
```
name: <unnamed>
log: /Users/Promachos/Dropbox (Personal)/TransformationEmpiricalModels
> /Replication/dataverse_files_2/STC_STATA_Log.smcl
log type: smcl
opened on: 26 Apr 2024, 15:40:27
```

```
1 . do STC_STATA_Rep_All.do

2 . *****
> *****
3 .
4 . * Replication file for:
5 . * Foster, 'Subject to Change: Quantifying Transformation in Armed Conflict A
> ctors'
6 . * This file compares inclusion criteria for minimum numbers of articles per
> group/year
7 . * Includes a replication of
8 . * 'The Intractability of Islamist Insurgencies: Islamist Rebels and the Recu
> rrence of Civil War"
9 . * Desiree Nilsson & Isak Svensson, International Studies Quarterly
10 . *****
> *****/
11 .
12 . * Replication of Termination results (Manuscript Fig 6, Appendix Fig 11:
13 . * Replication of Recurrence results (in Appendix Fig 14, 15)
14 .
15 . do STC_STATA_Replication.do

16 .
17 . *****
> *****
18 .
19 . *Replication for
```

```

20 . *"Subject to Change: Quantifying Transformation in Armed Conflict Actors At
    > Scale Using Text"
21 . *Margaret J. Foster
22 . *Last updated: December 5, 2023
23 .
24 . *The project extends Desirée Nilsson & Isak Svensson's "The Intractability o
    > f Islamist Insurgencies:
25 . * Islamist Rebels and the Recurrence of Civil War"
26 . *International Studies Quarterly
27 .
28 . *As such, the analysis closely follows their replication scripts
29 . *(Note that dyadep 18502 has been replaced with 28502 due to an error in ori
    > ginal termination data)
30 .
31 . *****/
    > *****/
32 .
33 . clear all

34 .
35 . *To run the do-file you need to install the following:
36 .
37 . *1. To generate summary statistics:
38 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

39 .
40 . *2. To generate graphs:
41 . ssc install blindschemes, replace all
    checking blindschemes consistency and verifying not already installed...
    all files already exist and are up to date.

42 . set scheme plottig, permanently
    (set scheme preference recorded)

```

```

43 .
44 . *3. To generate tables:
45 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

46 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

47 .
48 . * Latex code
49 . ssc install estout, replace
    checking estout consistency and verifying not already installed...
    all files already exist and are up to date.

50 .
51 . * Coefplot
52 . ssc install coefplot
    checking coefplot consistency and verifying not already installed...
    all files already exist and are up to date.

53 .
54 . *****
    > *****
55 . * set working directory:
56 . * MJF: Set to Replication directory; I'm using my own throughtout
57 .
58 . * load data:
59 . use "./data/terminationplus.dta"

60 .
61 . sort dyadid year

```

```

62 .
63 . *****
64 . * STSET FOR SURVIVAL ANALYSIS
65 . *****
66 .
67 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
  > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
                   Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

68 .
69 . *****
70 . * CREATE LABELS
71 . *****

```

72 .
73 . label variable term "Termination"

74 . label variable islamist "Islamist claim"

75 . label variable counter "Years From Change"

76 . label variable delta1 "Change Year, Delta 1"
77 . label variable delta1 "Change Year, Delta 1"

78 . label variable delta1_L2 "Change in Prev 2 years"

79 . label variable numchanges "Change Frequency"

80 . label variable haddelta1 "Had Change |1|"
81 . label variable haddelta15 "Had Change |1.5|"
82 . label variable haddelta2 "Had Change |2|"

83 . label variable territory "Territory"

84 . label variable duration "Duration"

85 . label variable intensitylevel "War"

86 . label variable number_group "Number of groups"

87 . label variable strongstart "Strong rebels"

88 . label variable anostart "Anocracy"

89 . label variable lngdppcstart "GDP per capita"

```

90 . label variable lnpopstart "Population"
91 . label variable muslimajstart "Muslim majority"
92 . label variable oilstart "Oil"
93 . label variable youthstartap "Youth bulge/adult pop."
94 . label variable anocracy "Anocracy over time"
95 . label variable lngdppc "GDP per capita over time"
96 . label variable lnpop "Population over time"
97 . label variable foreignfighter "Foreign fighters"
98 . label variable govmlsupport "Government support"
99 . label variable leftist "Leftist"
100 . label variable nonislamistrel "Non-Islamist religious claims"
101 . label variable muslimid "Muslim identity"
102 . label variable secsup_govgov "Government secondary support"
103 . label variable rebextpartdummy "Rebel support"
104 .
105 .
106 . *****
107 . * Summary of new variables
108 . *****
109 .

```

```
110 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2
```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	1,118	.1127013	.3163688	0	1
delta1_L2	1,118	.2003578	.4004472	0	1
numchanges	1,114	1.061041	1.166256	0	4
counter	1,118	.8300537	2.057306	0	16
haddelta1	1,229	.5288853	.4993681	0	1
haddelta15	1,229	.3303499	.4705305	0	1
haddelta2	1,229	.1635476	.3700151	0	1

```
111 .
```

```
112 . *****
```

```
113 . * CONTROL VARIABLES
```

```
114 . *****
```

```
115 .
```

```
116 . global X1 territory strongstart oilstart youthstartap muslimajstart
```

```
117 . global X2 _yrs _yrs_sq _yrs_cu
```

```
118 .
```

```
119 . *****
```

```
120 . * Manuscript Figure 6 and Appendix Figure 11
```

```
121 . *****
```

```
122 .
```

```
123 . *Model 1- Replication*
```

```
124 .
```

```
125 . stcox islamist $X1, cluster(dyadid) strata(order) nolog
```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

Number of obs = 1,020

No. of failures = **320**

Time at risk = 1,314.7078

Wald chi2(6) = 20.45

Prob > chi2 = 0.0023

Log pseudolikelihood = **-1125.1127**

(Std. err. adjusted for 229 clusters in **dyadid**)

 $\geq)$

> -

_t	Haz. ratio	std. err.	z	P> z	[95% conf. interval
----	------------	-----------	---	------	---------------------

 ≥ 1

> -

islamist	.5919864	.0879443	-3.53	0.000	.4424447	.792071
----------	----------	----------	-------	-------	----------	---------

> 8

territory	1.291421	.1592884	2.07	0.038	1.014093	1.64459
-----------	----------	----------	------	-------	----------	---------

> 2

strongstart	.8742423	.1109606	-1.06	0.290	.6817036	1.12116
-------------	----------	----------	-------	-------	----------	---------

 ≥ 1

oilstart	.9956987	.0049717	-0.86	0.388	.9860018	1.00549
----------	----------	----------	-------	-------	----------	---------

 ≥ 1

youthstartap	1.018023	.012456	1.46	0.144	.9939002	1.04273
--------------	----------	---------	------	-------	----------	---------

 ≥ 2

muslimajstart	1.097879	.1206258	0.85	0.395	.8851798	1.36168
---------------	----------	----------	------	-------	----------	---------

> 7

$$\geq -$$

126 .

```
127 . estimates store RepModel
```

128 .


```
129 . estimates store RepModel
```

```
130 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*  
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace  
> tex frag ctitle(Repl. Model)
```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)
Muslim majority	1.098 (0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
131 .
```

```
132 . //capture drop sch* sca*
```

```
133 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe  
> ld(sch*) nohr
```

```
134 . //stphtest, rank detail
```

```
135 .
```

```
136 . *Model 2.A- Binary for Change*
```

```

137 .
138 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) =  48.96
Log pseudolikelihood = -1119.052                Prob > chi2  =  0.0000

```

(Std. err. adjusted for 229 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -							
	haddelta1	.6251834	.0610924	-4.81	0.000	.5162128	.757157
> 3							
	islamist	.647403	.0980418	-2.87	0.004	.4811383	.87112
> 3							
	territory	1.465078	.1681967	3.33	0.001	1.169876	1.83477
> 2							
	strongstart	.9014952	.1150682	-0.81	0.417	.7019638	1.15774
> 3							
	oilstart	.9983029	.0050215	-0.34	0.736	.9885093	1.00819
> 3							
	youthstartap	1.022416	.0126104	1.80	0.072	.9979964	1.04743
> 3							
	muslimajstart	1.085135	.1155439	0.77	0.443	.8807425	1.33696
> 1							
> -							

```

139 .
140 . estimates store SmallChange

141 .
142 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(Binary Change)

```

Repl. Model		
Islamist claim	0.592 (0.088)**	0.647 (0.098)**
Territory	1.291 (0.159)*	1.465 (0.168)**
Strong rebels	0.874 (0.111)	0.901 (0.115)
Oil	0.996 (0.005)	0.998 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.022 (0.013)+
Muslim majority	1.098 (0.121)	1.085 (0.116)
Had Change 1		0.625 (0.061)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

143 .
144 . *Model 2.B- haddelta15*
145 .

```

```
146 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

```
Stratified Cox regression with Breslow method for ties
Strata variable: order
```

```
No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078
```

```
Log pseudolikelihood = -1122.1989                      Wald chi2(7) =  28.51
                                                    Prob > chi2  = 0.0002
```

```
(Std. err. adjusted for 229 clusters in dyadid)
```

```
> )
```

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
> 5	haddelta15	.6975078	.0800603	-3.14	0.002	.5569904	.87347
> 1	islamist	.6583052	.0960372	-2.87	0.004	.4945945	.876204
> 7	territory	1.365254	.1694808	2.51	0.012	1.070401	1.74132
> 5	strongstart	.9173295	.1133908	-0.70	0.485	.7199605	1.16880
> 9	oilstart	.9976196	.0049251	-0.48	0.629	.9880132	1.00731
> 1	youthstartap	1.021938	.0123043	1.80	0.071	.9981045	1.04634
> 9	muslimajstart	1.02932	.1142993	0.26	0.795	.8279991	1.2795

```
> -
```

```

147 .
148 . estimates store MedChange

149 .
150 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(Med Delta)

```

Repl. Model			
Islamist claim	0.592 (0.088)**	0.647 (0.098)**	0.658 (0.096)**
Territory	1.291 (0.159)*	1.465 (0.168)**	1.365 (0.169)*
Strong rebels	0.874 (0.111)	0.901 (0.115)	0.917 (0.113)
Oil	0.996 (0.005)	0.998 (0.005)	0.998 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.022 (0.013)+	1.022 (0.012)+
Muslim majority	1.098 (0.121)	1.085 (0.116)	1.029 (0.114)
Had Change 1		0.625 (0.061)**	
Had Change 1.5			0.698 (0.080)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

151 .

```

```

152 . *Model 2.C- haddelta2*
153 .
154 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
           Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 21.44
Log pseudolikelihood = -1124.7247                  Prob > chi2 = 0.0032

```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.8487513	.1160498	-1.20	0.230	.6492257	1.10959
> 7							
	islamist	.6077416	.0916883	-3.30	0.001	.4521688	.816840
> 6							
	territory	1.312554	.1663585	2.15	0.032	1.023841	1.68268
> 2							
	strongstart	.8803316	.112376	-1.00	0.318	.6854705	1.13058
> 7							
	oilstart	.9966258	.0052327	-0.64	0.520	.9864226	1.00693
> 5							
	youthstartap	1.02118	.0129959	1.65	0.100	.9960238	1.04697
> 2							
	muslimajstart	1.08643	.1211245	0.74	0.457	.873177	1.35176
> 4							

> -

```

155 .
156 . estimates store HighChange

157 .
158 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.647 (0.098)**	0.658 (0.096)**	0.608 (0.092)**
Territory	1.291 (0.159)*	1.465 (0.168)**	1.365 (0.169)*	1.313 (0.166)*
Strong rebels	0.874 (0.111)	0.901 (0.115)	0.917 (0.113)	0.880 (0.112)
Oil	0.996 (0.005)	0.998 (0.005)	0.998 (0.005)	0.997 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.022 (0.013)+	1.022 (0.012)+	1.021 (0.013)+
Muslim majority	1.098 (0.121)	1.085 (0.116)	1.029 (0.114)	1.086 (0.121)
Had Change 1		0.625 (0.061)**		
Had Change 1.5			0.698 (0.080)**	
Had Change 2				0.849 (0.116)
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

159 .
160 . * Model 3.C: With Two Year Lag:
161 . * Change in framing in previous two years. Implies that framing changes are
    > not isn't happening right before big changes in conflict dynamics.
162 .
163 . stcox delta1_L2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          167                      Number of obs =      931
No. of failures =          253
Time at risk    = 1,206.3284

                                           Wald chi2(7) =  18.02
Log pseudolikelihood = -790.40756          Prob > chi2  =  0.0119

```

(Std. err. adjusted for 167 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	delta1_L2	1.181385	.173833	1.13	0.257	.8854062	1.57630
> 4	islamist	.6538166	.1058844	-2.62	0.009	.4759983	.898062
> 2	territory	1.346271	.2044575	1.96	0.050	.9996801	1.81302
> 6	strongstart	.8533995	.1271604	-1.06	0.287	.6372642	1.1428
> 4	oilstart	.9969342	.0059392	-0.52	0.606	.9853613	1.00864
> 3	youthstartap	1.02513	.0155708	1.63	0.102	.9950612	1.05610
> 7	muslimajstart	1.061634	.1431935	0.44	0.657	.8150125	1.38288
> 2							

> —

164 .

165 . estimates store YearofChangeL2

166 .

167 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(YearofChangeL2) title(Model Comparisons)

Model Comparisons

Repl. Model					
Islamist claim	0.592	0.647	0.658	0.608	0.654
	(0.088)**	(0.098)**	(0.096)**	(0.092)**	(0.106)**
Territory	1.291	1.465	1.365	1.313	1.346
	(0.159)*	(0.168)**	(0.169)*	(0.166)*	(0.204)+
Strong rebels	0.874	0.901	0.917	0.880	0.853
	(0.111)	(0.115)	(0.113)	(0.112)	(0.127)
Oil	0.996	0.998	0.998	0.997	0.997
	(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
Youth bulge/adult pop.	1.018	1.022	1.022	1.021	1.025
	(0.012)	(0.013)+	(0.012)+	(0.013)+	(0.016)
Muslim majority	1.098	1.085	1.029	1.086	1.062
	(0.121)	(0.116)	(0.114)	(0.121)	(0.143)
Had Change 1		0.625			
		(0.061)**			

Had Change 1.5					0.698
>					
					(0.080)**
>					
Had Change 2					0.849
>					
					(0.116)
>					
Change in Prev 2 years					1.181
>					
					(0.174)
>					
N	1,020	1,020	1,020	1,020	931
>					

> —

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

168 .
169 . *Model 3.A: "Counter" that resets after a change:
170 .
171 . stcox counter $X1 if haddelta1==1 , cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	68	Number of obs =	557
No. of failures =	119		
Time at risk =	698.3193		
Log pseudolikelihood =	-271.92931	Wald chi2(6) =	12.67
		Prob > chi2 =	0.0485

```

                                (Std. err. adjusted for 68 clusters in dyadid
> )

```

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
counter		1.034904	.056847	0.62	0.532	.9292742 1.15254
territory		1.710005	.310639	2.95	0.003	1.197756 2.44132
strongstart		.6138772	.1660248	-1.80	0.071	.3613031 1.04301
oilstart		.981629	.008775	-2.07	0.038	.9645802 .998979
youthstartap		1.028863	.026427	1.11	0.268	.9783489 1.08198
muslimajstart		.9875122	.1609739	-0.08	0.939	.7174448 1.35924

```

> -

```

172 .

173 . estimates store YearsSinceLast

174 .

175 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(YearsSinceLast) title(Model Comparisons)

```

                                Model Comparisons

```

Repl. Model					
Islamist claim	0.592	0.647	0.658	0.608	0.654
	(0.088)**	(0.098)**	(0.096)**	(0.092)**	(0.106)**
Territory	1.291	1.465	1.365	1.313	1.346
1.710	(0.159)*	(0.168)**	(0.169)*	(0.166)*	(0.204)+

> (0.311)**					
Strong rebels	0.874	0.901	0.917	0.880	0.853
> 0.614					
	(0.111)	(0.115)	(0.113)	(0.112)	(0.127)
> (0.166)+					
Oil	0.996	0.998	0.998	0.997	0.997
> 0.982					
	(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
> (0.009)*					
Youth bulge/adult pop.	1.018	1.022	1.022	1.021	1.025
> 1.029					
	(0.012)	(0.013)+	(0.012)+	(0.013)+	(0.016)
> (0.026)					
Muslim majority	1.098	1.085	1.029	1.086	1.062
> 0.988					
	(0.121)	(0.116)	(0.114)	(0.121)	(0.143)
> (0.161)					
Had Change 1		0.625			
>					
		(0.061)**			
>					
Had Change 1.5			0.698		
>					
			(0.080)**		
>					
Had Change 2				0.849	
>					
				(0.116)	
>					
Change in Prev 2 years					1.181
>					
					(0.174)
>					
Years From Change					
> 1.035					
> (0.057)					
N	1,020	1,020	1,020	1,020	931
> 557					

>

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

176 .
177 .
178 . //Model 4: Number of changes
179 .
180 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      165                      Number of obs =      927
No. of failures =      251
Time at risk    = 1,198.3484

Wald chi2(7) = 36.72
Log pseudolikelihood = -776.719                Prob > chi2 = 0.0000

```

(Std. err. adjusted for 165 clusters in **dyadid**)

>)

> -							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
>]							
> -							
	numchanges	.7990292	.047043	-3.81	0.000	.7119475	.896762
> 2	islamist	.7522198	.1223897	-1.75	0.080	.5468275	1.03475
> 9	territory	1.412745	.2095598	2.33	0.020	1.056333	1.88941
> 3	strongstart	.8810315	.1259316	-0.89	0.376	.6657692	1.16589
> 4	oilstart	1.001429	.0057494	0.25	0.804	.9902235	1.01276
> 1	youthstartap	1.030887	.0171181	1.83	0.067	.9978759	1.06498
> 9	muslimajstart	.9833496	.1330457	-0.12	0.901	.7542957	1.28195
> 9							

> —

181 . estimates store NumChanges

182 .

183 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —————

Repl. Model

>

> —————

Islamist claim		0.592	0.647	0.658	0.608	0.654
>	0.752					
		(0.088)**	(0.098)**	(0.096)**	(0.092)**	(0.106)**
>	(0.122)+					
Territory		1.291	1.465	1.365	1.313	1.346
>	1.710 1.413					
		(0.159)*	(0.168)**	(0.169)*	(0.166)*	(0.204)+
>	(0.311)** (0.210)*					
Strong rebels		0.874	0.901	0.917	0.880	0.853
>	0.614 0.881					
		(0.111)	(0.115)	(0.113)	(0.112)	(0.127)
>	(0.166)+ (0.126)					
Oil		0.996	0.998	0.998	0.997	0.997
>	0.982 1.001					
		(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
>	(0.009)* (0.006)					
Youth bulge/adult pop.		1.018	1.022	1.022	1.021	1.025
>	1.029 1.031					
		(0.012)	(0.013)+	(0.012)+	(0.013)+	(0.016)
>	(0.026) (0.017)+					
Muslim majority		1.098	1.085	1.029	1.086	1.062
>	0.988 0.983					
		(0.121)	(0.116)	(0.114)	(0.121)	(0.143)
>	(0.161) (0.133)					
Had Change 1			0.625			
>			(0.061)**			
>						
Had Change 1.5				0.698		
>						

				(0.080)**		
>						
Had Change 2				0.849		
>						
				(0.116)		
>						
Change in Prev 2 years					1.181	
>						
					(0.174)	
>						
Years From Change						
> 1.035						
>						
(0.057)						
Change Frequency						
>				0.799		
>						
				(0.047)**		
N			1,020	1,020	1,020	1,020
>	557	927				931
<hr/>						
>	<hr/>					
	+ p<0.1; * p<0.05; ** p<0.01					
	Robust standard errors in parentheses clustered on dyad.					

```

189 . set scheme lean2

190 .
191 . ** Figure 6 of Document **
192 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white)

193 . graph export "TerminationCoefPlotUp.pdf", as(pdf) name("Graph") replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/T
        > erminationCoefPlotUp.pdf saved as PDF format

194 .
195 .
196 . *Appendix Figure 11*
197 . coefplot(SmallChange, label(Low Change))(YearofChangeL2, label(Two-Year Wind
    > ow))(YearsSinceLast, label(Years Since Change))(NumChanges, label(Change Fre
    > quency)), drop(_cons) xline(0)

198 . graph export "TerminationCoefPlotExtUp.pdf", as(pdf) name("Graph") replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/T
        > erminationCoefPlotExtUp.pdf saved as PDF format

199 .
200 .
201 . *****
202 . *****
203 . * Replication of Recurrance Models
204 . * Manuscript Appendix Figures 14 and 15
205 . *****
206 .
207 .

```



```

208 . clear all

209 . ssc install unique
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

210 . ssc install blind schemes, replace all
    checking blind schemes consistency and verifying not already installed...
    all files already exist and are up to date.

211 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

212 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

213 .
214 .
215 . *load data:
216 .
217 . use "recurrenceplus.dta"

218 .
219 . sort dyadid year

220 .
221 .
222 . *****
223 . * STSET FOR SURVIVAL ANALYSIS RECURRENCE as DV
224 . *****
225 .
226 . stset end_of_segment, id(dyadid) origin(time first_year_of_peace) enter(time
    > start_of_segment) failure(firstrecur==1) exit(time .)

```

Survival-time data settings

```

        ID variable: dyadid
        Failure event: firstrecur==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
        Enter on or after: time start_of_segment
        Exit on or before: time .
        Time for analysis: (time-origin)
                        Origin: time first_year_of_peace

```

6,236	total observations	
0	exclusions	

6,236	observations remaining, representing	
367	subjects	
147	failures in multiple-failure-per-subject data	
6,436.326	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

227 .
228 . *****
229 . * STSET FOR SURVIVAL ANALYSIS NEW-RECURRENCE as DV
230 . *****
231 .
232 . stset end_of_segment, id(dyadid) origin(time first_year_of_peace) enter(time
> start_of_segment) failure(newrecur1==1) exit(time .)

```

Survival-time data settings

```

ID variable: dyadid
Failure event: newrecur1==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
Enter on or after: time start_of_segment
Exit on or before: time .
Time for analysis: (time-origin)
Origin: time first_year_of_peace

```

6,236	total observations	
0	exclusions	

6,236	observations remaining, representing	
367	subjects	
52	failures in multiple-failure-per-subject data	
6,436.326	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

233 .
234 . *****
235 . * CREATE LABELS
236 . *****
237 .
238 . label variable firstrecur "Recurrence"

239 . label variable newrecur1 "Recurrence-new"

240 . label variable islamist "Islamist claim"

241 . label variable delta1 "Change Year"

242 . label variable delta1_L2 "Change in Two Years"

243 . label variable haddelta1 "Had Change |1|"

244 . label variable haddelta15 "Had Change |1.5|"

245 . label variable haddelta2 "Had Change |2|"

246 . label variable ambig25 "Ambiguity |.25|"

247 . label variable ambig50 "Ambiguity |.5|"

248 . label variable territory "Territory"

249 . label variable duration "Duration"

250 . label variable intensitylevel "War"

251 . label variable number_group "Number of groups"

252 . label variable transstart "Transnational constituency"

```

253 . label variable forinvstart "Foreign involvement"
254 . label variable strongstart "Strong rebels"
255 . label variable pa "Peace agreement"
256 . label variable ca "Ceasefire agreement"
257 . label variable lowcease "Low activity"
258 .
259 . label variable govv "Government victory"
260 . label variable rebv "Rebel victory"
261 . label variable pko "Peacekeeping presence"
262 . label variable anostart "Anocracy"
263 . label variable lngdppcstart "GDP per capita"
264 . label variable lnpopstart "Population"
265 . label variable muslimajstart "Muslim majority"
266 . label variable oilstart "Oil"
267 . label variable youthstartap "Youth bulge/adult pop."
268 . label variable muslimid "Muslim identity"
269 .
270 . label variable foreignfighter "Foreign fighters"

```

271 . label variable govmlsupport "Government support"

272 . label variable leftist "Leftist"

273 . label variable nonislamistrel "Non-Islamist religious claims"

274 . label variable muslimid "Muslim identity"

275 .
276 . label variable anocracy "Anocracy over time"

277 . label variable lngdppc "GDP pc over time"

278 . label variable lnpop "Population over time"

279 . label variable secsup_govgov "Government secondary support"

280 . label variable rebext "Rebel support"

281 .
282 .
283 . *****
284 . * CONTROL VARIABLES
285 . *****
286 .
287 . global X1 territory strongstart oilstart youthstartap muslimajstart

288 . global X2 _yrs _yrs_sq _yrs_cu

289 .
290 .
291 . *****
292 . * Appendix Figure 15
293 . *****

```

```

294 .
295 . //Model 1//
296 .
297 . stset end_of_segment, id(dyadid) origin(time first_year_of_peace) enter(time
> start_of_segment) failure(firstrecur==1) exit(time .)

```

Survival-time data settings

```

        ID variable: dyadid
        Failure event: firstrecur==1
Observed time interval: (end_of_segment[_n-1], end_of_segment)
Enter on or after: time start_of_segment
Exit on or before: time .
Time for analysis: (time-origin)
        Origin: time first_year_of_peace

```

6,236	total observations	
0	exclusions	

6,236	observations remaining, representing	
367	subjects	
147	failures in multiple-failure-per-subject data	
6,436.326	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

298 .
299 . *Model 2*
300 .
301 . ** Base model specification:
302 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: firstrecur==1
        Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_peace
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

	(0.022)*
Muslim majority	0.661
	(0.183)
N	5,554

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
304 .
305 . ** Adding delta1 measure:
306 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_peace
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	166	Number of obs =	2,427
No. of failures =	120		
Time at risk =	2,604.3584		
		Wald chi2(7) =	42.77
Log pseudolikelihood =	-422.11575	Prob > chi2 =	0.0000

(Std. err. adjusted for 166 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
> -	_t					
>]						
> -	haddelta1	1.262275	.2799253	1.05	0.294	.8173146 1.94947
> 9	islamist	1.659183	.3640426	2.31	0.021	1.079273 2.55068
> 6	territory	2.501348	.7635606	3.00	0.003	1.375107 4.55000
> 2	strongstart	.6540891	.3275181	-0.85	0.397	.2451433 1.74523
> 5						


```

      oilstart |    1.011076    .0114849    0.97    0.332    .9888144    1.03383
> 8
      youthstartap |    1.06758    .0235255    2.97    0.003    1.022452    1.11469
> 9
      muslimajstart |    .7059669    .2051337    -1.20    0.231    .3994382    1.24772
> 6

```

```

> -

```

```

307 . outreg using recurrence-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,* ,
> **) note (Robust standard errors in parentheses clustered on dyad.) merge te
> x frag ctitle(Small Change)

```

Base Model		
Islamist claim	2.052 (0.472)**	1.659 (0.364)*
Territory	2.481 (0.648)**	2.501 (0.764)**
Strong rebels	0.774 (0.395)	0.654 (0.328)
Oil	1.021 (0.011)+	1.011 (0.011)
Youth bulge/adult pop.	1.055 (0.022)*	1.068 (0.024)**
Muslim majority	0.661 (0.183)	0.706 (0.205)
Had Change 1		1.262 (0.280)
N	5,554	2,427

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

308 .
309 . capture drop sch* sca*

310 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*)
> schoenfeld(sch*) nohr

```

```

      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_peace
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

```

Iteration 0: Log pseudolikelihood = -438.85301
Iteration 1: Log pseudolikelihood = -422.30787
Iteration 2: Log pseudolikelihood = -422.1159
Iteration 3: Log pseudolikelihood = -422.11575
Refining estimates:
Iteration 0: Log pseudolikelihood = -422.11575

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =      166                      Number of obs =  2,427
No. of failures =      120
Time at risk    = 2,604.3584

Log pseudolikelihood = -422.11575                Wald chi2(7) =  42.77
                                                Prob > chi2  =  0.0000

```

(Std. err. adjusted for 166 clusters in dyadid)

```
> )
```

		Coefficient	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	haddelta1	.2329154	.2217625	1.05	0.294	-.2017312	.66756
> 2	islamist	.5063253	.2194108	2.31	0.021	.0762881	.936362
> 5	territory	.9168296	.3052597	3.00	0.003	.3185316	1.51512
> 8	strongstart	-.4245116	.5007239	-0.85	0.397	-1.405912	.556889
> 2							

```

      oilstart |      .0110147      .011359      0.97      0.332      -.0112486      .03327
> 8
      youthstartap |      .065394      .0220363      2.97      0.003      .0222037      .108584
> 3
      muslimajstart |     -.3481869      .2905713      -1.20      0.231      -.9176962      .221322
> 3

```

```

> -

```

311 . stphtest, rank detail

Test of proportional-hazards assumption

Time function: Rank of analysis time

	rho	chi2	df	Prob>chi2
haddelta1	0.06994	1.26	1	0.2623
islamist	0.17702	6.20	1	0.0128
territory	-0.11182	3.47	1	0.0626
strongstart	0.17649	9.03	1	0.0027
oilstart	0.02288	0.07	1	0.7890
youthstartap	-0.16721	4.37	1	0.0366
muslimajst~t	-0.00050	0.00	1	0.9942
Global test		12.94	7	0.0736

Note: Robust variance-covariance matrix used.

312 .

313 . ** Adding delta1.5 measure:

314 . stcox haddelta15 islamist \$X1, cluster(dyadid) strata(order) nolog

```

      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_peace
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties

Strata variable: **order**

Number of obs = 2,427

No. of failures = **120**

Time at risk = 2,604.3584

Wald chi2(7) = 45.10

```
Prob > chi2    = 0.0000
```

Log pseudolikelihood = -421.69455

(Std. err. adjusted for **166** clusters in **dyadid**)

 $\geq)$

> -

_t	Haz. ratio	std. err.	z	P> z	[95% conf. interval
----	------------	-----------	---	------	---------------------

 ≥ 1

> -

haddelta15	1.351236	.3120814	1.30	0.192	.8592862	2.12483
------------	----------	----------	------	-------	----------	---------

> 3

islamist	1.648099	.364532	2.26	0.024	1.068345	2.54246
----------	----------	---------	------	-------	----------	---------

> 4

territory	2.396401	.7793992	2.69	0.007	1.266826	4.5331
-----------	----------	----------	------	-------	----------	--------

