**Online appendix**

For article (Economic Crisis, Bureaucratic Quality, and Democratic Breakdown) published in *Government and Opposition*

*Authors: David Andersen and Suthan Krishnarajan*

**Appendix A: Democratic breakdowns in the analysis**

|  |  |
| --- | --- |
| **Country** | **Year of breakdown** |
| Albania | 1996 |
| Argentina | 1931 |
| Argentina | 1962 |
| Argentina | 1966 |
| Argentina | 1976 |
| Austria | 1933 |
| Bangladesh | 2007 |
| Belarus | 1994 |
| Bolivia | 1980 |
| Brazil | 1964 |
| Burma | 1958 |
| Burma | 1962 |
| Central African Republic | 2003 |
| Chile | 1925 |
| Chile | 1973 |
| Colombia | 1948 |
| Cuba | 1953 |
| Ecuador | 1963 |
| Ecuador | 2000 |
| France | 1940 |
| Gambia | 1994 |
| Germany | 1933 |
| Ghana | 1972 |
| Ghana | 1981 |
| Greece | 1915 |
| Greece | 1936 |
| Greece | 1967 |
| Guatemala | 1954 |
| Guatemala | 1963 |
| Guatemala | 1982 |
| Guinea-Bissau | 1998 |
| Honduras | 1963 |
| Honduras | 1972 |
| Honduras | 2009 |
| Indonesia | 1957 |
| Italy | 1922 |
| Laos | 1959 |
| Lebanon | 1976 |
| Madagascar | 2009 |
| Mozambique | 2004 |
| Nepal | 2002 |
| Niger | 1996 |
| Niger | 2009 |
| Nigeria | 1966 |
| Nigeria | 1983 |
| Pakistan | 1977 |
| Pakistan | 1999 |
| Panama | 1951 |
| Panama | 1968 |
| Peru | 1962 |
| Peru | 1968 |
| Peru | 1990 |
| Philippines | 1965 |
| Portugal | 1926 |
| Republic of the Congo | 1963 |
| Russia | 1999 |
| Sierra Leone | 1967 |
| Somalia | 1969 |
| South Korea | 1961 |
| Spain | 1937 |
| Sri Lanka | 1977 |
| Sri Lanka | 2010 |
| Sudan | 1958 |
| Sudan | 1969 |
| Sudan | 1989 |
| Thailand | 1976 |
| Thailand | 1991 |
| Thailand | 2006 |
| Turkey | 1980 |
| Uganda | 1985 |
| Uruguay | 1934 |
| Uruguay | 1973 |
| Venezuela | 2005 |

**Appendix B: Descriptive statistics of variables in main sample**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variable** | **Obs** | **Mean** | **Std. Dev.** | **Min** | **Max** |
| Democratic breakdown | 1,545 | 0.047 | 0.212 | 0 | 1 |
| Economic crisis | 1,545 | 0.419 | 0.494 | 0 | 1 |
| Bureaucratic quality | 1,545 | 0.726 | 1.265 | -2.980 | 3.956 |
| GDP/Cap (log) | 1,545 | 8.214 | 0.918 | 6.041 | 10.109 |
| Population size (log) | 1,545 | 9.600 | 1.249 | 6.163 | 12.365 |
| Regional democracy level | 1,545 | 0.503 | 0.210 | 0.150 | 0.897 |
| Educational equality | 1,545 | 0.291 | 1.387 | -2.694 | 3.207 |
| Ongoing conflict | 1,545 | 0.085 | 0.279 | 0 | 1 |
| Democracy level | 1,545 | 0.601 | 0.216 | 0.058 | 0.956 |
| Corruption | 1,545 | 0.431 | 0.261 | 0.020 | 0.900 |
| Party Linkages | 1,545 | 0.452 | 1.185 | -2.964 | 3.117 |
| Judicial accountability | 1,545 | 0.279 | 1.195 | -2.340 | 3.081 |

