Appendices for "Legitimacy and Hegemony in Late Imperial China"

1 Additional Information on Tribute Exchanges Data

1.1 Summary Information

Table A1: Total Tribute Exchanges by Region, 1368–1895

Region	Number of exchanges
East Asia	1444
Southeast Asia	940
Indian Ocean	146
North Asia	2549
Central Asia	863
Southwest	2372
Unidentified	237
Total	8,551

Table A2: Top Tribute Entities, Number of Exchanges (1368–1895)

Ming (1368–1644)		*Qing (1644–1911)*	
Entity	**Exchanges**	**Entity**	**Exchanges**
Korea 高麗/朝鮮	666	Korea 朝鮮	310
Taining Garrison 泰寧衛	324	Ryukyu 琉球	129
U-Tsang 烏思藏	289	Annam 安南/越南	96
Ryukyu 琉球	280	Siam 暹羅	72
Jianzhou Garrison 建州衛	271	Kirghiz 哈薩克	37
Sichuan Chieftains 四川土官	271	Hami 哈密	26
Hami 哈密	251	Laos 南掌	20
Haixi Nurchens 海西女直	250	Xiyang 西洋	15
Duoyan Foreign Monks 朵顏衛	231	Myanmar 緬甸	11
Jianzhou Nurchens 建州女直	219	Sulu 蘇祿	11
Sichuan Foreign Monks 四川番僧人	209	Urianghai 烏梁海	9
Yunnan Chieftains 雲南土官	209	Turpan 吐魯番	7
Shaanxi Foreign Monks 陝西番僧人	200	Holland 荷蘭	6
Yeren Nurchens 野人女直	195	Aru 阿魯	3
Guangxi Chieftains 廣西土官	192	Japan 日本	3
North Yi 迤北	151	U-Tsang 烏思藏	3
Annam 安南	146	Yuan Foreign Monks 遠番僧人	3
Huguang Chieftains 湖廣土官	146	Guangnan 廣南	2
Wuzhe Garrison 兀者衛	140	Jinghai 景海	2
Fuyu Garrison 福餘衛	137	Ligor 六坤	2

Figure A1: Number of Eligible Tribute Entities per Year

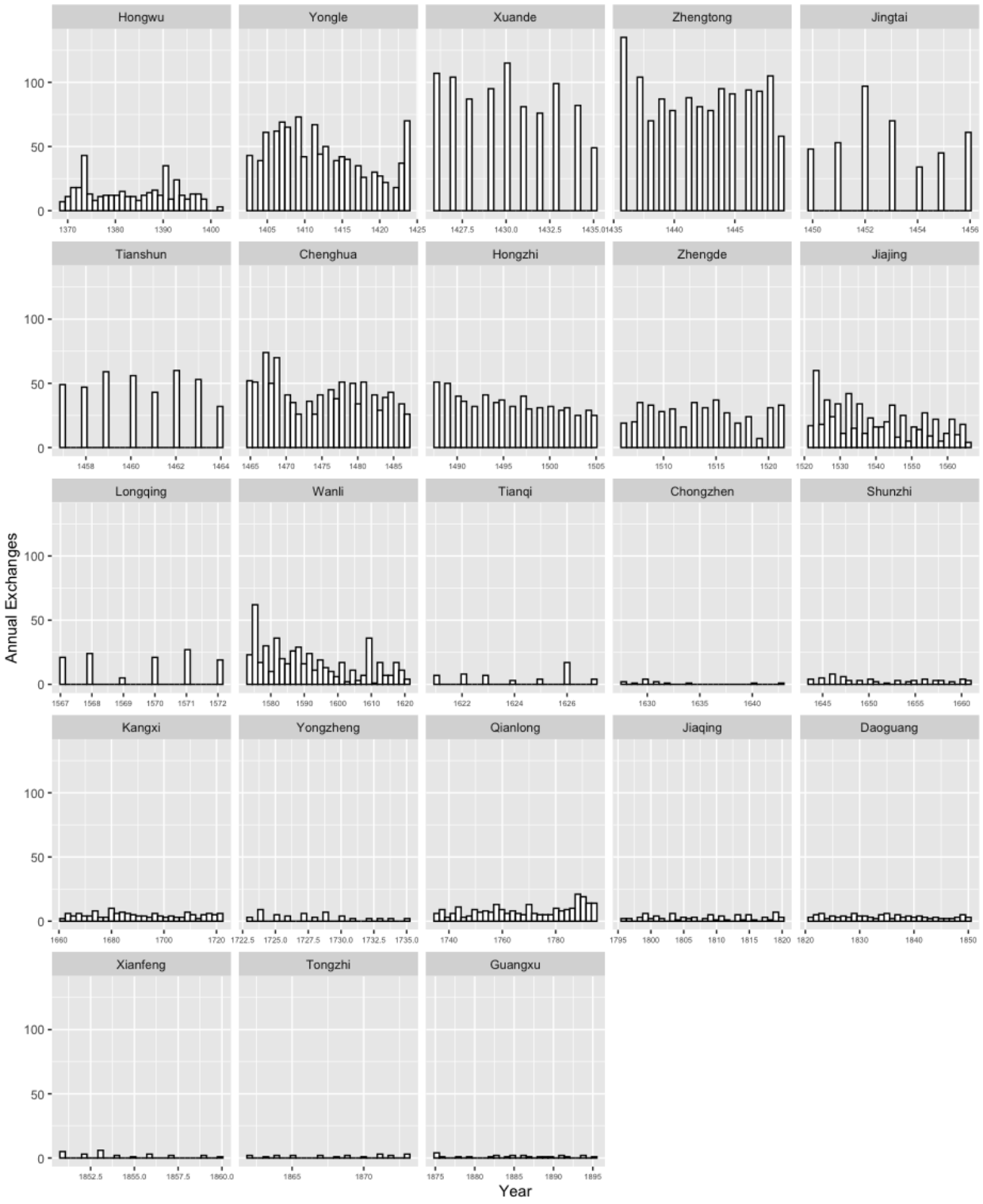
Table A3: Tribute Entities Included in Dataset by Region