> 7

strongstart	.6320441	.3080557	-0.94	0.347	.2431505	1.64293
-------------	----------	----------	-------	-------	----------	---------

> 2

oilstart	1.011664	.0113687	1.03	0.302	.9896251	1.03419
----------	----------	----------	------	-------	----------	---------

> 3

youthstartup	1.06567	.0246439	2.75	0.006	1.018447	1.11508
--------------	---------	----------	------	-------	----------	---------

 ≥ 3

muslimajstart	.7081571	.2071079	-1.18	0.238	.3991967	1.25623
---------------	----------	----------	-------	-------	----------	---------

> 9

> -

```
315 . outreg using recurrence-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*,  
    > **) note (Robust standard errors in parentheses clustered on dyad.) merge te  
    > x frag ctitle(Medium Change)
```

Base Model			
Islamist claim	2.052 (0.472)**	1.659 (0.364)*	1.648 (0.365)*
Territory	2.481 (0.648)**	2.501 (0.764)**	2.396 (0.779)**
Strong rebels	0.774 (0.395)	0.654 (0.328)	0.632 (0.308)
Oil	1.021 (0.011)+	1.011 (0.011)	1.012 (0.011)
Youth bulge/adult pop.	1.055 (0.022)*	1.068 (0.024)**	1.066 (0.025)**
Muslim majority	0.661 (0.183)	0.706 (0.205)	0.708 (0.207)
Had Change 1		1.262 (0.280)	
Had Change 1.5			1.351 (0.312)
N	5,554	2,427	2,427

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

316 .
317 . ** Adding delta2 measure:
318 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_peace
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	166	Number of obs =	2,427
No. of failures =	120		
Time at risk =	2,604.3584		
Log pseudolikelihood =	-422.35015	Wald chi2(7) =	37.63
		Prob > chi2 =	0.0000

```

                                (Std. err. adjusted for 166 clusters in dyadid
> )
> -
      _t | Haz. ratio   Robust      z   P>|z|   [95% conf. interval
> ]
> -
      haddelta2 | 1.224783 .2829346 0.88 0.380 .7787983 1.92616
> 5
      islamist | 1.711339 .3821257 2.41 0.016 1.104767 2.65094
> 9
      territory | 2.515991 .7741186 3.00 0.003 1.376613 4.59839
> 5
      strongstart | .6591709 .3332502 -0.82 0.410 .2447174 1.77554
> 3
      oilstart | 1.011238 .0111827 1.01 0.312 .9895559 1.03339
> 5
      youthstartap | 1.066677 .023481 2.93 0.003 1.021634 1.11370
> 6
      muslimajstart | .688432 .2061222 -1.25 0.212 .3828284 1.23799
> 2
> -

```

```

319 . outreg using recurrence-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> **) note (Robust standard errors in parentheses clustered on dyad.) merge te
> x frag ctitle(High Change)

```

Base Model				
Islamist claim	2.052 (0.472)**	1.659 (0.364)*	1.648 (0.365)*	1.711 (0.382)*
Territory	2.481 (0.648)**	2.501 (0.764)**	2.396 (0.779)**	2.516 (0.774)**
Strong rebels	0.774 (0.395)	0.654 (0.328)	0.632 (0.308)	0.659 (0.333)
Oil	1.021 (0.011)+	1.011 (0.011)	1.012 (0.011)	1.011 (0.011)
Youth bulge/adult pop.	1.055 (0.022)*	1.068 (0.024)**	1.066 (0.025)**	1.067 (0.023)**
Muslim majority	0.661 (0.183)	0.706 (0.205)	0.708 (0.207)	0.688 (0.206)
Had Change 1		1.262		

			(0.280)	
Had Change 1.5			1.351	
			(0.312)	
Had Change 2			1.225	
			(0.283)	
N	5,554	2,427	2,427	2,427

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

320 .
    end of do-file

321 .
322 . * Appendix Figure 8:
323 . * Comparision of threshold for document sparsity
324 .
325 .
326 . * Threshold 1 word for .75, .90, 1 percent of years
327 .
328 . *saves: thresh_1_75.pdf
329 . do 06dRobustnessTerminationComparision_1_75.do

330 . *****
    > *****
331 .
332 . * Replication file 3 for:
333 . * Foster, 'Subject to Change: Quantifying Transformation in Armed Conflict A
    > ctors'
334 . * This file compares inclusion criteria for minimum numbers of articles per
    > group/year
335 . * Includes a replication of
336 . * 'The Intractability of Islamist Insurgencies: Islamist Rebels and the Recu
    > rrence of Civil War"

```

```

337 . * Desiree Nilsson & Isak Svensson, International Studies Quarterly
338 . *****
    > *****/
339 .
340 . clear all

341 .
342 . *To run the do-file you need to install the following:
343 . *1. To generate summary statistics:
344 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

345 .
346 . *2. To generate graphs:
347 . ssc install blindschemes, replace all
    checking blindschemes consistency and verifying not already installed...
    all files already exist and are up to date.

348 . set scheme plottig, permanently
    (set scheme preference recorded)

349 .
350 . *3. To generate tables:
351 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

352 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

353 .
354 . * Latex code

```



```

355 . ssc install estout, replace
    checking estout consistency and verifying not already installed...
    all files already exist and are up to date.

356 .
357 . * Coefplot
358 . ssc install coefplot
    checking coefplot consistency and verifying not already installed...
    all files already exist and are up to date.

359 .
360 . *****
    > *****
361 .
362 . * set working directory:
363 . * MJF: Set to Replication directory; I'm using my own throughout
364 .
365 . *cd "/Users/Promachos/Dropbox (Personal)/TransformationEmpiricalModels/Repli
    > cation/STC_Replication"
366 .
367 . * load data:
368 . * Threshold 1 article/year for all years (basically same):
369 . use "./data/terminationplus_1_75.dta"

370 .
371 . sort dyadid year

372 .
373 . *****
374 . * STSET FOR SURVIVAL ANALYSIS
375 . *****
376 .
377 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
    > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

        ID variable: dyadid
        Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
        Enter on or after: time start_of_segment
        Exit on or before: time .
        Time for analysis: (time-origin)
                   Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

378 .
379 .
380 . *****
381 . * DESCRIPTIVE STATISTICS
382 . *****
383 . *****
384 . * CREATE LABELS
385 . *****
386 .
387 . label variable term "Termination"

388 . label variable islamist "Islamist claim"

389 . label variable counter "Years From Change"

390 . label variable delta1 "Change Year, Delta 1"

391 . label variable delta1 "Change Year, Delta 1"

392 . label variable delta1_L2 "Change in Prev 2 years"

393 . label variable numchanges "Change Frequency"

```

394 . label variable haddelta1 "Had Change |1|"
395 . label variable haddelta15 "Had Change |1.5|"
396 . label variable haddelta2 "Had Change |2|"
397 . label variable territory "Territory"
398 . label variable duration "Duration"
399 . label variable intensitylevel "War"
400 . label variable number_group "Number of groups"
401 . label variable strongstart "Strong rebels"
402 . label variable anostart "Anocracy"
403 . label variable lngdppcstart "GDP per capita"
404 . label variable lnpopstart "Population"
405 . label variable muslimajstart "Muslim majority"
406 . label variable oilstart "Oil"
407 . label variable youthstartap "Youth bulge/adult pop."
408 . label variable anocracy "Anocracy over time"
409 . label variable lngdppc "GDP per capita over time"
410 . label variable lnpop "Population over time"

```

411 . label variable foreignfighter "Foreign fighters"
412 . label variable govmilsupport "Government support"
413 . label variable leftist "Leftist"
414 . label variable nonislamistrel "Non-Islamist religious claims"
415 . label variable muslimid "Muslim identity"
416 . label variable secsup_govgov "Government secondary support"
417 . label variable rebextpartdummy "Rebel support"
418 .
419 .
420 .
421 . *****
422 . * Summary of new variables
423 . *****
424 .
425 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	1,118	.1359571	.3428964	0	1
delta1_L2	1,118	.2334526	.4232171	0	1
numchanges	1,114	1.280072	1.477175	0	6
counter	1,118	.8658318	2.030183	0	14
haddelta1	1,229	.541904	.4984438	0	1
haddelta15	1,229	.4011391	.4903286	0	1
haddelta2	1,229	.2262002	.4185405	0	1

```

426 .
427 .
428 . *****
429 . * CONTROL VARIABLES
430 . *****
431 .
432 . global X1 territory strongstart oilstart youthstartap muslimajstart

433 . global X2 _yrs _yrs_sq _yrs_cu

434 .
435 . *****
436 . * TABLE 1
437 . *****
438 .
439 . *Model 1- Replication*
440 .
441 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1127	Wald chi2(6) =	20.45
		Prob > chi2 =	0.0023

```

> )
                                     (Std. err. adjusted for 229 clusters in dyadid
> -

```

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
islamist	.5919864	.0879443	-3.53	0.000	.4424447 .792071
territory	1.291421	.1592884	2.07	0.038	1.014093 1.64459
strongstart	.8742423	.1109606	-1.06	0.290	.6817036 1.12116
oilstart	.9956987	.0049717	-0.86	0.388	.9860018 1.00549
youthstartap	1.018023	.012456	1.46	0.144	.9939002 1.04273
muslimajstart	1.097879	.1206258	0.85	0.395	.8851798 1.36168

```

> -

```

```

442 .
443 . estimates store RepModel

444 .
445 . estimates store RepModel

446 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018

	(0.012)
Muslim majority	1.098
	(0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

447 .
448 . //capture drop sch* sca*
449 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
450 . //stphtest, rank detail
451 .
452 . *Model 2.A- Binary for Change*
453 .
454 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1120.061	Wald chi2(7) =	36.83
		Prob > chi2 =	0.0000

$\geq)$

	_t	Haz. ratio	std. err.	z	P> z	[95% conf. interval	
>]							
> -							
	haddelta1	.6714957	.0649844	-4.12	0.000	.5554791	.811743
> 4							
	islamist	.6505065	.1009116	-2.77	0.006	.4799618	.881650
> 9							
	territory	1.355268	.1676717	2.46	0.014	1.063447	1.72716
> 7							
	strongstart	.8870792	.1166596	-0.91	0.362	.6855215	1.14789
> 9							
	oilstart	.9954508	.0050651	-0.90	0.370	.9855727	1.00542
> 8							
	youthstartap	1.016618	.0124557	1.35	0.179	.992496	1.04132
> 6							
	muslimajstart	1.069161	.1237384	0.58	0.563	.8521776	1.34139
> 3							

> -

Repl. Model		
Islamist claim	0.592 (0.088)**	0.651 (0.101)**
Territory	1.291 (0.159)*	1.355 (0.168)*
Strong rebels	0.874 (0.111)	0.887 (0.117)
Oil	0.996 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018	1.017

	(0.012)	(0.012)
Muslim majority	1.098	1.069
	(0.121)	(0.124)
Had Change 1		0.671
		(0.065)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

459 .
460 . *Model 2.B- haddelta15*
461 .
462 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 27.85
Log pseudolikelihood = -1121.8946              Prob > chi2 = 0.0002

```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	haddelta15	.7006017	.0794189	-3.14	0.002	.5610228	.874906
> 8	islamist	.6453464	.0978818	-2.89	0.004	.4793894	.868755
> 1	territory	1.377048	.174443	2.53	0.012	1.074286	1.76513

```

> 7
  strongstart |   .8987993   .1174415   -0.82   0.414   .6957297   1.16114
> 1
  oilstart |   .99725   .0051754   -0.53   0.596   .9871579   1.00744
> 5
  youthstartap |  1.018852   .0118092   1.61   0.107   .9959669   1.04226
> 2
  muslimajstart |  1.074406   .1247091   0.62   0.536   .8557897   1.34886
> 8

```

```

> -

```

463 .

464 . estimates store MedChange

465 .

466 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

Repl. Model			
Islamist claim	0.592 (0.088)**	0.651 (0.101)**	0.645 (0.098)**
Territory	1.291 (0.159)*	1.355 (0.168)*	1.377 (0.174)*
Strong rebels	0.874 (0.111)	0.887 (0.117)	0.899 (0.117)
Oil	0.996 (0.005)	0.995 (0.005)	0.997 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)	1.019 (0.012)
Muslim majority	1.098 (0.121)	1.069 (0.124)	1.074 (0.125)
Had Change 1		0.671 (0.065)**	
Had Change 1.5			0.701 (0.079)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

467 .
468 . *Model 2.C- haddelta2*
469 .
470 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 22.75
Prob > chi2   = 0.0019
Log pseudolikelihood = -1123.1311

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
_t							
haddelta2		.7043636	.1045725	-2.36	0.018	.5265314	.942257
islamist		.6360384	.0919004	-3.13	0.002	.4791751	.844252
territory		1.375339	.1727598	2.54	0.011	1.075197	1.75926
strongstart		.9135001	.1176674	-0.70	0.482	.7096854	1.17584
oilstart		.995834	.0051136	-0.81	0.416	.9858617	1.00590
youthstartap		1.022141	.0124238	1.80	0.072	.9980786	1.04678
muslimajstart		1.078034	.1229273	0.66	0.510	.8621259	1.34801

```
> -
```

```

471 .
472 . estimates store HighChange

473 .
474 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.651 (0.101)**	0.645 (0.098)**	0.636 (0.092)**
Territory	1.291 (0.159)*	1.355 (0.168)*	1.377 (0.174)*	1.375 (0.173)*
Strong rebels	0.874 (0.111)	0.887 (0.117)	0.899 (0.117)	0.914 (0.118)
Oil	0.996 (0.005)	0.995 (0.005)	0.997 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)	1.019 (0.012)	1.022 (0.012)+
Muslim majority	1.098 (0.121)	1.069 (0.124)	1.074 (0.125)	1.078 (0.123)
Had Change 1		0.671 (0.065)**		
Had Change 1.5			0.701 (0.079)**	
Had Change 2				0.704 (0.105)*
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

475 .
476 . //Model 4: Number of changes
477 .
478 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      165                      Number of obs =      927
No. of failures =      251
Time at risk    = 1,198.3484

Wald chi2(7) = 37.99
Log pseudolikelihood = -776.40032              Prob > chi2    = 0.0000

```

(Std. err. adjusted for 165 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.841262	.0312744	-4.65	0.000	.7821451	.904847
> 1							
	islamist	.6811214	.1128355	-2.32	0.020	.4922812	.942401
> 1							
	territory	1.442784	.2290203	2.31	0.021	1.057026	1.96932
> 2							
	strongstart	.835879	.129482	-1.16	0.247	.6170038	1.13239
> 8							
	oilstart	.9967492	.0059241	-0.55	0.584	.9852054	1.00842
> 8							
	youthstartap	1.02896	.0156985	1.87	0.061	.9986473	1.06019
> 3							
	muslimajstart	1.048368	.1507653	0.33	0.743	.7908657	1.38971
> 1							
> -							

479 . estimates store NumChanges

480 .

481 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

<hr/>					
> —					
Repl. Model					
>					
<hr/>					
> —					
Islamist claim	0.592	0.651	0.645	0.636	0.681
>	(0.088)**	(0.101)**	(0.098)**	(0.092)**	(0.113)*
>					
Territory	1.291	1.355	1.377	1.375	1.443
>	(0.159)*	(0.168)*	(0.174)*	(0.173)*	(0.229)*
>					
Strong rebels	0.874	0.887	0.899	0.914	0.836
>	(0.111)	(0.117)	(0.117)	(0.118)	(0.129)
>					
Oil	0.996	0.995	0.997	0.996	0.997
>	(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
>					
Youth bulge/adult pop.	1.018	1.017	1.019	1.022	1.029
>	(0.012)	(0.012)	(0.012)	(0.012)+	(0.016)+
>					
Muslim majority	1.098	1.069	1.074	1.078	1.048
>	(0.121)	(0.124)	(0.125)	(0.123)	(0.151)
>					
Had Change 1		0.671			
>		(0.065)**			
>					
Had Change 1.5			0.701		
>			(0.079)**		

```

>
Had Change |2|                                0.704
>
                                           (0.105)*
>
Change Frequency                                0.841
>
                                           (0.031)**
>
N                1,020      1,020      1,020      1,020      927
>

```

```

> —
                + p<0.1; * p<0.05; ** p<0.01
                Robust standard errors in parentheses clustered on dyad.

```

```

482 .
483 . // Model with other covariates
484 .
485 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

                Failure _d: term==1
                Analysis time _t: (end_of_segment-origin)
                        Origin: time first_year_of_con
                Enter on or after: time start_of_segment
                Exit on or before: time .
                ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =          202                Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Log pseudolikelihood = -877.47279                Wald chi2(12) =   71.20
                                                Prob > chi2    =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

> _____							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> _____							
	haddelta1	.5954876	.065488	−4.71	0.000	.480024	.7387
> 245	anocracy	1.077121	.1108605	0.72	0.470	.8803523	1.317
> 871	secsup_govgov	.5558454	.1556919	−2.10	0.036	.3210207	.962
> 443	rebextpartdummy	.7316459	.1630632	−1.40	0.161	.4727071	1.132
> 426	govmilsupport	.7474559	.1431718	−1.52	0.129	.5135016	1.088
> 001	islamist	.6985745	.1292223	−1.94	0.052	.4861357	1.003
> 848	leftist	.5317537	.0942192	−3.56	0.000	.375742	.7525
> 429	territory	1.3309	.1740887	2.19	0.029	1.02992	1.719
> 836	strongstart	1.020834	.1296069	0.16	0.871	.7959489	1.309
> 258	oilstart	.9949625	.0056162	−0.89	0.371	.9840155	1.006
> 031	youthstartap	1.021477	.0145751	1.49	0.136	.9933062	1.050
> 447	muslimajstart	.9964069	.1186722	−0.03	0.976	.7889664	1.258
> 389							
> _____							


```

486 .
487 . estimates store Model2A

488 .
489 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

```

Model Comparisons					
<hr/>					
> <hr/>					
Repl. Model					
<hr/>					
> <hr/>					
Islamist claim	0.592	0.651	0.645	0.636	0
> .681 0.699	(0.088)**	(0.101)**	(0.098)**	(0.092)**	(0.
> 113)* (0.129)+					
Territory	1.291	1.355	1.377	1.375	1
> .443 1.331	(0.159)*	(0.168)*	(0.174)*	(0.173)*	(0.
> 229)* (0.174)*					
Strong rebels	0.874	0.887	0.899	0.914	0
> .836 1.021	(0.111)	(0.117)	(0.117)	(0.118)	(0
> .129) (0.130)					
Oil	0.996	0.995	0.997	0.996	0
> .997 0.995	(0.005)	(0.005)	(0.005)	(0.005)	(0
> .006) (0.006)					
Youth bulge/adult pop.	1.018	1.017	1.019	1.022	1
> .029 1.021	(0.012)	(0.012)	(0.012)	(0.012)+	(0.
> 016)+ (0.015)					
Muslim majority	1.098	1.069	1.074	1.078	1
> .048 0.996	(0.121)	(0.124)	(0.125)	(0.123)	(0
> .151) (0.119)					
Had Change 1		0.671			
> 0.595		(0.065)**			
> (0.065)**					
Had Change 1.5			0.701		
>			(0.079)**		

>					
Had Change 2					0.704
>					
					(0.105)*
>					
Change Frequency					0
> .841					
					(0.
> 031)**					
Anocracy over time					
> 1.077					
> (0.111)					
Government secondary support					
> 0.556					
> (0.156)*					
Rebel support					
> 0.732					
> (0.163)					
Government support					
> 0.747					
> (0.143)					
Leftist					
> 0.532					
> (0.094)**					
N		1,020	1,020	1,020	1,020
> 927	865				

> + p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

490 .
491 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      149                      Number of obs =      784
No. of failures =      203
Time at risk    = 984.5986

Wald chi2(12) =  63.71
Log pseudolikelihood = -599.48501              Prob > chi2    =  0.0000

```

(Std. err. adjusted for 149 clusters in dyad

```
> id)
```

> _____							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all							
> _____							
	numchanges	.7812097	.0432797	-4.46	0.000	.7008262	.8708
> 131							
	anocracy	1.149618	.1535749	1.04	0.297	.8847968	1.493
> 701							
	secsup_govgov	.5748879	.1686221	-1.89	0.059	.3235301	1.021
> 531							
	rebextpartdummy	.6492079	.1560799	-1.80	0.072	.4052672	1.039
> 983							
	govmlsupport	.7422123	.1599795	-1.38	0.167	.4864707	1.132
> 399							
	islamist	.8058042	.1570395	-1.11	0.268	.5499748	1.180
> 637							
	leftist	.5608096	.1057599	-3.07	0.002	.3875183	.8115
> 937							
	territory	1.482717	.2680796	2.18	0.029	1.0403	2.113
> 284							
	strongstart	.9805497	.1529213	-0.13	0.900	.7223052	1.331

```

> 124
      oilstart |      .9955246      .0067449      -0.66      0.508      .9823923      1.008
> 832
      youthstartap |      1.035673      .0185597      1.96      0.050      .9999277      1.072
> 695
      muslimajstart |      .9934501      .1491918      -0.04      0.965      .7401445      1.333
> 446
_____
> —

```

```

492 .
493 . estimates store Model2B

494 .
495 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

```

Model Comparisons						

Repl. Model						

Islamist claim			0.592	0.651	0.645	0.636
> .681	0.699	0.806				0
			(0.088)**	(0.101)**	(0.098)**	(0.092)**
> 113)*	(0.129)+	(0.157)				
Territory			1.291	1.355	1.377	1.375
> .443	1.331	1.483				1
			(0.159)*	(0.168)*	(0.174)*	(0.173)*
> 229)*	(0.174)*	(0.268)*				
Strong rebels			0.874	0.887	0.899	0.914
> .836	1.021	0.981				0
			(0.111)	(0.117)	(0.117)	(0.118)
> .129)	(0.130)	(0.153)				(0
Oil			0.996	0.995	0.997	0.996
> .997	0.995	0.996				0
			(0.005)	(0.005)	(0.005)	(0.005)
> .006)	(0.006)	(0.007)				
Youth bulge/adult pop.			1.018	1.017	1.019	1.022
> .029	1.021	1.036				1
			(0.012)	(0.012)	(0.012)	(0.012)+
> 016)+	(0.015)	(0.019)+				(0.
Muslim majority			1.098	1.069	1.074	1.078
						1

> .048	0.996	0.993					
			(0.121)	(0.124)	(0.125)	(0.123)	(0
> .151)	(0.119)	(0.149)					
Had Change 1				0.671			
>	0.595						
				(0.065)**			
>	(0.065)**						
Had Change 1.5					0.701		
>							
					(0.079)**		
>							
Had Change 2						0.704	
>							
						(0.105)*	
>							
Change Frequency							0
> .841		0.781					
							(0.
> 031)**		(0.043)**					
Anocracy over time							
>	1.077	1.150					
>	(0.111)	(0.154)					
Government secondary support							
>	0.556	0.575					
>	(0.156)*	(0.169)+					
Rebel support							
>	0.732	0.649					
>	(0.163)	(0.156)+					
Government support							
>	0.747	0.742					
>	(0.143)	(0.160)					
Leftist							
>	0.532	0.561					
>	(0.094)**	(0.106)**					
N			1,020	1,020	1,020	1,020	
> 927	865	784					

> _____

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

496 .
497 .
498 . *****
499 . ** Results Plots
500 . *****
501 .
502 .
503 . * d/l lean2 plot for bw graph *
504 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

505 . set scheme lean2

506 .
507 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 1, T=75")

508 . graph export thresh_1_75.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
    (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
    > hresh_1_75.pdf saved as PDF format

509 .
    end of do-file

510 . * saves: thresh_1_90.pdf
511 . do 06dRobustnessTerminationComparision_1_90.do

512 . clear all

513 .

```

```

514 . *To run the do-file you need to install the following:
515 . *1. To generate summary statistics:
516 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

517 .
518 . *2. To generate graphs:
519 . ssc install blindschemes, replace all
    checking blindschemes consistency and verifying not already installed...
    all files already exist and are up to date.

520 . set scheme plottig, permanently
    (set scheme preference recorded)

521 .
522 . *3. To generate tables:
523 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

524 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

525 .
526 . * Latex code
527 . ssc install estout, replace
    checking estout consistency and verifying not already installed...
    all files already exist and are up to date.

528 .
529 . * Coefplot
530 . ssc install coefplot
    checking coefplot consistency and verifying not already installed...
    all files already exist and are up to date.

```

```

531 .
532 . *****
> *****
533 .
534 . * load data:
535 . * Threshold 1 article/year for all years (basically same):
536 . use "./data/terminationplus_1_90.dta"

537 .
538 . sort dyadid year

539 .
540 . *****
541 . * STSET FOR SURVIVAL ANALYSIS
542 . *****
543 .
544 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
> tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
                   Origin: time first_year_of_con

```

```

1,229 total observations
0 exclusions

```

```

1,229 observations remaining, representing
299 subjects
398 failures in multiple-failure-per-subject data
1,589.007 total analysis time at risk and under observation
                        At risk from t = 0
                        Earliest observed entry t = 0
                        Last observed exit t = 38.98999

```



```

545 .
546 .
547 . *****
548 . * DESCRIPTIVE STATISTICS
549 . *****
550 . *****
551 . * CREATE LABELS
552 . *****
553 .
554 . label variable term "Termination"

555 . label variable islamist "Islamist claim"

556 . label variable counter "Years From Change"

557 . label variable delta1 "Change Year, Delta 1"

558 . label variable delta1 "Change Year, Delta 1"

559 . label variable delta1_L2 "Change in Prev 2 years"

560 . label variable numchanges "Change Frequency"

561 . label variable haddelta1 "Had Change |1|"

562 . label variable haddelta15 "Had Change |1.5|"

563 . label variable haddelta2 "Had Change |2|"

564 . label variable territory "Territory"

565 . label variable duration "Duration"

566 . label variable intensitylevel "War"

```

567 . label variable number_group "Number of groups"
568 . label variable strongstart "Strong rebels"
569 . label variable anostart "Anocracy"
570 . label variable lngdppcstart "GDP per capita"
571 . label variable lnpopstart "Population"
572 . label variable muslimajstart "Muslim majority"
573 . label variable oilstart "Oil"
574 . label variable youthstartap "Youth bulge/adult pop."
575 . label variable anocracy "Anocracy over time"
576 . label variable lngdppc "GDP per capita over time"
577 . label variable lnpop "Population over time"
578 . label variable foreignfighter "Foreign fighters"
579 . label variable govmlsupport "Government support"
580 . label variable leftist "Leftist"
581 . label variable nonislamistrel "Non-Islamist religious claims"
582 . label variable muslimid "Muslim identity"
583 . label variable secsup_govgov "Government secondary support"

```

584 . label variable rebextpartdummy "Rebel support"

585 .
586 .
587 .
588 . *****
589 . * Summary of new variables
590 . *****
591 .
592 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	1,118	.1359571	.3428964	0	1
delta1_L2	1,118	.2334526	.4232171	0	1
numchanges	1,114	1.280072	1.477175	0	6
counter	1,118	.8658318	2.030183	0	14
haddelta1	1,229	.541904	.4984438	0	1
haddelta15	1,229	.4011391	.4903286	0	1
haddelta2	1,229	.2262002	.4185405	0	1

```

593 .
594 .
595 . *****
596 . * CONTROL VARIABLES
597 . *****
598 .
599 . global X1 territory strongstart oilstart youthstartap muslimajstart

600 . global X2 _yrs _yrs_sq _yrs_cu

601 .
602 . *****

```

```

603 . * TABLE 1
604 . *****
605 .
606 . *Model 1- Replication*
607 .
608 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(6) = 20.45
Log pseudolikelihood = -1125.1127                Prob > chi2 = 0.0023

```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	islamist	.5919864	.0879443	-3.53	0.000	.4424447	.792071
> 8	territory	1.291421	.1592884	2.07	0.038	1.014093	1.64459
> 2	strongstart	.8742423	.1109606	-1.06	0.290	.6817036	1.12116
> 1	oilstart	.9956987	.0049717	-0.86	0.388	.9860018	1.00549
> 1	youthstartap	1.018023	.012456	1.46	0.144	.9939002	1.04273
> 2	muslimajstart	1.097879	.1206258	0.85	0.395	.8851798	1.36168
> 7							

> -

```
609 .
610 . estimates store RepModel

611 .
612 . estimates store RepModel

613 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)
```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)
Muslim majority	1.098 (0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```
614 .
615 . //capture drop sch* sca*
```

```

616 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
617 . //stphtest, rank detail
618 .
619 . *Model 2.A- Binary for Change*
620 .
621 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
    ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

```

```

Log pseudolikelihood = -1120.061                      Wald chi2(7) =  36.83
                                                    Prob > chi2  =  0.0000

```

(Std. err. adjusted for 229 clusters in dyadid)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta1	.6714957	.0649844	-4.12	0.000	.5554791	.811743
> 4							
	islamist	.6505065	.1009116	-2.77	0.006	.4799618	.881650
> 9							
	territory	1.355268	.1676717	2.46	0.014	1.063447	1.72716
> 7							
	strongstart	.8870792	.1166596	-0.91	0.362	.6855215	1.14789
> 9							
	oilstart	.9954508	.0050651	-0.90	0.370	.9855727	1.00542
> 8							
	youthstartap	1.016618	.0124557	1.35	0.179	.992496	1.04132
> 6							
	muslimajstart	1.069161	.1237384	0.58	0.563	.8521776	1.34139

> 3

|

> -

622 .

623 . estimates store SmallChange

624 .

