

## Appendix A1: Variables, Data Sources, and Full Regression Models

**Table A1-1:** Description of Dependent Variables

<b>Variable</b>	<b>Description</b>	<b>Source</b>
<i>CI [Outcome]</i>	Outcome index (emissions) of cooperative behavior in climate change policy. Higher values indicate more cooperative behavior between 1990 and 2003.	Bättig and Bernauer 2009
<i>CI [Output]</i>	Output index (policy output) of cooperative behavior in climate change policy. Higher values indicate more cooperative behavior between 1990 and 2005.	Bättig and Bernauer 2009
<i>Ecological Footprint</i>	“The Ecological Footprint measures the ecological assets that a given population requires to produce the natural resources it consumes (including plant-based food and fiber products, livestock and fish products, timber and other forest products, space for urban infrastructure) and to absorb its waste, especially carbon emissions.”	Global Footprint Network
<i>EPI</i>	The Environmental Performance Index is a composite index for environmental health and ecosystem vitality. The included indicators mostly focus on policy outcomes, such as emissions.	EPI
<i>CO<sub>2</sub></i>	Carbon dioxide emissions (metric tons per capita).	Worldbank
<i>N<sub>2</sub>O</i>	Nitrous oxide emissions (metric tons per capita, CO <sub>2</sub> equivalent).	Worldbank
<i>CH<sub>4</sub></i>	Methane emissions (metric tons per capita, CO <sub>2</sub> equivalent).	Worldbank
<i>SF<sub>6</sub></i>	Sulfur hexafluoride gas emissions (metric tons per capita, CO <sub>2</sub> equivalent).	Worldbank
<i>Renewables [Production]</i>	Renewable electricity output (% of total electricity output).	Worldbank
<i>Renewables [Consumption]</i>	Renewable energy consumption (% of total final energy consumption), logged.	Worldbank
<i>Lead Exposure</i>	Component of the EPI. Lead exposure measured as the age-standardized disability-adjusted life years lost per 100,000 persons (DALY rate) and transformed relative to target for good performance (distance-to-target method). Larger values indicated better performance.	EPI
<i>Wastewater Treatment</i>	Component of the EPI. Percentage of wastewater treated, weighted by the connection rate to the wastewater treatment system. Transformed relative to target for good performance (distance-to-target method). Larger values correspond to better performance.	EPI
<i>Protected area</i>	Terrestrial and marine protected areas (% of total territorial area), logged.	Worldbank
<i>Protected area Representativeness Index</i>	Component of the EPI: “Measures the extent to which a country’s protected areas are ecologically representative.”(Relative to set targets).	EPI
<i>Deforestation</i>	Annual Change of area covered with Forrest as percentage of the land area, percentage points. Negative values indicate deforestation.	Worldbank
<i>Species Protection Index</i>	Component of the EPI: “Measures protected areas in relation to species distributions. The proportion of a species range in a country under protection is calculated for each species as Area of species range in country protected / Area of species range in country and capped at a maximum of 0.17. This value is then averaged for all species occurring in a country, with all species weighted equally.”	EPI

**Table A1-2: Descriptive Statistics of Dependent Variables**

<b>Variable</b>	<b>Year</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>
<i>CI: Outcome</i>	2003	152	0.59	0.24
<i>CI: Output</i>	2005	152	0.61	0.20
<i>Ecological Footprint</i>	2013	151	3.16	2.35
<i>EPI</i>	2018	149	56.20	13.18
<i>CO<sub>2</sub></i>	2014	153	4.61	6.45
<i>N<sub>2</sub>O</i>	2012	154	0.60	0.64
<i>CH<sub>4</sub></i>	2012	154	1.57	2.00
<i>SF<sub>6</sub></i>	2010	153	0.012	0.03
<i>Renewables: Output</i>	2015	153	35.96	32.43
<i>Renewables: Consumption</i>	2015	153	35.02	28.89
<i>PBD</i>	2016	149	58.90	22.95
<i>WWT</i>	2016	149	57.13	37.56
<i>Protected area</i>	2017	152	12.78	11.31
<i>PAR</i>	2016	149	42.37	27.86
<i>Deforestation</i>	2016	153	-0.02	0.27
<i>SPI</i>	2014	149	72.11	29.28

