Online Appendix to Accompany

How Closing Civil Society Space Affects NGO-Government Interactions

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Table 1. Summary of the Numeric Variables

	Sample Size	Mean	St. Dev.	Min	Max
Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions (t+1)	5079	-0.257	1.280	-6.750	6.160
Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions (t)	5079	-0.257	1.280	-7	6
Core Civil Society Index	4326	0.321	0.273	0.021	0.986
CSO Entry and Exit from V-Dem	4326	-1.000	1.400	-3.610	2.960
CSO Repression from V-Dem	4326	-0.932	1.410	-3.210	3.500
CSO Participatory Environment from V-Dem	4326	-0.783	1.180	-2.920	3.010
CSO Repression from ICEWS	3960	6.950	0.199	0.531	7.380
Level of Democracy	3688	3.490	6.450	-10.000	10.000
Logged Aid to All NGOs	3710	6.200	6.680	0.000	17.800
Logged Aid to Non-NGOs	3710	15.900	7.780	0.000	24.900
De Facto Political Globalization	4529	53.200	26.600	3.600	98.800
Logged HRO Presence	3585	4.440	0.903	0.693	6.170

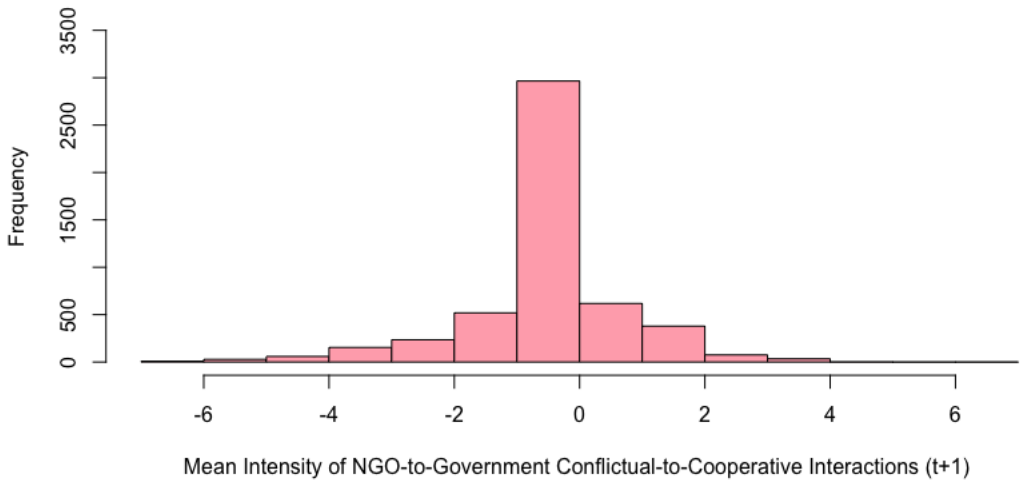

Figure 1. Histogram of Mean Intensity of NGO-to-Government Conflictual-to-Cooperation Interactions from ICEWS (t+1)

Table 2. The Outcome of Quadratic Regression Models for Determinants of NGO-to-Government Conflictual-to-Cooperative Interactions with Robust Standard Errors

	Dependent Variable			
	Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions from ICEWS (t+1)			
	Model 1	**Model 2**	**Model 3**	**Model 4**
Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)	-6.362**			
	(3.057)			
Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment) ^{2}	6.459***			
	(1.597)			
CSO Entry and Exit from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)		-9.814***		
		(2.827)		
CSO Entry and Exit from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2		5.279***		
		(1.544)		
CSO Repression from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)			-8.631***	
			(2.871)	
CSO Repression from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2			4.096**	
			(1.668)	
CSO Participatory Environment from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)				5.749**
				(2.290)
CSO Participatory Environment from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2				-2.415
				(1.702)
Level of Democracy	0.007	0.002	0.005	0.024***
	(0.008)	(0.007)	(0.007)	(0.006)
Logged Aid to All NGOs	-0.004	-0.005	-0.004	-0.004
	(0.004)	(0.004)	(0.004)	(0.004)
Logged Aid to Non-NGOs	-0.0001	-0.001	-0.0005	-0.005
	(0.005)	(0.005)	(0.005)	(0.005)
Whether an OECD Country	0.139	0.167*	0.123	0.166*
	(0.100)	(0.101)	(0.100)	(0.101)
De Facto Political Globalization	0.0002	0.001	-0.001	-0.001
	(0.002)	(0.002)	(0.002)	(0.002)
Logged HRO Presence	-0.293***	-0.320***	-0.278***	-0.221***
	(0.061)	(0.062)	(0.060)	(0.062)
Conflict Location	-0.189***	-0.182**	-0.192***	-0.255***
	(0.073)	(0.072)	(0.073)	(0.070)
Constant	1.107***	1.213***	1.095***	0.858***
	(0.220)	(0.223)	(0.215)	(0.223)

