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## Lock, stock, and barrel: A comprehensive assessment of the determinants of terror

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# Lock, Stock, and Barrel: A Comprehensive Assessment of the Determinants of Terror

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# Lock, Stock, and Barrel: A Comprehensive Assessment of the Determinants of Terror

## Abstract

We assess the robustness of previous findings on the determinants of terrorism. Using extreme bound analysis, the three most comprehensive terrorism datasets, and focusing on the three most commonly analyzed aspects of terrorist activity, i.e., location, victim, and perpetrator, we re-assess the effect of 65 proposed correlates. Evaluating around 13.4 million regressions, we find 18 variables to be robustly associated with the number of incidents occurring in a given country-year, 15 variables with attacks against citizens from a particular country in a given year, and six variables with attacks perpetrated by citizens of a particular country in a given year.

JEL-Code: D740, F510, F520, H560, K420.

Keywords: causes of terrorism, poverty and terrorism, panel estimations, extreme bounds analysis.

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## 1. Introduction

Why? Why us? Heinous terrorist attacks create an urge to understand the causes of terrorism. Insights can be gained by examining the correlates of terrorism at the country level. The tragic events of September 11, 2001 and the recent wave of terrorist attacks have triggered a vast amount of empirical research in this vein. However, only very few robust findings have emerged so far and there is no consensus on the causes of terrorism. Previous studies differ along various dimensions, most notably the set of explanatory variables, the terror dataset used, the estimation technique, the period considered, and the aspect of terrorism analyzed. Therefore, it is difficult to weed out contradictions and inconsistencies.

This paper takes stock of the literature and re-assesses the effect of most suggested variables using a consistent set of data and methods. We apply extreme bound analysis (EBA) as suggested by Leamer (1983) and Levine and Renelt (1992) and modified by Sala-i-Martin (1997) to test the robustness of 65 proposed correlates. We estimate the effects using the three most comprehensive datasets (ITERATE, Global Terrorism Database (GTD), and Memorial Institute for the Prevention of Terrorism (MIPT)) and focusing on the three key aspects (location, victim, and perpetrator) of terrorism. This exercise yields results on two fronts: First, it allows us to find truly robust correlates – if there are any. Second, it reveals the reasons behind the contradictions in the current literature. In this way, the paper provides policy relevant information and helps to place future research in the field on a firmer base.

Evaluating around 6.8 million regressions with the number of terrorist attacks occurring in a particular country and year, we find that economic freedom, physical integrity rights, law and order, and infant mortality rates are negatively associated with terrorism, while population, military expenditures and personnel, internal and internationalized internal wars, guerrilla wars, strikes, government fractionalization, urbanization, foreign portfolio investments, OECD membership, political proximity to the United States as well as religious and ethnic tensions are positively associated with the occurrence of terrorism.

Around 4.5 million regressions with the number of terrorist attacks against citizens from a particular country reveal a similar set of robust correlates: Economic freedom, physical integrity rights, primary goods exports, large population shares of young people, are negatively related to terrorism – GDP per capita, population, military expenditures, internal and internationalized internal wars, guerrilla wars, OECD membership, political proximity to the United States, and religious and ethnic tension are positively related to terrorism.

Finally, a relatively small number of variables are robustly associated with the number of terrorist attacks perpetrated by the citizens of a particular country. According to around 2.2

million regressions, these are economic freedom, physical integrity rights, and the number of telephone mainlines (all negatively associated) as well as internationalized wars and centrist governments (positively associated).

The short list of robust correlates implies that some of the findings are specific to the context – the dataset, the empirical model or both. Significant determinants in plausible and well-specified models turn insignificant when faced with the rigors of being tested alongside many other plausible variables.

However, four caveats are in order. First, some variables may fail our test because they are poor proxies for otherwise strong theories of terrorism. Second, for some of the theories put to the test, some of the variables in the vector of controls are “bad controls,” i.e., some of the variables might just as well be outcome or mediator variables in the notional experiment at hand (Angrist and Pischke 2009: 64-69). Third, our empirical setup forces us to restrict ourselves to reduced form estimations. Thus we cannot account for any structural relationships. Finally, some of the regressors are arguably endogenous because of omitted variables, simultaneity, measurement errors in regressors or sample selection bias. The resulting inconsistencies may affect the parameter estimates for all variables in the model.<sup>1</sup>

Where does all this leave us? On the positive side, our analysis uncovers some truly robust correlates. These correlates should prominently feature in future theoretical and empirical work on terrorism. On the negative side, our results show just how sensitive are some of the previously reported results. Empirical research on terrorism would greatly gain, therefore, if empirical models are rigorously justified and if the robustness of results is systematically assessed.

The paper proceeds as follows. Section 2 provides a brief review of the literature to set the stage for the empirical analysis. Section 3 describes the details of the empirical method and section 4 presents the results. Section 5 concludes.

## **2. Background**

Empirical terrorism research is a growth industry. A comprehensive literature review is, therefore, beyond the scope of this paper.<sup>2</sup> Instead, we outline the main lines of research in the

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<sup>1</sup> See, e.g., Hoover and Perez (2004) for a critique of the EBA.

<sup>2</sup> For an overview and further references on the economics of terrorism, see, e.g., Sandler and Enders (2004; 2008), Enders and Sandler (2006a), Frey et al. (2007), Enders (2007), Krueger (2007), and Sandler and Arce (2007).

field. Table A1 in the Appendix reports the details such as sample period and size, terrorist indicator and dataset, estimation technique, and main findings of 43 studies. Terrorist attacks can be assigned to countries on the basis of location, victim or perpetrator. Studies using multiple aspects of terrorism are listed multiple times in Table A1 in the Appendix.

A long-standing question concerns the relationship between terrorism and democracy (among others, Crenshaw 1981; Sandler 1995; Enders and Sandler 2006a). Two opposing views have been put forward. On the one hand, the intrinsic freedoms and respect for civil liberties of democratic societies are enabling and permissive factors providing a favorable environment for terrorism. On the other hand, democracies allow dissenters to express their grievances by legal and peaceful means. There are, thus, two countervailing effects of democracy: Democracy lowers the direct costs of waging terrorist campaigns, but at the same time increases relative costs (Frey and Luechinger 2003).

In a pioneering study, Eubank and Weinberg (1994) took these competing hypotheses to the data. They found that democracies are more likely to harbor terrorist groups than autocracies. However, the number of terrorist groups is a poor measure for terrorist activity and prone to reporting bias (e.g., Sandler 1995). According to two follow-up studies (Eubank and Weinberg 2001; Weinberg and Eubank 1998), there is a positive or a U-shaped relationship between the degree of democracy and the number of terrorist incidents in a country if incidents are assigned to countries based on the *location* of the incidence, a positive relationship if incidents are assigned to countries based on nationality of *victims* and an inverted U-shaped relationship if incidents are assigned to countries based on nationality of *perpetrators*. These results highlight two important ideas. First, it is important to differentiate between location- and perpetrator-aspects of terrorism (see also Basuchoudhary and Shughart 2010). Arguably, the enabling and permissive factors of democracy are relevant regarding where an attack takes place while the factors of political access are relevant regarding who resorts to terrorism. Second, given the countervailing factors of democracy, the relationship between terrorism and democracy may well be non-linear.

Of the 43 studies reviewed for this paper, 40 include some measure of democracy (e.g., Blomberg and Hess 2008b; Blomberg and Rosendorff 2009; Drakos and Gofas 2006b; Eyerman 1998; Li 2005; Piazza 2008b), political rights (e.g., Abadie 2006) or civil liberties (e.g., Krueger and Laitin 2008; Krueger and Maleckova 2003). Taking a broad-brush view, terrorism seems to be positively associated with democracy in studies on terror-locations and negatively in studies on perpetrators. However, there are a number of studies with contradictory findings and many others find no significant relationship at all. Several studies

model non-linear effects by including squared terms. Since the usual test statistics are invalid for interaction terms and, thus, squared terms in non-linear regressions such as negative binomial regressions (Ai and Norton 2003; Greene 2010), it is not straightforward to interpret these results. Exceptions are Abadie (2006) and Goldstein (2005) who find evidence for a U-shaped relationship between political rights and terrorism risk using linear models.

A widely held belief by academics, politicians, and journalists alike holds that terrorism is rooted in economic grievances (for references, see Krueger and Maleckova 2003). For example, President Bush (2002) explained at a U.N. development conference: “We fight poverty because hope is an answer to terror”. President Obama (cited in *The Economist* 2010) concurs: “Extremely poor societies [...] provide optimal breeding grounds for disease, terrorism and conflict.” In the wake of the suicide attack on Moscow airport on January 24, 2011, President Medvedev (2011) similarly argued: “We must do everything possible to influence [...] the socioeconomic roots of terrorism: poverty, unemployment, illiteracy, and orphanhood, and to ensure that global development becomes stable, secure and fair.”

Current evidence based on measures of economic development such as GDP and GDP per capita (e.g., Abadie 2006; Berman and Laitin 2008; Blomberg and Hess 2008a; Blomberg and Rosendorff 2009; Tavares 2004), the UN human development index (e.g., Bravo and Dias 2006; Piazza 2006), poverty indices (e.g., Kurrild-Klitgaard et al. 2006), literacy and school enrollment rates (e.g., Blomberg and Hess 2008a; Krueger and Maleckova 2003; Kurrild-Klitgaard et al. 2006), infant mortality rates and life expectancy (e.g., Drakos and Gofas 2006a; Kurrild-Klitgaard et al. 2006), calorie intake and telephone mainlines (e.g., Lai 2007; Piazza 2006) offers only weak support for this hypothesis. Studies that account for attack location and victim identities find – with a few exceptions – either no association or a positive association between economic development and terrorism. More encouraging are studies looking at perpetrators. Several studies document a negative relationship between a country’s state of economic development and the number of attacks perpetrated by its citizens. But again, some studies report opposite findings and a large number of studies report non-results.

There are many variations on the theme. First, economic grievances due to changes in economic activity (GDP growth, contraction periods) (e.g., Blomberg et al. 2004; Krueger and Laitin 2008), unemployment rates (e.g., Feldman and Perälä 2004; Goldstein 2005) or inflation (e.g., Feldman and Perälä 2004) may be important for terrorism. Second, inequality may matter (e.g., Abadie 2006; Piazza 2006). Third, social safety nets and redistributive policies at the national level and aid at the international level may alleviate grievances and, thus, reduce terrorism (e.g., Azam and Delacroix 2006; Azam and Thelen 2008; Burgoon

2006; Crenshaw et al. 2007; Neumayer and Plümper 2009; Robison et al. 2006). Fourth, economic regulation may protect the interest of insiders at the cost of reducing opportunities for outsiders (e.g., Basuchoudhary and Shugart 2010; Kurrild-Klitgaard et al. 2006; Piazza 2008b). Fifth, globalization may break up existing structures and thereby provide new opportunities for formerly excluded groups (e.g., Blomberg and Hess 2008b; Blomberg and Rosendorff 2009; Li and Schaub 2004). Finally, similar to other forms of political violence, terrorism may be related to an abundance of natural resources (Sambanis 2008; Tavares 2004).

Only a few of these hypotheses are borne out by the data. There is a very clear and robust negative relationship between terrorism and globalization. Open countries are, *ceteris paribus*, less prone to terrorist attacks and their citizens are less likely to be victims or perpetrators of terrorist attacks. In studies on terror-locations, there is contested evidence for a negative relationship between welfare policies and terrorism (Burgoon 2006; Crenshaw et al. 2010) and some evidence for the resource curse hypothesis. Studies of perpetrator countries provide conflicting evidence regarding aid and some evidence for a negative relationship between terrorism and economic freedoms.

The positive association between urbanization and terrorism documented in several studies is little surprising for scholars of terrorism. It has long been observed that urbanization is conducive to terrorism (Crenshaw 1981).

Aspects of demography and ethnicity also feature prominently in the literature. Trivially, large countries provide many targets and a larger pool of potential victims and perpetrators. Thus, population size is consistently positively correlated with terrorism. Beyond this scale effect, countries with growing population seem to be plagued by less (e.g., Dreher and Fischer 2010) – and countries with young populations by more terrorism (Tavares 2004; Urdal 2006).<sup>3</sup>

Notorious cases of sectarian violence and separatist terrorism suggest that ethnically, linguistically or religiously fragmented societies are a fertile ground for terrorism. The preponderance of evidence points indeed to a positive relationship between ethnic/linguistic fractionalization/tensions and terrorism. In contrast, terrorism seems not to be related to religious fractionalization/tensions within countries according to the existing literature. Most of the previous studies analyzing the relationship between ethnicity and terrorism frame their theoretical arguments in terms of ethnic tensions but test the theories with measures of ethnic fractionalization. A notable exception is Basuchoudhary and Shugart (2010) who use a measure of ethnic tensions. In the analysis at hand, we follow their lead and use this

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<sup>3</sup> Krueger and Maleckova (2009: 1536) do not find a strong effect of this so called “youth bulge.”



theoretically sounder measure. The variable on ethnic tensions has the additional advantage in our panel setting of being time variant.