**Table A1-3: Description of Independent Variables**

<b>Variable</b>	<b>Description</b>	<b>Source</b>
<i>Autocracy</i>	Reference: democratic regimes.	Bjørnskov and Rode (2018)
<i>Autocratic Regime Types</i>	Subclassification of royal dictatorships, military dictatorships, hegemonic authoritarian regimes, and competitive authoritarian leaders.	Combination of data from Bjørnskov and Rode (2018) and DPI (Cruz <i>et al.</i> 2016)*
<i>GDP</i>	Reference: democratic regimes. GDP per Capita, constant 2010 US-\$, logged	Worldbank
<i>GDP growth</i>	Annual growth of GDP per Capita, percentaged.	Worldbank*
<i>Natural Resource Rent</i>	Natural resource rents as a percentage of GDP.	Worldbank
<i>Population Growth</i>	Annual growth of Population, percentaged.	Worldbank*
<i>Population Density</i>	Inhabitants per km <sup>2</sup> .	Worldbank
<i>Climate Vulnerability</i>	Vulnerability to climate change based on the impact of extreme weather events, loss of agricultural productivity and sea level rise.	Wheeler (2011)
<i>Corruption</i>	Perceived corruption operationalized as the Bayesian Corruption Indicator from the QOG dataset.	Teorell <i>et al.</i> (2020)
<i>Durability</i>	Number of consecutive years a country has been classified within the current regime type.	Bjørnskov and Rode (2018)

Notes:

\* own calculations based on the referenced data source.

**Table A1-4:** Distribution of Observations Across Regime Types

<b>Variable</b>	<b>Year</b>	<b>Royal Dictatorship</b>	<b>Military Dictatorship</b>	<b>Hegemonic Authoritarian</b>	<b>Competitive Authoritarian</b>	<b>Democracy</b>
<i>CI: Outcome</i>	2003	11	19	15	18	81
<i>CI: Output</i>	2005	11	18	17	18	83
<i>Ecological Footprint</i>	2013	8	12	13	20	90
<i>EPI</i>	2018	8	17	15	14	91
<i>CO<sub>2</sub></i>	2014	9	16	16	14	92
<i>N<sub>2</sub>O</i>	2012	9	17	16	18	89
<i>CH<sub>4</sub></i>	2012	9	17	16	18	89
<i>SF<sub>6</sub></i>	2010	8	10	11	15	76
<i>Renewables: Output</i>	2015	9	16	13	16	93
<i>Renewables: Consumption</i>	2015	9	16	13	16	93
<i>PBD</i>	2016	9	15	12	18	91
<i>WWT</i>	2016	9	15	12	18	91
<i>Protected area</i>	2017	9	15	12	18	90
<i>PAR</i>	2016	9	15	12	18	91
<i>Deforestation</i>	2016	8	15	15	14	92
<i>SPI</i>	2014	9	14	13	18	91

