

# The Dynamic Gravity Dataset: Technical Documentation

## Update Note

### Versions 2.0 and 2.1

#### **Abstract**

This document provides an update to the technical documentation for the Dynamic Gravity dataset, describing changes from Version 1.0 to Versions 2.0 and 2.1. For a full description of the contents and construction of the dataset, see the complete technical documentation for Version 1.0 on the dataset's page at <https://www.usitc.gov/data/gravity/dgd.htm>.

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# 1 Version History

- **May 2021:** Version 2.1 released to correct an error in the geographic distances computed for Romania in Versions 2.0 and 1.0.
- **March 2021:** Version 2.0 released.

## 2 Introduction

The Dynamic Gravity dataset contains a collection of variables describing aspects of countries and territories as well as the ways in which they relate to one-another. Each record in the dataset is defined by a pair of countries or territories and a year. The records themselves are composed of three basic types of variables: identifiers, unilateral characteristics, and bilateral characteristics. The *updated* dataset spans the years 1948–2019 and reflects the *dynamic* nature of the globe by following the ways in which countries have changed during that period. The resulting dataset covers 285 countries and territories, some of which exist in the dataset for only a subset of covered years.<sup>1</sup>

### 2.1 Contents of the Documentation

The updated note begins with a description of main changes to the dataset from Version 1.0 to Version 2.0 in section 2.2 and a table of variables available in Version 1.0 and Version 2.0 of the dataset in section 2.3. The sections that follow are presented in the same format as the full technical documentation for Version 1.0 of the dataset. For the sake of brevity, this note presents and describes only variables that were updated from Version 1.0 to Version 2.0 and how those variables changed. For a full description of the dataset, see full technical documentation for Version 1.0 on the dataset page at <https://www.usitc.gov/data/gravity/dgd.htm>.

The note is divided into six sections, each devoted to a group of related variables. Each of these sections provides details on changes or updates, if any, to variables from Version 1.0 to Version 2.0. Only updates to variables that changed are discussed in detail. Section 3 describes the variables that identify observations in the dataset such as country codes and years. Section 4 describes variables that reflect macroeconomic conditions such as GDP, capital stocks, and population. Section 5 describes variables that reflect geographic characteristics of countries such as distance and borders. Section 6 describes variables that reflect cultural characteristics such as shared languages or colonial relationships. Section 7 describes variables that reflect country or country pair specific trade facilitation measures such as trade agreements or the World Trade Organization. Finally, section 8 describes variables that reflect institutional aspects of countries such as political stability and economic sanctions.

### 2.2 Description of Main Changes

- Subject to availability of underlying data, variables were updated to include years 2017–2019.
- European Union is included as a single entity. Variables for European Union are available starting in 1958—the formation of the European Economic Community (the Common Market) between six original members of the EU—and variables are adjusted to reflect the expansion of the Union over time. The details of how each variable was defined for the European Union are described in their respective sections below.

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<sup>1</sup>The dataset is available for download at [gravity.usitc.gov](https://www.usitc.gov/data/gravity/dgd.htm). For comparisons of this dataset with other existing gravity datasets, see Gurevich and Herman [2018].

- The precision of the trade agreement data has been improved. In particular, additional work was done to better track the timing of the entry and exit of individual countries within trade agreements, particularly when countries entered after the original entry into force of the agreement or exited unilaterally.
- Five new variables were added: *colony\_ever*, *common\_colonizer*, *common\_legal\_origin*, *agree\_fta\_eia*, *agree\_cu\_eia*.
- Five variables were discontinued: *colony\_of\_destination\_current*, *colony\_of\_origin\_current*, *colony\_of\_destination\_after45*, *colony\_of\_origin\_after45*, *polity\_absolute*. All three colony variables were identical due to a lack of variation during the sample period so only one version was retained. *polity\_absolute* was a simple transformation of the remaining Polity variable.
- Minor corrections to existing data:
  - Bulgaria and Greece are now correctly defined as being contiguous (v2.0).
  - Slovenia, Morocco, Guyana, and Western Sahara are no longer erroneously defined as islands (v2.0).
  - Geographic distances for Romainia were about 1/2 of what they should have been but have been corrected (v2.1).

## 2.3 Changes to Variables Included in the Dataset

Table 1 below presents a brief description of variables available in Versions 1.0 and 2.0 of the dataset. Appendix A1 expands on this list for Version 2.0 of the dataset to provide the reader the exact variable names and a brief description of each variable.

