

Funded By:

Henry R. Luce Foundation (2001 – 2004)

National Endowment for the Humanities (2005 – present)

placename

admin unit, populated place, natural feature, religious site, archaeological site, trade route, place where an event occurred, etc

feature type

city, village, mountain, temple, ruin, trade route, etc

footprint

latitude and longitude for each feature

valid date

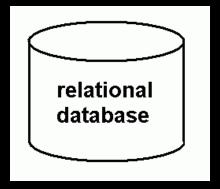
date or range of time for which this record is valid

source note

citation of data source, commentary on feature

core elements of a digital gazetteer

digital gazetteer



placename

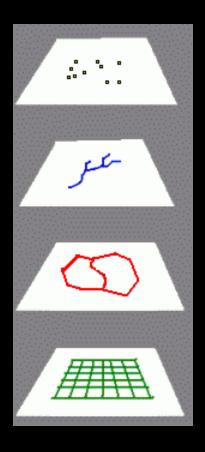
feature type

coordinates

valid date

source note

GIS layers



spatial objects

222 BCE

1911 CE

POINT Features:

National Capitals

Province Capitals

Prefecture Capitals

County Capitals

Towns & Villages

POLYGON Features:

National & Regime Boundaries

Province Boundaries

Prefecture Boundaries

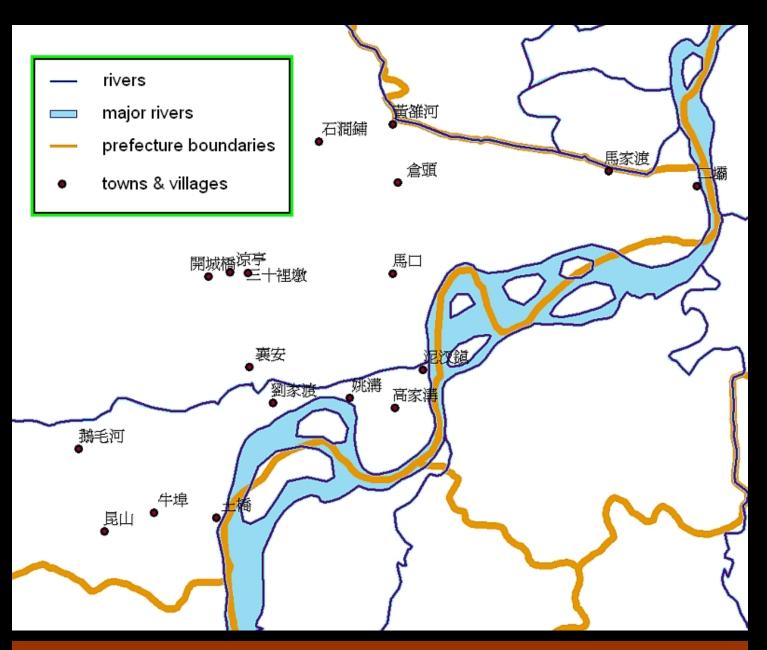
1911 County Boundaries

scope: a base GIS of Chinese admin divisions

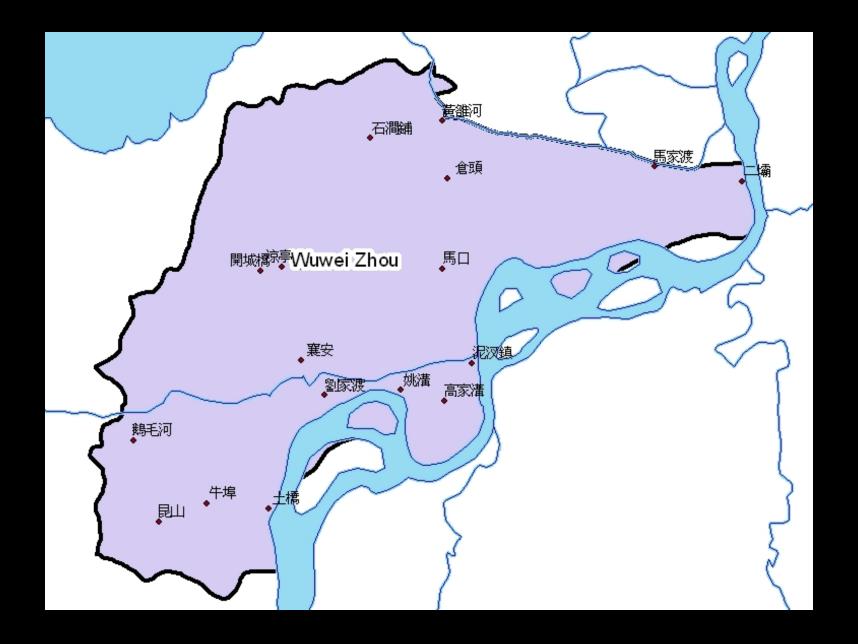


Reference layer: 1820 Qing Dynasty

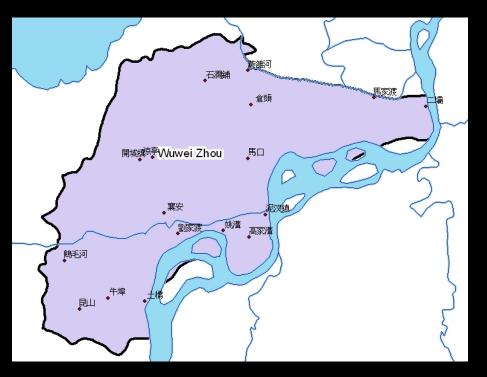


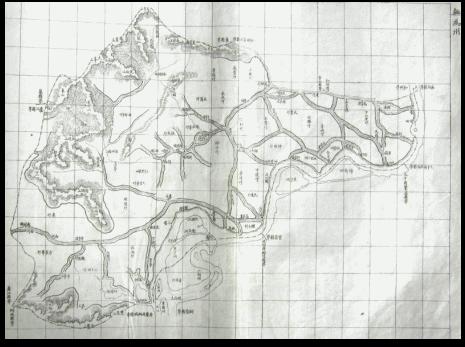


Digitization process: town points entered

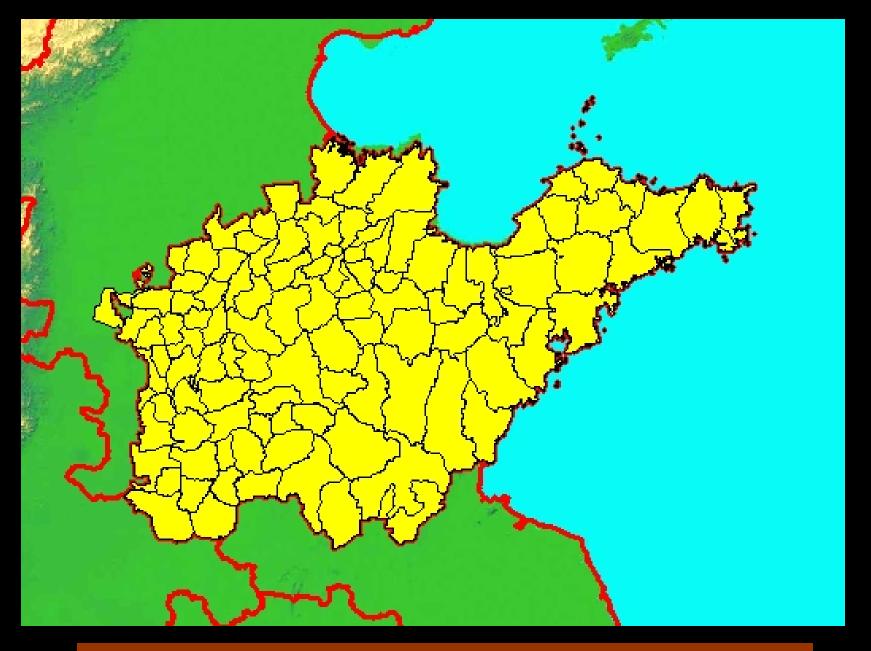


Digitization process: boundary entered

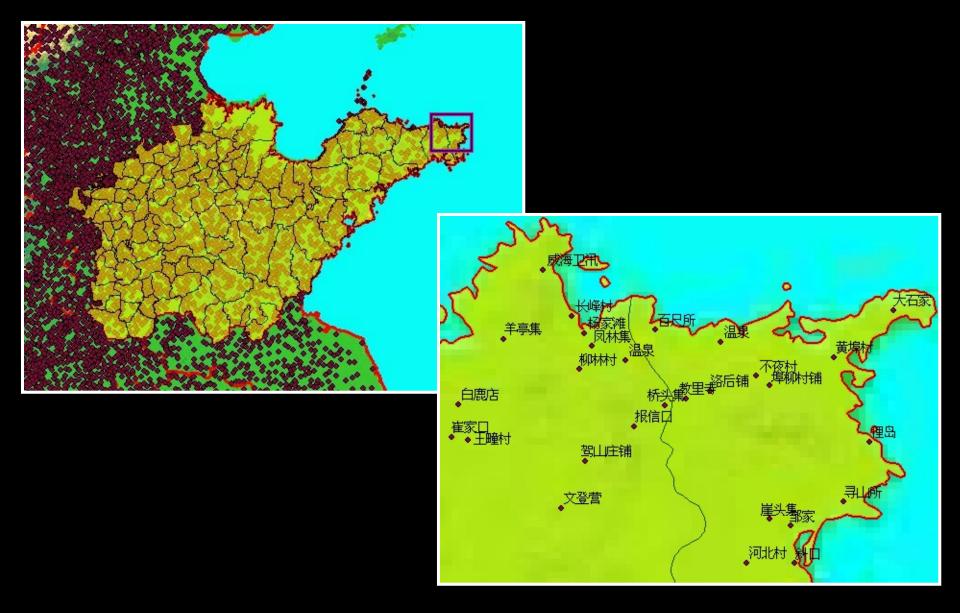




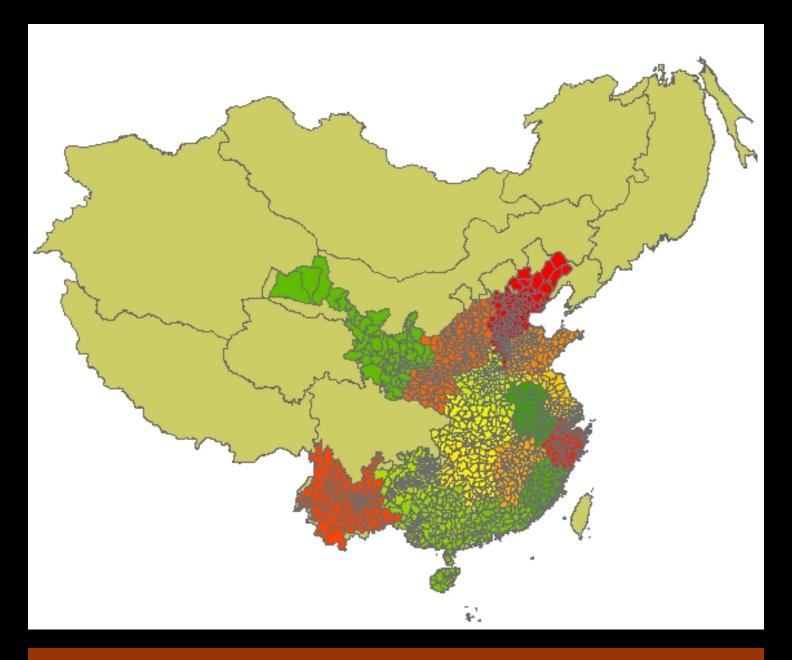
Comparison of historic map with CHGIS data



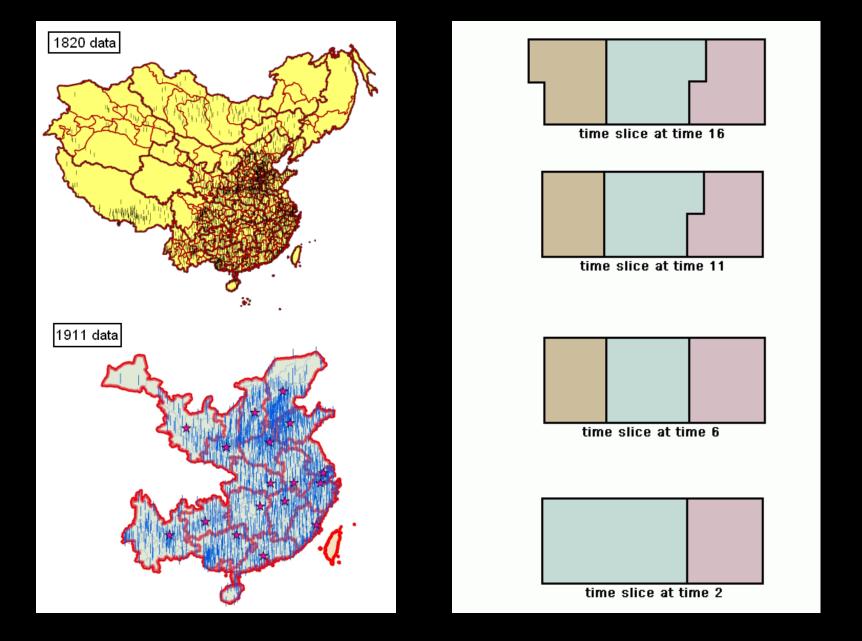
Example: Shandong 1911 county boundaries



