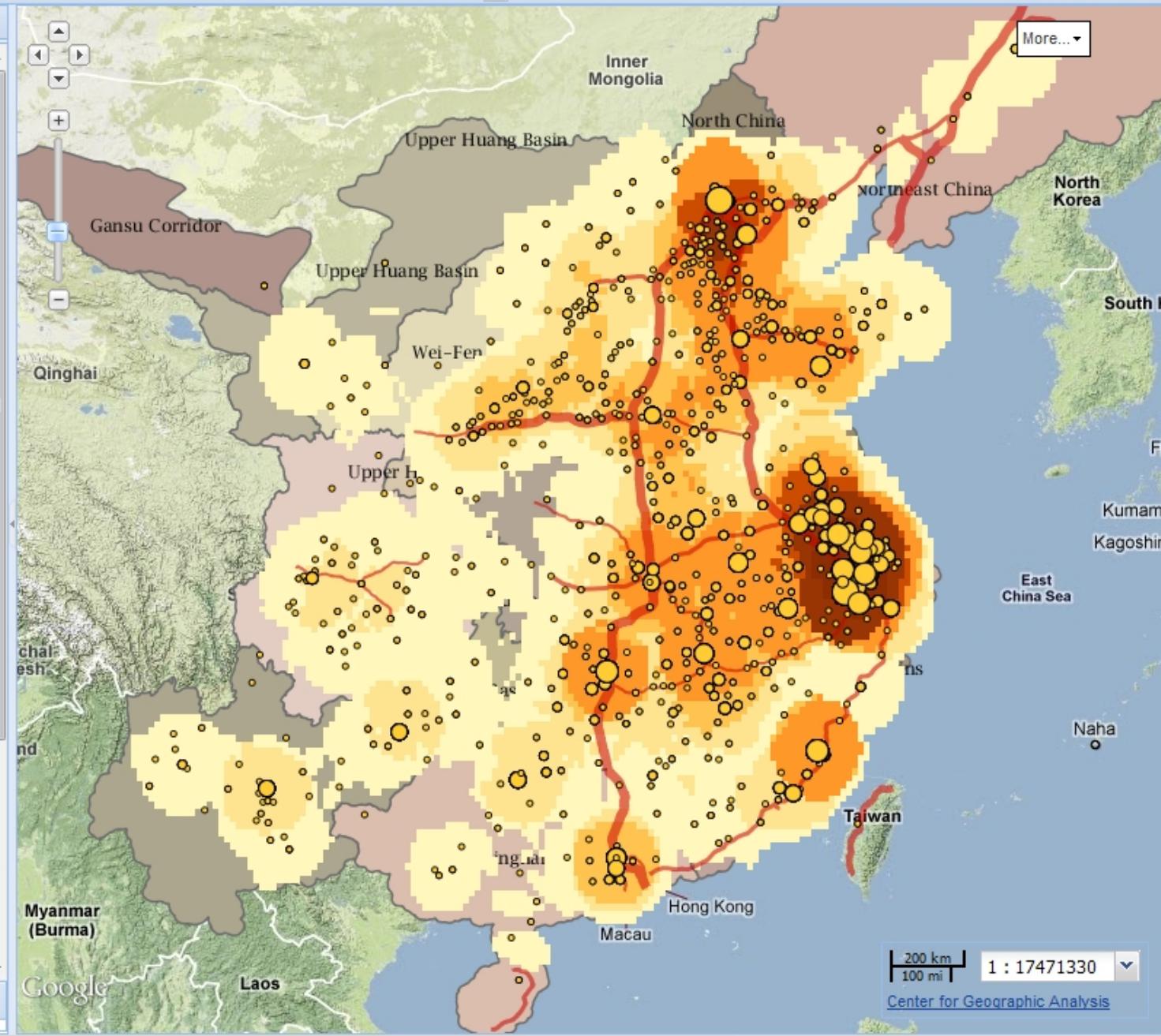
## Qing Exams (Heat Map)

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

## Physiographic Macroregions



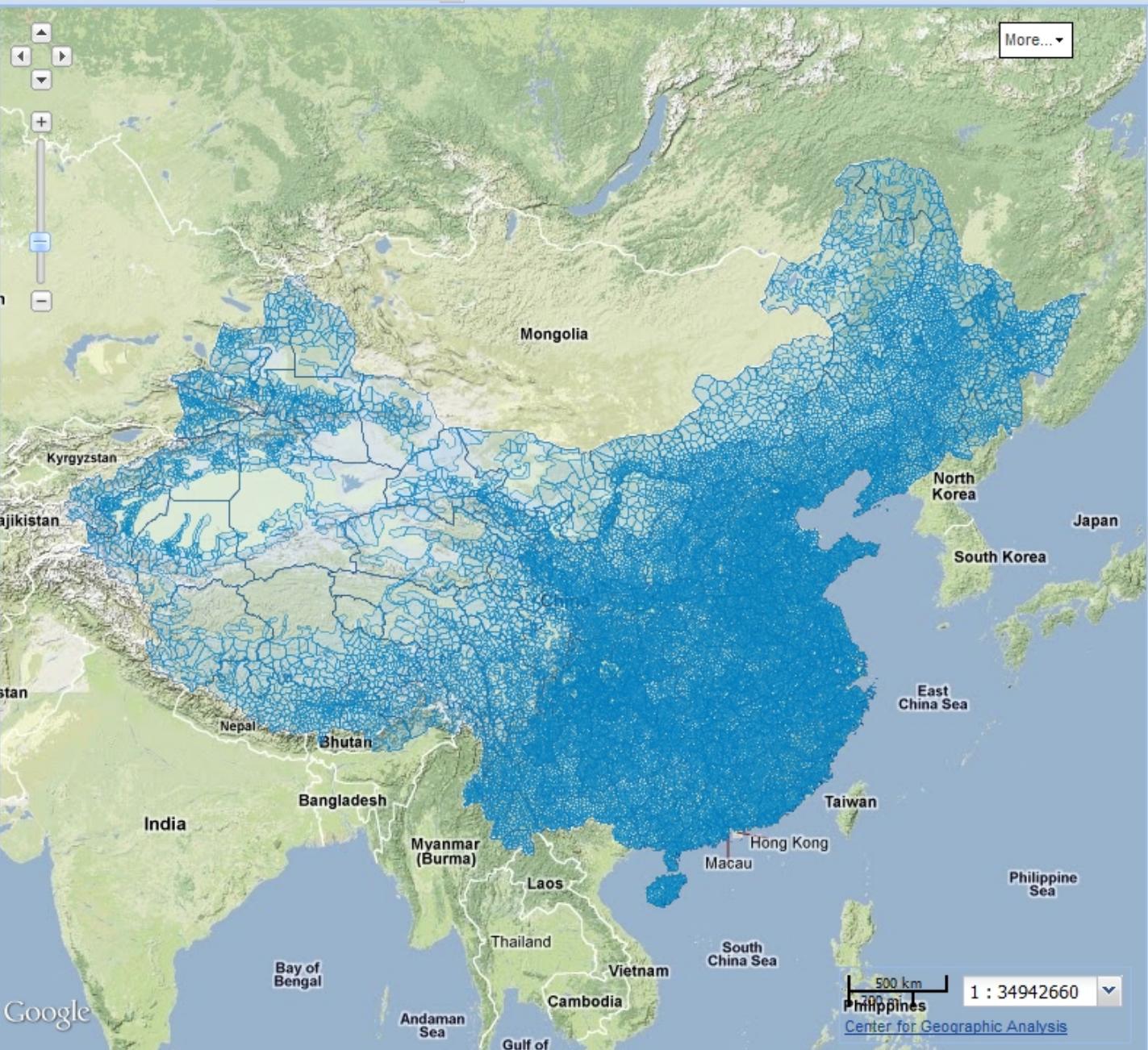
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**Data**

