

## **FEAR, HOPE, AND WAR: Positive Inducements Help Win Wars**

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*[Supplemental Tables]*

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#1. [Summary Statistics: Baseline Overall Compliance Treatment Variables](#)

Overall Variable	#Obs.	Mean	Std.Dev.	Min (#)	Max (#)
a_mf1scaled	222	-.2693944	.106045	-.6597222	-.1111111
b_mf1scaled	222	-.2693944	.106045	-.6597222	-.1111111
a_mf1scaled_rel	222	0	.1176807	-.4166667	.4166667
a_mf2scaled	222	-.1339308	.105154	-.5581597	-.0251736
b_mf2scaled	222	-.1339308	.105154	-.5581597	-.0251736
a_mf2scaled_rel	222	0	.1174869	-.4270833	.4270833
a_mf3scaled	222	-.0846071	.1012404	-.5169813	-.0077582
b_mf3scaled	222	-.0846071	.1012404	-.5169813	-.0077582
a_mf3scaled_rel	222	0	.1144303	-.40625	.40625
a_mf4scaled	222	-.063201	.0980283	-.4929233	-.0026415
b_mf4scaled	222	-.063201	.0980283	-.4929233	-.0026415
a_mf4scaled_rel	222	0	.1123061	-.3859049	.3859049
a_directbinary	222	.8018018	.3995432	0 (44)	1 (178)
b_directbinary	222	.8018018	.3995432	0 (44)	1 (178)
a_directbinary_rel	222	0	.5033822	-1 (28)	1 (28)
a_direct_4m4ftally	222	.6531532	.8246562	-3 (3)	1 (178)
a_direct_4m4ftally	222	.6531532	.8246562	-3 (3)	1 (178)
a_direct_4m4ftally_rel	222	0	.9747955	-3 (7)	3 (7)
a_wide1mfscald	222	-.3199137	.1546968	-.8055556	-.1111111
b_wide1mfscald	222	-.3199137	.1546968	-.8055556	-.1111111
a_wide1mfscald_rel	222	0	.2112323	-.5625	.5625
a_widemf2scaled	222	-.179666	.1582884	-.7118056	-.0251736
b_widemf2scaled	222	-.179666	.1582884	-.7118056	-.0251736
a_widemf2scaled_rel	222	0	.2112323	-.5625	.5625
a_widemf3scaled	222	-.1260554	.1553405	-.6610243	-.0077582
b_widemf3scaled	222	-.1260554	.1553405	-.6610243	-.0077582
a_widemf3scaled_rel	222	0	.216092	-.598877	.598877
a_widemf4scaled	222	-.102021	.1524536	-.6302626	-.0026415
b_widemf4scaled	222	-.102021	.1524536	-.6302626	-.0026415
a_widemf4scaled_rel	222	0	.2126023	-.5898387	.5898387
a_widetruebinary	222	.7567568	.4300103	0 (54)	1 (168)
b_widetruebinary	222	.7567568	.4300103	0 (54)	1 (168)
a_widetuebinary_rel	222	0	.5864225	-1 (38)	1 (38)
a_wide_4m4ftally	222	-.0495495	2.876378	-18 (2)	1 (168)
a_wide_4m4ftally	222	-.0495495	2.876378	-18 (2)	1 (168)
a_wide_4m4ftally_rel	222	0	4.152086	-19 (2)	19 (2)

#2. [Summary Statistics: Outcomes and Compliance](#)

		A's Direct Binary Compliance	
		0	1
Strategic Outcomes	Wins	19	85
	Draws	2	12
	Losses	23	81
	Totals	44	178

		A's Direct Binary Compliance	
		0	1
Grand Strategic Outcomes	Wins	13	87
	Draws	5	17
	Losses	26	74
	Totals	44	178

		A's Direct Binary Relative Compliance		
		-1	0	1
Strategic Outcomes	Wins	11	78	15
	Draws	2	10	2
	Losses	15	78	11
	Totals	28	166	28

		A's Direct Binary Relative Compliance		
		-1	0	1
Grand Strategic Outcomes	Wins	6	75	19
	Draws	3	16	3
	Losses	19	75	6
	Totals	28	166	28

		A's Wide True Binary Compliance	
		0	1
Grand Strategic Outcomes	Wins	17	83
	Draws	5	17
	Losses	32	68
	Totals	54	168

		A's Wide True Binary Rel. Compliance		
		-1	0	1
Grand Strategic Outcomes	Wins	10	65	25
	Draws	3	16	3
	Losses	25	65	10
	Totals	38	146	38

#3. [Summary Statistics: Control Variables](#)

<b>Variable</b>	<b>#Obs.</b>	<b>Mean</b>	<b>Std.Dev.</b>	<b>Min</b>	<b>Max</b>
UrbPop plus MilExpend Rel.	222	0	42.4587	-331.6	331.6
TotPop plus Energy Rel.	222	0	55.54669	-402.3166	402.3166
Democracy7 Prewar Year Rel.	222	0	.6990621	-1 (54)	1 (54)
Democ7 w/Rec. Ratified Rel.	222	0	.4499409	-1 (3)	1 (3)
Prewar Dom. Win. Coal. Rel.	222	0	.4423815	-1 (3)	1 (3)
Rec. War Plus Win/Draw Rel.	222	-.0045045	1.103256	-2 (28)	2 (27)*
War Begins After 1945	222	.3063063	.4620002	0 (154)	1 (68)
Prior 4M4F/Civ. Targeting Rel.	222	0	.6016568	-1 (40)	1 (40)
Inwar Prior Viol. + Suffer Rel.	222	0	13.24124	-55	55
Inwar Allied Combatants Rel.	222	0	1.728128	-6 (1)	6 (1)
Initiator of Dyadic Front Rel.	222	0	.8822021	-1 (86)	1 (86)
Governmental Revisionist Rel.	222	0	.9272155	-2 (6)	2 (6)
Territorial Revisionist Rel.	222	0	1.461419	-2 (53)	2 (53)
Policy Revisionist Rel.	222	0	1.076276	-2 (17)	2 (17)
WWI	222	.2522523	.4352867	0 (166)	1 (56)
WWII	222	.1621622	.3694325	0 (186)	1 (36)
WW	222	.4144144	.4937339	1 (130)	1 (92)
<p>*= The Soviet Union in the Russo-Finnish War is currently coded as a 1, but this is an error. It should be 2, so the Max here will be 2 (28). I will correct this in my next draft.</p>					

#4. [Table 1: Baseline Direct Strategic Models 1, 2, and 3](#)

Overall Compliance&Controls	Strategic Outcome Models (Morrow 2007 Based)		
	1. A Only	2. B Only	3. A Relative
A's Direct (M*F) <sup>2</sup>	5.332 (1.534)***		
B's Direct (M*F) <sup>2</sup>		-6.390 (1.846)***	
A's Direct (M*F) <sup>2</sup> Relative			20.407 (2.649)***
UrbPop plus MilExpend Rel.	.166 (.028)***	.171 (.033)***	.310 (.058)***
TotPop plus Energy Rel.	-.111 (.021)***	-.116 (.026)***	-.215 (.039)***
Democracy7 Prewar Year Rel.	4.512 (1.672)***	4.467 (1.601)**	7.615 (2.023)***
Democ7 w/Rec. Ratified Rel.	-8.965 (3.791)*	-8.937 (3.920)*	-14.731 (3.316)***
Prewar Dom. Win. Coal. Rel.	9.859 (2.263)***	10.124 (2.157)***	14.860 (2.820)***
Rec. War Plus Win/Draw Rel.	-.687 (.466)	-.730 (.461)	-1.637 (.533)**
War Begins After 1945	1.472 (.529)**	1.521 (.435)***	2.067 (.580)***
Prior 4M4F/Civ. Targeting Rel.	1.750 (.544)***	1.899 (.531)***	3.546 (.789)***
Inwar Prior Viol. + Suffer Rel.	-.081 (.028)**	-.086 (.028)**	-.142 (.044)***
Inwar Allied Combatants Rel.	.382 (.147)**	.381 (.147)**	.430 (.134)***
Initiator of Dyadic Front Rel.	.815 (.386)*	.830 (.355)*	1.761 (.406)***
Governmental Revisionist Rel.	4.999 (1.287)***	5.638 (1.322)***	6.496 (1.636)***
Territorial Revisionist Rel.	-.475 (.619)	-.623 (.608)	-.114 (.665)
Policy Revisionist Rel.	-3.544 (.791)***	-3.804 (.784)***	-5.230 (1.073)***
Constant	.730 (.193)***	-.874 (.217)***	-.000 (.000)
Log Pseudolikelihood	-58.483	-57.473	-43.424
Pseudo R2	.619	.625	.717
N	222	222	222

Notes: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Tests are two-tailed logit of wins or draws (1) versus losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.

