



China Data Institute

**New Technology, New Features,
and New Directions**

**Shuming Bao
China Data Institute**

<http://chinadatacenter.net>
<http://china-data-online.com>

China Data Online

❑ CHINA STATISTICS

- Monthly Statistics
- National Statistics
- Provincial Statistics
- City Statistics
- County Statistics
- Monthly Industrial Data
- Yearly Industrial Data
- Statistics on Map
- Yearbook Database
- **Statistical Datasheets**
- **Statistical Charts**

❑ CENSUS DATA

- Census Databooks
- Census Data Search (2000)
- **Census Maps**
 - **Census 2010**
 - **Census 2000**
 - **Economic Census 2008**
 - **Economic Census 2004**
 - **Basic Unit Census 2001**
 - **Industry Census 1995**

❑ SPATIAL DATA

- China Geo-Explorer I
- China Geo-Explorer II
- US Geo-Explorer
- China Map Library
- US Map Library
- Free Mapping

New Look of China Data Online

← → ↻ https://www.china-data-online.com

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**ALL CHINA
DATA CENTER**

China Data Online 中国数据在线

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CHINA SPATIAL DATA

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CHINA STATISTICS

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CENSUS DATA

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- ▶ [Province 2000](#)
- ▶ [County 2000](#)
- ▶ [Census 2005 \(1%\)](#)
- ▶ [Census Data Search](#)

FREE CHINA MAPS

[2000 Population Census](#)

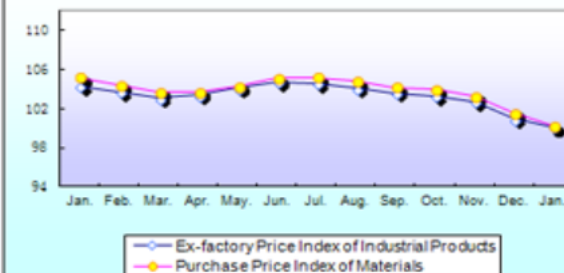
[Pop & Env \(1990-1999\)](#)

[Pop & Env \(2000\)](#)

[Atlas of Industrial Census](#)

Producer Prices for the Industrial Sector for January 2019

Ex-factory Price Index of Industrial Products and Purchase Price Index of Materials 13 Months (Year-on-year)



Latest China Statistical News

[Producer Prices for the Industrial Sector for January 2019 \(2/15/2019\)](#)

[Consumer Prices for January 2019 \(2/15/2019\)](#)

[The Gross Imports and Exports increased in the First Month of 2019 \(2/14/2019\)](#)

[Total Retail Sales of Consumer Goods up by 9.0 percent in the first twelve month... \(1/24/2019\)](#)

New Development: Statistical Datasheets

- It covers statistical tables from all provincial yearbooks and NBS from current to past
- English and Chinese
- Full text search
- Metadata for each table, including citation information and unique ID for direct access

Citation:

NATIONAL BUREAU OF STATISTICS(2016).POPULATION | Region:CHINA | China Data Online

<http://chinadataonline.org/member/datasheet/yearbook/sheetdetail.html?yc=YB00004592&cc=P0203&l=en>

The screenshot shows the search results page for the dataset '1-1 Divisions of Administrative Areas in China (End of 2015)'. The table lists various indicators and their corresponding regions and years.

Datasheet Name	Region	Subject	Year
1-1 Divisions of Administrative Areas in China (End of 2015)	CHINA	GENERAL SURVEY	2016
1-2 Principal Aggregate Indicators on National Economic and Socia...	CHINA	GENERAL SURVEY	2016
1-3 Comparison Indicators on National Economic and Social Develo...	CHINA	GENERAL SURVEY	2016
1-4 Indicators on National Economic and Social Development	CHINA	GENERAL SURVEY	2016
1-5 Number of Legal Entities by Sector	CHINA	GENERAL SURVEY	2016
1-6 Number of Legal Entities by Three Strata of Industry	CHINA	GENERAL SURVEY	2016
1-7 Numbers of Corporate Enterprises by Region and the Status of...	CHINA	GENERAL SURVEY	2016
1-8 Number of Business Entities by Region and Status of Registrat...	CHINA	GENERAL SURVEY	2016
2-1 Population and Its Composition	CHINA	POPULATION	2016
2-2 Birth Rate, Death Rate and Natural Growth Rate of Population	CHINA	POPULATION	2016
2-3 Floating Population	CHINA	POPULATION	2016
2-4 Life Expectancy at Birth	CHINA	POPULATION	2016
2-5 Age Composition and Dependency Ratio of Population	CHINA	POPULATION	2016
2-6 Population at Year-end by Region	CHINA	POPULATION	2016
2-7 Proportion of Urban Population at Year-end by Region	CHINA	POPULATION	2016
2-8 Total Population by Urban and Rural Residence and Birth Rate...	CHINA	POPULATION	2016
2-9 Population by Age and Sex (2015)	CHINA	POPULATION	2016
2-10 Household, Population, Sex Ratio and Household Size by Regio...	CHINA	POPULATION	2016
2-11 Population by Sex, Household Registration Status and Region...	CHINA	POPULATION	2016
2-12 Age Composition and Dependency Ratio of Population by Region...	CHINA	POPULATION	2016
2-13 Population by Sex, Marital Status and Region (2015)	CHINA	POPULATION	2016
2-14 Population Aged 6 and Over by Sex, Educational Attainment an...	CHINA	POPULATION	2016
2-15 Illiterate Population Aged 15 and Over by Sex and Region (20...	CHINA	POPULATION	2016
2-16 Family Households by Size and Region (2015)	CHINA	POPULATION	2016
2-17 Age-specific Fertility Rate of Childbearing Women by Age of...	CHINA	POPULATION	2016

The screenshot shows the detailed view of the dataset '1-1 Divisions of Administrative Areas in China (End of 2015)'. The table provides a breakdown of administrative divisions across different levels.