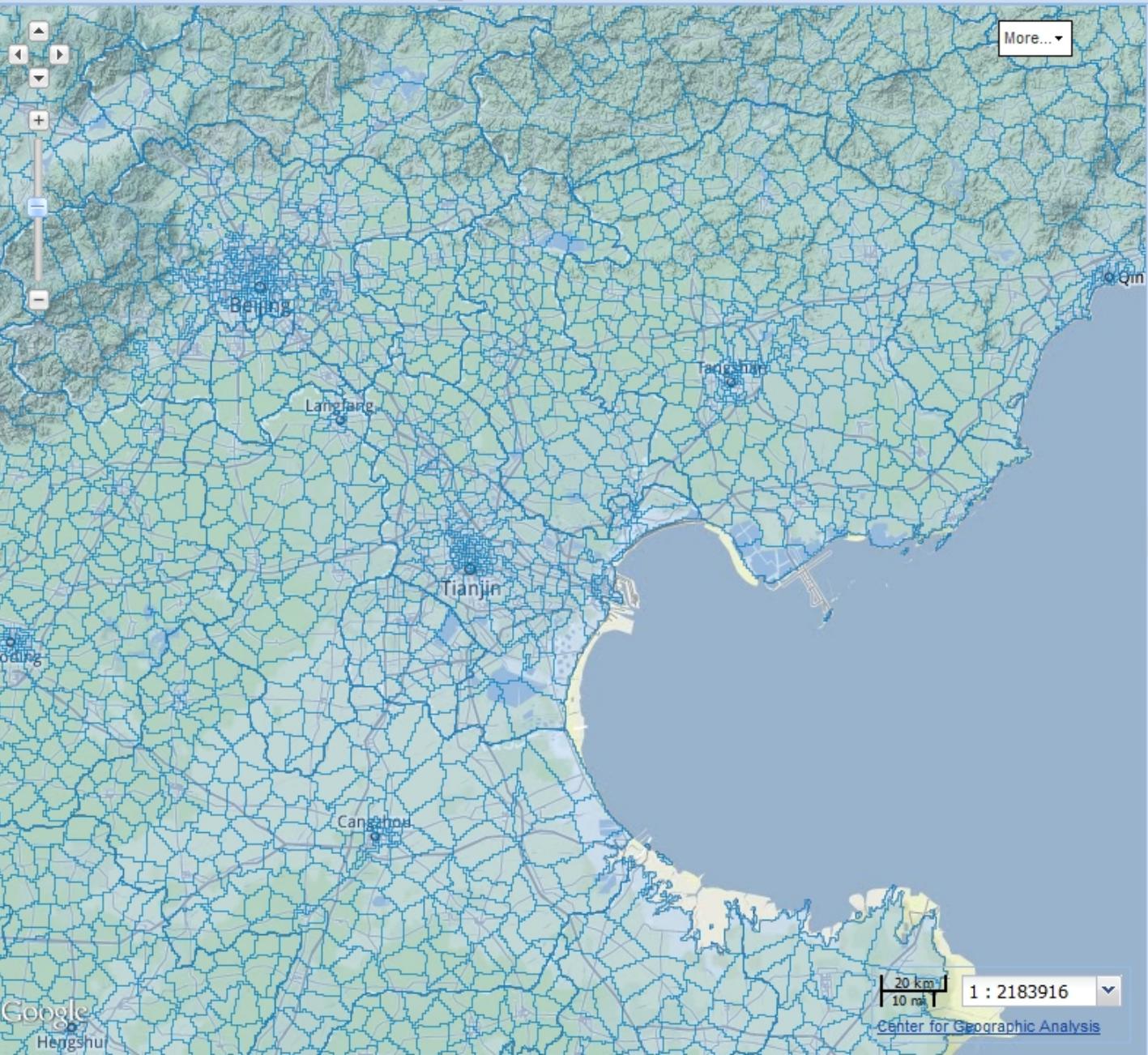
## Legend

- 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
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    - Prefectures (2000) China Data Center
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  - Utilities & Infrastructure