Table 1: List of Variables

Variable	Description	Latest Year	
		V1.0	V2.0
<b>Country Identifiers</b>			
<i>country</i>	Name of origin/destination country	2016	2019
<i>iso3</i>	3-digit ISO code of origin/destination country	2016	2019
<i>dynamic_code</i>	Year appropriate 3-digit code of origin/destination country	2016	2019
<i>year</i>	Year of observation	2016	2019
<b>Macroeconomic Indicators</b>			
<i>pop</i>	Population of origin/destination country	2014	2017
<i>capital_cur</i>	Capital stock at current PPP of origin/destination country	2014	2017
<i>capital_const</i>	Capital stock at constant prices of origin/destination country	2014	2017
<i>gdp_pwt_const</i>	Real, inflation-adjusted, PPP-adjusted GDP of origin/destination country (PWT)	2014	2017
<i>gdp_pwt_cur</i>	Real, current, PPP-adjusted GDP of origin/destination country (PWT)	2014	2017
<i>gdp_wdi_const</i>	Real GDP of origin/destination country (WDI)	2015	2018
<i>gdp_wdi_cur</i>	Nominal GDP of origin/destination country (WDI)	2015	2018
<i>gdp_wdi_cap_const</i>	Real GDP per capita of origin/destination country (WDI)	2015	2018

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Table 1 – continued from previous page

Variable	Description	Latest Year	
		v1.0	v2.0
<i>gdp_wdi_cap_cur</i>	Nominal GDP per capita of origin/destination country (WDI)	2015	2018
<b>Geographic Variables</b>			
<i>lat</i>	Latitude coordinate of origin/destination country	2016	2019
<i>lng</i>	Longitude coordinate of origin/destination country	2016	2019
<i>distance</i>	Population weighted distance between country pair	2016	2019
<i>contiguity</i>	Country pair shares a common border	2016	2019
<i>landlocked</i>	Origin/destination country is landlocked	2016	2019
<i>island</i>	Origin/destination country is an island	2016	2019
<i>region</i>	Geographic region of origin/destination country	2016	2019
<b>Cultural Variables</b>			
<i>common_language</i>	Residents of country pair speak at least one common language	2016	2019
<i>colony_of_destination_current</i>	Origin country is a colony of the destination country	2016	
<i>colony_of_origin_current</i>	Destination country is a colony of the origin country	2016	
<i>colony_of_destination_ever</i>	Origin country was ever a colony of the destination country	2016	2019
<i>colony_of_origin_ever</i>	Destination country was ever a colony of the origin country	2016	2019
<i>colony_of_destination_after45</i>	Origin country was a colony of the destination country after 1945	2016	
<i>colony_of_origin_after45</i>	Destination country was a colony of origin country after 1945	2016	
<i>colony_ever</i>	Country pair has been in a colonial relationship		2019
<i>common_colonizer</i>	Country pair has been colonized by a common colonizer		2019
<i>common_legal_origin</i>	Country pair shares common legal origin		2019
<b>Trade Facilitation Variables</b>			
<i>agree_pta</i>	Country pair is in at least one active preferential trade agreement	2016	2019
<i>agree_pta_goods</i>	Country pair is in at least one active preferential trade agreement covering goods	2016	2019
<i>agree_pta_services</i>	Country pair is in at least one active preferential trade agreement covering services	2016	2019
<i>agree_cu</i>	Country pair is in at least one customs union	2016	2019
<i>agree_eia</i>	Country pair is in at least one economic integration agreement	2016	2019
<i>agree_fta</i>	Country pair is in at least one free trade agreement	2016	2019
<i>agree_psa</i>	Country pair is in at least one partial scope agreement	2016	2019

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Variable	Description	Latest Year	
		v1.0	v2.0
<i>agree_fta_eia</i>	Country pair is in at least one free trade agreement and at least one economic integration agreement		2019
<i>agree_cu_eia</i>	Country pair is in at least one customs union and at least one economic integration agreement		2019
<i>member_eu</i>	Origin/destination country is a European Union member	2016	2019
<i>member_wto</i>	Origin/destination country is a World Trade Organization member	2016	2019
<i>member_gatt</i>	Origin/destination country is a General Agreement on Tariffs and Trade member	2016	2019
<i>member_eu_joint</i>	Country pair are both members of the European Union	2016	2019
<i>member_wto_joint</i>	Country pair are both members of the World Trade Organization	2016	2019
<i>member_gatt_joint</i>	Country pair are both members of the General Agreement on Tariffs and Trade	2016	2019
<b>Measures of Institutional Stability</b>			
<i>polity</i>	Polity (political stability) score of origin/destination country	2015	2015
<i>polity_absolute</i>	Absolute value of the Polity score of the origin country	2015	
<i>hostility_level</i>	Level of the origin/destination country's hostility toward the destination/origin country	2010	2010
<i>sanction_threat</i>	There exists a threat of sanction between one country in a record towards the other	2013	2013
<i>sanction_threat_trade</i>	There exists a threat of trade sanction between one country in a record towards the other	2013	2013
<i>sanction_imposition</i>	There exists a sanction between one country in a record towards the other	2013	2013
<i>sanction_imposition_trade</i>	There exists a trade sanction between one country in a record towards the other	2013	2013

