

Replication Instructions for “Forced To Be Free: Why Foreign-Imposed Regime Change Rarely Leads To Democratization”

Alexander B. Downes
George Washington University
downes@gwu.edu

Jonathan Monten
University of Oklahoma
jmonten@ou.edu

Updated March 8, 2013

Table of Contents

This document is a replication file for the article “Forced to Be Free: Why Foreign-Imposed Regime Change Rarely Leads to Democratization,” *International Security*, Vol. 37, No. 4 (Spring 2013). It contains replication instructions (Stata code) needed to reproduce the t-tests, regressions, figures, and robustness checks in the original article and in the online appendices for the article, “forced_free_appendices.pdf.” This file requires the following datasets:

- “firc_democratization_final.csv”
- “firc_autocracy_matched.csv”
- “firc_democracy_matched.csv”
- “firc_institutional_matched.csv”
- “firc_leadership_matched.csv”
- “firc_us_matched.csv”
- “firc_other_matched.csv”

All materials associated with the article—data, replication commands, and online appendices—may be downloaded from http://www.mitpressjournals.org/doi/suppl/10.1162/ISEC_a_00117, as well as from the research page of Alexander Downes’s web site at The George Washington University, <http://home.gwu.edu/~downes/publications.htm>.

Figure 1	3
Figure 2	3
Figure 3	4
Figure 4	6
Figure 5	8
Figure 6	10
Table 1	12
Table 3	16
Appendix C	17
Appendix D	18
Appendix E	24
Codebook	27

Figure 1. Polity Scores of Targets of Foreign-Imposed Regime Change (FIRC) One Year before and Ten Years after Intervention, 1900-2000

Use “firc_democratization_final”

```
ttest pol21lag==pol21lead10 if autfircer==1 & year>=1900, unpaired  
ttest pol21lag==pol21lead10 if demfircer==1 & year>=1900, unpaired  
ttest pol21lag==pol21lead10 if usfirc==1 & year>=1900, unpaired  
ttest pol21lag==pol21lead10 if otherdemfirc==1 & year>=1900, unpaired  
ttest pol21lag==pol21lead10 if dmzfirc==1 & year>=1900, unpaired  
ttest pol21lag==pol21lead10 if nondmzfirc==1 & year>=1900, unpaired
```

Figure 2. Average Yearly Effect of Foreign-Imposed Regime Change (FIRC) on the Probability of Transition to Consolidated Democracy in Ten Years Following Intervention, 1900-2000

Use “firc_democratization_final.csv”

```
ttest demtrans1lagnodem if year>=1900, by(autfircer10)  
ttest demtrans1lagnodem if year>=1900, by(demfircer10)  
ttest demtrans1lagnodem if year>=1900, by(usfirc10)  
ttest demtrans1lagnodem if year>=1900, by(otherdemfirc10)  
ttest demtrans1lagnodem if year>=1900, by(dmzfirc10)  
ttest demtrans1lagnodem if year>=1900, by(nondmzfirc10)
```

Figure 3. Marginal Effect of Institutional Foreign-Imposed Regime Change (FIRC) over Ten Years on Probability of Transition to Consolidated Democracy as Target’s Level of Economic Development (Log of Energy Consumption) Increases

Use “firc_democratization_final”

```
probit demtrans1 lagnodem dmzfirc10 lnenergy dmzfircenergy10 nondmzfirc10 yrcount
prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
preserve
drawnorm MF_b1-MF_b10, n(10000) means(e(b)) cov(e(V)) clear
postutil clear
postfile mypost prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi using sim, replace
noisily display "start"
local a=0
while `a' <= 15 {
quietly display "got here"
quietly {
scalar h_dmzfirc10=0
scalar h_lnenergy=0
scalar h_nondmzfirc10=0
scalar h_yrcount=64.51
scalar h_prevdemall=0
scalar h_britcol=0
scalar h_cw1000=0
scalar h_interwar=0
scalar h_constant=1
generate x_betahat0 = MF_b1*h_dmzfirc10 + MF_b2*(`a') + MF_b3*h_dmzfirc10*(`a') +
MF_b4*h_nondmzfirc10 + MF_b5*h_yrcount + MF_b6*h_prevdemall + MF_b7*h_britcol +
MF_b8*h_cw1000 + MF_b9*h_interwar + MF_b10*h_constant
generate x_betahat1 = MF_b1*(h_dmzfirc10 + 1) + MF_b2*(`a') + MF_b3*(h_dmzfirc10 +
1)*(`a') + MF_b4*h_nondmzfirc10 + MF_b5*h_yrcount + MF_b6*h_prevdemall +
MF_b7*h_britcol + MF_b8*h_cw1000 + MF_b9*h_interwar + MF_b10*h_constant
gen prob0=normal(x_betahat0)
gen prob1=normal(x_betahat1)
gen diff=prob1-prob0
egen probhat0=mean(prob0)
egen probhat1=mean(prob1)
egen diffhat=mean(diff)
tempname prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi
_pctile prob0, p(2.5,97.5)
scalar `lo0' = r(r1)
scalar `hi0' = r(r2)
_pctile prob1, p(2.5,97.5)
```

```

scalar `lo1`= r(r1)
scalar `hi1`= r(r2)
_pctile diff, p(2.5,97.5)
scalar `diff_lo`= r(r1)
scalar `diff_hi`= r(r2)
scalar `prob_hat0`=probhat0
scalar `prob_hat1`=probhat1
scalar `diff_hat`=diffhat
post mypost (`prob_hat0') (`lo0') (`hi0') (`prob_hat1') (`lo1') (`hi1') (`diff_hat') (`diff_lo')
(`diff_hi')
}
drop x_betahat0 x_betahat1 prob0 prob1 diff probhat0 probhat1 diffhat
local a=`a'+ 1
display "." _c
}
display ""
postclose mypost
use sim, clear
gen MV = _n - 1

graph twoway line diff_hat MV, clwidth(medium) clcolor(blue) clcolor(black) lwidth(vthick) ||
line diff_lo MV, clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || line diff_hi MV,
clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || , xlabel(0 3 6 9 12 15, labsz(2.5))
ylabel(-0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9, angle(horizontal) labsz(2.5)) yscale(line)
xscale(line) legend(off) yline(0, lcolor(black)) xtitle(energy consumption logged, size(3))
ytitle(marginal effect of institutional FIRC, size(3)) xsca(titlegap(2)) ysca(titlegap(2))
scheme(s2mono) graphregion(fcolor(white))