625 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

Repl. Model		
Islamist claim	0.592 (0.088)**	0.651 (0.101)**
Territory	1.291 (0.159)*	1.355 (0.168)*
Strong rebels	0.874 (0.111)	0.887 (0.117)
Oil	0.996 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)
Muslim majority	1.098 (0.121)	1.069 (0.124)
Had Change 1		0.671 (0.065)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

626 .
627 . *Model 2.B- haddelta15*
628 .
629 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 27.85
Prob > chi2   = 0.0002
Log pseudolikelihood = -1121.8946

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta15	.7006017	.0794189	-3.14	0.002	.5610228	.874906
> 8							
	islamist	.6453464	.0978818	-2.89	0.004	.4793894	.868755
> 1							
	territory	1.377048	.174443	2.53	0.012	1.074286	1.76513
> 7							
	strongstart	.8987993	.1174415	-0.82	0.414	.6957297	1.16114
> 1							
	oilstart	.99725	.0051754	-0.53	0.596	.9871579	1.00744
> 5							
	youthstartap	1.018852	.0118092	1.61	0.107	.9959669	1.04226
> 2							
	muslimajstart	1.074406	.1247091	0.62	0.536	.8557897	1.34886
> 8							

```
> -
```



```

630 .
631 . estimates store MedChange

632 .
633 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(Med Delta)

```

Repl. Model			
Islamist claim	0.592 (0.088)**	0.651 (0.101)**	0.645 (0.098)**
Territory	1.291 (0.159)*	1.355 (0.168)*	1.377 (0.174)*
Strong rebels	0.874 (0.111)	0.887 (0.117)	0.899 (0.117)
Oil	0.996 (0.005)	0.995 (0.005)	0.997 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)	1.019 (0.012)
Muslim majority	1.098 (0.121)	1.069 (0.124)	1.074 (0.125)
Had Change 1		0.671 (0.065)**	
Had Change 1.5			0.701 (0.079)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

634 .
635 . *Model 2.C- haddelta2*
636 .
637 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 22.75
Prob > chi2  = 0.0019
Log pseudolikelihood = -1123.1311

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
_t							
haddelta2		.7043636	.1045725	-2.36	0.018	.5265314	.942257
islamist		.6360384	.0919004	-3.13	0.002	.4791751	.844252
territory		1.375339	.1727598	2.54	0.011	1.075197	1.75926
strongstart		.9135001	.1176674	-0.70	0.482	.7096854	1.17584
oilstart		.995834	.0051136	-0.81	0.416	.9858617	1.00590
youthstartap		1.022141	.0124238	1.80	0.072	.9980786	1.04678
muslimajstart		1.078034	.1229273	0.66	0.510	.8621259	1.34801

```
> -
```

```

638 .
639 . estimates store HighChange

640 .
641 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.651 (0.101)**	0.645 (0.098)**	0.636 (0.092)**
Territory	1.291 (0.159)*	1.355 (0.168)*	1.377 (0.174)*	1.375 (0.173)*
Strong rebels	0.874 (0.111)	0.887 (0.117)	0.899 (0.117)	0.914 (0.118)
Oil	0.996 (0.005)	0.995 (0.005)	0.997 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)	1.019 (0.012)	1.022 (0.012)+
Muslim majority	1.098 (0.121)	1.069 (0.124)	1.074 (0.125)	1.078 (0.123)
Had Change 1		0.671 (0.065)**		
Had Change 1.5			0.701 (0.079)**	
Had Change 2				0.704 (0.105)*
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

642 .
643 . //Model 4: Number of changes
644 .
645 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
              Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          165                      Number of obs =      927
No. of failures =          251
Time at risk    = 1,198.3484

                                           Wald chi2(7) =  37.99
Log pseudolikelihood = -776.40032          Prob > chi2   =  0.0000

```

(Std. err. adjusted for 165 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.841262	.0312744	-4.65	0.000	.7821451	.904847
> 1							
	islamist	.6811214	.1128355	-2.32	0.020	.4922812	.942401
> 1							
	territory	1.442784	.2290203	2.31	0.021	1.057026	1.96932
> 2							
	strongstart	.835879	.129482	-1.16	0.247	.6170038	1.13239
> 8							
	oilstart	.9967492	.0059241	-0.55	0.584	.9852054	1.00842
> 8							
	youthstartap	1.02896	.0156985	1.87	0.061	.9986473	1.06019
> 3							
	muslimajstart	1.048368	.1507653	0.33	0.743	.7908657	1.38971
> 1							
> -							

646 . estimates store NumChanges

647 .

648 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —

Repl. Model

>

> —

Islamist claim

0.592 0.651 0.645 0.636 0.681

>

(0.088)** (0.101)** (0.098)** (0.092)** (0.113)*

>

Territory

1.291 1.355 1.377 1.375 1.443

>

(0.159)* (0.168)* (0.174)* (0.173)* (0.229)*

>

Strong rebels

0.874 0.887 0.899 0.914 0.836

>

(0.111) (0.117) (0.117) (0.118) (0.129)

>

Oil

0.996 0.995 0.997 0.996 0.997

>

(0.005) (0.005) (0.005) (0.005) (0.006)

>

Youth bulge/adult pop.

1.018 1.017 1.019 1.022 1.029

>

(0.012) (0.012) (0.012) (0.012)+ (0.016)+

>

Muslim majority

1.098 1.069 1.074 1.078 1.048

>

(0.121) (0.124) (0.125) (0.123) (0.151)

>

Had Change |1|

0.671

>

(0.065)**

>

Had Change |1.5|

0.701

>

(0.079)**

```

>
Had Change |2|                                0.704
>
                                                (0.105)*
>
Change Frequency                                0.841
>
                                                (0.031)**
>
N                1,020        1,020        1,020        1,020        927
>

```

```

> —
                + p<0.1; * p<0.05; ** p<0.01
                Robust standard errors in parentheses clustered on dyad.

```

```

649 .
650 . // Model with other covariates
651 .
652 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

                Failure _d: term==1
                Analysis time _t: (end_of_segment-origin)
                        Origin: time first_year_of_con
                Enter on or after: time start_of_segment
                Exit on or before: time .
                ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =          202                Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Log pseudolikelihood = -877.47279                Wald chi2(12) =  71.20
                                                Prob > chi2    =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

> _____							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> _____							
	haddelta1	.5954876	.065488	-4.71	0.000	.480024	.7387
> 245	anocracy	1.077121	.1108605	0.72	0.470	.8803523	1.317
> 871	secsup_govgov	.5558454	.1556919	-2.10	0.036	.3210207	.962
> 443	rebextpartdummy	.7316459	.1630632	-1.40	0.161	.4727071	1.132
> 426	govmilsupport	.7474559	.1431718	-1.52	0.129	.5135016	1.088
> 001	islamist	.6985745	.1292223	-1.94	0.052	.4861357	1.003
> 848	leftist	.5317537	.0942192	-3.56	0.000	.375742	.7525
> 429	territory	1.3309	.1740887	2.19	0.029	1.02992	1.719
> 836	strongstart	1.020834	.1296069	0.16	0.871	.7959489	1.309
> 258	oilstart	.9949625	.0056162	-0.89	0.371	.9840155	1.006
> 031	youthstartap	1.021477	.0145751	1.49	0.136	.9933062	1.050
> 447	muslimajstart	.9964069	.1186722	-0.03	0.976	.7889664	1.258
> 389							
> _____							

```

653 .
654 . estimates store Model2A

655 .
656 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

```

Model Comparisons					
<hr/>					
> <hr/>					
Repl. Model					
>					
<hr/>					
> <hr/>					
Islamist claim	0.592	0.651	0.645	0.636	0
> .681 0.699					
	(0.088)**	(0.101)**	(0.098)**	(0.092)**	(0.
> 113)* (0.129)+					
Territory	1.291	1.355	1.377	1.375	1
> .443 1.331					
	(0.159)*	(0.168)*	(0.174)*	(0.173)*	(0.
> 229)* (0.174)*					
Strong rebels	0.874	0.887	0.899	0.914	0
> .836 1.021					
	(0.111)	(0.117)	(0.117)	(0.118)	(0
> .129) (0.130)					
Oil	0.996	0.995	0.997	0.996	0
> .997 0.995					
	(0.005)	(0.005)	(0.005)	(0.005)	(0
> .006) (0.006)					
Youth bulge/adult pop.	1.018	1.017	1.019	1.022	1
> .029 1.021					
	(0.012)	(0.012)	(0.012)	(0.012)+	(0.
> 016)+ (0.015)					
Muslim majority	1.098	1.069	1.074	1.078	1
> .048 0.996					
	(0.121)	(0.124)	(0.125)	(0.123)	(0
> .151) (0.119)					
Had Change 1		0.671			
> 0.595					
		(0.065)**			
> (0.065)**					
Had Change 1.5			0.701		
>					
			(0.079)**		

>					
Had Change 2					0.704
>					
					(0.105)*
>					
Change Frequency					0
> .841					
					(0.
> 031)**					
Anocracy over time					
> 1.077					
> (0.111)					
Government secondary support					
> 0.556					
> (0.156)*					
Rebel support					
> 0.732					
> (0.163)					
Government support					
> 0.747					
> (0.143)					
Leftist					
> 0.532					
> (0.094)**					
N		1,020	1,020	1,020	1,020
> 927	865				

> + p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

657 .
658 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      149                      Number of obs =      784
No. of failures =      203
Time at risk    = 984.5986

Wald chi2(12) = 63.71
Log pseudolikelihood = -599.48501              Prob > chi2    = 0.0000

```

(Std. err. adjusted for 149 clusters in dyad

```
> id)
```

> —							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all							
> —							
	numchanges	.7812097	.0432797	−4.46	0.000	.7008262	.8708
> 131							
	anocracy	1.149618	.1535749	1.04	0.297	.8847968	1.493
> 701							
	secsup_govgov	.5748879	.1686221	−1.89	0.059	.3235301	1.021
> 531							
	rebextpartdummy	.6492079	.1560799	−1.80	0.072	.4052672	1.039
> 983							
	govmlsupport	.7422123	.1599795	−1.38	0.167	.4864707	1.132
> 399							
	islamist	.8058042	.1570395	−1.11	0.268	.5499748	1.180
> 637							
	leftist	.5608096	.1057599	−3.07	0.002	.3875183	.8115
> 937							
	territory	1.482717	.2680796	2.18	0.029	1.0403	2.113
> 284							
	strongstart	.9805497	.1529213	−0.13	0.900	.7223052	1.331

```

> 124
      oilstart |      .9955246      .0067449      -0.66      0.508      .9823923      1.008
> 832
      youthstartap |      1.035673      .0185597      1.96      0.050      .9999277      1.072
> 695
      muslimajstart |      .9934501      .1491918      -0.04      0.965      .7401445      1.333
> 446
_____
> —

```

```

659 .
660 . estimates store Model2B

661 .
662 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

```

Model Comparisons						

Repl. Model						

Islamist claim			0.592	0.651	0.645	0.636
> .681	0.699	0.806				0
			(0.088)**	(0.101)**	(0.098)**	(0.092)**
> 113)*	(0.129)+	(0.157)				
Territory			1.291	1.355	1.377	1.375
> .443	1.331	1.483				1
			(0.159)*	(0.168)*	(0.174)*	(0.173)*
> 229)*	(0.174)*	(0.268)*				
Strong rebels			0.874	0.887	0.899	0.914
> .836	1.021	0.981				0
			(0.111)	(0.117)	(0.117)	(0.118)
> .129)	(0.130)	(0.153)				(0
Oil			0.996	0.995	0.997	0.996
> .997	0.995	0.996				0
			(0.005)	(0.005)	(0.005)	(0.005)
> .006)	(0.006)	(0.007)				
Youth bulge/adult pop.			1.018	1.017	1.019	1.022
> .029	1.021	1.036				1
			(0.012)	(0.012)	(0.012)	(0.012)+
> 016)+	(0.015)	(0.019)+				(0.
Muslim majority			1.098	1.069	1.074	1.078
						1

> .048	0.996	0.993					
			(0.121)	(0.124)	(0.125)	(0.123)	(0
> .151)	(0.119)	(0.149)					
Had Change 1				0.671			
>	0.595						
				(0.065)**			
>	(0.065)**						
Had Change 1.5					0.701		
>							
					(0.079)**		
>							
Had Change 2						0.704	
>							
						(0.105)*	
>							
Change Frequency							0
> .841		0.781					
							(0.
> 031)**		(0.043)**					
Anocracy over time							
>	1.077	1.150					
>	(0.111)	(0.154)					
Government secondary support							
>	0.556	0.575					
>	(0.156)*	(0.169)+					
Rebel support							
>	0.732	0.649					
>	(0.163)	(0.156)+					
Government support							
>	0.747	0.742					
>	(0.143)	(0.160)					
Leftist							
>	0.532	0.561					
>	(0.094)**	(0.106)**					
N			1,020	1,020	1,020	1,020	
> 927	865	784					

> _____

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

663 .
664 .
665 . *****
666 . ** Results Plots
667 . *****
668 .
669 .
670 . * d/l lean2 plot for bw graph *
671 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

672 . set scheme lean2

673 .
674 . ** Figure A[X] of Document **
675 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 1, T=90")

676 . graph export thresh_1_90.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
        > hresh_1_90.pdf saved as PDF format

677 .
    end of do-file

678 . *saves: thresh_1_1.pdf
679 . do 06dRobustnessTerminationComparision_1_1.do

680 .
681 . clear all

```

```

682 .
683 .
684 . *To run the do-file you need to install the following:
685 .
686 . *1. To generate summary statistics:
687 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

688 .
689 . *2. To generate graphs:
690 . ssc install blindschemes, replace all
    checking blindschemes consistency and verifying not already installed...
    all files already exist and are up to date.

691 . set scheme plottig, permanently
    (set scheme preference recorded)

692 .
693 . *3. To generate tables:
694 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

695 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

696 .
697 . * Latex code
698 . ssc install estout, replace
    checking estout consistency and verifying not already installed...
    all files already exist and are up to date.

```

```

699 .
700 . * Coefplot
701 . ssc install coefplot
    checking coefplot consistency and verifying not already installed...
    all files already exist and are up to date.

702 .
703 . *****
    > *****
704 .
705 . * load data:
706 . * Threshold 1 article/year for all years (basically same):
707 . use "./data/terminationplus_1_1.dta"

708 .
709 . sort dyadid year

710 .
711 . *****
712 . * STSET FOR SURVIVAL ANALYSIS
713 . *****
714 .
715 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
    > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

    ID variable: dyadid
    Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
    Enter on or after: time start_of_segment
    Exit on or before: time .
    Time for analysis: (time-origin)
    Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

716 .
717 .
718 . *****
719 . * DESCRIPTIVE STATISTICS
720 . *****
721 . *****
722 . * CREATE LABELS
723 . *****
724 .
725 . label variable term "Termination"

726 . label variable islamist "Islamist claim"

727 . label variable counter "Years From Change"

728 . label variable delta1 "Change Year, Delta 1"

729 . label variable delta1 "Change Year, Delta 1"

730 . label variable delta1_L2 "Change in Prev 2 years"

731 . label variable numchanges "Change Frequency"

```


732 . label variable haddelta1 "Had Change |1|"
733 . label variable haddelta15 "Had Change |1.5|"
734 . label variable haddelta2 "Had Change |2|"
735 . label variable territory "Territory"
736 . label variable duration "Duration"
737 . label variable intensitylevel "War"
738 . label variable number_group "Number of groups"
739 . label variable strongstart "Strong rebels"
740 . label variable anostart "Anocracy"
741 . label variable lngdppcstart "GDP per capita"
742 . label variable lnpopstart "Population"
743 . label variable muslimajstart "Muslim majority"
744 . label variable oilstart "Oil"
745 . label variable youthstartap "Youth bulge/adult pop."
746 . label variable anocracy "Anocracy over time"
747 . label variable lngdppc "GDP per capita over time"
748 . label variable lnpop "Population over time"

```

749 . label variable foreignfighter "Foreign fighters"
750 . label variable govmilsupport "Government support"
751 . label variable leftist "Leftist"
752 . label variable nonislamistrel "Non-Islamist religious claims"
753 . label variable muslimid "Muslim identity"
754 . label variable secsup_govgov "Government secondary support"
755 . label variable rebextpartdummy "Rebel support"
756 .
757 .
758 .
759 . *****
760 . * Summary of new variables
761 . *****
762 .
763 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	1,118	.1359571	.3428964	0	1
delta1_L2	1,118	.2334526	.4232171	0	1
numchanges	1,114	1.280072	1.477175	0	6
counter	1,118	.8658318	2.030183	0	14
haddelta1	1,229	.541904	.4984438	0	1
haddelta15	1,229	.4011391	.4903286	0	1
haddelta2	1,229	.2262002	.4185405	0	1

```

764 .
765 .
766 . *****
767 . * CONTROL VARIABLES
768 . *****
769 .
770 . global X1 territory strongstart oilstart youthstartap muslimajstart

771 . global X2 _yrs _yrs_sq _yrs_cu

772 .
773 . *****
774 . * TABLE 1
775 . *****
776 .
777 . *Model 1- Replication*
778 .
779 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1127	Wald chi2(6) =	20.45
		Prob > chi2 =	0.0023

```

> )
                                     (Std. err. adjusted for 229 clusters in dyadid
> -

```

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
islamist	.5919864	.0879443	-3.53	0.000	.4424447 .792071
territory	1.291421	.1592884	2.07	0.038	1.014093 1.64459
strongstart	.8742423	.1109606	-1.06	0.290	.6817036 1.12116
oilstart	.9956987	.0049717	-0.86	0.388	.9860018 1.00549
youthstartap	1.018023	.012456	1.46	0.144	.9939002 1.04273
muslimajstart	1.097879	.1206258	0.85	0.395	.8851798 1.36168

```

> -

```

```

780 .
781 . estimates store RepModel

782 .
783 . estimates store RepModel

784 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018

	(0.012)
Muslim majority	1.098
	(0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

785 .
786 . //capture drop sch* sca*
787 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
788 . //stphtest, rank detail
789 .
790 . *Model 2.A- Binary for Change*
791 .
792 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1120.061	Wald chi2(7) =	36.83
		Prob > chi2 =	0.0000

```

                                (Std. err. adjusted for 229 clusters in dyadid
> )
> -
      _t | Haz. ratio   Robust      z   P>|z|   [95% conf. interval
> ]
      ---|-----
> -
    haddelta1 | .6714957 .0649844  -4.12  0.000   .5554791   .811743
> 4
    islamist | .6505065 .1009116  -2.77  0.006   .4799618   .881650
> 9
    territory | 1.355268 .1676717   2.46  0.014   1.063447   1.72716
> 7
    strongstart | .8870792 .1166596  -0.91  0.362   .6855215   1.14789
> 9
    oilstart | .9954508 .0050651  -0.90  0.370   .9855727   1.00542
> 8
    youthstartap | 1.016618 .0124557   1.35  0.179   .992496   1.04132
> 6
    muslimajstart | 1.069161 .1237384   0.58  0.563   .8521776   1.34139
> 3
      ---|-----
> -

```

```

793 .
794 . estimates store SmallChange

795 .
796 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

```

Repl. Model		
Islamist claim	0.592 (0.088)**	0.651 (0.101)**
Territory	1.291 (0.159)*	1.355 (0.168)*
Strong rebels	0.874 (0.111)	0.887 (0.117)
Oil	0.996 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018	1.017

	(0.012)	(0.012)
Muslim majority	1.098	1.069
	(0.121)	(0.124)
Had Change 1		0.671
		(0.065)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

797 .
798 . *Model 2.B- haddelta15*
799 .
800 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 27.85
Log pseudolikelihood = -1121.8946              Prob > chi2 = 0.0002

```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
	_t						
> -							
	haddelta15	.7006017	.0794189	-3.14	0.002	.5610228	.874906
> 8	islamist	.6453464	.0978818	-2.89	0.004	.4793894	.868755
> 1	territory	1.377048	.174443	2.53	0.012	1.074286	1.76513

```

> 7
  strongstart |   .8987993   .1174415   -0.82   0.414   .6957297   1.16114
> 1
  oilstart |   .99725   .0051754   -0.53   0.596   .9871579   1.00744
> 5
  youthstartap |  1.018852   .0118092   1.61   0.107   .9959669   1.04226
> 2
  muslimajstart |  1.074406   .1247091   0.62   0.536   .8557897   1.34886
> 8

```

```

> -

```

801 .

802 . estimates store MedChange

803 .

804 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

Repl. Model			
Islamist claim	0.592 (0.088)**	0.651 (0.101)**	0.645 (0.098)**
Territory	1.291 (0.159)*	1.355 (0.168)*	1.377 (0.174)*
Strong rebels	0.874 (0.111)	0.887 (0.117)	0.899 (0.117)
Oil	0.996 (0.005)	0.995 (0.005)	0.997 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)	1.019 (0.012)
Muslim majority	1.098 (0.121)	1.069 (0.124)	1.074 (0.125)
Had Change 1		0.671 (0.065)**	
Had Change 1.5			0.701 (0.079)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.


```

805 .
806 . *Model 2.C- haddelta2*
807 .
808 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 22.75
Prob > chi2   = 0.0019
Log pseudolikelihood = -1123.1311

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.7043636	.1045725	-2.36	0.018	.5265314	.942257
> 4							
	islamist	.6360384	.0919004	-3.13	0.002	.4791751	.844252
> 6							
	territory	1.375339	.1727598	2.54	0.011	1.075197	1.75926
> 5							
	strongstart	.9135001	.1176674	-0.70	0.482	.7096854	1.17584
> 8							
	oilstart	.995834	.0051136	-0.81	0.416	.9858617	1.00590
> 7							
	youthstartap	1.022141	.0124238	1.80	0.072	.9980786	1.04678
> 4							
	muslimajstart	1.078034	.1229273	0.66	0.510	.8621259	1.34801
> 4							

```
> -
```

```

809 .
810 . estimates store HighChange

811 .
812 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.651 (0.101)**	0.645 (0.098)**	0.636 (0.092)**
Territory	1.291 (0.159)*	1.355 (0.168)*	1.377 (0.174)*	1.375 (0.173)*
Strong rebels	0.874 (0.111)	0.887 (0.117)	0.899 (0.117)	0.914 (0.118)
Oil	0.996 (0.005)	0.995 (0.005)	0.997 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.017 (0.012)	1.019 (0.012)	1.022 (0.012)+
Muslim majority	1.098 (0.121)	1.069 (0.124)	1.074 (0.125)	1.078 (0.123)
Had Change 1		0.671 (0.065)**		
Had Change 1.5			0.701 (0.079)**	
Had Change 2				0.704 (0.105)*
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

813 .
814 . //Model 4: Number of changes
815 .
816 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      165                      Number of obs =    927
No. of failures =      251
Time at risk    = 1,198.3484

Wald chi2(7) = 37.99
Log pseudolikelihood = -776.40032              Prob > chi2 = 0.0000

```

(Std. err. adjusted for 165 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.841262	.0312744	-4.65	0.000	.7821451	.904847
> 1							
	islamist	.6811214	.1128355	-2.32	0.020	.4922812	.942401
> 1							
	territory	1.442784	.2290203	2.31	0.021	1.057026	1.96932
> 2							
	strongstart	.835879	.129482	-1.16	0.247	.6170038	1.13239
> 8							
	oilstart	.9967492	.0059241	-0.55	0.584	.9852054	1.00842
> 8							
	youthstartap	1.02896	.0156985	1.87	0.061	.9986473	1.06019
> 3							
	muslimajstart	1.048368	.1507653	0.33	0.743	.7908657	1.38971
> 1							
> -							

817 . estimates store NumChanges

818 .

819 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —

Repl. Model

>

> —

Islamist claim

0.592 0.651 0.645 0.636 0.681

>

(0.088)** (0.101)** (0.098)** (0.092)** (0.113)*

>

Territory

1.291 1.355 1.377 1.375 1.443

>

(0.159)* (0.168)* (0.174)* (0.173)* (0.229)*

>

Strong rebels

0.874 0.887 0.899 0.914 0.836

>

(0.111) (0.117) (0.117) (0.118) (0.129)

>

Oil

0.996 0.995 0.997 0.996 0.997

>

(0.005) (0.005) (0.005) (0.005) (0.006)

>

Youth bulge/adult pop.

1.018 1.017 1.019 1.022 1.029

>

(0.012) (0.012) (0.012) (0.012)+ (0.016)+

>

Muslim majority

1.098 1.069 1.074 1.078 1.048

>

(0.121) (0.124) (0.125) (0.123) (0.151)

>

Had Change |1|

0.671

>

(0.065)**

>

Had Change |1.5|

0.701

>

(0.079)**

```

>
Had Change |2|                                0.704
>
                                                (0.105)*
>
Change Frequency                                0.841
>
                                                (0.031)**
>
N                1,020        1,020        1,020        1,020        927
>

```

```

> —
                + p<0.1; * p<0.05; ** p<0.01
                Robust standard errors in parentheses clustered on dyad.

```

```

820 .
821 . // Model with other covariates
822 .
823 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

                Failure _d: term==1
                Analysis time _t: (end_of_segment-origin)
                        Origin: time first_year_of_con
                Enter on or after: time start_of_segment
                Exit on or before: time .
                ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =          202                Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Log pseudolikelihood = -877.47279                Wald chi2(12) =   71.20
                                                Prob > chi2    =   0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

> _____							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> _____							
	haddelta1	.5954876	.065488	−4.71	0.000	.480024	.7387
> 245	anocracy	1.077121	.1108605	0.72	0.470	.8803523	1.317
> 871	secsup_govgov	.5558454	.1556919	−2.10	0.036	.3210207	.962
> 443	rebextpartdummy	.7316459	.1630632	−1.40	0.161	.4727071	1.132
> 426	govmilsupport	.7474559	.1431718	−1.52	0.129	.5135016	1.088
> 001	islamist	.6985745	.1292223	−1.94	0.052	.4861357	1.003
> 848	leftist	.5317537	.0942192	−3.56	0.000	.375742	.7525
> 429	territory	1.3309	.1740887	2.19	0.029	1.02992	1.719
> 836	strongstart	1.020834	.1296069	0.16	0.871	.7959489	1.309
> 258	oilstart	.9949625	.0056162	−0.89	0.371	.9840155	1.006
> 031	youthstartap	1.021477	.0145751	1.49	0.136	.9933062	1.050
> 447	muslimajstart	.9964069	.1186722	−0.03	0.976	.7889664	1.258
> 389							
> _____							

```

824 .
825 . estimates store Model2A

826 .
827 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

```

Model Comparisons					
Repl. Model					
Islamist claim	0.592	0.651	0.645	0.636	0
> .681 0.699	(0.088)**	(0.101)**	(0.098)**	(0.092)**	(0.
> 113)* (0.129)+					
Territory	1.291	1.355	1.377	1.375	1
> .443 1.331	(0.159)*	(0.168)*	(0.174)*	(0.173)*	(0.
> 229)* (0.174)*					
Strong rebels	0.874	0.887	0.899	0.914	0
> .836 1.021	(0.111)	(0.117)	(0.117)	(0.118)	(0
> .129) (0.130)					
Oil	0.996	0.995	0.997	0.996	0
> .997 0.995	(0.005)	(0.005)	(0.005)	(0.005)	(0
> .006) (0.006)					
Youth bulge/adult pop.	1.018	1.017	1.019	1.022	1
> .029 1.021	(0.012)	(0.012)	(0.012)	(0.012)+	(0.
> 016)+ (0.015)					
Muslim majority	1.098	1.069	1.074	1.078	1
> .048 0.996	(0.121)	(0.124)	(0.125)	(0.123)	(0
> .151) (0.119)					
Had Change 1		0.671			
> 0.595		(0.065)**			
> (0.065)**					
Had Change 1.5			0.701		
>			(0.079)**		

>					
Had Change 2					0.704
>					
					(0.105)*
>					
Change Frequency					0
> .841					
					(0.
> 031)**					
Anocracy over time					
> 1.077					
> (0.111)					
Government secondary support					
> 0.556					
> (0.156)*					
Rebel support					
> 0.732					
> (0.163)					
Government support					
> 0.747					
> (0.143)					
Leftist					
> 0.532					
> (0.094)**					
N		1,020	1,020	1,020	1,020
> 927	865				

> _____

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.


```

828 .
829 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      149                      Number of obs =      784
No. of failures =      203
Time at risk    = 984.5986

Wald chi2(12) =  63.71
Log pseudolikelihood = -599.48501              Prob > chi2    =  0.0000

```

(Std. err. adjusted for 149 clusters in dyad

```
> id)
```

> —							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> —							
	numchanges	.7812097	.0432797	−4.46	0.000	.7008262	.8708
> 131							
	anocracy	1.149618	.1535749	1.04	0.297	.8847968	1.493
> 701							
	secsup_govgov	.5748879	.1686221	−1.89	0.059	.3235301	1.021
> 531							
	rebextpartdummy	.6492079	.1560799	−1.80	0.072	.4052672	1.039
> 983							
	govmlsupport	.7422123	.1599795	−1.38	0.167	.4864707	1.132
> 399							
	islamist	.8058042	.1570395	−1.11	0.268	.5499748	1.180
> 637							
	leftist	.5608096	.1057599	−3.07	0.002	.3875183	.8115
> 937							
	territory	1.482717	.2680796	2.18	0.029	1.0403	2.113
> 284							
	strongstart	.9805497	.1529213	−0.13	0.900	.7223052	1.331

```

> 124
      oilstart |      .9955246      .0067449      -0.66      0.508      .9823923      1.008
> 832
      youthstartap |      1.035673      .0185597      1.96      0.050      .9999277      1.072
> 695
      muslimajstart |      .9934501      .1491918      -0.04      0.965      .7401445      1.333
> 446
_____
> —

```

830 .

831 . estimates store Model2B

832 .