Provinces, Autonomous Regions and Municipalities	Number of Regions at Prefecture Level	Cities at Prefecture Level	Number of Regions at County Level	Districts under the Jurisdiction of Cities	Cities at County Level	Counties	Auto-nomous Counties	Number of Regions at Townships Level	Towns	Towns	Street Communities
National Total	334	291	2850	921	361	1397	117	39789	20515	11315	7967
Beijing			16	16				331	143	38	150
Tianjin			16	15		1		244	121	6	117
Hebei	11	11	170	42	20	102	6	2251	1067	880	293
Shanxi	11	11	119	23	11	85		1398	564	632	202
Inner Mongolia	12	9	102	22	11	17		1010	496	275	239
Liaoning	14	14	100	57	16	19	8	1532	648	213	671
Jilin	9	8	60	21	20	16	3	901	429	182	290
Henan	13	12	128	65	18	44	1	1234	512	374	348
Shanghai			16	15		1		213	107	2	104
Jiangsu	13	13	97	55	21	21		1281	767	72	442

New Development: Statistical Charts

- It includes statistical tables from Statistical Database
- English and Chinese
- Full text search
- Metadata for each chart, including citation information and unique ID for direct access

Citation:

China Data Online (2017). Yearly Statistics Agriculture GROSS OUTPUT VALUE AND COMPOSITION OF FARMING, FORESTRY, ANIMAL HUSBANDRY AND FISHERY OF HENAN Gross Output Value of Farming, Forestry, Animal/Husbandry and Fishery/Farming . By Province. Country: China. Region: Nation Chart-ID: [hgnd_A080102_000000](#)

The image displays three screenshots of the 'Statistical Charts' website interface. The first screenshot shows the search page with a search bar, filters for 'Place' (Nation, Province, City, County) and 'Level' (Monthly, Yearly), and a list of regions. The second screenshot shows search results for 'All Results (4253)', listing various agricultural and financial statistics. The third screenshot shows a detailed view of a specific chart titled 'Agriculture/GROSS OUTPUT VALUE AND COMPOSITION OF FARMING, FORESTRY, ANIMAL HUSBANDRY AND FISHERY OF HENAN', featuring a line graph showing the output value from 1952 to 2012.

New Development: China Census Maps

- More than 7 million maps for census data
- Full text search (by keyword, year, place)
- Metadata for each map, including citation information and unique map ID for direct access
- Export census data to Excel or CSV files
- Export maps to PDF or graphic files

Citation:

China Data Center & Spatial Data Center of University of Michigan (2017). Census 2000, 2000 population Sampling from Long Table(9.5 percent), Employed population Information of the 2000 population Census data, Employed population by sex and two digits classification of industry, Total Employed Female Population in Polytechnic Services By City of Xinjiang. Statistical Map Library by China Data Center of University of Michigan. Country: China. Region: Province - Xinjiang. Map-ID: 8620002140130665

© 2017 China Data Center & Spatial Data Center, University of Michigan

All Results (358,415*)

Source	Date	Region	Place
Census 2010	2010	China -> Province	Jiangsu
Census 2000	2000	China -> Province	Zhejiang
Economic Census 2008	2008	China -> Province	Fujian
Economic Census 2004	2004	China -> Province	Hubei
Basic Unit Census 2001	2001	China -> Province	Yunnan
Industry Census 1995	1995	China -> Province	Yunnan

Total Employed Population

Source: Census 2000 population Sampling from Long Table(9.5 percent). Employed population information of the 2000 population Census data. Employed population by sex and two digits classification of industry.

Date: 2000 Region: China -> Province Place: Jiangsu

Total Employed Population By City of Jiangsu

City	Total Employed Population
Nanjing	1,142,117
Wuxi	1,042,214
Zhenjiang	1,014,105
Suzhou	974,165
Yangzhou	938,205
Xuzhou	842,189
Wenxian	812,184

New Look of China Geo-Explorer

CGEClient | Not secure | 101.200.77.180:8088/home/only

China Geo-Explorer | 中文 | Login

Administrative Unit | X&Y Location | Time Series | Chart | Theme Map

Single group | Multi-group

① Basemap → ② Region → ③ Index → ④ Export

1.Base Map Selection >

2.Regional Selection

Province Prefecture County Township

China (Province) Back to the Upper Level

beijing
tianjin
liaoning
jilin
heilongjiang

↓ Add All ↑ Remove Clear

hebei
shanxi
neimenggu
jiangsu
anhui

Selected Regions: 19

3.Index Selection >

4.Report Export >

Browse Identify Zoom In Zoom Out Point Circle Rectangle Polygon Clear Province

Background Map

Boundary Layer List

Province Layer
 Prefecture Layer
 County Layer
 Township Layer

CGE_Report_20190226-1.pdf - Adobe Acrobat Pro

File Edit View Window Help

Create

1 / 2 45% Tools Sign Comment

All China Marketing Research

Demographic Summary Report (2000)