### 3 Country or Territory and Year Identifiers

#### 3.1 Record Identifiers

In each year  $t$ , a record is uniquely identified by a combination of the ISO alpha-3 code of the origin country,  $iso3_o$ , and the destination country,  $iso3_d$ , assigned to each country and territory by the International Organization for Standardization.<sup>2</sup> While these identifiers are unique within each year, in some instances countries significantly change their geographic and political characteristics while retaining the same ISO alpha-3 codes over time. To better

<sup>2</sup>For details about ISO alpha-3 codes see <https://www.iso.org/home.html>. When matching this dataset with trade or other data, the user should use a combination of  $iso3_o$ ,  $iso3_d$ , and year to uniquely identify each data row. Appendix table C3 provides a concordance between Dynamic Gravity dataset, Comtrade dataset, and WITS dataset for countries where those identifiers differ.

track changes occurring to countries over time, we developed an additional country identifier, *dynamic\_code\_o/d*, described in detail below.

*updated* All variables in this section have been updated to include years 2017–2019. For other changes specific to each variable, see section 3.1.1.

### 3.1.1 Variables

*iso3\_o*: ISO alpha-3 of the origin country.

*updated* In Version 1.0, the ISO alpha-3 identifiers for three countries (Democratic Republic of the Congo, Myanmar, and Romania) changed after certain years within the data corresponding to historical changes in their respective codes. In version two, these changes were removed so that the countries now exhibit the same code in all years (COD, MMR, and ROU, respectively).<sup>3</sup>

*iso3\_d*: ISO alpha-3 of the destination country.

*updated* In Version 1.0, the ISO alpha-3 identifiers for three countries (Democratic Republic of the Congo, Myanmar, and Romania) changed after certain years within the data corresponding to historical changes in their respective codes. In version two, these changes were removed so that the countries now exhibit the same code in all years (COD, MMR, and ROU, respectively).<sup>4</sup>

### 3.1.2 European Union

European Union is identified by *iso3* EUN. *dynamic\_code* for European Union changes over time to reflect the number of countries in the European Union at any given year.<sup>5</sup> Variables for European Union are available starting in 1958—the formation of the European Economic Community (the Common Market) between six original members of the EU.

## 4 Macroeconomic Indicators

This section describes population and economic aggregates of countries and regions that may influence cross-country trade. Currently we include 18 variables measuring macroeconomic performance of the reporting economies. Data sources and construction methodology of these variables are discussed in the following subsections.

### 4.1 Human Population and Capital Stock

*updated* Variables described in this section did not change; underlying data were updated to include additional years. The variables covering population and capital stock were updated using the Penn World Tables (PWT), version 9.1 [Feenstra et al., 2015] to include the years 1950–2017.

#### 4.1.1 European Union

All human population and capital stock variables were updated to include values for the European Union. For each year  $t$ , each variable was constructed as a sum of values of that

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<sup>3</sup>In Version 1.0 Democratic Republic of the Congo was identified using ISO alpha-3 ZAR in 1971–1997; Myanmar was identified using ISO alpha-3 BUR in 1948–1988; Romania was identified using ISO alpha-3 ROM in 1948–2001. See table B2 for more details.

<sup>4</sup>See footnote 3

<sup>5</sup>For a complete set of time-varying codes for the European Union see appendix table B2.

variable in all EU member-countries in year  $t$ , subject to availability of the underlying data for each country.

## 4.2 GDP

*updated* Variables described in this section did not change; underlying data were updated to include additional years. GDP and GDP per capita come from two datasets: the Penn World Tables (PWT) version 9.1 [Feenstra et al., 2015] and the World Bank’s World Development Indicators (WDI) [World Bank, 2016]. Several of the variables— $gdp\_pwt\_const$  and  $gdp\_pwt\_cur$ —were sourced from the PWT. This dataset provides information for the years 1950–2017. The remaining GDP and GDP per capita variables— $gdp\_wdi\_const$ ,  $gdp\_wdi\_cur$ ,  $gdp\_wdi\_cap\_const$ , and  $gdp\_wdi\_cap\_cur$ — were sourced from the WDI. This dataset provides information for the years 1960–2018.