Note: *p<0.1; **p<0.05; ***p<0.01

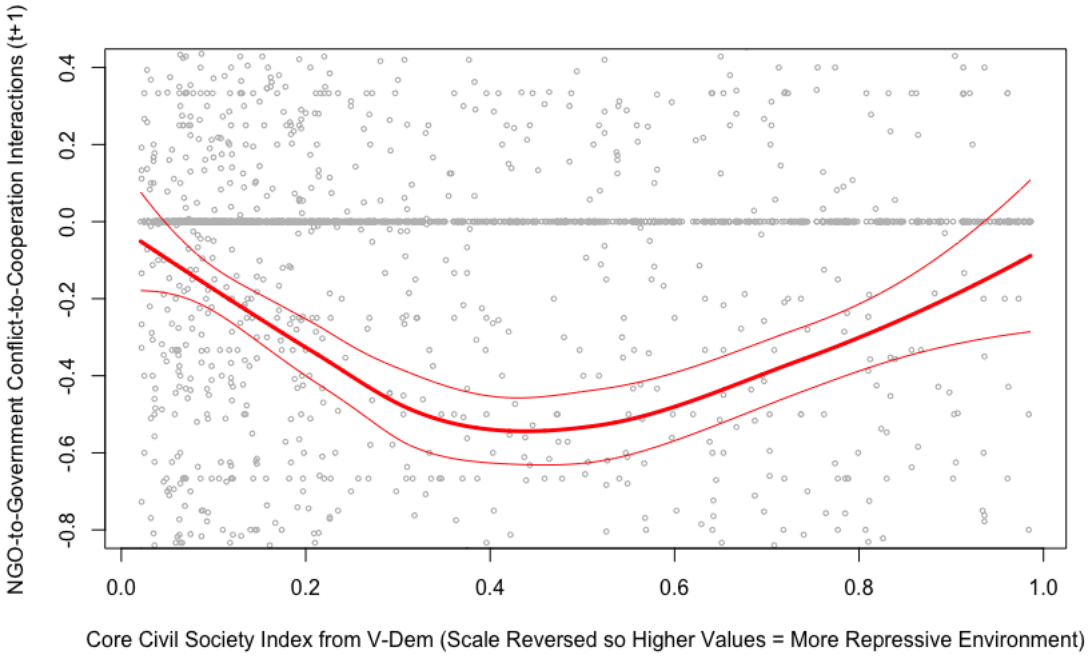

Figure 2. LOESS of NGO-to-Government Conflict-to-Cooperation Interaction (t+1) on Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)

