Foreign terror on Americans

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Abstract
Americans are a major target of international terrorism. Yet, terrorists from some countries are much more likely to attack American citizens than terrorists from other countries. Similarly, anti-American terrorism from a specific foreign country is much more prevalent during certain periods than others. This article develops a rational theory of international terrorism, which argues that attacking foreign nationals is of strategic value to terrorists even if they ultimately aim at gaining political influence in their home country. Attacking foreigners is the more attractive to domestic terrorists the more the terrorists' home government depends on military support from the foreign country. Applied to the US case, our theory predicts that more anti-American terrorism emanates from countries that receive more US military aid and arms transfers and in which more American military personnel are stationed, all relative to the country's own military capacity. Estimations from a directed country dyad sample over the period 1978 to 2005 support the predictions of our theory for both terrorist incidents involving Americans and terrorist killings of Americans as dependent variables. These results are robust to a wide range of changes to the empirical research design.

Keywords
arms export, foreign policy, military support, strategic, terrorism, USA

Introduction
Most terrorism is domestic and, not surprisingly, the victims of most attacks share their nationality with the terrorists. However, US citizens are major victims of international terrorism. Even before 9/11, at least 500 US citizens had died in terrorist attacks conducted by non-US terrorists from at least 37 different countries. In this article, we develop and empirically test the hypothesis that one important cause of anti-American terrorism is US military support to foreign countries whose governments are in conflict with terrorist groups. We augment existing rational explanations of terrorism and develop a theory of international terrorism in general and of foreign terror on Americans in particular, clearly specifying the conditions under which one would expect more anti-American terrorism to emanate from some countries than others.¹

In line with rational explanations of terrorism (Crenshaw, 1981, 2001; Pape, 2003, 2005; Kydd & Walter, 2006), we assume that terror groups want to gain a significant political influence on their country of origin or the broader region. Accordingly, terror groups are typically in conflict with the government of their home

¹ Our theory is of course not exhaustive. We do not claim that it can explain all international or anti-American terrorism. We use the term 'anti-American terrorism' as a shortcut for terrorist attacks on Americans.

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country. They attack foreign targets if they gain a strategic advantage or peer support from doing so. We explain the strategic logic of attacking foreigners by the degree to which foreign powers militarily support the government in the terrorists’ home country.

The US is the world’s leading arms exporter and provider of military aid, and it maintains military personnel in numerous countries around the globe. Yet, at the same time, it is also highly selective in who receives military support and how much. We argue that more anti-American terrorism comes from countries whose governments depend more on US military support. Accordingly, our theory predicts that a larger number of terrorist attacks are executed against Americans from countries that receive more US military aid and weapons and host more military personnel, all relative to their own military strength.

We test this hypothesis with a directed dyadic dataset of American deaths caused by foreign terrorists as well as terrorist incidents involving Americans, covering the period between 1978 and 2005 using dyadic information which identifies the origins of anti-American terrorism. To our knowledge, we are the first to develop a research design that goes beyond an aggregate time-series analysis of anti-American terrorism and which allows us to address both the temporal and the much larger spatial variation in attacks on American citizens. Empirical findings provide ample support for the hypothesis derived from our theory.

Rational explanations of international terrorism

Most rational theories of terrorism assume that terror groups do not regard terrorist attacks as an end in itself. Rather, terrorist attacks are instruments used by (radical) political groups that pursue goals and follow strategies (Fromkin, 1975; Crenshaw, 1981, 2001; Pape, 2003, 2005). Five goals have been associated with terror groups of all kinds by Kydd & Walter (2006: 52): regime change, territorial change, policy change, social control, and status quo maintenance. Without loss of generality, one can summarize these goals under one umbrella notion: terror groups ultimately strive for gaining political influence, power and control in their home country or wider region. But, of course, not all extremist groups with such goals conduct terror acts. Why do terror groups engage in terror rather than peaceful political action? The reason is that the terrorist home country does not allow peaceful political participation (e.g. because it is autocratic) or the goals of the terror groups are too unpopular to gain much support from the population, or both (Enders & Sandler, 2006b). Either way, nonviolent political change is not an option.

Terror groups thus clash with the government of their home country. But it is an asymmetric conflict, in which the weaker conflict party, the radical group, uses the age-old weapon of the weak and powerless – terrorism – to exert pressure on the stronger conflict party (Pape, 2005). Taken together, only if three conditions simultaneously apply, will political groups be likely to use terrorist means: first, the group has radical political goals, which, second, puts it in conflict with the government and, third, the group cannot achieve its goals by either legal means or by an open challenge on the government. Terrorism, then, can be understood as the attempt of a weaker party in a conflict over political goals to coerce the stronger conflict party to succumb to its goals. If, in comparison, the government and the radical group have similar policy preferences, no conflict emerges; if they have conflicting goals but similar strengths, then the leaders of an anti-government group are likely to form a guerilla group and can directly confront the government in a civil war.

This rational logic behind terrorism does not explain, however, why terror groups attack targets from other countries in general and from the USA in particular. Yet, three main factors explain why terrorists can benefit from attacking Americans: opportunity, necessity and strategic value. The omni-presence of Western tourists, business people, diplomats and commercial outlets across the world renders attacking Westerners relatively easy, and no other country is as prominently represented in foreign countries as the USA (Pillar, 2001). Li & Schaub (2004) argue that economic globalization tremendously increases such opportunity.

Sobek & Braithwaite (2005) develop the necessity argument for anti-American terrorism. They state that if radical political groups – ‘revisionist actors’ as they call them – want to challenge the status quo then they have to confront American dominance in the world. Given their relative weakness, they need to resort to terrorism, the weapon of the weak. Greater American dominance in the world means that the revisionist actors ‘experience a limitation in their ability to effectively alter the status quo’, which ‘will thus likely lead them to more often choose terrorism over alternative actions’ (Sobek & Braithwaite, 2005: 139f.). Terrorists then target America and Americans because the USA has the greatest interest and is most active in maintaining the status quo.