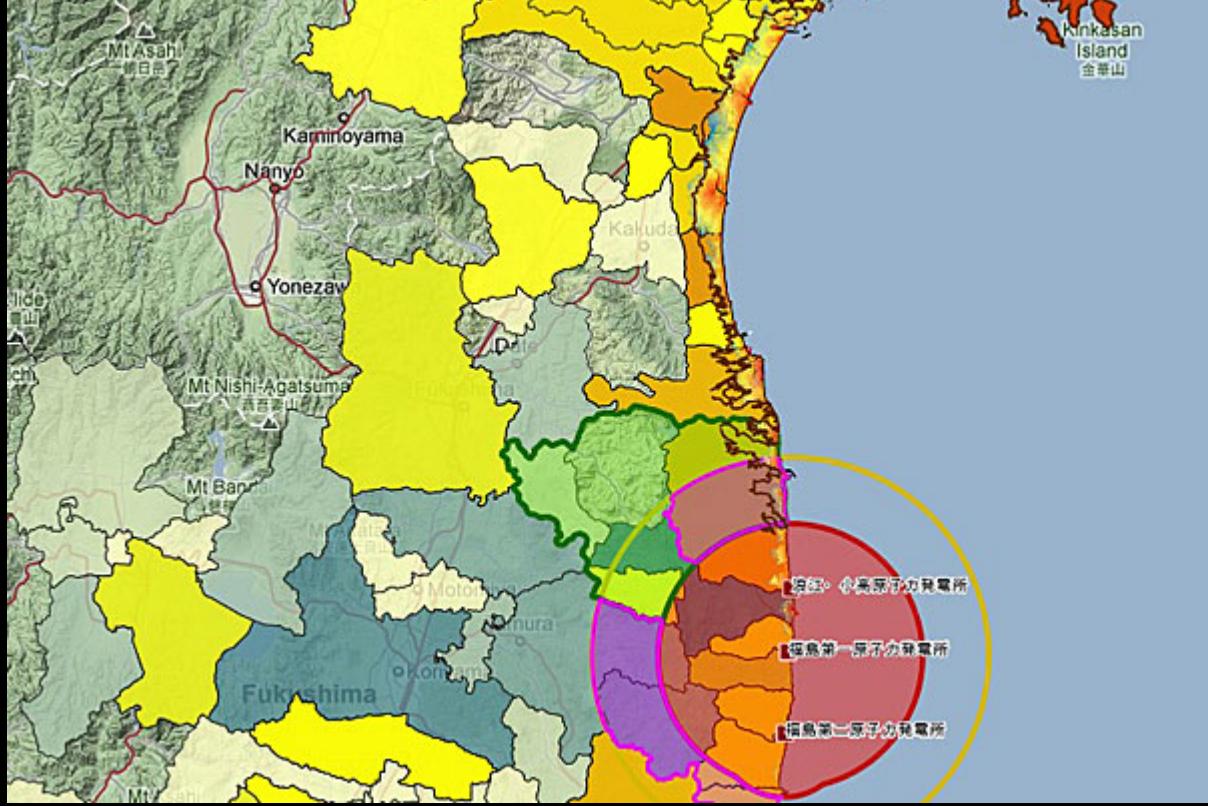


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  - [Population Density \(1964\) km2](#)
  - [Population Density \(1953\) km2](#)
  - [Sex Ratio \(2000\)](#)
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Center for Geographic Analysis



# JapanMap

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



# Japan Sendai Earthquake Data Portal

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

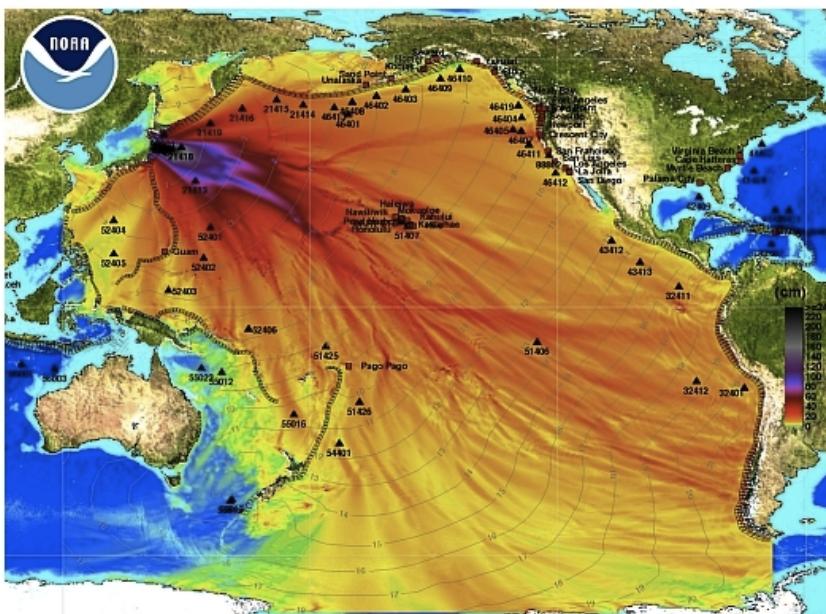
If you have data to share, or need an upload point for inter-agency data exchange, please contact us: [chgis@fas.harvard.edu](mailto:chgis@fas.harvard.edu)

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

## Evacuation Centers Status [22 Mar 2011]



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- [Map Action](#) --

## Search and Rescue Atlases [NGIA]



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[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] 炊き出しまつぶ、緊急避難場所



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

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- [news \(1\)](#)
- [Niigata \(1\)](#)
- [nuclear \(1\)](#)
- [nuclear power plants \(7\)](#)
- [Ofunato \(1\)](#)
- [Ofunato Port \(1\)](#)
- [Okuma \(1\)](#)
- [Onagawa Port \(1\)](#)
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- [PDC visualization \(1\)](#)
- [photos \(1\)](#)
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**Japan Crisis Map**  
**Telescience**