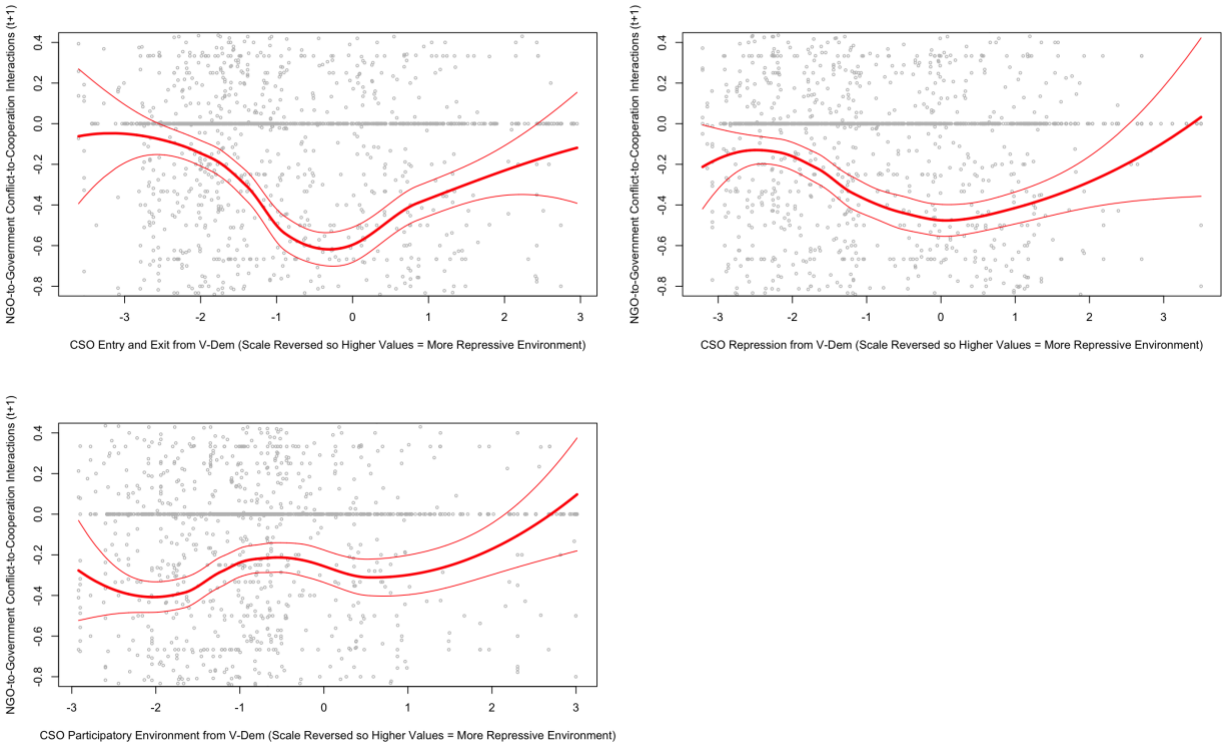

Figure 3. LOESS of NGO-to-Government Conflict-to-Cooperation Interaction (t+1) on Civil Society Repression Measures from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)

Table 3. The Outcome of Quadratic Regression Models for Determinants of NGO-to-Government Conflictual-to-Cooperative Interactions Based on the Key Independent Variable from ICEWS (Scale Reversed so Higher Values = More Repressive Environment)

	Dependent Variable
	Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions from ICEWS (t+1)
CSO Repression from ICEWS (Scale Reversed so Higher Values = More Repressive Environment)	-6.810***
	(1.670)
CSO Repression from ICEWS (Scale Reversed so Higher Values = More Repressive Environment)^2	8.690***
	(1.680)
Level of Democracy	0.017***
	(0.005)
Logged Aid to All NGOs	-0.003
	(0.005)
Logged Aid to Non-NGOs	-0.008
	(0.005)
Whether an OECD Country	0.058
	(0.113)
De Facto Political Globalization	-0.001
	(0.002)
Logged HRO Presence	-0.235***
	(0.070)
Conflict Location	-0.213***
	(0.074)
Constant	1.030***
	(0.251)
Observations	2,707
R^2	0.043
Adjusted R^2	0.040
Residual Std. Error	1.330 (df = 2697)
F Statistic	13.500*** (df = 9; 2697)
Note:	*p<0.1; **p<0.05; ***p<0.01

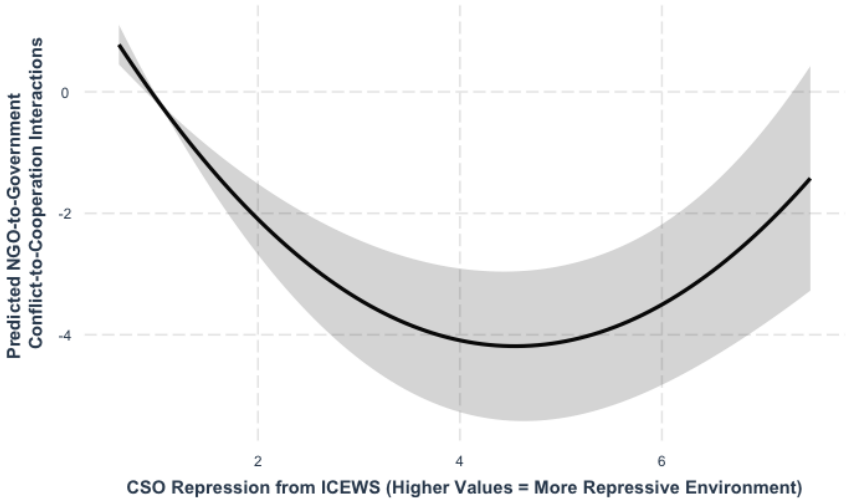

Figure 4. Predicted NGO-to-Government Conflictual-to-Cooperative Interactions as ICEWS-based measure of CSO Repression (Scale Reversed so Higher Values = More Repressive Environment) Varies, Based on Results from Table 2

Civil Society Repression is thus defined as the mean intensity of government-to-NGO conflictual-to-cooperative interactions from ICEWS, where higher scores indicate more repression after we reverse the values (as was also the case with the V-Dem civil society indicator).

As shown in **Table 2**, we find that the key independent variable's squared term (*Civil Society Repression* ^{2}) is positive and statistically significant. In other words, the quadratic relationship tested in the robustness check is consistent with the findings in the baseline model. As shown in **Figure 4**, when *Civil Society Repression* is below 2 (indicating a more repressive, less cooperative environment), the corresponding estimates of the response variable within the grey area of the 95% predicted intervals are above -2.5 and in a tighter pattern around the mean. As observed, as the civil society environment improves (with lower values for the *Civil Society Repression* variable), we first get a slightly more conflictual and then a more cooperative average NGO-to-government interaction, in line with our hypothesis.