The strategic value of attacking Americans is highlighted by Crenshaw (2001) as an answer to ‘Why America?’ In her view, it is not the extent of American dominance in the world that matters as much, but the
specific decisions the USA makes in choosing and supporting allies. She argues that the USA 'has been susceptible to international terrorism primarily because of its engagement on the world scene and its choice of allies. Extremist groups in countries around the world have targeted United States interests in an effort to achieve radical political change at home' (Crenshaw, 2001: 432). Attacking Americans is of strategic value to terrorists because they hope that America will retreat if hit hard enough, which would facilitate the terrorists’ political struggle at home.

In sum, rational explanations regard anti-American terrorism as the consequence of easy opportunity, as a political necessity due to the asymmetry in power between weak terrorist groups and the most powerful country in the world, or as a strategic choice due to the value that attacking Americans has for the terrorists’ campaign at home.

Yet, not all rational explanations equally account for why America is targeted more than other (Western) countries and why terrorists from certain countries attack Americans much more than terrorists from other countries. The opportunity argument fails to explain why other Westerners, who are after all not much less present in foreign countries than Americans, become significantly less victimized by foreign terrorists even if we correct for population size. This argument also provides no satisfactory motivation for terrorists to kill foreigners. Westerners and Americans are not just attacked because of their mere presence and availability. Neither do Americans become the victims of terrorists simply out of necessity. While America is far more powerful than any radical political group, so are many other countries in the world. Thus, asymmetry in power constitutes a necessary but not a sufficient condition for terrorism. A rational theory of anti-American terrorism needs to explain how and why terrorists gain strategically from attacking US citizens and why terrorists of some countries gain more than terrorists from other countries.

In the remainder of this article, we will develop the idea of Crenshaw (2001) and others further, and we will argue that the strategic value to terrorists from attacking Americans is a function of the extent to which foreign governments depend on American military support. The greater American military support relative to domestic military capacity, the more America represents an effective brake on the terrorists’ goal of achieving political influence, power and control in their home country and the higher the strategic value of attacking Americans.

A strategic theory of international terrorism

In this section, we develop a theory of international terrorism, which we then apply to the US case. The main purpose of the first step is to explain the benefit domestic terrorists derive from attacking foreign targets. In the second step, we show how the strategic logic of international terrorism renders radical groups from some countries rather than others more likely to target Americans.

The strategic interests of terrorists

Our theory is firmly rooted within the rational explanation of international terrorism. We thus assume that terrorism serves as an instrument used by radical political groups which aim at gaining influence on important policies and political control in their home country (or wider region). We will show that under certain identifiable conditions, attacking foreign targets is in the strategic interest of the terror group.

Three distinctions are important for the development of our argument. First, we distinguish between three types of actors: the terrorist group, the government of the terrorists’ home country, with which the group is in conflict, and the foreign government, which interferes in the domestic conflict on the side of the home government. This distinction allows us to ultimately relate terrorist attacks on foreign citizens to a political conflict between the terror group and its government – a conflict in which the foreign power supports one side. Accordingly, we argue that international terrorism emanates from the foreign country’s influence on the domestic politics in the terrorists’ home country, and not from a given conflict between the terror group and the foreign nation per se.

Second, we distinguish between the leaders of the terror organization, the terror entrepreneurs (Neumayer & Plümper, 2009), and their footmen, the terror agents. Terror entrepreneurs have a crucial, decisive position in the terror organization. They are the group’s leaders and behave predominantly strategically. From their perspective, terrorism is a rational strategy in a political struggle to achieve an end, not an end in itself. Terror agents, on the other hand, are attracted by the entrepreneurs’ ideology, but do not hold a decisive or crucial position within the terror organization. Rather, they serve as footmen of the entrepreneurs and follow specified or unspecified commands, which may include the command of self-sacrifice in a suicide terror mission. Contrary to terror entrepreneurs, terror agents need not behave predominantly strategically or rationally. They may be driven by several, complex and varied motivations that may also depend on the contextual and sometimes very personal circumstances (Victoroff, 2005). This second distinction thus allows us to leave many discussions in the literature on terrorism aside – for
example, the one on how ‘rational’ suicide terrorists are (Ferrero, 2006). A rational theory of terrorism focuses on the terror entrepreneurs, not their agents, since they, not the agents, decide when, where and against whom terror attacks are executed.

Our third and final crucial distinction is that between the ultimate goals of terror groups on the one hand and intermediate strategic goals on the other hand. We argue that the ultimate goal of terror entrepreneurs is to gain political influence, power and control in their own country or wider region. Yet, most terror groups cannot reach their ultimate goals within the foreseeable future. For this reason, they aim at achieving intermediate strategic goals. In one way or the other, these goals all entail either a weakening of the government, against which the terrorists fight, or a strengthening of their own organization.

Terror groups can win a strategic advantage over the government in numerous ways. For example, the terrorists can kill important government representatives. Killing innocent individuals and bystanders can be equally beneficial to the terrorists, however, if this raises sufficient media attention and causes the government to respond heavy-handedly. The media attention becomes important since terrorists need access to a large audience in order to increase support by like-minded individuals and recruit new agents. A harsh government response has an ambiguous effect on the strength of the terror organization because governmental crackdowns impose costs on the group. At the same time, however, such crackdowns can also be beneficial to the terrorists if they are perceived as over-reactions and lead to the restriction of individual freedoms and increased costs for all citizens or particular groups of the population, which lowers the government’s popularity. More importantly, perhaps, a harsh anti-terror response by the government may infuriate the terror group’s actual and potential supporters, which drives out more moderate voices and helps recruit terror agents (Rosendorff & Sandler, 2004; Richardson, 2006). It also facilitates gaining shelter and gathering resources from those willing to support the terror group.

Yet, this explanation of the strategic interests of terror organizations does not account for why these groups at times choose to attack foreigners. Since terror entrepreneurs ultimately aim at changing the political system or important policies of their home country, one may wonder why terrorists even attack foreigners at all. It is to the strategic value of attacking foreign targets to which we now turn.