```

833 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

```

Model Comparisons

```

> _____
Repl. Model
>
_____
> _____
Islamist claim      0.592      0.651      0.645      0.636      0
> .681      0.699      0.806
      (0.088)** (0.101)** (0.098)** (0.092)** (0.
> 113)* (0.129)+ (0.157)
Territory      1.291      1.355      1.377      1.375      1
> .443      1.331      1.483
      (0.159)* (0.168)* (0.174)* (0.173)* (0.
> 229)* (0.174)* (0.268)*
Strong rebels      0.874      0.887      0.899      0.914      0
> .836      1.021      0.981
      (0.111) (0.117) (0.117) (0.118) (0
> .129) (0.130) (0.153)
Oil      0.996      0.995      0.997      0.996      0
> .997      0.995      0.996
      (0.005) (0.005) (0.005) (0.005) (0
> .006) (0.006) (0.007)
Youth bulge/adult pop.      1.018      1.017      1.019      1.022      1
> .029      1.021      1.036
      (0.012) (0.012) (0.012) (0.012)+ (0.
> 016)+ (0.015) (0.019)+
Muslim majority      1.098      1.069      1.074      1.078      1

```

> .048	0.996	0.993					
			(0.121)	(0.124)	(0.125)	(0.123)	(0
> .151)	(0.119)	(0.149)					
Had Change 1				0.671			
>	0.595						
				(0.065)**			
>	(0.065)**						
Had Change 1.5					0.701		
>							
					(0.079)**		
>							
Had Change 2						0.704	
>							
						(0.105)*	
>							
Change Frequency							0
> .841		0.781					
							(0.
> 031)**		(0.043)**					
Anocracy over time							
>	1.077	1.150					
>	(0.111)	(0.154)					
Government secondary support							
>	0.556	0.575					
>	(0.156)*	(0.169)+					
Rebel support							
>	0.732	0.649					
>	(0.163)	(0.156)+					
Government support							
>	0.747	0.742					
>	(0.143)	(0.160)					
Leftist							
>	0.532	0.561					
>	(0.094)**	(0.106)**					
N			1,020	1,020	1,020	1,020	
> 927	865	784					

> _____

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

834 .
835 .
836 . *****
837 . ** Results Plots
838 . *****
839 .
840 . * d/l lean2 plot for bw graph *
841 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

842 . set scheme lean2

843 .
844 . ** Appendix Comparison Figure **
845 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 1, T=100")

846 . graph export thresh_1_1.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
      (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
    > hresh_1_1.pdf saved as PDF format

847 .
848 .
    end of do-file

849 .
850 . * Threshold: 5 words for.75, .90, 1 percent of years
851 .
852 . *saves: thresh_5_75.pdf
853 . do 06dRobustnessTerminationComparision_5_75.do

```

```
854 .
855 . clear all

856 .
857 . *To run the do-file you need to install the following:
858 . *1. To generate summary statistics:
859 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

860 .
861 . *2. To generate graphs:
862 . ssc install blindschemes, replace all
    checking blindschemes consistency and verifying not already installed...
    all files already exist and are up to date.

863 . set scheme plottig, permanently
    (set scheme preference recorded)

864 .
865 . *3. To generate tables:
866 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

867 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

868 .
869 . * Latex code
870 . ssc install estout, replace
    checking estout consistency and verifying not already installed...
    all files already exist and are up to date.
```

```

871 .
872 . * Coefplot
873 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

874 .
875 . *****
876 .
877 . * load data:
878 . * Threshold:
879 . use "./data/terminationplus_5_75.dta"

880 .
881 . sort dyadid year

882 .
883 . *****
884 . * STSET FOR SURVIVAL ANALYSIS
885 . *****
886 .
887 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
      > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment)
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
      Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

888 .
889 .
890 . *****
891 . * DESCRIPTIVE STATISTICS
892 . *****
893 . *****
894 . * CREATE LABELS
895 . *****
896 .
897 . label variable term "Termination"

898 . label variable islamist "Islamist claim"

899 . label variable counter "Years From Change"

900 . label variable delta1 "Change Year, Delta 1"

901 . label variable delta1 "Change Year, Delta 1"

902 . label variable delta1_L2 "Change in Prev 2 years"

903 . label variable numchanges "Change Frequency"

904 . label variable haddelta1 "Had Change |1|"

905 . label variable haddelta15 "Had Change |1.5|"

906 . label variable haddelta2 "Had Change |2|"

907 . label variable territory "Territory"

908 . label variable duration "Duration"

909 . label variable intensitylevel "War"

```

910 . label variable number_group "Number of groups"
911 . label variable strongstart "Strong rebels"
912 . label variable anostart "Anocracy"
913 . label variable lngdppcstart "GDP per capita"
914 . label variable lnpopstart "Population"
915 . label variable muslimajstart "Muslim majority"
916 . label variable oilstart "Oil"
917 . label variable youthstartap "Youth bulge/adult pop."
918 . label variable anocracy "Anocracy over time"
919 . label variable lngdppc "GDP per capita over time"
920 . label variable lnpop "Population over time"
921 . label variable foreignfighter "Foreign fighters"
922 . label variable govmlsupport "Government support"
923 . label variable leftist "Leftist"
924 . label variable nonislamistrel "Non-Islamist religious claims"
925 . label variable muslimid "Muslim identity"
926 . label variable secsup_govgov "Government secondary support"


```

927 . label variable rebextpartdummy "Rebel support"

928 .
929 .
930 .
931 . *****
932 . * Summary of new variables
933 . *****
934 .
935 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	655	.1282443	.3346171	0	1
delta1_L2	655	.2167939	.412376	0	1
numchanges	655	1.363359	1.583323	0	6
counter	655	.6610687	1.719984	0	14
haddelta1	1,229	.3140765	.464336	0	1
haddelta15	1,229	.2278275	.4196015	0	1
haddelta2	1,229	.1611066	.3677789	0	1

```

936 .
937 .
938 . *****
939 . * CONTROL VARIABLES
940 . *****
941 .
942 . global X1 territory strongstart oilstart youthstartap muslimajstart

943 . global X2 _yrs _yrs_sq _yrs_cu

944 .
945 . *****

```

```

946 . * TABLE 1
947 . *****
948 .
949 . *Model 1- Replication*
950 .
951 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(6) = 20.45
Log pseudolikelihood = -1125.1127                Prob > chi2 = 0.0023

```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	islamist	.5919864	.0879443	-3.53	0.000	.4424447	.792071
> 8	territory	1.291421	.1592884	2.07	0.038	1.014093	1.64459
> 2	strongstart	.8742423	.1109606	-1.06	0.290	.6817036	1.12116
> 1	oilstart	.9956987	.0049717	-0.86	0.388	.9860018	1.00549
> 1	youthstartap	1.018023	.012456	1.46	0.144	.9939002	1.04273
> 2	muslimajstart	1.097879	.1206258	0.85	0.395	.8851798	1.36168
> 7							

> -

```

952 .
953 . estimates store RepModel

954 .
955 . estimates store RepModel

956 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)
Muslim majority	1.098 (0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

957 .
958 . //capture drop sch* sca*

```


> 5

|

> -

965 .

966 . estimates store SmallChange

967 .

968 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

Repl. Model		
Islamist claim	0.592 (0.088)**	0.646 (0.093)**
Territory	1.291 (0.159)*	1.225 (0.147)+
Strong rebels	0.874 (0.111)	0.842 (0.108)
Oil	0.996 (0.005)	0.992 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.011 (0.013)
Muslim majority	1.098 (0.121)	1.050 (0.120)
Had Change 1		0.586 (0.069)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

969 .
970 . *Model 2.B- haddelta15*
971 .
972 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 24.43
Prob > chi2   = 0.0010
Log pseudolikelihood = -1121.9659

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta15	.6098218	.1058663	-2.85	0.004	.4339429	.856985
> 2							
	islamist	.6543929	.0925129	-3.00	0.003	.4960237	.863325
> 7							
	territory	1.257492	.1520902	1.89	0.058	.9920985	1.5938
> 8							
	strongstart	.8721561	.1098628	-1.09	0.278	.6813512	1.11639
> 4							
	oilstart	.9951957	.005096	-0.94	0.347	.9852578	1.00523
> 4							
	youthstartap	1.013315	.0120472	1.11	0.266	.9899765	1.03720
> 5							
	muslimajstart	1.051067	.1203354	0.44	0.664	.8398033	1.31547
> 8							

```
> -
```

```

973 .
974 . estimates store MedChange

975 .
976 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(Med Delta)

```

Repl. Model			
Islamist claim	0.592 (0.088)**	0.646 (0.093)**	0.654 (0.093)**
Territory	1.291 (0.159)*	1.225 (0.147)+	1.257 (0.152)+
Strong rebels	0.874 (0.111)	0.842 (0.108)	0.872 (0.110)
Oil	0.996 (0.005)	0.992 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.011 (0.013)	1.013 (0.012)
Muslim majority	1.098 (0.121)	1.050 (0.120)	1.051 (0.120)
Had Change 1		0.586 (0.069)**	
Had Change 1.5			0.610 (0.106)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

977 .
978 . *Model 2.C- haddelta2*
979 .
980 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 21.94
Prob > chi2   = 0.0026
Log pseudolikelihood = -1122.4387

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.5767346	.1405215	-2.26	0.024	.3577508	.929761
> 3							
	islamist	.6710125	.0942836	-2.84	0.005	.5094819	.883756
> 2							
	territory	1.340115	.1634586	2.40	0.016	1.055159	1.70202
> 6							
	strongstart	.8818022	.1122571	-0.99	0.323	.6870838	1.13170
> 4							
	oilstart	.9939546	.0051043	-1.18	0.238	.9840006	1.00400
> 9							
	youthstartap	1.019616	.0125045	1.58	0.113	.9953996	1.04442
> 1							
	muslimajstart	1.070214	.1228778	0.59	0.555	.8545531	1.34030
> 1							

```
> -
```



```

981 .
982 . estimates store HighChange

983 .
984 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.646 (0.093)**	0.654 (0.093)**	0.671 (0.094)**
Territory	1.291 (0.159)*	1.225 (0.147)+	1.257 (0.152)+	1.340 (0.163)*
Strong rebels	0.874 (0.111)	0.842 (0.108)	0.872 (0.110)	0.882 (0.112)
Oil	0.996 (0.005)	0.992 (0.005)	0.995 (0.005)	0.994 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.011 (0.013)	1.013 (0.012)	1.020 (0.013)
Muslim majority	1.098 (0.121)	1.050 (0.120)	1.051 (0.120)	1.070 (0.123)
Had Change 1		0.586 (0.069)**		
Had Change 1.5			0.610 (0.106)**	
Had Change 2				0.577 (0.141)*
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

985 .
986 . //Model 4: Number of changes
987 .
988 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      80                      Number of obs =    529
No. of failures =     106
Time at risk    = 621.1992

Wald chi2(7) = 29.09
Log pseudolikelihood = -265.45805              Prob > chi2 = 0.0001

```

(Std. err. adjusted for 80 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.8091929	.0496263	-3.45	0.001	.7175455	.912545
> 8							
	islamist	.5876187	.1710119	-1.83	0.068	.3321806	1.03948
> 2							
	territory	1.577859	.4460363	1.61	0.107	.9066642	2.74593
> 1							
	strongstart	.9889953	.2264152	-0.05	0.961	.6314294	1.54904
> 4							
	oilstart	.987988	.00966	-1.24	0.216	.9692349	1.00710
> 4							
	youthstartap	1.008215	.0205233	0.40	0.688	.968782	1.04925
> 3							
	muslimajstart	1.023887	.2675316	0.09	0.928	.6135379	1.70868
> 7							

```
> -
```

989 . estimates store NumChanges

990 .

991 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

<hr/>					
> —					
Repl. Model					
>					
<hr/>					
> —					
Islamist claim	0.592	0.646	0.654	0.671	0.588
>	(0.088)**	(0.093)**	(0.093)**	(0.094)**	(0.171)+
>					
Territory	1.291	1.225	1.257	1.340	1.578
>	(0.159)*	(0.147)+	(0.152)+	(0.163)*	(0.446)
>					
Strong rebels	0.874	0.842	0.872	0.882	0.989
>	(0.111)	(0.108)	(0.110)	(0.112)	(0.226)
>					
Oil	0.996	0.992	0.995	0.994	0.988
>	(0.005)	(0.005)	(0.005)	(0.005)	(0.010)
>					
Youth bulge/adult pop.	1.018	1.011	1.013	1.020	1.008
>	(0.012)	(0.013)	(0.012)	(0.013)	(0.021)
>					
Muslim majority	1.098	1.050	1.051	1.070	1.024
>	(0.121)	(0.120)	(0.120)	(0.123)	(0.268)
>					
Had Change 1		0.586			
>		(0.069)**			
>					
Had Change 1.5			0.610		
>			(0.106)**		

```

>
Had Change |2|                                0.577
>
                                                (0.141)*
>
Change Frequency                                0.809
>
                                                (0.050)**
>
N                1,020        1,020        1,020        1,020        529
>

```

```

> —
                + p<0.1; * p<0.05; ** p<0.01
                Robust standard errors in parentheses clustered on dyad.

```

```

992 .
993 . // Model with other covariates
994 .
995 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

                Failure _d: term==1
                Analysis time _t: (end_of_segment-origin)
                        Origin: time first_year_of_con
                Enter on or after: time start_of_segment
                Exit on or before: time .
                ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =          202                Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Log pseudolikelihood = -879.99055                Wald chi2(12) =  54.17
                                                Prob > chi2    =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

> _____							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all							
> _____							
	haddelta1	.6021474	.0801641	-3.81	0.000	.4638547	.7816
> 703	anocracy	1.122134	.1153535	1.12	0.262	.9173656	1.372
> 609	secsup_govgov	.5929283	.167998	-1.84	0.065	.3402719	1.033
> 186	rebextpartdummy	.7754001	.1669917	-1.18	0.238	.5084046	1.182
> 612	govmilsupport	.7890647	.1507533	-1.24	0.215	.5426102	1.147
> 459	islamist	.6625667	.1152132	-2.37	0.018	.4712104	.931
> 632	leftist	.5553197	.1002661	-3.26	0.001	.3898108	.7911
> 016	territory	1.150992	.1517802	1.07	0.286	.8888434	1.490
> 457	strongstart	.9464697	.1257725	-0.41	0.679	.7294475	1.22
> 806	oilstart	.9934236	.0056387	-1.16	0.245	.9824333	1.004
> 537	youthstartap	1.014831	.0150424	0.99	0.321	.9857729	1.044
> 746	muslimajstart	.995834	.116183	-0.04	0.971	.792279	1.251
> 687							
> _____							

```

996 .
997 . estimates store Model2A

998 .
999 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

```

Model Comparisons					
<hr/>					
> <hr/>					
Repl. Model					
>					
<hr/>					
> <hr/>					
Islamist claim	0.592	0.646	0.654	0.671	0
> .588 0.663	(0.088)**	(0.093)**	(0.093)**	(0.094)**	(0.
> 171)+ (0.115)*					
Territory	1.291	1.225	1.257	1.340	1
> .578 1.151	(0.159)*	(0.147)+	(0.152)+	(0.163)*	(0
> .446) (0.152)					
Strong rebels	0.874	0.842	0.872	0.882	0
> .989 0.946	(0.111)	(0.108)	(0.110)	(0.112)	(0
> .226) (0.126)					
Oil	0.996	0.992	0.995	0.994	0
> .988 0.993	(0.005)	(0.005)	(0.005)	(0.005)	(0
> .010) (0.006)					
Youth bulge/adult pop.	1.018	1.011	1.013	1.020	1
> .008 1.015	(0.012)	(0.013)	(0.012)	(0.013)	(0
> .021) (0.015)					
Muslim majority	1.098	1.050	1.051	1.070	1
> .024 0.996	(0.121)	(0.120)	(0.120)	(0.123)	(0
> .268) (0.116)					
Had Change 1		0.586			
> 0.602		(0.069)**			
> (0.080)**					
Had Change 1.5			0.610		
>			(0.106)**		

>					
Had Change 2					0.577
>					
					(0.141)*
>					
Change Frequency					0
> .809					
					(0.
> 050)**					
Anocracy over time					
> 1.122					
> (0.115)					
Government secondary support					
> 0.593					
> (0.168)+					
Rebel support					
> 0.775					
> (0.167)					
Government support					
> 0.789					
> (0.151)					
Leftist					
> 0.555					
> (0.100)**					
N		1,020	1,020	1,020	1,020
> 529	865				

> _____

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1000 .
1001 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      72                      Number of obs =    429
No. of failures =      84
Time at risk    = 493.3494

Wald chi2(12) =  56.47
Log pseudolikelihood = -191.20493              Prob > chi2    = 0.0000

```

(Std. err. adjusted for 72 clusters in **dyad**)

> id)							
> —							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> —							
	numchanges	.7040924	.0748531	−3.30	0.001	.5716591	.8672
> 057							
	anocracy	1.024142	.2197036	0.11	0.911	.6725994	1.559
> 423							
	secsup_govgov	.4014476	.1853253	−1.98	0.048	.1624344	.9921
> 554							
	rebextpartdummy	.5162524	.1813658	−1.88	0.060	.2593131	1.027
> 779							
	govmlsupport	.6451007	.2442104	−1.16	0.247	.3071817	1.354
> 752							
	islamist	.8248902	.316222	−0.50	0.616	.3891236	1.748
> 657							
	leftist	.3820545	.1666965	−2.21	0.027	.1624548	.8985
> 001							
	territory	1.495503	.4626499	1.30	0.193	.815566	2.742
> 304							
	strongstart	1.274475	.3151355	0.98	0.327	.7849779	2.069


```

> 214
      oilstart |      .9875166      .0114451      -1.08      0.278      .9653374      1.010
> 205
      youthstartap |      1.00629      .023367      0.27      0.787      .9615183      1.053
> 147
      muslimajstart |      .9878828      .2854672      -0.04      0.966      .5607055      1.740
> 508
_____
> —

```

1002 .

1003 . estimates store Model2B

1004 .

```

1005 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

```

Model Comparisons

```

> _____
Repl. Model
>
_____
> _____
Islamist claim      0.592      0.646      0.654      0.671      0
> .588      0.663      0.825
      (0.088)** (0.093)** (0.093)** (0.094)** (0.
> 171)+ (0.115)* (0.316)
Territory      1.291      1.225      1.257      1.340      1
> .578      1.151      1.496
      (0.159)* (0.147)+ (0.152)+ (0.163)* (0
> .446) (0.152) (0.463)
Strong rebels      0.874      0.842      0.872      0.882      0
> .989      0.946      1.274
      (0.111) (0.108) (0.110) (0.112) (0
> .226) (0.126) (0.315)
Oil      0.996      0.992      0.995      0.994      0
> .988      0.993      0.988
      (0.005) (0.005) (0.005) (0.005) (0
> .010) (0.006) (0.011)
Youth bulge/adult pop.      1.018      1.011      1.013      1.020      1
> .008      1.015      1.006
      (0.012) (0.013) (0.012) (0.013) (0
> .021) (0.015) (0.023)
Muslim majority      1.098      1.050      1.051      1.070      1

```

> .024	0.996	0.988					
			(0.121)	(0.120)	(0.120)	(0.123)	(0
> .268)	(0.116)	(0.285)					
Had Change 1				0.586			
>	0.602						
				(0.069)**			
>	(0.080)**						
Had Change 1.5					0.610		
>							
					(0.106)**		
>							
Had Change 2						0.577	
>							
						(0.141)*	
>							
Change Frequency							0
> .809		0.704					
							(0.
> 050)**		(0.075)**					
Anocracy over time							
>	1.122	1.024					
>	(0.115)	(0.220)					
Government secondary support							
>	0.593	0.401					
>	(0.168)+	(0.185)*					
Rebel support							
>	0.775	0.516					
>	(0.167)	(0.181)+					
Government support							
>	0.789	0.645					
>	(0.151)	(0.244)					
Leftist							
>	0.555	0.382					
>	(0.100)**	(0.167)*					
N			1,020	1,020	1,020	1,020	
> 529	865	429					

> _____

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1006 .
1007 .
1008 . *****
1009 . ** Results Plots
1010 . *****
1011 .
1012 .
1013 . * d/l lean2 plot for bw graph *
1014 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

1015 . set scheme lean2

1016 .
1017 . ** Appendix Threshold COmparison **
1018 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 5, T=75")

1019 . graph export thresh_5_75.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
        > hresh_5_75.pdf saved as PDF format

1020 .
    end of do-file

1021 . * saves: thresh_5_90.pdf
1022 . do 06dRobustnessTerminationComparision_5_90.do

1023 . clear all

```

1024 .
1025 . *To run the do-file you need to install the following:
1026 . *1. To generate summary statistics:
1027 . ssc install unique, replace all
checking **unique** consistency and verifying not already installed...
all files already exist and are up to date.

1028 .
1029 . *2. To generate graphs:
1030 . ssc install blind schemes, replace all
checking **blind schemes** consistency and verifying not already installed...
all files already exist and are up to date.

1031 . set scheme plottig, permanently
(**set scheme** preference recorded)

1032 .
1033 . *3. To generate tables:
1034 . ssc install outreg
checking **outreg** consistency and verifying not already installed...
all files already exist and are up to date.

1035 . ssc install outreg2
checking **outreg2** consistency and verifying not already installed...
all files already exist and are up to date.

1036 .
1037 . * Latex code
1038 . ssc install estout, replace
checking **estout** consistency and verifying not already installed...
all files already exist and are up to date.

1039 .
1040 . * Coefplot

```

1041 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

1042 .
1043 . *****
      > *****
1044 .
1045 . * set working directory:
1046 .
1047 . * load data:
1048 . * Threshold 1 article/year for all years (basically same):
1049 . use "./data/terminationplus_5_90.dta"

1050 .
1051 . sort dyadid year

1052 .
1053 . *****
1054 . * STSET FOR SURVIVAL ANALYSIS
1055 . *****
1056 .
1057 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
      > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
      Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

1058 .
1059 .
1060 . *****
1061 . * DESCRIPTIVE STATISTICS
1062 . *****
1063 . *****
1064 . * CREATE LABELS
1065 . *****
1066 .
1067 . label variable term "Termination"

1068 . label variable islamist "Islamist claim"

1069 . label variable counter "Years From Change"

1070 . label variable delta1 "Change Year, Delta 1"

1071 . label variable delta1 "Change Year, Delta 1"

1072 . label variable delta1_L2 "Change in Prev 2 years"

1073 . label variable numchanges "Change Frequency"

```

1074 . label variable haddelta1 "Had Change |1|"
1075 . label variable haddelta15 "Had Change |1.5|"
1076 . label variable haddelta2 "Had Change |2|"
1077 . label variable territory "Territory"
1078 . label variable duration "Duration"
1079 . label variable intensitylevel "War"
1080 . label variable number_group "Number of groups"
1081 . label variable strongstart "Strong rebels"
1082 . label variable anostart "Anocracy"
1083 . label variable lngdppcstart "GDP per capita"
1084 . label variable lnpopstart "Population"
1085 . label variable muslimajstart "Muslim majority"
1086 . label variable oilstart "Oil"
1087 . label variable youthstartap "Youth bulge/adult pop."
1088 . label variable anocracy "Anocracy over time"
1089 . label variable lngdppc "GDP per capita over time"
1090 . label variable lnpop "Population over time"

```

1091 . label variable foreignfighter "Foreign fighters"
1092 . label variable govmilsupport "Government support"
1093 . label variable leftist "Leftist"
1094 . label variable nonislamistrel "Non-Islamist religious claims"
1095 . label variable muslimid "Muslim identity"
1096 . label variable secsup_govgov "Government secondary support"
1097 . label variable rebextpartdummy "Rebel support"
1098 .
1099 .
1100 .
1101 . *****
1102 . * Summary of new variables
1103 . *****
1104 .
1105 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	437	.1029748	.3042743	0	1
delta1_L2	437	.173913	.3794691	0	1
numchanges	437	1.196796	1.336739	0	4
counter	437	.4805492	1.392217	0	11
haddelta1	1,229	.2034174	.4027043	0	1
haddelta15	1,229	.1537836	.360888	0	1
haddelta2	1,229	.1098454	.3128243	0	1


```

1106 .
1107 .
1108 . *****
1109 . * CONTROL VARIABLES
1110 . *****
1111 .
1112 . global X1 territory strongstart oilstart youthstartap muslimajstart

1113 . global X2 _yrs _yrs_sq _yrs_cu

1114 .
1115 . *****
1116 . * TABLE 1
1117 . *****
1118 .
1119 . *Model 1- Replication*
1120 .
1121 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1127	Wald chi2(6) =	20.45
		Prob > chi2 =	0.0023

```

> )
                                     (Std. err. adjusted for 229 clusters in dyadid
> -

```

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
islamist	.5919864	.0879443	-3.53	0.000	.4424447 .792071
territory	1.291421	.1592884	2.07	0.038	1.014093 1.64459
strongstart	.8742423	.1109606	-1.06	0.290	.6817036 1.12116
oilstart	.9956987	.0049717	-0.86	0.388	.9860018 1.00549
youthstartap	1.018023	.012456	1.46	0.144	.9939002 1.04273
muslimajstart	1.097879	.1206258	0.85	0.395	.8851798 1.36168

```

> -

```

1122 .

1123 . estimates store RepModel

1124 .

1125 . estimates store RepModel

1126 . outreg using termination=t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018

	(0.012)
Muslim majority	1.098
	(0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1127 .
1128 . //capture drop sch* sca*
1129 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
1130 . //stphtest, rank detail
1131 .
1132 . *Model 2.A- Binary for Change*
1133 .
1134 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

    Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_con
    Enter on or after: time start_of_segment
    Exit on or before: time .
    ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1119.0093	Wald chi2(7) =	34.74
		Prob > chi2 =	0.0000

(Std. err. adjusted for 229 clusters in dyadid

>)

> -							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
>]							
> -							
	haddelta1	.5202455	.0752784	-4.52	0.000	.3917792	.690836
> 5	islamist	.6309588	.0868092	-3.35	0.001	.4818259	.826250
> 8	territory	1.223115	.1472979	1.67	0.094	.9659579	1.54873
> 1	strongstart	.8609998	.1099487	-1.17	0.241	.6703562	1.10586
> 1	oilstart	.9939781	.0049645	-1.21	0.227	.9842953	1.00375
> 6	youthstartap	1.012144	.0126964	0.96	0.336	.9875631	1.03733
> 7	muslimajstart	.9965561	.1140265	-0.03	0.976	.7963551	1.24708
> 7							
> -							

1135 .

1136 . estimates store SmallChange

1137 .

1138 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

Repl. Model		
Islamist claim	0.592 (0.088)**	0.631 (0.087)**
Territory	1.291 (0.159)*	1.223 (0.147)+
Strong rebels	0.874 (0.111)	0.861 (0.110)
Oil	0.996 (0.005)	0.994 (0.005)
Youth bulge/adult pop.	1.018	1.012

	(0.012)	(0.013)
Muslim majority	1.098	0.997
	(0.121)	(0.114)
Had Change 1		0.520
		(0.075)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1139 .
1140 . *Model 2.B- haddelta15*
1141 .
1142 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 27.94
Log pseudolikelihood = -1120.0861              Prob > chi2 = 0.0002
```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
	_t						
> -							
> 1							
> -							
> 1	haddelta15	.4720097	.1039281	-3.41	0.001	.3065714	.726725
> 2							
> 2	islamist	.6667753	.0909995	-2.97	0.003	.5102818	.871262
> 3							
> 3	territory	1.273077	.152668	2.01	0.044	1.006417	1.6103

```

> 9
  strongstart | .8580824 .1086461 -1.21 0.227 .6695055 1.09977
> 5
  oilstart | .9954125 .0049614 -0.92 0.356 .9857357 1.00518
> 4
  youthstartap | 1.013953 .0120363 1.17 0.243 .9906347 1.03782
> 1
  muslimajstart | 1.005394 .1152789 0.05 0.963 .8030401 1.25873
> 8

```

```

> -

```

1143 .

1144 . estimates store MedChange

1145 .

1146 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

Repl. Model			
Islamist claim	0.592 (0.088)**	0.631 (0.087)**	0.667 (0.091)**
Territory	1.291 (0.159)*	1.223 (0.147)+	1.273 (0.153)*
Strong rebels	0.874 (0.111)	0.861 (0.110)	0.858 (0.109)
Oil	0.996 (0.005)	0.994 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.012 (0.013)	1.014 (0.012)
Muslim majority	1.098 (0.121)	0.997 (0.114)	1.005 (0.115)
Had Change 1		0.520 (0.075)**	
Had Change 1.5			0.472 (0.104)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1147 .
1148 . *Model 2.C- haddelta2*
1149 .
1150 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 26.42
Log pseudolikelihood = -1119.6451                Prob > chi2 = 0.0004

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```

> )

```

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
> -						
> 1	haddelta2	.3668905	.1230123	-2.99	0.003	.1901703 .70783
> 2	islamist	.6943321	.0938062	-2.70	0.007	.5328041 .9048
> 3	territory	1.36979	.1700277	2.53	0.011	1.073982 1.74707
> 2	strongstart	.8667705	.1108247	-1.12	0.263	.6746369 1.11362
> 3	oilstart	.9943572	.0049523	-1.14	0.256	.9846982 1.00411
> 1	youthstartap	1.022456	.0125792	1.81	0.071	.9980965 1.04741
> 1	muslimajstart	1.011148	.1150214	0.10	0.922	.8090726 1.26369
> 3						
> -						

```

1151 .
1152 . estimates store HighChange

1153 .
1154 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.631 (0.087)**	0.667 (0.091)**	0.694 (0.094)**
Territory	1.291 (0.159)*	1.223 (0.147)+	1.273 (0.153)*	1.370 (0.170)*
Strong rebels	0.874 (0.111)	0.861 (0.110)	0.858 (0.109)	0.867 (0.111)
Oil	0.996 (0.005)	0.994 (0.005)	0.995 (0.005)	0.994 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.012 (0.013)	1.014 (0.012)	1.022 (0.013)+
Muslim majority	1.098 (0.121)	0.997 (0.114)	1.005 (0.115)	1.011 (0.115)
Had Change 1		0.520 (0.075)**		
Had Change 1.5			0.472 (0.104)**	
Had Change 2				0.367 (0.123)**
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.