**GEO** GROUP ON EARTH OBSERVATIONS

**GEOFABRIK**  
neogeografie // software // beratung

**Ushahidi**

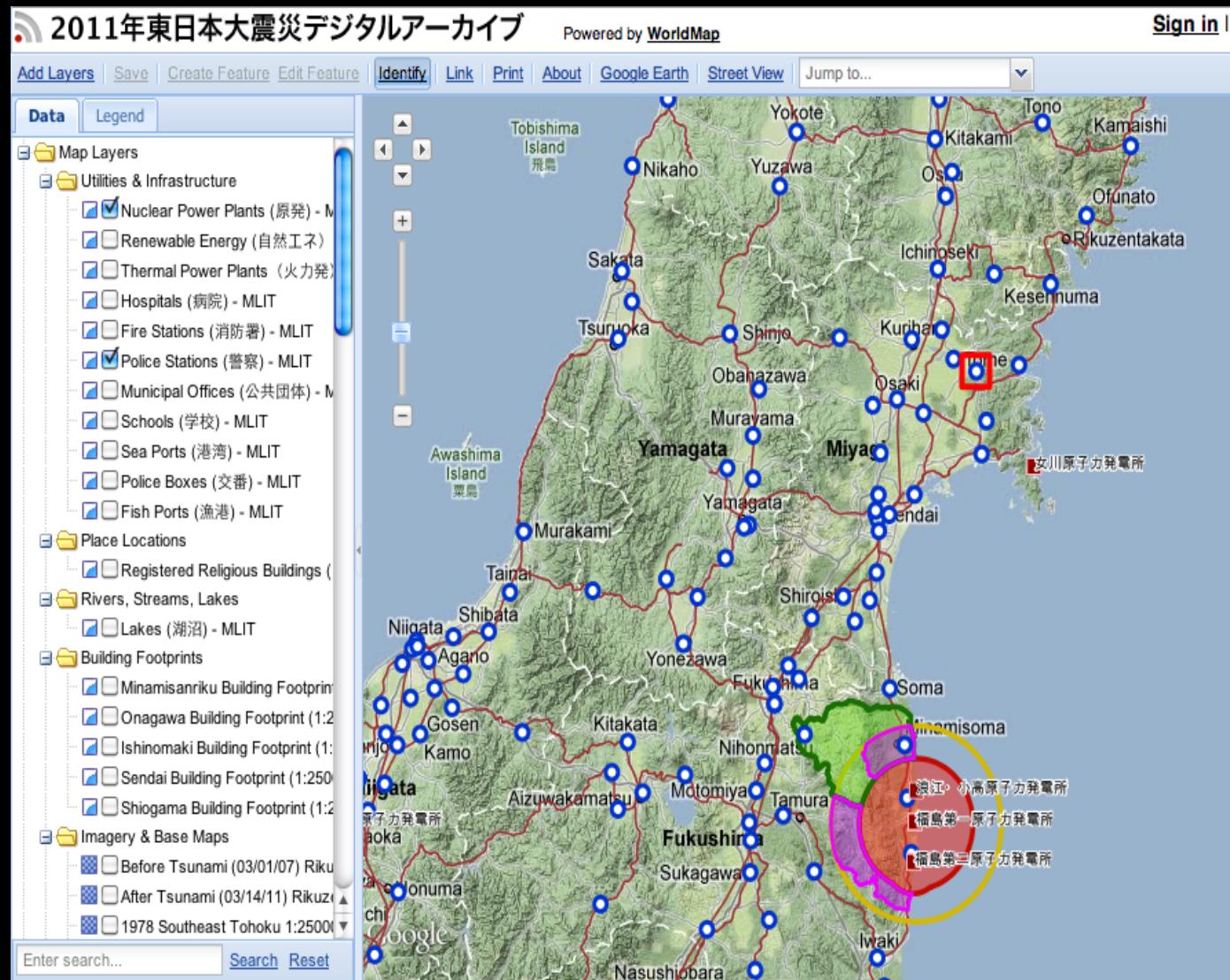
**UN-SPIDER**

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

**Intl Charter - Space and Major Disasters**

**ReliefWeb**

**geocommons**



# 2011年東日本大震災デジタルアーカイブ

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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

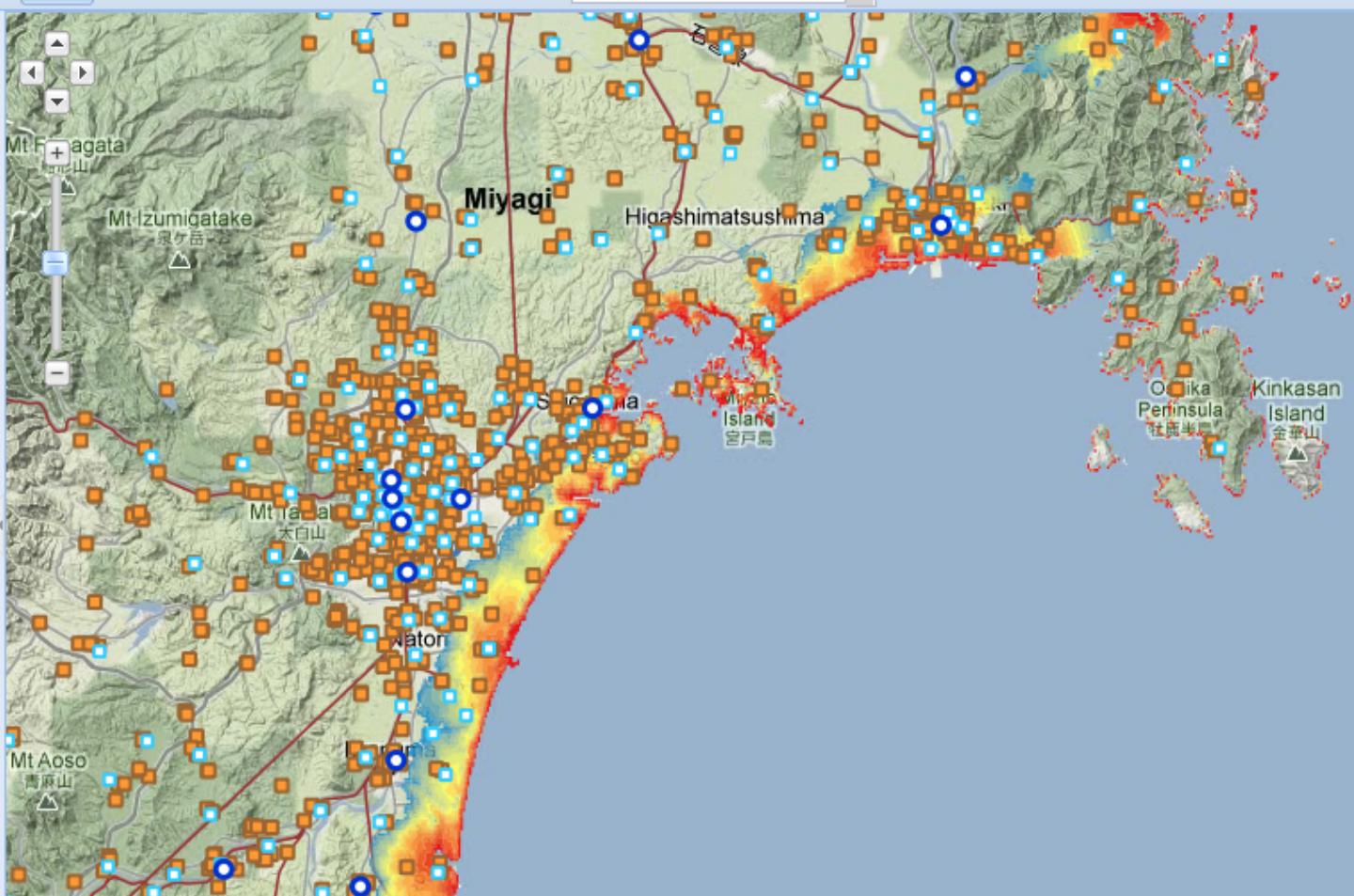
5.333333333

5.777777778

6.222222222

6.666666667

7.111111111



# 2011年東日本大震災デジタルアーカイブ

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Data

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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

