Online Appendix for "Responding to Catastrophe: Repression Dynamics following Rapid-onset Natural Disasters"
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In this online appendix, we display the results of several robustness checks for our article. Table A1 presents the descriptive statistics of the variables in the article's analysis. Table A2 presents our main model from the article, but splits the sample according to cold war and Post-cold war samples. Tables A3-A5 present similar models to those presented in the article, but includes alternate measures of disaster impact: the lagged number of affected, the current and lagged number of killed, and the current and lagged number of those left homeless from the disasters. Tables A4 and A5 present the same models as A2 but utilize different dependent variables. Table A4 displays results using the Political Terror Scale, but with the Amnesty International report scores (with State Department scores replacing missing values), and Table A5 displays results using the Cingranelli-Richards Personal Integrity Rights scores (reversed, so that more repressive is a higher value). Finally, Table A6 displays results of a fixed effects approach, with an AR(1) specification. We should also note that because we aren't trying to interpret any graphs, the variable for Disaster Aid (% GDP) has not been multiplied by 100 to convert to whole percentages as in the main text.

Descriptive Statistics & Robustness Checks

Table A1: Descriptive Statistics

	Mean	Std. Dev.	Min.	Max.
PTS (SD reports)	2.473	1.141	1	5
PTS (AI Reports)	2.569	1.128	1	5
CIRI (reversed)	3.233	2.295	0	8
Affected†	3.760	5.256	0	19.237
Disaster Aid‡	0.0016	0.0084	0	0.258
Democracy	11.364	7.336	0	20
Population†	9.113	1.549	5.315	14.087
GDP per capita†	8.348	1.255	4.889	11.929
Demonstrations	0.584	1.629	0	26
Regime Durability†	2.557	1.2584	0	5.303
Civil Conflict	0.187	0.390	0	1
Killed†	1.385	2.122	0	12.019
Homeless†	1.672	3.619	0	17.164

Note: †=Natural Log, ‡=% GDP

Table A2: Cold War and Post-Cold War Samples
Coefficient estimates with standard errors (clustered on country) in parentheses.

	Post-Cold War	Cold War
Affected†	0.006	0.012^
	(0.006)	(0.008)
Disaster Aid‡	-0.012	3.560
	(2.806)	(3.731)
Institutional Democracy	-0.034***	-0.048***
	(0.005)	(0.007)
Population†	0.118***	0.074***
	(0.026)	(0.026)
GDP per capita†	-0.223***	-0.093***
	(0.032)	(0.033)
Anti-Government Demonstrations	0.099***	0.025
	(0.022)	(0.018)
Regime Durability†	-0.023	-0.098***
	(0.025)	(0.036)
Civil Conflict	1.019***	0.834***
	(0.119)	(0.106)
Wald X2	1225.60***	892.13***
Observations	2,925	1,813

†=Natural Log, ‡=% GDP
***=$p \leq 0.01$, **=$p \leq 0.05$, *=$p \leq 0.10$, ^p=0.134 (two-tailed)

Table A3: Alternative Measures of Disaster Severity (State Department PTS)

Affected†	0.009**					
	(0.005)					
Affected (t-1)†		0.000				
		(0.004)				
Killed†			0.002			
			(0.013)			
Killed (t-1)†				0.015^		
				(0.011)		
Homeless†					0.006	
					(0.006)	
Homeless (t-1)†						-0.006
						(0.006)
Disaster Aid‡	0.897	0.916	0.911	0.898	0.966	0.877
	(2.435)	(2.384)	(2.388)	(2.418)	(2.377)	(2.368)
Institutional Democracy	-0.039***	-0.037***	-0.037***	-0.038***	-0.038***	-0.037***
	(0.005)	(0.005)	(0.005)	(0.005)	(0.005)	(0.005)
Population†	0.091***	0.104***	0.102***	0.094***	0.100***	0.108***
	(0.021)	(0.020)	(0.020)	(0.021)	(0.019)	(0.019)
GDP per capita†	-0.167***	-0.170***	-0.170***	-0.169***	-0.169***	-0.172***
	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)
Anti-Government Demonstrations	0.051***	0.052***	0.052***	0.051***	0.052***	0.053***
	(0.013)	(0.013)	(0.013)	(0.013)	(0.013)	(0.013)
Regime Durability‡	-0.056**	-0.056**	-0.056**	-0.056**	-0.056**	-0.057**
	(0.023)	(0.023)	(0.023)	(0.023)	(0.023)	(0.024)
Civil Conflict	0.904***	0.908***	0.907***	0.903***	0.908***	0.910***
	(0.082)	(0.083)	(0.082)	(0.083)	(0.082)	(0.083)
Cold War	-0.392***	-0.399***	-0.399***	-0.397***	-0.395***	-0.403***
	(0.050)	(0.050)	(0.050)	(0.050)	(0.050)	(0.051)
Wald X2	2094.39***	2091.65***	2127.66***	2121.56***	2107.09***	2086.29***
Observations	4,738	4,738	4,738	4,738	4,738	4,738

Coefficient estimates with standard errors (clustered on country) in parentheses.
†=Natural Log, ‡=% GDP
***=$p \leq 0.01$, **=$p \leq 0.05$, *=$p \leq 0.10$, ^=0.190 (two-tailed)

Table A4: Alternative Measures of Disaster Severity (Amnesty International PTS)