```

Figure 4. Marginal Effect of Leadership FIRC over Ten Years on Probability of Transition to Consolidated Democracy as Target’s Level of Economic Development (Log of Energy Consumption) Increases

Use “firc_democratization_final”

```
probit demtrans llnodem nondmzfirc10 lnenergy nondmzfircenergy10 dmzfirc10 yrcount
prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
preserve
drawnorm MF_b1-MF_b10, n(10000) means(e(b)) cov(e(V)) clear
postutil clear
postfile mypost prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi using sim, replace
noisily display "start"
local a=0
while `a' <= 15 {
    2. quietly display "got here"
    3. quietly {
    4. scalar h_nondmzfirc10=0
    5. scalar h_lnenergy=0
    6. scalar h_dmzfirc10=0
    7. scalar h_yrcount=64.51
    8. scalar h_prevdemall=0
    9. scalar h_britcol=0
    10. scalar h_cw1000=0
    11. scalar h_interwar=0
    12. scalar h_constant=1
    13. generate x_betahat0 = MF_b1*h_nondmzfirc10 + MF_b2*(`a') +
MF_b3*h_nondmzfirc10*(`a') + MF_b4*h_dmzfirc10 + MF_b5*h_yrcount +
MF_b6*h_prevdemall + MF_b7*h_britcol + MF_b8*h_cw1000 + MF_b9*h_interwar +
MF_b10*h_constant
    14. generate x_betahat1 = MF_b1*(h_nondmzfirc10 + 1) + MF_b2*(`a') +
MF_b3*(h_nondmzfirc10 + 1)*(`a') + MF_b4*h_dmzfirc10 + MF_b5*h_yrcount +
MF_b6*h_prevdemall + MF_b7*h_britcol + MF_b8*h_cw1000 + MF_b9*h_interwar +
MF_b10*h_constant
    15. gen prob0=normal(x_betahat0)
    16. gen prob1=normal(x_betahat1)
    17. gen diff=prob1-prob0
    18. egen probhat0=mean(prob0)
    19. egen probhat1=mean(prob1)
    20. egen diffhat=mean(diff)
    21. tempname prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi
    22. _pctile prob0, p(2.5,97.5)
    23. scalar `lo0' = r(r1)
```

```

24. scalar `hi0' = r(r2)
25. _pctile prob1, p(2.5,97.5)
26. scalar `lo1' = r(r1)
27. scalar `hi1' = r(r2)
28. _pctile diff, p(2.5,97.5)
29. scalar `diff_lo' = r(r1)
30. scalar `diff_hi' = r(r2)
31. scalar `prob_hat0' = probhat0
32. scalar `prob_hat1' = probhat1
33. scalar `diff_hat' = diffhat
34. post mypost (`prob_hat0') (`lo0') (`hi0') (`prob_hat1') (`lo1') (`hi1') (`diff_hat') (`diff_lo')
(`diff_hi')
35. }
36. drop x_betahat0 x_betahat1 prob0 prob1 diff probhat0 probhat1 diffhat
37. local a = `a' + 1
38. display "." _c
39. }

display ""
postclose mypost
use sim, clear
gen MV = _n - 1

graph twoway line diff_hat MV, clwidth(medium) clcolor(blue) clcolor(black) lwidth(vthick) ||
line diff_lo MV, clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || line diff_hi MV,
clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || , xlabel(0 3 6 9 12 15, labsize(2.5))
ylabel(-0.05 0 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55, angle(horizontal)
labsize(2.5)) yscale(line) xscale(line) legend(off) yline(0, lcolor(black)) xtitle(energy
consumption logged, size(3)) ytitle(marginal effect of leadership FIRC, size(3)) xsca(titlegap(2))
ysca(titlegap(2)) scheme(s2mono) graphregion(fcolor(white))