**Table A1-5: Environmental Performance of Autocracies versus Democracies**

	[c] CI: Outcome	[p] CI: Output	[c] EPI	[c] Eco. Footprint	[c] log(CO <sub>2</sub> )	[c] log(N <sub>2</sub> O)	[c] log(CH <sub>4</sub> )	[c] log(SF <sub>6</sub> )	[c] Renew: Product. <sup>w</sup>	[c] Renew: Consu. <sup>w</sup>	[c] PBD <sup>w</sup>	[c] WWT <sup>w</sup>	[p] PA <sup>w</sup>	[p] PAR <sup>w</sup>	[p] SPI <sup>w</sup>	[c] Deforest
Autocracy	-0.03 (0.15)	-0.17 (0.18)	-0.24 ** (0.09)	-0.00 (0.11)	0.04 (0.04)	0.10 (0.18)	0.13 (0.23)	-0.08 (0.08)	-0.25 (0.19)	-0.25 * (0.14)	-0.04 (0.13)	0.00 (0.13)	-0.44 ** (0.20)	-0.45 ** (0.19)	-0.47 ** (0.19)	-0.27 (0.19)
GDP	1.23 (0.92)	-0.55 (1.10)	-0.75 (0.62)	1.97 *** (0.72)	2.13 *** (0.27)	-1.49 (1.11)	-0.70 (1.47)	-0.87 ** (0.43)	-2.07 (1.27)	-3.61 *** (0.91)	-1.52 * (0.87)	1.11 (0.86)	-2.52 * (1.31)	-1.49 (1.27)	-3.87 *** (1.20)	-0.04 (1.27)
GDP <sup>2</sup>	-1.90 ** (0.93)	0.45 (1.11)	1.52 ** (0.63)	-2.85 *** (0.74)	-1.85 *** (0.27)	1.71 (1.13)	1.37 (1.51)	1.02 ** (0.45)	1.94 (1.28)	3.03 *** (0.92)	2.15 ** (0.88)	-0.48 (0.87)	2.70 ** (1.32)	1.55 (1.28)	4.05 *** (1.21)	0.31 (1.29)
GDP growth	0.03 (0.06)	-0.10 (0.08)	-0.03 (0.04)	-0.06 (0.05)	0.04 ** (0.02)	0.14 ** (0.07)	0.55 *** (0.19)	0.04 (0.04)	0.15 * (0.09)	0.10 (0.07)	-0.07 (0.06)	-0.06 (0.06)	0.12 (0.09)	0.08 (0.08)	-0.06 (0.09)	0.24 *** (0.08)
Nat. Resource Rent	-0.17 ** (0.07)	-0.18 * (0.09)	-0.06 (0.05)	-0.11 * (0.06)	-0.01 (0.02)	0.10 (0.09)	0.57 *** (0.12)	0.02 (0.04)	-0.21 ** (0.10)	-0.06 (0.07)	-0.07 (0.07)	-0.05 (0.07)	-0.08 (0.10)	-0.14 (0.10)	-0.16 (0.10)	-0.09 (0.10)
Population growth	-0.14 * (0.07)	-0.28 *** (0.08)	-0.08 (0.05)	-0.04 (0.06)	-0.01 (0.02)	-0.23 ** (0.09)	-0.02 (0.15)	-0.07 * (0.04)	0.06 (0.11)	0.06 (0.08)	-0.30 *** (0.07)	-0.07 (0.07)	0.02 (0.11)	-0.02 (0.11)	-0.05 (0.11)	0.28 *** (0.11)
Population density	-0.10 (0.06)	-0.02 (0.07)	-0.08 * (0.04)	0.01 (0.05)	-0.00 (0.02)	-0.07 (0.07)	-0.14 (0.09)	-0.05 (0.10)	-0.15 * (0.08)	-0.09 (0.06)	-0.03 (0.06)	-0.01 (0.06)	-0.16 * (0.08)	-0.15 * (0.08)	-0.12 (0.08)	0.02 (0.08)
Climate Vulnerability	-0.01 (0.09)	-0.06 (0.10)	-0.06 (0.06)	0.06 (0.06)	-0.07 *** (0.02)	-0.06 (0.09)	-0.10 (0.12)	-0.02 (0.04)	0.04 (0.11)	0.13 (0.08)	-0.06 (0.08)	-0.11 (0.08)	-0.03 (0.12)	-0.03 (0.11)	-0.15 (0.11)	0.22 * (0.11)
Corruption	-0.10 (0.11)	-0.21 (0.13)	0.04 (0.07)	0.01 (0.08)	0.00 (0.03)	0.17 (0.12)	0.18 (0.16)	-0.03 (0.06)	0.07 (0.13)	-0.08 (0.09)	-0.00 (0.09)	-0.08 (0.09)	0.02 (0.14)	0.19 (0.13)	0.22 * (0.12)	0.40 *** (0.13)
Durability	-0.15 * (0.08)	0.18 * (0.09)	0.02 (0.06)	0.06 (0.06)	0.01 (0.02)	0.15 (0.10)	-0.07 (0.13)	-0.01 (0.05)	0.06 (0.11)	-0.03 (0.08)	-0.12 (0.08)	-0.03 (0.08)	-0.09 (0.12)	0.19 * (0.11)	0.05 (0.11)	-0.05 (0.11)
Observations	144	147	143	145	147	149	149	120	147	147	145	145	144	145	144	145
Adj. R <sup>2</sup>	0.486	0.309	0.798	0.719	0.841	0.092	0.303	0.378	0.121	0.549	0.593	0.598	0.090	0.132	0.206	0.129

Note:

Reported are the beta-coefficients of linear regression models and standard errors in parentheses.