Affected†	0.008^					
	(0.005)					
Affected (t-1)†		0.004				
		(0.004)				
Killed†			0.015			
			(0.013)			
Killed (t-1)†				0.024**		
				(0.012)		
Homeless†					0.008§	
					(0.006)	
Homeless (t-1)†						0.001
						(0.006)
Disaster Aid‡	1.305	1.312	1.269	1.311	1.345	1.285
	(2.332)	(2.302)	(2.326)	(2.347)	(2.269)	(2.285)
Institutional Democracy	-0.035***	-0.034***	-0.034***	-0.035***	-0.034***	-0.034***
	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)	(0.004)
Population†	0.098***	0.104***	0.099***	0.092***	0.103***	0.108***
	(0.021)	(0.021)	(0.021)	(0.021)	(0.020)	(0.019)
GDP per capita†	-0.124***	-0.126***	-0.126***	-0.125***	-0.124***	-0.127***
	(0.023)	(0.023)	(0.023)	(0.023)	(0.023)	(0.023)
Anti-Government Demonstrations	0.049***	0.050***	0.049***	0.048***	0.049***	0.050***
	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)	(0.011)
Regime Durability‡	-0.047*	-0.047*	-0.047*	-0.047*	-0.047*	-0.047*
	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)
Civil Conflict	0.798***	0.798***	0.796***	0.793***	0.800***	0.799***
	(0.079)	(0.080)	(0.079)	(0.080)	(0.079)	(0.080)
Cold War	-0.172***	-0.175***	-0.177***	-0.175***	-0.172***	-0.178***
	(0.045)	(0.045)	(0.045)	(0.045)	(0.045)	(0.044)
Wald X2	1666.04***	1668.32***	1685.97***	1639.95***	1672.80***	1679.57***
Observations	4,738	4,738	4,738	4,738	4,738	4,738

Coefficient estimates with standard errors (clustered on country) in parentheses.
†=Natural Log, ‡=% GDP
***=$p \leq 0.01$, **=$p \leq 0.05$, *=$p \leq 0.10$, ^p=0.113, §p=0.158 (two-tailed)

Table A5: Alternative Measures of Disaster Severity (CIRI Scores [reversed])

Affected†	0.008*					
	(0.005)					
Affected (t-1)†		0.010***				
		(0.004)				
Killed†			0.026**			
			(0.012)			
Killed (t-1)†				0.025**		
				(0.011)		
Homeless†					0.014***	
					(0.005)	
Homeless (t-1)†						0.006
						(0.006)
Disaster Aid‡	-4.268***	-4.251***	-4.317***	-4.324***	-4.208***	-4.253***
	(1.116)	(1.132)	(1.132)	(1.136)	(1.090)	(1.101)
Institutional Democracy	-0.035***	-0.036***	-0.036***	-0.035***	-0.035***	-0.035***
	(0.005)	(0.004)	(0.005)	(0.004)	(0.004)	(0.004)
Population†	0.116***	0.113***	0.109***	0.109***	0.116***	0.122***
	(0.019)	(0.018)	(0.019)	(0.018)	(0.018)	(0.018)
GDP per capita†	-0.157***	-0.156***	-0.158***	-0.159***	-0.156***	-0.159***
	(0.026)	(0.026)	(0.026)	(0.026)	(0.026)	(0.026)
Anti-Government Demonstrations	0.040***	0.039***	0.039***	0.039***	0.039***	0.041***
	(0.011)	(0.011)	(0.011)	(0.012)	(0.011)	(0.011)
Regime Durability‡	-0.011	-0.011	-0.011	-0.011	-0.010	-0.010
	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)	(0.024)
Civil Conflict	0.778***	0.776***	0.774***	0.773***	0.781***	0.779***
	(0.083)	(0.083)	(0.083)	(0.083)	(0.083)	(0.083)
Cold War	-0.206***	-0.205***	-0.210***	-0.211***	-0.204***	-0.209***
	(0.046)	(0.046)	(0.046)	(0.046)	(0.046)	(0.046)
Wald X2	1991.66***	1977.54***	1992.96***	2020.42***	2006.75***	2070.07***
Observations	3,886	3,885	3,886	3,885	3,886	3,885

Coefficient estimates with standard errors (clustered on country) in parentheses.
†=Natural Log, ‡=% GDP
***=$p \leq 0.01$, **=$p \leq 0.05$, *=$p \leq 0.10$ (two-tailed)

Table A6: Fixed Effects Regressions, with AR(1) Specification

Affected†	0.004**	0.003
	(0.002)	(0.003)
Disaster Aid‡	1.389	6.865**
	(1.266)	(2.924)
Institutional Democracy	-0.032***	-0.026***
	(0.004)	(0.006)
Democracy*Disaster Aid		-1.284***
		(0.450)
Population†	0.347***	0.272***
	(0.039)	(0.037)
GDP per capita†	-0.270***	-0.206***
	(0.053)	(0.073)
Anti-Government Demonstrations	0.018***	0.020***
	(0.006)	(0.006)
Regime Durability†	-0.071***	-0.072***
	(0.016)	(0.023)
Civil Conflict	0.490***	0.341***
	(0.037)	(0.052)
Cold War	-0.308***	-0.271***
	(0.035)	(0.057)
Constant	-0.599***	0.066
	(0.222)	(0.053)
F Statistic	47.30***	51.89***
df (F Statistic)	(9, 4579)	(10, 2026)
Observations	4,754	2,191
Number of panels	166	155

Coefficient estimates with standard errors (clustered on country) in parentheses.
†=Natural Log, ‡=% GDP
***=$p \leq 0.01$, **=$p \leq 0.05$, *=$p \leq 0.10$ (two-tailed)