#5. [Table 2: Baseline Direct Grand Strategic Models 1, 2, and 3](#)

Overall Compliance&Controls	Grand Strategic Outcome Models (COWv4 Based)		
	1. A Only	2. B Only	3. A Relative
A's Direct (M*F) <sup>2</sup>	4.873 ( 1.913)*		
B's Direct (M*F) <sup>2</sup>		-8.727 (1.778)***	
A's Direct (M*F) <sup>2</sup> Relative			15.292 (3.074)***
UrbPop plus MilExpend Rel.	.106 (.031)**	.106 (.035)**	.156 (.037)***
TotPop plus Energy Rel.	-.076 (.020)***	-.076 (.024)**	-.115 (.024)***
Democracy7 Prewar Year Rel.	2.922 (1.307)*	2.591 (1.191)*	3.490 (1.610)*
Democ7 w/Rec. Ratified Rel.	-5.573 (2.474)*	-5.207 (2.429)*	-6.945 (3.115)*
Prewar Dom. Win. Coal. Rel.	7.112 (1.760)***	7.557 (1.777)***	9.110 (1.963)***
Rec. War Plus Win/Draw Rel.	-.625 (.521)	-.680 (.518)	-1.637 (.533)**
War Begins After 1945	1.145 (.582)*	1.057 (.534)*	1.352 (.620)*
Prior 4M4F/Civ. Targeting Rel.	1.026 (.693)	1.250 (.760)	2.006 (.880)*
Inwar Prior Viol. + Suffer Rel.	-.194 (.034)***	-.206 (.035)***	-.227 (.032)***
Inwar Allied Combatants Rel.	1.024 (.175)***	1.079 (.176)***	.430 (.134)***
Initiator of Dyadic Front Rel.	.905 (.412)*	.921 (.404)*	1.549 (.480)**
Governmental Revisionist Rel.	4.932 (.950)***	5.691 (1.243)***	5.672 (1.216)***
Territorial Revisionist Rel.	-1.504 (.596)*	-1.648 (.697)*	-1.282 (.652)*
Policy Revisionist Rel.	-2.740 (.769)***	-3.056 (.795)***	-3.627 (.957)***
Constant	.945 (.200)***	-.755 (.289)**	-.365 (.257)
Log Pseudolikelihood	-54.436	-52.231	-45.544
Pseudo R2	.644	.658	.702
N	222	222	222

Notes: <sup>†</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.

#6. [Table 2: Baseline Wide Grand Strategic Models 4, 5, and 6](#)

**TABLE 2. Baseline Overall Wide Compliance Grand Strategic Models**

Overall Compliance&Controls	Grand Strategic Outcome Models (COWv4 Based)		
	1. A Only	2. B Only	3. A Relative
A's Wide (M*F) <sup>2</sup>	5.963 ( 1.893)**		
B's Wide (M*F) <sup>2</sup>		-10.201(1.325)***	
A's Wide (M*F) <sup>2</sup> Relative			15.708 (6.355)*
UrbPop plus MilExpend Rel.	.117 (.032)**	.116 (.034)**	.190 (.040)***
TotPop plus Energy Rel.	-.083 (.021)***	-.082 (.023)***	-.137 (.026)***
Democracy7 Prewar Year Rel.	3.526 (1.495)*	3.169 (1.441)*	7.179 (2.667)**
Democ7 w/Rec. Ratified Rel.	-6.938 (2.637)**	-6.639 (2.789)*	-15.104 (5.629)**
Prewar Dom. Win. Coal. Rel.	7.953 (1.636)***	9.001 (1.874)***	13.389 (3.391)***
Rec. War Plus Win/Draw Rel.	-.609 (.490)	-.773 (.513)	-1.148 (.846)
War Begins After 1945	.835 (.641)	1.519 (.563)**	1.482 (1.071)
Prior 4M4F/Civ. Targeting Rel.	1.038 (.705)	1.470 (.853) <sup>+</sup>	2.504 (1.768)
Inwar Prior Viol. + Suffer Rel.	-.193 (.033)***	-.228 (.045)***	-.287 (.104)**
Inwar Allied Combatants Rel.	1.070 (.191)***	1.169 (.235)***	1.433 (.539)**
Initiator of Dyadic Front Rel.	1.051 (.388)**	1.142 (.393)**	2.052 (.778)**
Governmental Revisionist Rel.	5.251 (.933)***	6.577 (1.328)***	6.869 (1.354)***
Territorial Revisionist Rel.	-1.448 (.582)*	-1.711 (.705)*	-1.132 (.796)
Policy Revisionist Rel.	-3.050 (.733)***	-3.674 (.834)***	-4.739 (.946)***
Constant	1.466 (.311)***	-1.384 (.272)**	.564 (.302) <sup>+</sup>
Log Pseudolikelihood	-50.850	-45.673	-32.809
Pseudo R2	.667	.701	.785
N	222	222	222

Notes: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.

#7. [Additional Overall Baseline Tests: World Wars](#)

<b>Additional Overall Baseline Tests: World Wars As Dummy Variables</b>			
	Strategic Outcomes (Morrow 2007 Based)		
Overall Compliance	1a-c. WWI Dummy	2a-c. WWII Dummy	3a-c. 2 Dummies
a. A's Direct (M*F) <sup>2</sup>	5.344(1.559)**	5.628(1.541)***	5.834 (1.661)***
b. B's Direct (M*F) <sup>2</sup>	-6.405 (1.891)**	-6.746(1.816)***	-6.999 (1.974)***
c. A's Dir. (M*F) <sup>2</sup> Rel.	20.407(2.649)***	20.407(2.649)***	20.407(2.649)***
	Grand Strategic Outcome Models (COWv4 Based)		
	4a-c. WWI Dummy	5a-c. WWII Dummy	6a-c. 2 Dummies
a. A's Direct (M*F) <sup>2</sup>	5.774 (2.162)**	4.793 (1.946)*	5.880 (2.198)**
b. B's Direct (M*F) <sup>2</sup>	-8.647(1.707)***	-9.051(1.788)***	-8.837(1.724)***
c. A's Dir. (M*F) <sup>2</sup> Rel.	15.907(3.345)***	15.342(3.100)***	15.907(3.346)***
	7a-c. WWI Dummy	8a-c. WWII Dummy	9a-c. 2 Dummies
a. A's Wide (M*F) <sup>2</sup>	7.597(1.921)***	6.453(2.941)*	10.123 (3.743)**
b. B's Wide (M*F) <sup>2</sup>	-9.990(1.346)***	-14.568(2.206)***	-14.783(2.275)***
c. A's W. (M*F) <sup>2</sup> Rel.	16.476(6.203)**	15.689(6.331)*	16.476(6.203)**

Notes: <sup>†</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. N=222. Tests are two-tailed logit of wins or draws (1) versus losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.

<b>Additional Overall Baseline Tests: World Wars As Dropped Rows</b>			
	Strategic Outcomes (Morrow 2007 Based)		
Overall Compliance	1a-c. Drop WWI N=166	2a-c. Drop WWII N=186	3a-c. Drop Both N=130
a. A's Direct (M*F) <sup>2</sup>	2.638 (1.992)	6.349 (2.208)**	9.814 (9.848)
b. B's Direct (M*F) <sup>2</sup>	-6.301(5.578)	-9.009(1.997)***	-28.460 (12.890)*
c. A's Dir. (M*F) <sup>2</sup> Rel.	24.806 (8.238)**	24.338 (5.100)***	9487.208 (Const)
	Grand Strategic Outcome Models (COWv4 Based)		
	4a-c. Drop WWI N=166	5a-c. Drop WWII N=186	6a-c. Drop Both N=130
a. A's Direct (M*F) <sup>2</sup>	8.747(3.330)**	4.889 (2.384)*	9.814 (9.848)
b. B's Direct (M*F) <sup>2</sup>	-12.944(3.964)**	-10.771 (2.501)***	-28.460 (12.890)*
c. A's Dir. (M*F) <sup>2</sup> Rel.	40.476 (12.546)**	21.188(4.029)***	9487.208 (Const)
	7a-c. Drop WWI N=166	8a-c. Drop WWII N=186	9a-c. Drop Both N=130
a. A's Wide (M*F) <sup>2</sup>	12.009(3.018)**	3.719 (1.383)**	9.967 (9.748)
b. B's Wide (M*F) <sup>2</sup>	-13.751(4.548)**	-11.065 (2.137)***	-26.779 (12.669)*
c. A's W. (M*F) <sup>2</sup> Rel.	3527.681(Const)	11.872 (4.304)**	8147.745 (Const)

Notes: <sup>†</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. N varies by model title. Tests are two-tailed logit of wins or draws (1) versus losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.