Several researchers expect terrorism to be associated with other forms of political violence, conflicts and wars. First, terrorism can be often a strategy of the weaker belligerent in asymmetric warfare (both in intra- and interstate conflicts). Second, demonstrations, strikes and riots may be expressions of the same grievances that provide the background of terrorist campaigns. Third, civil wars provide an ideal training ground for prospective terrorists (Campos and Gassebner 2009). Finally, some observers of terrorism reckon international terrorism to be “someone else’s civil war” (Doran 2002). It is aimed at provoking overreactions that drive people into the arms of the terrorists. Overall, these conjectures are supported by the available evidence. Countries with internal conflicts experience and produce more terrorism than other countries (e.g., Campos and Gassebner 2009; Piazza 2007; 2008a; Testas 2004). The evidence for interstate conflicts and wars points in the same direction although the evidence is somewhat weaker (e.g., Braithwaite and Li 2007; Dreher and Fischer 2010; Koch and Cranmer 2007; Piazza 2008a; Walsh and Piazza 2010).

In addition to variables capturing political freedoms, economic grievances, demographic and ethnic factors as well as internal and external conflicts, researchers proposed a large variety of other potential correlates (see Table 1). But findings that are presented as statistically significant in the presence of some variables may not be significant in the presence of other variables proposed by different scholars. Therefore, we suggest testing the bounds of the significance of all previously considered variables.

### **3. Empirical Method**

As the literature overview has well documented there is a large set of studies that investigate the determinants of terrorism which produced a long list of potential explanatory variables. Studies often restrict their analysis to certain subsets of these variables and frequently ignore the effects of any omitted variable bias when other variables are not included. Moreover, using alternative sources of terror data might yield different conclusions regarding the impact of certain variables. In addition to any model uncertainty, the limited number of observations often restricts the power of statistical tests that rule out irrelevant explanatory variables.

In order to address these issues we use extreme bounds analysis (EBA), as proposed by Leamer (1983) and Levine and Renelt (1992). EBA enables us to identify explanatory variables that are robustly related to the three different terrorism measures we use. It is a

relatively neutral way of coping with the problem of selecting variables for an empirical model in situations where there are conflicting or inconclusive suggestions in the literature. Originally, EBA was introduced in the economic growth literature (e.g., Leamer 1983; Levine and Renelt 1992; Sala-i-Martin 1997; Sturm and de Haan 2005). In recent years its use has expanded to other fields where there is no clear consensus about which variables belong in a “true” model. Recent examples of topics subjected to the EBA procedure include the determinants of corruption (Serra 2006), life satisfaction (Bjørnskov et al. 2008) and R&D investment (Wang 2010).

To conduct an EBA, equations of the following general form are estimated

$$Y = \beta_M M + \beta_F F + \beta_Z Z + v, \quad (1)$$

where  $Y$  is the dependent variable,  $M$  is a vector of “commonly accepted” explanatory variables and  $F$  is a vector containing the variables of interest. The vector  $Z$  contains up to three possible additional explanatory variables (as in Levine and Renelt 1992) which, according to the broader literature, are related to the dependent variable. The error term is  $v$ . The EBA test for variable  $F$  states that if the lower extreme bound for  $\beta_F$  – i.e., the smallest value for  $\beta_F$  minus two standard deviations – is negative, while the upper extreme bound for  $\beta_F$  – i.e., the largest value for  $\beta_F$  plus two standard deviations – is positive, the variable  $F$  is *not* robustly related to  $Y$ . This basically means that all coefficients in all regressions run need to be statistically significant with a coefficient of the same sign.

Sala-i-Martin (1997) argues that the testing criterion proposed by Leamer (1983) and Levine and Renelt (1992) is far too strong for any variable to pass it. If the distribution of the parameter of interest has both positive and negative support, then a researcher is bound to find at least one regression model for which the estimated coefficient turns out to be statistically insignificant if enough regressions are run. Consequently, in what follows we concentrate not on the extreme bounds, but rather on the percentage of the regressions in which the coefficient of the variable  $F$  is statistically different from zero. Moreover, instead of analyzing only the extreme bounds of the estimates of the coefficient of a particular variable, we follow Sala-i-Martin's (1997) suggestion and analyze the entire distribution. Accordingly, we also report the median parameter estimate of  $\beta_F$  and its cumulative distribution function (CDF). The latter represents the proportion of the cumulative distribution function lying on each side of zero. CDF identifies the larger of the areas under the density function either above or below zero, i.e., whether this happens to be CDF or  $1 - \text{CDF}$ . So CDF always lies between 0.5 and 1.0.

However, in contrast to Sala-i-Martin, we use the unweighted, instead of the weighted, CDF.<sup>4</sup> As an alternative to the original criterion proposed by Leamer (1983) and Levine and Renelt (1992), Sala-i-Martin (1997) suggests considering a variable to be robust if the CDF criterion is greater than 0.9.

Another objection to EBA is that the initial partition of variables into the  $M$  and in the  $Z$  vector is likely to be arbitrary. However, as pointed out by Temple (2000), there is no reason why standard model selection procedures (such as testing down from a general specification) cannot be used in advance to identify variables that are particularly relevant. Furthermore, some variables are included in the large majority of studies and are by now common in this branch of the literature.

In our view, the inclusion of GDP per capita, population size, and a measure for democracy in the  $M$  vector is the minimal commonly agreed set in the literature. The role of GDP per capita has been widely and controversially discussed. As our dependent variable is an unscaled count variable, it seems necessary to control for differences in population sizes. Moreover, the role of democracy is also at the center of the discussion. In particular many studies call for a non-linear effect of democracy. To accommodate this we incorporate two dummy variables for partial and full democracies with full autocracies being the reference group. While it is tempting to include a larger set of variables in the  $M$  matrix, we restrict ourselves to the variables the inclusion of which is indeed basically uncontested in the literature. Moreover, in line with the bulk of the literature we include annual time fixed effects in all our regressions to control for common shocks and the cyclical behavior of terrorism (on the latter see, e.g., Im et al. 1987; Enders et al. 1992; Enders and Sandler 1999; 2006b). The  $F$  vector contains 62 variables (see Table 1) one at a time. In order to test one particular variable, combinations of the remaining 61 variables form the  $Z$  vector. After calculating the relevant statistics the next variable serves as the  $F$  vector and the previously tested variable goes into the  $Z$  vector.

As mentioned before all our dependent variables are count variables. Many countries in the world experience little terrorism or have few citizens who engage in terrorism; some countries, however, are exposed to many terror events. Thus all our terrorism measures exhibit over-dispersion, i.e., their variances are larger than their means. This calls for a negative

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<sup>4</sup> Sala-i-Martin (1997) proposes using the integrated likelihood function to construct a weighted CDF. However, missing observations for some of the variables pose a problem. Sturm and de Haan (2002) show that the goodness-of-fit measure may not be a good indicator of the probability that a model is the true model and that the weights constructed in this way are not invariant to linear transformations of the dependent variable. Hence, changing scales could result in different outcomes and conclusions. We therefore restrict our attention to the unweighted version.

binomial estimator. Moreover, we employ panel data and, as mentioned above, terrorism is distributed quite unequally across the globe. We therefore employ a conditional fixed effects negative binomial estimator. Following Hausman et al. (1984), if the joint probability is conditioned on the observed sum of counts (i.e., all observed terror occurrences) for each country then the conditional log likelihood function takes the following form:

$$\ln L = \sum_{i=1}^n \left[ \ln \Gamma \left( \sum_{t=1}^{T_i} e^{(\beta' X_{it})} \right) + \ln \Gamma \left( \sum_{t=1}^{T_i} y_{it} + 1 \right) - \ln \Gamma \left( \sum_{t=1}^{T_i} e^{(\beta' X_{it})} + \sum_{t=1}^{T_i} y_{it} \right) \right. \\ \left. + \sum_{t=1}^{T_i} \left\{ \ln \Gamma (e^{(\beta' X_{it})} + y_{it}) - \ln \Gamma (e^{(\beta' X_{it})}) - \ln \Gamma (y_{it} + 1) \right\} \right], \quad (2)$$

where  $\Gamma$  is the gamma distribution. The country specific effect drops out by conditioning on the sum of the counts of the dependent variable. The coefficients can be obtained by standard maximization of the log likelihood.

The list of all variables, their definitions, sources, and the studies proposing them is given in Table 1. We do not include two widely used composite indicators, the UN development index and the government capability index. Both indices combine GDP per capita with a large number of other variables. The weights of these indicators are arbitrary and have controversial implications. For example, combining GDP per capita in logarithms with life expectancy in levels implicitly values gains in life expectancy in rich countries as worth much more than an identical gain in life expectancy in poor countries. Therefore, we prefer to include the constitutive parts of these indicators separately. However, we do include composite indicators, such as the KOF Index of Globalization, that use more advanced aggregation procedures such as principal component analysis.

< Table 1 about here >

For the dependent variable we employ the three most commonly used datasets on terrorism: ITERATE, GTD, and MIPT. The ITERATE dataset is maybe the most often used dataset on transnational terrorism. It is based on published reports of transnational terrorist incidents found in print and electronic media. We use the version updated through 2005 taken from Mickolus et al. (2006).<sup>5</sup> While ITERATE is the oldest of the commonly used dataset, the

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<sup>5</sup> ITERATE defines terrorism as “the use, or threat of use, of anxiety-inducing, extranormal violence for political purposes by any individual or group, whether acting for or in opposition to established governmental authority, when such action is intended to influence the attitudes and behavior of a target group wider than the immediate victims and when, through the nationality or foreign ties of its perpetrators, its location, the nature of its institutional or human victims, or the mechanics of its resolution, its ramifications transcend national boundaries.” (Mickolus et al. 2006)

Global Terrorism Database GTD, one of the newest datasets is catching up ground.<sup>6</sup> This stems from the fact that it is available without monetary costs. Moreover, it differs from the ITERATE dataset as it combines domestic with transnational terrorism. It does not enable the researcher to separate the two forms of terror.<sup>7</sup> Finally, we use the Memorial Institute for the Prevention of Terrorism (MIPT) Terrorism Knowledge Base dataset.<sup>8</sup> This was once one of the most popular datasets (as it also was offered without monetary costs) but ceased operation on March 31, 2008.<sup>9</sup> Due to the many studies which have used this dataset we include it in our analysis, nonetheless. To ensure comparability with the previous studies we chose 1980 – the median start year of the 43 studies – as the initial year for our empirical analysis. Our results have thus little to say on the determinants of the leftist terrorism of the 1970s.<sup>10</sup>

## 4. Results

### 4.1 Locations of terrorism

We present our results in a compact way in Table 2. We only report variables that passed Sala-i-Martin's (1997) criterion of being considered a robust variable, i.e., a CDF of 0.9 or higher, at least in one measure of terrorism. The complete results are reported in Table A2 in the Appendix.

Two variables appear to be robust across all three measures: the index measuring physical integrity rights and (absence of) religious tensions. Three variables pass the robustness criterion twice, the population size (which is one of the base variables), economic freedom, and the infant mortality rate, while 13 additional variables pass the test in one terror measure only. We have marked the CDFs above .9 in bold face to enable the reader to get a quick overview.

< Table 2 about here >

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<sup>6</sup> Available at: <http://www.start.umd.edu/gtd>. The Global Terrorism Database defines terror as “the threatened or actual use of illegal force and violence by a non state actor to attain a political, economic, religious, or social goal through fear, coercion, or intimidation.” (<http://www.start.umd.edu/gtd/usinggtd/>) From 1998 onwards two of the following three criteria had to be fulfilled to be counted as an act of terror: (a) The violent act was aimed at attaining a political, economic, religious, or social goal; (b) The violent act included evidence of an intention to coerce, intimidate, or convey some other message to a larger audience (or audiences) other than the immediate victims; and (c) The violent act was outside the precepts of International Humanitarian Law.

<sup>7</sup> Enders et al. (2011) analytically separate the terror events reported in the GTD into domestic and transnational terror events.

<sup>8</sup> The MIPT Terrorism Knowledge Base defines terrorism as “violence, or the threat of violence, calculated to create an atmosphere of fear and alarm.” The focus of terrorism is to discourage the opposition from acting with free will. The motives for engaging in terrorism are political, while the acts themselves are generally conducted in a way that will achieve maximum publicity.

<sup>9</sup> Since 2009 a successor database called the RAND Database of Worldwide Terrorism Incidents is available.

<sup>10</sup> We have replicated our results using all available observations and using an alternative GDP PPP measure (from Penn World Tables). Our results remain virtually unchanged.

According to the results in Table 2, law and order – the strength and impartiality of the legal system – and physical integrity rights – the absence of human rights abuses – are associated with less terrorism. These results contribute to the debate of permissive versus preventive factors of democracy. One view holds that impartiality and respect of human rights enables terrorism, the other view contends that a partisan legal system and human rights violations create grievances and provoke political violence. The results reported in Table 2 are consistent with the latter view. However, law and order also measures popular observance of the law and human rights violations may be the result rather than the cause of terrorism (Dreher et al. 2010). Therefore, the possibility of reverse causality prevents strong conclusions.