East Asia	
	Japan 日本, Korea 高麗/朝鮮, Ryukyu 琉球
Southeast Asia	
Eastern Islands	Borneo 婆羅, Brunei 渤泥, Kumala 古麻剌, Luzon 呂宋, Sulu 蘇祿
Java	Baihua 百花, Java 爪哇, Java 葛剌, Qianlida 千里, Riluo 日落, Tanpa 淡巴
Malay	Jilandan (East Coast Malay) 急蘭丹, Malacca 滿剌加, Pahang 彭亨
Mainland	Annam 安南, Annam 越南, Cambodia 真臘, Champa 占城, Laos 南掌, Myanmar Pacification Commision 緬甸宣慰使司, Myanmar 緬甸, Siam 暹羅
Sumatra	Aru 阿魯, Dieli 碟里, Lanbang 覽邦, Northern Sumatra 南巫里, Northern Sumatra 喃渤利, Samudra 蘇門答剌, Srivijaya 三佛齊
Other	Ligor 六坤
Indian Ocean	
Arabian Peninsula	Aden 阿丹, Djofar 祖法兒, Lhasa 剌撒
East Africa	Barawa 不剌哇, Melinde 麻林, Mogadishu 木骨都束
East India	Bengal 榜葛剌, Xiyang 西洋
Gujarat	Chilani 奇剌泥
Indian Ocean	Ceylon 錫蘭山, Maldives 溜山
Malabar	Cail 加異勒, Calicut 古里, Cochin 柯枝, Coyampadi 甘巴里, Quilon 小葛蘭
West Asia	Hulumosi (Persian Gulf) 忽魯謨斯
Unknown	Cananore 沙里灣泥

