Web Appendix: Arms Race Data and Coding Procedures for the article, "Taking Arms Against a Sea of Troubles: Conventional Arms Races during Periods of Rivalry."

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This Web Appendix supports, "Taking Arms Against a Sea of Troubles: Conventional Arms Races during Periods of Rivalry," by describing the methods we used to generate the arms race dataset for the article. We proceed in this discussion through a series of steps we followed in creating the data. First, we briefly describe the selection of rivalry dyads in which arms races may be taking place – Step One. We then outline the two criteria – one quantitative (Step Two) and one qualitative (Step Three) – used to identify arms race cases. Finally, we conclude with a description of the overall dataset and a list of works consulted to confirm interdependent arming.

I. CODING PROCEDURES

Step One – Identifying Cases of Strategic rivalry

We began construction of the arms race dataset by focusing on a sample of cases most likely to contain all dyads undergoing interdependent and hostile arming – Thompson's (2001) list of strategic rivalry dyads. Thompson argues that there are three basic criteria by which one state must view the target state in order for the dyad to be considered a strategic rivalry: the states must view each other as competitors, as sources of actual or latent threats that pose some possibility of becoming militarized, and as enemies. We feel that each of these criteria also apply well to the types of cases most likely to be arms races.

Thompson does not employ *a priori* duration criteria for rivalry termination. Each dyadic rivalry is also independent of others, and the duration is dictated by policy aims of the individual states involved. Since domestic constituencies may disagree about who the target rival state should be, only the opinions of the leadership in control of the government are considered. A rivalry that develops during a war is not included unless the rivalry outlasted the war. Rivalry onset and termination is based on the perceptions and policy statements of decision makers in the respective governments. Finally, Thompson assumes the rivalry has not terminated unless there is explicit indications that threat perceptions and hostility levels have decreased considerably. This is accomplished by examining government policy statements for clear evidence that a competitive atmosphere no long exists.

Thompson's definition of rivalry provides an important added advantage for our analyses since his definition is not based on dispute onset but rather on the analysis of historical records. This enables us to test whether arms races can prevent the occurrence of dispute as well as their effects on dispute escalation. In all, we generated 6,588 strategic rival dyad-years between 1816 and 1992 from Thompson's (2001) list of cases. These dyad-

years constitute the sample we used for isolating the mutual military buildups described in Step Two below.

Step Two – Isolating All Mutual Military Buildups Occurring During Strategic Rivalry We use two indicators to identify whether an arms race has taken place within a rivalry. First, both states must have increased their military spending, personnel, or both, by 8% or more in each year of a three-year period. Diehl (1983) originally used the 8% figure in order to prevent capturing gradual increases in expenditures due to inflation or routine increases aimed at upgrading equipment; three-year periods also make it more likely that we capture single incidents of arming. As we note in the article, we do not assume that 8% has any great significance in terms of war or arms race initiation. Rather, we wish to avoid complicating this literature still more by creating yet another measure of military increases, and the Diehl measurement allows for a sample size that is reasonably large for inference but still small enough for establishing interdependence using the qualitative examinations we discuss below.

Using Thompson's (2001) list of strategic rivals, we isolated 108 separate instances of dyads engaged in mutual military buildups over time periods lasting three years or more; these cases comprised 439 of the 6,588 total strategic rivalry dyad-years. Of course as Diehl (1983) notes well, mutual military buildups are not the same as arms races. Two states may be arming against each other, with each other against a third party, or may just be coincidentally arming. To determine which cases of mutual military buildup constitute arms races, we proceed to Step Three and establish the existence of interdependent arming by consulting news accounts contemporary to the buildups and historical reviews of individual state foreign policies.

Step Three - Mutual Buildup or Arms Race? A look at the record...

Our second indicator for identifying arms races in strategic rival dyads is based on evaluations of historical accounts and contemporary news sources during times of mutual arming. We should emphasize that the qualitative investigation was used only to establish or disprove interdependence in cases we had identified with the quantitative criterion used in Step Two above. In other words, the qualitative investigation only eliminated arms race cases from our data set; no cases were added with these analyses.