### 4.2.1 European Union

All GDP variables were updated to include values for the European Union. For each year  $t$ , each variable was constructed as a sum of values of that variable in all EU member-countries in year  $t$ , subject to availability of the underlying data for each country.

## 5 Geographic Variables

Geographic variables describe the physical characteristics of a country that affect its level of trade with other countries. There are seven geographic variables in the current dataset that provide measures of geographic determinants of bilateral trade. In particular, they reflect location and connectedness, and are often used as a proxy for shipping or other transport costs. Of these measures, two are bilateral variables that measure relative proximity (*distance* and *contiguity*), while the remaining describe a country’s location and features (*latitude*, *longitude*, *region*, *island*, and *landlocked*).

### 5.1 Location and Distance

*updated* Minor corrections were made to location and distance variables to fix errors present in Version 1.0 of the dataset. No changes were made to definition, construction, or data sources for these variables.

#### 5.1.1 European Union

Latitude, longitude, and distance variables for the European Union were calculated using latitudes, longitudes, and populations of all cities in the EU. These variables change as EU changes through gaining new members.

### 5.2 Border Characteristics

*updated* Minor corrections were made to border characteristics and geographic variables to fix errors present in Version 1.0 of the dataset. No changes were made to definition, construction, or data sources for these variables.

#### 5.2.1 European Union

Border characteristics and geographic variables for European Union were calculated using variables for member countries. By assumption, EU is contiguous with a country if any member country of the EU is contiguous with that country.

## 6 Cultural Variables

This section describes the set of variables that characterize cultural and historical relationships between country pairs. The measures included are those reflecting common spoken languages and former or current colonial ties. The current release contains seven cultural indicators described below.

### 6.1 Common Language

There are no changes to the common language variable in Version 2.0 of the dataset.

#### 6.1.1 European Union

By assumption a country shares a common language with European Union if that country shares a common language with any EU member country in year  $t$ .

### 6.2 Colonial Relationships

*updated* New variables describing colonial relationship are introduced in Version 2.0 of the dataset. These variables were constructed using the same set of data sources as colonial relationship variables available in Version 1.0 of the dataset. Additionally, due to a lack of relevant variation in the source data, several variables (*colony-[...]-current* and *colony-[...]-after45*) were removed due to the fact that both were identical to the remaining variables *colony-[...]-ever*

#### 6.2.1 Variables

*colony\_of\_destination\_current*: *updated* this variable is not available in Version 2.0 of the dataset.

*colony\_of\_origin\_current*: *updated* this variable is not available in Version 2.0 of the dataset.

*colony\_of\_destination\_after45*: *updated* this variable is not available in Version 2.0 of the dataset.

*colony\_of\_origin\_after45*: *updated* this variable is not available in Version 2.0 of the dataset.

*colony\_ever*: The binary variable *colony\_ever* denotes whether a country-pair has ever been in a colonial relationship. That is, it is a non-directional version of the other colonial variables. *updated* new variable in Version 2.0 of the dataset.

*common\_colonizer*: The binary variable *common\_colonizer* denotes whether a country-pair shares at least one common colonizer (past or present). *updated* new variable in Version 2.0 of the dataset.

#### 6.2.2 European Union

By assumption, a country is recorded to have been in a colonial relationship with European Union if that country has been in a colonial relationship with any EU member country in year  $t$ .<sup>6</sup>

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<sup>6</sup>The Netherlands has at some point in history been a colonizer of several EU member states. Therefore, whenever the Netherlands is a colonizer of a country outside the EU, *common\_colonizer* variable takes value of 1 for that country and the EU. For example, Aruba (ABW) is listed as having a common colonizer with



## 6.3 Common Legal Origin

Version 2.0 of the dataset contains a new variable, *common\_legal\_origin*. It is a binary indicator that takes a value of 0 if the two countries do not share a common-origin legal system and a value of 1 if they do. The original data are sourced from LaPorta et.al. (1999).<sup>7</sup> In that data, a country can trace its legal origin to British, French, German, Scandinavian, or Socialist system. In Version 2.0 of this dataset the *common\_legal\_origin* variable was constructed to be 1 if both countries in a country pair have their legal origin identified in the source data and that legal origin is the same for both countries.

## 7 Trade Facilitation Variables

The trade facilitation variables are those that reflect policies put in place by nations for the sake (at least partially) of influencing aspects of international trade. The current data release includes seven variables describing preferential trade agreements between countries and territories and three sets of three variables, each set describing membership in the General Agreement on Tariffs and Trade (GATT), the World Trade Organization (WTO), and the European Union (EU), respectively. These variables, the data sources they were based on, and the details of their construction are discussed in the following subsections.