Example: Shandong with Town points

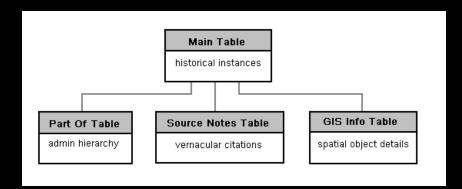


Currently complete 1911 county boundaries



Time Slice data = specific year of validity

Data Model



Name Change

name_py	name_ft	beg_chg_type	end_chg_type	beg_yr	end_yr
Chongde Xian	崇德縣	更名	更名	1369	1661
Shimen Xian	石門縣	更名	数据下限	1662	1911

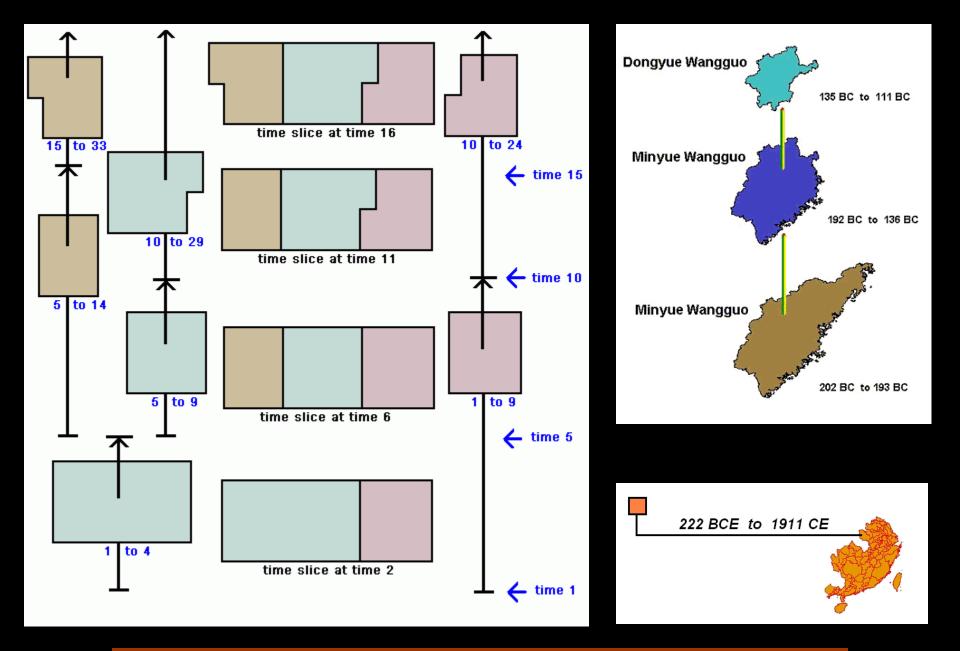
Unit Change

name_py	name_ft	beg_chg_type	end_chg_type	beg_yr	end_yr
Chongde Xian	崇德縣	新建	更名	939	1294
Chongde Zhou	崇德州	更名	更名	1295	1368
Chongde Xian	崇德縣	更名	更名	1369	1661

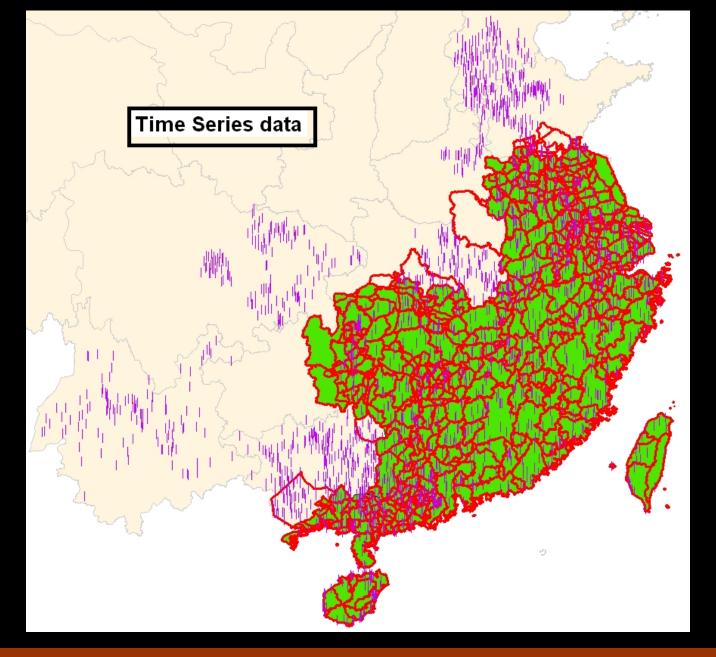
Location Change

name_py	name_ft	beg_chg_type	end_chg_type	beg_yr	end_yr
Lin'an Xian	臨安縣	更名	迁移治所	978	1261
Lin'an Xian	臨安縣	迁移治所	数据下限	1262	1911

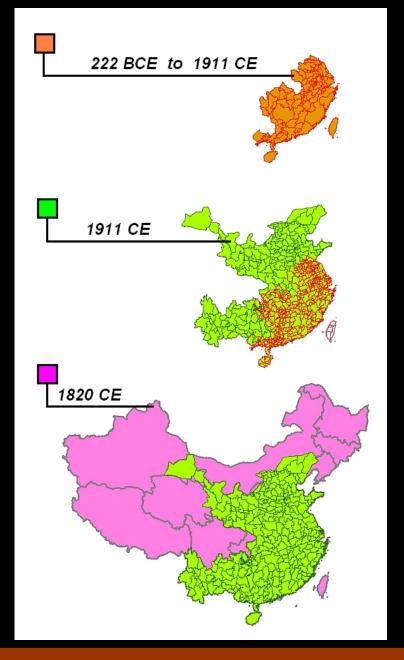
Time Series = instances with ranges of time



Time Series in GIS layers



Time Series current progress



CHGIS – Version 4 datasets

大清一统志

Da Qing yitongzhi.