When available, we consulted government documents, accounts presented by historians, and reputable news services (e.g., The New York Times, BBC, and Agence France Presse, and Keesing's) in order to determine the nature of the rival relationship during the buildups. We conducted extensive searches of news articles for any statements from government officials declaring the purpose of their military buildup, with a notation by government officials of the rival as the target of the arming serving as confirmation for cases of arms race. Most of our news archives provide adequate search engines only for the post World War II era, so we therefore supplemented our case searches using secondary historical accounts for the mutual military buildup cases from 1816 to 1945. A complete list of both the news sources and the secondary historical information used to confirm each case, or eliminate coincidental buildup cases, is included at the end of this appendix.

The cases eliminated from our dataset by the qualitative criterion for our study can be divided into two categories. In some cases we were unable to find information on why the two states were arming at an escalated level. We eliminated each of these cases. For instance, our 8% buildup criterion indicated that Greece engaged in mutual buildups with both Yugoslavia and Bulgaria during World War I and, in the case of Yugoslavia, extending until 1921. While it could have been the case that Greece was arming in response to their long-term rivals, especially following the two Balkan Wars, our search for historical corroboration found no evidence supporting the conclusion that either Yugoslavia or Bulgaria were arming in response to Greece. The Greek countryside was mired in a civil conflict, with half the country supporting the Alliance (and Bulgaria) and the other half backing the Entente (and Yugoslavia), and in the case of Yugoslavia and Greece, they had established cordial relations following the post-war unification (Pavlowitch 1988; 1999). All in all, we found no evidence indicating the interdependence necessary to code these mutual military buildups as arms races. Our qualitative examinations excluded 20 mutual military buildups as cases of arms race for lack of evidence; these cases are listed in Appendix Table 1 below:

Appendix Table 1: Cases of mutual military buildups eliminated from arms race data because no confirming historical evidence could be found

| | | | | State #1 | | State #2 | |
|--------|------------|-----------------|-------|--------------|-------|--------------|------------|
| Case # | Start Year | End Year | Ccode | State Name | Ccode | State Name | Arms Race? |
| 1 | 1944 | 1947 | 100 | Colombia | 101 | Venezuela | No |
| 2 | 1949 | 1951 | 100 | Colombia | 101 | Venezuela | No |
| 3 | 1912 | 1914 | 145 | Bolivia | 150 | Paraguay | No |
| 4 | 1912 | 1914 | 145 | Bolivia | 155 | Chile | No |
| 5 | 1940 | 1942 | 155 | Chile | 160 | Argentina | No |
| 6 | 1960 | 1962 | 155 | Chile | 160 | Argentina | No |
| 7 | 1969 | 1973 | 260 | West Germany | 265 | East Germany | No |
| 8 | 1914 | 1921 | 345 | Yugoslavia | 350 | Greece | No |
| 9 | 1914 | 1916 | 350 | Greece | 355 | Bulgaria | No |
| 10 | 1947 | 1951 | 350 | Greece | 355 | Bulgaria | No |
| 11 | 1973 | 1975 | 471 | Cameroon | 475 | Nigeria | No |
| 12 | 1974 | 1976 | 500 | Uganda | 625 | Sudan | No |
| 13 | 1972 | 1974 | 501 | Kenya | 520 | Somalia | No |
| 15 | 1971 | 1975 | 510 | Tanzania | 553 | Malawi | No |
| 16 | 1976 | 1978 | 551 | Zambia | 560 | South Africa | No |
| 17 | 1963 | 1965 | 645 | Iraq | 651 | Egypt | No |
| 18 | 1983 | 1985 | 651 | Egypt | 652 | Syria | No |
| 20 | 1968 | 1970 | 710 | China | 713 | Taiwan | No |

