

Annex A: State Size and Democracy

List of Countries, Variables, and Data Sources

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1 Introduction

This annex covers the data collection methods for this thesis, including the independent variables, dependent variables, and the covariates. I will also be covering the formulae used in the calculation of specific variables.

2 List of Countries

Table A1: List of Countries in Samples

Sample	Countries
V-Dem Sample	Australia, Bahrain, Barbados, Comoros, Cuba, Cyprus, Dominican Republic, Fiji, Haiti, Iceland, Indonesia, Ireland, Jamaica, Japan, Madagascar, Malta, Mauritius, New Zealand, Papua New Guinea, Philippines, Seychelles, Singapore, Solomon Islands, Sri Lanka, Trinidad and Tobago, United Kingdom, and Vanuatu (27)
Microstates	Antigua and Barbuda, Bahamas, Cabo Verde, Dominica, Grenada, Kiribati, Marshall Islands, Federated States of Micronesia, Nauru, Palau, Samoa, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Tonga, and Tuvalu (16)
Not in Samples	Brunei Darussalam, Timor-Leste, the Maldives, Taiwan, and Sao Tome and Principe (5)

Note: The V-Dem and Microstate Samples both make up the full sample used in the analyses in the supplementary materials. The 5 countries in the "Not in Samples" row are omitted from the dataset due to severe missingness on many variables. As a note, we cannot be sure about the kinds of biases that may be introduced from the omission of these countries.

3 List of Variables, Description, and Sources

Table A2: Variables, Description, and Sources/Calculation

Variable	Description	Source/Description
population	Population size of each country-year observation.	World Bank(2023b)
ln_popn	Natural log of population of each country-year observation.	ln(population)
landarea	Land area of each country-year observation.	World Bank(2023b)
ln_landarea	Natural log of land area of each country-year observation.	ln(landarea)
geom2	Geometric means of amended Z-scored population and land area. The floor values of minimum values of Z-scores are deducted from true Z-score values to shift all values above 0.	See Equation (1) in thesis or Introductory section of Annex F for more information.
ln_geom2	Natural log of the composite indicator for state size.	ln(geom2)
arable	Arable land area of each country-year observation.	World Bank(2023b)
rainfall_wb	Rainfall of each country-year observation (in mm)	World Bank (2023a)
ln_rainfall	Natural log of rainfall	ln(rainfall_wb)
temperature_wb	Average annual temperature.	World Bank (2023a)
gdp	GDP (in 2015 USD prices) of each country-year observation.	UNData (2023)
gov_expenditure	Amount of government expenditure of each country-year observation (in 2015 USD prices).	UNData (2023)
govexpend_ratio	% GDP comprising government expenditure for each country-year observation.	$\text{gov_expenditure} \div \text{gdp}$
urban	Urban population of each country-year observation.	World Bank(2023b)
prop_urban	Urban share of total population.	$\text{urban} \div \text{population}$
resourcerent	For every country-year observation, a resource dependence variable is created. This variable is conceptualised more fully in Dunning (2013). Because rents are already calculated as the subtraction of the cost of production from the total sales of natural resources, we use resource rents as a proportion of the total GDP.	World Bank (2023b)
oilrent	Concept consistent with resourcerent. Profits collected from oil for each country-year observation as a % of GDP.	World Bank(2023b)
ethfrac_alesina2003	Ethnic fractionalisation score of each country observation. Assumed time-invariant.	(Alesina et al., 2003)
total_odashare_oecd	Official Development Assistance.	(Organisation for Economic Co-operation and Development (OECD), 2023)
islamic	Binary Muslim-majority status.	Self-collected
muslim_pc_imputed	Imputed values for Muslim-majority status. Muslim share of total population.	World Religions Database (Johnson & Grim, 2023).
milper	Military personnel (in 1000s) of each country-year observation.	From 1961-2016: Greig and Enterline (2021). From 2017 onwards: International Institute for Strategic Studies (2023).
milrate	Military personnel per 1000 people for each country-year observation. This measures coercive capacity.	$((\text{milper} \times 1000) + 1) \times \frac{1000}{\text{population}}$
v2xnp_client	Clientelism Index.	V-Dem Dataset (Coppedge et al., 2023)
fh_total_reversed	Freedom House 14-point index.	Freedom House (2023) and R package 'democracyData' (Márquez, 2020)
v2x_partipdem	V-Dem Participatory Democracy Index.	V-Dem Dataset (Coppedge et al., 2023)

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