North Asia	
Manchuria	Duoerbi River 朵必河, Geji River Garrison 哥吉河衛, Haermi Garrison 哈而衛, Haixi Nurchens 海西女直, Hushimu Garrison 忽失木衛, Jianzhou Garrison 建州衛, Jianzhou Left Guard 建州左衛, Jianzhou Nurchens 建州女直, Jianzhou Three Garrisons 建州三衛, Kaolangwu Garrison 考郎兀衛, Muhula River Garrison 木忽剌河衛, Mulan River Garrison 木蘭河衛, Nalaji River Garrison 納剌吉河衛, Namu Garrison 納木衛, Suping River Garrison 速平江衛, Tamasu Garrison 塔麻速衛, Tonglan Mountain Garrison 童山衛, Tun River Garrison 屯河衛, Wuyewu Garrison 兀野吾衛, Yeren Nurchens 野人女直, Yierguli Garrison 亦兒古里衛, Yimi River Garrison 亦迷河衛, Youcheng Garrison 右城衛, Zhetieli Mountain Garrison 者帖列山衛, Zhudong River Garrison 渚冬河衛
Mongolia	Oirat 瓦剌, Urianghai 烏梁海, Wula River Garrison 兀剌河衛
Northeast Asia	Alun Garrison 阿倫衛, Chengtaowen Garrison 成討衛, Feihe Garrison 肥河衛, Huluai Garrison 忽魯愛衛, North Yi 迤北, Ouhan River Garrison 嘔罕河衛, Shuangcheng Garrison 城衛, Suwen River Garrison 速温河衛, Wuli Garrison 兀力衛, Wulu Han River Garrison 兀魯罕河衛, Wuzhe Front Garrison 兀者前衛, Wuzhe Garrison 兀者衛, Wuzhe Right Garrison 兀者右衛
Uriangha	Duoyan Foreign Monks 朵衛, Fuyu Garrison 福餘衛, Taining Garrison 泰寧衛, Wuliangha Three Garrisons (East Inner Mongolia) 兀良哈三衛
Central Asia	
East Turkestan	Alani 阿速, Bashibalik 別失八里, Chalish 察力失, Ilibalik 亦力把力, Karakhodjo 火州, Kashgar 哈失哈兒, Liuchen 柳陳, Turpan 吐魯番
Hami	Anding Garrison 安定衛, Chinjinmenggu (Yumen, Gansu) 赤斤蒙古, Hami 哈密, Handong Left Garrison 罕東左衛, Handong 罕東, Khotan 于闐, Khotan 阿端, Quxian 曲先
Iran/West Asia	Arabia 天方, Persia 亦思弗罕, Persia 失剌思, Rum 魯迷, Tabriz 帖必力思
West Turkestan	Badansha 把丹沙, Bulahan Garrison 卜剌罕衛, Hadilan 哈的蘭, Heilou 黑, Herat 哈烈, Keshimier 克失迷兒, Khodjend 火占/沙六海牙/火壇, Sairam 掃蘭, West Balkh Bukhara 俺都淮
Unknown	Hasan 哈三, Kirghiz/Kazakh 哈薩克, Kuncheng (Northeast Afghanistan) 坤城, Pala 怕剌, Shehei 捨黑, Yasi 牙思
Southwest	
Aboriginal Offices	Guangdong Chieftains 廣東土官, Guangdong Foreign Monks 廣東番僧人, Guangnan 廣南, Guangxi Chieftains 廣西土官, Guizhou Chieftains 貴州土官, Guizhou other 貴州宣慰司安疆, Guizhou other 貴州金筑安撫司, Huguang Chieftains 湖廣土官, Shaanxi Chieftains 陝西土官, Shaanxi Foreign Monks 陝西番僧人, Sichuan Chieftains 四川土官, Sichuan Foreign Monks 四川番僧人, Xifan 西番, Yuan Foreign Monks 遠番僧人, Yunnan Chieftains 雲南土官
Amdo, Kham, and Western Sichuan	Biesisai 思寨, Changhexiyutongningyuan 長河西魚通寧遠, Dasiman Chief's Office 達思蠻長官司, Directly Controlled Expedition Commissioner's Office 直管招討司, Dongbuhanhu 董卜韓胡, Duogansi Pacification Commission 朵甘思宣慰司, Guangxi Chieftains (Changhexiyutongning) 長河西魚通寧西土官, Jiakewasi 加渴瓦寺, Jinchuansi Foreign Monks 金川寺番僧, Taomin Foreign Monks 洮岷番僧, Zagu Foreign Monks 雜谷番僧人, Zagu Pacification Office 雜谷按撫司, Zaodao Chief's Office 雜道長官司
Tibet	Chanhuawang 闡化王, Dabao Prince 大寶法王, Dacheng Prince 大乘法王, Fujiaowang 輔教王, Hujiaowang 護教王, U-Tsang 烏思藏, Zanshanwang 贊善王