Date: 27/02/2019
Selection: (19 selected) hebei, shanxi, neimenggu, jiangsu, anhui, jiangxi, shandong, henan, hubei, hunan, guangxi, chongqing, sichuan, guizhou, yunnan, shaanxi, gansu, qinghai, ningxia

Population Summary

	Count	%	Ratio or Average
Total Households	253,100,254	100.0 %	Average Size: Family Households 3
Family Households	247,725,654	97.9 %	Sex Ratio: Family Households 105.0
Collective Households	5,370,570	2.1 %	Sex Ratio: Collective Households 187.0
Population Age 0 to 14	215,100,831	23.8 %	Dependency Ratio of Children 35.0
Population Age 65 or more	64,355,651	7.1 %	Dependency Ratio of the Aged 9.0
Total Population	904,033,905	100.0 %	Total Dependency Ratio 45.0

Family Households with Presence of Children

	Count	%	Count	%	
Children 0-4 years old	47,271,535	19.1 %	Children 10-14 years old	73,055,741	29.5 %
Children 5-9 years old	58,086,897	23.4 %	Children 15-19 years old	49,960,508	20.2 %

Population by HH Type

	Count	%	Count	%	Count	%
Total Population	899,654,383	100.0 %	463,944,613	100.0 %	434,709,740	100.0 %
Agricultural Population	711,015,974	79.1 %	363,380,537	78.3 %	347,635,437	80.0 %

China Geo-Explorer: Selection by Location

The screenshot displays the China Geo-Explorer web application interface. The browser address bar shows the URL `101.200.77.180:8088/location`. The application has a navigation menu with tabs for Administrative Unit, X&Y Location (selected), Time Series, Chart, and Theme Map. The main interface is divided into a left sidebar, a central map, and a right data panel.

1. Location Selection

Custom Location Upload Administrative Location

Name: Latitude: Longitude:

*You can select location on the map.

Added Location

ID	Name	Latitude	Longitude	Operation	
<input type="checkbox"/>	1	coord1	34.15281	113.75231	<input type="button" value="edit"/> <input type="button" value="delete"/>

2. Spatial Range Selection

3. Index Selection

4. Report Export

Household Summary

	coord1(10mile)		coord1(30mile)		coord1(60mile)	
	Count	Percent	Count	Percent	Count	Percent
Total Households	853,555	100.0 %	6,416,553	100.0 %	20,109,444	100.0 %
Family Households	841,719	98.6 %	6,262,524	97.6 %	19,808,497	98.5 %
Collective Households	11,835	1.4 %	154,028	2.4 %	300,946	1.5 %
Total Population	3,135,866	100.0 %	23,753,248	100.0 %	75,165,469	100.0 %
Agricultural Population	2,529,801	80.7 %	18,607,643	78.3 %	62,367,082	83.0 %
Non-Agricultural Population	606,065	19.3 %	5,145,604	21.7 %	12,798,387	17.0 %
Population in Family Households	3,072,656	97.6 %	22,954,768	96.2 %	73,739,334	97.7 %
Population in Collective Households	74,744	2.4 %	894,885	3.8 %	1,740,677	2.3 %
Average Size: Family Households	3		3		3	
Sex Ratio: Family Households	106		106		106	
Sex Ratio: Collective Households	373		392		465	

Literacy

	coord1(10mile)		coord1(30mile)		coord1(60mile)	
	Count	Percent	Count	Percent	Count	Percent
Total Population 15 and Over	2,385,255	100.0 %	18,027,540	100.0 %	56,076,357	100.0 %
Illiterate Population - Total	186,448	7.8 %	1,440,955	8.0 %	4,572,379	8.2 %
Illiterate Population - Males	47,006	15.5 %	392,631	15.7 %	1,231,347	16.1 %
Illiterate Population - Females	139,442	11.8 %	1,048,324	11.8 %	3,341,031	12.1 %

China Geo-Explorer: Trend Analysis

CGEClient | University of Michigan - Calendar | Not secure | 101.200.77.180:8088/chart/economics

China Geo-Explorer

Administrative Unit | X&Y Location | Time Series | **Chart** | Theme Map

Yearly Statistics | **Economic Census**

Statistical Chart | [Reset](#)

Nation Statistics

Index

URBAN PUBLIC TRAN... [Settings](#)

- URBAN PUBLIC TRANSPORT
 - Passenger Transport by Public Electric Vehicles
 - Rail Traffic
 - Taxi passenger
 - City ferry
 - Other urban public transport

Province Statistics >

City Statistics >

Background Map

Boundary Layer List

- Province Layer
- Prefecture Layer
- County Layer
- Township Layer

Start Date: 1949 | End Date: 2004 | [Export](#)