#8. [Additional Baseline Tests: Regrouping Outcomes](#)

<b>Additional Overall Baseline Tests: Regrouping Outcomes</b>			
	Strategic Outcomes (Morrow 2007 Based)		
Overall Compliance	1a-c. W_DL	2a-c. Ordered	3a-c. NoD'sN=208
a. A's Direct (M*F) <sup>2</sup>	6.389 (1.847)**	5.345(1.478)***	5.979 (1.362)***
b. B's Direct (M*F) <sup>2</sup>	-5.333 (1.533)**	-5.346(1.477)***	-5.979(1.363)***
c. A's Dir. (M*F) <sup>2</sup> Rel.	20.407(2.649)***	19.606(3.079)***	23.439(5.378)***
	Grand Strategic Outcome Models (COWv4 Based)		
	4a-c. W_DL	5a-c. Ordered	6a-c. NoD'sN=200
a. A's Direct (M*F) <sup>2</sup>	8.929 (1.861)***	5.408 (1.160)***	9.3225(1.904)***
b. B's Direct (M*F) <sup>2</sup>	-4.684 (1.841)*	-5.425(1.169)***	-9.251(1.873)***
c. A's Dir. (M*F) <sup>2</sup> Rel.	14.984(3.103)***	14.441(3.074)***	32.640(8.381)***
	7a-c. W_DL	8a-c. Ordered	9a-c. NoD'sN=200
a. A's Wide (M*F) <sup>2</sup>	11.406(1.431)***	6.881(1.315)***	11.736(2.023)***
b. B's Wide (M*F) <sup>2</sup>	-5.660 (1.645)**	-6.915(1.351)***	-11.791(1.972)***
c. A's W. (M*F) <sup>2</sup> Rel.	15.779 (6.324)*	14.156(5.537)*	843.716 (Const)

Notes: †p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. N=222 for W\_DL and Ordered. N for No Draws depends on model. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Wide Grand Strategic No Draws: Completely Predicts 100 wins and 100 losses. Generated in Stata 12.0.

#9. [Additional Baseline Tests: Remodeling Errors](#)

<b>Additional Overall Baseline Tests: Remodeling Errors</b>			
	Strategic Outcomes (Morrow 2007 Based)		
Overall Compliance	1a-c. Regular	2a-c. Robust	3a-c. Cluster Dyad
a. A's Direct (M*F) <sup>2</sup>	5.332(2.483)*	5.332(2.446)*	5.332(1.850)**
b. B's Direct (M*F) <sup>2</sup>	-6.390(2.569)*	-6.390(2.527)*	-6.390(1.867)**
c. A's Dir. (M*F) <sup>2</sup> Rel.	20.407(4.851)***	20.407(3.175)***	20.407(4.351)***
	Grand Strategic Outcome Models (COWv4 Based)		
	4a-c. Regular	5a-c. Robust	6a-c. Cluster Dyad
a. A's Direct (M*F) <sup>2</sup>	4.873(2.805) <sup>+</sup>	4.873(2.491) <sup>+</sup>	4.873(2.051)*
b. B's Direct (M*F) <sup>2</sup>	-8.727 (3.596)*	-8.727(3.369)*	-8.727(2.363)***
c. A's Dir. (M*F) <sup>2</sup> Rel.	15.292(4.411)**	15.292(3.447)***	15.292(4.427)**
	7a-c. Regular	8a-c. Robust	9a-c. Cluster Dyad
a. A's Wide (M*F) <sup>2</sup>	5.963 (1.982)**	5.963 (2.06)**	5.963(2.071)**
b. B's Wide (M*F) <sup>2</sup>	-10.201 (2.889)***	-10.201(2.558)***	-10.201(1.814)***
c. A's W. (M*F) <sup>2</sup> Rel.	15.708 (3.743)***	15.708(4.756)**	15.708(5.043)**

Notes: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. N=222. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.

#10. [Additional Baseline Tests: Remodeling Exponents](#)

<b>Additional Overall Baseline Tests: Remodeling Exponents</b>			
	Strategic Outcomes (Morrow 2007 Based)		
Overall Compliance	1a-c. No Exponent	2a-c. Expon.Three	3a-c. Expon.Four
a. A's Direct (M*F) <sup>?</sup>	5.097(1.738)**	5.645 (1.565)***	5.936 (1.645)***
b. B's Direct (M*F) <sup>?</sup>	-5.925(1.878)**	-6.839 (1.903)***	-7.236 (1.982)***
c. A's Dir. (M*F) <sup>?</sup> Rel.	17.654(3.149)***	19.515(2.442)***	18.482(2.454)***
	Grand Strategic Outcome Models (COWv4 Based)		
	4a-c. NoExponent	5a-c. Expon.Three	6a-c. Expon.Four
a. A's Direct (M*F) <sup>?</sup>	4.509 (1.939)*	5.398(2.046)**	5.933(2.184)**
b. B's Direct (M*F) <sup>?</sup>	-7.634(1.751)***	-9.768(2.168)***	-10.761(2.642)***
c. A's Dir. (M*F) <sup>?</sup> Rel.	13.187(3.105)***	15.531(3.366)***	15.262(3.449)***
	7a-c. No Exponent	8a-c. Expon. Three	9a-c. Expon. Four
a. A's Wide (M*F) <sup>?</sup>	5.700 (1.868)**	6.293 (1.998)**	6.568(2.114)**
b. B's Wide (M*F) <sup>?</sup>	-9.873(1.294)***	-10.817(1.605)***	-11.439(1.903)***
c. A's W. (M*F) <sup>?</sup> Rel.	16.018 (6.162)**	15.460(5.902)**	15.359(5.673)**

Notes: <sup>†</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. N=222. Tests are two-tailed logit of wins or draws (1) versus losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. Generated in Stata 12.0.

#11. [Additional Baseline Tests: Binary and Matching](#)

<b>Additional Overall Baseline Tests: Binary and Matching</b>			
	Strategic Outcomes (Morrow 2007 Based)		
	1a-c. Binary	2a-c. Bin. 2Match (0-50%, 50-100%)	3a-c. Bin. 4Match (0-25%, 25-50%, 50-75%, 75-100%)
Overall Compliance			
a. A's Direct Binary	.936 (.342)**	.947 (.335)**	1.181 (.384)**
b. B's Direct Binary	-.984(.366)**	-1.008 (.349)**	-1.151 (.382)**
c. A's Direct Binary Rel.	2.091(.583)***	2.074 (.586)***	2.510 (.578)*** <sup>^</sup>
	Grand Strategic Outcome Models (COWv4 Based)		
	4a-c. Binary	5a-c. Bin. 2Match	6a-c. Bin. 4Match
a. A's Direct Binary	1.378 (.561)*	1.373 (.496)**	1.740 (.525)**
b. B's Direct Binary	-2.355 (.465)***	-2.291 (.469)***	-2.195 (.426)***
c. A's Direct Binary Rel.	2.629 (.471)***	2.629 (.486)***	2.853 (.553)***
	7a-c. Binary	8a-c. Bin. 2Match	9a-c. Bin. 4Match
a. A's Wide True Binary	1.347 (.666)*	1.341 (.571)*	1.660 (.610)**
b. B's Wide True Binary	-2.965 (.467)***	-2.855 (.491)***	-2.861 (.435)***
c. A's W. True Binary Rel.	5.375 (1.104)***	5.479 (1.004)***	5.680 (1.084)***

Notes: <sup>†</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. N=222. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and robust standard errors clustered by 48 wars in parentheses. <sup>^</sup>=4Match's A's Direct Binary Relative has N=202. Generated in Stata 12.0.

#12. [Table 3: Overall Lake Direct Strategic Models 1a-c](#)

Overall Compliance&Controls	Strategic Outcomes (Morrow 2007 Based)		
	1. A Only	2. A&B	3. A Relative
A's Direct (M*F) <sup>2</sup>	.854 (1.572)	4.460 (2.254)*	
B's Direct (M*F) <sup>2</sup>		-4.718 (2.006)*	
A's Direct (M*F) <sup>2</sup> Relative			4.636 (1.926)*
A's Democracy (1-10)	.239 (.062)***	.221 (.063)***	.220 (.063)***
A's Prewar Iron&Steel/1000	-.026 (.019)	-.030 (.021)	-.030 (.021)
A's Prewar MilSize/1000	.577 (.445)	.595 (.452)	.610 (.444)
Constant	-1.103 (.486)*	-1.387 (.522)**	-1.340 (.414)**
Log Pseudolikelihood	-62.323	-59.282	-59.293
Pseudo R2	.127	.169	.169
N	103	103	103

Notes: <sup>†</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and regular standard errors in parentheses. Generated in Stata 12.0.