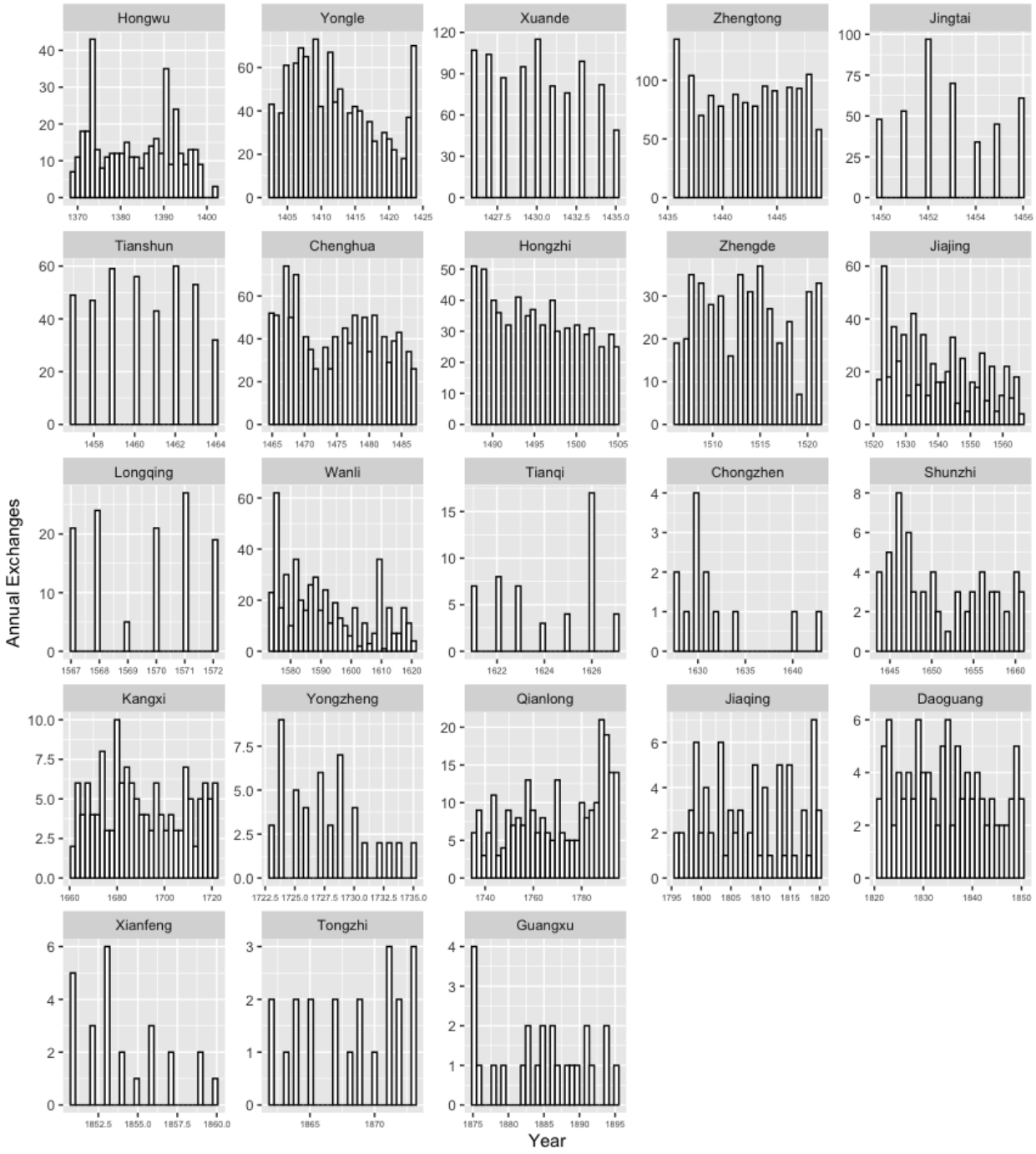
Note: This table includes all tribute entities included in the dataset during the 1368–1895 period. Initial entity lists for searching for tribute exchanges were gathered from the Collected Statues of the Ming and Qing as well as from secondary sources.

Figure A2: Annual Tribute Exchanges by Emperor



Source: Author's data. Jianwen (no recorded exchanges), Hongxi (only one year in power), and Taichang (only one month in power) emperors are omitted from the figure.

Figure A3: Annual Tribute Exchanges by Emperor



Source: Author's data. Jianwen (no recorded exchanges), Hongxi (only one year in power), and Taichang (only one month in power) emperors are omitted from the figure.