Statistics

Housing construction

Average: 78.05382427951723
Variance: 15.269706631839403
Standard Deviation: 3.9076471989983186

Railways, roads, tunnels and bridges construction

Average: 9.423924668286872

Start Date: 1949 | End Date: 2004 | [Export](#)

Statistics

Passenger Transport by Public Electric Vehicles

Average: 54.70105335174952
Variance: 273.70692307153223
Standard Deviation: 16.5440902763353

Rail Traffic

Average: 1.3568719509093332

temp_report (4).xls | temp_report (6).csv | CGE_Report_20190....pdf | [Show all](#)

China Geo-Explorer: Theme Map

The screenshot displays the 'China Geo-Explorer' web application in a browser window. The browser's address bar shows the URL '101.200.77.180:8088/themeMap'. The application's navigation menu includes 'Administrative Unit', 'X&Y Location', 'Time Series', 'Chart', and 'Theme Map' (which is currently selected). On the left side, there is a sidebar with a search tree for 'Census 2000' data, including categories like 'General Information' and 'Urban and Rural Population'. The main area features a map of China with a color-coded theme representing population density. A legend in the bottom right corner provides the numerical ranges for each color: 1917815 ~ 3263490 (lightest yellow), 3263490 ~ 13491593 (yellow), 13491593 ~ 21039247 (orange), 21039247 ~ 31504242 (dark orange), 31504242 ~ 43233559 (brown), and 43233559 ~ 69851422 (darkest brown). The interface also includes a top toolbar with various map interaction tools like 'Browse', 'Identify', 'Zoom In', 'Zoom Out', and 'Point', and a right-side panel for 'Background Map' and 'Boundary Layer List'.

National Sciences Foundation: Robust and Reliable Science

- **Reproducible**
- **Replicable**
- **Generalizable**

As defined in the NSF/SBE Advisory Committee 2015 report, [Social, Behavioral, and Economic Sciences Perspectives on Robust and Reliable Science](#), “robust and reliable” science refers to research that is **reproducible**, **replicable**, and **generalizable**.

Reproducibility refers to the ability of a researcher to duplicate the results of a prior study using the same materials and procedures used by the original investigator.

Replicability refers to the ability of a researcher to duplicate the results of a prior study if the same procedures are followed but new data are collected.

Generalizability refers to whether the results of a study apply in other contexts or populations that differ from the originals. Robust and reliable research is the foundation of all scientific development and progress, which depends critically on the ability of investigators to build on prior work.

An Integration of Data, Tools and Data Case Studies Based on the Cloud Platform



China Data Lab

A Partner Network for China and Global Studies

China Data Lab: Features

- Users can have access to the full source data on the cloud
- Users can use those powerful tools for data processing and analysis on the cloud without downloading the data
- Users can learn from the workflow based data case studies
- Users can download the analytical results and reports
- Users can replicate, reproduce and expand those case studies on the cloud

A Partner Network for China and Global Studies

The image shows a screenshot of a web application interface, likely a cloud workspace, with a diagram overlaid. The browser window displays the URL <https://app.shareto.me/app/user/workspaces>. The interface includes a search bar, a navigation menu, and a list of applications: Word 2010, Excel 2010, PPT 2010, GeoDa, AlterVX, Jupyter, 桌面 (Desktop), ArcGIS, and Google Chrome. A red oval highlights a diagram consisting of four blue ovals arranged in a 2x2 grid, representing the partner network components: Data Providers, Centers & Labs, Tool Providers, and Faculty & Students.

应用列表

Word 2010 Excel 2010 PPT 2010 GeoDa AlterVX Jupyter 桌面 ArcGIS Google Chr... 添加

Data Providers **Centers & Labs**

Tool Providers **Faculty & Students**

Type here to search

8:56 PM 10/11/2018

Cloud Based Data Analysis

The image illustrates a cloud-based data analysis environment through several overlapping screenshots:

- Top Left:** A web portal interface showing a list of applications available for use, including Word 2010, Excel 2010, PPT 2010, GeoDa, AlterYX, Jupyter, 桌面 (Desktop), ArcGIS, and Google Chrome.
- Top Right:** A map application displaying a purple map with various geographical labels such as 'Beilin' and 'Wuwei'.
- Middle Left:** A file browser interface showing a list of folders and files, including 'Kunru_Final_Reports', '我的调色板', 'Corel', '金融案例SAS程序1807', 'Untitled.ipynb', 'Wuhan-20180730.pptx', and '工作簿1.xlsx'.
- Middle Center:** A Microsoft Excel spreadsheet showing a grid with columns labeled 'A' and 'B'.
- Middle Right:** A Jupyter Notebook interface with a code cell containing the text 'In []: hello'.
- Bottom Right:** A complex data flow diagram (likely Alteryx Designer) showing various data processing nodes connected in a workflow.