The robust and negative relationship between infant mortality and the occurrence of terrorism defies the popular view that terrorism is rooted in poverty. Our results suggest that it is not so much the lack of material resources that is important for terrorism but rather the lack of economic opportunities: Countries that restrict economic freedom experience more terrorism. Somewhat surprisingly and in contrast to the majority of previously reported results, we find that financial globalization measured by foreign portfolio investments is positively correlated with terrorism. Urbanization is positively associated with terrorism. This finding is in accordance with much of the earlier literature – both empirical and theoretical. Cities provide an abundance of targets and attacks in cities are more likely to get media coverage than attacks in sparsely populated rural areas.

Several researchers expect ethnically and religiously diverse societies as well as ethnic and religious tensions to provide fertile ground for terrorism (see Section 2 and Table 1). Our results suggest that this is indeed the case. In line with most of the previous evidence we find religious and ethnic tensions to have a positive effect on the number of terrorist attacks in a country and year.

Terrorism is also related to other forms of political violence and internal conflicts such as strikes, guerrilla war as well as internal and internationalized internal wars, i.e., civil wars. These findings are consistent with the notions that other forms of political violence are an expression of the same underlying grievances, that civil wars provide fertile training ground for terrorists, and that terrorism is the strategy of the weaker belligerent in asymmetric warfare. The robust association between terrorism and military personnel and expenditures points in the same direction.

Many studies find that “the Western World” is often the victim of terrorism because it is rich and influential. Our results confirm this notion as we find OECD member countries to be attacked more often.

Related to the above is the notion that the United States is a prime target because of the values it represents particularly attracting fundamental terrorism. This is nicely summarized by Zakaria (2004): “What worries people around the world above all else is living in a world shaped and dominated by one country – the [United States].” Thus if a government sides with the United States it also puts itself at risk. In the literature this is operationalized by the voting behavior in the UN General Assembly. Savun and Philips (2009) generalize this idea by showing that involvement in foreign policy predicts transnational terror attacks. According to the EBA voting in line with the United States indeed triggers terror attacks.

Domestic political struggles and resulting social cleavages might translate into an increased level of terror when the struggles escalate. This transmission channel has been documented by several studies and is confirmed by our results.

There are interesting differences in the patterns of robustness across different datasets. In particular, ethnic tensions and OECD membership are robustly associated only with terrorism for GTD. To a lesser extent, this is also the case for other forms of political violence, military power, government fractionalization and political proximity to the United States. These differences are consistent with the notion that ethnic tensions, political struggles and social cleavages are much more important for domestic rather than transnational terrorism. GTD measures both forms of terrorism, while ITERATE and MIPT focus exclusively on transnational terrorism.<sup>11</sup> Other differences between the datasets may also contribute to the discrepancies in the results. For example, ITERATE excludes attacks against combatants and military targets in wars, major military interventions, and military occupations; GTD includes them. Hence, exploiting disparities between domestic and transnational terrorism as well as across datasets seems to be a promising avenue for future research (see Enders et al. 2011 for a thorough comparison of the datasets and a decomposition of the GTD data into domestic and transnational terror incidents).

As the previous discussion made clear, there are some robust correlates of terrorism. However, the most striking of our findings is that the majority of the variables suggested in the literature do not survive EBA. Our approach is pretty extreme and is important to reiterate four caveats: Our results do not necessarily invalidate theories of terrorism associated with other

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<sup>11</sup> MIPT tracks domestic terrorism from 1998 onward. We focus on transnational terrorism only to ensure comparability with ITERATE.

variables or empirical strategies. The lack of robustness may result from the use of poor proxies, the inclusion of “bad controls,” inconsistencies associated with endogenous regressors, or restriction to reduced form estimations.

#### 4.2 Victims and perpetrators

The main results for the victim- and perpetrator-regressions are reported in Table 3, the complete results can be found in Table A2 in the Appendix. Note that the perpetrator is not identified in GTD but only in ITERATE.

< Table 3 about here >

Overall, the set of robust variables in regressions on victim- and perpetrator-countries is not too different than regressions on terror-locations. Among the baseline variables population size and to a lesser extent GDP per capita are again robustly associated with terrorism.

Given the great deal of intellectual resources invested in research on the relationship between terrorism and democracy, one of the most important finding is the lack of a robust relationship between terrorism and democracy. From a theoretical perspective, there are two countervailing effects of democracy on terrorism. Democracy lowers the direct costs of engaging in terrorist activities but increases its relative costs. Moreover, existing empirical evidence is also conflicting with some studies reporting negative, some positive and some nonlinear effects (see Section 2). Our results show why this is the case. The CDFs are often close to 0.5, which implies that the coefficient estimates are distributed with mean zero. At the same time, there is a relatively high percentage of statistically significant coefficients – at least for some dependent variables and datasets. Thus, either statistically significant positive or statistically significant negative relationships between democracy and terrorism can be found with the appropriate set of controls.

The findings for five (groups of) variables closely resemble the results for the regressions using the location-aspect of terrorism. First, there is a very robust negative relationship between economic freedom and terrorism. Second, respect for physical integrity rights goes hand in hand with low levels of terrorism. Third, terrorism is closely associated with other forms of conflicts such as civil and guerrilla wars. Again, the positive relationship between military expenditures and terrorism points in the same direction. Fourth, ethnic and religious tensions are positively related to terrorism. Finally, citizens from Western countries, i.e., OECD members and countries politically close to the United States, are more likely to be victimized by terrorism. The results for ethnic and religious tensions, military expenditures, as



well as for OECD membership and political proximity to the United States are slightly less robust in estimates based on the ITERATE dataset.

In comparison with the results reported in Table 2, a couple of new results emerge from Table 3. First, in contrast to what might be expected from the natural resource curse literature, fewer attacks against citizens from a country occur, the larger the share of primary goods among the country's exports. Second, citizens from countries with a large share of young people are less likely to be victimized and, importantly, not more likely to commit attacks. Especially the latter result contradicts the literature on "youth bulge." Third, the number of telephone mainlines in a country is positively associated with the number of attacks perpetrated by citizens of that country. On the one hand, this result may be regarded as evidence for the conjecture that terrorism is rooted in economic grievances and poor development. On the other hand, the number of terrorist attacks perpetrated by citizens of a particular country is less robustly but positively associated with other common indicators of development such as infant health, life expectancy, literacy rates, and primary and secondary school enrollment (see Table A2 in the Appendix). Finally, more terrorist attacks are perpetrated by citizens from countries with centrist governments than from country-years under left- or right-wing regimes. This finding is rather unexpected. In our estimation sample about 45% of the perpetrators are active under centrist governments. Greece, Portugal, Spain, and Sri Lanka seem to be of particular importance for this result. Yet the results are not driven by individual countries. If we repeatedly run regressions with excluding one country at a time, the coefficient estimates for centrist governments are relatively stable and range from 0.134 (without Portugal) to 0.238 (without Mozambique).

## **5. Conclusions**

Terrorism has substantial costs, both economic (e.g., Frey et al. 2007, 2009; Gaibullov and Sandler 2008; Enders 2007; Sandler and Enders 2008; Llussa and Tavares 2011) as well as political (e.g., Gassebner et al. 2008, 2012). Therefore, in many countries the fight against terrorism is one of the top priorities on the political agenda. Two different strategies can be pursued in the fight against terrorism. One is to address the root causes of terrorism, another to treat its symptoms with specific counterterrorism measures. Scientific evidence can guide political decision makers in both cases. There is a small but important strand of literature assessing specific counterterrorism measures (e.g., Landes 1978; Enders et al. 1990a,b; Enders and Sandler 1993; Sandler et al. 2011). A much larger strand of literature investigates

conditions at the level of societies and countries that are conducive to terrorism. This strand of the literature can potentially inform policies aiming at curing the root causes. It is this second strand of the literature that we assessed in this paper.

Our systematic robustness analysis of previous findings yields some important policy implications. Among the most important findings are two non-results. First, terrorist activity is not robustly associated with the degree of democracy. What is more, our estimate lay bare the reason behind the conflicting results presented in the previous literature. For most datasets and aspects of terrorism, coefficient estimates are distributed with a mean close to zero. At the same time, the estimated coefficients turn out to be statistically significantly different from zero relatively often. Thus, either statistically significant positive or statistically significant negative relationships between democracy and terrorism can be found with the appropriate set of controls. Second, economic development as measured by GDP per capita does not matter for the amount of terrorism. This finding mirrors research analyzing the socioeconomic background of terrorists which finds little evidence that the typical terrorist is poor (e.g., Krueger and Maleckova 2003; Berrebi 2007; Krueger 2007). There is some conflicting evidence for other measures of development. While infant mortality is negatively associated with the number of attacks occurring in a country and year, the number of telephone mainlines is also negatively related to the number of attacks perpetrated by citizens from a particular country. However, the preponderance of evidence suggests that the level of economic development is of minor importance at best.

However, there is a very robust negative relationship between the degree of economic freedom and terrorism. Thus, more important than the level of development are economic opportunities.

According to our analysis, a strong and impartial judicial system and respect of physical integrity rights are associated with low levels of terrorism. This suggests that the widely purported trade-off between respecting human rights and countering terrorism may be non-existent. However, because of the obvious possibility of reverse causality, this interpretation has to be taken with a grain of salt.

A number of robust correlates of terrorism emerge from our analysis. Some can be a guideline for policy measures to counter terrorism, however, many are beyond governments' control. The prevention of civil and guerrilla wars and other forms of conflict as well as a reduction of ethnic and religious tensions are all worthy goals irrespective of their effect on the level of terrorism. Similarly, few will seriously consider sacrificing Western values in the name of security.

We probed the robustness of previous findings on the determinants of terrorism along three dimensions: aspects of terrorism, datasets and set of control variables. Our results have several implications for future research in this area. First, our analysis uncovers some truly robust correlates of terrorism. Yet, additional theoretical and empirical studies are needed to clarify issues of causality and underlying mechanisms. Second, our analysis demonstrates just how sensitive are the existing empirical results. Therefore, systematic robustness tests are warranted in future research on the determinants of terrorism. Our results suggest a set of variables that belongs in all analyses of robustness. Third, previous studies differ along additional dimensions than the ones considered here, such as alternative measures of terrorism, domestic versus transnational terrorism, and time periods. It is worth studying how choices along these dimensions influence results. Some authors suggest using measures of terrorism that reflect the severity of attacks (e.g., number of casualties). Severe attacks may be associated with factors other than those that explain less severe ones. Our analysis does not speak to this issue. Or, differences may exist between the determinants of domestic versus transnational terrorism. The sharp contrast between the results based on GTD, which combines domestic and transnational terrorist incidents and results based on the other two datasets focusing on transnational terrorism points in this direction. The decomposition of the GTD data into domestic and transnational terrorism by Enders et al. (2011) and other datasets including domestic terrorism provide a means of tackling this important issue. Similarly, time may matter. For example, Enders and Sandler (2000) show that the rise of religious terrorism after the takeover of the U.S. embassy in Tehran in 1979 and the end of the Cold War in 1991 substantially changed the nature of terrorism. In the same vein, Basuchoudhary and Shughart (2010) provide evidence consistent with the notion terrorism is influenced by different factors during and after the Cold War.

In sum, there are a number of intriguing questions left for future research. We hope that the analysis presented in this article provides a solid foundation on which future research on the determinants of terrorism can build.