```

1155 .
1156 . //Model 4: Number of changes
1157 .
1158 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      55                      Number of obs =    384
No. of failures =      60
Time at risk    = 423.4495

Wald chi2(7) = 16.91
Prob > chi2   = 0.0180
Log pseudolikelihood = -146.96077

```

(Std. err. adjusted for 55 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.792698	.0787702	-2.34	0.019	.6524152	.963144
> 6							
	islamist	.4060694	.1843221	-1.99	0.047	.166811	.988497
> 7							
	territory	1.201849	.4084144	0.54	0.588	.6174379	2.33941
> 2							
	strongstart	1.307138	.3178344	1.10	0.271	.8116133	2.10520
> 1							
	oilstart	.9945409	.0128267	-0.42	0.671	.969716	1.02000
> 1							
	youthstartap	1.002892	.0264284	0.11	0.913	.9524087	1.05605
> 2							
	muslimajstart	.8761051	.2779915	-0.42	0.677	.4703994	1.6317
> 2							

```
> -
```

1159 . estimates store NumChanges

1160 .

1161 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

<hr/>					
> —					
Repl. Model					
<hr/>					
> —					
Islamist claim	0.592	0.631	0.667	0.694	0.406
	(0.088)**	(0.087)**	(0.091)**	(0.094)**	(0.184)*
Territory	1.291	1.223	1.273	1.370	1.202
	(0.159)*	(0.147)+	(0.153)*	(0.170)*	(0.408)
Strong rebels	0.874	0.861	0.858	0.867	1.307
	(0.111)	(0.110)	(0.109)	(0.111)	(0.318)
Oil	0.996	0.994	0.995	0.994	0.995
	(0.005)	(0.005)	(0.005)	(0.005)	(0.013)
Youth bulge/adult pop.	1.018	1.012	1.014	1.022	1.003
	(0.012)	(0.013)	(0.012)	(0.013)+	(0.026)
Muslim majority	1.098	0.997	1.005	1.011	0.876
	(0.121)	(0.114)	(0.115)	(0.115)	(0.278)
Had Change 1		0.520			
		(0.075)**			
Had Change 1.5			0.472		
			(0.104)**		
Had Change 2				0.367	
				(0.123)**	
Change Frequency					0.793
					(0.079)*
N	1,020	1,020	1,020	1,020	384
<hr/>					

> —

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1162 .
1163 . // Model with other covariates
1164 .
1165 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
              Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          202                      Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

                                Wald chi2(12) =  67.92
Log pseudolikelihood = -878.97676                      Prob > chi2   =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

```

> 789
  strongstart | .9237139 .1323069 -0.55 0.580 .6976165 1.223
> 089
  oilstart | .9946315 .0054682 -0.98 0.328 .9839715 1.005
> 407
  youthstartap | 1.017741 .0154229 1.16 0.246 .9879573 1.048
> 423
  muslimajstart | .937523 .1122901 -0.54 0.590 .741363 1.185
> 586

```

```

> —

```

1166 .

1167 . estimates store Model2A

1168 .

1169 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

Model Comparisons

```

> —
Repl. Model
>

```

```

> —
Islamist claim          0.592      0.631      0.667      0.694      0.
> 406      0.655
                      (0.088)** (0.087)** (0.091)** (0.094)** (0.
> 184)* (0.111)*
Territory              1.291      1.223      1.273      1.370      1.
> 202      1.143
                      (0.159)* (0.147)+ (0.153)* (0.170)* (0.
> 408) (0.151)
Strong rebels          0.874      0.861      0.858      0.867      1.
> 307      0.924
                      (0.111) (0.110) (0.109) (0.111) (0.
> 318) (0.132)
Oil                    0.996      0.994      0.995      0.994      0.
> 995      0.995
                      (0.005) (0.005) (0.005) (0.005) (0.
> 013) (0.005)
Youth bulge/adult pop. 1.018      1.012      1.014      1.022      1.
> 003      1.018
                      (0.012) (0.013) (0.012) (0.013)+ (0.

```

> 026)	(0.015)					
Muslim majority		1.098	0.997	1.005	1.011	0.
> 876	0.938					
		(0.121)	(0.114)	(0.115)	(0.115)	(0.
> 278)	(0.112)					
Had Change 1			0.520			
>	0.521					
			(0.075)**			
>	(0.079)**					
Had Change 1.5				0.472		
>						
				(0.104)**		
>						
Had Change 2					0.367	
>						
					(0.123)**	
>						
Change Frequency						0.
> 793						
						(0.
> 079)*						
Anocracy over time						
>	1.109					
>	(0.111)					
Government secondary support						
>	0.581					
>	(0.159)*					
Rebel support						
>	0.809					
>	(0.173)					
Government support						
>	0.817					
>	(0.150)					
Leftist						
>	0.553					
>	(0.097)**					
N		1,020	1,020	1,020	1,020	3
> 84	865					

> + p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1170 .
1171 . stcox numchanges anocracy secsup_govgov rebextpartdummy govnilsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      51                      Number of obs =    331
No. of failures =      51
Time at risk    = 365.5295

Wald chi2(12) =  57.11
Log pseudolikelihood = -111.29001              Prob > chi2   =  0.0000
```

(Std. err. adjusted for 51 clusters in dyad)

```
> id)
```

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> —							
> al]							
> —							
> numchanges		.828844	.1077316	-1.44	0.149	.6424439	1.069
> 327							
> anocracy		1.2289	.4438295	0.57	0.568	.6054758	2.49
> 423							
> secsup_govgov		.2164944	.1453008	-2.28	0.023	.0580979	.8067
> 384							
> rebextpartdummy		.6078894	.2712881	-1.12	0.265	.2534845	1.457
> 799							
> govnilsupport		.6228662	.3225067	-0.91	0.361	.2257672	1.718
> 417							
> islamist		.3738751	.2123228	-1.73	0.083	.1228376	1.137
> 946							
> leftist		.2121258	.1047429	-3.14	0.002	.0805915	.5583
> 382							

territory	1.348305	.6398647	0.63	0.529	.5319048	3.417
> 768						
strongstart	1.43013	.4641094	1.10	0.270	.7570793	2.701
> 529						
oilstart	.9928775	.0142035	-0.50	0.617	.9654259	1.02
> 111						
youthstartap	1.010688	.0280465	0.38	0.702	.9571863	1.067
> 181						
muslimajstart	.9686636	.3163346	-0.10	0.922	.5107374	1.837
> 165						
> —						

1172 .

1173 . estimates store Model2B

1174 .

1175 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —						
Repl. Model						
>						
> —						
Islamist claim		0.592	0.631	0.667	0.694	0.
> 406	0.655	0.374	(0.088)**	(0.087)**	(0.091)**	(0.094)**
> 184)*	(0.111)*	(0.212)+				
Territory		1.291	1.223	1.273	1.370	1.
> 202	1.143	1.348	(0.159)*	(0.147)+	(0.153)*	(0.170)*
> 408)	(0.151)	(0.640)				
Strong rebels		0.874	0.861	0.858	0.867	1.
> 307	0.924	1.430	(0.111)	(0.110)	(0.109)	(0.111)
> 318)	(0.132)	(0.464)				
Oil		0.996	0.994	0.995	0.994	0.
> 995	0.995	0.993	(0.005)	(0.005)	(0.005)	(0.005)
> 013)	(0.005)	(0.014)				
Youth bulge/adult pop.		1.018	1.012	1.014	1.022	1.
> 003	1.018	1.011				

			(0.012)	(0.013)	(0.012)	(0.013)+	(0.
> 026)	(0.015)	(0.028)					
Muslim majority			1.098	0.997	1.005	1.011	0.
> 876	0.938	0.969					
			(0.121)	(0.114)	(0.115)	(0.115)	(0.
> 278)	(0.112)	(0.316)					
Had Change 1				0.520			
>	0.521						
				(0.075)**			
>	(0.079)**						
Had Change 1.5					0.472		
>							
					(0.104)**		
>							
Had Change 2						0.367	
>							
						(0.123)**	
>							
Change Frequency							0.
> 793		0.829					
							(0.
> 079)*		(0.108)					
Anocracy over time							
>	1.109	1.229					
>	(0.111)	(0.444)					
Government secondary support							
>	0.581	0.216					
>	(0.159)*	(0.145)*					
Rebel support							
>	0.809	0.608					
>	(0.173)	(0.271)					
Government support							
>	0.817	0.623					
>	(0.150)	(0.323)					
Leftist							
>	0.553	0.212					
>	(0.097)**	(0.105)**					
N			1,020	1,020	1,020	1,020	3
> 84	865	331					
>							

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```
1176 .
1177 .
1178 . *****
1179 . ** Results Plots
1180 . *****
1181 .
1182 .
1183 . * d/l lean2 plot for bw graph *
1184 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

1185 . set scheme lean2

1186 .
1187 . ** Figure A[X] of Document **
1188 .
1189 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 5, T=90")

1190 . graph export thresh_5_90.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
    (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
    > hresh_5_90.pdf saved as PDF format

1191 .
    end of do-file

1192 . *saves: thresh_5_1.pdf
```

```

1193 . do 06dRobustnessTerminationComparision_5_1.do

1194 .
1195 . clear all

1196 .
1197 . *To run the do-file you need to install the following:
1198 . *1. To generate summary statistics:
1199 . ssc install unique, replace all
      checking unique consistency and verifying not already installed...
      all files already exist and are up to date.

1200 .
1201 . *2. To generate graphs:
1202 . ssc install blindchemes, replace all
      checking blindchemes consistency and verifying not already installed...
      all files already exist and are up to date.

1203 . set scheme plottig, permanently
      (set scheme preference recorded)

1204 .
1205 . *3. To generate tables:
1206 . ssc install outreg
      checking outreg consistency and verifying not already installed...
      all files already exist and are up to date.

1207 . ssc install outreg2
      checking outreg2 consistency and verifying not already installed...
      all files already exist and are up to date.

1208 .
1209 . * Latex code
1210 . ssc install estout, replace
      checking estout consistency and verifying not already installed...
      all files already exist and are up to date.

```

```

1211 .
1212 . * Coefplot
1213 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

1214 .
1215 . *****
      > *****
1216 .
1217 .
1218 . * load data:
1219 . * Threshold 1 article/year for all years (basically same):
1220 . use "./data/terminationplus_5_1.dta"

1221 .
1222 . sort dyadid year

1223 .
1224 . *****
1225 . * STSET FOR SURVIVAL ANALYSIS
1226 . *****
1227 .
1228 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
      > tart_of_segment) failure(term==1) exit(time .)

Survival-time data settings

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
      Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

1229 .
1230 .
1231 . *****
1232 . * DESCRIPTIVE STATISTICS
1233 . *****
1234 . *****
1235 . * CREATE LABELS
1236 . *****
1237 .
1238 . label variable term "Termination"

1239 . label variable islamist "Islamist claim"

1240 . label variable counter "Years From Change"

1241 . label variable delta1 "Change Year, Delta 1"

1242 . label variable delta1 "Change Year, Delta 1"

1243 . label variable delta1_L2 "Change in Prev 2 years"

1244 . label variable numchanges "Change Frequency"

```

1245 . label variable haddelta1 "Had Change |1|"
1246 . label variable haddelta15 "Had Change |1.5|"
1247 . label variable haddelta2 "Had Change |2|"
1248 . label variable territory "Territory"
1249 . label variable duration "Duration"
1250 . label variable intensitylevel "War"
1251 . label variable number_group "Number of groups"
1252 . label variable strongstart "Strong rebels"
1253 . label variable anostart "Anocracy"
1254 . label variable lngdppcstart "GDP per capita"
1255 . label variable lnpopstart "Population"
1256 . label variable muslimajstart "Muslim majority"
1257 . label variable oilstart "Oil"
1258 . label variable youthstartap "Youth bulge/adult pop."
1259 . label variable anocracy "Anocracy over time"
1260 . label variable lngdppc "GDP per capita over time"
1261 . label variable lnpop "Population over time"

```

1262 . label variable foreignfighter "Foreign fighters"
1263 . label variable govmilsupport "Government support"
1264 . label variable leftist "Leftist"
1265 . label variable nonislamistrel "Non-Islamist religious claims"
1266 . label variable muslimid "Muslim identity"
1267 . label variable secsup_govgov "Government secondary support"
1268 . label variable rebextpartdummy "Rebel support"
1269 .
1270 .
1271 .
1272 . *****
1273 . * Summary of new variables
1274 . *****
1275 .
1276 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	226	.1017699	.3030166	0	1
delta1_L2	226	.1681416	.3748221	0	1
numchanges	226	.6327434	.7902677	0	3
counter	226	.4911504	1.575482	0	11
haddelta1	1,229	.0895037	.2855856	0	1
haddelta15	1,229	.0488202	.2155796	0	1
haddelta2	1,229	.0423108	.2013793	0	1

```

1277 .
1278 .
1279 . *****
1280 . * CONTROL VARIABLES
1281 . *****
1282 .
1283 . global X1 territory strongstart oilstart youthstartap muslimajstart

1284 . global X2 _yrs _yrs_sq _yrs_cu

1285 .
1286 . *****
1287 . * TABLE 1
1288 . *****
1289 .
1290 . *Model 1- Replication*
1291 .
1292 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1127	Wald chi2(6) =	20.45
		Prob > chi2 =	0.0023

```

> )
                                     (Std. err. adjusted for 229 clusters in dyadid
> -

```

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
islamist	.5919864	.0879443	-3.53	0.000	.4424447 .792071
territory	1.291421	.1592884	2.07	0.038	1.014093 1.64459
strongstart	.8742423	.1109606	-1.06	0.290	.6817036 1.12116
oilstart	.9956987	.0049717	-0.86	0.388	.9860018 1.00549
youthstartap	1.018023	.012456	1.46	0.144	.9939002 1.04273
muslimajstart	1.097879	.1206258	0.85	0.395	.8851798 1.36168

```

> -

```

1293 .

1294 . estimates store RepModel

1295 .

1296 . estimates store RepModel

1297 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018

	(0.012)
Muslim majority	1.098
	(0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1298 .
1299 . //capture drop sch* sca*
1300 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
1301 . //stphtest, rank detail
1302 .
1303 . *Model 2.A- Binary for Change*
1304 .
1305 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

    Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_con
    Enter on or after: time start_of_segment
    Exit on or before: time .
    ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1122.4273	Wald chi2(7) =	26.74
		Prob > chi2 =	0.0004

$\geq)$

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
>]						
> -						
	haddelta1	.5832508	.1101015	-2.86	0.004	.4028768 .84438
> 1						
	islamist	.5994514	.0835792	-3.67	0.000	.4561149 .787832
> 3						
	territory	1.260568	.1560128	1.87	0.061	.9890504 1.60662
> 4						
	strongstart	.889648	.1109665	-0.94	0.349	.6967021 1.13602
> 9						
	oilstart	.9945449	.0049812	-1.09	0.275	.9848296 1.00435
> 6						
	youthstartap	1.011351	.0131856	0.87	0.387	.9858355 1.03752
> 8						
	muslimajstart	1.084375	.1171668	0.75	0.453	.8774195 1.34014
> 6						

```

1306 .
1307 . estimates store SmallChange

1308 .
1309 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
    > ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
    > ex frag ctitle(Binary Change)

```

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	(0.012)	(0.013)
Muslim majority	1.098	1.084
	(0.121)	(0.117)
Had Change 1		0.583
		(0.110)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1310 .
1311 . *Model 2.B- haddelta15*
1312 .
1313 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 22.88
Log pseudolikelihood = -1123.0764              Prob > chi2 = 0.0018
```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
	_t						
> -							
	haddelta15	.4888179	.1911113	-1.83	0.067	.2271726	1.05181
> 2	islamist	.6257848	.0858555	-3.42	0.001	.4782369	.818854
> 9	territory	1.295674	.1579387	2.13	0.034	1.020321	1.64533

```

> 6
  strongstart |   .8768003   .1085883   -1.06   0.288   .6878325   1.11768
> 3
  oilstart |   .9950611   .004983   -0.99   0.323   .9853423   1.00487
> 6
  youthstartap |  1.012421   .0127205   0.98   0.326   .9877932   1.03766
> 2
  muslimajstart |  1.08585   .1183826   0.76   0.450   .8769386   1.34452
> 9

```

```

> -

```

1314 .

1315 . estimates store MedChange

1316 .

1317 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

Repl. Model			
Islamist claim	0.592 (0.088)**	0.599 (0.084)**	0.626 (0.086)**
Territory	1.291 (0.159)*	1.261 (0.156)+	1.296 (0.158)*
Strong rebels	0.874 (0.111)	0.890 (0.111)	0.877 (0.109)
Oil	0.996 (0.005)	0.995 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.011 (0.013)	1.012 (0.013)
Muslim majority	1.098 (0.121)	1.084 (0.117)	1.086 (0.118)
Had Change 1		0.583 (0.110)**	
Had Change 1.5			0.489 (0.191)+
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1318 .
1319 . *Model 2.C- haddelta2*
1320 .
1321 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 22.59
Log pseudolikelihood = -1121.4943                Prob > chi2 = 0.0020

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.2194394	.1707574	-1.95	0.051	.0477474	1.00850
> 8							
	islamist	.6576166	.0891017	-3.09	0.002	.5042453	.857637
> 4							
	territory	1.32886	.1617179	2.34	0.019	1.046865	1.68681
> 5							
	strongstart	.8963479	.1118081	-0.88	0.380	.70194	1.14459
> 9							
	oilstart	.9955659	.0049431	-0.90	0.371	.9859246	1.00530
> 2							
	youthstartap	1.01617	.0120051	1.36	0.175	.9929103	1.03997
> 4							
	muslimajstart	1.083826	.1173019	0.74	0.457	.8766667	1.33993
> 8							

```
> -
```

```

1322 .
1323 . estimates store HighChange

1324 .
1325 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.599 (0.084)**	0.626 (0.086)**	0.658 (0.089)**
Territory	1.291 (0.159)*	1.261 (0.156)+	1.296 (0.158)*	1.329 (0.162)*
Strong rebels	0.874 (0.111)	0.890 (0.111)	0.877 (0.109)	0.896 (0.112)
Oil	0.996 (0.005)	0.995 (0.005)	0.995 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.011 (0.013)	1.012 (0.013)	1.016 (0.012)
Muslim majority	1.098 (0.121)	1.084 (0.117)	1.086 (0.118)	1.084 (0.117)
Had Change 1		0.583 (0.110)**		
Had Change 1.5			0.489 (0.191)+	
Had Change 2				0.219 (0.171)+
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1326 .
1327 . //Model 4: Number of changes
1328 .
1329 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      42                      Number of obs =    192
No. of failures =      41
Time at risk    = 207.5796

Wald chi2(7) = 19.76
Prob > chi2   = 0.0061
Log pseudolikelihood = -97.986476

```

(Std. err. adjusted for 42 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.6541146	.1219087	-2.28	0.023	.453956	.942527
> 5							
	islamist	.1974943	.1764166	-1.82	0.069	.0342924	1.13739
> 4							
	territory	.661034	.3636767	-0.75	0.452	.224866	1.94322
> 8							
	strongstart	1.280449	.4041353	0.78	0.433	.6897731	2.37694
> 2							
	oilstart	1.006843	.015192	0.45	0.651	.9775034	1.03706
> 4							
	youthstartap	.9382329	.0343532	-1.74	0.082	.8732611	1.00803
> 9							
	muslimajstart	1.015739	.3318352	0.05	0.962	.5354273	1.92692
> 2							

```
> -
```

1330 . estimates store NumChanges

1331 .

1332 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —

Repl. Model

> —

Islamist claim	0.592 (0.088)**	0.599 (0.084)**	0.626 (0.086)**	0.658 (0.089)**	0.197 (0.176)+
Territory	1.291 (0.159)*	1.261 (0.156)+	1.296 (0.158)*	1.329 (0.162)*	0.661 (0.364)
Strong rebels	0.874 (0.111)	0.890 (0.111)	0.877 (0.109)	0.896 (0.112)	1.280 (0.404)
Oil	0.996 (0.005)	0.995 (0.005)	0.995 (0.005)	0.996 (0.005)	1.007 (0.015)
Youth bulge/adult pop.	1.018 (0.012)	1.011 (0.013)	1.012 (0.013)	1.016 (0.012)	0.938 (0.034)+
Muslim majority	1.098 (0.121)	1.084 (0.117)	1.086 (0.118)	1.084 (0.117)	1.016 (0.332)
Had Change 1		0.583 (0.110)**			
Had Change 1.5			0.489 (0.191)+		
Had Change 2				0.219 (0.171)+	
Change Frequency					0.654 (0.122)*
N	1,020	1,020	1,020	1,020	192

> —

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.


```

1333 .
1334 . // Model with other covariates
1335 .
1336 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
              Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          202                      Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Wald chi2(12) =  51.43
Log pseudolikelihood = -882.00555                    Prob > chi2    =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> —	_t						
> all]							
> —							
	haddelta1	.6044261	.1171869	-2.60	0.009	.4133436	.8838
> 433							
	anocracy	1.085415	.1143122	0.78	0.436	.882979	1.334
> 263							
	secsup_govgov	.6257984	.1684915	-1.74	0.082	.3691942	1.060
> 752							
	rebextpartdummy	.7566659	.1507893	-1.40	0.162	.5120068	1.118
> 234							
	govmlsupport	.8186734	.155964	-1.05	0.294	.5635725	1.189
> 246							
	islamist	.6120501	.1096848	-2.74	0.006	.4307687	.8696
> 208							
	leftist	.5308029	.0929921	-3.62	0.000	.3765391	.7482
> 668							
	territory	1.164939	.1557473	1.14	0.253	.8963989	1.513

```

> 928
  strongstart | .9584353 .1365861 -0.30 0.766 .7248674 1.267
> 264
  oilstart | .9951706 .0054976 -0.88 0.381 .9844535 1.006
> 004
  youthstartap | 1.014951 .015083 1.00 0.318 .9858147 1.044
> 948
  muslimajstart | 1.007176 .1176421 0.06 0.951 .8010907 1.266
> 278

```

```

> —

```

1337 .

1338 . estimates store Model2A

1339 .

1340 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

Model Comparisons

```

> —
Repl. Model
>

```

```

> —
Islamist claim          0.592      0.599      0.626      0.658      0.
> 197      0.612
                        (0.088)** (0.084)** (0.086)** (0.089)** (0.
> 176)+ (0.110)**
Territory              1.291      1.261      1.296      1.329      0.
> 661      1.165
                        (0.159)* (0.156)+ (0.158)* (0.162)* (0.
> 364) (0.156)
Strong rebels          0.874      0.890      0.877      0.896      1.
> 280      0.958
                        (0.111) (0.111) (0.109) (0.112) (0.
> 404) (0.137)
Oil                    0.996      0.995      0.995      0.996      1.
> 007      0.995
                        (0.005) (0.005) (0.005) (0.005) (0.
> 015) (0.005)
Youth bulge/adult pop. 1.018      1.011      1.012      1.016      0.
> 938      1.015
                        (0.012) (0.013) (0.013) (0.012) (0.

```

> 034)+	(0.015)					
Muslim majority		1.098	1.084	1.086	1.084	1.
> 016	1.007					
		(0.121)	(0.117)	(0.118)	(0.117)	(0.
> 332)	(0.118)					
Had Change 1			0.583			
>	0.604					
			(0.110)**			
>	(0.117)**					
Had Change 1.5				0.489		
>						
				(0.191)+		
>						
Had Change 2					0.219	
>						
					(0.171)+	
>						
Change Frequency						0.
> 654						
						(0.
> 122)*						
Anocracy over time						
>	1.085					
>	(0.114)					
Government secondary support						
>	0.626					
>	(0.168)+					
Rebel support						
>	0.757					
>	(0.151)					
Government support						
>	0.819					
>	(0.156)					
Leftist						
>	0.531					
>	(0.093)**					
N		1,020	1,020	1,020	1,020	1
> 92	865					

> + p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1341 .
1342 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      39                      Number of obs =    161
No. of failures =      36
Time at risk    = 176.6396

Wald chi2(12) =  52.12
Log pseudolikelihood = -78.571123              Prob > chi2   =  0.0000
```

(Std. err. adjusted for 39 clusters in **dyad**)

```
> id)
```

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> —							
> al]							
> —							
numchanges		.5250304	.1710521	-1.98	0.048	.2772474	.9942
> 634							
anocracy		1.09894	.5536013	0.19	0.851	.4094243	2.949
> 679							
secsup_govgov		.2288818	.1222409	-2.76	0.006	.080353	.6519
> 586							
rebextpartdummy		.2736767	.1846461	-1.92	0.055	.0729363	1.02
> 691							
govmlsupport		.972327	.4069426	-0.07	0.947	.4281182	2.208
> 315							
islamist		.3879771	.4230312	-0.87	0.385	.0457823	3.287
> 869							
leftist		.5574471	.4072003	-0.80	0.424	.1331753	2.333
> 371							

territory	1.519417	.9777174	0.65	0.516	.430471	5.363
> 025						
strongstart	1.449281	.6668809	0.81	0.420	.5881328	3.571
> 327						
oilstart	1.020575	.0195901	1.06	0.289	.9828926	1.059
> 703						
youthstartap	.970789	.0368257	-0.78	0.434	.9012298	1.045
> 717						
muslimajstart	1.417451	.5031511	0.98	0.326	.7069001	2.842
> 224						

> —

1343 .

1344 . estimates store Model2B

1345 .

1346 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —————						
Repl. Model						
> —————						
Islamist claim			0.592	0.599	0.626	0.658
> 197	0.612	0.388				
			(0.088)**	(0.084)**	(0.086)**	(0.089)**
> 176)+	(0.110)**	(0.423)				
Territory			1.291	1.261	1.296	1.329
> 661	1.165	1.519				
			(0.159)*	(0.156)+	(0.158)*	(0.162)*
> 364)	(0.156)	(0.978)				
Strong rebels			0.874	0.890	0.877	0.896
> 280	0.958	1.449				
			(0.111)	(0.111)	(0.109)	(0.112)
> 404)	(0.137)	(0.667)				
Oil			0.996	0.995	0.995	0.996
> 007	0.995	1.021				
			(0.005)	(0.005)	(0.005)	(0.005)
> 015)	(0.005)	(0.020)				
Youth bulge/adult pop.			1.018	1.011	1.012	1.016
> 938	1.015	0.971				

			(0.012)	(0.013)	(0.013)	(0.012)	(0.
> 034)+	(0.015)	(0.037)					
Muslim majority			1.098	1.084	1.086	1.084	1.
> 016	1.007	1.417					
			(0.121)	(0.117)	(0.118)	(0.117)	(0.
> 332)	(0.118)	(0.503)					
Had Change 1				0.583			
>	0.604						
				(0.110)**			
>	(0.117)**						
Had Change 1.5					0.489		
>							
					(0.191)+		
>							
Had Change 2						0.219	
>							
						(0.171)+	
>							
Change Frequency							0.
> 654		0.525					
							(0.
> 122)*		(0.171)*					
Anocracy over time							
>	1.085	1.099					
>	(0.114)	(0.554)					
Government secondary support							
>	0.626	0.229					
>	(0.168)+	(0.122)**					
Rebel support							
>	0.757	0.274					
>	(0.151)	(0.185)+					
Government support							
>	0.819	0.972					
>	(0.156)	(0.407)					
Leftist							
>	0.531	0.557					
>	(0.093)**	(0.407)					
N			1,020	1,020	1,020	1,020	1
> 92	865	161					
>							

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```
1347 .
1348 .
1349 . *****
1350 . ** Results Plots
1351 . *****
1352 .
1353 .
1354 . * d/l lean2 plot for bw graph *
1355 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

1356 . set scheme lean2

1357 .
1358 . ** Appendix Threshold Comparison **
1359 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 5, T=100")

1360 . graph export thresh_5_1.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
        > hresh_5_1.pdf saved as PDF format

1361 .
    end of do-file

1362 .
1363 . ** Threshold: 10 words for.75, .90, 1 percent of years
```

```
1364 .
1365 . *saves: thresh_10_75.pdf
1366 . do 06dRobustnessTerminationComparision_10_75.do

1367 .
1368 . clear all

1369 .
1370 . *To run the do-file you need to install the following:
1371 . *1. To generate summary statistics:
1372 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

1373 .
1374 . *2. To generate graphs:
1375 . ssc install blindchemes, replace all
    checking blindchemes consistency and verifying not already installed...
    all files already exist and are up to date.

1376 . set scheme plottig, permanently
    (set scheme preference recorded)

1377 .
1378 . *3. To generate tables:
1379 . ssc install outreg
    checking outreg consistency and verifying not already installed...
    all files already exist and are up to date.

1380 . ssc install outreg2
    checking outreg2 consistency and verifying not already installed...
    all files already exist and are up to date.

1381 .
```



```

1382 . * Latex code
1383 . ssc install estout, replace
      checking estout consistency and verifying not already installed...
      all files already exist and are up to date.