Demo: A Workflow Based Data Case Study

Religious Diversity and Regional Development

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 China Economic Review
Volume 46, December 2017, Pages 1-9



Religious diversity and regional development in China

Zheng Ying ^{a, b}, Shibao Liu ^c, Shuming Bao ^{d, e, f, g, h}, Jianbo Zhou ^a

Show more

<https://doi.org/10.1016/j.chieco.2017.08.003> Get rights and content

Highlights

- Identify possible impacts of religious diversity on regional development at province level under the same political regime
- Apply fragmentation and polarization indices as measures of religious diversity
- Solve the endogeneity issue with the fixed-effect two-stage regression

Abstract

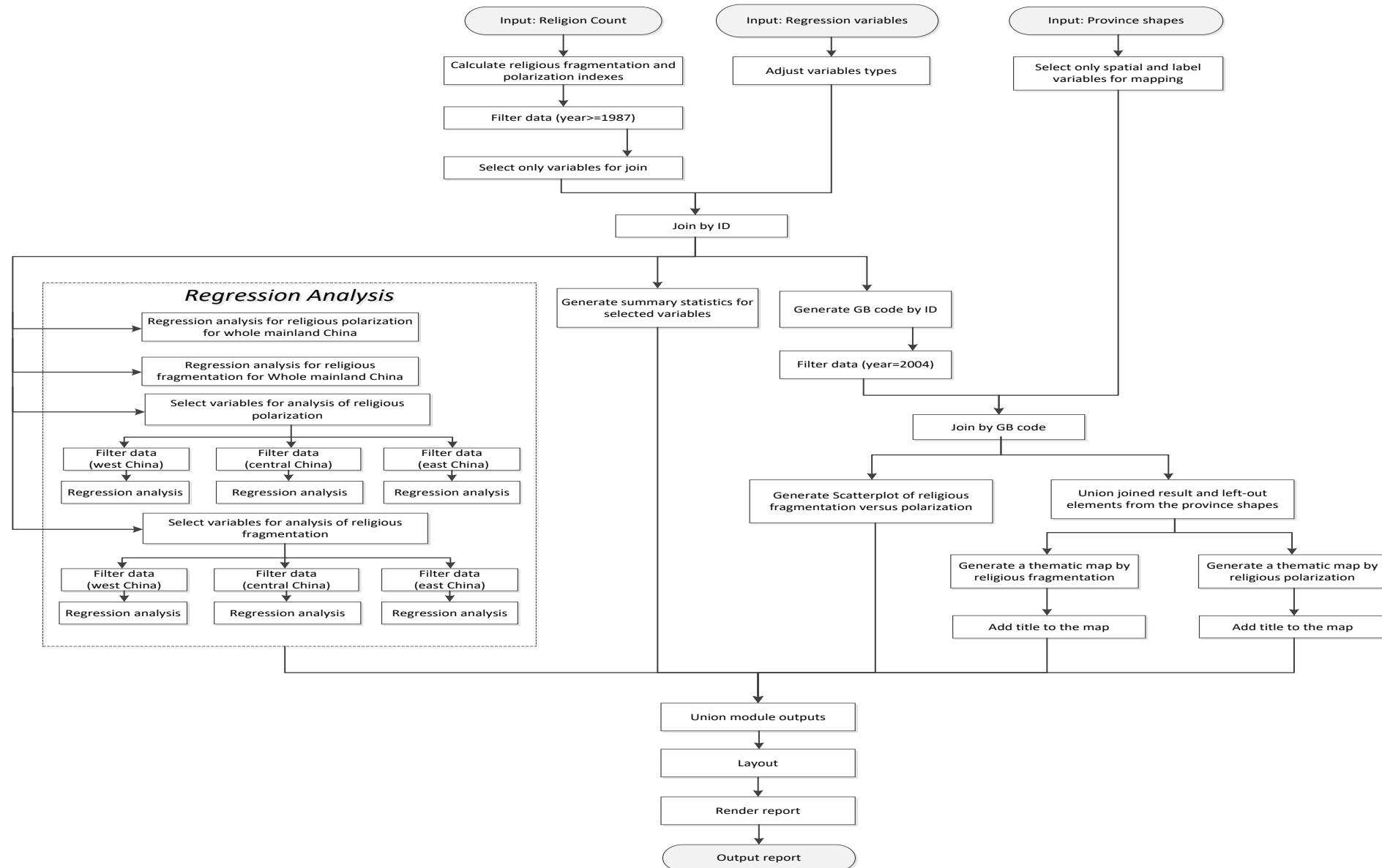
This paper investigates possible impacts of religious diversity on regional development in China. We developed the religious fragmentation and polarization indices as measurements for the religious diversity by using the religious site data from the 2004 economic Census data in China. The results from the panel data regressions within national coverage suggest that the religious diversity has positive and significant impacts on regional development in general. The results from the panel data regressions within regional coverage also suggest that religious fragmentation has a positive and significant association with the economic development in the eastern region of China while religious polarization has a positive and significant association with the economic development in the central and western regions of China.