\* p<0.1 \*\* p<0.05 \*\*\* p<0.01

[p] policy outputs, [c] policy outcomes; w weak sustainability, remainder strong sustainability.

**Table A1-6:** Environmental Performance of disaggregated Autocracies versus Democracies

	[c] CI: Outcome	[p] CI: Output	[c] EPI	[c] Eco. Footprint	[c] log(CO <sub>2</sub> )	[c] log(N <sub>2</sub> O)	[c] log(CH <sub>4</sub> )	[c] log(SF <sub>6</sub> )	[c] Renew: Product. <sup>w</sup>	[c] Renew: Consu. <sup>w</sup>	[c] PBD <sup>w</sup>	[c] WWT <sup>w</sup>	[p] PA <sup>w</sup>	[p] PAR <sup>w</sup>	[p] SPI <sup>w</sup>	[c] Deforest
Royal Dictatorship	-0.21 (0.27)	-0.05 (0.33)	-0.62 *** (0.21)	-0.36 (0.25)	0.15 (0.41)	-0.46 (0.36)	0.30 (0.56)	-0.18 (0.20)	-0.65 (0.39)	-0.58 ** (0.28)	-0.86 *** (0.26)	0.48 * (0.27)	-0.91 ** (0.44)	-0.97 ** (0.40)	-0.42 (0.42)	-0.24 (0.40)
Military Dictatorship	0.10 (0.22)	-0.22 (0.26)	-0.07 (0.15)	0.08 (0.16)	-0.08 (0.20)	0.02 (0.26)	0.05 (0.36)	-0.02 (0.12)	-0.43 (0.27)	-0.23 (0.19)	0.14 (0.19)	-0.10 (0.19)	-0.41 (0.32)	-0.41 (0.29)	-0.33 (0.28)	-0.50 * (0.29)
Hegemonic Authoritarian	-0.14 (0.24)	-0.17 (0.26)	-0.39 *** (0.14)	0.03 (0.17)	-0.02 (0.21)	0.58 ** (0.28)	-0.21 (0.38)	-0.07 (0.11)	0.57 * (0.30)	0.25 (0.22)	0.25 (0.21)	-0.14 (0.22)	0.15 (0.31)	-0.08 (0.32)	-0.32 (0.27)	-0.20 (0.31)
Competitive Authoritarian	0.04 (0.21)	-0.21 (0.24)	-0.14 (0.12)	-0.02 (0.16)	0.56 *** (0.21)	0.00 (0.23)	0.34 (0.30)	-0.10 (0.11)	-0.53 ** (0.26)	-0.48 ** (0.19)	-0.03 (0.17)	-0.01 (0.18)	-0.68 *** (0.26)	-0.51 * (0.26)	-0.76 *** (0.28)	-0.18 (0.26)
GDP	1.36 (0.94)	-0.64 (1.13)	-0.41 (0.63)	2.27 *** (0.76)	-0.10 (1.02)	-0.25 (1.21)	-1.36 (1.68)	-0.86 * (0.49)	-1.67 (1.27)	-3.40 *** (0.91)	-0.98 (0.87)	0.79 (0.90)	-2.41 * (1.32)	-1.15 (1.32)	-3.80 *** (1.25)	0.12 (1.34)
GDP <sup>2</sup>	-2.03 ** (0.95)	0.53 (1.14)	1.22 * (0.63)	-3.14 *** (0.77)	1.21 (1.05)	0.52 (1.21)	1.98 (1.71)	1.00 ** (0.50)	1.52 (1.28)	2.81 *** (0.92)	1.65 * (0.88)	-0.18 (0.90)	2.65 ** (1.33)	1.24 (1.33)	3.99 *** (1.26)	0.15 (1.35)