The strategic value of attacking foreign targets

Our micro-foundation of terrorism provides important insights into the logic of international terrorism, suggesting at least three reasons why attacking foreigners may become a utility-maximizing strategy for terror organizations. First, the nationality of terror victims has a major impact on the extent of media attention. With global news networks dominated by Western countries, it is attractive for any terror entrepreneur anywhere in the world to inflict terror on nationals of Western countries, as this is a sure way of getting into global news. The media attention enables the terrorists to spread their ideology more easily. Thus, a successful attack on foreigners from some countries has a higher strategic value for terror entrepreneurs than a similarly successful attack on foreigners from another country or on domestic citizens.

Second, attacking foreigners rather than domestic citizens may result in higher peer acknowledgement for the terror group. This will be particularly the case if the foreign citizens come from countries that are hated by the terrorists’ potential supporters. Attacking civilians is difficult to justify in the eyes of most people, even those sympathetic to the terror entrepreneurs’ goals. Yet, nationals from detested foreign countries can be more easily dehumanized as infidels, suppressors, exploiters and the like.

Third, and most importantly, some governments owe their survival partly to the support of foreign countries, which may heavily influence the government’s policies and may induce it to take immensely unpopular measures, heightening the conflict with the domestic terrorists. Accordingly, the probability of terror groups reaching their ultimate goal may depend on the amount of political and especially military support the domestic government receives from abroad. Foreign powers can, for example, station troops in the terrorists’ home country and provide military aid, arms, military training and political and economic support. Thus, if foreign powers make it less likely for the terror group to achieve its goals, an attack on foreign citizens can maximize the strategic advantage of the terror group. By directly targeting the foreign supporter of the home government, the terror entrepreneurs hope to trigger a decline in foreign support for the home government or even its complete withdrawal.

Of the diverse forms in which foreign powers can bolster embattled governments, military support is the one

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most relevant and most visible to the terrorists. Military aid, arms and training directly strengthen the government side in its struggle with the terrorists, putting the terrorists at a disadvantage compared to the situation without foreign military support. Military personnel of the foreign power may actively engage in counter-terrorist actions. Even where they do not, they help the government by releasing its own military personnel from some of its duties, thus lowering the opportunity costs of counter-terrorist action.

**US military support, anti-American terrorism and the terrorists’ countries of origin**

The logic of international terrorism discussed above can be applied straightforwardly to make predictions on the countries of origin of terrorists who conduct terror attacks on US targets. Our theory posits that anti-American terrorism more likely originates from countries in which US military support has the largest effect on the military capacity of the government receiving this support.

More governments borrow their military strength from the USA than from any other country. Yet, the USA is also highly selective in deciding which foreign governments receive military support. It supports some countries but not others. In turn, some countries and their governments depend much more on US military support than others.

Military support can take many different forms. Military aid and arms exports buttress the military capacity of a country’s government. While Israel, Egypt, Turkey, Greece and Pakistan are among the largest recipient countries of US military aid during our period of study in both absolute and relative terms, several Central American beneficiaries also rank prominently among the countries receiving a significant US contribution relative to their total military expenditures. The North Atlantic Treaty Organization (NATO) partners, Japan, Egypt, Israel and Saudi Arabia receive the largest amount of US arms exports. If we standardize arms imports by a country’s domestic military expenditures, however, we find that US arms transfers are most important for some Arab countries such as Egypt, Bahrain and Jordan. Another form of military support to foreign governments occurs when the USA stations its own military personnel in the country. US military bases are spread all over the world. In absolute numbers, most US overseas troops are stationed in some of the NATO countries, South Korea, Japan and the Philippines, which reflects the past American geopolitical interest in containing communism. If we disregard NATO countries and the troops currently stationed in Iraq and Afghanistan, then Panama, Bahrain, Kuwait and Honduras host the largest ratio of US troops relative to their own troops during our study period.

The flipside of this military support for foreign countries is that the more important US support becomes for the stability of the terrorists’ home government, the more attractive to terrorists become attacks on US targets. In countries largely dependent on US military support, the terrorists’ bid for political influence, power and control is frustrated not only by the military strength of the home government, but also by the extent to which the USA allows the home government to borrow from its much larger military strength.

In targeting Americans, the terrorists attempt to drive a wedge between the home government and its foreign supporter. Thereby, they seek to increase the costs for the USA beyond the gains the USA derives from supporting the government. If they manage to achieve this goal, the terror attacks may ultimately cause a withdrawal of US troops and a significant reduction in US arms exports and military aid. This would destabilize the government the USA had supported.

The terrorists derive succour from, admittedly highly selective, past experience. The suicide attacks on US marine barracks in October 1983, for example, which killed 241 Americans, made the USA withdraw its troops from Lebanon. Osama bin Laden has repeatedly professed his conviction that the USA and its soldiers are cowards who will give in if only hit hard and long enough (Al Qaeda, 2006a,b). Rightly or wrongly, Al Qaeda leaders believe that their terror campaigns will ultimately induce the USA to withdraw from the Middle East and that this would enable Al Qaeda and like-minded groups to expand their political influence and, perhaps, even allow them to take control of pivotal countries like Egypt and Saudi Arabia (Posen, 2001/02).

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3 This is not to say that political and economic foreign support may not also play a role in international terrorism. We concentrate here on military support as the form of assistance directly relevant to the terrorists’ violent struggle with the domestic government, leaving an analysis of other forms of support by the foreign power to future research. It is also worth noting that military aid is probably less fungible than general economic aid.

4 This was openly admitted to by the late President Ronald Reagan in his memoirs: ‘The price we had to pay in Beirut was so great, the tragedy at the barracks was so enormous … We had to pull out’ (cited in Pape, 2005: 55).
In sum, our theory predicts that groups from countries whose governments depend on US military support are most likely to conduct terror on Americans. Our testable hypothesis is that a foreign government’s greater dependence on US military aid, arms exports and military personnel significantly increases attacks by terrorists of this foreign country on US citizens. In the remainder, we put this hypothesis to an empirical test, starting with a discussion of the research design.