Aim: Test the impacts of religious diversity on regional development in China

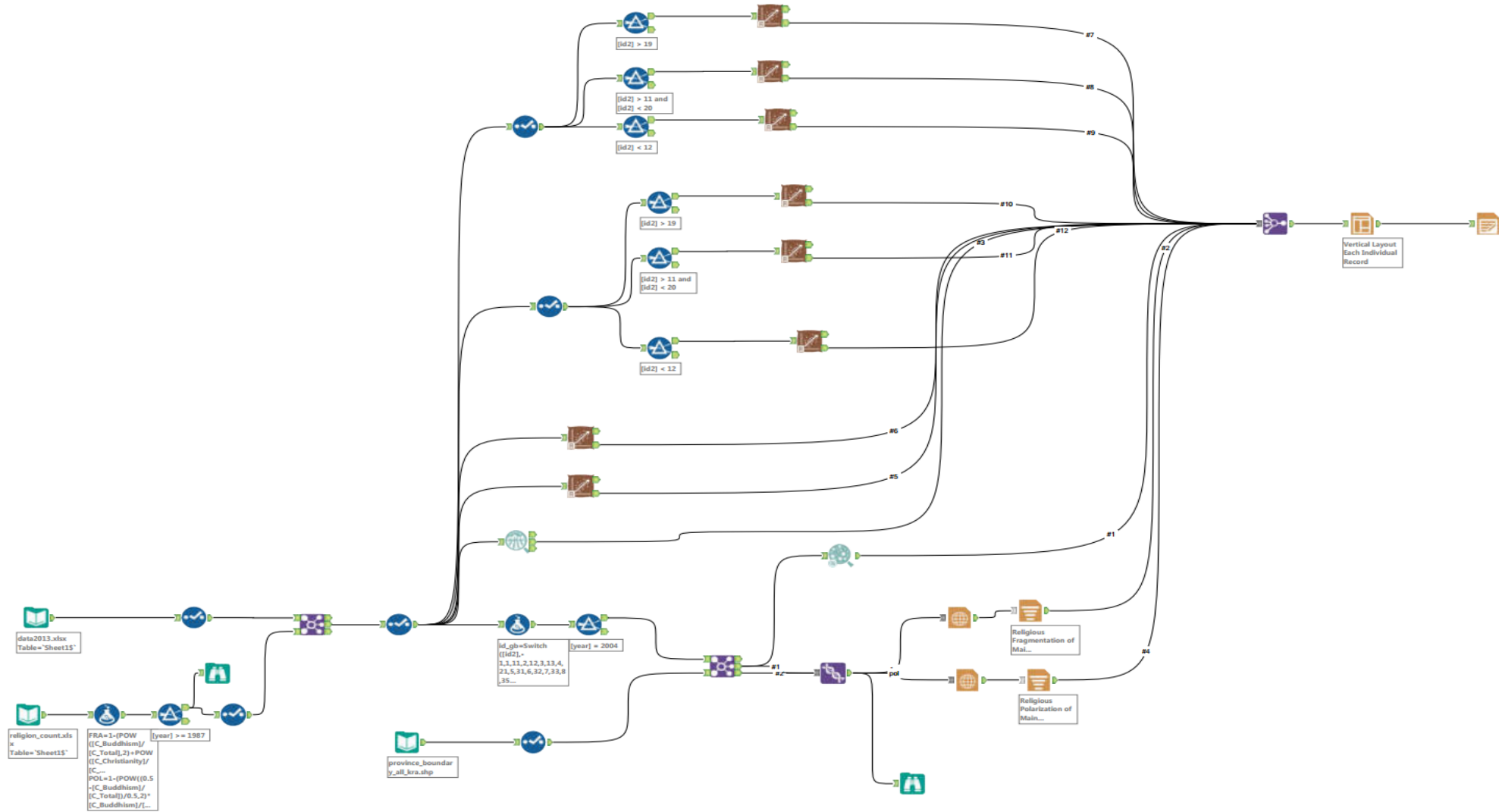
Findings from previous studies: Religious diversity may have positive or negative impacts on economic development

Background of this study: Test the impacts of religious diversity on regional development under the same political regime at sub-national level (province) in a peaceful environment

