Alliance Treaty Obligations and War Intervention

Online Appendix

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This document includes tables for all of the robustness checks mentioned in the text and footnotes. Before each table is a brief description of the robustness check. After each description in parentheses is the page number or footnote where the robustness check is mentioned in the article.

Table A1 reports results from analyses that only include potential interveners that are contiguous to one of the original war participants or are a major power (footnote 15). In other words, these analyses only include "politically relevant" potential interveners. Data on contiguity and major power status come from the EUGene data generation program (Bennett and Stam 2000).

Table A1: Multinomial Logit Regressions of War Intervention

	Model A2.1		Model A2.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	4.91**	-10.84	4.81**	-10.00
	(0.80)	(821.59)	(0.85)	(505.34)
Defensive Obligation to the Target	0.46	3.33**	0.34	3.47**
	(1.04)	(0.36)	(1.07)	(0.44)
Distance from Target			-0.61**	-0.70**
			(0.18)	(0.17)
Potential Contribution to Initiator			0.44	0.59
			(1.19)	(1.52)
Potential Contribution to Target			-0.49	1.77*
			(1.08)	(0.80)
Initiator's Probability of Winning			-0.15	1.47
			(0.84)	(1.01)
Regime Difference with Initiator			-0.00	0.06*
			(0.03)	(0.03)
Regime Difference with Target			0.11**	-0.00
			(0.03)	(0.03)
Constant	-3.40**	-3.28**	-0.01	-0.47
	(0.19)	(0.17)	(1.27)	(1.30)
Observations	1,017		995	
Log-likelihood	-316.69		-271.75	
AIC	645.39		579.50	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A2: Correlations Among Independent Variables

	1.	2.	3.	4.	5.	6.	7.	8.
1. Offensive Obligation to the Initiator	1							
2. Defensive Obligation to the Target	-0.00468	1						
3. Distance from Target	-0.0585**	-0.121**	1					
4. Potential Contribution to Initiator	0.0159	-0.00939	-0.00535	1				
5. Potential Contribution to Target	0.0141	-0.0249*	-0.0283*	0.402**	1			
6. Initiator's Probability of Winning	-0.00305	-0.000382	-0.0532**	-0.438**	0.158**	1		
7. Regime Difference with Initiator	-0.0240*	0.0381**	0.0153	0.0366**	0.0365**	0.0288*	1	
8. Regime Difference with Target	0.0141	-0.0295*	0.0294*	0.00322	-0.00815	0.0118	0.0847**	1

* $p < .05$, ** $p < .01$

Table A3 reports results from analyses that exclude the four wars where additional research was required to determine an initiator: The Boxer Rebellion of 1900, The War for Kosovo of 1999, The Invasion of Afghanistan of 2001, and The Invasion of Iraq of 2003 (footnote 17).

Table A3: Multinomial Logit Regressions of War Intervention

	Model A3.1		Model A3.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	6.93**	-8.39	6.04**	-8.81
	(0.80)	(508.70)	(0.94)	(440.96)
Defensive Obligation to the Target	1.87*	3.88**	1.11	3.70**
	(0.74)	(0.26)	(0.79)	(0.31)
Distance from Target			-1.46**	-0.76**
			(0.16)	(0.11)
Potential Contribution to Initiator			2.06	0.79
			(1.20)	(1.11)
Potential Contribution to Target			-0.08	1.87**
			(1.32)	(0.62)
Initiator's Probability of Winning			0.09	1.75**
			(0.82)	(0.66)
Regime Difference with Initiator			-0.01	0.06**
			(0.03)	(0.02)
Regime Difference with Target			0.05	-0.01
			(0.03)	(0.02)
Constant	-5.42**	-4.76**	4.80**	-0.76
	(0.18)	(0.13)	(1.24)	(0.97)
Observations	7,222		6,699	
Log-likelihood	-620.31		-502.14	
AIC	1252.63		1040.28	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A4 reports results from analyses that exclude the three wars where the target was determined by the location of the fighting: The Second Laotian War of 1968-1973, The War over Angola of 1975-1976, and The War of Bosnian Independence of 1992 (footnote 18).

Table A4: Multinomial Logit Regressions of War Intervention

	Model A4.1		Model A4.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	6.55**	-9.20	5.64**	-9.43
	(0.80)	(794.99)	(0.89)	(567.26)
Defensive Obligation to the Target	1.25	3.73**	0.90	3.28**
	(0.73)	(0.25)	(0.75)	(0.29)
Distance from Target			-1.14**	-0.75**
			(0.13)	(0.11)
Potential Contribution to Initiator			1.72	0.08
			(1.09)	(1.04)
Potential Contribution to Target			0.10	2.70**
			(1.03)	(0.61)
Initiator's Probability of Winning			0.93	0.68
			(0.64)	(0.58)
Regime Difference with Initiator			-0.03	0.05*
			(0.02)	(0.02)
Regime Difference with Target			0.10**	0.00
			(0.02)	(0.02)
Constant	-5.04**	-4.85**	2.15*	-0.22
	(0.15)	(0.13)	(1.06)	(0.97)
Observations	7,371		6,789	
Log-likelihood	-687.44		-572.65	
AIC	1386.88		1181.29	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A5 reports results from analyses that exclude the additional panel of observations for WWII after Poland loses independence (footnote 19).

