

Online Appendices to:

Exploring the nature of inter-country interactions in the process of ratifying international environmental agreements: the case of the Kyoto Protocol

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Online Appendix A

Table A1: Descriptive statistics on the independent variables

Variable	Mean	Std. Dev.	Min	Max
GDPpercap (in level)	6049.21	9232.55	80.62	48485.15
Democracy	2.03	0.925	0	3
EU	0.09	0.28	0	1
Education	70.23	33.89	5.18	161.78
OilExports	17.77	29.64	0	99.66
Annex_1	0.26	0.44	0	1

Notes: Units of measurement for each variables are given in Table 1 in the article.

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Table A2: List of countries

164 countries included in the estimation sample

Albania	Comoros	Hungary	Mauritius	South Africa
Algeria	Congo, Dem. Rep.	Iceland	Mexico	Spain
Angola	Congo, Rep.	India	Moldova	Sri Lanka
Argentina	Costa Rica	Indonesia	Mongolia	St. Kitts and Nevis
Armenia	Cote d'Ivoire	Iran, Islamic Rep.	Morocco	St. Lucia
Aruba	Croatia	Iraq	Mozambique	St. Vinc. & the Grenadines
Australia	Cyprus	Ireland	Namibia	Sudan
Austria	Czech Republic	Israel	Nepal	Suriname
Azerbaijan	Denmark	Italy	Netherlands	Swaziland
Bahamas, The	Djibouti	Jamaica	New Zealand	Sweden
Bahrain	Dominica	Japan	Nicaragua	Switzerland
Bangladesh	Dominican Republic	Jordan	Niger	Syrian Arab Republic
Belarus	Ecuador	Kazakhstan	Nigeria	Tanzania
Belgium	Egypt, Arab Rep.	Kenya	Norway	Thailand
Belize	El Salvador	Kiribati	Oman	Togo
Benin	Equatorial Guinea	Korea, Rep.	Pakistan	Tonga
Bhutan	Eritrea	Kuwait	Panama	Trinidad and Tobago
Bolivia	Estonia	Kyrgyz Republic	Paraguay	Tunisia
Bosnia and Herzegovina	Ethiopia	Lao PDR	Peru	Turkey
Botswana	Fiji	Latvia	Philippines	Uganda
Brazil	Finland	Lebanon	Poland	Ukraine
Brunei Darussalam	France	Lesotho	Portugal	United Arab Emirates
Bulgaria	Gabon	Liberia	Romania	United Kingdom
Burkina Faso	Gambia, The	Libya	Russian Federation	United States
Cambodia	Georgia	Lithuania	Rwanda	Uruguay
Cameroon	Germany	Luxembourg	Samoa	Uzbekistan
Canada	Ghana	Macedonia, FYR	Saudi Arabia	Vanuatu
Cape Verde	Greece	Malawi	Senegal	Venezuela, RB
Central African Republic	Grenada	Malaysia	Seychelles	Vietnam
Chad	Guatemala	Maldives	Sierra Leone	Yemen, Rep.
Chile	Guinea	Mali	Slovak Republic	Zambia
China	Guinea-Bissau	Malta	Slovenia	Zimbabwe
Colombia	Guyana	Mauritania	Solomon Islands	

Online Appendix B

Table B1: Estimation results with spatial frailty

	Proximity	Trade	CDM	Placebo
	(1)	(2)	(3)	(4)
<i>Internal determinants</i>				
GDPpercap	2.803 (1.923)	1.226 (0.885)	3.623* (2.531)	2.725 (1.890)
GDPpercap ²	0.934 (0.040)	1.002 (0.045)	0.923* (0.040)	0.936 (0.040)
Democracy	1.539*** (0.201)	1.403** (0.209)	1.549*** (0.208)	1.522*** (0.197)
Education	0.999 (0.005)	0.989* (0.006)	0.998 (0.005)	1.000 (0.005)
OilExports	0.993* (0.004)	0.986*** (0.005)	0.992* (0.004)	0.993* (0.004)
EU	1.625 (0.618)	1.091 (0.425)	1.456 (0.547)	1.680 (0.643)
Annexe_1	0.614 (0.185)	0.670 (0.223)	0.681 (0.203)	0.588* (0.178)
<i>External determinants</i>				
Number_ratifications	0.942*** (0.007)	0.896*** (0.013)	0.922*** (0.008)	0.940*** (0.007)
Spatial lag	0.992 (0.009)	1.028*** (0.009)	1.020*** (0.003)	1.000 (0.002)
<i>Parameter values</i>				
Shape parameter (γ)	1.585*** (0.137)	1.741*** (0.151)	1.867*** (0.154)	1.551*** (0.131)
Variance of the frailty distribution (θ)	2.43e-09	1.66e-08	3.10e-09	6.56e-09
Nb. Countries	164	129	164	164
Nb. Obs.	735	579	735	735

Notes: ***=significant at the 1% level, **=significant at the 5% level, *=significant at the 10% level. Standard errors associated with the reported hazard ratios and parameter values are in parentheses.