```

Figure 5. Marginal Effect of Institutional FIRC over Ten Years on Probability of Transition to Consolidated Democracy as Target's Level of Ethnic Heterogeneity Increases

Use "firc_democratization_final"

```
probit demtrans llnodem dmzfire10 elfroeder dmzfirelf10 nondmzfire10 yrcount lnenergy  
prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
preserve  
drawnorm MF_b1-MF_b11, n(10000) means(e(b)) cov(e(V)) clear  
postutil clear  
postfile mypost prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi using sim, replace  
local a=0  
while `a' <= 1 {  
  2. quietly display "got here"  
  3. quietly {  
    4. scalar h_dmzfire10=0  
    5. scalar h_elfroeder=0  
    6. scalar h_nondmzfire10=0  
    7. scalar h_yrcount=64.51  
    8. scalar h_lnenergy=7.31  
    9. scalar h_prevdemall=0  
    10. scalar h_britcol=0  
    11. scalar h_cw1000=0  
    12. scalar h_interwar=0  
    13. scalar h_constant=1  
    14. generate x_betahat0 = MF_b1*h_dmzfire10 + MF_b2*(`a') + MF_b3*h_dmzfire10*(`a') +  
MF_b4*h_nondmzfire10 + MF_b5*h_yrcount + MF_b6*h_lnenergy + MF_b7*h_prevdemall +  
MF_b8*h_britcol + MF_b9*h_cw1000 + MF_b10*h_interwar + MF_b11*h_constant  
    15. generate x_betahat1 = MF_b1*(h_dmzfire10 + 1) + MF_b2*(`a') + MF_b3*(h_dmzfire10 +  
1)*(`a') + MF_b4*h_nondmzfire10 + MF_b5*h_yrcount + MF_b6*h_lnenergy +  
MF_b7*h_prevdemall + MF_b8*h_britcol + MF_b9*h_cw1000 + MF_b10*h_interwar +  
MF_b11*h_constant  
    16. gen prob0=normal(x_betahat0)  
    17. gen prob1=normal(x_betahat1)  
    18. gen diff=prob1-prob0  
    19. egen probhat0=mean(prob0)  
    20. egen probhat1=mean(prob1)  
    21. egen diffhat=mean(diff)  
    22. tempname prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi  
    23. _pctile prob0, p(2.5,97.5)  
    24. scalar `lo0' = r(r1)  
    25. scalar `hi0' = r(r2)  
    26. _pctile prob1, p(2.5,97.5)
```



```

27. scalar `lo1'= r(r1)
28. scalar `hi1'= r(r2)
29. _pctile diff, p(2.5,97.5)
30. scalar `diff_lo'= r(r1)
31. scalar `diff_hi'= r(r2)
32. scalar `prob_hat0'=probhat0
33. scalar `prob_hat1'=probhat1
34. scalar `diff_hat'=diffhat
35. post mypost (`prob_hat0') (`lo0') (`hi0') (`prob_hat1') (`lo1') (`hi1') (`diff_hat') (`diff_lo')
(`diff_hi')
36. }
37. drop x_betahat0 x_betahat1 prob0 prob1 diff probhat0 probhat1 diffhat
38. local a=`a'+ .05
39. display "." _c
40. }

```

```

display ""
postclose mypost
use sim, clear
gen MV = (_n - 1)/20

```

```

graph twoway line diff_hat MV, clwidth(medium) clcolor(blue) clcolor(black) lwidth(vthick) ||
line diff_lo MV, clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || line diff_hi MV,
clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || , xlabel(0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1,
labsize(2.5)) ylabel(-.1 0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1, angle(horizontal) labsize(2.5)) yscale(line)
xscale(line) legend(off) yline(0, lcolor(black)) xtitle(ethnolinguistic fractionalization, size(3))
ytitle(marginal effect of institutional FIRC, size(3)) xsca(titlegap(2)) ysca(titlegap(2))
scheme(s2mono) graphregion(fcolor(white))

```

Figure 6. Marginal Effect of Leadership FIRC over Ten Years on Probability of Transition to Consolidated Democracy as Target's Level of Ethnic Heterogeneity Increases