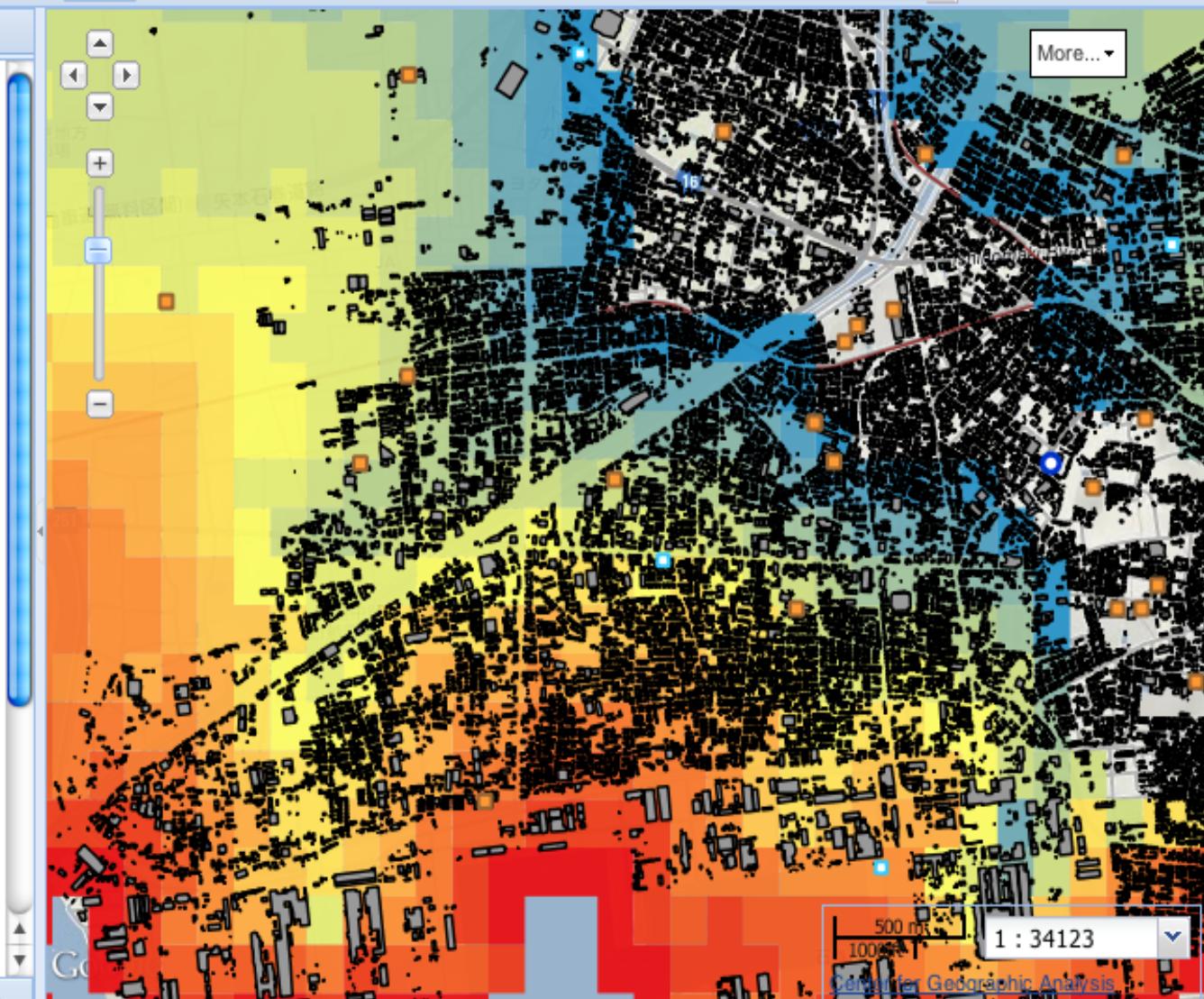
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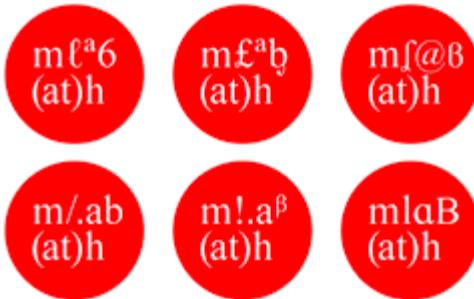


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CellarDoor Geographic Analysis

## metaLAB (at) Harvard



2011年4月30日土曜日

### 希望の灯火

私は東日本大震災の復興に関するコレクションを作っていた。

2011年東日本大震災デジタルアーカイブ

Readers

Archive

2011 (35)  
5月 (1)  
3月 (1)  
2月 (2)  
1月 (3)  
4月 (17)  
新規登録  
一覧表示を変える  
四ヶ月  
過去の記事 (大震災関連記事)  
最新記事  
「読み書き (静)」  
検索



