<p style="text-align:center">Replication Archive
Goldstein, Rivers, and Tomz
International Organization 61 (2007)</p>

This archive contains data, computer code, and output to replicate the analysis in Judith L. Goldstein, Douglas Rivers, and Michael Tomz, "Institutions and International Relations: Understanding the Effects of the GATT and the WTO on World Trade," *International Organization* 61 (Winter 2007): 37–67. The files in this archive are also available at http://www.stanford.edu/~tomz

All analyses were conducted using Stata Statistical Software version 9.2. The command files were verified on both Unix and Windows operating systems.

DATA: This archive contains one dataset, GRT_IO_2007.dta, in Stata format. The contents of the file are as follows:

```
  obs:        381,656
 vars:             25                               15 Jul 2007 18:22
 size:    48,470,312 (55.2% of memory free)
-------------------------------------------------------------------------------
              storage   display     value
variable name   type    format      label      variable label
-------------------------------------------------------------------------------
name_1          str33   %33s                    NAME_1
name_2          str33   %33s                    NAME_2
tomz_1          int     %10.0g                  Code for country 1
tomz_2          int     %10.0g                  Code for country 2
directed_dyad~d float   %9.0g                   FE: one for each directed dyad
year            int     %10.0g                  YEAR
imports         float   %9.0g                   Imports: log of 1967 US$
gatt_1          str7    %9s                     GATT: Status of country 1
gatt_2          str7    %9s                     GATT: Status of country 2
gatt35_1        byte    %10.0g                  GATT35_1
gatt35_2        byte    %10.0g                  GATT35_2
colorbit        byte    %8.0g                   COL: In same colonial orbit
currencyunion   byte    %10.0g                  Strict currency union (Rose)
gsp             byte    %8.0g                   GSP: Exists in dyad
ptarecip        byte    %8.0g                   Reciprocal PTA
ptanonrecip     byte    %8.0g                   Non-reciprocal PTA
distance        float   %9.0g                   GEO: Log of distance (km)
share_border    byte    %10.0g                  GEO: Countries share land border
landlocked      byte    %8.0g                   GEO: # of landlocked countries
island          byte    %8.0g                   GEO: Number of islands
land_area       float   %9.0g                   GEO: Log Product land area
share_language  byte    %10.0g                  CULT: Main language in common
gdp             float   %9.0g                   ECON: GDP Log product ('67 USD)
industrial_both byte    %8.0g                   ECON: Both industrial
industrial_none byte    %8.0g                   ECON: None industrial
-------------------------------------------------------------------------------
Sorted by:  name_1  name_2  year
```

Case identifiers:

name_1 and name_2: The names of the first and second countries in the dyad

tomz_1 and tomz_2: The 3-digit identification code that uniquely identifies each country

directed_dyad_id: The 6-digit identification code that uniquely identifies each dyad

year: The year of the observation, ranging from 1945 to 2004

Economic variables:

imports: Natural log of imports by country 1 from country 2, in constant 1967 US dollars

gdp: Natural log of the product of the GDP's of the two countries in constant 1967 US dollars

industrial_both: Both countries in the dyad are classified by the IMF as "industrial"

industrial_none: Neither country in the dyad is classified by the IMF as "industrial"

GATT participation variables (see the article for details):

gatt_1 and gatt_2: The GATT participation status of the first and second countries in the dyad
These two variables are string, not numeric, have the following possible values:

orig	Formal member – an original/founding member of GATT
art33	Formal member – entered the GATT through Article XXXIII
art26:5	Formal member – entered the GATT through Article XXVI(5)
wto	Formal member – joined the World Trade Organization
col	Nonmember participant – colonial participant in the GATT
df	Nonmember participant – de facto participant in the GATT
prov	Nonmember participant – provisional member of the GATT
out	Non-participant – not part of the organization

The dataset also indicates the invocation of Article XXXV of the GATT or its current, Article XIII of the World Trade Organization

gatt35_1: Indicates whether country 1 invoked Article XXXV or Article XIII against country 2

gatt35_2: Indicates whether country 2 invoked Article XXXV or Article XIII against country 1

Other international agreement variables (see the article for details):

colorbit: The countries in the dyad are in the same colonial orbit

currencyunion: The countries have a strict currency union, as defined by Andrew Rose

gsp: Trade in the dyad is subject to the Generalized System of Preferences

ptarecip: The countries in the dyad have a reciprocal preferential trade agreement

ptanonrecip: The countries in the dyad have a nonreciprocal preferential trade agreement

Geographic and cultural variables (see the article for details):

distance: The natural log of the distance, in kilometers, between the centroids of the two countries

share_border: The countries in the dyad share a land border

landlocked: The number of landlocked countries in the dyad (0, 1, or 2)

island: The number of island nations in the dyad (0, 1, or 2)

land_area: The natural log of the product of the land areas of the two countries, in square kilometers

share_language: The countries in the dyad have the same primary language

COMPUTER CODE: The archive contains …

> `GRT_IO_2007.do`, a Stata command file that loads `GRT_IO_2007.dta`, creates new variables, and replicates all tables in the article.

> `rc_spline.ado`, a Stata program that computes restricted cubic splines. This program, written by William D. Dupont and W. Dale Plummer, Jr. of Vanderbilt University, is called by GRT_IO_2007.do

> `rc_spline.hlp` is a Stata help file that provides more details about `rc_spline.ado`.

LOG FILES: The archive contains one log file, `GRT_IO_2007.log`, which contains all output associated with the article.

REPLICATION PROCEDURE: To replicate the analysis in the article, deposit the dataset and computer code into a single folder, establish that folder as Stata's working directory, and type `do GRT_IO_2007` at the Stata command prompt. The program will generate a log file and `Figure1.ps`, a postscript version of the figure in the article. (This replication procedure will overwrite any copy of `GRT_IO_2007.log` that exists in the working directory. If you would like to save the original log file for reference, be sure to rename the original log file or store it in a different directory.)

Please direct any questions to Michael Tomz, Stanford University, email tomz@stanford.edu