Use "firc_democratization_final"

```
probit demtrans llnodem nondmzfirc10 elfroeder nondmzfircelf10 dmzfirc10 yrcount lnenergy
prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
preserve
drawnorm MF_b1-MF_b11, n(10000) means(e(b)) cov(e(V)) clear
postutil clear
postfile mypost prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi using sim, replace
local a=0
while `a' <= 1 {
    2. quietly display "got here"
    3. quietly {
    4. scalar h_nondmzfirc10=0
    5. scalar h_elfroeder=0
    6. scalar h_dmzfirc10=0
    7. scalar h_yrcount=64.51
    8. scalar h_lnenergy=7.31
    9. scalar h_prevdemall=0
    10. scalar h_britcol=0
    11. scalar h_cw1000=0
    12. scalar h_interwar=0
    13. scalar h_constant=1
    14. generate x_betahat0 = MF_b1*h_nondmzfirc10 + MF_b2*(`a') +
MF_b3*h_nondmzfirc10*(`a') + MF_b4*h_dmzfirc10 + MF_b5*h_yrcount +
MF_b6*h_lnenergy + MF_b7*h_prevdemall + MF_b8*h_britcol + MF_b9*h_cw1000 +
MF_b10*h_interwar + MF_b11*h_constant
    15. generate x_betahat1 = MF_b1*(h_nondmzfirc10 + 1) + MF_b2*(`a') +
MF_b3*(h_nondmzfirc10 + 1)*(`a') + MF_b4*h_dmzfirc10 + MF_b5*h_yrcount +
MF_b6*h_lnenergy + MF_b7*h_prevdemall + MF_b8*h_britcol + MF_b9*h_cw1000 +
MF_b10*h_interwar + MF_b11*h_constant
    16. gen prob0=normal(x_betahat0)
    17. gen prob1=normal(x_betahat1)
    18. gen diff=prob1-prob0
    19. egen probhat0=mean(prob0)
    20. egen probhat1=mean(prob1)
    21. egen diffhat=mean(diff)
    22. tempname prob_hat0 lo0 hi0 prob_hat1 lo1 hi1 diff_hat diff_lo diff_hi
    23. _pctile prob0, p(2.5,97.5)
    24. scalar `lo0' = r(r1)
    25. scalar `hi0' = r(r2)
```

```

26. _pctile prob1, p(2.5,97.5)
27. scalar `lo1'= r(r1)
28. scalar `hi1'= r(r2)
29. _pctile diff, p(2.5,97.5)
30. scalar `diff_lo'= r(r1)
31. scalar `diff_hi'= r(r2)
32. scalar `prob_hat0'=probhat0
33. scalar `prob_hat1'=probhat1
34. scalar `diff_hat'=diffhat
35. post mypost (`prob_hat0') (`lo0') (`hi0') (`prob_hat1') (`lo1') (`hi1') (`diff_hat') (`diff_lo')
(`diff_hi')
36. }
37. drop x_betahat0 x_betahat1 prob0 prob1 diff probhat0 probhat1 diffhat
38. local a=`a'+ .05
39. display "." _c
40. }

```

```

display ""
postclose mypost
use sim, clear
gen MV = (_n - 1)/20

```

```

graph twoway line diff_hat MV, clwidth(medium) clcolor(blue) clcolor(black) lwidth(vthick) ||
line diff_lo MV, clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || line diff_hi MV,
clpattern(dash) clwidth(thin) clcolor(black) lwidth(vthick) || , xlabel(0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1,
labsize(2.5)) ylabel(-.03 0 .03 .06 .09 .12 .15 .18, angle(horizontal) labsize(2.5)) yscale(line)
xscale(line) legend(off) yline(0, lcolor(black)) xtitle(ethnolinguistic fractionalization, size(3))
ytitle(marginal effect of leadership FIRC, size(3)) xsca(titlegap(2)) ysca(titlegap(2))
scheme(s2mono) graphregion(fcolor(white))

```

Table 1. The Effect of Foreign-Imposed Regime Change (FIRC) on Target Democratization, 1900-2000

For Columns 1 and 3, use “firc_democratization_final”

Column 1, Rows 1-2 (FIRC by nondemocracies and democracies)

prais pol21_ch1lag outfircer10 demfircer10 yrcount lnenergy prevdemall britcol cw1000
interwar if year>=1900, robust cluster(ccode)

Column 1, Rows 3-4 (institutional and leadership FIRC)

prais pol21_ch1lag dmzfirc10 nondmzfirc10 yrcount lnenergy prevdemall britcol cw1000
interwar if year>=1900, robust cluster(ccode)

Column 1, Rows 5-6 (FIRC by the United States and by democracies other than the United States)

prais pol21_ch1lag usfirc10 otherdemfirc10 yrcount lnenergy prevdemall britcol cw1000
interwar if year>=1900, robust cluster(ccode)

Column 3, Rows 1-2 (FIRC by nondemocracies and democracies)

relogit demtrans1lagnodem outfircer10 demfircer10 yrcount lnenergy prevdemall britcol cw1000
interwar if year>=1900, cluster(ccode)

Column 3, Rows 3-4 (institutional and leadership FIRC)

relogit demtrans1lagnodem dmzfirc10 nondmzfirc10 yrcount lnenergy prevdemall britcol
cw1000 interwar if year>=1900, cluster(ccode)

Column 3, Rows 5-6 (FIRC by the United States and by democracies other than the United States)

relogit demtrans1lagnodem usfirc10 otherdemfirc10 yrcount lnenergy prevdemall britcol cw1000
interwar if year>=1900, cluster(ccode)

For Columns 2 and 4, use individual matched datasets as noted

Column 2, Row 1 (FIRC by nondemocracies)

Use “firc_autocracy_matched”

prais pol21_ch1lag autfircer10 yrcount lnenergy prevdemall britcol cw1000 interwar elfroeder
lntpop, robust cluster(ccode)

Column 2, Row 2 (FIRC by democracies)

Use “firc_democracy_matched”

prais pol21_ch1lag demfircer10 yrcount lnenergy prevdemall britcol cw1000 interwar elfroeder
lntpop, robust cluster(ccode)

