**Online appendix**

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

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**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.**