Table 4. The Outcome of Quadratic Regression Models for Determinants of NGO-to-Government Conflictual-to-Cooperative Interactions with Lagged Dependent Variables as Additional Controls

	Dependent Variable			
	Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions from ICEWS (t+1)			
	Model 1	**Model 2**	**Model 3**	**Model 4**
Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)	-5.030*			
	(3.040)			
Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)²	4.530***			
	(1.600)			
CSO Entry and Exit from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)		-7.540***		
		(2.820)		
CSO Entry and Exit from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)²		3.560**		
		(1.550)		
CSO Repression from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)			-6.200**	
			(2.790)	
CSO Repression from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)²			2.780*	
			(1.610)	
CSO Participatory Environment from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)				3.690*
				(2.210)
CSO Participatory Environment from V-Dem(Scale Reversed so Higher Values = More Repressive Environment)²				-1.810
				(1.590)
Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions from ICEWS (t)	0.291***	0.291***	0.292***	0.293***
	(0.018)	(0.018)	(0.018)	(0.018)
Level of Democracy	0.005	0.001	0.004	0.017***
	(0.007)	(0.007)	(0.007)	(0.005)
Logged Aid to All NGOs	-0.001	-0.002	-0.001	-0.001
	(0.004)	(0.004)	(0.004)	(0.004)
Logged Aid to Non-NGOs	-0.002	-0.003	-0.003	-0.006
	(0.005)	(0.005)	(0.005)	(0.005)
Whether an OECD Country	0.100	0.121	0.088	0.118
	(0.102)	(0.102)	(0.102)	(0.102)
De Facto Political Globalization	0.0003	0.001	-0.0003	-0.0004
	(0.002)	(0.002)	(0.002)	(0.002)
Logged HRO Presence	-0.222***	-0.243***	-0.209***	-0.172***
	(0.064)	(0.064)	(0.062)	(0.066)
Conflict Location	-0.104	-0.099	-0.108	-0.152**
	(0.067)	(0.067)	(0.067)	(0.065)
Constant	0.872***	0.953***	0.854***	0.699***
	(0.234)	(0.235)	(0.228)	(0.243)
Observations	2,991	2,991	2,991	2,991
R^2	0.112	0.113	0.112	0.111
Adjusted R^2	0.109	0.110	0.109	0.108
Residual Std. Error (df = 2980)	1.260	1.260	1.260	1.260
F Statistic (df = 10; 2980)	37.700***	38.000***	37.400***	37.100***

Note: *p<0.1; **p<0.05; ***p<0.01

Table 5. The Outcome of GEE Models with AR(1) Correlation Structure for Determinants of NGO-to-Government Conflictual-to-Cooperative Interactions

	Dependent Variable			
	Mean Intensity of NGO-to-Government Conflictual-to-Cooperative Interactions from ICEWS (t+1)			
	Model 1	**Model 2**	**Model 3**	**Model 4**
Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)	-4.354			
	(3.398)			
Core Civil Society Index from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2	7.993***			
	(2.032)			
CSO Entry and Exit from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)		-6.058		
		(3.183)		
CSO Entry and Exit from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2		6.809***		
		(2.005)		
CSO Repression from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)			-9.295*	
			(4.023)	
CSO Repression from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2			5.298*	
			(2.276)	
CSO Participatory Environment from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)				5.382
				(3.427)
CSO Participatory Environment from V-Dem (Scale Reversed so Higher Values = More Repressive Environment)^2				0.325
				(2.691)
Level of Democracy	0.009	0.006	0.001	0.026*
	(0.012)	(0.012)	(0.012)	(0.010)
Logged Aid to All NGOs	-0.010	-0.010	-0.010	-0.010
	(0.006)	(0.006)	(0.006)	(0.006)
Logged Aid to Non-NGOs	0.014	0.012	0.013	0.010
	(0.007)	(0.007)	(0.008)	(0.008)
Whether an OECD Country	0.122	0.148	0.114	0.167
	(0.166)	(0.166)	(0.008)	(0.184)
De Facto Political Globalization	-0.002	-0.001	-0.003	-0.002
	(0.003)	(0.003)	(0.003)	(0.003)
Logged HRO Presence	-0.226**	-0.245**	-0.229**	-0.163*
	(0.081)	(0.083)	(0.085)	(0.079)
Conflict Location	-0.308**	-0.309**	-0.309**	-0.358**
	(0.115)	(0.112)	(0.118)	(0.112)
Constant	0.721*	0.789*	0.805*	0.447
	(0.339)	(0.350)	(0.365)	(0.324)
Observations	2,707	2,707	2,707	2,707
Estimated Correlation Parameter	0.475	0.472	0.481	0.482
	(0.08)	(0.080)	(0.078)	(0.078)

Note: *p<0.1; **p<0.05; ***p<0.01