

Online Appendix

Owsiak, Andrew P., and John A. Vasquez. 2016. The Cart and the Horse Redux: The Timing of Border Settlement and Joint Democracy. *British Journal of Political Science*, forthcoming.

Appendix A: List of Jointly Democratic, Contiguous Dyads (for entire time period noted)

Table A.1. Jointly Democratic, Contiguous Dyads (for entire time period noted)[†]

Time Period	State A	State B	Border Settles	First Joint Democracy	Which Comes First?
<i>1816-2001</i>	United States	Canada	1908	1920	Settlement
	United Kingdom	Ireland	1999	1922	Joint Democracy
	Netherlands	West Germany	1824	1955	Settlement
	Belgium	West Germany	1816	1955	Settlement
	Switzerland	West Germany	1854	1955	Settlement
	Germany	Czech Republic	1919	1993	Settlement
	West Germany	Austria	1816	1955	Settlement
	West Germany	Denmark	1919	1955	Settlement
	Poland	Czech Republic	1923	1993	Settlement
	Poland	Slovakia	1923	1993	Settlement
	Austria	Czech Republic	1919	1993	Settlement
	Austria	Slovakia	1920	1993	Settlement
	Austria	Slovenia	1920	1992	Settlement
	Hungary	Slovakia	1920	1993	Settlement
	Hungary	Slovenia	1920	1992	Settlement
	Hungary	Czechoslovakia	1920	1990	Settlement
	Czech Republic	Slovakia	1994	1993	Joint Democracy
	Italy	Slovenia	1975	1992	Settlement
	Macedonia	Greece	1912	1993	Settlement
	Macedonia	Bulgaria	1919	1993	Settlement
	Namibia	Botswana	1890	1990	Settlement
<i>1816-1944</i>	United States	Canada	1908	1920	Settlement
	United Kingdom	Ireland	1999	1992	Joint Democracy
<i>1945-1989</i>	United States	Canada	1908	1920	Settlement
	United Kingdom	Ireland	1999	1922	Joint Democracy
	Netherlands	Belgium	1831	1917	Settlement
	Netherlands	West Germany	1824	1955	Settlement
	Belgium	West Germany	1816	1955	Settlement
	Switzerland	West Germany	1854	1955	Settlement
	Switzerland	Austria	1816	1920	Settlement
	West Germany	Austria	1816	1955	Settlement
	West Germany	Denmark	1919	1955	Settlement
	Austria	Italy	1919	1955	Settlement
	Finland	Sweden	1826	1917	Settlement
	Finland	Norway	1826	1917	Settlement
	Sweden	Norway	1660	1914	Settlement
<i>1990-2001</i>	United States	Canada	1908	1920	Settlement
	Honduras	El Salvador	1992	1984	Joint Democracy
	Honduras	Nicaragua	1960	1990	Settlement
	Nicaragua	Costa Rica	1858	1990	Settlement

	Costa Rica	Panama	1941	1989	Settlement
	Panama	Colombia	1924	1989	Settlement
	Colombia	Venezuela	1924	1958	Settlement
	Colombia	Ecuador	1916	1979	Settlement
	Colombia	Brazil	1928	1958	Settlement
	Venezuela	Brazil	1859	1958	Settlement
	Brazil	Bolivia	1903	1985	Settlement
	Brazil	Argentina	1841	1985	Settlement
	Brazil	Uruguay	1851	1958	Settlement
	Bolivia	Chile	1886	1989	Settlement
	Bolivia	Argentina	1891	1983	Settlement
	Chile	Argentina	1995	1989	Joint Democracy
	Argentina	Uruguay	1973	1985	Settlement
	United Kingdom	Ireland	1999	1922	Joint Democracy
	Netherlands	Belgium	1831	1917	Settlement
	Netherlands	Germany	1824	1919	Settlement
	Netherlands	West Germany*	1824	1955	Settlement
	Belgium	France	1815	1876	Settlement
	Belgium	Germany	1816	1919	Settlement
	Belgium	West Germany*	1816	1955	Settlement
	France	Switzerland	1814	1848	Settlement
	France	Spain	1659	1900	Settlement
	France	Germany	1871	1919	Settlement
	France	West Germany*	1945	1955	Settlement
	France	Italy	1861	1947	Settlement
	Switzerland	Germany	1854	1919	Settlement
	Switzerland	West Germany*	1854	1955	Settlement
	Switzerland	Austria	1816	1920	Settlement
	Switzerland	Italy	1861	1947	Settlement
	Spain	Portugal	1479	1911	Settlement
	Germany	Austria	1816	1920	Settlement
	Germany	Czechoslovakia	1919	1919	Simultaneous
	Germany	Czech Republic*	1919	1993	Settlement
	Germany	Denmark	1919	1919	Simultaneous
	West Germany*	Austria	1816	1955	Settlement
	West Germany*	Czechoslovakia	1919	1990	Settlement
	West Germany*	Denmark	1919	1955	Settlement
	Poland	Czech Republic	1923	1993	Settlement
	Poland	Slovakia	1923	1993	Settlement
	Poland	Lithuania	1938	1919	Joint Democracy
	Austria	Hungary	1921	1990	Settlement
	Austria	Czechoslovakia	1920	1920	Simultaneous
	Austria	Czech Republic*	1919	1993	Settlement
	Austria	Slovakia	1920	1993	Settlement
	Austria	Italy	1919	1955	Settlement
	Austria	Slovenia	1920	1992	Settlement
	Hungary	Czechoslovakia	1920	1990	Settlement
	Hungary	Slovakia*	1920	1993	Settlement
	Hungary	Slovenia	1920	1992	Settlement
	Hungary	Ukraine	1946	1991	Settlement
	Czech Republic	Slovakia	1994	1993	Joint Democracy
	Italy	Slovenia	1975	1992	Settlement
	Macedonia	Greece	1912	1993	Settlement