### 7.1 Preferential Trade Agreements

*updated* The variables describing active preferential trade agreements (listed in section 7.1.1 below) between country pairs have been updated to include 18 additional agreements: 8 new agreements that came into force since v1.0 was constructed (March 2017) and 10 already active agreements that were notified to the WTO since v1.0. One agreement—Turkey - Jordan—became inactive in November 2018. All PTA variables were updated to reflect these changes. A full list of the agreements reflected in v2.0 can be found in appendix D, table D4. Agreements that are new to v2.0 of this dataset are highlighted in red.

As discussed in v1.0, the Dynamic Gravity dataset contains some corrections or extensions to the information in the WTO’s RTA database, primarily in cases where agreement membership has not been precisely tracked over time. In version 2.0, additional work was done to verify and occasionally correct entry and exit dates for each trade agreement and its members using the original text or other reliable sources.

In sum, version 2.0 of the dataset includes information on 539 distinct agreements recognized by the WTO.<sup>8</sup>

#### 7.1.1 Variables

***agree\_fta\_eia***: The variable *agree\_fta\_eia* takes a value equal to one if *country\_o* and *country\_d* are engaged in a free trade agreement and an economic integration agreement within the given *year*. *updated* new variable in Version 2.0 of the dataset.

***agree\_cu\_eia***: The variable *agree\_cu\_eia* takes a value equal to one if *country\_o* and *country\_d* are engaged in a customs union and an economic integration agreement within the given *year*. *updated* new variable in Version 2.0 of the dataset.

the European Union (EUN) due to the fact that at some point in their history Aruba and at least one member of the EU were colonial dependencies of the Netherlands.

<sup>7</sup>Data were downloaded on 11/25/2019 from <https://scholar.harvard.edu/shleifer/publications/quality-government>

<sup>8</sup>In cases where the same agreement covers goods and services, but dates of entry into force for goods and services differ, the agreement is counted as two separate agreements. This has negligible impact on the use of the data.

### 7.1.2 European Union

Agreements that were made by European Community and European Union were added as EU agreements with other countries.

## 7.2 EU, WTO, & GATT Membership

### 7.2.1 Variables

*updated* Variables *member\_gatt\_o*, *member\_gatt\_d*, and *member\_gatt\_joint* have been set to zero for all years after 1994 to reflect that WTO replaced GATT in 1995.

There are no other changes to membership variables in Version 2.0 of the dataset. In particular, BREXIT is not reflected in this version of the data.

## 8 Measures of Institutional Stability

The institutional stability variables are those that measure various events a country may be involved in or characteristics of a country that may influence its propensity or desire to conduct international trade with a given trading partner due to different aspects of the country's stability. The current data release includes three sets of variables, each describing a different form of institutional stability in either a bilateral (hostility level towards another country or sanctions with another country) or unilateral (level of political stability) manner. These variables, the data sources they were based on, and the details of their construction are discussed in the following subsections.

### 8.1 Hostility

There were no changes to the underlying data; thus variables described in this section were not updated to include additional years or regions.

### 8.2 Polity

There were no changes to the underlying data; thus variables described in this section were not updated to include additional years or regions.

#### 8.2.1 Variables

*polity\_absolute\_o*: *updated* this variable is not available in Version 2.0 of the dataset.

*polity\_absolute\_d*: *updated* this variable is not available in Version 2.0 of the dataset.

### 8.3 Economic Sanctions

There were no changes to the underlying data; thus variables described in this section were not updated to include additional years or regions.