#13. [Table 3: Overall Reiter and Stam Direct Strategic Models 2a-c](#)

Overall Compliance&Controls	Strategic Outcomes (R&S 1998 Based)		
	2a. A Only	2b. A&B	2c. A Relative
A's Direct (M*F) <sup>2</sup> BEL24AUG14	1.293 (1.421)	7.787 (2.174)***	
B's Direct (M*F) <sup>2</sup> BEL24AUG14		-9.250(2.019)***	
A's Dir. (M*F) <sup>2</sup> Rel. BEL24AUG14			8.033 (2.074)***
lowupdate_rs1998_init	2.210 (.669)**	3.518 (.835)***	3.437 (.847)***
lowupdate_rs1998_polini	.116 (.052)*	.131 (.065)*	.129 (.064)*
lowupdate_rs1998_poltarg	.077 (.038)*	.071 (.050)	.073 (.047)
lowupdate_rs1998_concap	4.697 (1.173)***	5.965 (1.230)***	5.788 (1.184)***
low_rs1998_capasst	5.666 (1.557)***	6.313 (1.547)***	6.195 (1.529)***
lowupdate_rs1998_qualrat	.033 (.031)	.060 (.042)	.055 (.039)
lowupdate_rs1996_terrain	-22.863(6.077)***	-33.255(13.179)*	-31.201(12.001)**
lowupdate_rs1998_strat_2points	-8.785 (2.339)***	-10.604 (3.693)**	-10.404 (3.387)**
lowupdate_rs1998_strat_3points	-10.281 (3.596)**	-13.241 (5.211)*	-12.712 (4.863)*
lowupdate_rs1998_strat_4points	-10.281 (3.596)**	-14.468 (6.824)*	-13.797 (6.316)*
lowupdate_rs1998_strat_5points	-18.869 (5.567)**	-25.887 (10.140)*	-24.435 (9.408)**
lowupdate_rs1998a_straterr	7.749 (2.212)***	11.216 (4.366)*	10.561 (4.028)**
Constant	6.525 (2.390)**	8.080 (4.765) <sup>+</sup>	7.858 (4.341) <sup>+</sup>
Log Pseudolikelihood	-29.019	-24.308	-24.518
Pseudo R2	.670	.724	.721
N	127	127	127

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Reiter and Stam is probit and robust standard errors in parentheses. The BEL24AUG14 modifier counts World War I compliance between Belgium and Germany through 24 August 1914 and no later, so the compliance timing aligns with the outcome coding of when Germany occupied almost all of Belgium. See Annex for Details. Generated in Stata 12.0.

#14. [Table 3: Overall Downes^ Direct Strategic Models 3a-c](#)

Overall Compliance&Controls	Strategic Outcomes (Downes^ 2009 Based)		
	3a. A Only	3b. A&B	3c. A Relative
A's Direct (M*F) <sup>2</sup> BEL24AUG14	1.487 (.773) <sup>+</sup>	3.672 (1.350)**	
B's Direct (M*F) <sup>2</sup> BEL24AUG14		-3.388 (1.784) <sup>+</sup>	
A's Dir. (M*F) <sup>2</sup> Rel. BEL24AUG14			3.524 (2.074)*
d2009_pol21	.180 (.067)**	.167 (.063)**	.165 (.062)**
d2009_initally	1.829 (.671)**	1.831 (.633)**	1.805 (.591)**
d2009_targally	1.469 (.849) <sup>+</sup>	1.255 (.836)	1.255 (.836)
d2009_pol21initally	-.096 (.076)	-.084 (.073)	-.082 (.072)
d2009_pol21targally	-.166 (.066)*	-.161 (.064)*	-.161 (.064)*
lowupdate_rs1998_concap	3.824 (.808)***	4.019 (.835)***	4.016 (.839)***
low_rs1998_capasst	4.083 (1.013)***	3.758 (1.013)***	3.724 (.938)***
lowupdate_rs1998_qualrat	.031 (.027)	.046 (.050)	.047 (.050)
lowupdate_rs1996_terrain	-16.484(4.042)***	-16.226(3.912)***	-16.058(3.878)***
lowupdate_rs1998_strat_2points	-7.565 (1.500)***	-7.393 (1.427)***	-7.307 (1.387)***
lowupdate_rs1998_strat_3points	-6.796 (1.956)**	-6.493 (1.911)**	-6.394 (1.907)**
lowupdate_rs1998_strat_4points	-6.724 (2.529)**	-6.298 (2.530)*	-6.171 (2.504)*
lowupdate_rs1998_strat_5points	-12.241 (3.589)**	-12.049 (3.527)**	-11.917 (3.518)**
lowupdate_rs1998a_straterr	4.893 (1.403)***	4.736 (1.379)**	4.672 (1.378)**
low_offensivestrat	1.050 (.646)	1.237 (.628)*	1.233 (.626)*
warbegan_after1945	1.560 (.400)***	1.751 (.415)***	1.752 (.415)***
Constant	3.658 (1.849)*	3.264 (1.769) <sup>+</sup>	3.160 (1.733) <sup>+</sup>
Log Pseudolikelihood	-45.620	-43.899	-43.914
Pseudo R2	.567	.583	.583
N	157	157	157

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Downes^ modifies Downes (2009). It uses probit, not ordered probit, with robust errors clustered by 58 Stam 1996 wars and adds controls for offense Stam (1996) and post-1945 start. The BEL24AUG14 modifier counts World War I compliance between Belgium and Germany through 24 August 1914 and no later, so the compliance timing aligns with the outcome coding of when Germany occupied almost all of Belgium. See Annex for Details. Generated in Stata 12.0.

#15. [Table 3: Overall Lake Direct Grand Strategic Models 4a-c](#)

Overall Compliance&Controls	Grand Strategic Outcomes (Original Lake COW Based)		
	4a. A Only	4b. A&B	4c. A Relative
A's Direct (M*F) <sup>2</sup>	3.107 (1.768) <sup>+</sup>	9.050 (2.863)**	
B's Direct (M*F) <sup>2</sup>		-7.713 (2.571)**	
A's Direct (M*F) <sup>2</sup> Relative			8.213 (2.496)**
A's Democracy (1-10)	.302 (.070)***	.279 (.073)***	.280 (.073)***
A's Prewar Iron & Steel/1000	-.037 (.020) <sup>+</sup>	-.044 (.024) <sup>+</sup>	-.045 (.025) <sup>+</sup>
A's Prewar Military Size/1000	.862 (.515) <sup>+</sup>	.876 (.532)	.783 (.489)
Constant	-.595 (.478)	-1.032 (.543) <sup>+</sup>	-1.252 (.430)**
Log Pseudolikelihood	-56.650	-50.649	-50.864
Pseudo R2	.197	.282	.2793
N	103	103	103

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Tests are two-tailed logit of wins or draws (1) versus losses (0). Results are coefficients and regular standard errors in parentheses. Generated in Stata 12.0.



#16. [Table 3: Overall Reiter and Stam Direct Grand Strategic Models 5a-c](#)

<b>TABLE 3: Overall Reiter and Stam Direct Grand Strategic Models 5a-c</b>			
	Grand Strategic Outcomes (COWv4 Based)		
Overall Compliance&Controls	5a. A Only	5b. A&B	5c. A Relative
A's Direct (M*F) <sup>2</sup> BEL24AUG14	1.899 (1.429)	5.337 (1.929)**	
B's Direct (M*F) <sup>2</sup> BEL24AUG14		-5.547 (1.861)**	
A's Dir. (M*F) <sup>2</sup> Rel. BEL24AUG14			5.435 (1.680)**
lowupdate_rs1998_init	.541 (.321) <sup>+</sup>	1.083 (.345)**	1.087 (.342)**
lowupdate_rs1998_polini	.067 (.029)*	.062 (.032) <sup>+</sup>	.062 (.032) <sup>+</sup>
lowupdate_rs1998_poltarg	.074 (.029)*	.075 (.033)*	.075 (.033)*
lowupdate_rs1998_concap	1.222 (.543)*	1.634 (.601)**	1.623 (.598)**
low_rs1998_capasst	2.231 (.618)***	2.397 (.611)***	2.384 (.613)***
lowupdate_rs1998_qualrat	.011 (.011)	.015 (.012)	.015 (.012)
lowupdate_rs1996_terrain	-10.862(3.559)**	-13.739(4.283)**	-13.751(4.256)**
lowupdate_rs1998_strat_2points	-5.784 (1.468)***	-7.014 (1.674)***	-7.020 (1.661)***
lowupdate_rs1998_strat_3points	-6.205 (2.775)**	-8.175 (2.625)**	-8.172 (2.603)**
lowupdate_rs1998_strat_4points	-7.205 (2.775)**	-9.443 (3.391)**	-9.455 (3.370)**
lowupdate_rs1998_strat_5points	-12.430 (4.357)**	-16.389 (5.035)**	-16.388 (5.009)**
lowupdate_rs1998a_straterr	3.601 (1.215)**	4.626 (1.429)**	4.628 (1.421)**
Constant	5.833 (2.008)**	6.871 (2.597)**	6.907 (2.580)**
Log Pseudolikelihood	-56.454	-51.190	-51.198
Pseudo R2	.374	.432	.432
N	131	131	131