[Qing National Gazetteer]

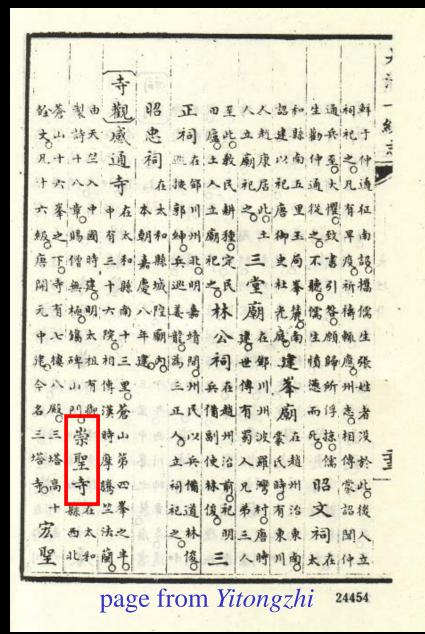
中国の寺院

Yajima, Genryo. Chugoku no ji'in.

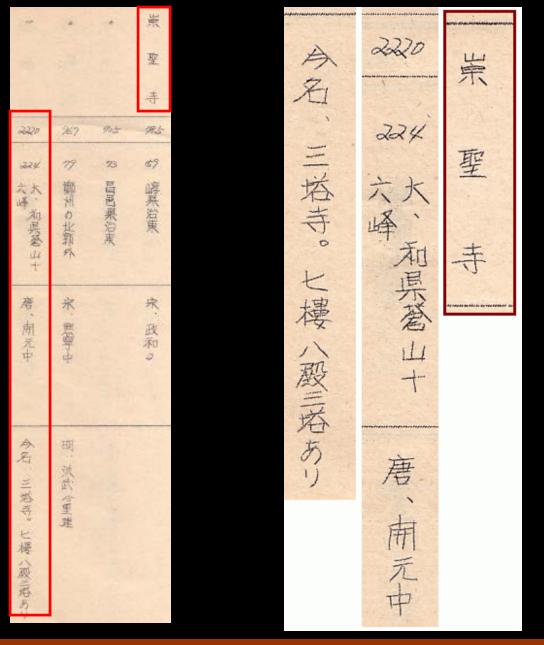
[Temples of China]

Tōhoku Daigaku Fuzoku Toshokan , 1966. [1941]

Buddhist temple gazetteer sources

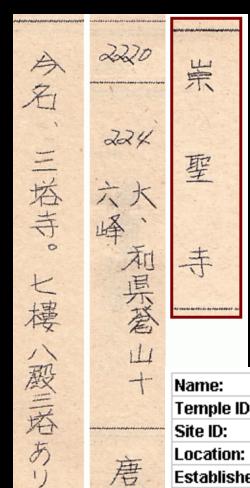


Da Qing yitongzhi (Yitongzhi)



Chugoku no ji'in (Yajima Index)



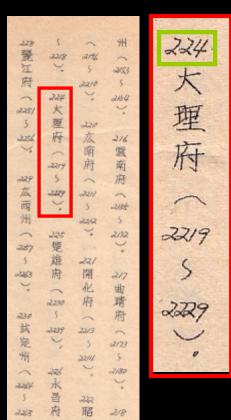


Name:	崇圣寺
Temple ID:	2220
Site ID:	224
Location:	大和县苍山十六峰
Established:	唐开元中
Notes:	今名三塔寺,七楼八殿三塔

Comparison of contents - Yitongzhi & Yajima

唐

用元中



蹈運府

2216

223 普

2740

23/17

必順寧府

2298

2250

228

23/ 元江

2200

232

218

临安

-2181

205

279激江府

	site_alt	site_rom	chgis_id
		Qujing Fu	9757
冶安府	臨安府	Linan Fu	9765
登江府	澄江府	Chengjiang Fu	9760
广南府	廣南府	Guangnan Fu	9762
开化府	開化府	Kaihua Fu	9766
玿通府	昭通府	Zhaotong Fu	9747
普洱府	普洱府	Puer Fu	9767
大理府	大理府	Dali Fu	9753
楚雄府	楚雄府	Chuxiong Fu	9754
	曲靖府 临安府 登江南府 下化府 平祖府 平理府 大理府	曲靖府 曲靖府 協安府 臨安府 登江府 澄江府 首南府 廣南府 叶化府 開化府 昭通府 昭通府 普洱府 普洱府 大理府 大理府	曲靖府 曲靖府 Qujing Fu 临安府 臨安府 Linan Fu 登江府 登江府 Chengjiang Fu 营有府 廣南府 Guangnan Fu F化府 開化府 Kaihua Fu 四通府 昭通府 Zhaotong Fu 曹洱府 普洱府 Puer Fu 大理府 Dali Fu