Research design
Empirically, social scientists can address the special case of anti-American terrorism from two different perspectives: First, time-series analyses of terrorist attacks on US targets identify the peaks in the number of terrorist attacks on Americans and their correlates. For example, Sobek & Braithwaite (2005) find that the total aggregate sum of all terror attacks against US targets is a function of overall US political and military dominance in the world. Second, a (pooled) time-series cross-sectional dyadic analysis with terrorist attacks on Americans as the dependent variable identifies the conditions determining the large variation in anti-American terrorism both across time and, more importantly, across terrorists’ countries of origin. It is only this latter perspective, which we adopt here, which sheds light on the causes of anti-American terrorism. This is because while such terrorism is widespread across the world, there are also clear and stark differences in its extent across terrorists’ countries of origin. In fact, any analysis of anti-American terrorism needs to tackle the fact that, even excluding the 9/11 attacks, terrorists from only ten countries account for roughly 80% of all American casualties and that the top ten countries of anti-American terrorism in terms of terrorist incidents account for roughly half of all terrorist acts.5

The dependent variables
Terrorism is notoriously difficult to measure because clear-cut definitions that allow distinguishing terrorism from guerrilla warfare on the one hand (Sambanis, 2008) and terrorism from ordinary crime on the other do not exist. We use data from the ‘International Terrorism: Attributes of Terrorist Events’ (Iterate) dataset (Mickolus et al., 2003), which defines terrorism as ‘the use, or threat of use, of anxiety-inducing, extra-normal 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’ (Mickolus et al., 2003: 2). Terrorist violence includes incidents as diverse as, among others, assassinations, bombings and armed attacks, arson and fire, kidnapping and skyjacking. However, ordinary crime and violence for purposes other than political are explicitly excluded. Violence committed during international and civil wars is not coded as terrorism either. Consequently, guerrilla attacks by rebel groups remain uncounted, unless they target civilians or the dependants of military personnel (Mickolus, Sandler & Murdock, 1989: xii). Thus, Iterate excludes terror attacks against US soldiers in Iraq but includes attacks against American civil workers (Enders & Sandler, 2006a: 372).

Iterate provides information on whether US citizens have been victimized or even killed in terror attacks. To create a directed country dyadic dependent variable, we use information on the nationality of the terrorists (the first nationality of terrorists in case more than one nationality is involved). We employ two dependent variables. One is the annual total of US citizens killed by terrorists; the other is the annual total of all terrorist incidents that victimized US citizens. The location of the terror incident does not matter. Thus, terrorists from a certain country might inflict terror on US citizens in their own country, in a third country or even in the USA itself.6

Anti-American terrorist incidents emanate from terrorists with nationality from 91 different countries during the period of our study (1978 to 2005), but as pointed out already, we observe substantial variation in the amount of terrorism across terrorists’ home countries among these 91 countries. Terrorists from 39 different countries killed 568 Americans, not counting those killed in the 9/11 attacks other than the ones inside the aeroplanes. It is important to note, however, that despite the generally high levels of public concern and despite the fact that Americans are major victims of international terrorism, foreign terror on Americans remains a relatively rare event. Terrorist incidents

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5 According to our data, the top 10 countries in terms of anti-American terrorist incidents are Colombia, the Philippines, Greece, Turkey, El Salvador, Lebanon, Peru, Iran, Germany and Pakistan. In terms of terrorist killings of US citizens, Saudi Arabia, Iraq, Egypt and Jordan enter the group, while Greece, Peru, Iran and Germany drop out.

6 The latter is a rather rare thing to happen, however, despite the 9/11 attacks. Enders & Sandler (2006a) find evidence for a regional shift of anti-American terror attacks from the Western hemisphere and Africa to the Middle East and Asia after 9/11.
involving Americans occur in only about 7.8% of dyad years and Americans get killed in only about 1.8% of dyad years.

Explanatory variables

We use three different variables to capture the various ways in which the USA chooses to support foreign governments militarily. Our main explanatory variables are thus US arms exports, military aid and military personnel stationed abroad. Data on arms exports have been provided to us, courtesy of the Stockholm International Peace Research Institute (SIPRI). Data on military aid and military personnel come from USAID (2006) and the US Department of Defense (various years), respectively. Military aid covers military grants and loans, principally for the acquisition of US defense equipment, services and military training. Active duty military personnel come from all services (army, navy, marine corps and air force). The three variables do not always move in the same direction. Some recipient countries receive a large amount of military support in one or two dimensions, but not necessarily in the remaining ones.

In order to measure the relative dependence of the terrorists’ home country on US military support, we have to relate US arms exports, aid and military personnel to some measure of domestic military strength. For arms exports and aid, we divide their total value by domestic military expenditures. For military personnel, we compute the ratio of US to domestic military personnel. Data on domestic military spending and personnel come from the Correlates of War’s Composite Index of National Capacity (CINC) measure as well as from the World Bank (2006). As control variables, we include the log of per capita income, the level of democracy, the logged population size of the terrorists’ home country and the geographical distance between it and the USA. This follows arguments provided by Krueger & Laitin (2008) and Abadie (2006) on welfare and terrorism and Enders & Sandler (2006b) on regime type and terrorism. We control for population size to account for the simple fact that, *ceteris paribus*, more populous countries may generate more anti-American terrorism. Lastly, we account for the fact that geographical proximity may lower the costs for terrorists to target Americans. The World Bank (2006) provides data on income and population. The democracy variable is measured by the Polity project’s *polity2* variable (Marshall, Jaggers & Gurr, 2006), which runs from –10 to 10. The natural log of the distance between Washington, DC and the capital city of the terrorists’ home country stems from Bennett & Stam (2005).9

Estimation method and models

Our dependent variables are count variables (number of US citizens killed in terrorist attacks and number of terror incidents involving Americans). For all reported results, the negative binomial estimate is more reliable than the Poisson model, because the sample variance of the number of killings and incidents exceeds its sample mean by factors of approximately 35 and 7, respectively. In robustness tests, we also used a variant of the negative binomial called the zero-inflated negative binomial. We compute standard errors adjusted for clustering on the terrorists’ home country, though the variations in killings and incidents over time are large and clustering is therefore of minor importance. Our sample covers the period 1978 to 2005 and up to 149 countries. Because of missing data on the explanatory variables, not all possible observations can be included in the analysis. We do not include year dummies to account for trends in foreign terror on Americans, but our results remain fully robust if we do.