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温・O・ライシャワー日本研究所

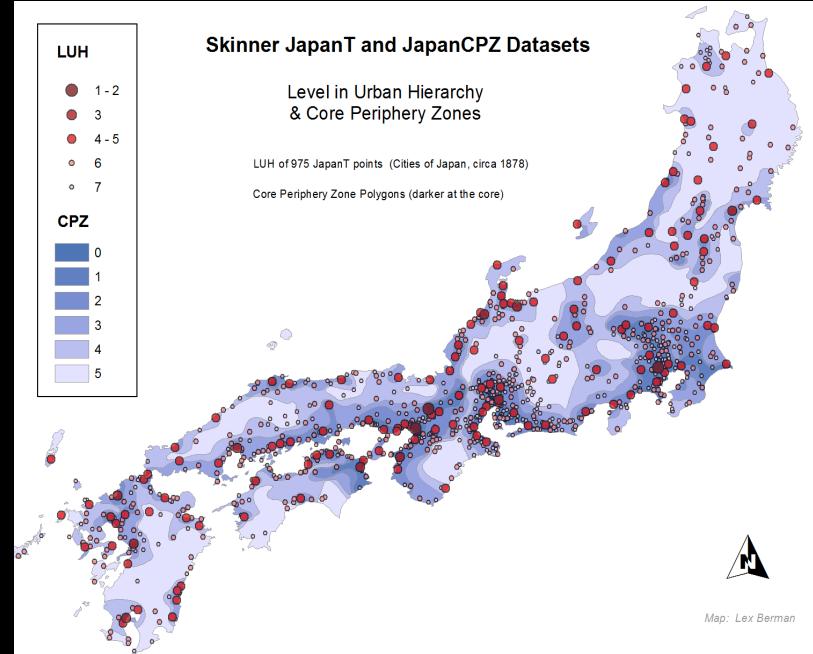
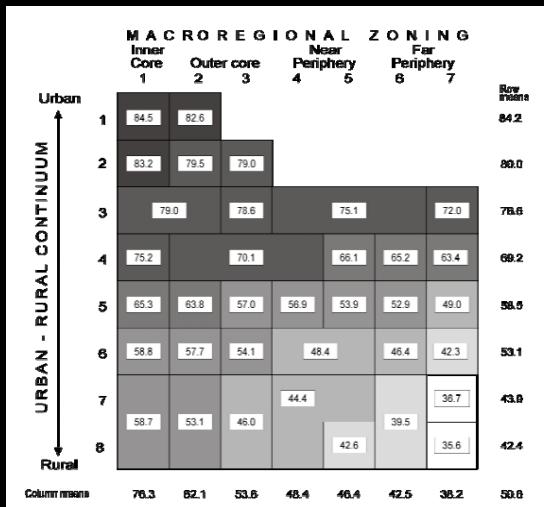
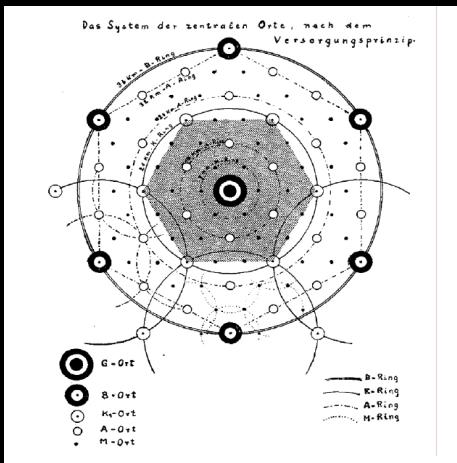