GDP growth	0.03 (0.06)	-0.10 (0.08)	-0.01 (0.04)	-0.07 (0.05)	-0.03 (0.07)	0.15 ** (0.07)	0.57 *** (0.21)	0.04 (0.04)	0.08 (0.09)	0.06 (0.07)	-0.09 * (0.06)	-0.04 (0.06)	0.11 (0.09)	0.07 (0.08)	-0.07 (0.09)	0.25 *** (0.08)
Nat. Resource Rent	-0.16 ** (0.07)	-0.18 * (0.09)	-0.05 (0.05)	-0.10 (0.06)	0.16 * (0.09)	0.08 (0.09)	0.57 *** (0.13)	0.02 (0.05)	-0.17 * (0.10)	-0.03 (0.07)	-0.03 (0.07)	-0.07 (0.07)	-0.04 (0.10)	-0.10 (0.10)	-0.15 (0.10)	-0.09 (0.10)
Population growth	-0.13 (0.08)	-0.30 *** (0.09)	-0.04 (0.06)	0.00 (0.07)	-0.15 * (0.09)	-0.12 (0.10)	-0.05 (0.15)	-0.05 (0.05)	0.04 (0.11)	0.06 (0.08)	-0.24 *** (0.07)	-0.11 (0.08)	0.03 (0.12)	0.01 (0.11)	-0.07 (0.11)	0.29 ** (0.12)
Population density	-0.09 (0.06)	-0.02 (0.07)	-0.06 (0.04)	0.00 (0.05)	0.19 (0.27)	-0.13 * (0.07)	-0.11 (0.09)	-0.04 (0.10)	-0.22 *** (0.08)	-0.13 ** (0.06)	-0.05 (0.06)	0.01 (0.06)	-0.21 ** (0.09)	-0.18 ** (0.09)	-0.12 (0.08)	0.02 (0.09)
Climate Vulnerability	-0.02 (0.09)	-0.06 (0.10)	-0.06 (0.06)	0.06 (0.07)	-0.07 (0.08)	0.01 (0.10)	-0.15 (0.13)	-0.02 (0.04)	0.05 (0.11)	0.13 (0.08)	-0.06 (0.08)	-0.11 (0.08)	-0.01 (0.12)	-0.04 (0.12)	-0.15 (0.11)	0.24 ** (0.12)
Corruption	-0.12 (0.12)	-0.20 (0.13)	0.01 (0.07)	-0.02 (0.08)	-0.12 (0.10)	0.08 (0.12)	0.19 (0.18)	-0.04 (0.06)	-0.01 (0.13)	-0.13 (0.10)	-0.08 (0.09)	-0.03 (0.09)	-0.02 (0.14)	0.13 (0.14)	0.22 * (0.13)	0.39 *** (0.14)
Durability	-0.15 * (0.08)	0.18 * (0.10)	0.03 (0.06)	0.06 (0.06)	-0.20 * (0.10)	0.15 (0.10)	-0.07 (0.13)	-0.01 (0.05)	0.04 (0.11)	-0.05 (0.08)	-0.13 * (0.07)	-0.02 (0.08)	-0.13 (0.12)	0.18 (0.11)	0.03 (0.11)	-0.05 (0.11)
Observations	144	147	143	145	147	149	149	120	147	147	145	145	144	145	144	145
Adj. R <sup>2</sup>	0.481	0.295	0.805	0.719	0.817	0.107	0.303	0.383	0.177	0.572	0.628	0.603	0.119	0.137	0.201	0.116