2 Additional Statistical Details and Tests

Table A4: Additional Information on Emperor Legitimacy Measures

Emperor	**Irregular succession**	**Coup or overthrow**	**Irregular entry**	**Notes**
Hongwu	1	1	1	
Jianwen				Excluded from analysis (no records).
Yongle	1	1	1	
Hongxi				Excluded from analysis (ruled for less than on year).
Xuande				
Zhengtong				
Jingtai	1		1	Second son of Xuande; assumed throne after Zhengtong captured.
Tianshun		1	1	Personal name Zhu Qizhen; Formerly Zhengtong.
Chenghua			1	Title previously stripped and put under house arrest due to Zhengtong/Tianshun-Jingtai conflict.
Hongzhi				
Zhengde				
Jiajing	1		1	Not an immediate descendant of Zhengde; refused posthumous adoption, leading to the Great Rites Controversy.
Longqing				
Wanli				
Taichang				Excluded from analysis (ruled for less than on year).
Tianqi				
Chongzhen	1		1	Younger brother of Tianqi (no surviving offspring).
Shunzhi	1	1	1	Ninth son of Hong Taiji (founding Qing emperor); succession struggle; first Qing emperor of China.
Kangxi				
Yongzheng	1		1	Fourth son of Kangxi; succession struggle among princes.
Qianlong				
Jiaqing				
Daoguang				
Xianfeng				
Tongzhi				
Guangxu	1		1	Cousin of Tongzhi (no offspring); succession struggle.
Totals	8	4	10	

Source: Author's data collection.

Table A5: Summary Statistics for Variables Used in Main Regression Analyses

Variable	N	Mean	SD	Min	Max	Range	SE
Exchange	524	16.12	22.87	0.00	135.00	135.00	1.00
New leader	524	0.49	0.29	0.00	0.98	0.98	0.01
First 2 years	524	0.09	0.28	0.00	1.00	1.00	0.01
First 3 years	524	0.13	0.34	0.00	1.00	1.00	0.01
Irregular entry	524	0.39	0.49	0.00	1.00	1.00	0.02
Irregular entry (2)	524	0.33	0.47	0.00	1.00	1.00	0.02
Coup	524	0.15	0.36	0.00	1.00	1.00	0.02
Pirate (wokou)	524	0.10	0.49	0.00	8.00	8.00	0.02
Domestic uprising	524	0.73	1.17	0.00	10.00	10.00	0.05
Japan conflict	524	0.03	0.30	0.00	5.00	5.00	0.01
Maritime	524	0.07	0.26	0.00	2.00	2.00	0.01
Imperial military	524	0.35	0.69	0.00	5.00	5.00	0.03
Temperature	524	-0.29	0.08	-0.48	-0.04	0.44	0.00
Qing	524	0.48	0.50	0.00	1.00	1.00	0.02

Note: For relevant variables (e.g. exchanges), above summary statistics are for untransformed (e.g. unlogged, unlagged, non-binary) variables.

Table A6: Alternative Measures of New Leaders

	Dependent variable: Tribute exchanges							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
First 2	0.42*	0.14	0.22**	0.17				
	(0.17)	(0.11)	(0.08)	(0.10)				
First 3					0.49**	0.20*	0.27***	0.20*
					(0.16)	(0.10)	(0.08)	(0.09)
Irregular entry				−0.30*				−0.31*
				(0.15)				(0.15)
First 2 x Irregular entry				0.11				
				(0.16)				
First 3 x Irregular entry								0.14
								(0.14)
Pirate attack			−0.16	−0.15			−0.14	−0.13
			(0.13)	(0.13)			(0.13)	(0.13)
Domestic uprising			−0.10*	−0.09			−0.11*	−0.09*
			(0.05)	(0.05)			(0.05)	(0.04)
Japan conflict			−0.15	−0.12			−0.18	−0.17
			(0.24)	(0.23)			(0.22)	(0.23)
Maritime conflict			−0.08	−0.07			−0.09	−0.08
			(0.16)	(0.16)			(0.16)	(0.16)
Imperial military			−0.05	−0.03			−0.06	−0.04
			(0.05)	(0.04)			(0.05)	(0.05)
Temperature			0.26	0.37			0.27	0.39
			(1.31)	(1.31)			(1.28)	(1.29)
Qing			0.30	0.33			0.30	0.33
			(0.51)	(0.44)			(0.50)	(0.45)
Constant	2.09***	2.92***	3.19***	3.50***	2.06***	2.91***	3.18***	3.50***
	(0.23)	(0.46)	(0.53)	(0.60)	(0.23)	(0.45)	(0.52)	(0.59)
Period FE		✓	✓	✓		✓	✓	✓
Controls			✓	✓			✓	✓
Observations	524	524	524	524	524	524	524	524