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Reiter and Stam is probit and robust standard errors in parentheses. The Reiter and Stam Grand Strategic models add Britain and France during the Sinai War and Japan verses China as a sub-war in World War II. The BEL24AUG14 modifier counts World War I compliance between Belgium and Germany through 24 August 1914 and no later, so the compliance timing aligns with the outcome coding of when Germany occupied almost all of Belgium. See Annex for Details. Generated in Stata 12.0.

#17. [Table 3: Overall Downes^ Direct Grand Strategic Models 6a-c](#)

Overall Compliance&Controls	Grand Strategic Outcomes (COWV4 Based)		
	6a. A Only	6b. A&B	6c. A Relative
A's Direct (M*F) <sup>2</sup> BEL24AUG14	.767 (.741)	3.435 (1.661)*	
B's Direct (M*F) <sup>2</sup> BEL24AUG14		-4.368 (1.845)*	
A's Dir. (M*F) <sup>2</sup> Rel. BEL24AUG14			3.917 (1.701)*
d2009_pol21	.186 (.058)**	.167 (.063)**	.164 (.057)**
d2009_initally	1.074 (.768)	.996 (.747)	1.067 (.762)
d2009_targally	1.155 (.809)	.802 (.760)	.842 (.774)
d2009_pol21initally	-.159 (.061)**	-.143 (.059)*	-.148 (.060)*
d2009_pol21targally	-.141 (.060)*	-.119 (.058)*	-.124 (.058)*
lowupdate_rs1998_concap	1.051 (.584) <sup>+</sup>	1.255 (.664) <sup>+</sup>	1.207 (.655) <sup>+</sup>
low_rs1998_capasst	1.592 (.698)*	1.275 (.716) <sup>+</sup>	1.321 (.715) <sup>+</sup>
lowupdate_rs1998_qualrat	.006 (.012)	.006 (.012)	.006 (.012)
lowupdate_rs1996_terrain	-8.746(3.836)*	-9.529 (3.790)*	-9.709 (3.779)*
lowupdate_rs1998_strat_2points	-5.657 (1.776)**	-6.176 (1.649)***	-6.220 (1.628)***
lowupdate_rs1998_strat_3points	-5.289 (2.399)*	-6.013 (2.287)**	-6.078 (2.258)**
lowupdate_rs1998_strat_4points	-5.492 (2.975) <sup>+</sup>	-6.219 (2.956)*	-6.318 (2.504)*
lowupdate_rs1998_strat_5points	-11.023 (5.020)*	-12.511 (4.657)**	-12.654 (4.663)**
lowupdate_rs1998a_straterr	3.087 (1.323)*	3.388 (1.288)**	3.446 (1.292)**
low_offensivestrat	.931 (.498) <sup>+</sup>	1.247 (.468)**	1.230 (.473)**
warbegan_after1945	.271 (.206)	.380 (.210) <sup>+</sup>	1.752 (.415)***
Constant	2.705 (2.258)	3.102 (2.274)	3.281 (2.237)
Log Pseudolikelihood	-70.150	-65.878	-66.097
Pseudo R2	.347	.387	.385
N	157	157	157

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Downes^ modifies Downes (2009). It uses probit of wins or draws (1) verses losses (0), not ordered probit, with robust errors clustered by 43 baseline wars and adds controls for offense Stam (1996) and post-1945 start (Downes 2012). The BEL24AUG14 modifier counts World War I compliance between Belgium and Germany through 24 August 1914 and no later, so the compliance timing aligns with the outcome coding of when Germany occupied almost all of Belgium. See Annex for Details. Generated in Stata 12.0.

#18. [Table 3: Overall Lake Wide Grand Strategic Models 7a-c](#)

Overall Compliance&Controls	Grand Strategic Outcomes (Original Lake COW Based)		
	7a. A Only	7b. A&B	7c. A Relative
A's Wide (M*F) <sup>2</sup>	3.107 (1.768) <sup>+</sup>	9.050 (2.863)**	
B's Wide (M*F) <sup>2</sup>		-7.713 (2.571)**	
A's Wide (M*F) <sup>2</sup> Relative			8.213 (2.496)**
A's Democracy (1-10)	.302 (.070)***	.279 (.073)***	.280 (.073)***
A's Prewar Iron & Steel/1000	-.037 (.020) <sup>+</sup>	-.044 (.024) <sup>+</sup>	-.045 (.025) <sup>+</sup>
A's Prewar Military Size/1000	.862 (.515) <sup>+</sup>	.876 (.532)	.783 (.489)
Constant	-.595 (.478)	-1.032 (.543) <sup>+</sup>	-1.252 (.430)**
Log Pseudolikelihood	-56.650	-50.649	-50.864
Pseudo R2	.197	.282	.2793
N	103	103	103

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Tests are two-tailed logit of wins or draws (1) verses losses (0). Results are coefficients and regular standard errors in parentheses. Generated in Stata 12.0.

#19. [Table 3: Overall Reiter and Stam Wide Grand Strategic Models 8a-c](#)

Overall Compliance&Controls	Grand Strategic Outcomes (COWv4 Based)		
	8a. A Only	8b. A&B	8c. A Relative
A's Wide (M*F) <sup>2</sup>	2.975 (1.452)*	6.377 (1.704)***	
B's Wide (M*F) <sup>2</sup>		-5.137 (1.745)**	
A's Wide (M*F) <sup>2</sup> Rel.			5.667 (1.447)***
lowupdate_rs1998_init	.684 (.325)*	1.265 (.344)***	1.208 (.366)**
lowupdate_rs1998_polini	.076 (.028)**	.077 (.031)*	.074 (.032)*
lowupdate_rs1998_poltarg	.076 (.031)*	.071 (.033)*	.070 (.033)*
lowupdate_rs1998_concap	1.372 (.536)*	1.956 (.576)**	1.972 (.581)**
low_rs1998_capasst	2.334 (.652)***	2.548 (.643)***	2.529 (.647)***
lowupdate_rs1998_qualrat	.012 (.011)	.018 (.013)	.018 (.013)
lowupdate_rs1996_terrain	-11.636(3.774)**	-13.136(4.404)**	-12.688(4.791)**
lowupdate_rs1998_strat_2points	-6.181 (1.576)***	-6.905 (1.773)***	-6.689 (1.968)**
lowupdate_rs1998_strat_3points	-6.628 (2.252)**	-7.713 (2.708)**	-7.496 (2.961)*
lowupdate_rs1998_strat_4points	-7.776 (2.922)**	-8.832 (3.432)*	-8.479 (3.741)*
lowupdate_rs1998_strat_5points	-13.305 (4.715)**	-15.737 (5.185)**	-15.286 (5.554)**
lowupdate_rs1998a_straterr	3.833 (1.306)**	4.423 (1.470)**	4.293 (1.574)**
Constant	6.380 (2.122)**	6.443 (2.633)*	6.004 (2.918)*
Log Pseudolikelihood	-54.744	-49.290	-49.616
Pseudo R2	.393	.453	.450
N	131	131	131

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Reiter and Stam is probit and robust standard errors in parentheses. The Reiter and Stam Grand Strategic models add Britain and France during the Sinai War and Japan verses China as a sub-war in World War II. See Annex for Details. Generated in Stata 12.0.