Note:

Reported are the beta-coefficients of linear regression models and standard errors in parentheses.

\* p<0.1 \*\* p<0.05 \*\*\* p<0.01

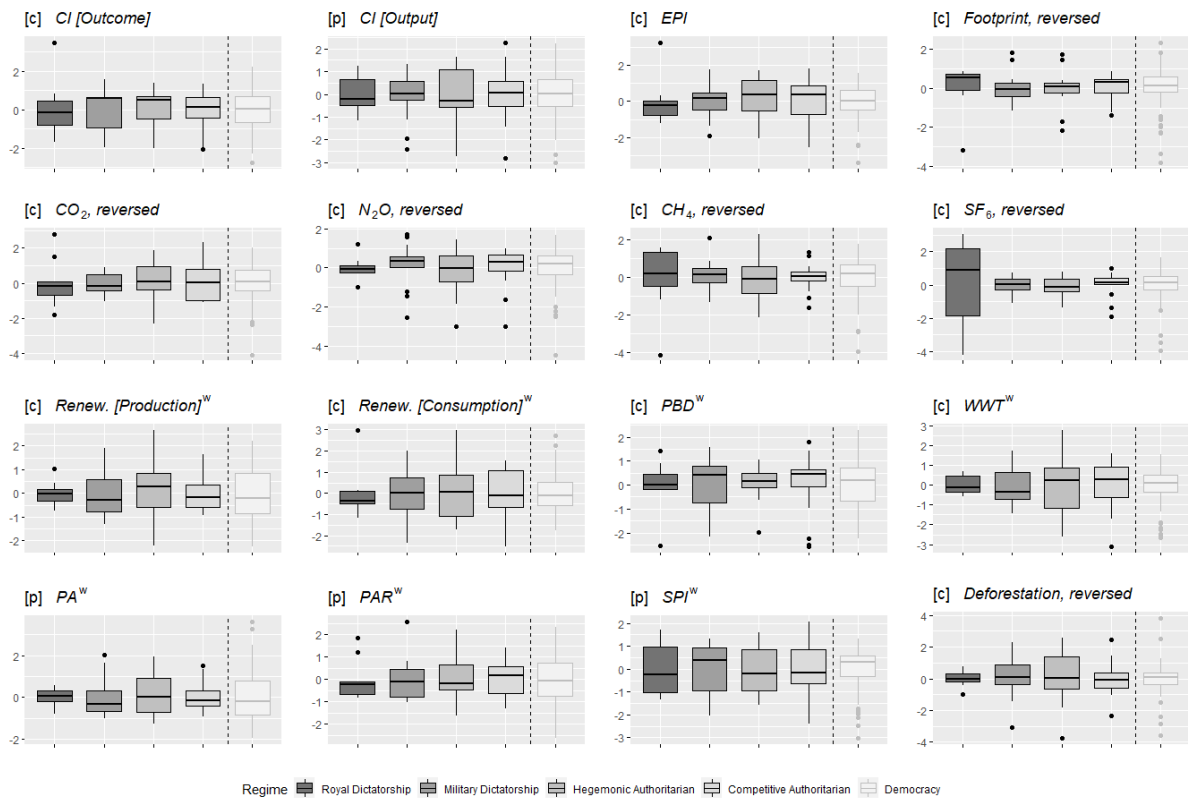
[p] policy outputs, [c] policy outcomes; w weak sustainability, remainder strong sustainability.

## *References Appendix A1*

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# Appendix A2: Sensitivity of Patterns for Influential Observations and Regime Types