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# Appendices

## A List of Variables

Table A1: List of Variables

Variable	Description	Page
<i>country_o</i>	Name of origin country	5
<i>country_d</i>	Name of destination country	5
<i>iso3_o</i>	3-digit ISO code of origin country	5
<i>iso3_d</i>	3-digit ISO code of destination country	5
<i>dynamic_code_o</i>	Year-appropriate 3-digit code of origin country	5
<i>dynamic_code_d</i>	Year-appropriate 3-digit code of destination country	5
<i>year</i>	Year of observation	5
<i>pop_o</i>	Population of origin country	6
<i>pop_d</i>	Population of destination country	6
<i>capital_cur_o</i>	Capital stock at current PPP of origin country	6
<i>capital_cur_d</i>	Capital stock at current PPP of destination country	6
<i>capital_const_o</i>	Capital stock at constant prices of origin country	6
<i>capital_const_d</i>	Capital stock at constant prices of destination country	6
<i>gdp_pwt_const_o</i>	Real, inflation-adjusted, PPP-adjusted GDP of origin country (PWT)	7
<i>gdp_pwt_const_d</i>	Real, inflation-adjusted, PPP-adjusted GDP of destination country (PWT)	7
<i>gdp_pwt_cur_o</i>	Real, current, PPP-adjusted GDP of origin country (PWT)	7
<i>gdp_pwt_cur_d</i>	Real, current, PPP-adjusted GDP of destination country (PWT)	7
<i>gdp_wdi_const_o</i>	Real GDP of origin country (WDI)	7
<i>gdp_wdi_const_d</i>	Real GDP of destination country (WDI)	7
<i>gdp_wdi_cur_o</i>	Nominal GDP of origin country (WDI)	7
<i>gdp_wdi_cur_d</i>	Nominal GDP of destination country (WDI)	7
<i>gdp_wdi_cap_const_o</i>	Real GDP per capita of origin country (WDI)	7
<i>gdp_wdi_cap_const_d</i>	Real GDP per capita of destination country (WDI)	7
<i>gdp_wdi_cap_cur_o</i>	Nominal GDP per capita of origin country (WDI)	7
<i>gdp_wdi_cap_cur_d</i>	Nominal GDP per capita of destination country (WDI)	7
<i>lat_o</i>	Latitude coordinate of origin country	7
<i>lat_d</i>	Latitude coordinate of destination country	7
<i>lng_o</i>	Longitude coordinate of origin country	7
<i>lng_d</i>	Longitude coordinate of destination country	7
<i>distance</i>	Population weighted distance between country pair	7
<i>contiguity</i>	Country pair shares a common border	7
<i>landlocked_o</i>	Origin country is landlocked	7
<i>landlocked_d</i>	Destination country is landlocked	7
<i>island_o</i>	Origin country is an island	7
<i>island_d</i>	Destination country is an island	7
<i>region_o</i>	Geographic region of origin country	7
<i>region_d</i>	Geographic region of destination country	7
<i>common_language</i>	Residents of country pair speak at least one common language	8
<i>colony_of_destination_current</i>	Origin country is a colony of the destination country (V1.0 only)	8
<i>colony_of_origin_current</i>	Destination country is a colony of the origin country (V1.0 only)	8
<i>colony_of_destination_ever</i>	Origin country was ever a colony of the destination country	8
<i>colony_of_origin_ever</i>	Destination country was ever a colony of the origin country	8
<i>colony_of_destination_after45</i>	Origin country was a colony of the destination country after 1945 (V1.0 only)	8
<i>colony_of_origin_after45</i>	Destination country was a colony of origin country after 1945 (V1.0 only)	8
<i>colony_ever</i>	Country pair has been in a colonial relationship (V2.0 only)	8
<i>common_colonizer</i>	Country pair had at least one common colonizer (V2.0 only)	8
<i>common_legal_origin</i>	Country pair has common legal origin (V2.0 only)	8
<i>agree_pta</i>	Country pair is in at least one active preferential trade agreement	9
<i>agree_pta_goods</i>	Country pair is in at least one active preferential trade agreement covering goods	9
<i>agree_pta_services</i>	Country pair is in at least one active preferential trade agreement covering services	9
<i>agree_cu</i>	Country pair is in at least one customs union	9
<i>agree_eia</i>	Country pair is in at least one economic integration agreement	9
<i>agree_fta</i>	Country pair is in at least one free trade agreement	9
<i>agree_psa</i>	Country pair is in at least one partial scope agreement	9
<i>agree_fta_eia</i>	Country pair is in at least one free trade agreement and at least one economic integration agreement (V2.0 only)	9
<i>agree_cu_eia</i>	Country pair is in at least one customs union and at least one economic integration agreement (V2.0 only)	9
<i>member_eu_o</i>	Origin country is a European Union member	10

Continued on next page

Table A1 – continued from previous page

Variable	Description	Page
<i>member_wto_o</i>	Origin country is a World Trade Organization member	10
<i>member_gatt_o</i>	Origin country is a General Agreement on Tariffs and Trade member	10
<i>member_eu_d</i>	Destination country is a European Union member	10
<i>member_wto_d</i>	Destination country is a World Trade Organization member	10
<i>member_gatt_d</i>	Destination country is a General Agreement on Tariffs and Trade member	10
<i>member_eu_joint</i>	Country pair are both members of the European Union	10
<i>member_wto_joint</i>	Country pair are both members of the World Trade Organization	10
<i>member_gatt_joint</i>	Country pair are both members of the General Agreement on Tariffs and Trade	10
<i>polity_o</i>	Polity (political stability) score of origin country	10
<i>polity_d</i>	Polity (political stability) score of destination country	10
<i>polity_absolute_o</i>	Absolute value of the Polity score of the origin country (V1.0 only)	10
<i>polity_absolute_d</i>	Absolute value of the Polity score of the destination country (V1.0 only)	10
<i>hostility_level_o</i>	Level of the origin country's hostility toward the destination country	10
<i>hostility_level_d</i>	Level of the destination country's hostility toward the origin country	10
<i>sanction_threat</i>	There exists a threat of sanction between one country in a record towards the other	10
<i>sanction_threat_trade</i>	There exists a threat of trade sanction between one country in a record towards the other	10
<i>sanction_imposition</i>	There exists a sanction between one country in a record towards the other	10
<i>sanction_imposition_trade</i>	There exists a trade sanction between one country in a record towards the other	10