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**Table 1. Variables**


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GDP per capita, log
Definition: log of GDP per capita based on PPP (constant 2005 international \$)
Source: World Bank (2009)
Proposed by: Abadie (2006), Azam and Delacroix (2006), Azam and Thelen (2008), Basuchoudhary and Shughart (2010), Berman and Laitin (2008), Blomberg and Hess (2008a, b), Blomberg and Rosendorff (2009), Blomberg et al. (2004), Braithwaite and Li (2007), Bravo and Dias (2006) <sup>b)</sup> , Burgoon (2006) <sup>b)</sup> , Campos and Gassebner (2009), Crenshaw et al. (2007), Dreher and Fischer (2010, 2011), Dreher and Gassebner (2008), Eyerman (1998), Goldstein (2005), Koch and Cranmer (2007) <sup>b)</sup> , Krueger and Laitin (2008), Krueger and Maleckova (2003), Kurrild-Klitgaard et al. (2006), Lai (2007), Li and Schaub (2004), Li (2005), Neumayer and Plümper (2009), Piazza (2006, 2008a, b), <sup>b)</sup> Piazza (2007) <sup>a)</sup> , Plümper and Neumayer (2010), Robison et al. (2006), Sambanis (2008), Tavares (2004), Testas (2004), Urdal (2006), Walsh and Piazza (2010)
Partial Democracy / Democracy
Definition: 1 if Freedom House score $\leq 2.5$ (full democracy); 1 if score 3-5 (partial democracy)
Source: Freedom House (2009a)
Proposed by: Abadie (2006) <sup>c)</sup> , Basuchoudhary and Shughart (2010), Blomberg and Hess (2008a, b), Blomberg and Rosendorff (2009), Blomberg et al. (2004), Braithwaite and Li (2007), Bravo and Dias (2006) <sup>e)</sup> , Burgoon (2006), Campos and Gassebner (2009), Crenshaw et al. (2007), Drakos and Gofas (2006a, b), Dreher and Fischer (2010, 2011), Dreher and Gassebner (2008), Eubank and Weinberg (2001), Eyerman (1998), Feldmann and Perälä (2004) <sup>c), d)</sup> , Goldstein (2005) <sup>c)</sup> , Koch and Cranmer (2007), Krueger and Laitin (2008) <sup>d)</sup> , Krueger and Maleckova (2003) <sup>d)</sup> , Kurrild-Klitgaard et al. (2006), Lai (2007), Li and Schaub (2004), Li (2005) <sup>e)</sup> , Neumayer and Plümper (2009), Piazza (2006, 2007, 2008b), Piazza (2008a) <sup>e)</sup> , Plümper and Neumayer (2010), Robison et al. (2006) <sup>c), d)</sup> , Sambanis (2008), Tavares (2004) <sup>c)</sup> , Testas (2004), Urdal (2006), Walsh and Piazza (2010), Weinberg and Eubank (1998)
Population, log
Definition: log of total population
Source: World Bank (2009)
Proposed by: Azam and Delacroix (2006), Azam and Thelen (2008), Braithwaite and Li (2007), Burgoon (2006), Campos and Gassebner (2009), Crenshaw et al. (2007), Dreher and Fischer (2010, 2011), Dreher and Gassebner (2008), Eyerman (1998), Koch and Cranmer (2007), Krueger and Laitin (2008), Krueger and Maleckova (2003), Lai (2007), Li and Schaub (2004), Li (2005), Neumayer and Plümper (2009), Piazza (2006, 2007, 2008a, b), Plümper and Neumayer (2010), Robison et al. (2006), Sambanis (2008), Urdal (2006), Walsh and Piazza (2010)
GDP growth
Definition: Annual percentage growth rate of GDP at market prices (constant local currency)
Source: World Bank (2009)
Proposed by: Blomberg et al. (2004), Campos and Gassebner (2009), Drakos and Gofas (2006a), Dreher and Fischer (2010), Dreher and Gassebner (2008), Feldmann and Perälä (2004), Krueger and Laitin (2008), Kurrild-Klitgaard et al. (2006), Li (2005), Piazza (2006), Tavares (2004), Urdal (2006)
Infant mortality rate
Definition: Infant deaths within the first year per 1000 live births
Source: World Bank (2009)
Proposed by: Kurrild-Klitgaard et al. (2006), Urdal (2006)
Life expectancy
Definition: Life expectancy at birth, total (years)
Source: World Bank (2009)
Proposed by: Drakos and Gofas (2006a)
Telephone
Definition: No. of telephone mainlines (per 100 people)
Source: World Bank (2009)

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*To be continued.*

**Table 1, part 2**


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Proposed by: Lai (2007)
Primary enrollment
Definition: Primary school enrollment (in percent, gross)
Source: World Bank (2009)
Proposed by: Kurrild-Klitgaard et al. (2006)
Secondary enrollment
Definition: Secondary school enrollment (in percent, gross)
Source: World Bank (2009)
Proposed by: Azam and Thelen (2008), Drakos and Gofas (2006a), Kurrild-Klitgaard et al. (2006)
Tertiary enrollment
Definition: Tertiary school enrollment (in percent, gross)
Source: World Bank (2009)
Proposed by: Kurrild-Klitgaard et al. (2006), Testas (2004)
Literacy rates
Definition: Literates (in percent of adult population.
Source: Vanhanen (2003)
Proposed by: Blomberg and Hess (2008a), Bravo and Dias (2006), Krueger and Maleckova (2003), Kurrild-Klitgaard et al. (2006), Tavares (2004)
Gini coefficient
Definition: Gini coefficient
Source: United Nations University (2008)
Proposed by: Abadie (2006), Feldmann and Perälä (2004), Goldstein (2005), Koch and Cranmer (2007), Kurrild-Klitgaard et al. (2006), Li and Schaub (2004), Li (2005), Piazza (2006)
Globalization
Definition: KOF Index of Globalization
Source: Dreher (2006)
Proposed by: Blomberg and Hess (2008a, b) <sup>†</sup> , Blomberg and Rosendorff (2009) <sup>†</sup> , Braithwaite and Li (2007) <sup>†</sup> , Bravo and Dias (2006) <sup>†</sup> , Burgoon (2006) <sup>†</sup> , Campos and Gassebner (2009) <sup>†</sup> , Crenshaw et al. (2007) <sup>†</sup> , Drakos and Gofas (2006a) <sup>†</sup> , Kurrild-Klitgaard et al. (2006) <sup>†</sup> , Li and Schaub (2004) <sup>†</sup> , Li (2005) <sup>†</sup> , Robison et al. (2006) <sup>†</sup>
FDI
Definition: Foreign direct investment, net inflows (in percent of GDP)
Source: World Bank (2009)
Proposed by: Li and Schaub (2004), Robison et al. (2006)
Portfolio investment
Definition: Portfolio investment, equity (DRS, current US\$)/GDP (current US\$)
Source: World Bank (2009)
Proposed by: Li and Schaub (2004)
WTO
Definition: 1 if GATT/WTO membership
Source: <a href="http://www.wto.org">www.wto.org</a>
Proposed by: Blomberg and Hess (2008b), Blomberg and Rosendorff (2009)
IMF membership
Definition: 1 if IMF membership
Source: <a href="http://www.imf.org">www.imf.org</a>
Proposed by: Blomberg and Rosendorff (2009)
OECD
Definition: 1 if OECD membership
Source: <a href="http://www.oecd.org">www.oecd.org</a>
Proposed by: Azam and Thelen (2008), Campos and Gassebner (2009), Li and Schaub (2004)
Gvt. consumption
Definition: General government final consumption expenditure (in percent of GDP)

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*To be continued.*

**Table 1, part 3**

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Source: World Bank (2009)
Proposed by: Burgoon (2006), Crenshaw et al. (2007), Robison et al. (2006)
Transfers
Definition: Transfers of income between residents of the reporting country and the rest of the world that carry no provisions for repayment (in percent of GDP)
Source: World Bank (2009)
Proposed by: Burgoon (2006), Crenshaw et al. (2007)
Social contributions
Definition: Social contributions (in percent of revenue)
Source: World Bank (2009)
Proposed by: Burgoon (2006), Crenshaw et al. (2007)
Education spending
Definition: Public spending on education, total (in percent of GDP)
Source: World Bank (2009)
Proposed by: This paper
Economic freedom
Definition: Fraser Economic Freedom Index
Source: Gwartney and Lawson (2008)
Proposed by: Basuchoudhary and Shughart (2010), Kurrild-Klitgaard et al. (2006), Piazza (2008b)
Aid
Definition: Official development assistance and official aid (in percent of GDP)
Source: World Bank (2009)
Proposed by: Azam and Delacroix (2006), Azam and Thelen (2008), Campos and Gassebner (2009), Neumayer and Plümper (2009)
Fuel exports
Definition: Fuel exports
Source: World Bank (2009)
Proposed by: Sambanis (2008)
Primary goods exports
Definition: Agricultural raw materials, food, and ores and metal exports (in percent of merchandise exports)
Source: World Bank (2009), own calculation
Proposed by: Bravo and Dias (2006), Tavares (2004)
Female labor
Definition: Female labor participation rate (in percent of female population ages >14)
Source: World Bank (2009)
Proposed by: Robison et al. (2006)
Unemployment rate
Definition: Unemployment rate
Source: International Labour Office (2009)
Proposed by: Feldmann and Perälä (2004), Goldstein (2005), Piazza (2006)
Inflation
Definition: GDP deflator (base year varies by country)
Source: World Bank (2009)
Proposed by: Feldmann and Perälä (2004), Piazza (2006)
Urbanization
Definition: Urban population (in percent of total)
Source: World Bank (2009)
Proposed by: Campos and Gassebner (2009), Robison et al. (2006), Tavares (2004)
Population growth
Definition: Population growth (annual in percent)
Source: World Bank (2009)

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*To be continued.*

**Table 1, part 4**


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Proposed by: Dreher and Fischer (2010), Dreher and Gassebner (2008), Piazza (2006)
Youth bulge
Definition: Population ages 15-25 (in percent of population ages >14)
Source: U.S. Census Bureau: International Data Base
Proposed by: Tavares (2004) <sup>g</sup> , Urdal (2006)
Ethnic tensions
Definition: Degree of tension attributable to racial, nationality, or language divisions. Higher values indicate more tensions.
Source: International Country Risk Guide
Proposed by: Abadie (2006) <sup>h, i</sup> , Basuchoudhary and Shugart (2010), Blomberg and Hess (2008a) <sup>i</sup> , Bravo and Dias (2006) <sup>h</sup> , Drakos and Gofas (2006a), Dreher and Fischer (2010) <sup>h, i</sup> , Goldstein (2005) <sup>h, i</sup> , Kurrild-Klitgaard et al. (2006) <sup>h, i</sup> , Lai (2007), Piazza (2006) <sup>h</sup> , Piazza (2008a) <sup>i</sup> , Sambanis (2008) <sup>h</sup> , Tavares (2004) <sup>h</sup>
Religious tensions
Definition: Suppression of religious freedom. Higher values indicate more tensions
Source: International Country Risk Guide
Proposed by: Abadie (2006) <sup>j</sup> , Blomberg and Hess (2008a, b) <sup>j</sup> , Dreher and Fischer (2010) <sup>j</sup> , Goldstein (2005) <sup>j</sup> , Piazza (2006; 2008a) <sup>j</sup> , Tavares (2004) <sup>j</sup>
Fiscal decentralization
Definition: Subnational expenditure share (in percent of total expenditures)
Source: IMF Governments Finance Statistics
Proposed by: Dreher and Fischer (2010, 2011)
Plurality voting system
Definition: 1 if legislative elections based on first-past-the-post
Source: Beck et al. (2001)
Proposed by: Li (2005)
Proportional voting system
Definition: 1 if legislative elections based on proportional representation
Source: Beck et al. (2001)
Proposed by: Li (2005)
Mixed voting system
Definition: 1 if legislature filled through mixed election rules
Source: Beck et al. (2001)
Proposed by: Li (2005)
Empowerment rights
Definition: Index comprising freedom of movement, speech, and religion as well as worker's rights and political participation. Higher values indicate less human rights abuses.
Source: Cingranelli and Richards (2006)
Proposed by: Feldmann and Perälä (2004)
Physical integrity
Definition: Index comprising torture, extrajudicial killing, political imprisonment, and disappearance. Higher values indicate less human rights abuses.
Source: Cingranelli and Richards (2006)
Proposed by: Feldmann and Perälä (2004), Walsh and Piazza (2010)
Freedom of the press
Definition: Index quantifying the freedom of the press. Higher values indicate less press freedom.
Source: Freedom House (2009b)
Proposed by: Li (2005)
Law and order
Definition: Strength and impartiality of the legal system as well as of the popular observance of the law. High values indicate more respect for law and order.
Source: International Country Risk Guide

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*To be continued.*

**Table 1, part 5**

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Proposed by: This paper
Military in politics
Definition: Military participation in government. Higher values indicate less military involvement.
Source: International Country Risk Guide
Proposed by: This paper
Military leader
Definition: 1 if the chief executive is a military officer.
Source: Beck et al. (2001)
Proposed by: This paper
Government fractionalization
Definition: Probability that two randomly chosen deputies from among the government parties will be of different parties.
Source: Beck et al. (2001)
Proposed by: Dreher and Fischer (2010, 2011), Dreher and Gassebner (2008), Koch and Cranmer (2007), Piazza (2006)
Opposition fractionalization
Definition: Probability that two randomly chosen deputies belonging to the opposition parties will be of different parties.
Source: Beck et al. (2001)
Proposed by: Dreher and Fischer (2010), Piazza (2006)
Left government
Definition: 1 if party of the chief executive is communist, socialist, social democratic, or left-wing.
Source: Beck et al. (2001)
Proposed by: Burgoon (2006), Crenshaw et al. (2007), Koch and Cranmer (2007)
Right government
Definition: 1 if party of the chief executive is conservative, Christian democratic, or rightwing.
Source: Beck et al. (2001)
Proposed by: Koch and Cranmer (2007)
Centrist government
Definition: 1 if party of the chief executive is centrist.
Source: Beck et al. (2001)
Proposed by: Koch and Cranmer (2007)
Regime Durability
Definition: No. of years since most recent regime change (three point change in the Polity IV score over a period of three years or less)
Source: Marshall and Jaggers (2002)
Proposed by: Campos and Gassebner (2009), Li (2005), Piazza (2007, 2008a, b)
Demonstrations
Definition: Any peaceful public gathering of at least 100 people for the primary purpose of displaying or voicing their opposition to government policies or authority, excluding demonstrations of a distinctly anti-foreign nature.
Source: Databanks International (2005)
Proposed by: Campos and Gassebner (2009)
Strikes
Definition: Any strike of 1,000 or more industrial or service workers that involves more than one employer and that is aimed at national government policies or authority.
Source: Databanks International (2005)
Proposed by: Campos and Gassebner (2009)
Riots
Definition: Any violent demonstration or clash of more than 100 citizens involving the use of physical force.
Source: Databanks International (2005)