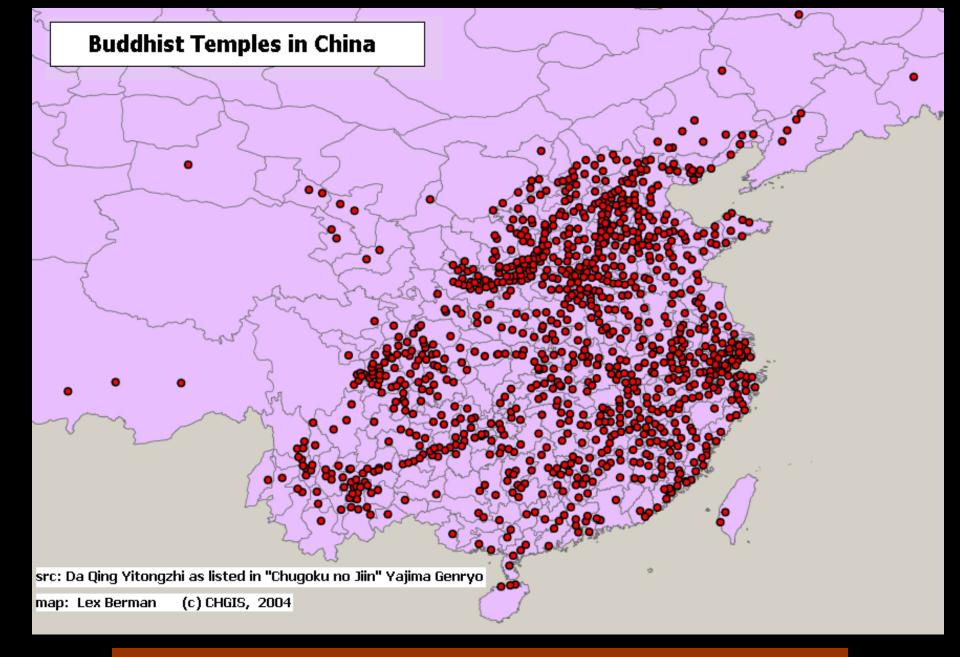
Name:	崇圣寺
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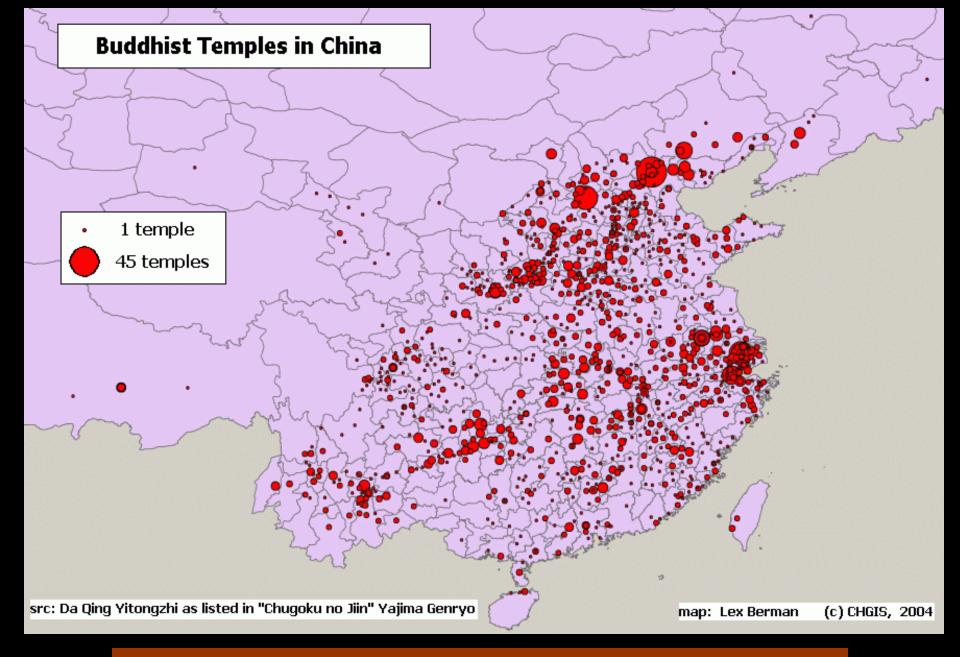
child_id	child_rom	child_utf	child_utf_a	beg_yr		parent_rom	parent_id
1547	Langqiong Xian	浪穹县	浪穹縣	1820	1820 大理府	Dali Fu	9753
1553	Yunlong Zhou	云龙州	云龍州	1820	1820 大理府	Dali Fu	9753
1555	Yunnan Xian	云南县	云南縣	1820	1820 大理府	Dali Fu	9753
1556	Dengchuan Zhou	邓川州	鄧川州	1820	1820 大理府	Dali Fu	9753
1557	Binchuan Zhou	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

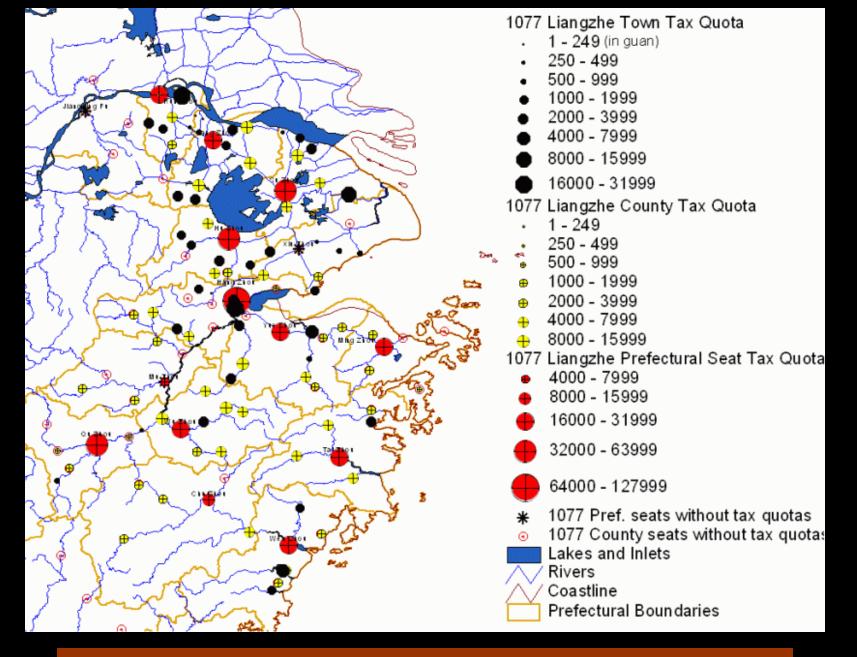
georeferencing temple records, CHGIS tables