#20. [Table 3: Downes^ Wide Grand Strategic Models 9a-c](#)

Overall Compliance&Controls	Grand Strategic Outcomes (COWV4 Based)		
	9a. A Only	9b. A&B	9c. A Relative
A's Wide (M*F) <sup>2</sup>	1.568 (.691)*	4.319 (1.631)**	
B's Wide (M*F) <sup>2</sup>		-4.368 (1.720)*	
A's Wide (M*F) <sup>2</sup> Rel.			4.346 (1.629)**
d2009_pol21	.188 (.059)**	.163 (.057)**	.163 (.056)**
d2009_initally	1.123 (.804)	1.055 (.769)	1.059 (.781)
d2009_targally	1.157 (.824)	.802 (.760)	.860 (.778)
d2009_pol21initally	-.160 (.062)*	-.146 (.060)*	-.146 (.060)*
d2009_pol21targally	-.143 (.061)*	-.128 (.061)*	-.128 (.060)*
lowupdate_rs1998_concap	1.083 (.584) <sup>+</sup>	1.421 (.727) <sup>+</sup>	1.419 (.722)*
low_rs1998_capasst	1.636 (.714)*	1.410 (.716) <sup>+</sup>	1.413 (.729) <sup>+</sup>
lowupdate_rs1998_qualrat	.007 (.012)	.008 (.013)	.008 (.013)
lowupdate_rs1996_terrain	-9.099(3.923)*	-9.385 (4.186)*	-9.400 (4.288)*
lowupdate_rs1998_strat_2points	-5.840 (1.784)**	-6.168 (1.868)**	-6.174 (1.901)**
lowupdate_rs1998_strat_3points	-5.502 (2.416)*	-5.900 (2.567)*	-5.907 (2.611)*
lowupdate_rs1998_strat_4points	-5.736 (3.016) <sup>+</sup>	-5.993 (3.246) <sup>+</sup>	-6.003 (3.306) <sup>+</sup>
lowupdate_rs1998_strat_5points	-11.459 (5.119)*	-12.438 (5.202)*	-12.454 (5.301)*
lowupdate_rs1998a_straterr	3.206 (1.360)*	3.355 (1.433)*	3.360 (1.468)*
low_offensivestrat	.966 (.491)*	1.312 (.417)**	1.312 (.418)**
warbegan_after1945	.263 (.216)	.399 (.229) <sup>+</sup>	.399 (.228) <sup>+</sup>
Constant	2.984 (2.263)	2.929 (2.456)	2.942 (2.524)
Log Pseudolikelihood	-69.367	-64.513	-64.514
Pseudo R2	.354	.399	.399
N	157	157	157

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. Downes^ modifies Downes (2009). It uses probit of wins or draws (1) verses losses (0), not ordered probit, with robust errors clustered by 43 baseline wars and adds controls for offense Stam (1996) and post-1945 start (Downes 2012). Generated in Stata 12.0.

#21. [By-Issue Estimated Effects: Declaration, Armistice, Prisoners](#)

**By-Issue Estimated Effects: Declaration, Armistice, Prisoners**

By-Issue Area A's Relative Mass-Squared ( $M^*F$ )<sup>2</sup> Direct Strategic Outcome Models and Mass-Squared ( $M^*F$ )<sup>2</sup> Direct and Wide Grand Strategic Outcome Models

1. Declarations of War	2. Armistice Fulfillment	3. Prisoners of War
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: .816 (.808) N=222	B: -296.540 (Const) N=68	B: 3.995 (1.135)*** N=222
L: .405 (.437) N=103	L: -16.224 (8.737) <sup>+</sup> N=53	L: 1.637 (.752)* N=103
RS: 2.678 (.755)*** N=127	RS: -760.926(Const) N=42	RS: 1.381 (.595)* N=127
D: .681 (.445) N=156	D: -462.849 (Const) N=55	D: 1.458 (.694)* N=156
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: 2.530 (1.005)* N=222	B: -408.727 (Const.) N=68	B: 5.131 (2.192)* N=222
L: 1.334 (.517)** N=103	L: -11.405 (4.810)* N=53	L: 2.137 (.845)* N=103
RS: 1.045 (.373)** N=131	RS: Not Concave	RS: 1.563 (.592)** N=131
D: .413 (.456) N=156	D: -1099.03 (Const.) N=44	D: 1.634 (.677)* N=156
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: 3.621 (1.231)** N=222	B: -1016.094 (Const.) N=70	B: 7.733 (1.615)*** N=222
L: 1.334 (.517)** N=103	L: -11.405 (4.810)* N=53	L: 2.137 (.845)* N=103
RS: 1.165 (.386)** N=131	RS: Not Concave	RS: 1.942 (.625)** N=131
D: .510 (.470) N=156	D: -1099.03 (Constant) N=44	D: 1.940 (588)*** N=156

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter & Stam 1998. D=Downes<sup>^</sup> is modified Downes 2009 with probit, not ordered probit, and adds Offense and Post-1945 controls.

Strategic models use Morrow 2007 outcomes for Morrow, Morrow 2007 outcomes for Lake, Reiter & Stam outcomes for Reiter & Stam, Downes outcomes for Downes. Grand Strategic outcomes use COWv4 codes for Morrow, Lake outcomes for Lake, COWv4 outcomes for Reiter & Stam, and COWv4 outcomes for Downes. All models are wins or draws (1) verses losses (0). Morrow is logit with robust errors clustered by 48 wars 1899-1991. Lake is logit with regular standard errors for 20 wars 1899-1982. Reiter and Stam models are probit with robust errors for 46 Stam 1996 strategic wars and 32 grand strategic wars 1899-1982. Downes<sup>^</sup> strategic models are probit with robust errors clustered by 58 Stam 1996 wars, and Downes<sup>^</sup> grand strategic models are probit with robust errors clustered by 43 Morrow based wars 1899-1982. Generated in Stata 12.0.

#22. [By-Issue Estimated Effects: Wounded, High Seas, Chemical/Biological](#)

<b>By-Issue Estimated Effects: Wounded, High Seas, CBW</b>		
By-Issue Area A's Relative Mass-Squared (M*F) <sup>2</sup> Direct Strategic Outcome Models and Mass-Squared (M*F) <sup>2</sup> Direct and Wide Grand Strategic Outcome Models		
4. Wounded Enemies	5. High Seas Conduct	6. Chemical/Biological
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: 8.367 (1.816)*** N=222	B: .134 (.652) N=136	B: 5.467 (2.492)* N=204
L: .088 (.832) N=103	L: 1.202 (1.027) N=73	L: 5.307 (2.204)* N=102
RS: -.276 (.824) N=127	RS: -.095 (.980) N=71	RS: .176 (.682) N=126
D: .112 (.585) N=156	D: -.676 (.552) N=88	D: -.236 (.608) N=154
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: 13.157 (3.118)***N=222	B: -1.243 (2.048) N=136	B: 3.030 (1.308)* N=204
L: -.143 (.832) N=103	L: .473 (1.039) N=73	L: 13.669 (4.991)** N=102
RS: 3.574 (1.046)*** N=131	RS: -.385 (.636) N=75	RS: 1.187 (.857) N=130
D: 1.823 (.995) <sup>+</sup> N=156	D: -.098 (.674) N=88	D: .772 (.704) N=154
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: 10.414 (2.056)***N=222	B: 4.670 (1.891)* N=142	B: 3.541 (1.015)*** N=210
L: -.143 (.832) N=103	L: .473 (1.039) N=73	L: 13.669 (4.991)** N=102
RS: 4.029 (1.110)*** N=131	RS: -.779 (.631) N=75	RS: 1.764 (.867)* N=130
D: 2.059 (.960)* N=156	D: -.574 (.719) N=88	D: 1.230 (.701) <sup>+</sup> N=154
Notes: All tests are two-tailed: <sup>+</sup> p<.10, *p<.05, **p<.01, ***p<.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter & Stam 1998. D=Downes <sup>^</sup> is modified Downes 2009 with probit, not ordered probit, and adds Offense and Post-1945 controls. Strategic models use Morrow 2007 outcomes for Morrow, Morrow 2007 outcomes for Lake, Reiter & Stam outcomes for Reiter & Stam, Downes outcomes for Downes. Grand Strategic outcomes use COWv4 codes for Morrow, Lake outcomes for Lake, COWv4 outcomes for Reiter & Stam, and COWv4 outcomes for Downes. All models are wins or draws (1) verses losses (0). Morrow is logit with robust errors clustered by 48 wars 1899-1991. Lake is logit with regular standard errors for 20 wars 1899-1982. Reiter and Stam models are probit with robust errors for 46 Stam 1996 strategic wars and 32 grand strategic wars 1899-1982. Downes <sup>^</sup> strategic models are probit with robust errors clustered by 58 Stam 1996 wars, and Downes <sup>^</sup> grand strategic models are probit with robust errors clustered by 43 Morrow based wars 1899-1982. Generated in Stata 12.0.		