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*To be continued.*

**Table 1, part 6**


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Proposed by: Campos and Gassebner (2009)
Guerrilla war
Definition: Any armed activity, sabotage, or bombings carried on by independent bands of citizens or irregular forces and aimed at the overthrow of the present regime.
Source: Databanks International (2005)
Proposed by: Campos and Gassebner (2009)
Interstate war
Definition: 1 if war between two or more states with at least 1000 battle-related deaths per year
Source: UCDP/PRIO Conflict Database
Proposed by: Braithwaite and Li (2007), Burgoon (2006), Crenshaw et al. (2007), Dreher and Fischer (2010), Koch and Cranmer (2007), Lai (2007), Li and Schaub (2004), Li (2005), Piazza (2008a), Walsh and Piazza (2010)
Internal war
Definition: 1 if war between the government of a state and internal opposition groups without intervention from other states with at least 1000 battle-related deaths per year
Source: UCDP/PRIO Conflict Database
Proposed by: Campos and Gassebner (2009), Lai (2007), Piazza (2007, 2008a, b), Testas (2004), Walsh and Piazza (2010)
Internationalized internal war
Definition: 1 if war between the government of a state and internal opposition groups with intervention from other states with at least 1000 battle-related deaths per year
Source: UCDP/PRIO Conflict Database
Proposed by: Campos and Gassebner (2009), Lai (2007), Piazza (2007, 2008a, b), Testas (2004), Walsh and Piazza (2010)
International organizations
Definition: No. of international organizations in which a country participates
Source: Dreher (2006)
Proposed by: Bravo and Dias (2006)
No of embassies
Definition: No. of embassies in the country
Source: Dreher (2006)
Proposed by: Bravo and Dias (2006)
Political proximity to U.S.
Definition: Share of votes in the UN General Assembly which is cast in line with the U.S. (i.e., sum of votes in line with U.S. divided by total votes in a year; abstentions/absences treated as 0.5)
Source: Voeten and Merdzanovic (2009)
Proposed by: Campos and Gassebner (2009), Dreher and Fischer (2010, 2011), Dreher and Gassebner (2008)
Military personnel
Definition: Armed forces personnel (in percent of total labor force)
Source: World Bank (2009)
Proposed by: Braithwaite and Li (2007) <sup>k</sup> , Burgoon (2006) <sup>k</sup> , Crenshaw et al. (2007), Koch and Cranmer (2007) <sup>k</sup> , Li and Schaub (2004) <sup>k</sup> , Li (2005) <sup>k</sup>
Military expenditures
Definition: Military expenditure (in percent of GDP)
Source: World Bank (2009)
Proposed by: Braithwaite and Li (2007) <sup>k</sup> , Burgoon (2006) <sup>k</sup> , Crenshaw et al. (2007), Koch and Cranmer (2007) <sup>k</sup> , Li and Schaub (2004) <sup>k</sup> , Li (2005) <sup>k</sup>
Arms exports
Definition: Arms imports (in percent of merchandise imports)
Source: World Bank (2009), own calculation
Proposed by: Neumayer and Plümper (2009)

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*To be continued.*



**Table 1, part 7**

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Arms imports

Definition: Arms exports (in percent of merchandise exports)

Source: World Bank (2009), own calculation

Proposed by: Neumayer and Plümper (2009)

State sponsor

Definition: Countries determined by the U.S. Secretary of State to have repeatedly provided support for acts of international terrorism.

Source: U.S. Department of State

Proposed by: Lai (2007)

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Notes: <sup>a)</sup> Total GDP; <sup>b)</sup> variable is part of composite indicators human development index or gvt. capability; <sup>c)</sup> political rights; <sup>d)</sup> civil liberties; <sup>e)</sup> other variable such as executive constraint, pluralism, reg. of political part. or other; <sup>f)</sup> globalization is measured as openness  $((X + M)/GDP)$ ; <sup>g)</sup> population ages < 15; <sup>h)</sup> ethnic fractionalization; <sup>i)</sup> linguistic fractionalization; <sup>j)</sup> religious fractionalization; <sup>k)</sup> variable is part of the composite indicator gvt. capability.

**Table 2. Main results for locations of terrorism**

Variable	Location, ITERATE			Location, GTD			Location, MIPT		
	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.
<i>Baseline variables</i>									
GDP per capita, log	0.103	0.681	39.6	0.210	0.894	73.4	0.063	0.628	27.6
Population, log	0.142	0.837	62.3	0.221	<b>0.984</b>	93.7	0.177	<b>0.902</b>	68.8
Democracy	0.059	0.550	23.7	0.191	0.646	48.9	-0.065	0.537	14.7
Partial Democracy	0.035	0.542	20.9	0.225	0.726	53.0	-0.017	0.523	10.2
<i>Robust variables</i>									
Physical integrity	-0.138	<b>0.979</b>	92.1	-0.165	<b>0.970</b>	90.8	-0.099	<b>0.914</b>	73.5
Religious tension	0.103	<b>0.934</b>	80.6	0.121	<b>0.986</b>	96.3	0.069	<b>0.918</b>	74.6
Economic freedom	-0.307	<b>0.948</b>	80.0	-0.269	<b>0.949</b>	83.0	-0.327	0.899	71.7
Infant mortality	-0.017	<b>0.910</b>	67.2	-0.010	<b>0.903</b>	64.1	-0.008	0.699	22.4
Ethnic tensions	-0.007	0.544	18.4	0.040	<b>0.911</b>	63.1	0.011	0.627	15.2
Gvt. fractionalization	0.450	0.867	64.9	0.420	<b>0.919</b>	73.5	0.411	0.852	60.8
Guerrilla war	0.208	0.877	65.7	0.370	<b>0.990</b>	96.0	0.182	0.893	62.3
Internal war	0.086	0.839	46.5	0.264	<b>0.987</b>	95.6	0.112	0.856	62.4
Internat. internal war	0.028	0.624	6.5	0.147	<b>0.933</b>	69.6	0.059	0.735	14.0
Law and order	0.002	0.538	11.6	-0.072	<b>0.960</b>	82.3	-0.059	0.882	62.8
Military expenditures	0.027	0.701	29.1	0.079	<b>0.935</b>	79.8	0.015	0.625	17.2
Military personnel	0.041	0.791	32.2	0.077	<b>0.923</b>	73.1	0.025	0.691	21.5
OECD	-0.108	0.600	14.2	0.407	<b>0.914</b>	68.4	0.137	0.661	11.0
Portfolio investment	1.029	0.743	7.4	0.037	0.539	1.8	2.877	<b>0.963</b>	80.4
Proximity to U.S.	1.266	0.813	42.8	1.481	<b>0.905</b>	72.0	0.969	0.795	34.6
Strikes	0.068	0.810	37.6	0.126	<b>0.906</b>	75.5	0.088	0.897	53.1
Urbanization	0.015	0.856	62.7	0.005	0.716	42.3	0.023	<b>0.913</b>	77.5

*Note:* The table reports the median parameter estimates (Coef.), the cumulative distribution function (CDF), i.e. the proportion of the cumulative distribution function lying on each side of zero, and the percent the estimate was statistically significant at the 5% level (% sig.). The criterion to consider a variable robustly related to terrorism is a CDF above .9 which is printed in **bold** face.

**Table 3. Main results for victims and perpetrators of terrorism**

Variable	Victim, ITERATE			Victim, GTD			Perpetrator, ITERATE		
	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.
<i>Baseline variables</i>									
GDP per capita, log	0.304	0.852	58.5	0.371	<b>0.957</b>	87.9	-0.020	0.528	21.0
Population, log	0.307	<b>0.965</b>	90.0	0.247	<b>0.990</b>	96.6	0.111	0.774	38.8
Democracy	-0.111	0.599	10.6	-0.018	0.512	40.1	-0.327	0.755	37.9
Partial Democracy	-0.196	0.741	21.7	0.041	0.556	29.1	-0.110	0.629	23.3
<i>Robust variables</i>									
Economic freedom	-0.313	<b>0.938</b>	83.3	-0.202	<b>0.914</b>	73.0	-0.374	<b>0.954</b>	82.1
Internat. internal war	0.188	<b>0.963</b>	85.1	0.134	<b>0.927</b>	70.3	0.169	<b>0.906</b>	60.5
Physical integrity	-0.101	<b>0.969</b>	85.2	-0.137	<b>0.935</b>	82.4	-0.198	<b>0.985</b>	93.5
Guerrilla war	0.098	0.766	28.2	0.366	<b>0.993</b>	97.2	0.325	<b>0.935</b>	77.5
Internal war	0.170	<b>0.930</b>	73.7	0.270	<b>0.987</b>	95.1	0.126	0.874	59.7
Telephone	0.006	0.720	16.9	0.019	<b>0.934</b>	80.7	-0.026	<b>0.904</b>	72.8
Centrist government	0.117	0.783	30.2	-0.069	0.721	20.8	0.294	<b>0.936</b>	63.0
Ethnic tensions	-0.007	0.582	7.5	0.039	<b>0.909</b>	65.2	-0.006	0.527	12.5
Military expenditures	0.026	0.643	10.5	0.074	<b>0.917</b>	78.5	0.028	0.648	18.5
OECD	-0.345	0.789	33.0	0.717	<b>0.976</b>	90.4	-0.329	0.729	28.1
Proximity to U.S.	0.854	0.758	28.6	2.233	<b>0.968</b>	88.8	1.377	0.801	38.9
Primary goods exports	-0.006	0.786	34.4	-0.007	<b>0.930</b>	72.7	0.001	0.536	10.6
Religious tensions	0.063	0.841	62.5	0.124	<b>0.987</b>	96.7	0.071	0.858	58.3
Youth bulge	-4.604	0.830	58.5	-4.504	<b>0.930</b>	78.9	1.398	0.619	26.1

*Note:* The table reports the median parameter estimates (Coef.), the cumulative distribution function (CDF), i.e. the proportion of the cumulative distribution function lying on each side of zero, and the percent the estimate was statistically significant at the 5% level (% sig.). The criterion to consider a variable robustly related to terrorism is a CDF above .9 which is printed in **bold** face.

**Table A1. Summary of studies**

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**Abadie (2006)**

Period, no of cntries, no of obs: 2003/2004, 156, 156

Terror measure, definition, source: Terrorism index (log), L, WMRC

Method: OLS, cross-section

Main regressors (effect, sig): GDP per capita (log) (-, ~), human development index (-, -), Gini coefficient (-, -), political rights (u, ~), ethnic fractionalization (+, -), linguistic fractionalization (+, +), religious fractionalization (-, -)

Other variables: Country area, elevation, tropical area

**Azam and Delacroix (2006)**

Period, no of cntries, no of obs: 1990-2004, 178, 178

Terror measure, definition, source: No of incidents, P, ICT

Method: Negative binomial, cross-section

Main regressors (effect, sig): GDP per capita (-, ~), aid (~, ~), population (n, na)

Other variables: Dummies for West Bank and Gaza and Egypt and Israel

**Azam and Thelen (2008)**

Period, no of cntries, no of obs: 1990-2004, 176, 176

Terror measure, definition, source: No of incidents, P, ICT

Method: Negative binomial, cross-section

Main regressors (effect, sig): GDP per capita (-, +), secondary school enrollment (-, ~), OECD membership (+, +), aid (-, +), population (+, -)

Other variables: Dummies for West Bank and Gaza, Egypt and Israel, Sub-Saharan African countries and former USSR countries

**Basuchoudhary and Shugart (2010)**

Period, no of cntries, no of obs: 1982-1997, 118, ?