Empirical evidence and analysis

Our theory predicts that radical terrorist groups are more likely to target US citizens when United States’ military support stabilizes the government in the home country of the terrorists. In this section we test our hypothesis. Before we present the results of our regression analyses, we did not follow this advice since we regard our variables as better proxies for a country’s capacity to deal with domestic terrorist threats.

El Salvador provides a good example for illustrating the link between US military support on the one hand and anti-American terrorism on the other. With the start of the civil war in 1980, the USA quickly stepped up its military aid to the El Salvadoran government from –10 to 10. This follows arguments provided by Krueger & Laitin (2008) and Abadie (2006) on welfare and terrorism and Enders & Sandler (2006b) on regime type and terrorism. We control for population size to account for the simple fact that, *ceteris paribus*, more populous countries may generate more anti-American terrorism. Lastly, we account for the fact that geographical proximity may lower the costs for terrorists to target Americans. The World Bank (2006) provides data on income and population. The democracy variable is measured by the Polity project’s *polity2* variable (Marshall, Jaggers & Gurr, 2006), which runs from –10 to 10. The natural log of the distance between Washington, DC and the capital city of the terrorists’ home country stems from Bennett & Stam (2005).9

For lack of data, we cannot control for the amount and quality (Bueno de Mesquita, 2007) of governmental counter-terrorist measures.

The *Iterate* data go back to 1968, but the project starts reporting separately on US victims only from 1978 onwards.
1980s, reaching on average about 50% of domestic military expenditures. As a result, there was a wave of terrorist attacks on Americans throughout the 1980s (40 incidents in total between 1980 and 1991), whereas there had been practically no terror attacks on Americans before. As US military aid waned to very low levels in the beginning of the 1990s, anti-American terrorism virtually disappeared, with only two recorded incidents since 1992.

Similarly, in Guatemala, no anti-American terrorism was recorded in the late 1970s. When the USA sent large numbers of weapons to the Guatemalan government in the early 1980s, a wave of terror attacks on Americans ensued, lasting for about half a decade. Likewise, a period of no anti-American terrorism in the late 1970s was followed by a range of attacks in the early 1980s and then again in the late 1980s when the USA sent massive amounts of military aid and large numbers of weapons to the government of Honduras.

As pointed out already, US military support for foreign governments can take several forms, which need not move together. In the case of El Salvador and Guatemala, the USA had very few military personnel stationed in the countries. In Honduras, there was at times a larger contingent of US troops stationed, but the number fluctuated over the years. The Philippines provides a better example of how a large contingent of US military personnel makes Americans vulnerable to terrorist attacks by domestic terrorists. Before the USA reduced its personnel stationed in the Philippines from around 15,000 (equivalent to about 12% of the domestic armed forces) to below 300 from 1993 onwards, in tandem with reducing its military aid from about 10% relative to domestic military expenditures to much lower levels, US citizens suffered a total of 59 terrorist attacks between 1978 and 1992. In contrast, there were only 20 anti-American terrorist attacks from 1993 to 2005, despite the continuing civil conflict between the Philippine government and rebel groups.

A more recent example is Saudi Arabia. In the wake of the invasion of Kuwait by Iraqi forces and the ensuing Gulf War, the USA temporarily stationed a large number of troops in the country. These were soon afterwards decreased, but the USA continued to deliver large numbers of weapons to the Saudi regime throughout the 1990s. From 1995 to 2000, 43 Americans in total were killed by Saudi terrorists, making Saudi Arabia one of the top countries of anti-American terrorist origin even before the 9/11 attacks. There were no recorded attacks by Saudi terrorists on Americans before 1995.

| Table I. Cross-correlation of dependence on US military aid, personnel and arms exports, 1978–2005 |
|-----------------------------------|-----------------|-----------------|
|                                   | Military aid    | Arms exports    | Military personnel |
| Military aid dependence          | 1.00            | 0.14            | 1.00              |
| Arms export dependence           | 0.00            | 0.02            | 1.00              |
| Military personnel dependence    |                 |                 |                   |

This pattern between US military support and anti-American terrorism is not confined to these selected country cases but can be observed more generally. Whereas the group of top 20 countries in terms of killings of US citizens have a mean ratio of US military troops relative to domestic troops of just below 3%, the remaining countries have an average of just 1.2%. The top 20 receive an average of 8.2% of US military aid and 5.8% of US arms exports relative to domestic military expenditures, the rest only 2.5% and 2.2%, respectively. A similar pattern emerges for the group of top 20 countries in terms of terrorist incidents.

The illustrative evidence presented above is indicative and consistent with our argument, but this brief discussion does not provide a sufficient test of the hypothesis derived from our theory. We thus move to a multivariate statistical analysis.

Analysis
We can look at our empirical estimation problem from two perspectives. On the one hand, US arms exports, military aid and military personnel stationed abroad can have an independent and additive effect on the supported government’s ability to survive the political challenge by a radical group. On the other hand, however, one could argue that we are interested in an unobservable latent variable, which can be approximated by these three observable variables. A simple cross-correlation may help to decide whether our three military support variables can be unified to a sensible ‘latent’ dimension. Table I shows the cross-correlation of US military aid, arms exports and military personnel. It reveals that for the United States, military aid, arms exports and military personnel appear to be substitutes rather than complements. The partial correlation coefficients remain low if we exclude relatively wealthy countries (which do not need military aid) from the analysis, even though the correlation between military aid and arms exports increases slightly.
Accordingly, this simple analysis suggests that our three military support variables cannot usefully be combined into their principal components or a single factor score. In turn, we may use these three variables simultaneously in one regression without having to fear that the co-variation leads to inefficient and thus unreliable estimates (Plümper & Troeger, 2007). This interpretation finds support by a principal component analysis, which suggests the existence of two principal components (an ‘aid–arms exports’ dimension and a military personnel dimension). Similarly, a maximum likelihood factor analysis shows high values of ‘uniqueness’, suggesting that the factor score inappropriately describes the original variables.