	Macedonia	Bulgaria	1919	1993	Settlement
	Greece	Bulgaria	1913	1990	Settlement
	Greece	Turkey	1923	1946	Settlement
	Cyprus	Turkey	N/A	1974	Joint Democracy
	Bulgaria	Turkey	1913	1990	Settlement
	Estonia	Latvia	Missing	1920	Unknown
	Latvia	Lithuania	Missing	1991	Unknown
	Finland	Sweden	1826	1917	Settlement
	Finland	Norway	1826	1917	Settlement
	Sweden	Norway	1660	1914	Settlement
	Namibia	Botswana	1890	1990	Settlement

Notes: †In this table, we include only dyads that are jointly democratic for the *entire* time period under consideration. *Denotes a dyad that may be considered a duplicate; these occur because of the unification of Germany and the dissolution of Czechoslovakia in the 1990-2001 period. Adjusting the figures in Table 1 to consolidate these dyads does not change the results presented in the text.

Appendix B: Robustness of Results

Part B.1. Results Using a Democracy Threshold of +5 on the Polity2 scale.

This section reproduces the analyses within the main text for all tables, using +5 as the threshold for democratic states instead of +6. Our main conclusions remain unchanged.

Table B.1.1. Temporal Relationship between Border Settlement and Joint Democracy in Jointly Democratic, Contiguous Dyads (Individual Dyads Presented in Appendix A)

Time Period	Border Settles before Joint Democracy	Joint Democracy before Border Settlement	Total
1816-2001	24 (82.76%)	3 (10.34%)	29*
1816-1944	1 (50.00%)	1 (50.00%)	2
1945-1989	13 (92.86%)	1 (7.14%)	14
1990-2001	66 (81.48%)	8 (9.88%)	81*

Notes: Row percentages do not add to 100% because this total includes: a) “simultaneous” cases, in which border settlement and joint democracy appear in the same dyad-year, and b) “unknown” border settlement dates. We therefore omit these dyads from the analysis because we cannot tell whether joint democracy or border settlement came first in these dyads.

Table B.1.1.A. Dyads Added to Appendix A by Lowering Democratic Threshold to +5.

Time Period	Added Dyads
1816-2001	France-West Germany
	Poland-Ukraine
	Hungary-Ukraine
	Slovakia-Ukraine
	Moldova-Romania
	Moldova-Ukraine
	Romania-Ukraine
	South Africa-Namibia
1816-1944	<i>No additions</i>
1945-1989	France-West Germany
1990-2001	Germany-Poland
	Poland-Czechoslovakia
	Poland-Ukraine
	Hungary-Romania
	Hungary-Ukraine
	Slovakia-Ukraine
	Bulgaria-Romania
	Moldova-Romania
	Moldova-Ukraine
	Romania-Ukraine
	South Africa-Namibia
	South Africa-Botswana
	India-Nepal

Table B.1.2. Border Settlement and Joint Democracy in Contiguous Dyads, 1816-2001.

	Mean (in Years)	Difference in Mean (t-value)
<i>Time spent as democratic dyad</i>		
Before border settlement	1.26	-4.28***
After border settlement	7.78	
<i>Time spent as non-democratic dyad</i>		
Before border settlement	24.72	-4.60***
After border settlement	38.35	
Obs.	Contiguous dyads	

Notes: *** $p < 0.01$.

Table B.1.3. Timing of Border Settlement and Joint Democracy in Contiguous Dyads, 1816-2001.

At:	How Many Years between Border Settlement and the <i>First</i> Appearance of Joint Democracy in each Dyad?
1 st Percentile	-8
10 th Percentile	0
25 th Percentile	34
50 th Percentile (Median)	70
75 th Percentile	92
90 th Percentile	121
99 th Percentile	265
Obs.	119

Notes: a) Positive values denote that border settlement occurs first in the dyad. b) Dyads only included in analysis if both events (i.e., border settlement and joint democracy) have occurred. c) Differences are left-censored at 1816.

Table B.1.4. Border Settlement and Joint Democracy in Non-Contiguous Dyads, 1919-2001.

	Dyads (count)	% Total
<i>Dyads</i>		
Border settlement before joint democracy	5,550	64.53%
Total dyads*	8,600	
<i>Dyad-Years</i>		
Border settlement before joint democracy	239,422	68.09%
Total dyads*	351,629	

*We remove from consideration dyads in which neither border settlement nor joint democracy occurred, as well as those that experienced both events at the same time. Temporal sequencing cannot be determined in these dyads.

Part B.2. Results Using First Appearance of Democracy.

To obtain our results, we use the first appearance of joint democracy as a notable cut point in a dyad's history. In this section, we consider whether the results change if we instead use the first appearance of democracy (+6 or higher on the Polity2 scale) within *any single dyad member* as the defining event. This essentially brings mixed dyads into the analysis. As the table below shows, our main conclusions remain unchanged by this alternative research design decision. The majority of contiguous states settle their borders before democracy first appears within any single dyad member.

Table B.2.1. Border Settlement and the First Appearance of Democracy in Contiguous Dyads.

	Dyads (count)	% Total
<i>Dyads</i>		
Border settlement before joint democracy	173	66.54%
Total dyads*	260	
<i>Dyad-Years</i>		
Border settlement before joint democracy	10,321	70.34%
Total dyads*	14,674	

*We omit dyad-years/dyads in which border settlement and democracy either: (a) never appeared, or (b) appeared simultaneously. In such dyads, a temporal ordering cannot be ascertained.