Terror measure, definition, source: No of incidents, P, ITERATE

Method: Negative binomial, fixed effects panel

Main regressors (effect, sig): GDP per capita (-, ~), economic freedom (-, +), democracy (-, -), ethnic tensions (+, ~)

**Berman and Laitin (2008)**

Period, no of cntries, no of obs: 1945-2003, 161, 161

Terror measure, definition, source: No of suicide attacks, P, various

Method: OLS, fixed effects panel

Main regressors (effect, sig): GDP per capita (log) (~, -)

Other variable: Proportion of mountainous terrain (log)

**Blomberg and Hess (2008a)**

Period, no of cntries, no of obs: 1968-2003, 108, 108

Terror measure, definition, source: No of incidents, L, ITERATE

Method: Tobit, cross-section

Main regressors (effect, sig): GDP (log) (+, +), GDP per capita (log) (+, +), illiteracy rate (+, -), openness (log) (-, +), democracy (+, -), linguistic fractionalization (-, -), religious fractionalization (-, -)

Other variables: Dummies for Asia and Africa

**Blomberg and Hess (2008a)**

Period, no of cntries, no of obs: 1968-2003, 108, 108

Terror measure, definition, source: No of incidents, L, ITERATE

Method: Tobit, pooled panel

Main regressors (effect, sig): GDP (log) (+, +), GDP per capita (log) (+, ~), illiteracy rate (-, +), openness (log) (-, +), democracy (+, ~), linguistic fractionalization (-, -), religious fractionalization (-, +)

Other variables: Dummies for Asia and Africa

**Blomberg and Hess (2008b)**

Period, no of cntries, no of obs: 1968-2003, 189, 129543

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*To be continued.*

**Table A1, part 2**


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<p>Terror measure, definition, source: No of incidents, L, ITERATE</p> <p>Method: Tobit, pooled and random effects panel (cntry dyads)</p> <p>Main regressors (effect, sig): GDP per capita (+, +), GDP (+, +), openness (-, +), WTO membership (+, +), democracy (+, ~), religious fractionalization (~, -)</p> <p>Other variables: Distance, dummies for common language and common border, country area</p> <p>Blomberg and Hess (2008b)</p> <p>Period, no of cntries, no of obs: 1968-2003, 189, 129543</p> <p>Terror measure, definition, source: No of incidents, V, ITERATE</p> <p>Method: Tobit, pooled and random effects panel (cntry dyads)</p> <p>Main regressors (effect, sig): GDP per capita (+, +), GDP (+, +), openness (-, +), WTO membership (+, +), democracy (+, ~), religious fractionalization (+, -)</p> <p>Other variables: Distance, dummies for common language and common border, country area</p> <p>Blomberg and Hess (2008b)</p> <p>Period, no of cntries, no of obs: 1968-2003, 189, 129543</p> <p>Terror measure, definition, source: No of incidents, P, ITERATE</p> <p>Method: Tobit, pooled and random effects panel (cntry dyads)</p> <p>Main regressors (effect, sig): GDP per capita (-, +), GDP (+, +), openness (-, ~), WTO membership (-, ~), democracy (-, +), religious fractionalization (-, +)</p> <p>Other variables: Distance, dummies for common language and common border, country area</p> <p>Blomberg and Rosendorff (2009)</p> <p>Period, no of cntries, no of obs: 1968-2003, 189, 129543</p> <p>Terror measure, definition, source: No of incidents, L, ITERATE</p> <p>Method: Tobit, pooled and random effects panel (cntry dyads)</p> <p>Main regressors (effect, sig): GDP per capita (+, +), GDP (+, +), openness (-, +), WTO membership (+, +), IMF membership (+, -), democracy (+, +)</p> <p>Other variables: Distance, dummies for common language and common border, country area</p> <p>Blomberg and Rosendorff (2009)</p> <p>Period, no of cntries, no of obs: 1968-2003, 189, 129543</p> <p>Terror measure, definition, source: No of incidents, V, ITERATE</p> <p>Method: Tobit, pooled and random effects panel (cntry dyads)</p> <p>Main regressors (effect, sig): GDP per capita (+, +), GDP (+, +), openness (-, +), WTO membership (+, +), IMF membership (+, +), democracy (+, +)</p> <p>Other variables: Distance, dummies for common language and common border, country area</p> <p>Blomberg and Rosendorff (2009)</p> <p>Period, no of cntries, no of obs: 1968-2003, 189, 129543</p> <p>Terror measure, definition, source: No of incidents, P, ITERATE</p> <p>Method: Tobit, pooled and random effects panel (cntry dyads)</p> <p>Main regressors (effect, sig): GDP per capita (-, +), GDP (+, +), openness (-, +), WTO membership (-, +), IMF membership (-, +), democracy (-, ~)</p> <p>Other variables: Distance, dummies for common language and common border, country area</p> <p>Blomberg et al. (2004)</p> <p>Period, no of cntries, no of obs: 1968-1991, 127, 3014</p> <p>Terror measure, definition, source: Transitional probabilities, L, ITERATE</p> <p>Method: Markov process</p> <p>Main regressors (effect, sig): GDP per capita (high/low income) (+, +), economic contraction (+, ~), democracy (+, +)</p> <p>Other variable: Dummy for Africa</p> <p>Braithwaite and Li (2007)</p> <p>Period, no of cntries, no of obs: 1975-1997, 143, 2402</p> <p>Terror measure, definition, source: No of incidents, L, ITERATE</p> <p>Method: Negative binomial, pooled panel</p> <p>Main regressors (effect, sig): GDP per capita (log) (-, +), openness (-, -), democracy (+, +),</p>
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*To be continued.*

**Table A1, part 3**


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population (log) (+, +), government capability (+, +), interstate military conflict or war (+, -)
Other variables: GDP per capita (log) of 8 largest trading partners, dummies for Africa, America, Asia, Europe, and terrorism hotspots, lagged dependent variable
Bravo and Dias (2006)
Period, no of cntries, no of obs: 1997-2004, 60, 60
Terror measure, definition, source: No of incidents, L, MIPT
Method: OLS, cross-section
Main regressors (effect, sig): Human development index (-, +), percent adults with primary education (-, +), openness (-, -), large mineral reserves (+, +), pluralism (-, ~), ethnic fractionalization (+, +), no of IOs (+, -), no of embassies (+, +)
Other variables: Percent Muslim, dummy for relevant geostrategic position
Burgoon (2006)
Period, no of cntries, no of obs: 1991-1998/1998-2003, ?, 92/93
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, cross-section and pooled panel
Main regressors (effect, sig): Openness (~, -), total spending (-, +), total transfers (-, +), total welfare spending (-, +), democracy (~, ~), population (+, +), left government (~, ~), government capability (+, +), interstate military conflict or war (~, -)
Other variables: Regional effects, lagged dependent variable, year effects
Burgoon (2006)
Period, no of cntries, no of obs: 1996-2001, ?, 95
Terror measure, definition, source: No of incidents, P, US State Dpt
Method: Negative binomial, cross-section and pooled panel
Main regressors (effect, sig): Openness (+, -), total welfare spending (-, +), democracy (-, +), population (+, +), left government (+, -), government capability (+, +), interstate military conflict or war (-, -)
Other variables: Regional effects
Campos and Gassebner (2009)
Period, no of cntries, no of obs: 1972-2003, 94, 2335
Terror measure, definition, source: No of incidents, L, MIPT
Method: Negative binomial, fixed effects panel
Main regressors (effect, sig): GDP per capita (~, -), GDP per capita growth (+, -), openness (+, -), OECD membership (+, +), aid (+, -), urbanization (+, +), democracy (+, ~), increase in democracy (-, -), population (+, +), regime durability (-, +), civil war (+, +), strikes (-, -), guerilla warfare (+, +), riots (+, +), demonstrations (~, ~), political proximity to U.S. (+, +)
Crenshaw et al. (2007)
Period, no of cntries, no of obs: 1975-1995, 98, 1168
Terror measure, definition, source: No of incidents, P, ITERATE
Method: Negative binomial, cross-section and pooled panel
Main regressors (effect, sig): GDP per capita (log) (-, -), openness (-, ~), total spending (-, -), total transfers (-, -), total welfare spending (-, -), democracy (+, +), population (log) (+, +), left government (-, +), government capability (+, -), military personnel per capita (+, +), military expenditure per capita (+, -), interstate military conflict or war (-, +)
Other variables: Dummies for Africa, Americas, Asia, and Europe, lagged dependent variable
Drakos and Gofas (2006a)
Period, no of cntries, no of obs: 1985-1998, 139, 1946
Terror measure, definition, source: No of incidents, L, MIPT
Method: Negative binomial
Main regressors (effect, sig): GDP growth (+, -), life expectancy (+, -), secondary school enrollment (+, -), openness (-, +), democracy (n, na), population density (+, +), minorities at risk (+, -), international disputes (+, +)
Other variables: Lagged dependent variables

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*To be continued.*

**Table A1, part 4**

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Drakos and Gofas (2006b)
Period, no of cntries, no of obs: 1985-1998, 153, 1671
Terror measure, definition, source: No of incidents, L, MIPT
Main regressors (effect, sig): Democracy (+, +)
Other variables: Lagged dependent variable
Dreher and Fischer (2010)
Period, no of cntries, no of obs: 1976-2000, 43, 176
Terror measure, definition, source: No of incidents, L, MIPT
Method: Negative binomial, random effects panel
Main regressors (effect, sig): GDP per capita (log) (+, ~), GDP growth (+, -), democracy (+, +), increase in democracy (~, -), population (log) (+, +), population growth (-, +), ethnic fractionalization (+, -), linguistic fractionalization (-, -), religious fractionalization (+, -), fiscal decentralization (-, +), political autonomy (+, -), government fractionalization (+, ~), opposition fractionalization (-, -), political proximity to U.S. (+, ~), interstate war (+, +)
Other variable: New state index, lagged dependent variable
Dreher and Fischer (2011)
Period, no of cntries, no of obs: 1997-2003, 32, 56
Terror measure, definition, source: No of incidents, L, MIPT
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP per capita (log) (~, -), democracy (-, ~), increase in democracy (-, -), population (log) (+, +), fiscal decentralization (-, +), political autonomy (+, -), government fractionalization (~, ~), political proximity to U.S. (+, +)
Dreher and Gassebner (2008)
Period, no of cntries, no of obs: 1975-2001, 116, 2250
Terror measure, definition, source: No of incidents, L, MIPT
Method: Negative binomial, fixed effects panel
Main regressors (effect, sig): GDP per capita (~, -), GDP growth (-, -), democracy (+, -), increase in democracy (-, +), population (+, +), population growth (-, -), government fractionalization (+, +), political proximity to U.S. (+, +)
Eubank and Weinberg (2001)
Period, no of cntries, no of obs: 1980-1987, 159, 159
Terror measure, definition, source: No of incidents, V, ITERATE
Method: Mean comparisons
Main regressors (effect, sig): Democracy (+, +)
Eubank and Weinberg (2001)
Period, no of cntries, no of obs: 1980-1987, 159, 159
Terror measure, definition, source: No of incidents, P, ITERATE
Method: Mean comparisons
Main regressors (effect, sig): Democracy (n, +)
Eyerman (1998)
Period, no of cntries, no of obs: 1968-1986, 154, 2038
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, cross-section
Main regressors (effect, sig): GDP per capita (+, +), democracy (-, +), population (+, -)
Other variables: Actual over potential taxes, dummy for new democracies
Feldmann and Perälä (2004)
Period, no of cntries, no of obs: 1973-1995, 17, 187
Terror measure, definition, source: No of incidents, L, ITERATE
Method: OLS, pooled and fixed effects panel
Main regressors (effect, sig): GDP growth (+, -), Gini coefficient (-, -), unemployment rate (+, ~), inflation (-, -), political rights (+, +), civil liberties (+, +), human rights violations (-, +)
Other variable: Lagged dependent variable

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*To be continued.*

**Table A1, part 5**


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Goldstein (2005)
Period, no of cntries, no of obs: 2003/2004, 92, 92
Terror measure, definition, source: Terrorism index (log), L, WMRC
Method: OLS, cross-section
Main regressors (effect, sig): GDP per capita (log) (-, ~), human development index (-, -), Gini coefficient (-, +), unemployment rate (+, +), political rights (u, +), ethnic fractionalization (-, -), linguistic fractionalization (+, ~), religious fractionalization (~, -)
Other variables: Country area, elevation, tropical area, regional effects
Koch and Cranmer (2007)
Period, no of cntries, no of obs: 1975-1997, 68, 935
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, random effects panel
Main regressors (effect, sig): Gini coefficient (~, +), democracy (-, -), population (+, +), government fractionalization (+, +), left government (+, +), centrist government (+, -), right government (-, -), government capability (+, +), interstate military conflict or war (-, -)
Other variables: GDP per capita (log) of 8 largest trading partners, lagged dependent variable
Krueger and Laitin (2008)
Period, no of cntries, no of obs: 1997-2002, 138, 138
Terror measure, definition, source: No of incidents, L, US State Dpt
Method: Negative binomial, cross-section
Main regressors (effect, sig): GDP per capita (log) (~, -), GDP per capita growth (-, -), civil liberties (-, +), population (log) (+, +)
Other variables: Percent Muslim, percent Buddhist, percent Hindu, percent other religion
Krueger and Laitin (2008)
Period, no of cntries, no of obs: 1997-2002, 138, 138
Terror measure, definition, source: No of incidents, V, US State Dpt
Method: Negative binomial, cross-section
Main regressors (effect, sig): GDP per capita (log) (+, -), GDP per capita growth (-, -), civil liberties (-, -), population (log) (+, +)
Other variables: Percent Muslim, percent Buddhist, percent Hindu, percent other religion
Krueger and Laitin (2008)
Period, no of cntries, no of obs: 1997-2002, 138, 138
Terror measure, definition, source: No of incidents, P, US State Dpt
Method: Negative binomial, cross-section
Main regressors (effect, sig): GDP per capita (log) (~, -), GDP per capita growth (-, -), civil liberties (-, +), population (log) (+, +)
Other variables: Percent Muslim, percent Buddhist, percent Hindu, percent other religion
Krueger and Maleckova (2003)
Period, no of cntries, no of obs: 1997-2002, 129, 129
Terror measure, definition, source: No of incidents, P, US State Dpt
Method: Negative binomial, cross-section
Main regressors (effect, sig): GDP per capita (quartiles) (~, ~), illiteracy rate (-, -), civil liberties (-, +), population (log) (+, +)
Other variables: Percent Muslim, percent Buddhist, percent Hindu, percent Christian
Kurrid-Klitgaard et al. (2006)
Period, no of cntries, no of obs: 1996-2002, 107, 107
Terror measure, definition, source: Incidence of terrorism, L, ITERATE
Method: Logit, cross-section
Main regressors (effect, sig): GDP per capita (log) (+, +), GDP per capita growth (~, ~), human poverty index (-, ~), infant mortality (+, ~), education (-, -), Gini coefficient (~, -), openness (-, +), size of government (+, -), property rights and legal system (+, -), sound money (~, -), freedom of trade (+, -), regulation (~, -), democracy (-/n, +/-na), political rights (n, na), civil liberties (~, na),