Table B2: Estimation results with Annex_1 stratification

	Proximity	Trade	CDM	Placebo
	(1)	(2)	(3)	(4)
<i>Internal determinants</i>				
GDPpercap	1.080 (0.689)	0.097 (0.720)	1.337* (0.697)	1.033 (0.696)
GDPpercap ²	-0.072* (0.043)	0.008 (0.045)	-0.085** (0.043)	-0.069 (0.044)
Democracy	0.440*** (0.130)	0.385** (0.149)	0.447*** (0.133)	0.424*** (0.129)
Education	-0.001 (0.005)	-0.011* (0.006)	-0.001 (0.005)	-0.000 (0.005)
OilExports	-0.006 (0.004)	-0.012** (0.005)	-0.007 (0.004)	-0.007* (0.004)
EU	0.596 (0.007)	0.278 (0.427)	0.524 (0.413)	0.609 (0.424)
Annexe_1 (β_s)	-0.806 (0.579)	-1.161* (0.662)	-0.866 (0.586)	-0.741 (0.573)
<i>External determinants</i>				
Number_ratifications	-0.591*** (0.007)	-0.112*** (0.015)	-0.082*** (0.008)	-0.062*** (0.007)
Spatial lag	-0.009 (0.009)	0.029*** (0.009)	0.020*** (0.003)	0.000 (0.002)
_cons	-10.368*** (2.580)	-6.634** (2.700)	-12.161*** (2.666)	-10.110*** (2.616)
<i>Parameter values</i>				
Shape parameter (γ)	1.579*** (0.138)	1.721*** (0.152)	1.857*** (0.156)	1.543*** (0.132)
(γ)	0.059 (0.090)	0.132 (0.095)	0.089 (0.091)	0.038 (0.087)
Nb. Countries	164	129	164	164
Nb. Obs.	735	579	735	735

Notes: ***=significant at the 1% level, **=significant at the 5% level, *=significant at the 10% level. Standard errors associated with the reported coefficients and parameter values are in parentheses.

Table B3: Estimation results without EU countries

	Proximity	Trade	CDM	Placebo
	(1)	(2)	(3)	(4)
<i>Internal determinants</i>				
GDPpercap	3.482 (2.811)	3.653 (4.037)	3.819* (2.961)	3.459 (2.792)
GDPpercap ²	0.922 (0.047)	0.940 (0.064)	0.920* (0.044)	0.923 (0.047)
Democracy	1.523*** (0.220)	1.390* (0.283)	1.512*** (0.212)	1.510*** (0.218)
Education	0.999 (0.006)	0.984* (0.009)	0.998 (0.006)	0.999 (0.006)
OilExports	0.994* (0.004)	0.985** (0.007)	0.992* (0.004)	0.993 (0.004)
Annexe_1	0.589 (0.201)	0.613 (0.276)	0.063 (0.205)	0.573 (0.194)
<i>External determinants</i>				
Number_ratifications	0.909*** (0.007)	0.850*** (0.009)	0.897*** (0.005)	0.907*** (0.005)
Spatial lag	0.997 (0.011)	1.029*** (0.010)	1.017*** (0.004)	1.002 (0.002)
<i>Parameter values</i>				
Shape parameter (γ)	2.041*** (0.011)	2.348*** (0.106)	2.180*** (0.106)	2.040*** (0.094)
Variance of the frailty distribution (θ)	0.250	1.009	0.144	0.258
Nb. Countries	149	114	149	149
Nb. Obs.	672	516	672	672

Notes: ***=significant at the 1% level, **=significant at the 5% level, *=significant at the 10% level. Standard errors associated with the reported hazard ratios and parameter values are in parentheses.

Table B4: Estimation results with Weibull distribution of the baseline hazard

	Proximity	Trade	CDM	Placebo
	(1)	(2)	(3)	(4)
<i>Internal determinants</i>				
GDPpercap	2.846 (1.921)	2.426 (1.787)	3.471* (2.383)	2.963 (2.027)
GDPpercap ²	0.935 (0.039)	0.956 (0.044)	0.925* (0.039)	0.932* (0.040)
Democracy	1.401*** (0.176)	1.189 (0.170)	1.445*** (0.183)	1.437*** (0.179)
Education	1.000 (0.005)	0.993 (0.006)	0.998 (0.005)	0.999 (0.005)
OiLexports	0.994 (0.004)	0.992* (0.005)	0.995 (0.004)	0.995 (0.004)
EU	1.850 (0.711)	1.293 (0.513)	1.571 (0.597)	1.676 (0.641)
Annexe_1	0.622 (0.187)	0.758 (0.233)	0.755 (0.218)	0.695 (0.200)
<i>External determinants</i>				
Number_ratifications	0.962*** (0.108)	0.936*** (0.012)	0.965*** (0.006)	0.969*** (0.005)
Spatial lag	1.014 (0.009)	1.020** (0.008)	1.007** (0.003)	1.000 (0.002)
<i>Parameter values</i>				
Shape parameter ($\ln(p)$)	1.812*** (0.108)	1.928*** (0.113)	1.855*** (0.108)	1.822*** (0.108)
Variance of the frailty distribution (θ)	4.97e-08	2.45e-08	2.12e-08	4.07e-08
Nb. Countries	164	129	164	164
Nb. Obs.	735	579	735	735

Notes: ***=significant at the 1% level, **=significant at the 5% level, *=significant at the 10% level. Standard errors associated with the reported hazard ratios and parameter values are in parentheses.