**Appendix C: Logit regressions of democratic breakdowns, 1903–2010, alternative crisis specifications (10-year benchmark)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Base model** | | **Main model** | | **Good governance** | | **Year F-E** | | **LPM model** | |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|  |  |  |  |  |  |  |  |  |  |  |
| Economic crisis t-1 | 1.032\*\* (0.411) | 1.331\*\*\* (0.442) | 1.075\*\* (0.431) | 1.391\*\*\* (0.467) | 0.961\*\* (0.442) | 1.301\*\*\* (0.483) | 1.511\*\* (0.608) | 1.981\*\*\* (0.659) | 0.001 (0.006) | 0.011 (0.008) |
|  |  |  |  |  |  |  |  |  |  |  |
| Bureaucratic quality t-1 | -2.049\*\*\* (0.397) | -1.549\*\*\* (0.422) | -1.702\*\*\* (0.429) | -1.277\*\*\* (0.456) | -1.506\*\*\* (0.522) | -1.017\* (0.563) | -1.768\*\*\* (0.644) | -1.203\* (0.681) | -0.013\*\* (0.006) | -0.011\* (0.006) |
|  |  |  |  |  |  |  |  |  |  |  |
| Crisis t-1 \* Bur. qual. t-1 |  | -1.191\*\*\* (0.450) |  | -1.150\*\* (0.470) |  | -1.232\*\* (0.507) |  | -1.541\*\* (0.620) |  | -0.008\* (0.004) |
|  |  |  |  |  |  |  |  |  |  |  |
| GDP/Cap (log) t-1 | -0.155 (0.777) | -0.425 (0.782) | 0.109 (0.904) | -0.027 (0.902) | 0.214 (0.925) | 0.106 (0.943) | -0.877 (1.409) | -0.637 (1.367) | -0.019 (0.013) | -0.020 (0.013) |
|  |  |  |  |  |  |  |  |  |  |  |
| Population size (log) t-1 | 2.530\* (1.418) | 2.798\* (1.442) | 3.156\*\* (1.470) | 3.246\*\* (1.487) | 3.039\*\* (1.533) | 3.090\*\* (1.541) | 4.048\* (2.250) | 4.618\*\* (2.287) | -0.008 (0.014) | -0.009 (0.014) |
|  |  |  |  |  |  |  |  |  |  |  |
| Regional democracy level t-1 |  |  | -6.475 (5.336) | -3.878 (5.474) | -6.826 (5.727) | -4.241 (5.890) | -12.436 (8.219) | -8.385 (8.464) | -0.012 (0.061) | -0.014 (0.061) |
|  |  |  |  |  |  |  |  |  |  |  |
| Educational equality t-1 |  |  | -1.188\*\* (0.508) | -1.211\*\* (0.532) | -1.145\*\* (0.538) | -1.243\*\* (0.559) | -1.193\* (0.667) | -1.226\* (0.721) | -0.005 (0.006) | -0.005 (0.006) |
|  |  |  |  |  |  |  |  |  |  |  |
| Ongoing conflict t-1 |  |  | 0.170 (0.610) | 0.186 (0.613) | 0.375 (0.616) | 0.414 (0.624) | 0.520 (0.760) | 0.599 (0.779) | 0.016 (0.013) | 0.015 (0.013) |
|  |  |  |  |  |  |  |  |  |  |  |
| Democracy level t-1 |  |  |  |  | -3.019 (2.327) | -2.164 (2.382) | -4.562 (2.869) | -4.513 (2.914) | -0.066\*\* (0.031) | -0.063\*\* (0.031) |
|  |  |  |  |  |  |  |  |  |  |  |
| Corruption t-1 |  |  |  |  | -4.586 (4.541) | -3.228 (4.624) | -1.774 (5.510) | 0.416 (5.753) | 0.017 (0.050) | 0.024 (0.050) |
|  |  |  |  |  |  |  |  |  |  |  |
| Party Linkages t-1 |  |  |  |  | 0.008 (0.469) | 0.122 (0.479) | -0.010 (0.555) | 0.317 (0.608) | 0.014\*\* (0.006) | 0.015\*\* (0.006) |
|  |  |  |  |  |  |  |  |  |  |  |
| Judicial accountability t-1 |  |  |  |  | -1.536\*\* (0.739) | -1.787\*\* (0.805) | -1.610\*\* (0.800) | -1.704\* (0.887) | -0.004 (0.008) | -0.004 (0.008) |
|  |  |  |  |  |  |  |  |  |  |  |
| Constant |  |  |  |  |  |  |  |  | 0.264 (0.187) | 0.267 (0.187) |
| N | 1545 | 1545 | 1545 | 1545 | 1545 | 1545 | 1545 | 1545 | 3858 | 3858 |
| # of breakdowns | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| Country fixed effects | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| World order dummies | Y | Y | Y | Y | Y | Y |  |  |  |  |
| Decade dummies | Y | Y | Y | Y | Y | Y |  |  |  |  |
| Year dummies |  |  |  |  |  |  | Y | Y | Y | Y |
| Time polynomials t, t2, t3 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |

**Note: Standard errors are in parentheses. \* *p* < 0.10, \*\* *p* < 0.05, \*\*\* *p* < 0.01.**

**Appendix D: Logit regressions of democratic breakdowns, 1946–2008, alternative democratic breakdown specifications**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Base model** | | **Main model** | | **Good governance** | | **Year F-E** | | **LPM model** | | **Annual growth rates** | |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Economic crisis t-1 | 1.937\*\*\* (0.607) | 1.979\*\*\* (0.701) | 2.860\*\*\* (0.774) | 3.081\*\*\* (0.808) | 2.681\*\*\* (0.775) | 2.972\*\*\* (0.847) | 3.715\*\*\* (1.105) | 3.515\*\*\* (1.340) | 0.006 (0.007) | 0.017\* (0.009) | -0.001\*\* (0.001) | -0.003\*\*\* (0.001) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bureaucratic quality t-1 | -1.456\*\*\* (0.473) | -0.777 (0.572) | -1.016\*\* (0.502) | -0.045 (0.623) | -2.107\*\*\* (0.773) | -1.623\* (0.898) | -3.621\*\*\* (1.282) | -2.290 (1.500) | -0.026\*\*\* (0.007) | -0.022\*\*\* (0.007) | -0.025\*\*\* (0.007) | -0.029\*\*\* (0.007) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crisis t-1 \* Bur. qual. t-1 |  | -1.535\*\*\* (0.579) |  | -2.276\*\*\* (0.610) |  | -3.007\*\*\* (0.752) |  | -4.258\*\*\* (1.569) |  | -0.010\*\* (0.005) |  | 0.001\*\*\* (0.000) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| GDP/Cap (log) t-1 | 0.938 (0.919) | 0.249 (0.935) | -2.754\* (1.504) | -4.864\*\*\* (1.467) | -3.340\*\* (1.664) | -6.776\*\*\* (1.796) | -3.482 (2.234) | -7.121\*\* (2.891) | -0.009 (0.016) | -0.009 (0.016) | -0.012 (0.016) | -0.012 (0.016) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Population size (log) t-1 | 0.350 (1.847) | 0.747 (1.882) | 1.290 (2.265) | 1.355 (2.422) | -0.418 (2.852) | 0.640 (3.046) | -5.199 (5.661) | 0.060 (6.314) | -0.005 (0.020) | -0.007 (0.020) | -0.006 (0.020) | -0.012 (0.020) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Regional democracy level t-1 |  |  | -40.022\*\*\* (10.191) | -54.013\*\*\* (11.726) | -42.029\*\*\* (11.222) | -73.015\*\*\* (15.487) | -46.049\*\*\* (15.891) | -92.406\*\*\* (28.643) | -0.054 (0.070) | -0.061 (0.070) | -0.052 (0.070) | -0.050 (0.070) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Educational equality t-1 |  |  | 0.930 (0.609) | 1.674\*\* (0.738) | 0.925 (0.742) | 1.608\* (0.887) | 1.253 (0.999) | 3.114\* (1.606) | -0.006 (0.007) | -0.006 (0.007) | -0.006 (0.007) | -0.007 (0.007) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ongoing conflict t-1 |  |  | -0.947 (0.840) | -0.330 (0.928) | -1.347 (0.957) | -0.283 (1.062) | -3.283\*\* (1.413) | -1.938 (1.793) | 0.009 (0.013) | 0.008 (0.013) | 0.009 (0.013) | 0.009 (0.013) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Democracy level t-1 |  |  |  |  | 1.330 (3.532) | 4.496 (3.809) | -1.822 (4.612) | 6.787 (6.039) | -0.003 (0.038) | -0.001 (0.038) | -0.008 (0.038) | -0.005 (0.038) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Corruption t-1 |  |  |  |  | -11.136\* (6.678) | -17.799\*\* (8.551) | -20.197\*\* (9.793) | -21.940\* (12.675) | -0.058 (0.054) | -0.054 (0.054) | -0.053 (0.054) | -0.041 (0.054) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Party Linkages t-1 |  |  |  |  | 0.481 (0.676) | 0.120 (0.806) | 0.833 (0.860) | 0.650 (1.021) | 0.014\* (0.008) | 0.014\* (0.008) | 0.014\* (0.008) | 0.015\* (0.008) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Judicial accountability t-1 |  |  |  |  | -2.180\*\* (0.923) | -3.001\*\*\* (1.024) | -4.623\*\*\* (1.583) | -5.934\*\*\* (2.219) | -0.000 (0.009) | 0.000 (0.009) | -0.001 (0.008) | 0.000 (0.008) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Constant |  |  |  |  |  |  |  |  | 0.177 (0.251) | 0.192 (0.251) | 0.214 (0.248) | 0.257 (0.248) |
| N | 816 | 816 | 816 | 816 | 816 | 816 | 816 | 816 | 2873 | 2873 | 2873 | 2873 |
| # of breakdowns | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| Country fixed effects | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| World order dummies | Y | Y | Y | Y | Y | Y |  |  |  |  |  |  |
| Decade dummies | Y | Y | Y | Y | Y | Y |  |  |  |  |  |  |
| Year dummies |  |  |  |  |  |  | Y | Y | Y | Y | Y | Y |
| Time polynomials t, t2, t3 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |

**Note: Standard errors are in parentheses. \* *p* < 0.10, \*\* *p* < 0.05, \*\*\* *p* < 0.01.**