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*To be continued.*



**Table A1, part 6**


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ethnic fractionalization (-, +), linguistic fractionalization (+, +)
Other variables: Percent Muslim, percent Catholic, percent Protestant, latitude
Kurrild-Klitgaard et al. (2006)
Period, no of ctries, no of obs: 1996-2002, 107, 107
Terror measure, definition, source: Incidence of terrorism, P, ITERATE
Method: Logit, cross-section
Main regressors (effect, sig): GDP per capita (log) (+, -), GDP per capita growth (-, -), human poverty index (-, ~), infant mortality (-, -), education (-, -), Gini coefficient (+, -), openness (-, +), size of government (+, -), property rights and legal system (+, -), sound money (+, -), freedom of trade (-, -), regulation (+, -), democracy (-, ~), political rights (-, ~), civil liberties (-, +), ethnic fractionalization (-, +), linguistic fractionalization (+, +)
Other variables: Percent Muslim, percent Catholic, percent Protestant, latitude
Lai (2007)
Period, no of ctries, no of obs: 1968-1998, 3072, 185
Terror measure, definition, source: No of incidents, P, ITERATE
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP per capita (log) (n, na), no of telephone mainlines (-, ~), democracy (+, +), population (log) (+, +), economic discrimination of minority (+, +), civil war (+, +), interstate military conflict or war (+, +), state sponsor (+, +)
Other variables: No of incidents in contiguous neighbors, lagged dependent variable
Li and Schaub (2004)
Period, no of ctries, no of obs: 1975-1997, 1996, 112
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP per capita (log) (-, na), Gini coefficient (+, ~), openness (-, -), FDI (~, -), foreign portfolio investments (-, -), OECD membership (+, na), OECD x GDP per capita (-, na), democracy (+, +), population (log) (+, -), government capability (+, +), interstate military conflict or war (+, -)
Other variables: GDP per capita (log) of 8 largest trading partners, interaction term OECD x GDP per capita of trading partners, dummies for Africa, Americas, Asia, Europe, lagged dependent variable, year effects
Li (2005)
Period, no of ctries, no of obs: 1975-1997, 119, 1685
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP per capita (log) (-, +), economic contraction (+, -), Gini coefficient (~, ~), openness (-, -), voter turnout x democracy (na, na), executive constraints (+, +), population (log) (+, +), proportional voting system (~, -), plurality voting system (+, ~), mixed voting system (+, ~), press freedom (+, ~), regime durability (-, +), government capability (+, +), interstate military conflict or war (-, ~)
Other variables: Dummies for Africa, Americas, Asia, Europe, and years prior to 1991, lagged dependent variable
Neumayer and Plümper (2009)
Period, no of ctries, no of obs: 1969-2005, ?, 575876
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, pooled panel (cntry dyads)
Main regressors (effect, sig): GDP per capita (relative) (+, +), aid donor (+, +), democracy (~, ~), population (log) (+, +), arms export (+, +)
Other variables: Dummies for source equals target, Islam versus rest, Islam versus West, rest versus West dyads, common border, and intervention in civil war distance, alliance
Neumayer and Plümper (2009)
Period, no of ctries, no of obs: 1969-2005, ?, 575876

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*To be continued.*

**Table A1, part 7**

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Terror measure, definition, source: No of incidents, P, ITERATE
Method: Negative binomial, pooled panel (cntry dyads)
Main regressors (effect, sig): GDP per capita (relative) (-, +), aid receiver (+, +), democracy (~, ~), population (log) (+, +), arms import (+, +)
Other variables: Dummies for source equals target, Islam versus rest, Islam versus West, rest versus West dyads, common border, and intervention in civil war distance, alliance
Piazza (2006)
Period, no of cntries, no of obs: 1986-2002, 95, 95
Terror measure, definition, source: No of incidents, L, US State Dpt
Method: OLS, cross-section
Main regressors (effect, sig): Human development index (+, -), GDP per capita growth (+, -), calories per capita (-, -), Gini coefficient (+, -), unemployment rate (~, -), inflation (~, -), democracy (-, -), increase in democracy (-, ~), population (+, ~), population growth (~, -), ethno-religious diversity (~, ~), no of parties (+, ~)
Piazza (2007)
Period, no of cntries, no of obs: 1972-2003, 19, 494
Terror measure, definition, source: No of incidents, L, MIPT
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP (-, -), democracy (+, +), civil liberties (+, ~), population (~, ~), regime durability (+, -), state failure (+, +)
Other variables: Country area, lagged dependent variable
Piazza (2007)
Period, no of cntries, no of obs: 1972-2003, 19, 494
Terror measure, definition, source: No of incidents, P, MIPT
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP (-, ~), democracy (+, +), civil liberties (+, -), population (~, ~), regime durability (+, ~), state failure (+, +)
Other variables: Country area, lagged dependent variable
Piazza (2008a)
Period, no of cntries, no of obs: 1973-2003, 197, 4843
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, pooled panel
Main regressors (effect, sig): Human development index (+, +), executive constraints (+, +), regulation of political participation (-, -), population (+, +), linguistic and religious fractionalization (+, +), regime durability (-, +), state failure (+, +), ethnic war (+, +), revolutionary war (+, +), genocide and politicide (+, +), adverse regime change (+, +), interstate military conflict or war (+, +)
Other variable: Country area
Piazza (2008a)
Period, no of cntries, no of obs: 1973-2003, 197, 4843
Terror measure, definition, source: No of incidents, P, ITERATE
Method: Negative binomial, pooled panel
Main regressors (effect, sig): Human development index (+, +), executive constraints (-, +), regulation of political participation (-, +), population (+, +), linguistic and religious fractionalization (+, +), regime durability (~, -), state failure (+, +), ethnic war (+, +), revolutionary war (+, +), genocide and politicide (+, +), adverse regime change (+, +), interstate military conflict or war (+, +)
Other variable: Country area
Piazza (2008b)
Period, no of cntries, no of obs: 1986-2003, 146, 146
Terror measure, definition, source: No of incidents, L, US State Dpt
Method: Negative binomial, cross-section

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*To be continued.*

**Table A1, part 8**


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Main regressors (effect, sig): Human development index (~, -), economic freedom (-, -), democracy (+, ~), population (log) (+, +), regime durability (-, -), state failure (+, +)	
Other variables: Dummy for Muslim majority, repression capacity, country area	
Plümper and Neumayer (2010)	
Period, no of cntries, no of obs: 1968-2003, 150, 484729	
Error measure, definition, source: No of incidents, V, ITERATE	
Method: Negative binomial, pooled panel (cntry dyads)	
Main regressors (effect, sig): GDP per capita (log) (+, +), democracy (+, -), population (log) (+, +)	
Other variables: Dummies for source equals target and common border, distance, alliance, relative military strength, interaction term alliance x relative military strength	
Plümper and Neumayer (2010)	
Period, no of cntries, no of obs: 1968-2003, 150, 484729	
Error measure, definition, source: No of incidents, P, ITERATE	
Method: Negative binomial, pooled panel (cntry dyads)	
Main regressors (effect, sig): GDP per capita (log) (+, -), democracy (-, +), population (log) (+, +)	
Other variables: Dummies for source equals target and common border, distance, alliance, relative military strength, interaction term alliance x relative military strength	
Robison et al. (2006)	
Period, no of cntries, no of obs: 1973-2002, 138, 2675	
Error measure, definition, source: No of incidents, P, ITERATE	
Method: Negative binomial, pooled panel	
Main regressors (effect, sig): GDP per capita (log) (~, na), openness (~, ~), FDI (-, ~), gvt. consumption (+, na), female participation rate (-, na), female participation rate x gvt. consumption (+, na), urbanization (+, +), political rights (+, +), civil liberties (-, ~), population (log) (+, +)	
Other variables: Dummies for dependence on Western arms supplies and years prior 1991, percent Muslim	
Robison et al. (2006)	
Period, no of cntries, no of obs: 1973-2002, 138, 2675	
Error measure, definition, source: No of incidents, P, ITERATE	
Method: Negative binomial, pooled panel	
Main regressors (effect, sig): GDP per capita (log) (n, na), openness (-, ~), FDI (-, +), gvt. consumption (~, na), female participation rate (~, na), female participation rate x gvt. consumption (-, na), urbanization (+, -), political rights (+, +), civil liberties (-, -), population (log) (+, +)	
Other variables: Dummies for dependence on Western arms supplies and years prior 1991	
Sambanis (2008)	
Period, no of cntries, no of obs: 1997, 118, 118	
Error measure, definition, source: Incidence of terrorism, L, US State Dpt	
Method: Logit	
Main regressors (effect, sig): GDP per capita (+, na), oil dependence (+, -), democracy (-, na), democracy x GDP per capita (-, na), population (log) (+, +), ethno-ling. fractionalization (+, -)	
Tavares (2004)	
Period, no of cntries, no of obs: 1987-2001, ?, 964	
Error measure, definition, source: No of incidents per capita, L, ICT	
Method: OLS, pooled panel	
Main regressors (effect, sig): GDP per capita (+, +), GDP growth (~, ~), illiteracy rate (-, +), primary goods exports (-, -), urbanization (+, +), political rights (~, -), population < age 15 (+, ~), ethnic fractionalization (-, ~), religious fractionalization (-, ~)	
Testas (2004)	
Period, no of cntries, no of obs: 1968-1991, 37, 37	
Error measure, definition, source: No of incidents, L, ITERATE	
Method: Poisson, cross-section	
Main regressors (effect, sig): GDP per capita (+, na), tertiary school enrollment (-, ~), democracy	

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*To be continued.*

**Table A1, part 9**


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(n, na), civil war (+, na), civil war x GDP per capita (+, na)
Urdal (2006)
Period, no of cntries, no of obs: 1984-1995, ?, 5331
Terror measure, definition, source: No of incidents, L, SFTFP
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP per capita growth (+, na), infant mortality (-, +), democracy (u, na), population (log) (+, +), population ages 15-25 (relative to population > age 14) (+, na), population ages 15-25 x GDP pc growth (+, na)
Other variable: Lagged dependent variable
Walsh and Piazza (2010)
Period, no of cntries, no of obs: 1981-2003/1998-2004, 142/153, 2547/774
Terror measure, definition, source: No of incidents, L, ITERATE
Method: Negative binomial, pooled panel
Main regressors (effect, sig): GDP per capita (log) (+, ~), executive constraints (~, -), stable autocracy (~, ~), voter turnout x democracy (na, na), population (log) (+, +), physical integrity rights index (-, +), civil war (+, +), interstate military conflict or war (~, ~)
Weinberg and Eubank (1998)
Period, no of cntries, no of obs: 1994, 1995, 167, 167
Terror measure, definition, source: No of incidents, L, RAND, US State Dpt
Method: Mean comparisons
Main regressors (effect, sig): Democracy (+/u, +)

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*Notes:* “No of cntries” and “no of obs” refer the number of countries and observations, respectively. A “?” identifies that the respective number is not given in the study. “Definition” stands for the definition of terrorism, i.e. if a location- (L), victim- (V) or perpetrator-aspect (P) is analyzed. “Source” denotes the source of the terror data. ITERATE stands for International Terrorism: Attributes of Terrorist Events, MIPT for Memorial Institute for the Prevention of Terrorism Terrorism Knowledge Base, US State Dpt for US Department of State, Patterns of Global Terrorism, ICT for International Institute for Counter-Terrorism, WMRC for World Markets Research Centre's Global Terrorism Index, RAND for the International Institute for Counter-Terrorism and SFTFP for the State Failure Task Force Project. “Effect” is the sign of the coefficient: ~ indicates changing signs; “n” and “u” indicate inverted U- and U-shaped relationships; na indicates coefficient of interaction term cannot be interpreted due to missing constitutive parts. “Sig” identifies the significance of each coefficient: + significant at the 10% level or more, ~ indicates changing significance level, i.e., sometimes significant sometimes not; na indicates that reported test statistics are invalid.