In a second set of cases, we found evidence that one or both of the states were arming for reasons totally unrelated to the rivalry dynamic. For example, both Iraq and Saudi Arabia rapidly increased their military size between 1950 and 1954. Although these countries were strategic rivals during this time period, our historical analyses indicate that this mutual military buildup was not interdependent. In Saudi Arabia, the rapid military buildup was targeted at rivals Egypt and Yemen. The Saudi government purchased large

numbers of weapons from the United States and Great Britain to respond to threats from Nasser's Egypt and Yemen (Safran 1985). We could find no evidence that Saudi Arabia's military buildup was in response to the concurrent military buildup in Iraq. Since Saudi Arabia's military buildup was a response to pressures outside the Iraq-Saudi Arabia rivalry dynamic, we eliminated this case from our dataset. We eliminated a total of 23 cases of possible arms race using historical evidence suggesting the mutual military buildups were not directed at the rival state; these cases are listed in Appendix Table 2 below:

Appendix Table 2: Cases of mutual military buildups eliminated from arms race data because of disconfirming historical evidence

| | | | | State #1 | State #2 | | |
|--------|------------|-----------------|-------|----------------|----------|----------------|------------|
| Case # | Start Year | End Year | Ccode | State Name | Ccode | State Name | Arms Race? |
| 1 | 1917 | 1919 | 2 | United States | 740 | Japan | No |
| 2 | 1943 | 1945 | 130 | Ecuador | 135 | Peru | No |
| 3 | 1937 | 1944 | 200 | United Kingdom | 365 | Russia | No |
| 4 | 1914 | 1918 | 220 | France | 325 | Italy | No |
| 5 | 1962 | 1967 | 230 | Spain | 600 | Morocco | No |
| 6 | 1986 | 1988 | 230 | Spain | 600 | Morocco | No |
| 7 | 1936 | 1939 | 310 | Hungary | 315 | Czechoslovakia | No |
| 8 | 1934 | 1936 | 345 | Yugoslavia | 350 | Greece | No |
| 9 | 1939 | 1941 | 345 | Yugoslavia | 350 | Greece | No |
| 10 | 1934 | 1938 | 345 | Yugoslavia | 640 | Turkey | No |
| 11 | 1934 | 1936 | 350 | Greece | 640 | Turkey | No |
| 12 | 1949 | 1951 | 365 | Russia | 710 | China | No |
| 13 | 1964 | 1966 | 483 | Chad | 620 | Libya | No |
| 14 | 1971 | 1974 | 620 | Libya | 651 | Egypt | No |
| 15 | 1964 | 1970 | 630 | Iran | 651 | Egypt | No |
| 16 | 1972 | 1974 | 630 | Iran | 651 | Egypt | No |
| 17 | 1982 | 1984 | 645 | Iraq | 651 | Egypt | No |
| 18 | 1979 | 1981 | 645 | Iraq | 666 | Israel | No |
| 19 | 1950 | 1954 | 645 | Iraq | 670 | Saudi Arabia | No |
| 20 | 1963 | 1965 | 645 | Iraq | 670 | Saudi Arabia | No |
| 21 | 1972 | 1974 | 651 | Egypt | 652 | Syria | No |
| 22 | 1966 | 1969 | 651 | Egypt | 663 | Jordan | No |
| 23 | 1972 | 1974 | 652 | Syria | 663 | Jordan | No |

It is of note that the cases we eliminated span all areas of the globe and both pre- and post-World War II time periods, giving some added assurance that no particular trend in our coding procedures is driving these results. The only real trends we could find in these cases are the overwhelming effects of the world wars and the ever changing dynamic of Middle Eastern rivalries, in which Israel is often the target of arms and personnel increases even though most Arab states have other Arab rivals as well.

II. A DESCRIPTION OF THE ARMS RACE DATASET

Using our two criteria -8% buildups over three years and historical confirmation of interdependence - we found a total of 71 cases of arms race. These arms race cases last a

mean of 4.2 years in our data set, ranging from 3 years (our arbitrary minimum duration) to 9 years. In total, we found 289 dyad-years of arms races during 6, 293 dyad-years of strategic rivalry. A list of these cases is presented in Table 3 below.