Note: *p<0.05; **p<0.01; ***p<0.001

Table A7: Alternative Measures of Irregular Entry

	Dependent variable: Tribute exchanges	
	(1)	(2)
New leader	0.25	0.11
	(0.18)	(0.20)
Coup	−0.50	
	(0.28)	
Irregular (2)		−0.78***
		(0.20)
New leader x Coup	0.64	
	(0.34)	
New leader x Irregular (2)		0.81***
		(0.24)
Pirate attack	−0.10	0.02
	(0.13)	(0.08)
Domestic uprising	−0.08	−0.07
	(0.05)	(0.05)
Japan conflict	−0.12	−0.12
	(0.26)	(0.25)
Maritime conflict	−0.10	−0.10
	(0.16)	(0.15)
Imperial military	−0.08	−0.07
	(0.06)	(0.06)
Temperature	0.32	0.39
	(1.28)	(1.29)
Qing	0.41	0.33
	(0.60)	(0.46)
Constant	3.21***	3.46***
	(0.55)	(0.56)
Period FE	✓	✓
Controls	✓	✓
Observations	524	524
Note:		*p<0.05; **p<0.01; ***p<0.001

Table A8: Leader Legitimacy and Tribute Exchanges (Negative Binomial)

	Dependent variable: Tribute exchanges			
	(1)	(2)	(3)	(4)
New leader	0.23	0.36*	0.40*	0.09
	(0.16)	(0.18)	(0.19)	(0.24)
Irregular entry				−0.62**
				(0.22)
New leader x Irregular entry				0.74**
				(0.28)
Constant	2.66***	2.99***	3.01***	3.43***
	(0.27)	(0.47)	(0.59)	(0.63)
Pirate attack			−0.06	−0.002
			(0.10)	(0.07)
Domestic uprising			−0.12*	−0.08
			(0.06)	(0.05)
Japan conflict			−0.17	−0.17
			(0.20)	(0.19)
Maritime conflict			−0.01	−0.01
			(0.15)	(0.15)
Imperial military			−0.08	−0.07
			(0.06)	(0.06)
Temperature			−0.30	−0.002
			(1.64)	(1.67)
Qing			−0.10	0.03
			(0.67)	(0.63)
Period FE		✓	✓	✓
Controls			✓	✓
Observations	524	524	524	524
Note:			*p<0.05; **p<0.01; ***p<0.001	

Table A9: Leader Legitimacy and Tribute Exchanges (Raw annual counts)

	Dependent variable:			
	(1)	(2)	(3)	(4)
First third	1.75	4.19	4.07*	0.61
	(1.41)	(2.19)	(2.05)	(2.12)
Irregular entry				−14.05*
				(6.31)
First third x Irregular entry				9.01
				(5.39)
Domestic uprising B			−1.77	−1.36
			(1.20)	(1.05)
Japan conflict			−2.77	−1.82
			(2.25)	(2.01)
Maritime conflict			−0.66	−0.46
			(2.30)	(2.23)
Imperial military			−1.56	−0.90
			(0.87)	(0.87)
Temperature			−13.20	−13.47
			(22.89)	(24.31)
Qing			0.17	1.66
			(3.32)	(3.77)
Constant	14.95***	21.43	20.07	29.20*
	(3.97)	(11.22)	(11.62)	(12.69)
Period FE		✓	✓	✓
Controls			✓	✓
Observations	524	524	524	524
Note:		*p<0.05; **p<0.01; ***p<0.001		

Table A10: Leader Legitimacy and Tribute Exchanges (Table 1 w/ all covariates)