Figure A2-1: Standardized Residuals by Regime Type







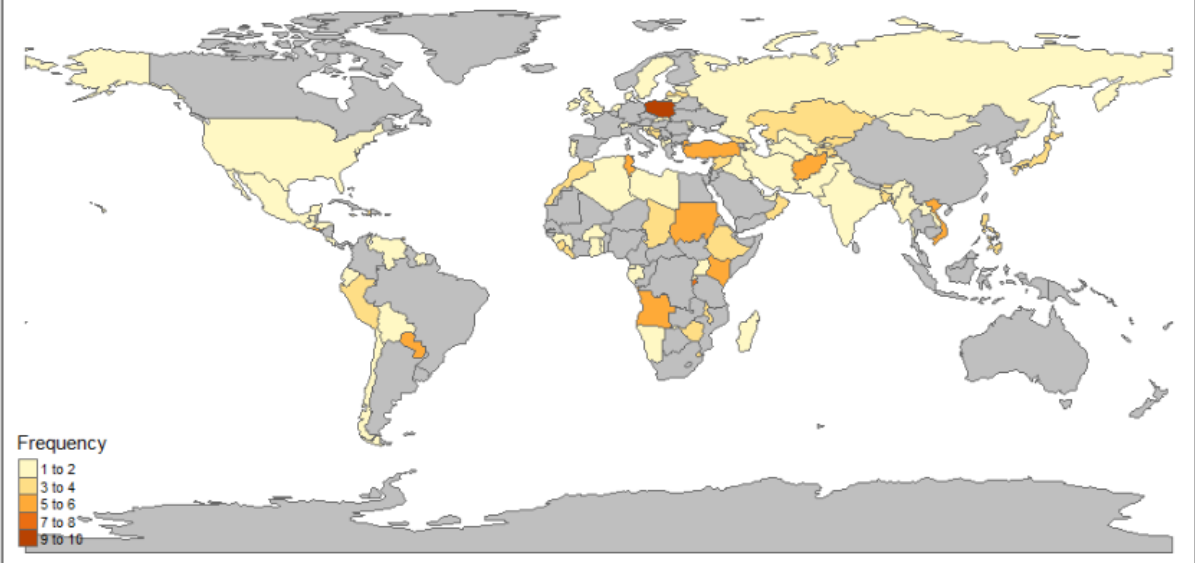
**Table A2-1: Influential Cases**

<b>Model</b>	<b>Overestimations (negative residuals)</b>	<b>Underestimations (positive residuals)</b>
[c] <i>CI [Outcome]</i>	Azerbaijan, Cape Verde, Chile, Japan, Liberia, Oman, Rwanda, Poland, USA	Albania, Lithuania, Myanmar, <b>Peru</b> , Tajikistan
[p] <i>CI [Output]</i>	Afghanistan, Bosnia & Herzegovina, Chad, Haiti, Kyrgyzstan	Algeria, Burundi, El Salvador, Pakistan, Togo
[c] <i>EPI</i>	Angola, Bangladesh, Bosnia & Herzegovina, Burundi, Chad, Croatia, Estonia, Guatemala, Malawi	Ecuador, India, Kazakhstan, Lithuania, <b>Philippines</b>
[c] <i>Ecological Footprint</i>	Bhutan, El Salvador, Iraq, Latvia, Laos, Morocco, Oman, Poland, Sierra Leone, Syria	Angola, Georgia, Malawi, Switzerland
[c] <i>CO<sub>2</sub></i>	Bahrain, Burundi, El Salvador, Iraq, Kazakhstan, Morocco, Oman, Syria	Angola, Ethiopia, Kenya, Liberia, <b>Poland</b> , Sudan, Switzerland
[c] <i>N<sub>2</sub>O</i>	Guinea, <b>Kyrgyzstan</b> , Namibia, <b>Paraguay</b> , Philippines, Qatar,	Burundi, Georgia, Haiti, Kenya, Peru
[c] <i>CH<sub>4</sub></i>	El Salvador, Eswatini, <b>Kyrgyzstan</b> , Morocco, Namibia, Pakistan, <b>Paraguay</b>	Angola, Burundi, Haiti, Ireland, Kazakhstan, Kenya, Libya, Peru,
[c] <i>SF<sub>6</sub></i>	Burkina Faso, Iran, Libya, Madagascar	Albania, Bolivia, Ghana, Honduras, Macedonia, Mexico, <b>Mongolia</b> , Oman
[c] <i>Renewables: [Production]<sup>w</sup></i>	Afghanistan, Georgia, Japan, Malawi, <b>Poland</b>	Bangladesh, Gabon, Mongolia, UK, Syria
[c] <i>Renewable [Consumption]<sup>w</sup></i>	Afghanistan, Burundi, Tajikistan	Bhutan, Ethiopia, Kenya, <b>Poland</b> , Sudan
[c] <i>PBD<sup>w</sup></i>	Afghanistan, Bangladesh, Croatia, Denmark Equatorial Guinea, UAE, Qatar	Chad, Kazakhstan, Latvia, Poland, Sudan
[c] <i>WWT<sup>w</sup></i>	Angola, Bosnia and Herzegovina, Ethiopia, Qatar, Russia	Burundi, Tunisia, Poland
[p] <i>Protected area<sup>w</sup></i>	Croatia, Mauritius	Bhutan, Eswatini, Kuwait, <b>Philippines</b> , Russia, Sudan, Suriname,
[p] <i>PAR<sup>w</sup></i>	Qatar, Thailand	Liberia, Mongolia, <b>Philippines</b> , Sweden, Tunisia
[p] <i>SPI<sup>w</sup></i>	Afghanistan, Bahrain, Bangladesh, Chad, Croatia, India, Madagascar, Suriname	Chile, Estonia, Jamaica, Lebanon, Trinidad and Tobago
[c] <i>Deforestation</i>	Burundi, Chad, Cota Rica, Ethiopia, Netherlands, Japan, Portugal	Georgia, Jamaica, Kenya, Latvia., <b>Philippines</b> , Slovakia, Tajikistan, The Gambia