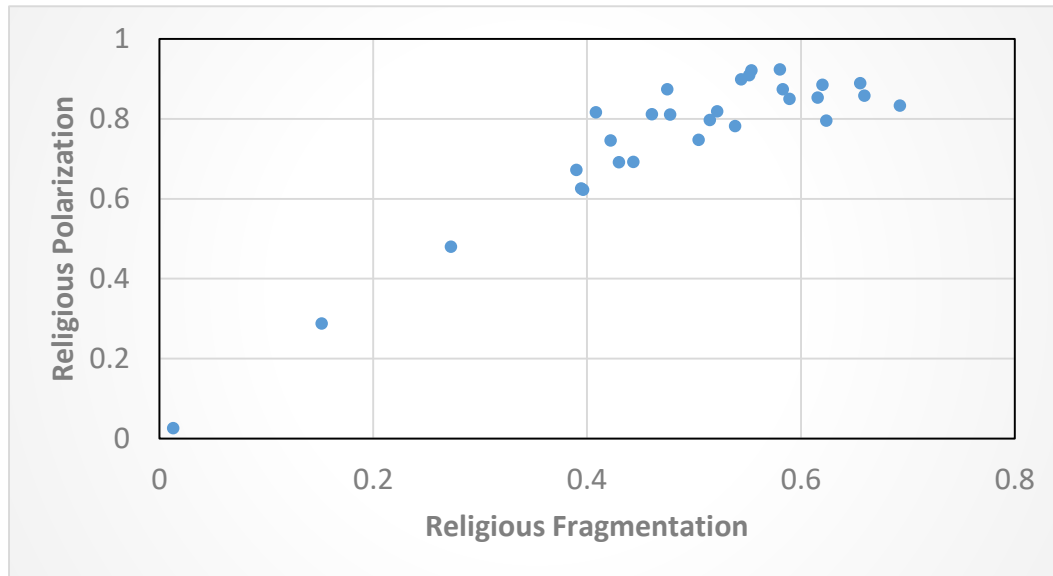
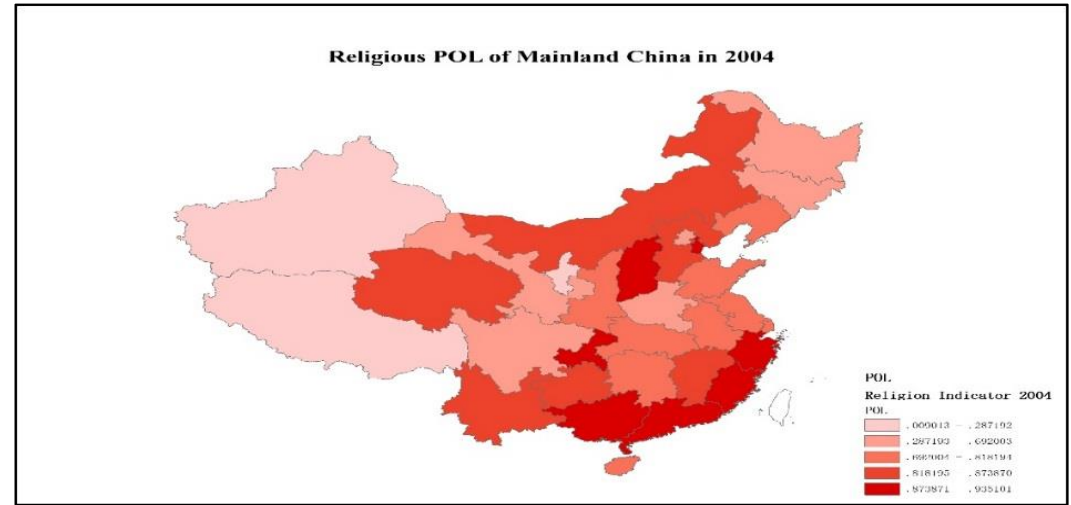
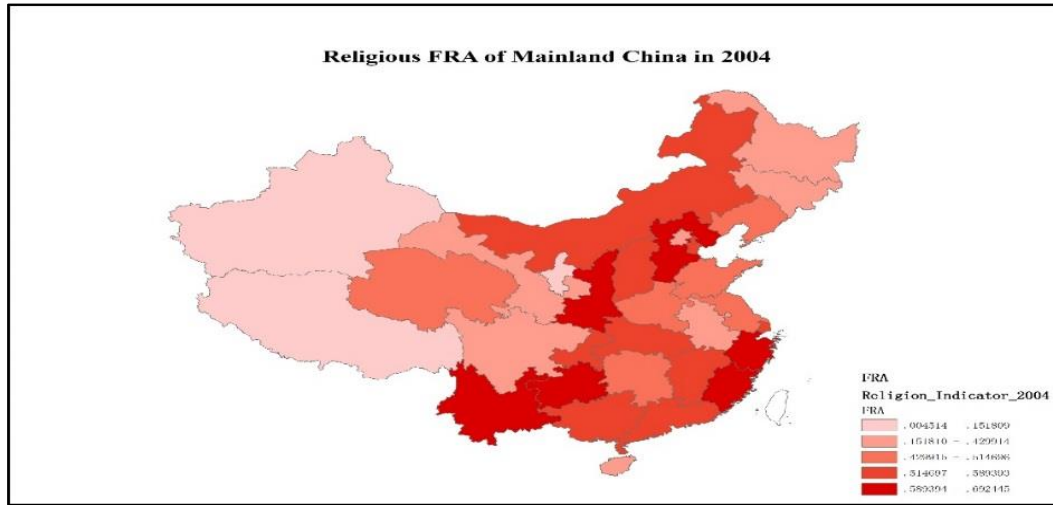
The Flow Chart for Religious Analysis