Table A5: Multinomial Logit Regressions of War Intervention

	Model A5.1		Model A5.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	7.16**	-7.40	5.94**	-9.12
	(1.07)	(422.30)	(1.10)	(523.46)
Defensive Obligation to the Target	2.05**	3.21**	1.43*	2.44**
	(0.61)	(0.32)	(0.65)	(0.36)
Distance from Target			-1.17**	-0.88**
			(0.13)	(0.11)
Potential Contribution to Initiator			2.39*	0.70
			(1.14)	(1.08)
Potential Contribution to Target			-0.37	2.34**
			(1.00)	(0.57)
Initiator's Probability of Winning			1.56*	1.26*
			(0.68)	(0.62)
Regime Difference with Initiator			-0.03	0.04*
			(0.02)	(0.02)
Regime Difference with Target			0.08**	-0.00
			(0.02)	(0.02)
Constant	-5.08**	-4.70**	2.14*	0.54
	(0.15)	(0.12)	(1.06)	(0.94)
Observations	7,766		7,146	
Log-likelihood	-731.96		-600.71	
AIC	1475.92		1237.41	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A6 reports results from analyses that exclude the five wars with the most interveners: WWII, The Korean War, WWI, The Gulf War, and The Seven Weeks War (footnote 21).

Table A6: Multinomial Logit Regressions of War Intervention

	Model A6.1		Model A6.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	6.59**	-8.74	5.39**	-6.93
	(1.13)	(1802.08)	(1.16)	(427.29)
Defensive Obligation to the Target	1.77*	4.52**	1.33	3.75**
	(0.74)	(0.42)	(0.77)	(0.55)
Distance from Target			-1.16**	-1.52**
			(0.14)	(0.23)
Potential Contribution to Initiator			1.82	0.67
			(1.15)	(2.14)
Potential Contribution to Target			-0.13	4.39**
			(1.08)	(1.06)
Initiator's Probability of Winning			1.06	1.00
			(0.68)	(1.23)
Regime Difference with Initiator			-0.03	-0.00
			(0.03)	(0.04)
Regime Difference with Target			0.10**	-0.07
			(0.03)	(0.05)
Constant	-5.20**	-6.25**	2.09	3.76*
	(0.16)	(0.27)	(1.12)	(1.72)
Observations	7,386		6,797	
Log-likelihood	-392.37		-309.40	
AIC	796.75		654.80	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A7 reports the results from models that control for the potential intervener's level of trade dependence with the initiator and the target (footnotes 24 & 31). Trade dependence data come from Oneal and Russett's trade data that is available from the EUGene data generation program (Bennett and Stam 2000). For observations that are missing trade dependence data, the previous year's value is used.

Table A7: Multinomial Logit Regressions of War Intervention

	Model A7.1		Model A7.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	6.60**	-10.45	6.27**	-12.07
	(1.14)	(2142.84)	(1.41)	(5054.13)
Defensive Obligation to the Target	-11.54	3.55**	-11.66	3.41**
	(494.47)	(0.33)	(460.08)	(0.38)
Trade Dependence on Initiator	18.45**	7.29	26.45**	3.26
	(4.48)	(7.99)	(5.52)	(9.84)
Trade Dependence on Target	10.05	10.69**	3.22	10.10**
	(5.71)	(3.86)	(8.75)	(3.65)
Distance from Target			-1.28**	-0.57**
			(0.18)	(0.14)
Potential Contribution to Initiator			1.92	3.01*
			(1.40)	(1.30)
Potential Contribution to Target			0.69	0.45
			(1.57)	(0.96)
Initiator's Probability of Winning			-0.30	2.30**
			(0.98)	(0.89)
Regime Difference with Initiator			0.02	0.05*
			(0.03)	(0.02)
Regime Difference with Target			0.09*	-0.01
			(0.03)	(0.03)
Constant	-5.37**	-4.96**	3.13*	-2.55*
	(0.22)	(0.18)	(1.46)	(1.27)
Observations	4,578		4,281	
Log-likelihood	-380.95		-326.59	
AIC	781.91		697.18	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A8 reports compares the results for the model without control variables when all observations are included and when only those observations where there is data on all of the control variables are included (footnote 29).