	Dependent variable: Tribute exchanges			
	(1)	(2)	(3)	(4)
	Bivariate	FE	Controls	Interaction
New leader	0.18	0.33*	0.36*	0.11
	(0.23)	(0.16)	(0.16)	(0.21)
Irregular entry				−0.61**
				(0.20)
New leader x Irregular entry				0.68**
				(0.25)
Pirate attack			−0.11	−0.03
			(0.11)	(0.08)
Domestic uprising			−0.09	−0.07
			(0.05)	(0.04)
Japan conflict			−0.14	−0.13
			(0.25)	(0.25)
Maritime conflict			−0.08	−0.09
			(0.16)	(0.16)
Imperial military			−0.07	−0.06
			(0.05)	(0.05)
Temperature			0.39	0.48
			(1.19)	(1.29)
Qing			0.23	0.31
			(0.54)	(0.47)
Constant	2.04***	2.75***	3.03***	3.39***
	(0.23)	(0.43)	(0.51)	(0.56)
Period FE		✓	✓	✓
Controls			✓	✓
Observations	524	524	524	524
R^2	.002	.781	.796	.808

Note: This table reports results of an annual-level analysis. The dependent variable is the (logged) number of annual tribute exchanges. The variable of interest in columns 1–3 is new leader. In column 4 it is the interaction of new leader and irregular entry. Robust standard errors clustered at the emperor level are in parentheses. *p<0.05; **p<0.01; ***p<0.001.

Table A11: Leader Legitimacy, Tribute Exchanges, and "High-Value" Targets (Table 2 w/ all Covariates)

	Dependent variable: Tribute exchanges					
	(1)	(2)	(3)	(4)	(5)	(6)
	East Asia	Southeast Asia	Indian Ocean	North Asia	Central Asia	Southwest
New leader	0.04	0.02	−0.002	0.09	0.07	0.05
	(0.11)	(0.11)	(0.06)	(0.26)	(0.20)	(0.14)
Irregular entry	−0.23*	−0.22	−0.01	−0.68**	−0.36*	−0.40
	(0.10)	(0.15)	(0.10)	(0.26)	(0.17)	(0.22)
New leader x Irregular entry	0.37**	0.20	0.09	0.74	0.40	0.37
	(0.14)	(0.23)	(0.14)	(0.41)	(0.30)	(0.28)
Pirate attack	0.05	0.12	0.14	−0.06	0.04	−0.21*
	(0.07)	(0.12)	(0.10)	(0.08)	(0.06)	(0.09)
Domestic uprising	−0.01	−0.06	−0.07*	−0.005	−0.08*	−0.03
	(0.03)	(0.05)	(0.03)	(0.03)	(0.04)	(0.05)
Japan conflict	0.05	−0.13	−0.07	−0.50	−0.17*	0.18
	(0.20)	(0.14)	(0.06)	(0.32)	(0.07)	(0.12)
Maritime conflict	−0.09	0.07	0.01	−0.01	0.07	−0.08
	(0.10)	(0.09)	(0.06)	(0.11)	(0.10)	(0.12)
Imperial military	−0.01	−0.03	−0.04	−0.06	−0.06	−0.03
	(0.04)	(0.05)	(0.04)	(0.05)	(0.05)	(0.04)
Temperature	−0.02	0.24	−0.73	−0.61	−0.28	−0.07
	(0.53)	(0.58)	(0.53)	(1.61)	(1.21)	(0.93)
Qing	0.73**	−0.07	0.03	−0.38	0.02	−0.27
	(0.23)	(0.13)	(0.05)	(0.36)	(0.19)	(0.21)
Constant	1.69***	2.07***	0.26	0.99	0.88	1.86***
	(0.23)	(0.27)	(0.26)	(0.75)	(0.58)	(0.43)
Period FE	✓	✓	✓	✓	✓	✓
Controls	✓	✓	✓	✓	✓	✓
Observations	524	524	524	524	524	524
R^2	.543	.540	.223	.810	.540	.800

Note: This table reports results of an annual-level analysis. The dependent variable is the (logged) number of annual tribute exchanges. The variable of interest is the interaction of new leader and irregular entry. Robust standard errors clustered at the emperor level are in parentheses. *p<0.05; **p<0.01; ***p<0.001.