Column 2, Row 3 (institutional FIRC)

Use “firc_institutional_matched”

prais pol21_ch1lag dmzfirc10 yrcount lnenergy prevdemall britcol cw1000 interwar elfroeder
lntpop, robust cluster(ccode)

NOTE: britcol dropped

Column 2, Row 4 (leadership FIRC)

Use “firc_leadership_matched”

prais pol21_ch1lag nondmzfirc10 yrcount lnenergy prevdemall britcol cw1000 interwar
elfroeder lntpop, robust cluster(ccode)

Column 2, Row 5 (FIRC by the United States)

Use “firc_us_matched”

prais pol21_ch1lag usfirc10 yrcount lnenergy prevdemall britcol cw1000 interwar elfroeder
lntpop, robust cluster(ccode)

NOTE: britcol dropped

Column 2, Row 6 (FIRC by democracies other than the United States)

Use “firc_other_matched”

prais pol21_ch1lag otherdemfirc10 yrcount lnenergy prevdemall britcol cw1000 interwar
elfroeder lntpop, robust cluster(ccode)

Column 4, Row 1 (FIRC by nondemocracies)

Use “firc_autocracy_matched”

relogit demtrans1lagnodem autfircer10 yrcount lnenergy prevdemall britcol cw1000 interwar
elfroeder lntpop, cluster(ccode)

Column 4, Row 2 (FIRC by democracies)

Use “firc_democracy_matched”

relogit demtrans1lagnodem demfircer10 yrcount lnenergy prevdemall britcol cw1000 elfroeder
lntpop, cluster(ccode)

NOTE: interwar dropped

Column 4, Row 3 (institutional FIRC)

Use “firc_institutional_matched”

relogit demtrans1lagnodem dmzfirc10 yrcount lnenergy prevdemall cw1000 elfroeder lntpop,
cluster(ccode)

NOTE: britcol and interwar dropped

Column 4, Row 4 (leadership FIRC)

Use “firc_leadership_matched”

relogit demtrans1lagnodem nondmzfirc10 yrcount lnenergy prevdemall britcol cw1000 interwar
elfroeder lntpop, cluster(ccode)

Column 4, Row 5 (FIRC by the United States)

Use “firc_us_matched”

relogit demtrans1lagnodem usfirc10 yrcount lnenergy prevdemall cw1000 elfroeder lntpop,
cluster(ccode)

NOTE: britcol and interwar dropped

Column 4, Row 6 (FIRC by democracies other than the United States)

Use "firc_other_matched"

relogit demtrans1lagnodem otherdemfirc10 yrcount lnenergy prevdemall britcol interwar
elfroeder lntpop, cluster(ccode)

NOTE: cw1000 dropped

Table 3. The Effect of Previous Democracy and Type of Foreign-Imposed Regime Change (FIRC) on the Probability of Transitions to Democracy, 1900-2000

Use “firc_democratization_final”

```
ttest demtrans1lagnodem if prevdemall==1 & year>=1900, by(dmzfirc10)
ttest demtrans1lagnodem if prevdemall==0 & year>=1900, by(dmzfirc10)
ttest demtrans1lagnodem if prevdemall==1 & year>=1900, by(nondmzfirc10)
ttest demtrans1lagnodem if prevdemall==0 & year>=1900, by(nondmzfirc10)
```


Appendix C. Multivariate Regression Analyses: Complete Tables

Appendix C in the online appendices includes three tables that contain the complete regression output for Table 1 in the published article. All replication commands for these tables appear above under “Table 1.”

Appendix D: Conditional Effects

Appendix D in the online appendices contains regression output, figures, and t-tests for the conditional hypotheses in the article:

H1: The effect of institutional FIRC on democratization increases as targets' level of economic development increases.

H2: The effect of institutional FIRC on democratization increases as targets' level of ethnic homogeneity increases.

H3: The effect of institutional FIRC on democratization is greater if targets have previous experience with democracy.

Commands to produce figures 3 through 6 and table 3 in the article—which used transition to consolidated democracy as the dependent variable—appear above. In appendix D, however, we also showed regression output (table D3), figures (D5 through D9), and a table (D4) performing the same tests with change in Polity score as the dependent variable. Here are the commands necessary to reproduce these materials.

Figure D5 (model 1 in table D3). Marginal Effect of Institutional Foreign-Imposed Regime Change (FIRC) over Ten Years on Change in Polity Score as Target's Level of Economic Development (Log of Energy Consumption) Increases

Use "firc_democratization_final"

```
prais pol21_ch1lag dmzfirc10 lnenergy dmzfircenergy10 nondmzfirc10 yrcount prevdemall  
britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output omitted]