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# G. W. Skinner Archive

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

## LUH

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

## CPZ

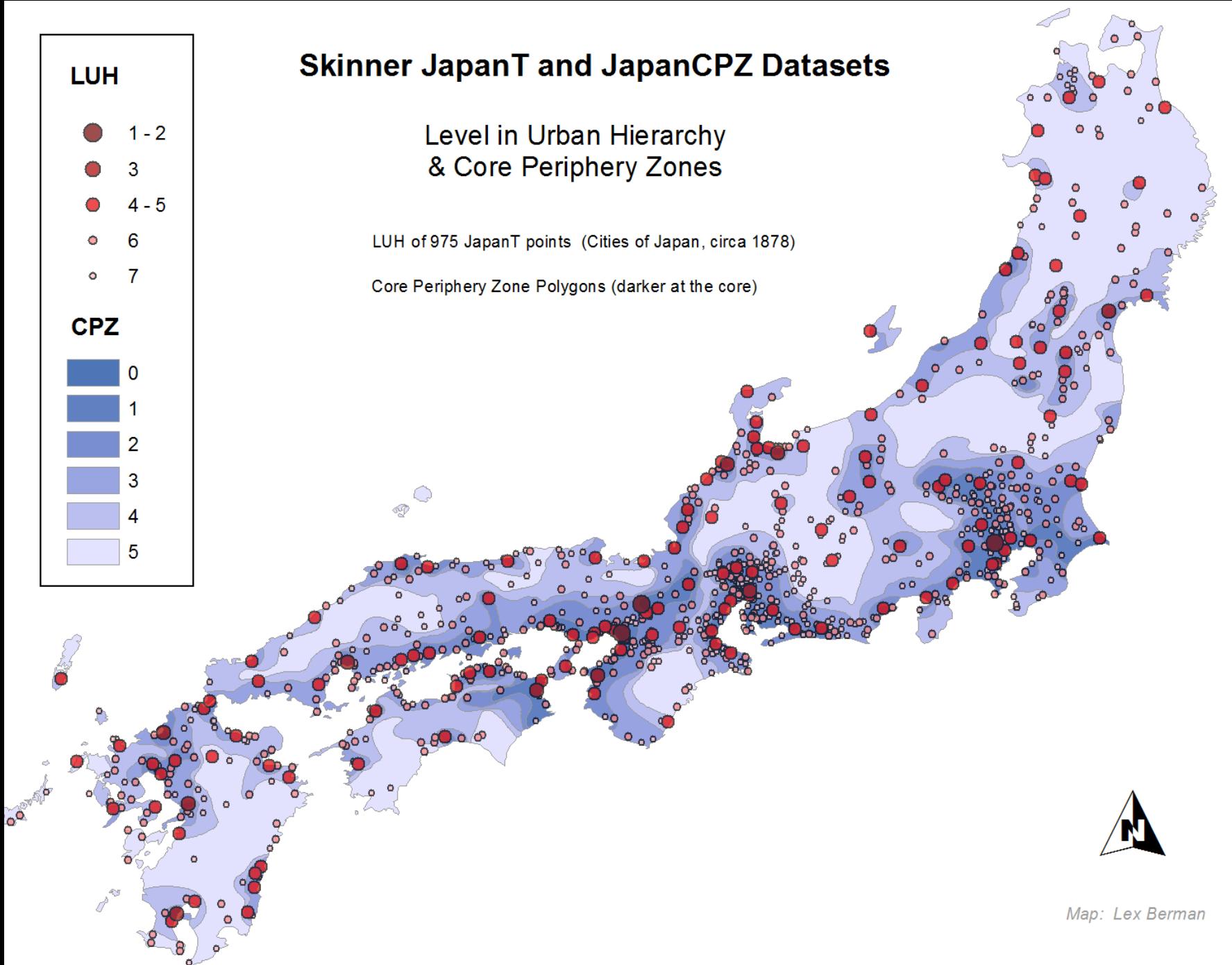
- 0
- 1
- 2
- 3
- 4
- 5

# Skinner JapanT and JapanCPZ Datasets

Level in Urban Hierarchy  
& Core Periphery Zones

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

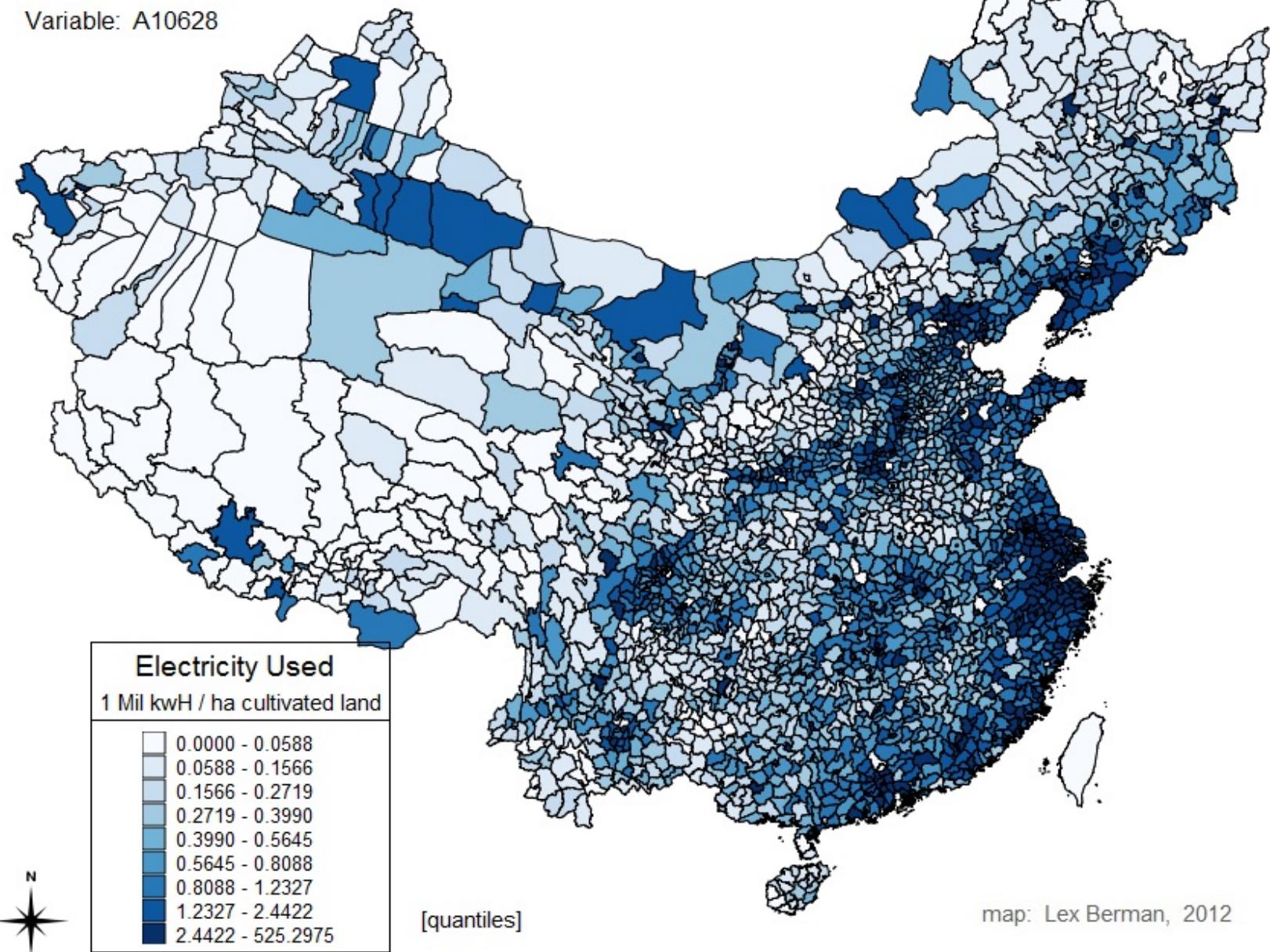
Core Periphery Zone Polygons (darker at the core)