**Table A2. Complete results**

Variable	Location, ITERATE			Location, GTD			Location, MIPT			Victim, ITERATE			Victim, GTD			Perpetrator, ITERATE		
	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.
<i>Baseline variables</i>																		
GDP per capita, log	0.103	0.681	39.6	0.210	0.894	73.4	0.063	0.628	27.6	0.304	0.852	58.5	0.371	0.957	87.9	-0.020	0.528	21.0
Population, log	0.142	0.837	62.3	0.221	0.984	93.7	0.177	0.902	68.8	0.307	0.965	90.0	0.247	0.990	96.6	0.111	0.774	38.8
Democracy	0.059	0.550	23.7	0.191	0.646	48.9	-0.065	0.537	14.7	-0.111	0.599	10.6	-0.018	0.512	40.1	-0.327	0.755	37.9
Partial Democracy	0.035	0.542	20.9	0.225	0.726	53.0	-0.017	0.523	10.2	-0.196	0.741	21.7	0.041	0.556	29.1	-0.110	0.629	23.3
<i>Other variables</i>																		
Aid	-0.273	0.570	12.0	0.169	0.548	10.5	0.311	0.554	17.6	0.790	0.677	5.4	0.169	0.555	13.3	-0.016	0.502	12.6
Arms exports	-3.130	0.735	10.7	1.806	0.676	18.8	-0.526	0.565	6.2	-1.555	0.603	5.9	3.755	0.831	51.0	-3.673	0.712	7.2
Arms imports	-0.972	0.739	25.0	1.037	0.771	41.5	-0.331	0.585	11.2	-0.204	0.564	8.9	1.805	0.858	58.6	0.346	0.588	18.1
Centrist gvt.	0.162	0.862	37.7	-0.015	0.533	11.4	0.201	0.862	49.7	0.117	0.783	30.2	-0.069	0.721	20.8	0.294	0.936	63.0
Demonstrations	-0.001	0.518	2.2	0.021	0.762	37.4	0.004	0.552	4.7	0.014	0.708	14.7	0.022	0.801	43.8	0.003	0.522	15.6
Economic freedom	-0.307	0.948	80.0	-0.269	0.949	83.0	-0.327	0.899	71.7	-0.313	0.938	83.3	-0.202	0.914	73.0	-0.374	0.954	82.1
Education spending	-0.021	0.594	13.4	-0.018	0.642	9.2	-0.072	0.811	27.6	-0.030	0.665	11.8	-0.010	0.574	8.9	-0.071	0.736	18.1
Empowerment rights	0.011	0.616	15.5	-0.011	0.639	19.3	0.023	0.721	20.8	0.004	0.530	11.3	-0.009	0.607	14.7	-0.014	0.595	18.8
Ethnic tensions	0.007	0.544	18.4	-0.040	0.911	63.1	-0.011	0.627	15.2	0.007	0.582	7.5	-0.039	0.909	65.2	0.006	0.527	12.5
FDI	-0.015	0.734	30.1	-0.012	0.830	31.6	-0.011	0.732	18.3	0.008	0.754	22.1	-0.003	0.672	7.5	0.001	0.522	10.0
Female labor	-0.015	0.864	65.8	-0.005	0.732	41.4	-0.008	0.761	35.2	-0.008	0.720	31.7	-0.001	0.531	31.7	-0.005	0.651	30.2
Fiscal decentralization	0.006	0.664	10.8	-0.001	0.534	12.9	-0.009	0.726	18.4	0.001	0.546	4.5	0.003	0.621	18.9	0.017	0.808	22.9
Freedom of the press	0.003	0.625	10.0	0.006	0.799	35.4	0.002	0.576	4.2	0.001	0.553	8.0	0.007	0.825	40.4	0.002	0.539	6.1
Fuel exports	-0.004	0.692	39.1	-0.005	0.751	57.4	-0.004	0.642	37.9	0.001	0.531	11.6	-0.006	0.814	63.5	-0.004	0.666	34.7
GDP growth	-0.004	0.639	12.3	-0.009	0.756	36.9	-0.002	0.554	9.0	0.003	0.585	4.5	-0.009	0.753	39.7	-0.007	0.688	14.8
Gini coefficient	0.004	0.574	16.8	-0.006	0.670	29.4	-0.019	0.841	40.9	0.005	0.600	7.1	-0.018	0.888	61.9	0.000	0.543	15.6
Globalization	-0.001	0.508	21.3	0.007	0.732	31.9	0.018	0.853	53.6	-0.007	0.682	26.9	0.012	0.845	58.3	-0.018	0.840	42.3
Guerrilla war	0.208	0.877	65.7	0.370	0.990	96.0	0.182	0.893	62.3	0.098	0.766	28.2	0.366	0.993	97.2	0.325	0.935	77.5
Gvt. consumption	0.002	0.558	14.2	0.011	0.782	36.9	0.009	0.696	17.6	0.015	0.753	35.6	0.017	0.886	61.8	0.012	0.696	20.9

*To be continued.*

**Table A2, part 2**

Variable	Location, ITERATE			Location, GTD			Location, MIPT			Victim, ITERATE			Victim, GTD			Perpetrator, ITERATE		
	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.
Gvt. consumption	0.002	0.558	14.2	0.011	0.782	36.9	0.009	0.696	17.6	0.015	0.753	35.6	0.017	0.886	61.8	0.012	0.696	20.9
Gvt. fractionalization	0.450	0.867	64.9	0.420	0.919	73.5	0.411	0.852	60.8	0.300	0.802	47.3	0.333	0.883	64.1	0.358	0.793	43.1
IMF membership	0.418	0.692	25.0	0.410	0.733	28.3	0.669	0.792	29.5	0.597	0.801	26.3	0.481	0.759	35.9	0.401	0.674	14.1
Infant mortality rate	-0.017	0.910	67.2	-0.010	0.903	64.1	-0.008	0.699	22.4	-0.009	0.757	29.6	-0.008	0.840	49.7	-0.013	0.817	47.0
Inflation	-7E-13	5.4E-1	9.1	1E-14	0.615	36.7	-4E-14	0.532	14.3	-4E-5	0.704	12.8	1E-14	0.601	34.0	-5E-7	0.522	18.6
Internal war	0.086	0.839	46.5	0.264	0.987	95.6	0.112	0.856	62.4	0.170	0.930	73.7	0.270	0.987	95.1	0.126	0.874	59.7
Internat. organizations	4.4E-4	0.502	19.5	0.013	0.893	66.1	0.010	0.820	34.5	0.006	0.706	14.7	0.012	0.872	63.2	-0.002	0.540	4.8
Internat. internal war	0.028	0.624	6.5	0.147	0.933	69.6	0.059	0.735	14.0	0.188	0.963	85.1	0.134	0.927	70.3	0.169	0.906	60.5
Interstate war	-0.047	0.681	7.3	-0.038	0.679	4.6	-0.100	0.822	14.9	0.082	0.795	30.3	0.020	0.605	2.0	0.085	0.692	12.5
Law and order	0.002	0.538	11.6	-0.072	0.960	82.3	-0.059	0.882	62.8	-0.009	0.587	6.9	-0.045	0.898	62.7	-0.041	0.775	26.1
Left gvt.	-0.296	0.892	52.1	0.185	0.797	40.1	-0.120	0.693	8.2	-0.080	0.627	2.0	0.282	0.871	59.6	-0.145	0.689	11.0
Life expectancy	0.031	0.776	36.2	0.012	0.734	18.2	0.019	0.675	16.5	-0.015	0.632	12.4	0.003	0.586	11.6	0.026	0.766	19.2
Literacy rates	0.005	0.547	15.0	-0.009	0.624	30.6	0.005	0.517	18.3	-0.040	0.725	10.4	-0.012	0.643	32.3	0.083	0.834	53.8
Military expenditures	0.027	0.701	29.1	0.079	0.935	79.8	0.015	0.625	17.2	0.026	0.643	10.5	0.074	0.917	78.5	0.028	0.648	18.5
Military in politics	-0.032	0.775	37.7	-0.028	0.768	42.4	-0.040	0.828	45.0	-0.023	0.707	28.4	-0.010	0.611	28.0	-0.035	0.742	34.8
Military leader	-0.266	0.743	52.4	-0.266	0.847	61.3	-0.222	0.728	37.5	0.036	0.533	5.0	-0.330	0.879	69.2	-0.161	0.659	37.4
Military personnel	0.041	0.791	32.2	0.077	0.923	73.1	0.025	0.691	21.5	-0.017	0.573	10.3	0.053	0.835	53.6	0.057	0.803	34.5
Mixed voting system	0.153	0.709	21.8	0.022	0.526	13.7	0.265	0.820	37.4	0.312	0.833	46.1	0.057	0.618	16.8	0.391	0.898	57.0
No of embassies	-0.002	0.642	21.9	-0.001	0.585	14.1	-0.001	0.541	17.2	-0.001	0.618	16.4	0.001	0.585	16.5	-0.008	0.869	57.6
OECD	-0.108	0.600	14.2	0.407	0.914	68.4	0.137	0.661	11.0	-0.345	0.789	33.0	0.717	0.976	90.4	-0.329	0.729	28.1
Opposition fract.	0.074	0.585	12.9	0.001	0.508	14.5	0.185	0.749	14.7	0.001	0.528	7.2	-0.062	0.605	15.3	0.114	0.609	14.1
Physical integrity	-0.138	0.979	92.1	-0.165	0.970	90.8	-0.099	0.914	73.5	-0.101	0.969	85.2	-0.137	0.935	82.4	-0.198	0.985	93.5
Plurality voting system	-0.007	0.513	21.1	0.009	0.509	32.3	-0.067	0.588	12.7	-0.036	0.532	8.3	0.009	0.511	23.5	-0.089	0.603	16.4
Political proximity to U.S.	1.266	0.813	42.8	1.481	0.905	72.0	0.969	0.795	34.6	0.854	0.758	28.6	2.233	0.968	88.8	1.377	0.801	38.9
Population growth	-0.073	0.780	34.7	-0.085	0.824	50.1	-0.099	0.783	40.5	0.005	0.540	6.9	-0.092	0.845	54.5	-0.044	0.636	17.3
Portfolio investment	1.029	0.743	7.4	0.037	0.539	1.8	2.877	0.963	80.4	1.046	0.788	8.1	0.885	0.807	21.5	5.689	0.886	82.5
Primary enrollment	-0.004	0.685	18.7	-0.008	0.860	56.0	-0.001	0.551	7.5	-0.002	0.556	6.3	-0.007	0.819	49.8	0.012	0.818	49.1

*To be continued.*

**Table A2, part 3**

Variable	Location, ITERATE			Location, GTD			Location, MIPT			Victim, ITERATE			Victim, GTD			Perpetrator, ITERATE		
	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.	Coef.	CDF	% sig.
Primary goods exports	-0.007	0.820	40.4	-0.004	0.823	41.5	-0.002	0.647	18.5	-0.006	0.786	34.4	-0.007	0.930	72.7	0.001	0.536	10.6
Proport. voting system	-0.271	0.785	44.5	-0.058	0.615	22.5	-0.273	0.840	34.5	-0.334	0.819	49.7	-0.080	0.663	27.2	-0.380	0.869	46.6
Regime Durability	-0.003	0.766	39.5	0.002	0.725	42.2	-0.004	0.806	47.4	0.002	0.697	22.8	0.005	0.888	77.6	-0.002	0.649	21.9
Religious tensions	-0.103	0.934	80.6	-0.121	0.986	96.3	-0.069	0.918	74.6	-0.063	0.841	62.5	-0.124	0.987	96.7	-0.071	0.858	58.3
Right gvt.	-0.035	0.572	11.3	-0.043	0.664	18.5	-0.128	0.774	31.5	-0.085	0.735	14.3	-0.019	0.567	19.4	-0.187	0.838	36.7
Riots	-0.004	0.562	18.5	0.025	0.835	50.5	-0.003	0.542	5.3	-1E-4	0.531	5.1	0.017	0.770	30.6	0.011	0.604	13.9
Secondary enrollment	8.9E-5	0.503	5.7	-3E-3	0.670	23.3	-2E-3	0.606	4.8	-2E-4	0.518	10.7	-0.003	0.722	29.9	0.005	0.685	14.8
Social contributions	0.012	0.665	20.2	0.004	0.598	15.3	-0.028	0.851	53.7	-0.009	0.621	8.4	0.025	0.884	65.2	-0.001	0.535	4.2
State sponsor	0.219	0.548	13.8	0.077	0.516	28.9	0.037	0.520	7.6	0.099	0.508	14.6	-0.045	0.538	27.5	0.406	0.699	17.7
Strikes	0.068	0.810	37.6	0.126	0.906	75.5	0.088	0.897	53.1	0.038	0.705	7.3	0.073	0.805	53.0	0.075	0.728	34.9
Telephone	-0.019	0.862	68.5	0.008	0.761	48.2	-0.007	0.667	37.6	0.006	0.720	16.9	0.019	0.934	80.7	-0.026	0.904	72.8
Tertiary enrollment	-0.016	0.842	46.3	-0.013	0.811	59.8	-1E-4	0.519	11.7	-0.005	0.626	7.8	0.005	0.688	24.5	-0.023	0.861	40.0
Transfers	0.765	0.723	16.5	0.526	0.733	40.5	0.568	0.674	15.6	0.512	0.577	6.5	0.388	0.683	28.4	0.844	0.688	11.3
Unemployment rate	0.019	0.731	33.1	0.010	0.697	35.2	0.008	0.636	14.4	-0.015	0.751	20.6	0.009	0.687	31.8	0.029	0.831	39.8
Urbanization	0.015	0.856	62.7	0.005	0.716	42.3	0.023	0.913	77.5	0.005	0.627	19.5	-0.002	0.581	33.6	0.014	0.817	47.5
WTO	-0.309	0.881	57.0	-0.216	0.810	51.0	-0.266	0.833	39.9	-0.298	0.815	48.6	-0.220	0.816	54.2	-0.365	0.855	47.2
Youth bulge	0.054	0.505	25.8	-2.402	0.815	53.3	-2.566	0.760	26.4	-4.604	0.830	58.5	-4.504	0.930	78.9	1.398	0.619	26.1

*Note:* The table reports the median parameter estimates (Coef.), the cumulative distribution function (CDF), i.e., the proportion of the cumulative distribution function lying on each side of zero, and the percent the estimate was statistically significant at the 5% level (% sig.).