1384 .
1385 . * Coefplot
1386 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

1387 .
1388 . *****
      > *****
1389 .
1390 . * load data:
1391 . * Threshold 1 article/year for all years (basically same):
1392 . use "./data/terminationplus_10_75.dta"

1393 .
1394 . sort dyadid year

1395 .
1396 . *****
1397 . * STSET FOR SURVIVAL ANALYSIS
1398 . *****
1399 .
1400 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
      > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
      Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

1401 .
1402 .
1403 . *****
1404 . * DESCRIPTIVE STATISTICS
1405 . *****
1406 . *****
1407 . * CREATE LABELS
1408 . *****
1409 .
1410 . label variable term "Termination"

1411 . label variable islamist "Islamist claim"

1412 . label variable counter "Years From Change"

1413 . label variable delta1 "Change Year, Delta 1"

1414 . label variable delta1 "Change Year, Delta 1"

1415 . label variable delta1_L2 "Change in Prev 2 years"

1416 . label variable numchanges "Change Frequency"

```

1417 . label variable haddelta1 "Had Change |1|"
1418 . label variable haddelta15 "Had Change |1.5|"
1419 . label variable haddelta2 "Had Change |2|"
1420 . label variable territory "Territory"
1421 . label variable duration "Duration"
1422 . label variable intensitylevel "War"
1423 . label variable number_group "Number of groups"
1424 . label variable strongstart "Strong rebels"
1425 . label variable anostart "Anocracy"
1426 . label variable lngdppcstart "GDP per capita"
1427 . label variable lnpopstart "Population"
1428 . label variable muslimajstart "Muslim majority"
1429 . label variable oilstart "Oil"
1430 . label variable youthstartap "Youth bulge/adult pop."
1431 . label variable anocracy "Anocracy over time"
1432 . label variable lngdppc "GDP per capita over time"
1433 . label variable lnpop "Population over time"

```

1434 . label variable foreignfighter "Foreign fighters"
1435 . label variable govmilsupport "Government support"
1436 . label variable leftist "Leftist"
1437 . label variable nonislamistrel "Non-Islamist religious claims"
1438 . label variable muslimid "Muslim identity"
1439 . label variable secsup_govgov "Government secondary support"
1440 . label variable rebextpartdummy "Rebel support"
1441 .
1442 .
1443 .
1444 . *****
1445 . * Summary of new variables
1446 . *****
1447 .
1448 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	607	.1252059	.3312252	0	1
delta1_L2	607	.2174629	.4128603	0	1
numchanges	603	1.082919	1.254794	0	5
counter	607	.6177924	1.678503	0	12
haddelta1	1,229	.2717657	.4450508	0	1
haddelta15	1,229	.2131814	.4097215	0	1
haddelta2	1,229	.1716843	.3772593	0	1

```

1449 .
1450 .
1451 . *****
1452 . * CONTROL VARIABLES
1453 . *****
1454 .
1455 . global X1 territory strongstart oilstart youthstartap muslimajstart

1456 . global X2 _yrs _yrs_sq _yrs_cu

1457 .
1458 . *****
1459 . * TABLE 1
1460 . *****
1461 .
1462 . *Model 1- Replication*
1463 .
1464 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1127	Wald chi2(6) =	20.45
		Prob > chi2 =	0.0023

```

> )
                                     (Std. err. adjusted for 229 clusters in dyadid
> -

```

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
islamist	.5919864	.0879443	-3.53	0.000	.4424447 .792071
territory	1.291421	.1592884	2.07	0.038	1.014093 1.64459
strongstart	.8742423	.1109606	-1.06	0.290	.6817036 1.12116
oilstart	.9956987	.0049717	-0.86	0.388	.9860018 1.00549
youthstartap	1.018023	.012456	1.46	0.144	.9939002 1.04273
muslimajstart	1.097879	.1206258	0.85	0.395	.8851798 1.36168

```

> -

```

1465 .

1466 . estimates store RepModel

1467 .

1468 . estimates store RepModel

1469 . outreg using termination=t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018

	(0.012)
Muslim majority	1.098
	(0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1470 .
1471 . //capture drop sch* sca*
1472 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
1473 . //stphtest, rank detail
1474 .
1475 . *Model 2.A- Binary for Change*
1476 .
1477 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

    Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_con
    Enter on or after: time start_of_segment
    Exit on or before: time .
    ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1121.6856	Wald chi2(7) =	24.36
		Prob > chi2 =	0.0010

```

                                (Std. err. adjusted for 229 clusters in dyadid
> )
> -
      _t | Haz. ratio   Robust      z   P>|z|   [95% conf. interval
> ]
      ---|-----
> -
    haddelta1 | .6783079   .084228   -3.13   0.002   .5317776   .865214
> 3
    islamist | .6052249   .0890735   -3.41   0.001   .4535674   .807591
> 4
    territory | 1.275222   .1516124    2.04   0.041   1.01015   1.60985
> 2
    strongstart | .8452742   .1058302   -1.34   0.179   .6613407   1.08036
> 4
    oilstart | .9943167   .0050927   -1.11   0.266   .9843851   1.00434
> 8
    youthstartap | 1.013931   .0121095    1.16   0.247   .9904726   1.03794
> 5
    muslimajstart | 1.062152   .1201069    0.53   0.594   .8510081   1.32568
> 2
> -

```

```

1478 .
1479 . estimates store SmallChange

1480 .
1481 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

```

Repl. Model		
Islamist claim	0.592 (0.088)**	0.605 (0.089)**
Territory	1.291 (0.159)*	1.275 (0.152)*
Strong rebels	0.874 (0.111)	0.845 (0.106)
Oil	0.996 (0.005)	0.994 (0.005)
Youth bulge/adult pop.	1.018	1.014

	(0.012)	(0.012)
Muslim majority	1.098	1.062
	(0.121)	(0.120)
Had Change 1		0.678
		(0.084)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1482 .
1483 . *Model 2.B- haddelta15*
1484 .
1485 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Log pseudolikelihood = -1123.448                Wald chi2(7) =  21.83
                                                Prob > chi2  =  0.0027
```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
	_t						
> -							
	haddelta15	.7326937	.1111539	-2.05	0.040	.5442397	.986403
> 8	islamist	.6189819	.0873321	-3.40	0.001	.4694421	.816157
> 2	territory	1.31744	.1591621	2.28	0.022	1.03967	1.66942

```

> 1
  strongstart | .8667551 .1097552 -1.13 0.259 .6762553 1.11091
> 8
  oilstart | .9956059 .0050866 -0.86 0.389 .9856862 1.00562
> 5
  youthstartap | 1.016907 .0118196 1.44 0.149 .9940032 1.04033
> 9
  muslimajstart | 1.069813 .1197367 0.60 0.547 .8590898 1.33222
> 3

```

```

> -

```

1486 .

1487 . estimates store MedChange

1488 .

1489 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

Repl. Model			
Islamist claim	0.592 (0.088)**	0.605 (0.089)**	0.619 (0.087)**
Territory	1.291 (0.159)*	1.275 (0.152)*	1.317 (0.159)*
Strong rebels	0.874 (0.111)	0.845 (0.106)	0.867 (0.110)
Oil	0.996 (0.005)	0.994 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.014 (0.012)	1.017 (0.012)
Muslim majority	1.098 (0.121)	1.062 (0.120)	1.070 (0.120)
Had Change 1		0.678 (0.084)**	
Had Change 1.5			0.733 (0.111)*
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1490 .
1491 . *Model 2.C- haddelta2*
1492 .
1493 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 23.31
Prob > chi2   = 0.0015
Log pseudolikelihood = -1122.8861

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.6534886	.1231386	-2.26	0.024	.4516935	.94543
> 6							
	islamist	.6306016	.0889696	-3.27	0.001	.4782574	.831473
> 7							
	territory	1.369838	.1669098	2.58	0.010	1.078831	1.73934
> 2							
	strongstart	.8850506	.1124608	-0.96	0.337	.6899354	1.13534
> 5							
	oilstart	.9958777	.0050816	-0.81	0.418	.9859676	1.00588
> 7							
	youthstartap	1.021906	.0122176	1.81	0.070	.9982385	1.04613
> 5							
	muslimajstart	1.058321	.119576	0.50	0.616	.8480918	1.32066
> 2							

```
> -
```

```

1494 .
1495 . estimates store HighChange

1496 .
1497 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.605 (0.089)**	0.619 (0.087)**	0.631 (0.089)**
Territory	1.291 (0.159)*	1.275 (0.152)*	1.317 (0.159)*	1.370 (0.167)**
Strong rebels	0.874 (0.111)	0.845 (0.106)	0.867 (0.110)	0.885 (0.112)
Oil	0.996 (0.005)	0.994 (0.005)	0.996 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.014 (0.012)	1.017 (0.012)	1.022 (0.012)+
Muslim majority	1.098 (0.121)	1.062 (0.120)	1.070 (0.120)	1.058 (0.120)
Had Change 1		0.678 (0.084)**		
Had Change 1.5			0.733 (0.111)*	
Had Change 2				0.653 (0.123)*
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1498 .
1499 . //Model 4: Number of changes
1500 .
1501 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      97                      Number of obs =    504
No. of failures =     128
Time at risk    = 615.0291

Wald chi2(7) = 18.79
Prob > chi2   = 0.0089

Log pseudolikelihood = -361.3138

```

(Std. err. adjusted for 97 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.7891507	.0678336	-2.75	0.006	.6667954	.93395
> 8							
	islamist	.6205849	.1704979	-1.74	0.082	.3621966	1.06330
> 6							
	territory	1.336913	.2636267	1.47	0.141	.9083522	1.96766
> 9							
	strongstart	.9296498	.2146859	-0.32	0.752	.5912207	1.46180
> 4							
	oilstart	.9940866	.0085346	-0.69	0.490	.9774992	1.01095
> 6							
	youthstartap	1.023835	.0196095	1.23	0.219	.9861133	1.06299
> 9							
	muslimajstart	.851335	.1488101	-0.92	0.357	.6043851	1.19918
> 8							

```
> -
```

1502 . estimates store NumChanges

1503 .

1504 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

<hr/>					
> —					
Repl. Model					
>					
<hr/>					
> —					
Islamist claim	0.592	0.605	0.619	0.631	0.621
>	(0.088)**	(0.089)**	(0.087)**	(0.089)**	(0.170)+
>					
Territory	1.291	1.275	1.317	1.370	1.337
>	(0.159)*	(0.152)*	(0.159)*	(0.167)**	(0.264)
>					
Strong rebels	0.874	0.845	0.867	0.885	0.930
>	(0.111)	(0.106)	(0.110)	(0.112)	(0.215)
>					
Oil	0.996	0.994	0.996	0.996	0.994
>	(0.005)	(0.005)	(0.005)	(0.005)	(0.009)
>					
Youth bulge/adult pop.	1.018	1.014	1.017	1.022	1.024
>	(0.012)	(0.012)	(0.012)	(0.012)+	(0.020)
>					
Muslim majority	1.098	1.062	1.070	1.058	0.851
>	(0.121)	(0.120)	(0.120)	(0.120)	(0.149)
>					
Had Change 1		0.678			
>		(0.084)**			
>					
Had Change 1.5			0.733		
>			(0.111)*		

```

>
Had Change |2|                                0.653
>
                                                (0.123)*
>
Change Frequency                                0.789
>
                                                (0.068)**
>
N                1,020        1,020        1,020        1,020        504
>

```

```

> —
                + p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

```

1505 .
1506 . // Model with other covariates
1507 .
1508 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

Failure _d: term==1
Analysis time _t: (end_of_segment-origin)
Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =          202                Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Log pseudolikelihood = -880.51118                Wald chi2(12) =  52.31
                                                Prob > chi2    =  0.0000

```

```
> id)
```

```

      _t | Haz. ratio   std. err.      z    P>|z|    [95% conf. interv
> al]
```

> 687	haddelta1	.6485628	.0934377	-3.01	0.003	.489013	.8601
> 554	anocracy	1.057915	.1068712	0.56	0.577	.8678843	1.289
> 871	secsup_govgov	.589059	.1585122	-1.97	0.049	.3476207	.9981
> 372	rebextpartdummy	.7864591	.1700061	-1.11	0.266	.5148431	1.201
> 191	govmilsupport	.7882812	.1498559	-1.25	0.211	.54308	1.144
> 859	islamist	.6258137	.1109676	-2.64	0.008	.4420917	.8858
> 212	leftist	.5479283	.0959213	-3.44	0.001	.3887863	.772
> 466	territory	1.205883	.1526537	1.48	0.139	.9409163	1.545
> 426	strongstart	.9265466	.1337081	-0.53	0.597	.698284	1.229
> 392	oilstart	.993246	.005655	-1.19	0.234	.9822239	1.004
> 975	youthstartap	1.018476	.0148368	1.26	0.209	.9898077	1.047
> 371	muslimajstart	.9852352	.1177822	-0.12	0.901	.7794371	1.245

$$\geq -$$


```

1509 .
1510 . estimates store Model2A

1511 .
1512 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

```

Model Comparisons					
Repl. Model					
Islamist claim	0.592	0.605	0.619	0.631	0
> .621 0.626	(0.088)**	(0.089)**	(0.087)**	(0.089)**	(0.
> 170)+ (0.111)**					
Territory	1.291	1.275	1.317	1.370	1
> .337 1.206	(0.159)*	(0.152)*	(0.159)*	(0.167)**	(0
> .264) (0.153)					
Strong rebels	0.874	0.845	0.867	0.885	0
> .930 0.927	(0.111)	(0.106)	(0.110)	(0.112)	(0
> .215) (0.134)					
Oil	0.996	0.994	0.996	0.996	0
> .994 0.993	(0.005)	(0.005)	(0.005)	(0.005)	(0
> .009) (0.006)					
Youth bulge/adult pop.	1.018	1.014	1.017	1.022	1
> .024 1.018	(0.012)	(0.012)	(0.012)	(0.012)+	(0
> .020) (0.015)					
Muslim majority	1.098	1.062	1.070	1.058	0
> .851 0.985	(0.121)	(0.120)	(0.120)	(0.120)	(0
> .149) (0.118)					
Had Change 1		0.678			
> 0.649		(0.084)**			
> (0.093)**					
Had Change 1.5			0.733		
>			(0.111)*		

>					
Had Change 2					0.653
>					
					(0.123)*
>					
Change Frequency					0
> .789					
					(0.
> 068)**					
Anocracy over time					
> 1.058					
> (0.107)					
Government secondary support					
> 0.589					
> (0.159)*					
Rebel support					
> 0.786					
> (0.170)					
Government support					
> 0.788					
> (0.150)					
Leftist					
> 0.548					
> (0.096)**					
N		1,020	1,020	1,020	1,020
> 504	865				

> + p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1513 .
1514 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      88                      Number of obs =    433
No. of failures =     106
Time at risk    = 533.1792

Wald chi2(12) =  41.76
Log pseudolikelihood = -278.94211              Prob > chi2    = 0.0000

```

(Std. err. adjusted for 88 clusters in dyad)

```
> id)
```

> —							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> —							
	numchanges	.6628979	.0810344	−3.36	0.001	.5216672	.842
> 364							
	anocracy	.9337672	.1815993	−0.35	0.725	.6378179	1.367
> 038							
	secsup_govgov	.3333422	.1562444	−2.34	0.019	.1330193	.8353
> 454							
	rebextpartdummy	.610184	.2057318	−1.47	0.143	.3151133	1.181
> 558							
	govmlsupport	.6992317	.199422	−1.25	0.210	.3998132	1.222
> 884							
	islamist	.8681184	.263903	−0.47	0.642	.4784302	1.575
> 213							
	leftist	.4067465	.100497	−3.64	0.000	.2506184	.660
> 138							
	territory	1.491315	.3492074	1.71	0.088	.9424351	2.359
> 866							
	strongstart	1.028388	.2324456	0.12	0.901	.6603297	1.601

```

> 597
      oilstart |      .9904479      .0095298      -1.00      0.319      .9719449      1.009
> 303
      youthstartap |      1.032551      .0256301      1.29      0.197      .9835196      1.084
> 027
      muslimajstart |      .8555308      .1731572      -0.77      0.441      .5753799      1.272
> 087

```

```

> —

```

1515 .

1516 . estimates store Model2B

1517 .

1518 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

```

> —————
Repl. Model
>

```

```

> —————
Islamist claim      0.592      0.605      0.619      0.631      0
> .621      0.626      0.868
      (0.088)** (0.089)** (0.087)** (0.089)** (0.
> 170)+ (0.111)** (0.264)
Territory      1.291      1.275      1.317      1.370      1
> .337      1.206      1.491
      (0.159)* (0.152)* (0.159)* (0.167)** (0
> .264) (0.153) (0.349)+
Strong rebels      0.874      0.845      0.867      0.885      0
> .930      0.927      1.028
      (0.111) (0.106) (0.110) (0.112) (0
> .215) (0.134) (0.232)
Oil      0.996      0.994      0.996      0.996      0
> .994      0.993      0.990
      (0.005) (0.005) (0.005) (0.005) (0
> .009) (0.006) (0.010)
Youth bulge/adult pop.      1.018      1.014      1.017      1.022      1
> .024      1.018      1.033
      (0.012) (0.012) (0.012) (0.012)+ (0
> .020) (0.015) (0.026)
Muslim majority      1.098      1.062      1.070      1.058      0

```

> .851	0.985	0.856					
			(0.121)	(0.120)	(0.120)	(0.120)	(0
> .149)	(0.118)	(0.173)					
Had Change 1				0.678			
>	0.649						
				(0.084)**			
>	(0.093)**						
Had Change 1.5					0.733		
>							
					(0.111)*		
>							
Had Change 2						0.653	
>							
						(0.123)*	
>							
Change Frequency							0
> .789		0.663					
							(0.
> 068)**		(0.081)**					
Anocracy over time							
>	1.058	0.934					
>	(0.107)	(0.182)					
Government secondary support							
>	0.589	0.333					
>	(0.159)*	(0.156)*					
Rebel support							
>	0.786	0.610					
>	(0.170)	(0.206)					
Government support							
>	0.788	0.699					
>	(0.150)	(0.199)					
Leftist							
>	0.548	0.407					
>	(0.096)**	(0.100)**					
N			1,020	1,020	1,020	1,020	
> 504	865	433					

> _____

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1519 .
1520 .
1521 . *****
1522 . ** Results Plots
1523 . *****
1524 .
1525 .
1526 . * d/l lean2 plot for bw graph *
1527 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

1528 . set scheme lean2

1529 .
1530 . ** Figure A[X] of Document **
1531 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 10, T= 75")

1532 . graph export thresh_10_75.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
        > hresh_10_75.pdf saved as PDF format

1533 .
    end of do-file

1534 . * saves: thresh_10_90.pdf
1535 . do 06dRobustnessTerminationComparision_10_90.do

1536 . clear all

```

```
1537 .
1538 . *To run the do-file you need to install the following:
1539 . *1. To generate summary statistics:
1540 . ssc install unique, replace all
      checking unique consistency and verifying not already installed...
      all files already exist and are up to date.

1541 .
1542 . *2. To generate graphs:
1543 . ssc install blindchemes, replace all
      checking blindchemes consistency and verifying not already installed...
      all files already exist and are up to date.

1544 . set scheme plottig, permanently
      (set scheme preference recorded)

1545 .
1546 . *3. To generate tables:
1547 . ssc install outreg
      checking outreg consistency and verifying not already installed...
      all files already exist and are up to date.

1548 . ssc install outreg2
      checking outreg2 consistency and verifying not already installed...
      all files already exist and are up to date.

1549 .
1550 . * Latex code
1551 . ssc install estout, replace
      checking estout consistency and verifying not already installed...
      all files already exist and are up to date.

1552 .
1553 . * Coefplot
```

```

1554 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

1555 .
1556 . *****
      > *****
1557 .
1558 . * load data:
1559 . * Threshold 1 article/year for all years (basically same):
1560 . use "./data/terminationplus_10_90.dta"

1561 .
1562 . sort dyadid year

1563 .
1564 . *****
1565 . * STSET FOR SURVIVAL ANALYSIS
1566 . *****
1567 .
1568 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
      > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
      Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999


```

1569 .
1570 .
1571 . *****
1572 . * DESCRIPTIVE STATISTICS
1573 . *****
1574 . *****
1575 . * CREATE LABELS
1576 . *****
1577 .
1578 . label variable term "Termination"

1579 . label variable islamist "Islamist claim"

1580 . label variable counter "Years From Change"

1581 . label variable delta1 "Change Year, Delta 1"

1582 . label variable delta1 "Change Year, Delta 1"

1583 . label variable delta1_L2 "Change in Prev 2 years"

1584 . label variable numchanges "Change Frequency"

1585 . label variable haddelta1 "Had Change |1|"

1586 . label variable haddelta15 "Had Change |1.5|"

1587 . label variable haddelta2 "Had Change |2|"

1588 . label variable territory "Territory"

1589 . label variable duration "Duration"

1590 . label variable intensitylevel "War"

```

1591 . label variable number_group "Number of groups"
1592 . label variable strongstart "Strong rebels"
1593 . label variable anostart "Anocracy"
1594 . label variable lngdppcstart "GDP per capita"
1595 . label variable lnpopstart "Population"
1596 . label variable muslimajstart "Muslim majority"
1597 . label variable oilstart "Oil"
1598 . label variable youthstartap "Youth bulge/adult pop."
1599 . label variable anocracy "Anocracy over time"
1600 . label variable lngdppc "GDP per capita over time"
1601 . label variable lnpop "Population over time"
1602 . label variable foreignfighter "Foreign fighters"
1603 . label variable govmlsupport "Government support"
1604 . label variable leftist "Leftist"
1605 . label variable nonislamistrel "Non-Islamist religious claims"
1606 . label variable muslimid "Muslim identity"
1607 . label variable secsup_govgov "Government secondary support"

```

1608 . label variable rebextpartdummy "Rebel support"

1609 .
1610 .
1611 .
1612 . *****
1613 . * Summary of new variables
1614 . *****
1615 .
1616 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	326	.1104294	.3139061	0	1
delta1_L2	326	.190184	.3930496	0	1
numchanges	322	.9347826	1.229987	0	4
counter	326	.5705521	1.537107	0	11
haddelta1	1,229	.1293735	.3357495	0	1
haddelta15	1,229	.0992677	.2991428	0	1
haddelta2	1,229	.0740439	.261949	0	1

```

1617 .
1618 .
1619 . *****
1620 . * CONTROL VARIABLES
1621 . *****
1622 .
1623 . global X1 territory strongstart oilstart youthstartap muslimajstart

1624 . global X2 _yrs _yrs_sq _yrs_cu

1625 .
1626 . *****

```

```

1627 . * TABLE 1
1628 . *****
1629 .
1630 . *Model 1- Replication*
1631 .
1632 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(6) = 20.45
Log pseudolikelihood = -1125.1127              Prob > chi2 = 0.0023

```

(Std. err. adjusted for 229 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	islamist	.5919864	.0879443	-3.53	0.000	.4424447	.792071
> 8	territory	1.291421	.1592884	2.07	0.038	1.014093	1.64459
> 2	strongstart	.8742423	.1109606	-1.06	0.290	.6817036	1.12116
> 1	oilstart	.9956987	.0049717	-0.86	0.388	.9860018	1.00549
> 1	youthstartap	1.018023	.012456	1.46	0.144	.9939002	1.04273
> 2	muslimajstart	1.097879	.1206258	0.85	0.395	.8851798	1.36168
> 7							

> -

```

1633 .
1634 . estimates store RepModel

1635 .
1636 . estimates store RepModel

1637 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)
Muslim majority	1.098 (0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1638 .
1639 . //capture drop sch* sca*

```

```

1640 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
    > ld(sch*) nohr
1641 . //stphtest, rank detail
1642 .
1643 . *Model 2.A- Binary for Change*
1644 .
1645 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
    ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

```

```

                                Wald chi2(7) =  20.74
Log pseudolikelihood = -1123.2422              Prob > chi2  =  0.0042

```

(Std. err. adjusted for 229 clusters in dyadid)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta1	.6675129	.1497639	-1.80	0.072	.4300145	1.03618
> 2							
	islamist	.6030511	.0875768	-3.48	0.000	.4536702	.80161
> 9							
	territory	1.247228	.1560612	1.77	0.077	.9759733	1.59387
> 3							
	strongstart	.853621	.1065985	-1.27	0.205	.6682958	1.09033
> 9							
	oilstart	.9949835	.0050447	-0.99	0.321	.9851451	1.0049
> 2							
	youthstartap	1.012308	.0132191	0.94	0.349	.986728	1.03855
> 2							
	muslimajstart	1.086133	.1196187	0.75	0.453	.8752616	1.34780

> 8

|

> -

1646 .

1647 . estimates store SmallChange

1648 .

1649 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

Repl. Model		
Islamist claim	0.592 (0.088)**	0.603 (0.088)**
Territory	1.291 (0.159)*	1.247 (0.156)+
Strong rebels	0.874 (0.111)	0.854 (0.107)
Oil	0.996 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.012 (0.013)
Muslim majority	1.098 (0.121)	1.086 (0.120)
Had Change 1		0.668 (0.150)+
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1650 .
1651 . *Model 2.B- haddelta15*
1652 .
1653 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) =  20.31
Log pseudolikelihood = -1123.9399                  Prob > chi2  =  0.0049

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta15	.6850511	.1994487	-1.30	0.194	.3871689	1.2121
> 2							
	islamist	.6147226	.0852096	-3.51	0.000	.4684789	.806618
> 7							
	territory	1.270658	.157221	1.94	0.053	.9970294	1.61938
> 3							
	strongstart	.8662725	.1084826	-1.15	0.252	.677734	1.10726
> 1							
	oilstart	.995661	.0051113	-0.85	0.397	.9856932	1.0057
> 3							
	youthstartap	1.014432	.0127331	1.14	0.254	.9897806	1.03969
> 8							
	muslimajstart	1.075206	.1166797	0.67	0.504	.869202	1.33003
> 4							

```
> -
```



```

1654 .
1655 . estimates store MedChange

1656 .
1657 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

```

Repl. Model			
Islamist claim	0.592 (0.088)**	0.603 (0.088)**	0.615 (0.085)**
Territory	1.291 (0.159)*	1.247 (0.156)+	1.271 (0.157)+
Strong rebels	0.874 (0.111)	0.854 (0.107)	0.866 (0.108)
Oil	0.996 (0.005)	0.995 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.012 (0.013)	1.014 (0.013)
Muslim majority	1.098 (0.121)	1.086 (0.120)	1.075 (0.117)
Had Change 1		0.668 (0.150)+	
Had Change 1.5			0.685 (0.199)
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1658 .
1659 . *Model 2.C- haddelta2*
1660 .
1661 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 21.57
Prob > chi2   = 0.0030
Log pseudolikelihood = -1122.3067

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.4343084	.2369116	-1.53	0.126	.149099	1.2650
> 9							
	islamist	.6419835	.0878322	-3.24	0.001	.4909844	.839421
> 3							
	territory	1.293733	.157445	2.12	0.034	1.019189	1.64223
> 1							
	strongstart	.8835099	.1101222	-0.99	0.320	.6920161	1.12799
> 4							
	oilstart	.996085	.0051632	-0.76	0.449	.9860165	1.00625
> 6							
	youthstartap	1.01621	.0121484	1.35	0.179	.9926767	1.04030
> 2							
	muslimajstart	1.061058	.1152134	0.55	0.585	.8576556	1.31270
> 1							

```
> -
```

```

1662 .
1663 . estimates store HighChange

1664 .
1665 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.603 (0.088)**	0.615 (0.085)**	0.642 (0.088)**
Territory	1.291 (0.159)*	1.247 (0.156)+	1.271 (0.157)+	1.294 (0.157)*
Strong rebels	0.874 (0.111)	0.854 (0.107)	0.866 (0.108)	0.884 (0.110)
Oil	0.996 (0.005)	0.995 (0.005)	0.996 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.012 (0.013)	1.014 (0.013)	1.016 (0.012)
Muslim majority	1.098 (0.121)	1.086 (0.120)	1.075 (0.117)	1.061 (0.115)
Had Change 1		0.668 (0.150)+		
Had Change 1.5			0.685 (0.199)	
Had Change 2				0.434 (0.237)
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1666 .
1667 . //Model 4: Number of changes
1668 .
1669 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      58                      Number of obs =    279
No. of failures =      69
Time at risk    = 338.4194

Wald chi2(7) = 11.59
Log pseudolikelihood = -183.11748          Prob > chi2 = 0.1150

```

(Std. err. adjusted for 58 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	numchanges	.6732643	.1041067	-2.56	0.011	.4972383	.911604
> 9							
	islamist	.6751418	.2341371	-1.13	0.257	.3421377	1.3322
> 6							
	territory	.9593754	.2478873	-0.16	0.872	.5781649	1.59193
> 5							
	strongstart	.8579643	.2237767	-0.59	0.557	.5145841	1.43048
> 1							
	oilstart	.9953389	.0108406	-0.43	0.668	.9743168	1.01681
> 4							
	youthstartap	.9967344	.0163711	-0.20	0.842	.9651585	1.02934
> 3							
	muslimajstart	.7859967	.1770793	-1.07	0.285	.5054186	1.22233
> 5							

```
> -
```

1670 . estimates store NumChanges

1671 .

1672 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —

Repl. Model

> —

Islamist claim	0.592 (0.088)**	0.603 (0.088)**	0.615 (0.085)**	0.642 (0.088)**	0.675 (0.234)
Territory	1.291 (0.159)*	1.247 (0.156)+	1.271 (0.157)+	1.294 (0.157)*	0.959 (0.248)
Strong rebels	0.874 (0.111)	0.854 (0.107)	0.866 (0.108)	0.884 (0.110)	0.858 (0.224)
Oil	0.996 (0.005)	0.995 (0.005)	0.996 (0.005)	0.996 (0.005)	0.995 (0.011)
Youth bulge/adult pop.	1.018 (0.012)	1.012 (0.013)	1.014 (0.013)	1.016 (0.012)	0.997 (0.016)
Muslim majority	1.098 (0.121)	1.086 (0.120)	1.075 (0.117)	1.061 (0.115)	0.786 (0.177)
Had Change 1		0.668 (0.150)+			
Had Change 1.5			0.685 (0.199)		
Had Change 2				0.434 (0.237)	
Change Frequency					0.673 (0.104)*
N	1,020	1,020	1,020	1,020	279

> —

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1673 .
1674 . // Model with other covariates
1675 .
1676 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
              Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          202                      Number of obs =      865
No. of failures =          261
Time at risk    = 1,089.0681

Wald chi2(12) =  46.50
Log pseudolikelihood = -882.80177                  Prob > chi2   =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	

```

> 142
  strongstart | .9491888 .1339414 -0.37 0.712 .7198439 1.251
> 604
  oilstart | .9947956 .0055877 -0.93 0.353 .983904 1.005
> 808
  youthstartap | 1.016067 .015724 1.03 0.303 .9857108 1.047
> 357
  muslimajstart | 1.01011 .1192057 0.09 0.932 .801523 1.272
> 978

```

```

> —

```

1677 .

1678 . estimates store Model2A

1679 .

1680 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

Model Comparisons

```

> —
Repl. Model
>

```

```

> —
Islamist claim          0.592      0.603      0.615      0.642      0.
> 675      0.626
                    (0.088)** (0.088)** (0.085)** (0.088)** (0.
> 234) (0.114)*
Territory              1.291      1.247      1.271      1.294      0.
> 959      1.161
                    (0.159)* (0.156)+ (0.157)+ (0.157)* (0.
> 248) (0.157)
Strong rebels          0.874      0.854      0.866      0.884      0.
> 858      0.949
                    (0.111) (0.107) (0.108) (0.110) (0.
> 224) (0.134)
Oil                    0.996      0.995      0.996      0.996      0.
> 995      0.995
                    (0.005) (0.005) (0.005) (0.005) (0.
> 011) (0.006)
Youth bulge/adult pop. 1.018      1.012      1.014      1.016      0.
> 997      1.016
                    (0.012) (0.013) (0.013) (0.012) (0.

```

> 016)	(0.016)					
Muslim majority		1.098	1.086	1.075	1.061	0.
> 786	1.010					
		(0.121)	(0.120)	(0.117)	(0.115)	(0.
> 177)	(0.119)					
Had Change 1			0.668			
>	0.715					
			(0.150)+			
>	(0.164)					
Had Change 1.5				0.685		
>						
				(0.199)		
>						
Had Change 2					0.434	
>						
					(0.237)	
>						
Change Frequency						0.
> 673						
						(0.
> 104)*						
Anocracy over time						
>	1.053					
>	(0.110)					
Government secondary support						
>	0.631					
>	(0.167)+					
Rebel support						
>	0.734					
>	(0.150)					
Government support						
>	0.783					
>	(0.152)					
Leftist						
>	0.540					
>	(0.093)**					
N		1,020	1,020	1,020	1,020	2
> 79	865					

> + p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1681 .
1682 . stcox numchanges anocracy secsup_govgov rebextpartdummy govmlsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      52                      Number of obs =      229
No. of failures =      56
Time at risk    = 284.5295

Wald chi2(12) =  48.35
Log pseudolikelihood = -137.08794              Prob > chi2    =  0.0000
```

(Std. err. adjusted for 52 clusters in **dyad**)

```
> id)
```

territory	1.560728	.5337857	1.30	0.193	.7983757	3.051
> 036						
strongstart	.6431409	.1767792	-1.61	0.108	.3752645	1.102
> 236						
oilstart	.9809718	.0098343	-1.92	0.055	.961885	1.000
> 437						
youthstartap	1.024779	.0295609	0.85	0.396	.968448	1.084
> 386						
muslimajstart	.6906177	.1558046	-1.64	0.101	.4438182	1.074
> 658						

> —

1683 .