Table A8: Multinomial Logit Regressions of War Intervention

	Model A8.1		Model A8.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	6.59**	-8.24	6.53**	-7.63
	(0.80)	(488.83)	(0.80)	(355.56)
Defensive Obligation to the Target	1.29	3.72**	1.25	3.67**
	(0.73)	(0.25)	(0.73)	(0.25)
Constant	-5.08**	-4.84**	-5.02**	-4.81**
	(0.15)	(0.13)	(0.15)	(0.13)
Observations	7,829		7,207	
Log-likelihood	-718.34		-687.93	
AIC	1448.67		1387.85	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A9 reports the results from a model that controls for joint religion between the potential intervener and the war participants and a model that controls for joint language between the potential intervener and the war participants (footnote 31). Data for these variables come from Lai and Reiter (2000).

Table A9: Multinomial Logit Regressions of War Intervention

	Model A9.1		Model A9.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	5.80**	-9.18	5.85**	-8.75
	(0.91)	(553.79)	(0.91)	(448.25)
Defensive Obligation to the Target	0.85	3.71**	1.22	3.74**
	(0.79)	(0.32)	(0.79)	(0.32)
Distance from Target	-1.32**	-0.73**	-1.25**	-0.65**
	(0.15)	(0.11)	(0.15)	(0.11)
Potential Contribution to Initiator	1.77	0.88	1.76	0.78
	(1.11)	(1.13)	(1.12)	(1.15)
Potential Contribution to Target	0.15	1.81**	-0.03	1.95**
	(1.18)	(0.62)	(1.22)	(0.63)
Initiator's Probability of Winning	-0.23	1.55*	-0.25	1.55*
	(0.75)	(0.68)	(0.76)	(0.70)
Regime Difference with Initiator	0.01	0.06**	0.03	0.07**
	(0.03)	(0.02)	(0.03)	(0.02)
Regime Difference with Target	0.05	-0.01	0.05	-0.00
	(0.03)	(0.02)	(0.03)	(0.02)
Joint Religion with Initiator	-1.02	0.58*		
	(0.53)	(0.30)		
Joint Religion with Target	0.53	-0.25		
	(0.43)	(0.32)		
Joint Language with Initiator			1.16*	1.12**
			(0.47)	(0.35)
Joint Language with Target			-0.73	0.52
			(0.57)	(0.31)
Constant	4.21**	-0.94	3.46**	-1.90
	(1.24)	(1.00)	(1.25)	(1.02)
Observations	6,109		6,109	
Log-likelihood	-516.72		-509.63	
AIC	1077.44		1063.26	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Table A10 reports the results from a model that controls for joint ethnicity between the potential intervener and the war participants and a model that controls for joint religion, joint language, and joint ethnicity between the potential intervener and the war participants (footnote 31). Data for these variables come from Lai and Reiter (2000).

Table A10: Multinomial Logit Regressions of War Intervention

	Model A10.1		Model A10.2	
	Join Initiator	Join Target	Join Initiator	Join Target
Offensive Obligation to the Initiator	5.90**	-9.60	5.83**	-8.44
	(0.91)	(603.59)	(0.93)	(439.98)
Defensive Obligation to the Target	1.09	3.68**	1.11	3.89**
	(0.79)	(0.32)	(0.80)	(0.33)
Distance from Target	-1.27**	-0.74**	-1.25**	-0.70**
	(0.15)	(0.11)	(0.16)	(0.11)
Potential Contribution to Initiator	1.69	0.69	1.74	0.81
	(1.11)	(1.13)	(1.13)	(1.16)
Potential Contribution to Target	0.17	1.99**	0.20	1.87**
	(1.21)	(0.62)	(1.24)	(0.65)
Initiator's Probability of Winning	-0.34	1.41*	-0.30	1.45*
	(0.76)	(0.68)	(0.76)	(0.69)
Regime Difference with Initiator	0.02	0.06**	0.03	0.07**
	(0.03)	(0.02)	(0.03)	(0.02)
Regime Difference with Target	0.05	-0.01	0.04	-0.00
	(0.03)	(0.02)	(0.03)	(0.02)
Joint Ethnicity with Initiator	0.86	1.01**	0.20	0.29
	(0.50)	(0.38)	(0.80)	(0.45)
Joint Ethnicity with Target	-0.53	-0.47	0.10	-1.23*
	(0.58)	(0.42)	(0.83)	(0.50)
Joint Religion with Initiator			-1.49*	0.30
			(0.58)	(0.32)
Joint Religion with Target			0.75	-0.39
			(0.46)	(0.34)
Joint Language with Initiator			1.46	0.95*
			(0.75)	(0.41)
Joint Language with Target			-0.91	1.20**
			(0.82)	(0.38)
Constant	3.68**	-0.82	3.54**	-1.45
	(1.23)	(1.01)	(1.32)	(1.03)
Observations	6,109		6,109	
Log-likelihood	-516.58		-500.82	
AIC	1077.15		1061.64	

Standard errors in parentheses

* $p < .05$, ** $p < .01$

Online Appendix References

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Lai, Brian and Dan Reiter. 2000. "Democracy, Political Similarity, and International Alliances, 1816-1992." *Journal of Conflict Resolution* 44(2):203–227.