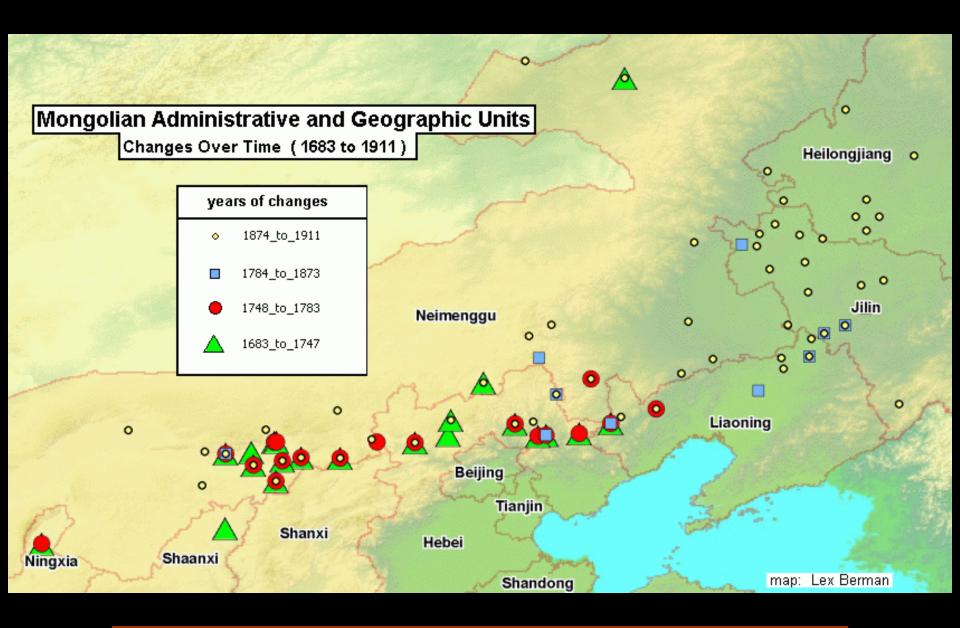
georeferencing temple records, map view



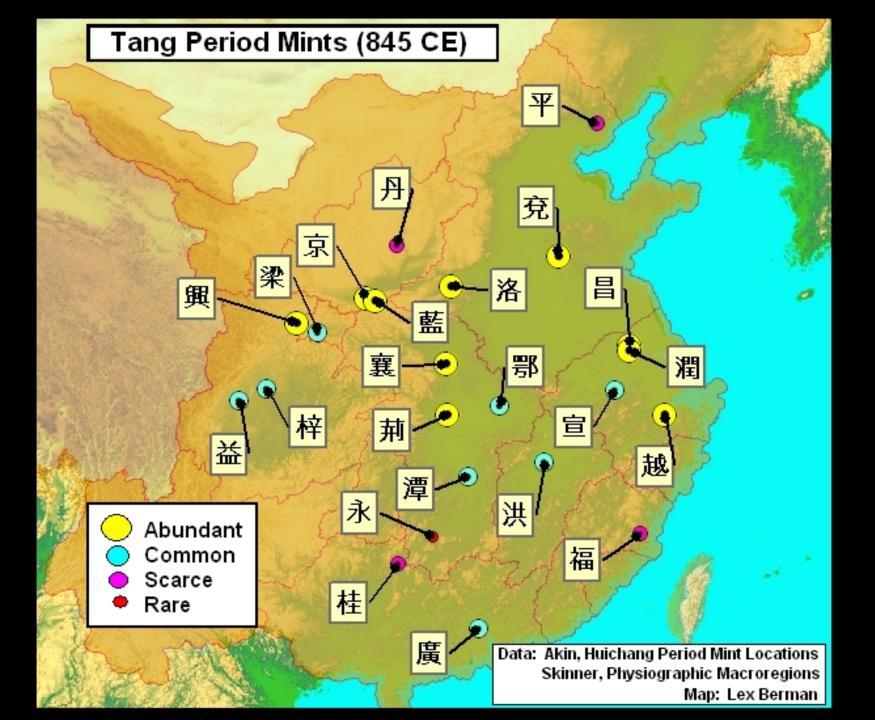




Example: Song tax statistics

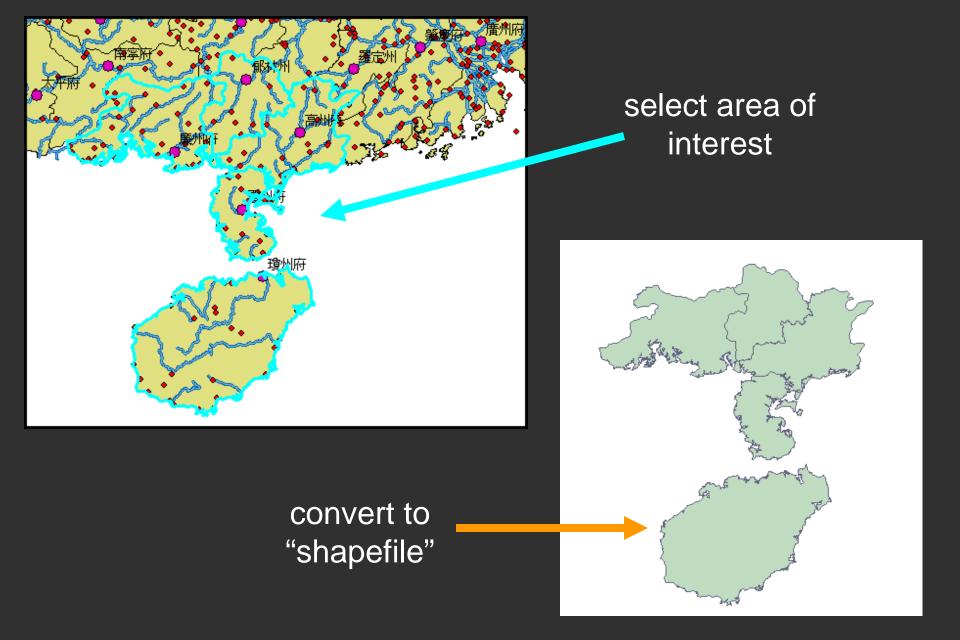


Example: Mongolian Administration over time

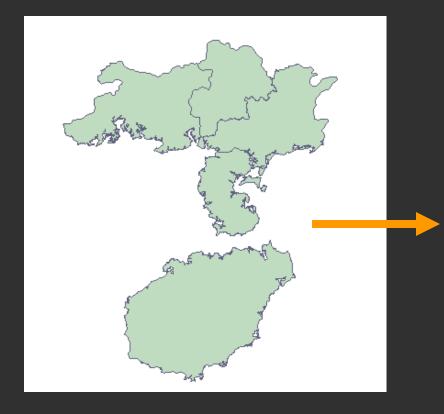




Example: distribution of ceramic kilns



Associating data values with polygon features



export attribute data for focus area to TEXT file

	Pinyin_nam		Prov_py_na	System_id
郁林州	Yulin Zhou	廣西	Guangxi	1923
高州府	Gaozhou Fu		Guangdong	2047
雷州府	Leizhou Fu	廣東	Guangdong	2050
廉州府			Guangdong	2058
瓊州府	Qiongzhou Fu	廣東	Guangdong	2060