We therefore conduct only the first type of analysis, where we use the various military assistance variables as independent and additive determinants of terrorist activities on Americans. Table II displays the results of models, in which we first include one ‘military support’ variable at a time for the number of US citizens killed as dependent variable. The exclusion of other military support variables is unlikely to bias the estimates due to the low correlation between these variables. Nevertheless, we also show a model with all military support variables entered simultaneously.

Before we come to our variables of main interest and thus to our hypothesis, we briefly discuss results on the control variables. More populous countries account for more anti-American terrorism, all other things equal, as expected. The USA seems to be an outlier with respect to the impact of distance on terrorism. In a much larger sample including all country dyads for which data were available, we found a highly significantly negative effect of distance on terror incidents and victims (Neumayer & Plümper, 2009; Plümper & Neumayer, 2010). The global reach and projection of US power apparently invalidates the law of distance that applies to terror attacks against other countries in the world. Interestingly, in line with other studies we also find that per capita income in the potential origin countries of terrorists has no statistically significant impact. This should at least caution against suggestions that international terrorism will wane with economic development in foreign poor countries – a position at times held by (among others) former UN General Secretary Kofi Annan, and US Presidents Bill Clinton and George W Bush (see Piazza, 2006). Our results do provide some weak support, however, to those who suggest that a higher level of democracy in foreign countries will lower anti-American attacks (see Gause, 2005).

Table II. Negative binomial estimates of number of US citizens killed in terrorist attacks

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<th></th>
<th>Model k1</th>
<th>Model k2</th>
<th>Model k3</th>
<th>Model k4</th>
</tr>
</thead>
<tbody>
<tr>
<td>In population of terrorists’ home country</td>
<td>0.707 (0.152)***</td>
<td>0.612 (0.146)***</td>
<td>0.645 (0.155)***</td>
<td>0.746 (0.153)***</td>
</tr>
<tr>
<td>In distance between terrorists’ home country and USA</td>
<td>0.098 (0.135)</td>
<td>0.028 (0.225)</td>
<td>−0.034 (0.361)</td>
<td>0.126 (0.119)</td>
</tr>
<tr>
<td>In per capita income of terrorists’ home country</td>
<td>0.177 (0.178)</td>
<td>0.064 (0.164)</td>
<td>0.112 (0.167)</td>
<td>0.102 (0.184)</td>
</tr>
<tr>
<td>Level of democracy in terrorists’ home country</td>
<td>−0.078 (0.035)*</td>
<td>−0.061 (0.033)*</td>
<td>−0.071 (0.031)*</td>
<td>−0.087 (0.035)*</td>
</tr>
<tr>
<td>Terrorists’ home country dependence on US military aid</td>
<td>0.055 (0.019) **</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terrorists’ home country dependence on US arms exports</td>
<td>0.078 (0.028)**</td>
<td>0.078 (0.028)**</td>
<td>0.039 (0.021)*</td>
<td></td>
</tr>
<tr>
<td>Terrorists’ home country dependence on US military personnel</td>
<td>0.029 (0.009)***</td>
<td>0.034 (0.006)***</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ln alpha</td>
<td>3.561 (0.279)***</td>
<td>3.657 (0.270)***</td>
<td>3.695 (0.287)***</td>
<td>3.540 (0.273)***</td>
</tr>
<tr>
<td>N obs.</td>
<td>3,360</td>
<td>3,360</td>
<td>3,341</td>
<td>3,341</td>
</tr>
<tr>
<td>Wald χ²</td>
<td>30.32***</td>
<td>38.80***</td>
<td>25.32***</td>
<td>60.97***</td>
</tr>
<tr>
<td>–Log likelihood</td>
<td>549.05</td>
<td>554.45</td>
<td>563.96</td>
<td>539.39</td>
</tr>
</tbody>
</table>

Standard errors clustered on terrorists’ home country in parentheses.
*p(z) < 0.1, **p(z) < 0.01, ***p(z) < 0.001.
Turning to our variables of main interest, we find evidence in favour of our hypothesis. In particular, the three ‘military support’ variables exert a positive impact on the number of US victims. All three show a significant and positive relation to the number of American terror victims, as our theory predicts. The three variables also exert a substantively important influence on the dependent variable. A one standard deviation increase in the measure of military aid, arms exports and military personnel raises the expected count of anti-American terrorism by 135\%, 109\% and 24\%, respectively.

Model 4 of Table II shows that the predictions of our theory still find support if we simultaneously include military support. An analysis of substantive effects based on Model 4 allows one to gauge the relative importance of the three measures of military support when entered together in the estimations. A one standard deviation increase in US military aid raises the expected count of anti-American terrorism most by 114\%, followed by arms exports and military personnel, in which a one standard deviation increase leads to an increase of 45\% and 30\%, respectively. It would thus appear that US military aid matters most for foreign terror on Americans.

In Table III, we account for the fact that terrorists can attack Americans without necessarily managing to kill them. It repeats the models from Table II, but this time with terrorist incidents involving American citizens as the dependent variable.