#23. [By-Issue Estimated Effects: Aerial, Civilians, Cultural Property](#)

<b>By-Issue Estimated Effects: Aerial, Civilians, Cultural Property</b>		
By-Issue Area A's Relative Mass-Squared (M*F) <sup>2</sup> Direct Strategic Outcome Models and Mass-Squared (M*F) <sup>2</sup> Direct and Wide Grand Strategic Outcome Models		
7. Aerial Bombardment	8. Civilian Safeguarding	9. Cultural Property
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: 4.023 (2.170) <sup>+</sup> N=160	B: 2.521 (1.379) <sup>+</sup> N=222	B: 12.985 (6.673) <sup>+</sup> N=222
L: -1.180 (1.213) N=88	L: 1.153 (.801) N=103	L: 4.282 (1.776)* N=103
RS: -.806 (.796) N=104	RS: 1.337 (.571)* N=127	RS: 2.672 (1.452) <sup>+</sup> N=127
D: .106 (1.006) N=128	D: 1.040 (.469)* N=155	D: 2.885 (1.574) <sup>+</sup> N=155
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: 6.919 (3.848) <sup>+</sup> N=160	B: 1.050 (1.199) N=222	B: 13.203 (12.180) N=222
L: .576 (1.228) N=88	L: 1.742 (.875)* N=103	L: 5.727 (2.411)* N=103
RS: -.987 (7.67) N=108	RS: 1.173 (.450)** N=131	RS: 3.317 (2.129) N=131
D: -.221 (.841) N=128	D: .869 (.550) N=155	D: 4.028 (2.630) N=155
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: 8.690 (4.273)* N=174	B: 2.630 (.682)*** N=222	B: 9.268 (2.132)*** N=222
L: .576 (1.228) N=88	L: 1.742 (.875)* N=103	L: 5.727 (2.411)* N=103
RS: -1.961 (.953)* N=108	RS: 1.171 (.434)** N=131	RS: 4.470 (2.264)* N=131
D: -1.222 (.825) N=128	D: .893 (.530) <sup>+</sup> N=155	D: 5.197 (2.759) <sup>+</sup> N=155
Notes: All tests are two-tailed: <sup>+</sup> p<.10, *p<.05, **p<.01, ***p<.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter & Stam 1998. D=Downes <sup>^</sup> is modified Downes 2009 with probit, not ordered probit, and adds Offense and Post-1945 controls. Strategic models use Morrow 2007 outcomes for Morrow, Morrow 2007 outcomes for Lake, Reiter & Stam outcomes for Reiter & Stam, Downes outcomes for Downes. Grand Strategic outcomes use COWv4 codes for Morrow, Lake outcomes for Lake, COWv4 outcomes for Reiter & Stam, and COWv4 outcomes for Downes. All models are wins or draws (1) verses losses (0). Morrow is logit with robust errors clustered by 48 wars 1899-1991. Lake is logit with regular standard errors for 20 wars 1899-1982. Reiter and Stam models are probit with robust errors for 46 Stam 1996 strategic wars and 32 grand strategic wars 1899-1982. Downes <sup>^</sup> strategic models are probit with robust errors clustered by 58 Stam 1996 wars, and Downes <sup>^</sup> grand strategic models are probit with robust errors clustered by 43 Morrow based wars 1899-1982. Generated in Stata 12.0.		



#24. [Endogeneity Forecast Treatment & Control Tests: Overall](#)

<b>Endogeneity Forecast Treatment &amp; Control Tests: Overall</b>		
Overall A's Relative Mass-Squared (M*F) <sup>2</sup> Direct Strategic Outcome Models and Mass-Squared (M*F) <sup>2</sup> Direct and Wide Grand Strategic Outcome Models		
1. Overall A's Side Only	2. Overall A's&B Side Only	3. Overall A's Relative
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: -.014 (.020) [↓] L: -1.324 (2.157) [↑] RS: -.048 (.055) [↑] D: -.139 (.062) [↓]	B: N/A L: -.842 (.925) [↓ <sup>*to+</sup> ] RS: -.047 (.041) [↓] D: -.095 (.054) <sup>+</sup> [↑]	B: -.019 (.025) [↑] L: 1.348 (1.858) [↓] RS: -.012 (.047) [↓] D: -.068 (.056) [↑ <sup>*to**</sup> ]
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: -.051 (.019) <sup>*</sup> [↓] L: -.548 (.744) [↓] RS: -.128 (.162) [↓] D: -.077 (.131) [↑]	B: N/A L: -.467 (.453) [↓] RS: -.007 (.113) [↑] D: .045 (.159) [↓]	B: -.089 (.031) <sup>**</sup> [↓] L: .070 (.643) [↑] RS: .040 (.138) [↑ <sup>**to***</sup> ] D: .134 (.175) [↓]
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: .007 (.035) [↑] L: -.548 (.744) [↓] RS: -.146 (.161) [↓] D: -.094 (.137) [↑]	B: N/A L: -.467 (.453) [↓] RS: .002 (.124) [↑] D: .045 (.162) [↓]	B: .000 (.048) [↓] L: .070 (.643) [↑] RS: -.011 (.142) [↑] D: .081 (.173) [↑]
<p>Notes: All tests are two-tailed: <sup>+</sup>p&lt;.10, <sup>*</sup>p&lt;.05, <sup>**</sup>p&lt;.01, <sup>***</sup>p&lt;.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter &amp; Stam 1998. D=Downes<sup>^</sup> is modified. Results report coefficients, errors in parentheses, and significance for linear regression of pre-compliance forecasts to explain A's relative compliance. [↑] indicates an increase and [↓] indicates a decrease in relative compliance coefficient from adding pre-compliance forecasts as control variables. ≠ Not concave. Strategic models use Morrow 2007 for Baseline, Morrow 2007 for Lake, Reiter &amp; Stam for Reiter &amp; Stam, Downes for Downes. Grand Strategic outcomes use COWv4 for Baseline, Lake for Lake, COWv4 for Reiter &amp; Stam, and COWv4 for Downes. Forecasts are probabilities of wins or draws (1) verses losses (0). Baseline tests use logit forecasts and linear regression, both with robust errors clustered by 48 Baseline wars 1899-1991. Lake tests use logit forecasts and linear regression, both with regular standard errors for 20 wars 1899-1982. Reiter and Stam tests use probit forecasts and linear regression, both with robust errors for 46 Stam 1996 strategic wars and 32 Baseline grand strategic wars 1899-1982. Downes<sup>^</sup> strategic model tests use probit and linear regression, both with robust errors clustered by 58 Stam 1996 wars, and Downes<sup>^</sup> grand strategic model tests use probit and linear regression, both with robust errors clustered by 43 Baseline wars 1899-1982.</p> <p>Generated in Stata 12.0.</p>		

#25. [Endogeneity Forecast Treatment & Control Tests: Declaration, Armistice, Prisoners](#)

<b>Endogeneity Forecast Treatment &amp; Control Tests: Declaration, Armistice, Prisoners</b>		
Overall A's Relative Mass-Squared (M*F) <sup>2</sup> Direct Strategic Outcome Models and Mass-Squared (M*F) <sup>2</sup> Direct and Wide Grand Strategic Outcome Models		
1. Declarations of War	2. Armistice Fulfillment	3. Prisoners of War
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: .279 (.144) <sup>+</sup> [↓] L: -3.227 (6.624) [↑] RS: -.148 (.245) [↓] D: .007 (.231) [↑]	B: .074 (.094) [↓] L: 5.901 (3.713) [↓] RS: -.465 (.208)* [≠] D: .049 (.169) [≠]	B: .079 (.058) [↓ <sup>***to**</sup> ] L: .988 (3.961) [↑] RS: .555 (.191)** [↓] D: .100 (.170) [↑]
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: .055 (.190) [↓] L: -.365 (2.648) [↑] RS: -.537 (.705) [↑] D: .649 (.474) [↓]	B: .064 (.117) [↓] L: 2.037 (1.556) [↓] RS: .311 (.455) [≠] D: -.318 (.433) [↑]	B: -.147 (.137) [↑] L: -.624 (1.581) [↑] RS: 1.021 (.437)* [↓] D: .250 (.267) [↓]
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: .328 (.121)** [↑] L: -.365 (2.648) [↑] RS: -.526 (.708) [↑] D: .648 (.491) [↓]	B: -.162 (.123) [≠] L: 2.037 (1.556) [↓] RS: .311 (.455) [≠] D: -.318 (.433) [↑]	B: .121 (.116) [↑] L: -.624 (1.581) [↑] RS: 1.041 (.438)* [↓] D: .149 (.296) [↓]
Notes: All tests are two-tailed: <sup>+</sup> p<.10, *p<.05, **p<.01, ***p<.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter & Stam 1998. D=Downes <sup>^</sup> is modified. Results report coefficients, errors in parentheses, and significance for linear regression of pre-compliance forecasts to explain A's relative compliance. [↑] indicates an increase and [↓] indicates a decrease in relative compliance coefficient from adding pre-compliance forecasts as control variables. ≠= Not concave. Strategic models use Morrow 2007 for Baseline, Morrow 2007 for Lake, Reiter & Stam for Reiter & Stam, Downes for Downes. Grand Strategic outcomes use COWv4 for Baseline, Lake for Lake, COWv4 for Reiter & Stam, and COWv4 for Downes. Forecasts are probabilities of wins or draws (1) verses losses (0). Baseline tests use logit forecasts and linear regression, both with robust errors clustered by 48 Baseline wars 1899-1991. Lake tests use logit forecasts and linear regression, both with regular standard errors for 20 wars 1899-1982. Reiter and Stam tests use probit forecasts and linear regression, both with robust errors for 46 Stam 1996 strategic wars and 32 Baseline grand strategic wars 1899-1982. Downes <sup>^</sup> strategic model tests use probit and linear regression, both with robust errors clustered by 58 Stam 1996 wars, and Downes <sup>^</sup> grand strategic model tests use probit and linear regression, both with robust errors clustered by 43 Baseline wars 1899-1982.		
Generated in Stata 12.0.		