```
generate MV = ((_n-1)/10)  
replace MV = . if _n>150  
matrix b = e(b)  
matrix V = e(V)  
scalar b1 = b[1,1]  
scalar b2 = b[1,2]  
scalar b3 = b[1,3]  
scalar varb1 = V[1,1]  
scalar varb2 = V[2,2]  
scalar varb3 = V[3,3]  
scalar covb1b3 = V[1,3]  
scalar covb2b3 = V[2,3]  
scalar list b1 b2 b3 varb1 varb2 varb3 covb1b3 covb2b3  
  
gen conb = b1 + b3*MV if _n<150  
gen conse = sqrt(varb1 + varb3*(MV*MV) + 2*covb1b3*MV) if _n<150  
gen a = 1.96*conse  
gen upper = conb+a  
gen lower = conb-a  
  
graph twoway line conb MV, clwidth(medium) clcolor(blue) clcolor(black) || line upper MV,  
clpattern(dash) clwidth(thin) clcolor(black) || line lower MV, clpattern(dash) clwidth(thin)  
clcolor(black) ||, xlabel(0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15, labsize(2.5)) ylabel(-1 -0.5 0 0.5 1  
1.5 2 2.5 3, labsize(2.5)) yscale(line) xscale(line) legend(off) yline(0, lcolor(black))  
xtitle(Economic Development, size(3)) ytitle(Marginal Effect of Institutional FIRC, size(3))  
scheme(s2mono) graphregion(fcolor (white))
```

Figure D6 (model 2 in table D3). Marginal Effect of Leadership Foreign-Imposed Regime Change (FIRC) over Ten Years on Change in Polity Score as Target's Level of Economic Development (Log of Energy Consumption) Increases

Use "firc_democratization_final"

```
prais pol21_ch1lag nondmzfirc10 lnenergy nondmzfircenergy10 dmzfirc10 yrcount prevdemall  
britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
generate MV = ((_n-1)/10)  
replace MV = . if _n>150  
matrix b = e(b)  
matrix V = e(V)  
scalar b1 = b[1,1]  
scalar b2 = b[1,2]  
scalar b3 = b[1,3]  
scalar varb1 = V[1,1]  
scalar varb2 = V[2,2]  
scalar varb3 = V[3,3]  
scalar covb1b3 = V[1,3]  
scalar covb2b3 = V[2,3]  
scalar list b1 b2 b3 varb1 varb2 varb3 covb1b3 covb2b3  
gen conb = b1 + b3*MV if _n<150  
gen conse = sqrt(varb1 + varb3*(MV*MV) + 2*covb1b3*MV) if _n<150  
gen a = 1.96*conse  
gen upper = conb+a  
gen lower = conb-a
```

```
graph twoway line conb MV, clwidth(medium) clcolor(blue) clcolor(black) || line upper MV,  
clpattern(dash) clwidth(thin) clcolor(black) || line lower MV, clpattern(dash) clwidth(thin)  
clcolor(black) ||, xlabel(0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15, labsize(2.5)) ylabel(-1 -0.75 -0.5 -  
0.25 0 0.25 0.5 0.75, labsize(2.5)) yscale(line) xscale(line) legend(off) yline(0, lcolor(black))  
xtitle(Economic Development, size(3)) ytitle(Marginal Effect of Leader FIRC, size(3))  
scheme(s2mono) graphregion(fcolor (white))
```

Figure D7 (model 3 in table D3). Marginal Effect of Institutional Foreign-Imposed Regime Change (FIRC) over Ten Years on Change in Polity Score as Target's Level of Ethnic Heterogeneity Increases

Use "firc_democratization_final"

```
prais pol21_ch1lag dmzfirc10 elfroeder dmzfircelf10 nondmzfirc10 yrcount lnenergy prevdemall  
britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
gen MV = ((_n-1)/50)  
replace MV = . if _n>50  
matrix b = e(b)  
matrix V = e(V)  
scalar b1 = b[1,1]  
scalar b2 = b[1,2]  
scalar b3 = b[1,3]  
scalar varb1 = V[1,1]  
scalar varb2 = V[2,2]  
scalar varb3 = V[3,3]  
scalar covb1b3 = V[1,3]  
scalar covb2b3 = V[2,3]  
scalar list b1 b2 b3 varb1 varb2 varb3 covb1b3 covb2b3  
  
gen conb = b1 + b3*MV if _n<50  
gen conse = sqrt(varb1 + varb3*(MV*MV) + 2*covb1b3*MV) if _n<50  
gen a = 1.96*conse  
gen upper = conb+a  
gen lower = conb-a  
  
graph twoway line conb MV, clwidth(medium) clcolor(blue) clcolor(black) || line upper MV,  
clpattern(dash) clwidth(thin) clcolor(black) || line lower MV, clpattern(dash) clwidth(thin)  
clcolor(black) ||, xlabel(0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1, labsize(2.5)) ylabel(-7 -6 -5 -4 -3 -2 -1 0 1 2 3  
4 5 6 7 8, labsize(2.5)) yscale(line) xscale(line) legend(off) yline(0, lcolor(black))  
xtitle(Ethnolinguistic Fractionalization, size(3)) ytitle(Marginal Effect of Institutional FIRC,  
size(3)) scheme(s2mono) graphregion(fcolor(white))
```

Figure D8 (model 4 in table D3). Marginal Effect of Leadership Foreign-Imposed Regime Change (FIRC) over Ten Years on Change in Polity Score as Target's Level of Ethnic Heterogeneity Increases

Use "firc_democratization_final"