As can be seen, the results are sufficiently similar. Most importantly, our hypothesis still finds support. In the model with all support variables enclosed, the coefficient of the US arms exports variable becomes marginally insignificant. One potential explanation for this finding is that arms exports are the weakest proxy for military support. If the USA does not provide arms, the odds are that other countries will step in and sell them to a government willing to pay. Thus, the entrepreneurs of terror have not as much to gain from attacking the provider of weapons to the government it is in conflict with, compared to foreign providers of other forms of military support. Terror entrepreneurs should respond most clearly to military aid and the presence of foreign troops. The former often provides military training for the government’s troops, while the latter may support the home government directly in case of a severe domestic threat.\footnote{Another interesting difference is that democracy is no longer statistically significant for incidents, whereas it was significant for killings. This could reflect the fact that Islamist terrorists tend to come from autocratic countries and Islamist terrorism on average kills more people per terrorist act than other terrorism, even without 9/11 (Rapoport, 2004; Enders & Sandler, 2006b).}

<table>
<thead>
<tr>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>In population of terrorists’ home country</td>
<td>0.668 (0.130)***</td>
<td>0.617 (0.139)***</td>
<td>0.645 (0.143)***</td>
</tr>
<tr>
<td>In distance between terrorists’ home country and USA</td>
<td>-0.103 (0.442)</td>
<td>-0.188 (0.586)</td>
<td>-0.215 (0.617)</td>
</tr>
<tr>
<td>In per capita income of terrorists’ home country</td>
<td>0.154 (0.103)</td>
<td>0.066 (0.108)</td>
<td>0.076 (0.113)</td>
</tr>
<tr>
<td>Level of democracy in terrorists’ home country</td>
<td>-0.001 (0.023)</td>
<td>0.010 (0.023)</td>
<td>0.006 (0.023)</td>
</tr>
<tr>
<td>Terrorists’ home country dependence on US military aid</td>
<td>0.044 (0.013)**</td>
<td>0.038 (0.014)**</td>
<td>0.024 (0.016)</td>
</tr>
<tr>
<td>Terrorists’ home country dependence on US arms exports</td>
<td>0.044 (0.016)**</td>
<td>0.027 (0.009)**</td>
<td>0.027 (0.006)***</td>
</tr>
<tr>
<td>Terrorists’ home country dependence on US military personnel</td>
<td>     </td>
<td>     </td>
<td>     </td>
</tr>
<tr>
<td>Intercept</td>
<td>-12.766 (3.672)***</td>
<td>-10.522 (4.598)*</td>
<td>-10.743 (4.907)*</td>
</tr>
<tr>
<td>ln alpha</td>
<td>2.219 (0.131)***</td>
<td>2.269 (0.128)***</td>
<td>2.269 (0.134)***</td>
</tr>
<tr>
<td>N obs.</td>
<td>3,360</td>
<td>3,360</td>
<td>3,483</td>
</tr>
<tr>
<td>Wald chi²</td>
<td>47.48***</td>
<td>40.91***</td>
<td>38.63***</td>
</tr>
<tr>
<td>–Log likelihood</td>
<td>1765.98</td>
<td>1779.53</td>
<td>1802.06</td>
</tr>
</tbody>
</table>

Standard errors clustered on terrorists’ home country in parentheses.
\*p(z) < 0.1, **p(z) < 0.01, ***p(z) < 0.001. See Table II for the model notation.
In terms of substantive importance, the estimations on anti-American terror incidents confirm the results from the estimations on terrorist killings of Americans: military aid has the strongest impact, followed by military personnel and arms exports, which are roughly equal in substantive importance for incidents, but this is subject to the caveat regarding arms exports stated above.

**Robustness**

Our results are robust to a number of changes to the research design. To avoid multiple counting, only the first nationality of the terrorists determines the origin country of a terrorist act. This has the disadvantage that information on the second and third primary nationality of terrorists, also coded in *Iterate*, is lost, but the vast majority of terrorist acts involve only one nationality of terrorists. Our results are robust to attributing terrorist acts to all the first three main nationalities of terrorists simultaneously. We exclude the few cases for which *Iterate* does not provide information on the primary nationality of terrorists or victims. Also, we do not include terrorist acts committed by ‘Indeterminate Arabs, Palestine’ in the estimations. Our results remain robust if we allocate each of these terrorist attacks to a randomly drawn Arab country.

An additional problem occurs because in a small number of cases, *Iterate* indicates that Americans were killed, but states the exact number as unknown. The 9/11 terrorist attacks are the most prominent case: 189 American victims are stated (those on the planes), but for those killed on the ground, *Iterate* does not state a number, probably because it remains unknown how many of the 2,973 non-terrorists killed in total were Americans (National Commission on Terrorist Attacks upon the United States, 2004: 552). Less clear is why *Iterate* attributes the attacks to the group of ‘Indeterminate Arabs’, when 15 of the 19 hijackers were Saudi Arabian. Our results are robust toward counting, as a conservative short cut, two thirds of victims as Americans and allocating the attacks to Saudi Arabia as the origin country.

Anti-American terrorism is a relatively rare event, and some countries never produce any such terrorism. Our dependent variables have thus a large number of zeros and some dyads only have zeros. We therefore also estimated the models with all the three military support variables included simultaneously with a zero-inflated negative binomial estimator. This is a maximum likelihood estimator, which assumes that some observations take on a value of zero with probability of 1 (Long & Freese, 2006). The zero-inflated model would thus be appropriate if there were a variable which determined with certainty that no anti-American terror occurred for some cases. This is a problematic assumption, since we see no theoretical reason why a particular dyad-year has a probability of 1 of not producing any anti-American terror. Nevertheless, we employed this estimator in robustness tests as it is often (if falsely) used in situations where the share of zeros is deemed to be ‘large’. We found that the results from the zero-inflated negative binomial estimator were consistent with their negative binomial equivalent.\footnote{In a zero-inflated negative binomial regression model, a variable can affect the odds of always zero and/or affect the expected count for those not always zero, as there are two estimating equations (inflation and count equation). For the total number of killings of Americans as dependent variable, we found that military aid and military personnel raise the expected count of killings for those that are not always zero. For the total number of anti-American terror incidents as dependent variable, these military support variables were marginally insignificant in the count equation, but they significantly lower the odds of always zero in the inflation equation and thus raise the likelihood of terror incidents ever occurring.}

The USA often renders military support to governments fighting a civil or international war. If such armed conflict raises general levels of violence, then US military support will probably be correlated with an elevated risk of terrorism, while both are co-determined by armed conflict. This raises the question of whether our results spuriously pick up an effect of warfare. Yet, our results, while confirming that warfare increases terrorism, are robust to including both small and large international and civil armed conflicts, using data from the Uppsala/PRIO dataset (Gleditsch et al., 2002).