#26. [Endogeneity Forecast Treatment & Control Tests: Wounded, High Seas, CBW](#)

<b>Endogeneity Forecast Treatment &amp; Control Tests: Wounded, High Seas, CBW</b>		
Overall A's Relative Mass-Squared (M*F) <sup>2</sup> Direct Strategic Outcome Models and Mass-Squared (M*F) <sup>2</sup> Direct and Wide Grand Strategic Outcome Models		
4. Wounded Enemies	5. High Seas Conduct	6. Chemical/Biological
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: -.142 (.092) [↑ <sup>but***to*</sup> ]	B: .024 (.495) [↑]	B: -.037 (.040) [↑ <sup>but*to?</sup> ]
L: 2.184 (3.980) [↓]	L: 3.215 (4.183) [↓]	L: -.915 (1.971) [↑]
RS: .058 (.120) [↓]	RS: .067 (.170) [↑]	RS: -.084 (.094) [↓]
D: -.153 (.119) [↑]	D: -.122 (.139) [↓]	D: -.092 (.082) [↑]
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: -.053 (.048) [↑]	B: -.219 (.133) [↓]	B: -.216 (.132) [↓]
L: .173 (1.327) [↑]	L: 2.178 (1.544) [↑]	L: .205 (.791) [↑]
RS: -.239 (.517) [↓]	RS: -.575 (.562) [↑]	RS: -.380 (.268) [↓]
D: -.071 (.184) [↓]	D: .520 (.406) [↓]	D: -.090 (.200) [↑]
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: -.007 (.060) [↑]	B: -.246 (.214) [↑]	B: -.295 (.198) [↓ <sup>***to**</sup> ]
L: .173 (1.327) [↑]	L: 2.178 (1.544) [↑]	L: .205 (.791) [↑]
RS: -.224 (.515) [↑]	RS: -.592 (.583) [↑]	RS: -.372 (.281) [↑]
D: -.090 (.186) [↓]	D: .510 (.452) [↓]	D: -.157 (.222) [↑]
<p>Notes: All tests are two-tailed: <sup>†</sup>p&lt;.10, *p&lt;.05, **p&lt;.01, ***p&lt;.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter &amp; Stam 1998. D=Downes<sup>^</sup> is modified. Results report coefficients, errors in parentheses, and significance for linear regression of pre-compliance forecasts to explain A's relative compliance. [↑] indicates an increase and [↓] indicates a decrease in relative compliance coefficient from adding pre-compliance forecasts as control variables. ≠ Not concave. Strategic models use Morrow 2007 for Baseline, Morrow 2007 for Lake, Reiter &amp; Stam for Reiter &amp; Stam, Downes for Downes. Grand Strategic outcomes use COWv4 for Baseline, Lake for Lake, COWv4 for Reiter &amp; Stam, and COWv4 for Downes. Forecasts are probabilities of wins or draws (1) verses losses (0). Baseline tests use logit forecasts and linear regression, both with robust errors clustered by 48 Baseline wars 1899-1991. Lake tests use logit forecasts and linear regression, both with regular standard errors for 20 wars 1899-1982. Reiter and Stam tests use probit forecasts and linear regression, both with robust errors for 46 Stam 1996 strategic wars and 32 Baseline grand strategic wars 1899-1982. Downes<sup>^</sup> strategic model tests use probit and linear regression, both with robust errors clustered by 58 Stam 1996 wars, and Downes<sup>^</sup> grand strategic model tests use probit and linear regression, both with robust errors clustered by 43 Baseline wars 1899-1982.</p> <p>Generated in Stata 12.0.</p>		

#27. [Endogeneity Forecast Treatment & Control Tests: Aerial, Civilians, Cultural Property](#)

<b>Endogeneity Forecast Treatment &amp; Control Tests: Aerial, Civilians, Cultural Property</b>		
Overall A's Relative Mass-Squared $(M^*F)^2$ Direct Strategic Outcome Models and Mass-Squared $(M^*F)^2$ Direct and Wide Grand Strategic Outcome Models		
7. Aerial Bombardment	8. Civilian Safeguarding	9. Cultural Property
<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>	<i>a. Direct Strategic</i>
B: -.157 (.162) [↓ <sup>+to?</sup> ]	B: -.126 (.148) [↑]	B: .053 (.072) [↓]
L: .672 (2.735) [↓]	L: .650 (3.712) [↓]	L: 3.162 (3.526) [↑]
R&S: -.330 (.111)** [↑]	R&S: -.131 (.197) [↑]	R&S: .085 (.109) [↓]
D: -.241 (.112)* [↓]	D: -.507 (.164)** [↑]	D: .056 (.107) [↑]
<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>	<i>b. Direct Grand Strategic</i>
B: -.164 (.078)* [↑ <sup>+to*</sup> ]	B: -.199 (.136) [↑]	B: 0.054 (.042) [↑]
L: 1.269 (1.089) [↑]	L: -3.167 (1.448)* [↑]	L: 1.730 (1.403) [↓]
R&S: -.586 (.312) <sup>+</sup> [↑]	R&S: -.760 (.450) <sup>+</sup> [↑]	R&S: .095 (.420) [↓]
D: .226 (.187) [↓]	D: -.988 (.458)* [↑ <sup>+to+</sup> ]	D: .361 (.143) [↓]
<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>	<i>c. Wide Grand Strategic</i>
B: .039 (.063) [↓]	B: -.004 (.184) [↑]	B: .236 (.113)* [↓]
L: 1.269 (1.089) [↑]	L: -3.167 (1.448)* [↑]	L: 1.730 (1.403) [↓]
R&S: -.610 (.314) <sup>+</sup> [↓]	R&S: -.758 (.455) <sup>+</sup> [↑]	R&S: .101 (.427) [↓]
D: .216 (.167) [↓]	D: -1.039 (.457)* [↑]	D: .330 (.146)* [↓]

Notes: All tests are two-tailed: <sup>+</sup>p<.10, \*p<.05, \*\*p<.01, \*\*\*p<.001. B=Baseline based on Morrow 2007. L=Lake 1992. RS=Reiter & Stam 1998. D=Downes<sup>^</sup> is modified. Results report coefficients, errors in parentheses, and significance for linear regression of pre-compliance forecasts to explain A's relative compliance. [↑] indicates an increase and [↓] indicates a decrease in relative compliance coefficient from adding pre-compliance forecasts as control variables. ≠ Not concave. Strategic models use Morrow 2007 for Baseline, Morrow 2007 for Lake, Reiter & Stam for Reiter & Stam, Downes for Downes. Grand Strategic outcomes use COWv4 for Baseline, Lake for Lake, COWv4 for Reiter & Stam, and COWv4 for Downes. Forecasts are probabilities of wins or draws (1) verses losses (0). Baseline tests use logit forecasts and linear regression, both with robust errors clustered by 48 Baseline wars 1899-1991. Lake tests use logit forecasts and linear regression, both with regular standard errors for 20 wars 1899-1982. Reiter and Stam tests use probit forecasts and linear regression, both with robust errors for 46 Stam 1996 strategic wars and 32 Baseline grand strategic wars 1899-1982. Downes<sup>^</sup> strategic model tests use probit and linear regression, both with robust errors clustered by 58 Stam 1996 wars, and Downes<sup>^</sup> grand strategic model tests use probit and linear regression, both with robust errors clustered by 43 Baseline wars 1899-1982.

Generated in Stata 12.0.