## B List of Unique *dynamic\_code*'s

Table B2: Changes to country codes

Country	ISO 3-alpha	Code	Effective Year(s)	Change Reason
Congo, Democratic Republic of the	COD	ZAR	1971–1997	Democratic Republic of the Congo was known as Zaire in 1971–1997 and was identified by ISO alpha-3 ZAR. To facilitate matching between this and other datasets, ISO alpha-3 COD is used for all years. However, to distinguish between the two periods in DR Congo's history, <i>dynamic_code</i> preserves value ZAR for the years 1971–1997.
European Union	EUN	EU6	1958–1972	European Economic Community formed in 1958 with six original members (Belgium, France, West Germany, Italy, Luxembourg, and the Netherlands).
European Union	EUN	EU9	1973–1980	Denmark, Ireland, and the UK joined in 1973.
European Union	EUN	EU10	1981–1985	Greece joined in 1981.
European Union	EUN	EU12	1986–1990	Portugal and Spain joined in 1986.
European Union	EUN	EU12.X	1991–1994	West Germany reunited with the German Democratic Republic, changing the geography of the EU.
European Union	EUN	EU15	1995–2003	Austria, Finland, and Sweden joined in 1995.
European Union	EUN	EU25	2004–2006	Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, and Slovenia joined in 2004.
European Union	EUN	EU27	2007–2012	Bulgaria and Romania joined in 2007.
European Union	EUN	EU28	2013+	Croatia joined in 2013.
Guadeloupe	GLP	GLP.X	2007+	Saint-Barthélemy and Saint-Martin were part of Guadeloupe until 2007. Code for Guadeloupe became GLP.X following the split.
Kiribati	KIR	KIR.X	1984+	Phoenix Islands and some of the Line Islands became part of Kiribati territory by Treaty of Tarawa. Code for Kiribati changed from KIR to KIR.X.
Malaysia	MYS	MYS.X	1963–1964	Singapore became independent from Malaysia in 1965. Code for Malaysia changed from MYS.X to MYS.

Continued on next page

Table B2 – continued from previous page

Country	ISO 3-alpha	Code	Effective Year(s)	Change Reason
Myanmar	MMR	BUR	1948–1988	Country’s government changed official name of the country from Burma to Myanmar in 1989. To facilitate matching between this and other datasets, ISO alpha-3 MMR is used for all years. However, to distinguish between the two periods in Myanmar’s history, <i>dynamic_code</i> preserves value BUR for 1948–1988.
Netherlands Antilles	ANT	ANT.X	1986–2010	Aruba and SSS islands (Saba, Sint Eustatius, and Sint Maarten) were part of the Netherlands Antilles until 1986. Following separation of Aruba and SSS islands, code for the Netherlands Antilles changed from ANT to ANT.X. The Netherlands Antilles were dissolved in 2010.
Pakistan	PAK	PAK.X	1971+	Bangladesh became independent of Pakistan. Code for Pakistan changed from PAK to PAK.X.
Panama	PAN	PAN.X	1981+	Panama gained joint control with the U.S. over the Panama Canal Zone in 1980. Code for Panama changed from PAN to PAN.X in 1981. Panama has received full autonomous control over the canal on December 31, 1999.
Romania	ROU	ROM	1948–2001	Officially recognized ISO 3-alpha for Romania was ROM in 1948–2001, changing to ROU in 2002. Dynamic code for Romania reflects this change, while ISO 3-alpha remains ROU throughout to facilitate matching between this and other datasets.
Saudi Arabia	SAU	SAU.X	1993+	Saudi-Iraqi Neutral Zone was formerly known using ISO 3-alpha “NTZ”. It was discontinued at the end of 1992. Saudi Arabia without the Neutral Zone is coded using SAU.X.
Serbia	SRB	SRB.X	2008+	Serbia is coded with SRB.X following Kosovo’s split in 2008.
South Africa	ZAF	ZAF.X	1990+	Namibia became independent of South Africa in 1990. South Africa code changed from ZAF to ZAF.X.
Sudan	SDN	SDN.X	2011+	Following the independence of South Sudan from Sudan in 2011, Sudan’s code changed from SDN to SDN.X.
Vietnam	VNM	VNM.X	1977+	Following the unification of North and South Vietnam, the new unified country inherited the ISO 3-alpha code for South Vietnam (VNM). To reflect this change, code for unified Vietnam is VNM.X.
West Germany	DEU	DEU.X	1949–1990	Germany split into East and West Germany in 1949 and remained separated until 1990. During that period, West Germany used ISO 3-alpha code DEU that was also used by the unified Germany before 1949 and after 1990. To distinguish between unified and West Germany, code DEU.X was assigned to West Germany.
Yemen	YEM	YEM.X	1990+	Following unification of North and South Yemen, the unified country inherited the ISO 3-alpha of North Yemen. To distinguish between unified and North Yemen, code YEM.X was assigned to unified Yemen.
Yugoslavia	YUG	YUG.X	1992–2002	Following split of Yugoslavia, Federal Republic of Yugoslavia inherited ISO 3-alpha YUG. This ISO 3-alpha existed until FR Yugoslavia was renamed Serbia and Montenegro in 2003. To distinguish between the Socialist Federal Republic of Yugoslavia of 1943–1991 and FR Yugoslavia of 1992–2002, the latter received the code YUG.X.