Table A12: Leader Legitimacy and Tribute, Entity-Year Analysis (Table 3 w/ all covariates)

	Dependent variable: Tribute exchange					
	All				East Asia	
	(1) Bivariate	(2) FE	(3) Controls	(4) Interaction	(5) Controls	(6) Interaction
New leader	0.36*	0.58***	0.72***	0.27	1.41***	0.72
	(0.15)	(0.17)	(0.15)	(0.14)	(0.36)	(0.54)
Irregular entry				−0.79***		−1.16*
				(0.18)		(0.53)
New leader x Irregular entry				0.69		1.74*
				(0.39)		(0.84)
Foreign new leader					0.17	0.20
					(0.27)	(0.26)
Pirate attack			−0.06	0.01	0.08	0.16
			(0.12)	(0.13)	(0.40)	(0.39)
Domestic uprising			−0.02	−0.01	0.11	0.14
			(0.07)	(0.07)	(0.23)	(0.23)
Japan conflict			0.25	0.26	−0.06	−0.09
			(0.19)	(0.19)	(0.99)	(1.01)
Maritime conflict			0.12	0.14	0.23	0.27
			(0.14)	(0.14)	(0.30)	(0.29)
Imperial military			0.01	−0.005	−0.14	−0.18
			(0.09)	(0.08)	(0.19)	(0.19)
Temperature			0.44	0.75	−5.27	−4.65
			(1.48)	(1.46)	(3.51)	(3.41)
Qing			2.38***	2.19***	15.50***	14.69***
			(0.27)	(0.34)	(1.11)	(1.09)
Constant	−1.40***	−1.50	−1.62*	−1.00	−3.03***	−2.60***
	(0.12)	(0.88)	(0.70)	(0.74)	(0.72)	(0.71)
Entity FE		✓	✓	✓	✓	✓
Decade FE		✓	✓	✓	✓	✓
Controls			✓	✓	✓	✓
Observations	22,645	22,645	22,645	22,645	1,545	1,545

Note: This table reports results of an entity-year analysis. Columns 1–4 include all entities, while columns 4–6 include only East Asian entities. The dependent variable is a binary measure of whether a tribute exchange occurred with a given entity in a given year. The variable of interest in columns 1–3 and 5 is new leader. In columns 4 and 6 it is the interaction of new leader and irregular entry. Robust standard errors clustered at the emperor level are in parentheses. *p<0.05; **p<0.01; ***p<0.001.

Table A13: Leader Legitimacy and Tribute (Ming and Qing)

	Dependent variable: Tribute exchange			
	(1)	(2)	(3)	(4)
	Ming	Ming	Qing	Qing
New leader	0.67***	0.41	0.14	0.06
	(0.20)	(0.29)	(0.16)	(0.20)
Irregular entry		−0.67*		−0.17
		(0.26)		(0.19)
New leader x Irregular entry		0.43		.38
		(0.28)		(0.27)
Domestic uprising	−0.08	−0.04	−0.07	−0.07
	(0.07)	(0.06)	(0.05)	(0.04)
Japan conflict	−0.45	−0.40	0.29*	0.30*
	(0.26)	(0.24)	(0.15)	(0.14)
Maritime conflict	−0.16	−0.18	0.03	0.02
	(0.31)	(0.30)	(0.13)	(0.11)
Imperial military	−0.12**	−0.08*	−0.01	−0.02
	(0.04)	(0.04)	(0.07)	(0.07)
Temperature	−0.58	−0.10	0.97	0.86
	(2.19)	(2.20)	(1.04)	(1.03)
Constant	2.58***	3.24***	1.67***	1.68**
	(0.73)	(0.84)	(0.45)	(0.52)
Period FE	✓	✓	✓	✓
Controls	✓	✓	✓	✓
Observations	272	272	252	252
Note:				*p<0.05; **p<0.01; ***p<0.001

Table A14: Main Analysis (Table 1) without Emperor Tianshun

	Dependent variable: Tribute exchanges			
	(1)	(2)	(3)	(4)
	Bivariate	FE	Controls	Interaction
New leader	0.20	0.34*	0.36*	0.11
	(0.23)	(0.16)	(0.16)	(0.21)
Irregular entry				−0.61**
				(0.21)
Domestic uprising			−0.09	−0.07
			(0.05)	(0.04)
Japan conflict			−0.14	−0.13
			(0.25)	(0.25)
Maritime conflict			−0.09	−0.09
			(0.16)	(0.16)
Imperial military			−0.07	−0.06
			(0.05)	(0.06)
Temperature			0.39	0.47
			(1.20)	(1.30)
Qing			0.23	0.31
			(0.54)	(0.48)
New leader x Irregular entry				0.70**
				(0.26)
Constant	2.00***	2.75***	3.03***	3.38***
	(0.23)	(0.43)	(0.51)	(0.57)
Period FE		✓	✓	✓
Controls			✓	✓
Observations	524	524	524	524
Note:				*p<0.05; **p<0.01; ***p<0.001