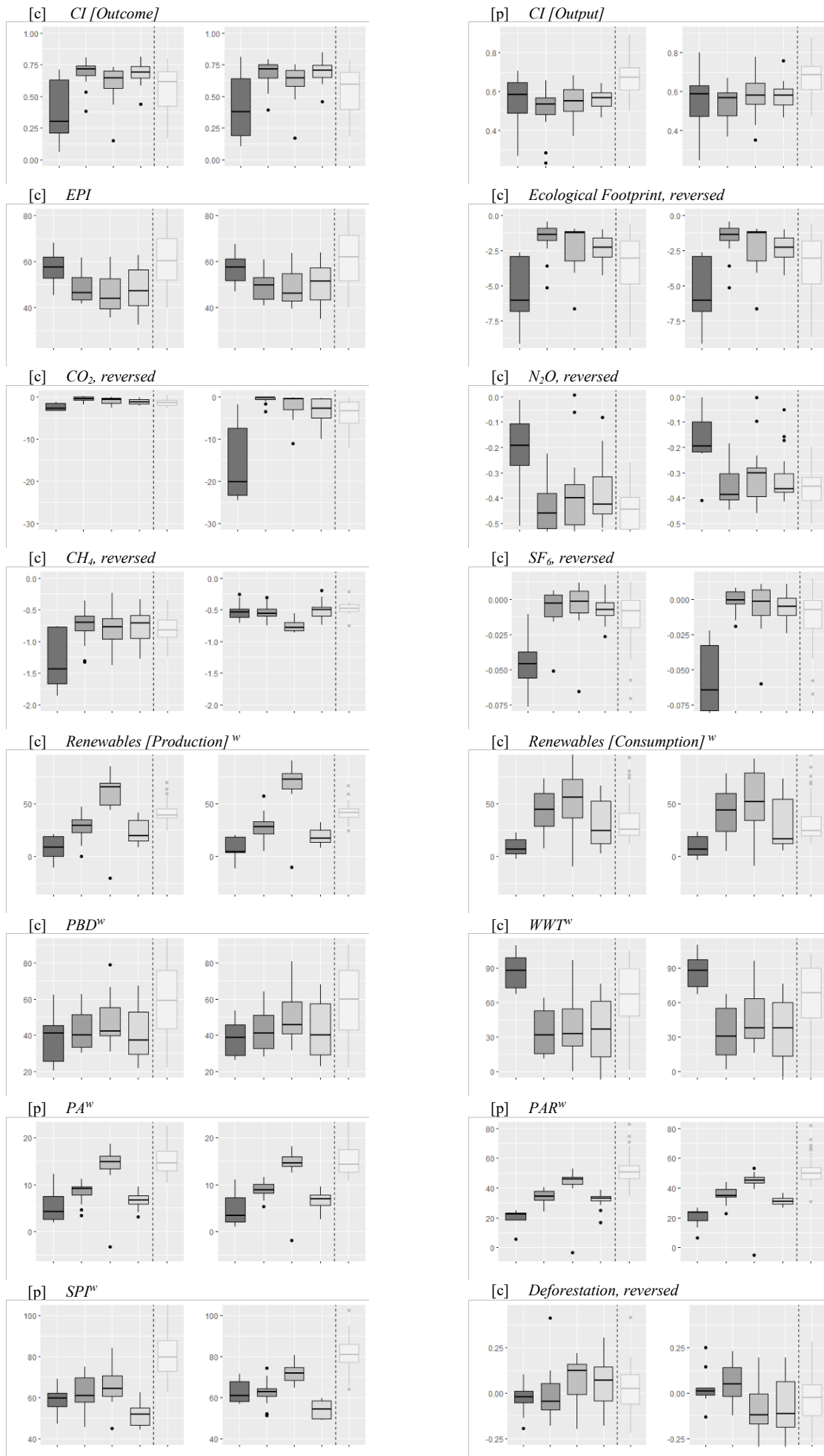
Notes:

Cases with a Cook's Distance  $D > 4/n$ . Bold are observations with a Cook's Distance  $D > 1$ .

**Figure A2-3:** Frequency of High Influence for Countries ( $D > 4/n$ )



**Figure A2-4: Fitted Values by Regime Type**



**Notes:**

For each indicator, the left panel illustrates the fitted values for the initial regression analyses (full sample). The right panel is a replication of the regression analyses without influential cases.