1684 . estimates store Model2B

1685 .

1686 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —						
Repl. Model						
>						
> —						
Islamist claim			0.592	0.603	0.615	0.642
> 675	0.626	1.468				
			(0.088)**	(0.088)**	(0.085)**	(0.088)**
> 234)	(0.114)*	(0.480)				
Territory			1.291	1.247	1.271	1.294
> 959	1.161	1.561				
			(0.159)*	(0.156)+	(0.157)+	(0.157)*
> 248)	(0.157)	(0.534)				
Strong rebels			0.874	0.854	0.866	0.884
> 858	0.949	0.643				
			(0.111)	(0.107)	(0.108)	(0.110)
> 224)	(0.134)	(0.177)				
Oil			0.996	0.995	0.996	0.996
> 995	0.995	0.981				
			(0.005)	(0.005)	(0.005)	(0.005)
> 011)	(0.006)	(0.010)+				
Youth bulge/adult pop.			1.018	1.012	1.014	1.016
> 997	1.016	1.025				

			(0.012)	(0.013)	(0.013)	(0.012)	(0.
> 016)	(0.016)	(0.030)					
Muslim majority			1.098	1.086	1.075	1.061	0.
> 786	1.010	0.691					
			(0.121)	(0.120)	(0.117)	(0.115)	(0.
> 177)	(0.119)	(0.156)					
Had Change 1				0.668			
>	0.715						
				(0.150)+			
>	(0.164)						
Had Change 1.5					0.685		
>							
					(0.199)		
>							
Had Change 2						0.434	
>							
						(0.237)	
>							
Change Frequency							0.
> 673		0.483					
							(0.
> 104)*		(0.088)**					
Anocracy over time							
>	1.053	0.966					
>	(0.110)	(0.171)					
Government secondary support							
>	0.631	0.319					
>	(0.167)+	(0.148)*					
Rebel support							
>	0.734	0.458					
>	(0.150)	(0.274)					
Government support							
>	0.783	0.590					
>	(0.152)	(0.253)					
Leftist							
>	0.540	0.305					
>	(0.093)**	(0.109)**					
N			1,020	1,020	1,020	1,020	2
> 79	865	229					
>							

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```
1687 .
1688 .
1689 . *****
1690 . ** Results Plots
1691 . *****
1692 .
1693 .
1694 . * d/l lean2 plot for bw graph *
1695 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

1696 . set scheme lean2

1697 .
1698 . ** Figure A[X] of Document **
1699 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 10, T=90")

1700 . graph export thresh_10_90.pdf, as(pdf) replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
        > hresh_10_90.pdf saved as PDF format

1701 .
    end of do-file

1702 . *saves: thresh_10_1.pdf
1703 . do 06dRobustnessTerminationComparision_10_1.do
```

1704 .
1705 . clear all

1706 .
1707 . *To run the do-file you need to install the following:
1708 . *1. To generate summary statistics:
1709 . ssc install unique, replace all
checking **unique** consistency and verifying not already installed...
all files already exist and are up to date.

1710 .
1711 . *2. To generate graphs:
1712 . ssc install blindschemes, replace all
checking **blindschemes** consistency and verifying not already installed...
all files already exist and are up to date.

1713 . set scheme plottig, permanently
(**set scheme** preference recorded)

1714 .
1715 . *3. To generate tables:
1716 . ssc install outreg
checking **outreg** consistency and verifying not already installed...
all files already exist and are up to date.

1717 . ssc install outreg2
checking **outreg2** consistency and verifying not already installed...
all files already exist and are up to date.

1718 .
1719 . * Latex code
1720 . ssc install estout, replace
checking **estout** consistency and verifying not already installed...
all files already exist and are up to date.

```

1721 .
1722 . * Coefplot
1723 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

1724 .
1725 . *****
      > *****
1726 .
1727 . * load data:
1728 . * Threshold 1 article/year for all years (basically same):
1729 . use "./data/terminationplus_10_1.dta"

1730 .
1731 . sort dyadid year

1732 .
1733 . *****
1734 . * STSET FOR SURVIVAL ANALYSIS
1735 . *****
1736 .
1737 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
      > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

      ID variable: dyadid
      Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
      Enter on or after: time start_of_segment
      Exit on or before: time .
      Time for analysis: (time-origin)
      Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

1738 .
1739 .
1740 . *****
1741 . * DESCRIPTIVE STATISTICS
1742 . *****
1743 . *****
1744 . * CREATE LABELS
1745 . *****
1746 .
1747 . label variable term "Termination"

1748 . label variable islamist "Islamist claim"

1749 . label variable counter "Years From Change"

1750 . label variable delta1 "Change Year, Delta 1"

1751 . label variable delta1 "Change Year, Delta 1"

1752 . label variable delta1_L2 "Change in Prev 2 years"

1753 . label variable numchanges "Change Frequency"

```

1754 . label variable haddelta1 "Had Change |1|"
1755 . label variable haddelta15 "Had Change |1.5|"
1756 . label variable haddelta2 "Had Change |2|"
1757 . label variable territory "Territory"
1758 . label variable duration "Duration"
1759 . label variable intensitylevel "War"
1760 . label variable number_group "Number of groups"
1761 . label variable strongstart "Strong rebels"
1762 . label variable anostart "Anocracy"
1763 . label variable lngdppcstart "GDP per capita"
1764 . label variable lnpopstart "Population"
1765 . label variable muslimajstart "Muslim majority"
1766 . label variable oilstart "Oil"
1767 . label variable youthstartap "Youth bulge/adult pop."
1768 . label variable anocracy "Anocracy over time"
1769 . label variable lngdppc "GDP per capita over time"
1770 . label variable lnpop "Population over time"


```

1771 . label variable foreignfighter "Foreign fighters"

1772 . label variable govmlsupport "Government support"

1773 . label variable leftist "Leftist"

1774 . label variable nonislamistrel "Non-Islamist religious claims"

1775 . label variable muslimid "Muslim identity"

1776 . label variable secsup_govgov "Government secondary support"

1777 . label variable rebextpartdummy "Rebel support"

1778 .
1779 .
1780 .
1781 . *****
1782 . * Summary of new variables
1783 . *****
1784 .
1785 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	151	.1523179	.3605245	0	1
delta1_L2	151	.2516556	.4354085	0	1
numchanges	147	.6870748	.9566116	0	3
counter	151	.2649007	.7366771	0	5
haddelta1	1,229	.0537022	.2255209	0	1
haddelta15	1,229	.0406835	.1976363	0	1
haddelta2	1,229	.0252238	.1568679	0	1

```

1786 .
1787 .
1788 . *****
1789 . * CONTROL VARIABLES
1790 . *****
1791 .
1792 . global X1 territory strongstart oilstart youthstartap muslimajstart

1793 . global X2 _yrs _yrs_sq _yrs_cu

1794 .
1795 . *****
1796 . * TABLE 1
1797 . *****
1798 .
1799 . *Model 1- Replication*
1800 .
1801 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
              Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1127	Wald chi2(6) =	20.45
		Prob > chi2 =	0.0023

```

> )
                                     (Std. err. adjusted for 229 clusters in dyadid
> -

```

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
islamist	.5919864	.0879443	-3.53	0.000	.4424447 .792071
territory	1.291421	.1592884	2.07	0.038	1.014093 1.64459
strongstart	.8742423	.1109606	-1.06	0.290	.6817036 1.12116
oilstart	.9956987	.0049717	-0.86	0.388	.9860018 1.00549
youthstartap	1.018023	.012456	1.46	0.144	.9939002 1.04273
muslimajstart	1.097879	.1206258	0.85	0.395	.8851798 1.36168

```

> -

```

1802 .

1803 . estimates store RepModel

1804 .

1805 . estimates store RepModel

```

1806 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace
> tex frag ctitle(Repl. Model)

```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018

	(0.012)
Muslim majority	1.098
	(0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1807 .
1808 . //capture drop sch* sca*
1809 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe
      > ld(sch*) nohr
1810 . //stphtest, rank detail
1811 .
1812 . *Model 2.A- Binary for Change*
1813 .
1814 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	229	Number of obs =	1,020
No. of failures =	320		
Time at risk =	1,314.7078		
Log pseudolikelihood =	-1125.1123	Wald chi2(7) =	22.15
		Prob > chi2 =	0.0024

(Std. err. adjusted for 229 clusters in dyadid

>)

> -							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
>]							
> -							
	haddelta1	1.006512	.2036968	0.03	0.974	.6769453	1.49652
> 6	islamist	.5918053	.0858246	-3.62	0.000	.4453855	.786360
> 2	territory	1.291944	.1609116	2.06	0.040	1.012107	1.64915
> 2	strongstart	.8743802	.1110465	-1.06	0.291	.6817067	1.1215
> 1	oilstart	.9957151	.0048785	-0.88	0.381	.9861991	1.00532
> 3	youthstartap	1.018119	.0128932	1.42	0.156	.9931595	1.04370
> 5	muslimajstart	1.097905	.1204567	0.85	0.395	.8854725	1.36130
> 2							
> -							

1815 .

1816 . estimates store SmallChange

1817 .

1818 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

Repl. Model		
Islamist claim	0.592 (0.088)**	0.592 (0.086)**
Territory	1.291 (0.159)*	1.292 (0.161)*
Strong rebels	0.874 (0.111)	0.874 (0.111)
Oil	0.996 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018	1.018

	(0.012)	(0.013)
Muslim majority	1.098	1.098
	(0.121)	(0.120)
Had Change 1		1.007
		(0.204)
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1819 .
1820 . *Model 2.B- haddelta15*
1821 .
1822 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) = 22.29
Log pseudolikelihood = -1125.1116              Prob > chi2 = 0.0023
```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
	_t						
> -							
	haddelta15	1.012765	.2541436	0.05	0.960	.6193095	1.65618
> 7	islamist	.5914668	.0843284	-3.68	0.000	.4472705	.782150
> 8	territory	1.29213	.1604149	2.06	0.039	1.013052	1.6480

```

> 9
  strongstart | .8746013 .1113216 -1.05 0.292 .6815017 1.12241
> 5
  oilstart | .9957293 .0048672 -0.88 0.381 .9862352 1.00531
> 5
  youthstartap | 1.018167 .0128898 1.42 0.155 .9932142 1.04374
> 6
  muslimajstart | 1.098012 .1201731 0.85 0.393 .8860254 1.36071
> 6

```

```

> -

```

1823 .

1824 . estimates store MedChange

1825 .

1826 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

Repl. Model			
Islamist claim	0.592 (0.088)**	0.592 (0.086)**	0.591 (0.084)**
Territory	1.291 (0.159)*	1.292 (0.161)*	1.292 (0.160)*
Strong rebels	0.874 (0.111)	0.874 (0.111)	0.875 (0.111)
Oil	0.996 (0.005)	0.996 (0.005)	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.018 (0.013)	1.018 (0.013)
Muslim majority	1.098 (0.121)	1.098 (0.120)	1.098 (0.120)
Had Change 1		1.007 (0.204)	
Had Change 1.5			1.013 (0.254)
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1827 .
1828 . *Model 2.C- haddelta2*
1829 .
1830 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 20.68
Prob > chi2   = 0.0043
Log pseudolikelihood = -1125.0377

```

(Std. err. adjusted for 229 clusters in **dyadid**)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta2	.8377972	.4648277	-0.32	0.750	.2824062	2.48544
> 2							
	islamist	.6003961	.0871169	-3.52	0.000	.4517825	.797896
> 2							
	territory	1.293384	.1590499	2.09	0.036	1.016374	1.64589
> 2							
	strongstart	.8760436	.1103649	-1.05	0.294	.6843692	1.12140
> 1							
	oilstart	.9954224	.004927	-0.93	0.354	.9858123	1.00512
> 6							
	youthstartap	1.017486	.0124599	1.42	0.157	.993356	1.04220
> 3							
	muslimajstart	1.097788	.1209389	0.85	0.397	.8845961	1.3623
> 6							

```
> -
```



```

1831 .
1832 . estimates store HighChange

1833 .
1834 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.592 (0.086)**	0.591 (0.084)**	0.600 (0.087)**
Territory	1.291 (0.159)*	1.292 (0.161)*	1.292 (0.160)*	1.293 (0.159)*
Strong rebels	0.874 (0.111)	0.874 (0.111)	0.875 (0.111)	0.876 (0.110)
Oil	0.996 (0.005)	0.996 (0.005)	0.996 (0.005)	0.995 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.018 (0.013)	1.018 (0.013)	1.017 (0.012)
Muslim majority	1.098 (0.121)	1.098 (0.120)	1.098 (0.120)	1.098 (0.121)
Had Change 1		1.007 (0.204)		
Had Change 1.5			1.013 (0.254)	
Had Change 2				0.838 (0.465)
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

1835 .
1836 . //Model 4: Number of changes
1837 .
1838 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      46                      Number of obs =    116
No. of failures =      55
Time at risk    = 150.5396

Wald chi2(7) = 15.50
Prob > chi2   = 0.0300
Log pseudolikelihood = -152.07101

```

(Std. err. adjusted for 46 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
_t							
> -							
	numchanges	.7317242	.1305295	-1.75	0.080	.515828	1.03798
> 2							
	islamist	.8156197	.2781458	-0.60	0.550	.4180302	1.59135
> 8							
	territory	1.0076	.2422722	0.03	0.975	.6289568	1.61419
> 2							
	strongstart	.8296145	.2258679	-0.69	0.493	.4865542	1.4145
> 6							
	oilstart	.9981181	.009826	-0.19	0.848	.9790442	1.01756
> 4							
	youthstartap	1.00462	.0156441	0.30	0.767	.974421	1.03575
> 4							
	muslimajstart	.6585833	.1502043	-1.83	0.067	.4211876	1.02978
> 3							

```
> -
```

1839 . estimates store NumChanges

1840 .

1841 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

Repl. Model					
Islamist claim	0.592 (0.088)**	0.592 (0.086)**	0.591 (0.084)**	0.600 (0.087)**	0.816 (0.278)
Territory	1.291 (0.159)*	1.292 (0.161)*	1.292 (0.160)*	1.293 (0.159)*	1.008 (0.242)
Strong rebels	0.874 (0.111)	0.874 (0.111)	0.875 (0.111)	0.876 (0.110)	0.830 (0.226)
Oil	0.996 (0.005)	0.996 (0.005)	0.996 (0.005)	0.995 (0.005)	0.998 (0.010)
Youth bulge/adult pop.	1.018 (0.012)	1.018 (0.013)	1.018 (0.013)	1.017 (0.012)	1.005 (0.016)
Muslim majority	1.098 (0.121)	1.098 (0.120)	1.098 (0.120)	1.098 (0.121)	0.659 (0.150)+
Had Change 1		1.007 (0.204)			
Had Change 1.5			1.013 (0.254)		
Had Change 2				0.838 (0.465)	
Change Frequency					0.732 (0.131)+
N	1,020	1,020	1,020	1,020	116

> —

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

1842 .
1843 . // Model with other covariates
1844 .
1845 . stcox haddelta1 anocracy secsup_govgov rebextpartdummy govmlsupport islamis
> t leftist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      202                Number of obs =      865
No. of failures =      261
Time at risk    = 1,089.0681

Wald chi2(12) =  49.58
Log pseudolikelihood = -883.91676        Prob > chi2   =  0.0000

```

(Std. err. adjusted for 202 clusters in dyad

> id)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	

```

> 115
  strongstart | .9690927 .1390626 -0.22 0.827 .7315093 1.28
> 384
  oilstart | .9951937 .0055207 -0.87 0.385 .9844319 1.006
> 073
  youthstartap | 1.021879 .015978 1.38 0.166 .9910377 1.05
> 368
  muslimajstart | 1.010207 .118799 0.09 0.931 .8022512 1.272
> 069

```

```

> —

```

1846 .

1847 . estimates store Model2A

1848 .

1849 . outreg, se var hr starlevels(10 5 1) sigsymbols(+,*,**) note (Robust standar
> d errors in parentheses clustered on dyad.) merge tex frag ctitle(Model2A) t
> itle(Model Comparisons)

Model Comparisons

```

> —
Repl. Model
>

```

```

> —
Islamist claim          0.592      0.592      0.591      0.600      0.
> 816      0.615
                    (0.088)** (0.086)** (0.084)** (0.087)** (0.
> 278) (0.109)**
Territory              1.291      1.292      1.292      1.293      1.
> 008      1.194
                    (0.159)* (0.161)* (0.160)* (0.159)* (0.
> 242) (0.161)
Strong rebels         0.874      0.874      0.875      0.876      0.
> 830      0.969
                    (0.111) (0.111) (0.111) (0.110) (0.
> 226) (0.139)
Oil                   0.996      0.996      0.996      0.995      0.
> 998      0.995
                    (0.005) (0.005) (0.005) (0.005) (0.
> 010) (0.006)
Youth bulge/adult pop. 1.018      1.018      1.018      1.017      1.
> 005      1.022
                    (0.012) (0.013) (0.013) (0.012) (0.

```

> 016)	(0.016)					
Muslim majority		1.098	1.098	1.098	1.098	0.
> 659	1.010					
		(0.121)	(0.120)	(0.120)	(0.121)	(0.
> 150)+	(0.119)					
Had Change 1			1.007			
>	0.985					
			(0.204)			
>	(0.233)					
Had Change 1.5				1.013		
>						
				(0.254)		
>						
Had Change 2					0.838	
>						
					(0.465)	
>						
Change Frequency						0.
> 732						
						(0.
> 131)+						
Anocracy over time						
>	1.034					
>	(0.108)					
Government secondary support						
>	0.656					
>	(0.173)					
Rebel support						
>	0.726					
>	(0.150)					
Government support						
>	0.768					
>	(0.158)					
Leftist						
>	0.536					
>	(0.094)**					
N		1,020	1,020	1,020	1,020	1
> 16	865					

> + p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1850 .
1851 . stcox numchanges anocracy secsup_govgov rebextpartdummy govnilsupport islami
> st leftist $X1, cluster(dyadid) strata(order) nolog
```

```
      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid
```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```
No. of subjects =      40                      Number of obs =      89
No. of failures =      47
Time at risk    = 122.6196

Wald chi2(12) =  52.02
Log pseudolikelihood = -120.10374              Prob > chi2   = 0.0000
```

(Std. err. adjusted for 40 clusters in dyad

```
> id)
```

> —							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interv	
> all]							
> —							
	numchanges	.4596363	.1155045	−3.09	0.002	.2808739	.7521
> 722							
	anocracy	.7655396	.1858878	−1.10	0.271	.4756412	1.232
> 128							
	secsup_govgov	.3228661	.2342812	−1.56	0.119	.0778691	1.338
> 689							
	rebextpartdummy	1.317146	.4927674	0.74	0.462	.632681	2.742
> 101							
	govmilsupport	.9620139	.4091495	−0.09	0.927	.4179852	2.214
> 123							
	islamist	1.324371	.3524399	1.06	0.291	.78612	2.231
> 158							
	leftist	.8142847	.2465677	−0.68	0.497	.449811	1.474
> 085							

territory	1.155075	.4575494	0.36	0.716	.5314124	2.510
> 666						
strongstart	.7529718	.2264302	-0.94	0.345	.417647	1.357
> 526						
oilstart	.9969901	.0110314	-0.27	0.785	.9756017	1.018
> 847						
youthstartap	1.019784	.017218	1.16	0.246	.98659	1.054
> 096						
muslimajstart	.7002805	.1773468	-1.41	0.159	.4262891	1.150
> 376						

> —

1852 .

1853 . estimates store Model2B

1854 .

1855 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —

Repl. Model						
>						
Islamist claim		0.592	0.592	0.591	0.600	0.
> 816	0.615	1.324	(0.088)**	(0.086)**	(0.084)**	(0.087)** (0.
> 278)	(0.109)**	(0.352)				
Territory		1.291	1.292	1.292	1.293	1.
> 008	1.194	1.155	(0.159)*	(0.161)*	(0.160)*	(0.159)* (0.
> 242)	(0.161)	(0.458)				
Strong rebels		0.874	0.874	0.875	0.876	0.
> 830	0.969	0.753	(0.111)	(0.111)	(0.111)	(0.110) (0.
> 226)	(0.139)	(0.226)				
Oil		0.996	0.996	0.996	0.995	0.
> 998	0.995	0.997	(0.005)	(0.005)	(0.005)	(0.005) (0.
> 010)	(0.006)	(0.011)				
Youth bulge/adult pop.		1.018	1.018	1.018	1.017	1.
> 005	1.022	1.020				

			(0.012)	(0.013)	(0.013)	(0.012)	(0.
> 016)	(0.016)	(0.017)					
Muslim majority			1.098	1.098	1.098	1.098	0.
> 659	1.010	0.700					
			(0.121)	(0.120)	(0.120)	(0.121)	(0.
> 150)+	(0.119)	(0.177)					
Had Change 1				1.007			
>	0.985						
			(0.204)				
>	(0.233)						
Had Change 1.5					1.013		
>							
					(0.254)		
>							
Had Change 2						0.838	
>							
						(0.465)	
>							
Change Frequency							0.
> 732		0.460					
							(0.
> 131)+		(0.116)**					
Anocracy over time							
>	1.034	0.766					
>	(0.108)	(0.186)					
Government secondary support							
>	0.656	0.323					
>	(0.173)	(0.234)					
Rebel support							
>	0.726	1.317					
>	(0.150)	(0.493)					
Government support							
>	0.768	0.962					
>	(0.158)	(0.409)					
Leftist							
>	0.536	0.814					
>	(0.094)**	(0.247)					
N			1,020	1,020	1,020	1,020	1
> 16	865	89					
>							

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```
1856 .
1857 .
1858 . *****
1859 . ** Results Plots
1860 . *****
1861 .
1862 .
1863 . * d/l lean2 plot for bw graph *
1864 . net install gr0002_3, from(http://www.stata-journal.com/software/sj4-3)
    checking gr0002_3 consistency and verifying not already installed...
    all files already exist and are up to date.

1865 . set scheme lean2

1866 .
1867 . ** Figure A[X] of Document **
1868 .
1869 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white) title("N = 10, T= 100")

1870 . graph export thresh_10_1.pdf, as(pdf) name("Graph") replace
    file /Users/Promachos/Dropbox
    (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/t
    > hresh_10_1.pdf saved as PDF format

1871 .
    end of do-file

1872 .
    end of do-file
```

```

1873 . do STC_STATA_Replication.do

1874 .
1875 . *****
    > *****
1876 .
1877 . *Replication for
1878 . *"Subject to Change: Quantifying Transformation in Armed Conflict Actors At
    > Scale Using Text"
1879 . *Margaret J. Foster
1880 . *Last updated: December 5, 2023
1881 .
1882 . *The project extends Desirée Nilsson & Isak Svensson's "The Intractability o
    > f Islamist Insurgencies:
1883 . * Islamist Rebels and the Recurrence of Civil War"
1884 . *International Studies Quarterly
1885 .
1886 . *As such, the analysis closely follows their replication scripts
1887 . *(Note that dyadep 18502 has been replaced with 28502 due to an error in ori
    > ginal termination data)
1888 .
1889 . *****
    > *****/
1890 .
1891 . clear all

1892 .
1893 . *To run the do-file you need to install the following:
1894 .
1895 . *1. To generate summary statistics:
1896 . ssc install unique, replace all
    checking unique consistency and verifying not already installed...
    all files already exist and are up to date.

```

```

1897 .
1898 . *2. To generate graphs:
1899 . ssc install blindschemes, replace all
      checking blindschemes consistency and verifying not already installed...
      all files already exist and are up to date.

1900 . set scheme plottig, permanently
      (set scheme preference recorded)

1901 .
1902 . *3. To generate tables:
1903 . ssc install outreg
      checking outreg consistency and verifying not already installed...
      all files already exist and are up to date.

1904 . ssc install outreg2
      checking outreg2 consistency and verifying not already installed...
      all files already exist and are up to date.

1905 .
1906 . * Latex code
1907 . ssc install estout, replace
      checking estout consistency and verifying not already installed...
      all files already exist and are up to date.

1908 .
1909 . * Coefplot
1910 . ssc install coefplot
      checking coefplot consistency and verifying not already installed...
      all files already exist and are up to date.

1911 .
1912 . *****
      > *****

```

```

1913 . * set working directory:
1914 . * MJF: Set to Replication directory; I'm using my own throughout
1915 .
1916 . * load data:
1917 . use "./data/terminationplus.dta"

1918 .
1919 . sort dyadid year

1920 .
1921 . *****
1922 . * STSET FOR SURVIVAL ANALYSIS
1923 . *****
1924 .
1925 . stset end_of_segment, id(dyadid) origin(time first_year_of_con) enter(time s
    > tart_of_segment) failure(term==1) exit(time .)

```

Survival-time data settings

```

          ID variable: dyadid
          Failure event: term==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
          Enter on or after: time start_of_segment
          Exit on or before: time .
          Time for analysis: (time-origin)
                   Origin: time first_year_of_con

```

1,229	total observations	
0	exclusions	

1,229	observations remaining, representing	
299	subjects	
398	failures in multiple-failure-per-subject data	
1,589.007	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

1926 .
1927 . *****
1928 . * CREATE LABELS
1929 . *****
1930 .
1931 . label variable term "Termination"

1932 . label variable islamist "Islamist claim"

1933 . label variable counter "Years From Change"

1934 . label variable delta1 "Change Year, Delta 1"

1935 . label variable delta1 "Change Year, Delta 1"

1936 . label variable delta1_L2 "Change in Prev 2 years"

1937 . label variable numchanges "Change Frequency"

1938 . label variable haddelta1 "Had Change |1|"

1939 . label variable haddelta15 "Had Change |1.5|"

1940 . label variable haddelta2 "Had Change |2|"

1941 . label variable territory "Territory"

1942 . label variable duration "Duration"

1943 . label variable intensitylevel "War"

1944 . label variable number_group "Number of groups"

1945 . label variable strongstart "Strong rebels"

1946 . label variable anostart "Anocracy"
1947 . label variable lngdppcstart "GDP per capita"
1948 . label variable lnpopstart "Population"
1949 . label variable muslimajstart "Muslim majority"
1950 . label variable oilstart "Oil"
1951 . label variable youthstartap "Youth bulge/adult pop."
1952 . label variable anocracy "Anocracy over time"
1953 . label variable lngdppc "GDP per capita over time"
1954 . label variable lnpop "Population over time"
1955 . label variable foreignfighter "Foreign fighters"
1956 . label variable govmilsupport "Government support"
1957 . label variable leftist "Leftist"
1958 . label variable nonislamistrel "Non-Islamist religious claims"
1959 . label variable muslimid "Muslim identity"
1960 . label variable secsup_govgov "Government secondary support"
1961 . label variable rebextpartdummy "Rebel support"
1962 .
1963 .

```

1964 . *****
1965 . * Summary of new variables
1966 . *****
1967 .
1968 . su delta1 delta1_L2 numchanges counter haddelta1 haddelta15 haddelta2

```

Variable	Obs	Mean	Std. dev.	Min	Max
delta1	1,118	.1127013	.3163688	0	1
delta1_L2	1,118	.2003578	.4004472	0	1
numchanges	1,114	1.061041	1.166256	0	4
counter	1,118	.8300537	2.057306	0	16
haddelta1	1,229	.5288853	.4993681	0	1
haddelta15	1,229	.3303499	.4705305	0	1
haddelta2	1,229	.1635476	.3700151	0	1

```

1969 .
1970 . *****
1971 . * CONTROL VARIABLES
1972 . *****
1973 .
1974 . global X1 territory strongstart oilstart youthstartap muslimajstart

1975 . global X2 _yrs _yrs_sq _yrs_cu

1976 .
1977 . *****
1978 . * Manuscript Figure 6 and Appendix Figure 11
1979 . *****
1980 .
1981 . *Model 1- Replication*
1982 .
1983 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
        Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_con
        Enter on or after: time start_of_segment
        Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

Number of obs = 1,020

No. of failures = **320**

Time at risk = 1,314.7078

Wald chi2(6) = 20.45

Prob > chi2 = 0.0023

Log pseudolikelihood = **-1125.1127**

(Std. err. adjusted for 229 clusters in **dyadid**)

 $\geq)$

> -

_t	Haz. ratio	std. err.	z	P> z	[95% conf. interval
----	------------	-----------	---	------	---------------------

 $\geq]$

> -

islamist	.5919864	.0879443	-3.53	0.000	.4424447	.792071
----------	----------	----------	-------	-------	----------	---------

> 8

territory	1.291421	.1592884	2.07	0.038	1.014093	1.64459
-----------	----------	----------	------	-------	----------	---------

> 2

strongstart	.8742423	.1109606	-1.06	0.290	.6817036	1.12116
-------------	----------	----------	-------	-------	----------	---------

 ≥ 1

oilstart	.9956987	.0049717	-0.86	0.388	.9860018	1.00549
----------	----------	----------	-------	-------	----------	---------

 ≥ 1

youthstartap	1.018023	.012456	1.46	0.144	.9939002	1.04273
--------------	----------	---------	------	-------	----------	---------

> 2

muslimajstart	1.097879	.1206258	0.85	0.395	.8851798	1.36168
---------------	----------	----------	------	-------	----------	---------

> 7

> -

1984 .

```
1985 . estimates store RepModel
```

1986 .

```
1987 . estimates store RepModel
```

```
1988 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*  
> ,**) note (Robust standard errors in parentheses clustered on dyad.) replace  
> tex frag ctitle(Repl. Model)
```

Repl. Model	
Islamist claim	0.592 (0.088)**
Territory	1.291 (0.159)*
Strong rebels	0.874 (0.111)
Oil	0.996 (0.005)
Youth bulge/adult pop.	1.018 (0.012)
Muslim majority	1.098 (0.121)
N	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```
1989 .
```

```
1990 . //capture drop sch* sca*
```

```
1991 . //stcox islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*) schoenfe  
> ld(sch*) nohr
```

```
1992 . //stphtest, rank detail
```

```
1993 .
```

```
1994 . *Model 2.A- Binary for Change*
```

```

1995 .
1996 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      229                      Number of obs =  1,020
No. of failures =      320
Time at risk    = 1,314.7078

Wald chi2(7) =  48.96
Log pseudolikelihood = -1119.052                Prob > chi2   =  0.0000

```

(Std. err. adjusted for 229 clusters in dyadid)

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta1	.6251834	.0610924	-4.81	0.000	.5162128	.757157
> 3							
	islamist	.647403	.0980418	-2.87	0.004	.4811383	.87112
> 3							
	territory	1.465078	.1681967	3.33	0.001	1.169876	1.83477
> 2							
	strongstart	.9014952	.1150682	-0.81	0.417	.7019638	1.15774
> 3							
	oilstart	.9983029	.0050215	-0.34	0.736	.9885093	1.00819
> 3							
	youthstartap	1.022416	.0126104	1.80	0.072	.9979964	1.04743
> 3							
	muslimajstart	1.085135	.1155439	0.77	0.443	.8807425	1.33696
> 1							
> -							

```

1997 .
1998 . estimates store SmallChange

1999 .
2000 . outreg using termination-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Binary Change)

```

Repl. Model		
Islamist claim	0.592 (0.088)**	0.647 (0.098)**
Territory	1.291 (0.159)*	1.465 (0.168)**
Strong rebels	0.874 (0.111)	0.901 (0.115)
Oil	0.996 (0.005)	0.998 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.022 (0.013)+
Muslim majority	1.098 (0.121)	1.085 (0.116)
Had Change 1		0.625 (0.061)**
N	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

2001 .
2002 . *Model 2.B- haddelta15*
2003 .