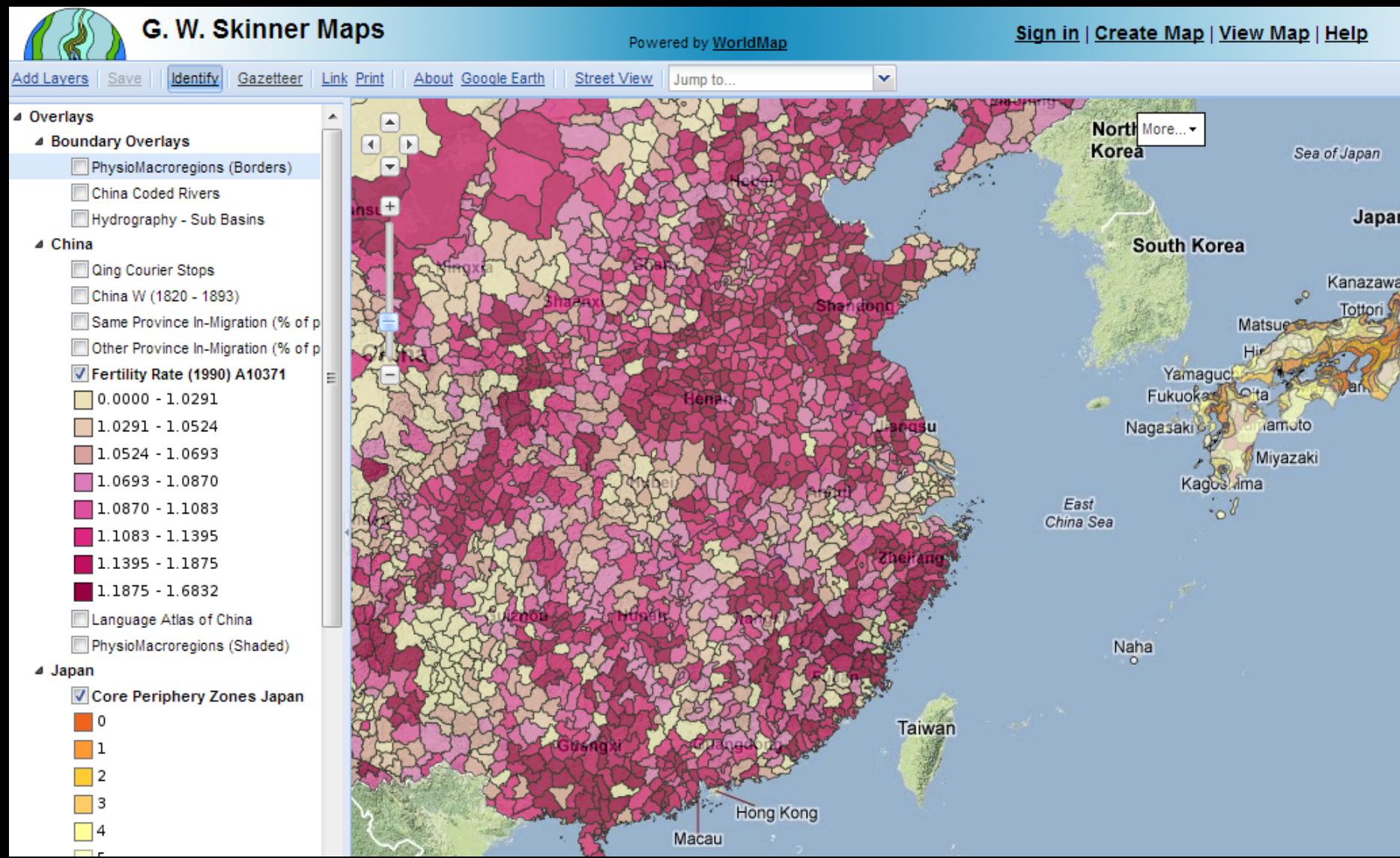
Map: Lex Berman

# Skinner ChinaA AVARS Part3

Variable: A10628



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





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BUDDHIST  
RESOURCE  
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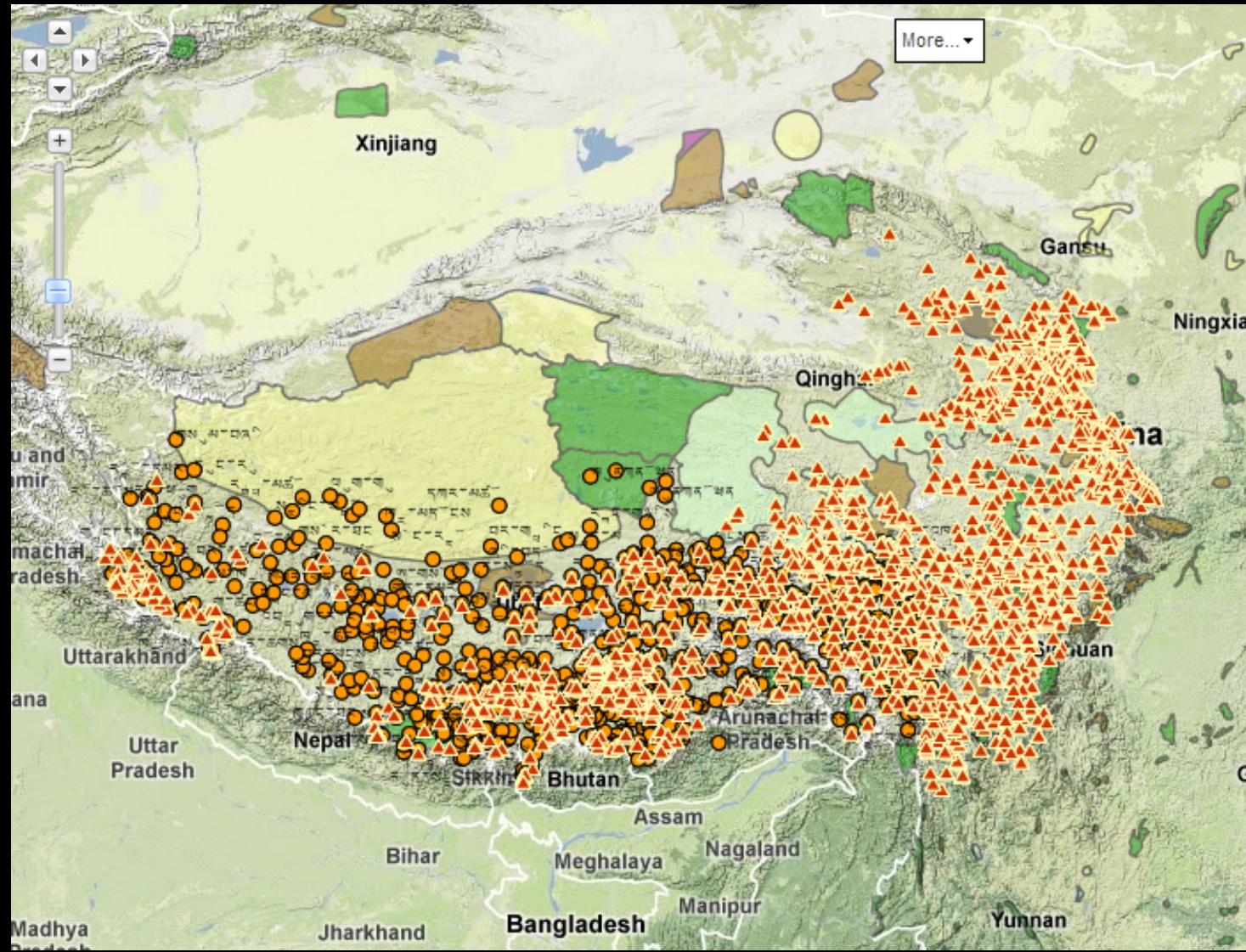
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and  
Himalayan  
Library



# 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>

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**G. W. Skinner Archive**  
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