The Workflow



Data Analysis



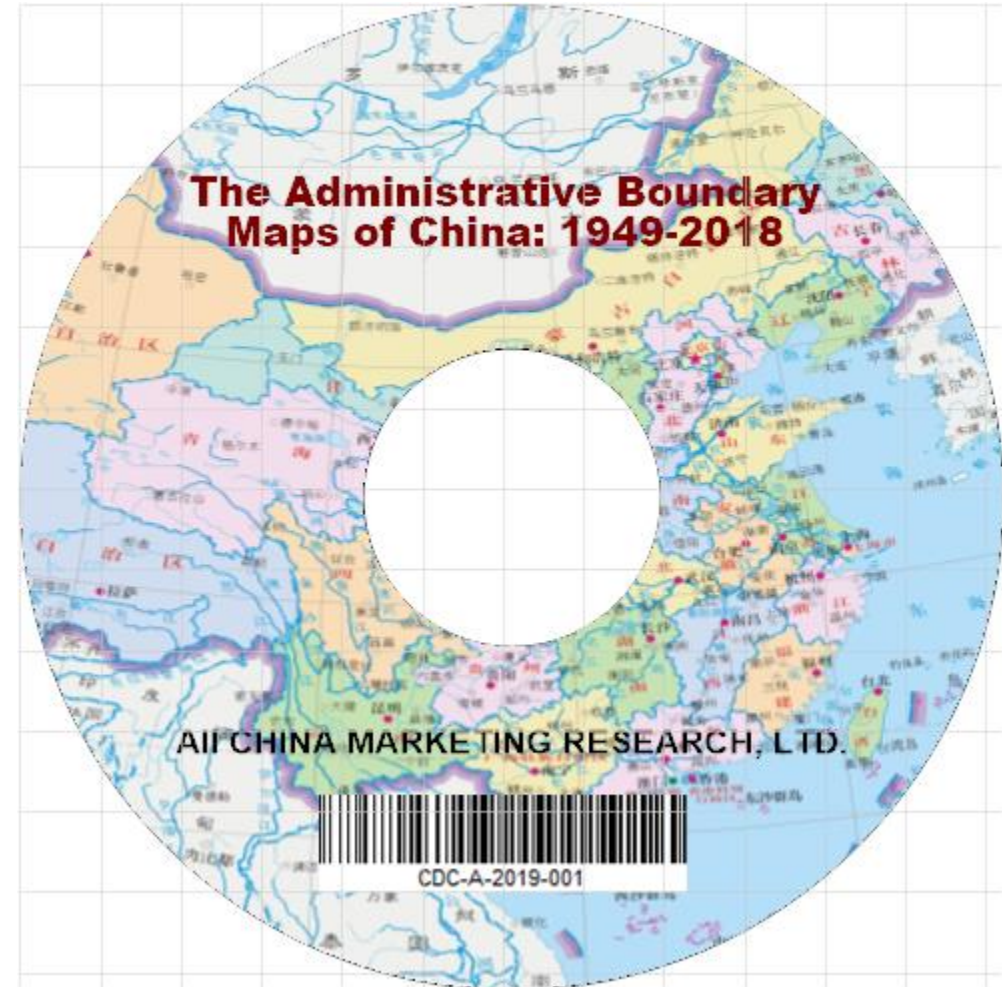
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Whole	East	Central	West	Whole	East	Central	West
frag	0.482*** (4.31)	0.550*** (3.89)	0.0433 (0.44)	-0.243 (-0.88)				
(n+g+δ)	-0.00281	-0.00185	-0.0169*	- 0.0484** *	-0.00286	-0.00271	-0.0178*	- 0.0458** *
	(-0.54)	(-0.36)	(-1.71)	(-3.58)	(-0.54)	(-0.51)	(-1.81)	(-3.37)
lnedu	-0.415*** (-2.91)	0.221 (0.89)	0.213 (1.08)	-0.565*** (-3.63)	-0.402*** (-2.77)	0.202 (0.77)	0.203 (1.03)	-0.580*** (-3.77)
lnicap	0.0198 (0.67)	0.227*** (5.30)	0.0638** (1.99)	0.0990** (2.22)	0.0275 (0.91)	0.235*** (5.21)	0.0734** (2.27)	0.0919** (2.08)
lnpub	-0.119*** (-2.84)	-0.281*** (-5.49)	0.0840 (1.53)	-0.128** (-2.00)	-0.131*** (-3.08)	-0.308*** (-5.81)	0.0880 (1.60)	-0.108* (-1.69)
pol					0.141 (1.52)	0.165 (1.29)	-0.0408 (-0.50)	0.417* (1.69)
_cons	6.967*** (24.91)	6.089*** (13.18)	6.469*** (15.20)	7.690*** (23.02)	7.067*** (24.19)	6.233*** (12.04)	6.570*** (15.32)	7.333*** (20.27)
N	504	180	144	180	504	180	144	180
R ²	0.972	0.987	0.994	0.982	0.971	0.986	0.994	0.982
A-R ²	0.969	0.984	0.992	0.978	0.968	0.983	0.992	0.978
F Sta.	727.2	503.6	794.4	363.0	701.5	461.6	794.8	368.3

List of Documents for Data Case Study

Documents	Description	File
Case study report	Word or PDF file	Religion_study.docx
Case study presentation	Presentation file	Religion_case.pptx
Data	Religious data table in Excel	Data_religion.xlsx
	Statistical table in Excel	Data_statistics.xlsx
	Province map in Shape file	Province_boundary.shp
Alteryx module	Alteryx workflow	Religion_case.yxmd
Technical report	Description of Alteryx workflow	Tech_report_religion.docx
Technical output	Output file generated by Alteryx workflow module	Output_religion.pdf

New Release: **The Administrative Boundary Maps of China of 2018**

- Province boundary
- Prefecture city boundary
- County boundary



Conference Showcases:

The Association for Asia Studies (AAS) Annual Conference

Denver, CO, March 21-24, 2019

Association of American Geographers (AAG) Annual Conference

Washington, DC, April 4-6, 2019

Association of College Research Libraries (ACRL) Annual Conference

Cleveland, OH, April 10-12, 2019

Special Library Association (SLR) Annual Conference

Cleveland, OH, June 16-19, 2019

Questions?

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