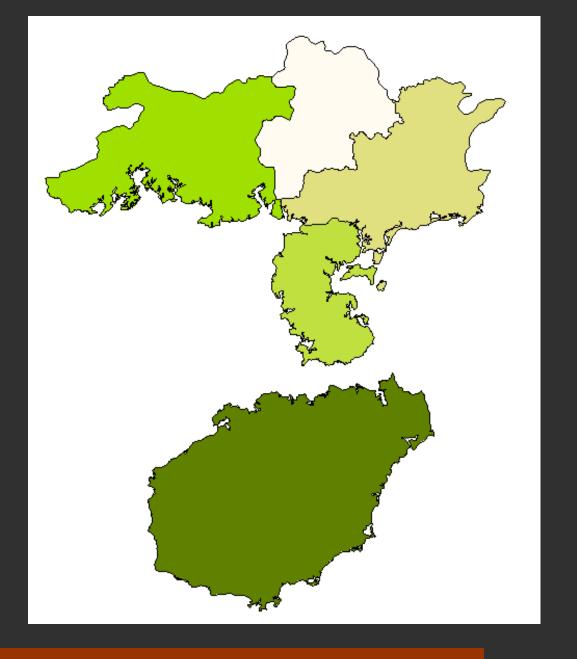
add a new column to the TEXT file

	Pinyin_nam		Prov_py_na	System_id N	ΕW
郁林州 [Yulin Zhou	廣西	Guangxi	1923	
高州府	Gaozhou Fu		Guangdong	2047	
雷州府	Leizhou Fu		Guangdong	2050	
廉州府	Lianzhou Fu		Guangdong	2058	
瓊州府	Qiongzhou Fu	廣東	Guangdong	2060	

enter new values in the new column, then REJOIN to original GIS focus area shapefile

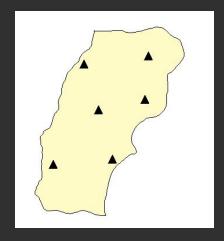
join new data values to GIS attribute table