```

```
2004 . stcox haddelta15 islamist $X1, cluster(dyadid) strata(order) nolog
```

```

      Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

```

```

Log pseudolikelihood = -1122.1989                      Wald chi2(7) =  28.51
                                                    Prob > chi2  = 0.0002

```

```
(Std. err. adjusted for 229 clusters in dyadid)
```

```
> )
```

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -							
	_t						
>]							
> -							
	haddelta15	.6975078	.0800603	-3.14	0.002	.5569904	.87347
> 5							
	islamist	.6583052	.0960372	-2.87	0.004	.4945945	.876204
> 1							
	territory	1.365254	.1694808	2.51	0.012	1.070401	1.74132
> 7							
	strongstart	.9173295	.1133908	-0.70	0.485	.7199605	1.16880
> 5							
	oilstart	.9976196	.0049251	-0.48	0.629	.9880132	1.00731
> 9							
	youthstartap	1.021938	.0123043	1.80	0.071	.9981045	1.04634
> 1							
	muslimajstart	1.02932	.1142993	0.26	0.795	.8279991	1.2795
> 9							
> -							

```

2005 .
2006 . estimates store MedChange

2007 .
2008 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(Med Delta)

```

Repl. Model			
Islamist claim	0.592 (0.088)**	0.647 (0.098)**	0.658 (0.096)**
Territory	1.291 (0.159)*	1.465 (0.168)**	1.365 (0.169)*
Strong rebels	0.874 (0.111)	0.901 (0.115)	0.917 (0.113)
Oil	0.996 (0.005)	0.998 (0.005)	0.998 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.022 (0.013)+	1.022 (0.012)+
Muslim majority	1.098 (0.121)	1.085 (0.116)	1.029 (0.114)
Had Change 1		0.625 (0.061)**	
Had Change 1.5			0.698 (0.080)**
N	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

2009 .

```

```
2010 . *Model 2.C- haddelta2*
2011 .
2012 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

Stratified Cox regression with Breslow method for ties
Strata variable: order

No. of subjects =          229                      Number of obs =  1,020
No. of failures =          320
Time at risk    = 1,314.7078

Wald chi2(7) = 21.44
Log pseudolikelihood = -1124.7247                    Prob > chi2 = 0.0032
```

(Std. err. adjusted for 229 clusters in dyadid)							
>)							
> -							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
>]							
> -							
	haddelta2	.8487513	.1160498	-1.20	0.230	.6492257	1.10959
> 7	islamist	.6077416	.0916883	-3.30	0.001	.4521688	.816840
> 6	territory	1.312554	.1663585	2.15	0.032	1.023841	1.68268
> 2	strongstart	.8803316	.112376	-1.00	0.318	.6854705	1.13058
> 7	oilstart	.9966258	.0052327	-0.64	0.520	.9864226	1.00693
> 5	youthstartap	1.02118	.0129959	1.65	0.100	.9960238	1.04697
> 2	muslimajstart	1.08643	.1211245	0.74	0.457	.873177	1.35176
> 4							
> -							

```

2013 .
2014 . estimates store HighChange

2015 .
2016 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(High Delta) title(Model Comparisons)

```

Model Comparisons				
Repl. Model				
Islamist claim	0.592 (0.088)**	0.647 (0.098)**	0.658 (0.096)**	0.608 (0.092)**
Territory	1.291 (0.159)*	1.465 (0.168)**	1.365 (0.169)*	1.313 (0.166)*
Strong rebels	0.874 (0.111)	0.901 (0.115)	0.917 (0.113)	0.880 (0.112)
Oil	0.996 (0.005)	0.998 (0.005)	0.998 (0.005)	0.997 (0.005)
Youth bulge/adult pop.	1.018 (0.012)	1.022 (0.013)+	1.022 (0.012)+	1.021 (0.013)+
Muslim majority	1.098 (0.121)	1.085 (0.116)	1.029 (0.114)	1.086 (0.121)
Had Change 1		0.625 (0.061)**		
Had Change 1.5			0.698 (0.080)**	
Had Change 2				0.849 (0.116)
N	1,020	1,020	1,020	1,020

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.


```

2017 .
2018 . * Model 3.C: With Two Year Lag:
2019 . * Change in framing in previous two years. Implies that framing changes are
      > not isn't happening right before big changes in conflict dynamics.
2020 .
2021 . stcox delta1_L2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =          167                      Number of obs =      931
No. of failures =          253
Time at risk    = 1,206.3284

Log pseudolikelihood = -790.40756                      Wald chi2(7) =  18.02
                                                    Prob > chi2  =  0.0119

```

(Std. err. adjusted for 167 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	

```

> —
2022 .
2023 . estimates store YearofChangeL2
2024 .
2025 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(YearofChangeL2) title(Model Comparisons)

```

Model Comparisons					
Repl. Model					
Islamist claim	0.592	0.647	0.658	0.608	0.654
	(0.088)**	(0.098)**	(0.096)**	(0.092)**	(0.106)**
Territory	1.291	1.465	1.365	1.313	1.346
	(0.159)*	(0.168)**	(0.169)*	(0.166)*	(0.204)+
Strong rebels	0.874	0.901	0.917	0.880	0.853
	(0.111)	(0.115)	(0.113)	(0.112)	(0.127)
Oil	0.996	0.998	0.998	0.997	0.997
	(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
Youth bulge/adult pop.	1.018	1.022	1.022	1.021	1.025
	(0.012)	(0.013)+	(0.012)+	(0.013)+	(0.016)
Muslim majority	1.098	1.085	1.029	1.086	1.062
	(0.121)	(0.116)	(0.114)	(0.121)	(0.143)
Had Change 1		0.625			
		(0.061)**			

```

Had Change |1.5|                                0.698
>
                                                (0.080)**
>
Had Change |2|                                0.849
>
                                                (0.116)
>
Change in Prev 2 years                        1.181
>
                                                (0.174)
>
N                1,020        1,020        1,020        1,020        931
>

```

```

> —
                + p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

```

2026 .
2027 . *Model 3.A: "Counter" that resets after a change:
2028 .
2029 . stcox counter $X1 if haddelta1==1 , cluster(dyadid) strata(order) nolog

```

```

        Failure _d: term==1
    Analysis time _t: (end_of_segment-origin)
        Origin: time first_year_of_con
Enter on or after: time start_of_segment
Exit on or before: time .
    ID variable: dyadid

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =      68                      Number of obs =    557
No. of failures =     119
Time at risk    = 698.3193

Wald chi2(6) = 12.67
Prob > chi2   = 0.0485

Log pseudolikelihood = -271.92931

```

```

                                (Std. err. adjusted for 68 clusters in dyadid
> )

```

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
counter		1.034904	.056847	0.62	0.532	.9292742 1.15254
territory		1.710005	.310639	2.95	0.003	1.197756 2.44132
strongstart		.6138772	.1660248	-1.80	0.071	.3613031 1.04301
oilstart		.981629	.008775	-2.07	0.038	.9645802 .998979
youthstartap		1.028863	.026427	1.11	0.268	.9783489 1.08198
muslimajstart		.9875122	.1609739	-0.08	0.939	.7174448 1.35924

```

> -

```

2030 .

2031 . estimates store YearsSinceLast

2032 .

2033 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(YearsSinceLast) title(Model Comparisons)

Model Comparisons

```

> _____
Repl. Model
>

```

Islamist claim	0.592	0.647	0.658	0.608	0.654
	(0.088)**	(0.098)**	(0.096)**	(0.092)**	(0.106)**
Territory	1.291	1.465	1.365	1.313	1.346
> 1.710	(0.159)*	(0.168)**	(0.169)*	(0.166)*	(0.204)+

> (0.311)**					
Strong rebels	0.874	0.901	0.917	0.880	0.853
> 0.614					
	(0.111)	(0.115)	(0.113)	(0.112)	(0.127)
> (0.166)+					
Oil	0.996	0.998	0.998	0.997	0.997
> 0.982					
	(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
> (0.009)*					
Youth bulge/adult pop.	1.018	1.022	1.022	1.021	1.025
> 1.029					
	(0.012)	(0.013)+	(0.012)+	(0.013)+	(0.016)
> (0.026)					
Muslim majority	1.098	1.085	1.029	1.086	1.062
> 0.988					
	(0.121)	(0.116)	(0.114)	(0.121)	(0.143)
> (0.161)					
Had Change 1		0.625			
>					
		(0.061)**			
>					
Had Change 1.5			0.698		
>					
			(0.080)**		
>					
Had Change 2				0.849	
>					
				(0.116)	
>					
Change in Prev 2 years					1.181
>					
					(0.174)
>					
Years From Change					
> 1.035					
> (0.057)					
N	1,020	1,020	1,020	1,020	931
> 557					

> _____

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```

2034 .
2035 .
2036 . //Model 4: Number of changes
2037 .
2038 . stcox numchanges islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: term==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_con
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

```

No. of subjects =      165                      Number of obs =      927
No. of failures =      251
Time at risk    = 1,198.3484

Wald chi2(7) = 36.72
Log pseudolikelihood = -776.719                Prob > chi2 = 0.0000

```

(Std. err. adjusted for 165 clusters in **dyadid**)

>)

		Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	numchanges	.7990292	.047043	-3.81	0.000	.7119475	.896762
> 2	islamist	.7522198	.1223897	-1.75	0.080	.5468275	1.03475
> 9	territory	1.412745	.2095598	2.33	0.020	1.056333	1.88941
> 3	strongstart	.8810315	.1259316	-0.89	0.376	.6657692	1.16589
> 4	oilstart	1.001429	.0057494	0.25	0.804	.9902235	1.01276
> 1	youthstartap	1.030887	.0171181	1.83	0.067	.9978759	1.06498
> 9	muslimajstart	.9833496	.1330457	-0.12	0.901	.7542957	1.28195
> 9							

> —

2039 . estimates store NumChanges

2040 .

2041 . outreg using termination-t1.doc, se var hr starlevels(10 5 1) sigsymbols(+,*
> ,**) note (Robust standard errors in parentheses clustered on dyad.) merge t
> ex frag ctitle(NumChanges) title(Model Comparisons)

Model Comparisons

> —————

Repl. Model

>

> —————

Islamist claim		0.592	0.647	0.658	0.608	0.654
>	0.752					
		(0.088)**	(0.098)**	(0.096)**	(0.092)**	(0.106)**
>	(0.122)+					
Territory		1.291	1.465	1.365	1.313	1.346
>	1.710	1.413				
		(0.159)*	(0.168)**	(0.169)*	(0.166)*	(0.204)+
>	(0.311)**	(0.210)*				
Strong rebels		0.874	0.901	0.917	0.880	0.853
>	0.614	0.881				
		(0.111)	(0.115)	(0.113)	(0.112)	(0.127)
>	(0.166)+	(0.126)				
Oil		0.996	0.998	0.998	0.997	0.997
>	0.982	1.001				
		(0.005)	(0.005)	(0.005)	(0.005)	(0.006)
>	(0.009)*	(0.006)				
Youth bulge/adult pop.		1.018	1.022	1.022	1.021	1.025
>	1.029	1.031				
		(0.012)	(0.013)+	(0.012)+	(0.013)+	(0.016)
>	(0.026)	(0.017)+				
Muslim majority		1.098	1.085	1.029	1.086	1.062
>	0.988	0.983				
		(0.121)	(0.116)	(0.114)	(0.121)	(0.143)
>	(0.161)	(0.133)				
Had Change 1			0.625			
>			(0.061)**			
>						
Had Change 1.5				0.698		
>						


```

2047 . set scheme lean2

2048 .
2049 . ** Figure 6 of Document **
2050 . coefplot(RepModel, label(Replication))(SmallChange, label(Low Change))(MedCh
    > ange, label(Med. Change))(HighChange, label(High Change)), drop(_cons) xline
    > (0) graphregion(color(white)) bgcolor(white)

2051 . graph export "TerminationCoefPlotUp.pdf", as(pdf) name("Graph") replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/T
        > erminationCoefPlotUp.pdf saved as PDF format

2052 .
2053 .
2054 . *Appendix Figure 11*
2055 . coefplot(SmallChange, label(Low Change))(YearofChangeL2, label(Two-Year Wind
    > ow))(YearsSinceLast, label(Years Since Change))(NumChanges, label(Change Fre
    > quency)), drop(_cons) xline(0)

2056 . graph export "TerminationCoefPlotExtUp.pdf", as(pdf) name("Graph") replace
    file /Users/Promachos/Dropbox
        (Personal)/TransformationEmpiricalModels/Replication/dataverse_files_2/T
        > erminationCoefPlotExtUp.pdf saved as PDF format

2057 .
2058 .
2059 . *****
2060 . *****
2061 . * Replication of Recurrance Models
2062 . * Manuscript Appendix Figures 14 and 15
2063 . *****
2064 .
2065 .

```

```

2066 . clear all

2067 . ssc install unique
      checking unique consistency and verifying not already installed...
      all files already exist and are up to date.

2068 . ssc install blindschemes, replace all
      checking blindschemes consistency and verifying not already installed...
      all files already exist and are up to date.

2069 . ssc install outreg
      checking outreg consistency and verifying not already installed...
      all files already exist and are up to date.

2070 . ssc install outreg2
      checking outreg2 consistency and verifying not already installed...
      all files already exist and are up to date.

2071 .
2072 .
2073 . *load data:
2074 .
2075 . use "recurrenceplus.dta"

2076 .
2077 . sort dyadid year

2078 .
2079 .
2080 . *****
2081 . * STSET FOR SURVIVAL ANALYSIS RECURRENCE as DV
2082 . *****
2083 .
2084 . stset end_of_segment, id(dyadid) origin(time first_year_of_peace) enter(time
      > start_of_segment) failure(firstrecur==1) exit(time .)

```

Survival-time data settings

```

          ID variable: dyadid
          Failure event: firstrecur==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
          Enter on or after: time start_of_segment
          Exit on or before: time .
          Time for analysis: (time-origin)
                        Origin: time first_year_of_peace

```

6,236	total observations	
0	exclusions	

6,236	observations remaining, representing	
367	subjects	
147	failures in multiple-failure-per-subject data	
6,436.326	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

2085 .
2086 . *****
2087 . * STSET FOR SURVIVAL ANALYSIS NEW-RECURRENCE as DV
2088 . *****
2089 .
2090 . stset end_of_segment, id(dyadid) origin(time first_year_of_peace) enter(time
> start_of_segment) failure(newrecur1==1) exit(time .)

```

Survival-time data settings

```

ID variable: dyadid
Failure event: newrecur1==1
Observed time interval: (end_of_segment[_n-1], end_of_segment]
Enter on or after: time start_of_segment
Exit on or before: time .
Time for analysis: (time-origin)
Origin: time first_year_of_peace

```

6,236	total observations	
0	exclusions	

6,236	observations remaining, representing	
367	subjects	
52	failures in multiple-failure-per-subject data	
6,436.326	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

2091 .
2092 . *****
2093 . * CREATE LABELS
2094 . *****
2095 .
2096 . label variable firstrecur "Recurrence"

2097 . label variable newrecur1 "Recurrence-new"

2098 . label variable islamist "Islamist claim"

2099 . label variable delta1 "Change Year"

2100 . label variable delta1_L2 "Change in Two Years"

2101 . label variable haddelta1 "Had Change |1|"

2102 . label variable haddelta15 "Had Change |1.5|"

2103 . label variable haddelta2 "Had Change |2|"

2104 . label variable ambig25 "Ambiguity |.25|"

2105 . label variable ambig50 "Ambiguity |.5|"

2106 . label variable territory "Territory"

2107 . label variable duration "Duration"

2108 . label variable intensitylevel "War"

2109 . label variable number_group "Number of groups"

2110 . label variable transstart "Transnational constituency"

```

2111 . label variable forinvstart "Foreign involvement"

2112 . label variable strongstart "Strong rebels"

2113 . label variable pa "Peace agreement"

2114 . label variable ca "Ceasefire agreement"

2115 . label variable lowcease "Low activity"

2116 .

2117 . label variable gov v "Government victory"

2118 . label variable rebv "Rebel victory"

2119 . label variable pko "Peacekeeping presence"

2120 . label variable anostart "Anocracy"

2121 . label variable lngdppcstart "GDP per capita"

2122 . label variable lnpopstart "Population"

2123 . label variable muslimajstart "Muslim majority"

2124 . label variable oilstart "Oil"

2125 . label variable youthstartap "Youth bulge/adult pop."

2126 . label variable muslimid "Muslim identity"

2127 .

2128 . label variable foreignfighter "Foreign fighters"

```

2129 . label variable govmlsupport "Government support"

2130 . label variable leftist "Leftist"

2131 . label variable nonislamistrel "Non-Islamist religious claims"

2132 . label variable muslimid "Muslim identity"

2133 .
2134 . label variable anocracy "Anocracy over time"

2135 . label variable lngdppc "GDP pc over time"

2136 . label variable lnpop "Population over time"

2137 . label variable secsup_govgov "Government secondary support"

2138 . label variable rebext "Rebel support"

2139 .
2140 .
2141 . *****
2142 . * CONTROL VARIABLES
2143 . *****
2144 .
2145 . global X1 territory strongstart oilstart youthstartap muslimajstart

2146 . global X2 _yrs _yrs_sq _yrs_cu

2147 .
2148 .
2149 . *****
2150 . * Appendix Figure 15
2151 . *****

```

```

2152 .
2153 . //Model 1//
2154 .
2155 . stset end_of_segment, id(dyadid) origin(time first_year_of_peace) enter(time
> start_of_segment) failure(firstrecur==1) exit(time .)

```

Survival-time data settings

```

        ID variable: dyadid
        Failure event: firstrecur==1
Observed time interval: (end_of_segment[_n-1], end_of_segment)
Enter on or after: time start_of_segment
Exit on or before: time .
Time for analysis: (time-origin)
        Origin: time first_year_of_peace

```

6,236	total observations	
0	exclusions	

6,236	observations remaining, representing	
367	subjects	
147	failures in multiple-failure-per-subject data	
6,436.326	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	0
	Last observed exit t =	38.98999

```

2156 .
2157 . *Model 2*
2158 .
2159 . ** Base model specification:
2160 . stcox islamist $X1, cluster(dyadid) strata(order) nolog

```

```

        Failure _d: firstrecur==1
        Analysis time _t: (end_of_segment-origin)
            Origin: time first_year_of_peace
Enter on or after: time start_of_segment
Exit on or before: time .
        ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

	(0.022)*
Muslim majority	0.661
	(0.183)
N	5,554

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

2162 .

2163 . ** Adding delta1 measure:

2164 . stcox haddelta1 islamist \$X1, cluster(dyadid) strata(order) nolog

Failure _d: firstrecur==1
 Analysis time _t: (end_of_segment-origin)
 Origin: time first_year_of_peace
 Enter on or after: time start_of_segment
 Exit on or before: time .
 ID variable: dyadid

Stratified Cox regression with Breslow method for ties
 Strata variable: order

No. of subjects =	166	Number of obs =	2,427
No. of failures =	120		
Time at risk =	2,604.3584		
		Wald chi2(7) =	42.77
Log pseudolikelihood =	-422.11575	Prob > chi2 =	0.0000

(Std. err. adjusted for 166 clusters in dyadid)

>)

	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval
> -						
>]						
> -						
haddelta1		1.262275	.2799253	1.05	0.294	.8173146 1.94947
> 9						
islamist		1.659183	.3640426	2.31	0.021	1.079273 2.55068
> 6						
territory		2.501348	.7635606	3.00	0.003	1.375107 4.55000
> 2						
strongstart		.6540891	.3275181	-0.85	0.397	.2451433 1.74523
> 5						

```

      oilstart |    1.011076    .0114849    0.97    0.332    .9888144    1.03383
> 8
      youthstartap |    1.06758    .0235255    2.97    0.003    1.022452    1.11469
> 9
      muslimajstart |    .7059669    .2051337    -1.20    0.231    .3994382    1.24772
> 6

```

```

> -

```

```

2165 . outreg using recurrence-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,* ,
> **) note (Robust standard errors in parentheses clustered on dyad.) merge te
> x frag ctitle(Small Change)

```

Base Model		
Islamist claim	2.052 (0.472)**	1.659 (0.364)*
Territory	2.481 (0.648)**	2.501 (0.764)**
Strong rebels	0.774 (0.395)	0.654 (0.328)
Oil	1.021 (0.011)+	1.011 (0.011)
Youth bulge/adult pop.	1.055 (0.022)*	1.068 (0.024)**
Muslim majority	0.661 (0.183)	0.706 (0.205)
Had Change 1		1.262 (0.280)
N	5,554	2,427

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

2166 .
2167 . capture drop sch* sca*

2168 . stcox haddelta1 islamist $X1, cluster(dyadid) strata(order) scaledsch(sca*)
> schoenfeld(sch*) nohr

```

```

      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_peace
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

```

Iteration 0: Log pseudolikelihood = -438.85301
Iteration 1: Log pseudolikelihood = -422.30787
Iteration 2: Log pseudolikelihood = -422.1159
Iteration 3: Log pseudolikelihood = -422.11575
Refining estimates:
Iteration 0: Log pseudolikelihood = -422.11575

```

```

Stratified Cox regression with Breslow method for ties
Strata variable: order

```

```

No. of subjects =      166                      Number of obs =  2,427
No. of failures =      120
Time at risk    = 2,604.3584

Wald chi2(7) = 42.77
Log pseudolikelihood = -422.11575              Prob > chi2 = 0.0000

```

(Std. err. adjusted for 166 clusters in dyadid)

```
> )
```

		Coefficient	Robust std. err.	z	P> z	[95% conf. interval	
> -	_t						
>]							
> -	haddelta1	.2329154	.2217625	1.05	0.294	-.2017312	.66756
> 2	islamist	.5063253	.2194108	2.31	0.021	.0762881	.936362
> 5	territory	.9168296	.3052597	3.00	0.003	.3185316	1.51512
> 8	strongstart	-.4245116	.5007239	-0.85	0.397	-1.405912	.556889
> 2							

```

      oilstart |      .0110147      .011359      0.97      0.332      -.0112486      .03327
> 8
    youthstartap |      .065394      .0220363      2.97      0.003      .0222037      .108584
> 3
    muslimajstart |     -.3481869      .2905713      -1.20      0.231      -.9176962      .221322
> 3

```

```

> -

```

2169 . stphtest, rank detail

Test of proportional-hazards assumption

Time function: Rank of analysis time

	rho	chi2	df	Prob>chi2
haddelta1	0.06994	1.26	1	0.2623
islamist	0.17702	6.20	1	0.0128
territory	-0.11182	3.47	1	0.0626
strongstart	0.17649	9.03	1	0.0027
oilstart	0.02288	0.07	1	0.7890
youthstartap	-0.16721	4.37	1	0.0366
muslimajst~t	-0.00050	0.00	1	0.9942
Global test		12.94	7	0.0736

Note: Robust variance-covariance matrix used.

2170 .

2171 . ** Adding delta1.5 measure:

2172 . stcox haddelta15 islamist \$X1, cluster(dyadid) strata(order) nolog

```

      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
      Origin: time first_year_of_peace
      Enter on or after: time start_of_segment
      Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties

Strata variable: **order**

No. of subjects = 166 Number of obs = 2,427
 No. of failures = 120
 Time at risk = 2,604.3584

Wald chi2(7) = 45.10
 Prob > chi2 = 0.0000

Log pseudolikelihood = -421.69455

(Std. err. adjusted for 166 clusters in dyadid

>)

> -							
	_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf. interval	
>]							
> -							
	haddelta15	1.351236	.3120814	1.30	0.192	.8592862	2.12483
> 3							
	islamist	1.648099	.364532	2.26	0.024	1.068345	2.54246
> 4							
	territory	2.396401	.7793992	2.69	0.007	1.266826	4.5331
> 7							
	strongstart	.6320441	.3080557	-0.94	0.347	.2431505	1.64293
> 2							
	oilstart	1.011664	.0113687	1.03	0.302	.9896251	1.03419
> 3							
	youthstartap	1.06567	.0246439	2.75	0.006	1.018447	1.11508
> 3							
	muslimajstart	.7081571	.2071079	-1.18	0.238	.3991967	1.25623
> 9							
> -							

2173 . outreg using recurrence-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
 > **) note (Robust standard errors in parentheses clustered on dyad.) merge te
 > x frag ctitle(Medium Change)

Base Model			
Islamist claim	2.052 (0.472)**	1.659 (0.364)*	1.648 (0.365)*
Territory	2.481 (0.648)**	2.501 (0.764)**	2.396 (0.779)**
Strong rebels	0.774 (0.395)	0.654 (0.328)	0.632 (0.308)
Oil	1.021 (0.011)+	1.011 (0.011)	1.012 (0.011)
Youth bulge/adult pop.	1.055 (0.022)*	1.068 (0.024)**	1.066 (0.025)**
Muslim majority	0.661 (0.183)	0.706 (0.205)	0.708 (0.207)
Had Change 1		1.262 (0.280)	
Had Change 1.5			1.351 (0.312)
N	5,554	2,427	2,427

+ p<0.1; * p<0.05; ** p<0.01

Robust standard errors in parentheses clustered on dyad.

```

2174 .
2175 . ** Adding delta2 measure:
2176 . stcox haddelta2 islamist $X1, cluster(dyadid) strata(order) nolog

```

```

      Failure _d: firstrecur==1
      Analysis time _t: (end_of_segment-origin)
                   Origin: time first_year_of_peace
Enter on or after: time start_of_segment
Exit on or before: time .
      ID variable: dyadid

```

Stratified Cox regression with Breslow method for ties
Strata variable: **order**

No. of subjects =	166	Number of obs =	2,427
No. of failures =	120		
Time at risk =	2,604.3584		
Log pseudolikelihood =	-422.35015	Wald chi2(7) =	37.63
		Prob > chi2 =	0.0000

```

                                (Std. err. adjusted for 166 clusters in dyadid
> )
> -
      _t | Haz. ratio   Robust      z   P>|z|   [95% conf. interval
> ]
> -
      haddelta2 |   1.224783   .2829346   0.88   0.380   .7787983   1.92616
> 5
      islamist |   1.711339   .3821257   2.41   0.016   1.104767   2.65094
> 9
      territory |   2.515991   .7741186   3.00   0.003   1.376613   4.59839
> 5
      strongstart | .6591709   .3332502  -0.82   0.410   .2447174   1.77554
> 3
      oilstart |   1.011238   .0111827   1.01   0.312   .9895559   1.03339
> 5
      youthstartap | 1.066677   .023481   2.93   0.003   1.021634   1.11370
> 6
      muslimajstart | .688432   .2061222  -1.25   0.212   .3828284   1.23799
> 2
> -

```

```

2177 . outreg using recurrence-t1.tex, se var hr starlevels(10 5 1) sigsymbols(+,*
> **) note (Robust standard errors in parentheses clustered on dyad.) merge te
> x frag ctitle(High Change)

```

Base Model				
Islamist claim	2.052 (0.472)**	1.659 (0.364)*	1.648 (0.365)*	1.711 (0.382)*
Territory	2.481 (0.648)**	2.501 (0.764)**	2.396 (0.779)**	2.516 (0.774)**
Strong rebels	0.774 (0.395)	0.654 (0.328)	0.632 (0.308)	0.659 (0.333)
Oil	1.021 (0.011)+	1.011 (0.011)	1.012 (0.011)	1.011 (0.011)
Youth bulge/adult pop.	1.055 (0.022)*	1.068 (0.024)**	1.066 (0.025)**	1.067 (0.023)**
Muslim majority	0.661 (0.183)	0.706 (0.205)	0.708 (0.207)	0.688 (0.206)
Had Change 1		1.262		

			(0.280)	
Had Change 1.5			1.351	
			(0.312)	
Had Change 2			1.225	
			(0.283)	
N	5,554	2,427	2,427	2,427

+ p<0.1; * p<0.05; ** p<0.01
Robust standard errors in parentheses clustered on dyad.

```
2178 .
      end of do-file

2179 . log close
      name: <unnamed>
      log: /Users/Promachos/Dropbox (Personal)/TransformationEmpiricalModels
> /Replication/dataverse_files_2/STC_STATA_Log.smcl
      log type: smcl
      closed on: 26 Apr 2024, 15:58:16
```