Table 3 sorts the arms races by strategic rival code, lowest country code of the rivalry first. We include information on the type of military increases (personnel, expenditures, or both) for both states in the dyad, and this data suggests an interesting trend – military personnel increases are not as numerous as military expenditure increases in the dataset. Of the 142 state opportunities for increases of some kind (71 dyadic cases of arms racing rivals), 102 used only military expenditures to target their rival state while 15 used only military personnel increases. The remaining 25 state opportunities used both military personnel and military expenditures to race their rivals.

Appendix Table 3: List of arms race cases

| Race # | Ccode1 | State Name | Ccode2 | State Name | Years of Arms Race | |
|--------|--------|-----------------|--------|-----------------|--------------------|------|
| 1 | 200 | United Kingdom | 365 | Russia | 1854 | 1856 |
| 2 | 140 | Brazil | 150 | Paraguay | 1864 | 1866 |
| 3 | 220 | France | 300 | Austria-Hungary | 1912 | 1917 |
| 4 | 300 | Austria-Hungary | 365 | Russia | 1912 | 1915 |
| 5 | 220 | France | 255 | Germany | 1913 | 1918 |
| 6 | 255 | Germany | 365 | Russia | 1913 | 1915 |
| 7 | 200 | United Kingdom | 255 | Germany | 1914 | 1917 |
| 8 | 300 | Austria-Hungary | 325 | Italy | 1914 | 1917 |
| 9 | 300 | Austria-Hungary | 345 | Serbia | 1914 | 1917 |
| 10 | 345 | Serbia | 355 | Bulgaria | 1914 | 1916 |
| 11 | 355 | Bulgaria | 360 | Romania | 1914 | 1916 |
| 12 | 325 | Italy | 345 | Yugoslavia | 1916 | 1921 |
| 13 | 200 | United Kingdom | 325 | Italy | 1934 | 1936 |
| 14 | 200 | United Kingdom | 255 | Germany | 1934 | 1942 |
| 15 | 220 | France | 325 | Italy | 1934 | 1936 |
| 16 | 220 | France | 255 | Germany | 1934 | 1936 |
| 17 | 310 | Hungary | 345 | Yugoslavia | 1934 | 1939 |
| 18 | 325 | Italy | 640 | Turkey | 1934 | 1936 |
| 19 | 325 | Italy | 345 | Yugoslavia | 1934 | 1936 |
| 20 | 345 | Yugoslavia | 355 | Bulgaria | 1934 | 1937 |
| 21 | 350 | Greece | 355 | Bulgaria | 1934 | 1936 |
| 22 | 355 | Bulgaria | 640 | Turkey | 1934 | 1937 |
| 23 | 255 | Germany | 315 | Czechoslovakia | 1936 | 1939 |
| 24 | 255 | Germany | 365 | Russia | 1937 | 1940 |
| 25 | 2 | United States | 740 | Japan | 1940 | 1944 |
| 26 | 710 | China | 740 | Japan | 1940 | 1944 |
| 27 | 663 | Jordan | 670 | Saudi Arabia | 1949 | 1951 |
| 28 | 520 | Somalia | 530 | Ethiopia | 1961 | 1964 |
| 29 | 710 | China | 750 | India | 1961 | 1964 |
| 30 | 651 | Egypt | 670 | Saudi Arabia | 1962 | 1968 |
| 31 | 645 | Iraq | 666 | Israel | 1963 | 1965 |