```
prais pol21_ch1lag nondmzfirc10 elfroeder nondmzfircelf10 dmzfirc10 yrcount lnenergy  
prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

[regression output suppressed]

```
gen MV = ((_n-1)/50)  
replace MV = . if _n>50  
matrix b = e(b)  
matrix V = e(V)  
scalar b1 = b[1,1]  
scalar b2 = b[1,2]  
scalar b3 = b[1,3]  
scalar varb1 = V[1,1]  
scalar varb2 = V[2,2]  
scalar varb3 = V[3,3]  
scalar covb1b3 = V[1,3]  
scalar covb2b3 = V[2,3]  
scalar list b1 b2 b3 varb1 varb2 varb3 covb1b3 covb2b3  
  
gen conb = b1 + b3*MV if _n<50  
gen conse = sqrt(varb1 + varb3*(MV*MV) + 2*covb1b3*MV) if _n<50  
gen a = 1.96*conse  
gen upper = conb+a  
gen lower = conb-a
```

```
graph twoway line conb MV, clwidth(medium) clcolor(blue) clcolor(black) || line upper MV,  
clpattern(dash) clwidth(thin) clcolor(black) || line lower MV, clpattern(dash) clwidth(thin)  
clcolor(black) ||, xlabel(0 .1 .2 .3 .4 .5 .6 .7 .8 .9 1, labsize(2.5)) ylabel(-1 -0.75 -0.5 -0.25 0 0.25  
0.5 0.75, labsize(2.5)) yscale(line) xscale(line) legend(off) yline(0, lcolor(black))  
xtitle(Ethnolinguistic Fractionalization, size(3)) ytitle(Marginal Effect of Leader FIRC, size(3))  
scheme(s2mono) graphregion(fcolor(white))
```

Table D4. The Effect of Previous Democracy and Type of Foreign-Imposed Regime Change (FIRC) on Change in Polity Score, 1900-2000

Use “firc_democratization_final”

```
ttest pol21_ch1lag if prevdemall==1 & year>=1900, by(dmzfirc10)
ttest pol21_ch1lag if prevdemall==0 & year>=1900, by(dmzfirc10)
ttest pol21_ch1lag if prevdemall==1 & year>=1900, by(nondmzfirc10)
ttest pol21_ch1lag if prevdemall==0 & year>=1900, by(nondmzfirc10)
```

Appendix E. Robustness Checks

Appendix E in the online appendices contains a series of robustness checks. For a complete description of these checks, see Appendix E.

TABLE E1. The Effect of Foreign-Imposed Regime Change (FIRC) on Target Democratization, 1900-2000: Five Year Treatment Window

Use “firc_democratization_final”

```
prais pol21_ch1lag autfircer5 demfircer5 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

```
prais pol21_ch1lag dmzfire5 nondmzfire5 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

```
prais pol21_ch1lag usfire5 otherdemfire5 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, robust cluster(ccode)
```

```
relogit demtrans1lag_nodem autfircer5 demfircer5 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, cluster(ccode)
```

```
relogit demtrans1lag_nodem dmzfire5 nondmzfire5 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, cluster(ccode)
```

```
relogit demtrans1lag_nodem usfire5 otherdemfire5 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, cluster(ccode)
```

TABLE E2. The Effect of Foreign-Imposed Regime Change (FIRC) on Probability of Democratic Transition, 1900-2000: Three Year Rule for Coding Transitions

```
relogit demtrans1lag_3nodem autfircer10 demfircer10 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, cluster(ccode)
```

```
relogit demtrans1lag_3nodem dmzfire10 nondmzfire10 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, cluster(ccode)
```

```
relogit demtrans1lag_3nodem usfire10 otherdemfire10 yrcount lnenergy prevdemall britcol cw1000 interwar if year>=1900, cluster(ccode)
```


TABLE E3. The Effect of Foreign-Imposed Regime Change (FIRC) on Target Democratization, 1900-2000: Vanhanen's Polyarchy Data

```
prais id_ch1lag outfircer10 demfircer10 yrcount lnenergy britcol cw1000 interwar if  
year>=1900, robust cluster(ccode)
```

```
prais id_ch1lag dmzfirc10 nondmzfirc10 yrcount lnenergy britcol cw1000 interwar if  
year>=1900, robust cluster(ccode)
```

```
prais id_ch1lag usfirc10 otherdemfirc10 yrcount lnenergy britcol cw1000 interwar if  
year>=1900, robust cluster(ccode)
```

```
relogit vandemtrans1lagnodem outfircer10 demfircer10 yrcount lnenergy britcol cw1000  
interwar if year>=1900, cluster(ccode)
```

```
relogit vandemtrans1lagnodem dmzfirc10 nondmzfirc10 yrcount lnenergy britcol cw1000  
interwar if year>=1900, cluster(ccode)
```

```
relogit vandemtrans1lagnodem usfirc10 otherdemfirc10 yrcount lnenergy britcol cw1000  
interwar if year>=1900, cluster(ccode)
```