Anti-American terrorism does not always remain limited to terror groups that oppose their domestic government. The US State Department also accuses several foreign governments of sponsoring terrorism. If we include a dummy variable, which is set to 1 for years in which another country was accused of sponsoring terrorism (data from Office of the Coordinator for Counterterrorism, various years), results remain substantively unchanged. The dummy variable itself is never statistically significantly different from zero, suggesting that state sponsorship of terrorism has no significant effect on the number of Americans killed. This could be because state sponsorship of terrorism remains unimportant or the US allegations point in a false direction or these governments sponsor anti-American terrorism by nationals other than their own. Unfortunately, because of the clandestine nature of such activities, we
cannot possibly control for state sponsorship of terror by nationals other than the sponsoring state.

Finally, one might also wonder whether our results suffer from reverse causality bias. Perhaps, instead of raising the strategic benefits to foreign terrorists and thus indirectly leading to anti-American terrorism, US military support goes to countries that are the major sources of anti-American terrorism, with the intention to boost their counter-terrorism capacity. If such reverse causality exists, then it should bias the coefficients of our military support variables upwards. We stress that US military support going to foreign allies that are faced by a high or increasing domestic terrorist threat does not constitute reverse causality, but is fully consistent with our theory. There is potential reverse causality if, and only if, more US military support goes to countries from which high or increasing terror on Americans emanates. The standard textbook approach to endogeneity recommends using instrumental variables for the offending explanatory variables. As almost always, valid and efficient instruments are very difficult to find. We tackled this potential problem with two different approaches. First, we used a two-stage instrumental variable negative binomial approach, in which we used the relevant US military support variables lagged by ten years. This provides a good instrument for short-term or temporary increases in US military support to countries that have experienced major anti-American terrorism, because practically no anti-American terror campaign included in our dataset lasts longer than a period of ten years. All the military support variables remain statistically significant in the instrumental variable regressions, albeit at lower $z$-ratios. Second, we used another approach that does not depend on instrumental variables, the validity of which can always be contested. If reverse causality existed, then it should have become much more pronounced after the attacks of 9/11 when the USA stepped up military support to countries suffering from terrorist threats, particularly threats to US citizens, and willing to join the USA in its global ‘war on terror’. As a consequence, the upward bias in the estimated coefficients for the military support variables should be much more pronounced in the period 2002 onwards. In order to conduct this indirect test of reverse causality, we interacted all military support variables with a dummy variable for the post-9/11 years (2002 to 2005). However, these interaction effects were never statistically significant. Additionally, we tested whether it makes any difference to our results if we restrict the sample to the period until 2001, thus excluding the years in which potential reverse causality, if at all present, is likely to have been strongest. Again, the results remain largely unaffected. Together, we take this as evidence that our results are not spuriously driven by reverse causality bias.

**Extensions**

Of course, the logic of our strategic theory is not confined to American military support for foreign governments and foreign terror on Americans. It extends to military support from other countries to foreign governments and therefore to foreign terror on citizens from these other supporting countries. We restricted our analysis here to the US case because for the USA, data on military personnel stationed abroad and military aid given are available. Other countries do not report such statistics, and reliable data are not readily available from third parties. However, we have data on bilateral arms exports from the ten major arms exporters, taken from SIPRI (2007). If we estimate a model of foreign terror on individuals from these major arms exporters (other than the USA), then consistent with our theory we find that a larger value of arms exports to domestic military expenditures raises terror from the arms importing country on individuals from the arms exporting country. Moreover, in Plümper & Neumayer (2010) we demonstrate for a global sample that countries that support each other (as proxied by military alliances) are more likely to encounter terrorist attacks from foreign terrorists of the allied countries and the more so the militarily stronger the foreign ally relative to the terrorists’ home country.

**Conclusion**

This article has argued that terrorist groups aim at gaining a significant influence on their home country’s political system or policies and that, therefore, they have an incentive to attack targets from foreign countries if the foreign government militarily supports the domestic government of the terrorists’ home country. American military support to foreign governments creates an incentive for foreign terrorist groups to attack Americans.

Our study is, to our knowledge, the first to analyze quantitatively the link between American foreign military policy and foreign terror on Americans. Only regression analyses in a sample with large spatio-temporal variation can identify systematic patterns, even though this of course does not prove the causal mechanism to be correct. Rather, we have empirically demonstrated that the more governments in other countries are dependent on US support in terms of military aid, arms exports and stationed military personnel, the more attacks
against Americans and the more killings of Americans by terrorists from these countries can be expected. We therefore found no evidence for rejecting our theory.

Data constraints on forms of military support other than arms exports prevent us from undertaking a similar study for other powers that militarily support foreign governments. However, the results from our analysis and the policy implications should, to mention but two examples, similarly apply to anti-Russian terror in response to Russia’s support for Central Asian governments in conflict with domestic terrorists or to French support for Algeria and Lebanon (see Shughart, 2006).

What are the policy implications of our analysis? Our results suggest that Americans will, on average, be less at risk of terrorism if the USA reduces or even withdraws its military support from countries whose governments are heavily dependent on US support. The results do not support those who argue that ‘there is no reason to assume that terrorist enemies would let America off the hook if it retreated’ (Betts, 2002: 34), even though a reduction in anti-American terrorism may come with a significant time delay after the USA retreats. In the short run, terror organizations may even increase the number and severity of attacks on US targets in order to demonstrate to their peers a causal link between their attacks and US retreat. In the long run, however, we expect terrorist activities against American targets to decrease, because the strategic benefit from attacking Americans declines as America reduces its military support. Note, however, that if terror groups such as Al Qaeda have wider regional ambitions, then withdrawing military support merely from one country in the region without reducing support for other countries simultaneously is unlikely to reduce the terrorists’ incentive to target Americans.

It is an entirely different question whether withdrawing military support from countries in which governments face violent opposition from terror groups serves the USA’s best interests. The benefit of reduced risk of terrorism needs to be carefully balanced against the costs of exposing a weakened government to the terrorists’ challenge. The political, economic and social gains from supporting political friends may outweigh the costs of foreign terror on Americans.

Acknowledgments

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References


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