create chloropleth map based on your data

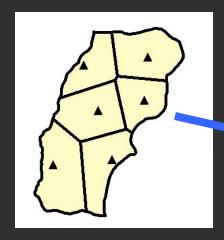


Thematic map based on new data values

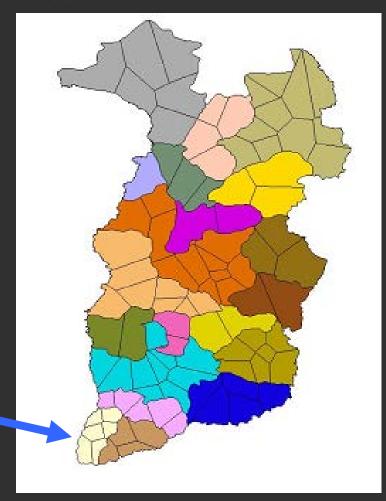
center points + outer boundary



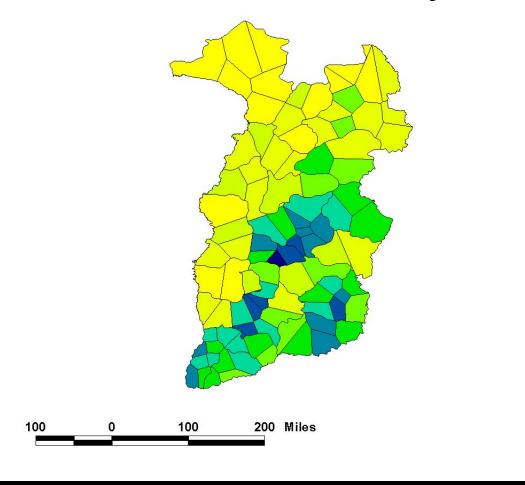
Thiessen Polygons based on points

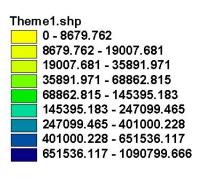


aggregation of Thiessen boundaries



Ding Population (1820) normalized by area

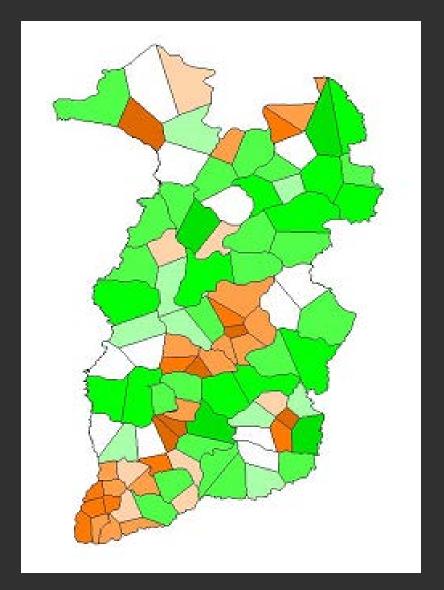


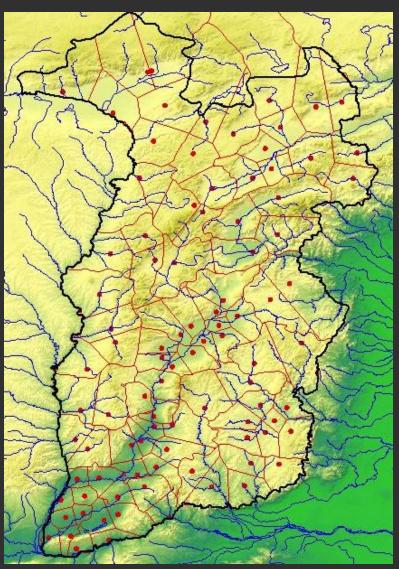




Male Population (1820) normalized by area

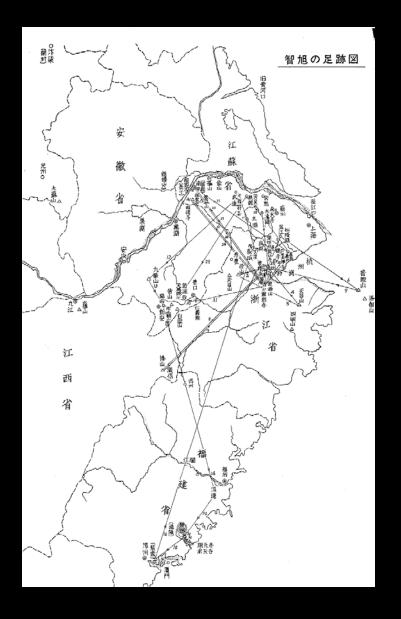
DEM background





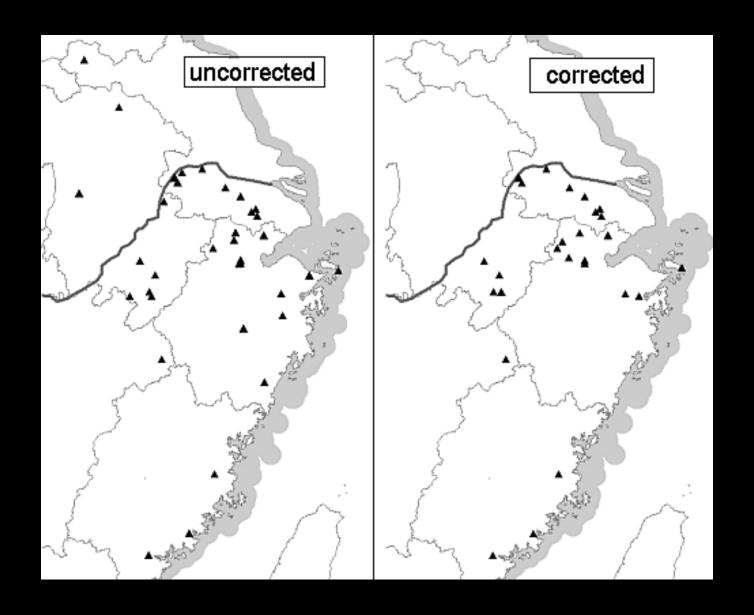
Thiessen polygons compared with natural features

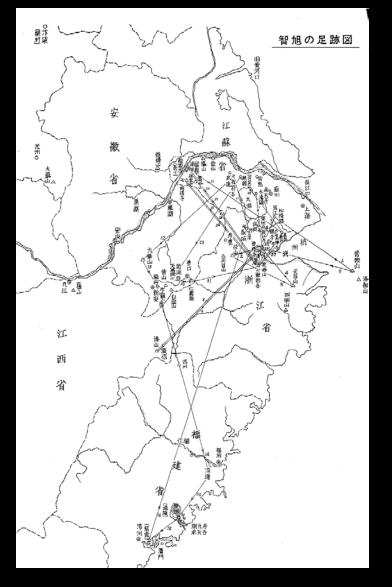


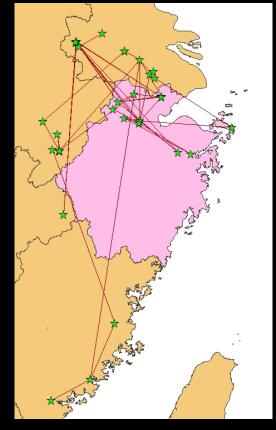


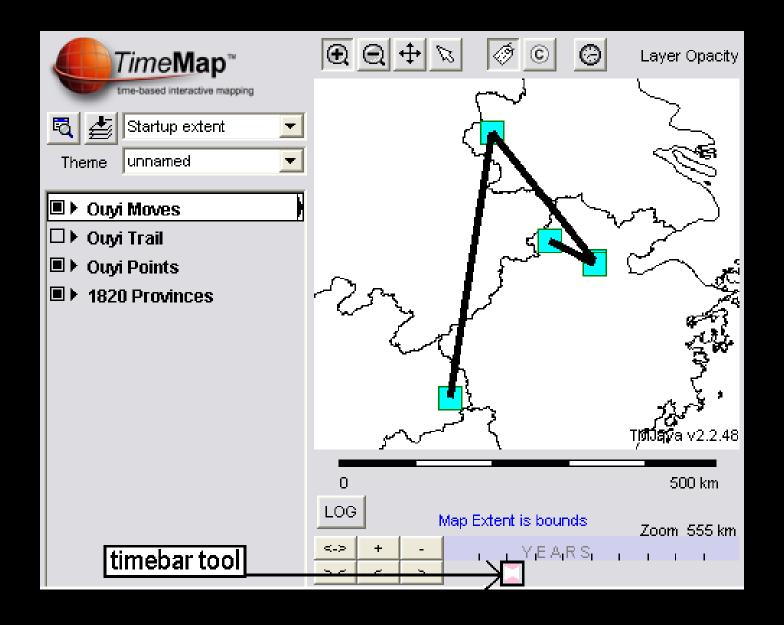
place_id	year	season	sequence	source	type_id	type_description	chrono_events_notes
ouyi_1	1599		1	autobio	1	birth	
ouyi_3	1622	summer	2	ZL.8.2.1-8, autobio	10	Yogacara (唯識論)	
ouyi_3	1622	summer	3	ZL.8.2.1-8, autobio	9	received teachings	
ouyi_2	1622	late fall	4	autobio	4	engaged in meditation	
ouyi_6	1622		5	ZL 8.2.1	25	other	first met Xinyi Dazhen 新
ouyi_6	1623		6	選佛譜序	18	divination game	傳燈[選佛圖]隨喜
ouyi_4	1623	spring	7		25	other	謁幽溪傳燈 - pay respe
ouyi_4	1623	fall	8		4	engaged in meditation	

point_id	name	name_ch	province	xian	geo_src_file	cgis_sys_id	X	У	ouyi_copy_notes
ouyi_1	Mu Duzhen	木灣鎮	Jiangsu	Wuxian	∨4_1911_twn_pts	138990	120.51	31.253	birthplace
ouyi_2	Jingshan; Qi	径山	Zhejiang	Xinchang	NIMA	nma_1922389	119.8	30.25	part of Lin'an Xian 临安
ouyi_3	Yunqi si	雲棲寺	Zhejiang	Hangzhou	∨4_1911_pref_pts	120998	120.168	30.294	part of Qiantang Xian 铥
ouyi_4	Tiantai shan	天台山	Zhejiang	Tiantai	v4_nima_mtns_pts	nima 31788	121.333	29.5	









Animation of points for each event, and paths of movement