| 32 | 645 | Iraq | 690 | Kuwait | 1963 | 1965 |
|----|-----|---------------------|-----|------------------------|------|------|
| 33 | 651 | Egypt | 666 | Israel | 1963 | 1971 |
| 34 | 130 | Ecuador | 135 | Peru | 1964 | 1966 |
| 35 | 500 | Uganda | 625 | Sudan | 1965 | 1968 |
| 36 | 663 | Jordan | 666 | Israel | 1956 | 1958 |
| 37 | 663 | Jordan | 666 | Israel | 1966 | 1969 |
| 38 | 365 | Russia | 710 | China | 1968 | 1970 |
| 39 | 500 | Uganda | 510 | Tanzania | 1970 | 1972 |
| 40 | 230 | Spain | 600 | Morocco | 1971 | 1974 |
| 41 | 678 | Yemen Arab Republic | 680 | Yemen Peoples Republic | 1971 | 1979 |
| 42 | 130 | Ecuador | 135 | Peru | 1972 | 1975 |
| 43 | 350 | Greece | 640 | Turkey | 1972 | 1976 |
| 44 | 520 | Somalia | 530 | Ethiopia | 1972 | 1974 |
| 45 | 600 | Morocco | 615 | Algeria | 1972 | 1977 |
| 46 | 678 | Yeman Arab Republic | 698 | Oman | 1972 | 1976 |
| 47 | 452 | Ghana | 461 | Togo | 1973 | 1977 |
| 48 | 530 | Ethiopia | 625 | Sudan | 1973 | 1975 |
| 49 | 620 | Libya | 625 | Sudan | 1973 | 1976 |
| 50 | 630 | Iran | 645 | Iraq | 1973 | 1978 |
| 51 | 645 | Iraq | 670 | Saudi Arabia | 1973 | 1981 |
| 52 | 645 | Iraq | 652 | Syria | 1973 | 1978 |
| 53 | 645 | Iraq | 690 | Kuwait | 1973 | 1977 |
| 54 | 731 | North Korea | 732 | South Korea | 1973 | 1976 |
| 55 | 432 | Mali | 439 | Burkina Faso | 1975 | 1977 |
| 56 | 541 | Mozambique | 560 | South Africa | 1976 | 1978 |
| 57 | 541 | Mozambique | 552 | Zimbabwe | 1976 | 1978 |
| 58 | 551 | Zambia | 552 | Zimbabwe | 1976 | 1978 |
| 59 | 155 | Chile | 160 | Argentina | 1977 | 1981 |
| 60 | 500 | Uganda | 510 | Tanzania | 1977 | 1979 |
| 61 | 501 | Kenya | 520 | Somalia | 1977 | 1979 |
| 62 | 750 | India | 770 | Pakistan | 1977 | 1980 |
| 63 | 2 | United States | 365 | USSR | 1978 | 1981 |
| 64 | 145 | Bolivia | 155 | Chile | 1978 | 1981 |
| 65 | 160 | Argentina | 200 | United Kingdom | 1978 | 1980 |
| 66 | 483 | Chad | 620 | Libya | 1978 | 1980 |
| 67 | 731 | North Korea | 732 | South Korea | 1978 | 1981 |
| 68 | 93 | Nicaragua | 100 | Colombia | 1979 | 1983 |
| 69 | 100 | Colombia | 101 | Venezuela | 1979 | 1982 |
| 70 | 91 | Honduras | 92 | El Salvador | 1982 | 1984 |
| 71 | 620 | Libya | 651 | Egypt | 1982 | 1984 |
| | 320 | | 50. | -316. | | .001 |

The only temporal clustering in the cases surrounds the two world wars, as the data is distributed somewhat evenly between the Cold War and pre-World War II eras. However, only two of the arms race cases occur prior to 1900, and both involved military personnel increases solely. The dearth of arms race cases in the 19th century may imply a need for future research to re-examine the 8% threshold we used in this research,

especially for arms races involving military personnel only, as this may be too high a threshold. Nevertheless, and as we note in the article, few cases are added by lowering the threshold one or two percentage points, and none of these occur in the 19th century.

We hope to eventually provide more detailed studies of each of the 71 arms races cases, but until then readers and users of the dataset are encouraged to report any errors or provide additional information to us via email at dgibler@uky.edu. Users of the dataset are asked to cite the printed article as reference for the data.

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