TABLE E4. The Effect of Foreign-Imposed Regime Change (FIRC) on Target Polity Scores over Ten Years: Cross-Sectional Time Series Models with Fixed Effects

```
xtreg pol21lead10 outfircer10 demfircer10 pol21lag yrcount lnenergy prevdemall cw1000  
interwar, fe i(ccode)
```

```
xtreg pol21lead10 dmzfirc10 nondmzfirc10 pol21lag yrcount lnenergy prevdemall cw1000  
interwar, fe i(ccode)
```

```
xtreg pol21lead10 usfirc10 otherdemfirc10 pol21lag yrcount lnenergy prevdemall cw1000  
interwar, fe i(ccode)
```

TABLE E5. The Effect of Foreign-Imposed Regime Change (FIRC) on Target Democratization, 1900-2000: Re-coding Allied FIRCs at the End of World War II

```
prais pol21_ch1lag dmzfirc10ww2 nondmzfirc10ww2 yrcount lnenergy prevdemall britcol  
cw1000 interwar if year>=1900, robust cluster(ccode)
```

```
relogit demtrans1lagnodem dmzfirc10ww2 nondmzfirc10ww2 yrcount lnenergy prevdemall  
britcol cw1000 interwar if year>=1900, cluster(ccode)
```

Codebook

Variable	Description
ccode	COW country code
year	Year
abbrev	COW abbreviation of country name
firestate	State experienced FIRC at some point between 1816 and 2008
demfircer	State experienced FIRC by a democratic intervener in that year
demfircer5	State experienced FIRC by a democratic intervener within the previous 5 years
demfircer10	State experienced FIRC by a democratic intervener within the previous 10 years
autfircer	State experienced FIRC by a non-democratic intervener in that year
autfircer5	State experienced FIRC by a non-democratic intervener within the previous 5 years
autfircer10	State experienced FIRC by a non-democratic intervener within the previous 10 years
dmzfire	State experienced an institutional FIRC in that year: intervener is a democracy that makes concrete efforts to promote democracy after FIRC
dmzfire5	State experienced an institutional FIRC within the previous 5 years
dmzfire10	State experienced an institutional FIRC within the previous 10 years
nondmzfire	State experienced a leadership FIRC in that year: intervener is a democracy that does not attempt to promote democracy after FIRC
nondmzfire5	State experienced a leadership FIRC within the previous 5 years
nondmzfire10	State experienced a leadership FIRC within the previous 10 years
usfire	State experienced a FIRC by the United States in that year

usfirc5	State experienced a FIRC by the United States within the previous 5 years
usfirc10	State experienced a FIRC by the United States within the previous 10 years
otherdemfirc	State experienced a FIRC by a democracy other than the United States in that year
otherdemfirc5	State experienced a FIRC by a democracy other than the United States within the previous 5 years
otherdemfirc10	State experienced a FIRC by a democracy other than the United States within the previous 10 years
yrcount	State age; number of years since independence or 1816 if state was independent prior to that date
lnenergy	Natural log of energy consumption (plus one; from Correlates of War National Material Capabilities data, v. 3.02)
prevdemall	Target was previously a democracy according to Polity index
britcol	State was at one point a British colony (League of Nations mandates, such as Iraq, included)
cw1000	Civil war was ongoing in that year
interwar	State is involved in an interstate war ¹
elfroeder	Ethnolinguistic fractionalization ²
lnpop	Log of target's population (from Correlates of War National Material Capabilities data, v. 3.02)
pol21lag	Target's Polity score (1 to 21) in prior year
pol21	Polity score (1 to 21)
region1	Europe
region2	North Africa and Middle East

¹ From Alexander B. Downes, *Targeting Civilians in War* (Ithaca, N.Y.: Cornell University Press).

² From Philip G. Roeder, "Ethnolinguistic Fractionalization Indices, 1961 and 1985," February 16, 2001, <http://weber.ucsd.edu/~proeder/elf.htm>.

region3	Sub-Saharan Africa
region4	Asia
region5	Americas
dmzfireenergy10	Institutional FIRC × Log of energy consumption
nondmzfireenergy10	Leadership FIRC × Log of energy consumption
dmzfireelf10	Institutional FIRC × Ethnolinguistic fractionalization
nondmzfireelf10	Leadership FIRC × Ethnolinguistic fractionalization
pol21_ch1lag	Change in state's Polity score from prior year to year of observation
demtrans1lagodem	State experienced a democratic transition (moved from less than +17 on Polity index to +17 or above) in year of observation, with states that are already democracies coded as missing
demtrans1lag_3nodem	State experienced a democratic transition (moved from less than +17 on Polity index to +17 or above) that lasted at least 3 years in year of observation, with states that are already democracies coded as missing
pol21lead10	Polity score (on scale of 1 to 21) of state ten years after year of observation
id_ch1lag	Change in level of democracy from prior year to year of observation, from Vanhanen's <i>Polyarchy</i> dataset ³
vandemtrans1lagodem	State experienced a democratic transition in year of observation according to Vanhanen's <i>Polyarchy</i> dataset, with states that are already democracies coded as missing

³ Tatu Vanhanen, "A New Dataset for Measuring Democracy, 1810-1998," *Journal of Peace Research*, Vol. 37, No. 2 (March 2000), pp. 251-265.