## C Matching Dynamic Gravity to Comtrade and WITS

Table C3: Country identifiers in Dynamic Gravity, Comtrade, and WITS

Country	Dynamic Gravity	Comtrade	WITS
Congo, Democratic Republic of the	COD	COD	ZAR
East Timor	TLS	TLS	TMP
Montenegro	MNE	MNE	MNT
Neutral Zone	NTZ	n/a	NZE
Pacific Islands	PCI	PCI	PCE
Romania	ROU	ROU	ROM
Serbia	SRB	SRB	SER
Sikkim	SKM	n/a	SIK
Sudan	SDN	SDN	SUD
Taiwan	TWN	490	OAS
U.S. Miscellaneous Pacific Islands	PUS	n/a	USP
Vietnam, South	VNM	VNM	SVR
Yemen, South	YMD	YMD	YDR

## D List of Trade Agreements

Table D4: List of Included Trade Agreements

Agreement	Type	In Force	Inactive
<b>Active Agreements</b>			
Agadir Agreement	FTA	27-Mar-07	
Andean Community (CAN)	CU	25-May-88	
Argentina - Mexico	PSA	1-Jan-87	
Armenia - Kazakhstan	FTA	25-Dec-01	
Armenia - Moldova, Republic of	FTA	21-Dec-95	
Armenia - Turkmenistan	FTA	7-Jul-96	
Armenia - Ukraine	FTA	18-Dec-96	
ASEAN - Australia - New Zealand	FTA & EIA	1-Jan-10	
ASEAN - China (Goods)	FTA & EIA	1-Jan-05	
ASEAN - China (Services)	FTA & EIA	1-Jul-07	
ASEAN - India (Goods)	FTA & EIA	1-Jan-10	
ASEAN - India (Services)	FTA & EIA	1-Jul-15	
ASEAN - Japan	FTA	1-Dec-08	
ASEAN - Korea, Republic of (Goods)	FTA & EIA	1-Jan-10	
ASEAN - Korea, Republic of (Services)	FTA & EIA	14-Oct-10	
ASEAN Free Trade Area (AFTA)	FTA	1-Jan-93	
Asia Pacific Trade Agreement (APTA)	PSA	17-Jun-76	
Asia Pacific Trade Agreement (APTA) - Accession of China	PSA	1-Jan-02	
Australia - Chile	FTA & EIA	6-Mar-09	
Australia - China	FTA & EIA	20-Dec-15	
Australia - New Zealand (ANZCERTA) (Goods)	FTA & EIA	1-Jan-83	
Australia - New Zealand (ANZCERTA) (Services)	FTA & EIA	1-Jan-89	
Australia - Papua New Guinea (PATCRA)	FTA	1-Feb-77	
Brazil - Mexico	PSA	2-May-03	
Brunei Darussalam - Japan	FTA & EIA	31-Jul-08	
Canada - Chile	FTA & EIA	5-Jul-97	
Canada - Colombia	FTA & EIA	15-Aug-11	
Canada - Costa Rica	FTA	1-Nov-02	
Canada - Honduras	FTA & EIA	1-Oct-14	
Canada - Israel	FTA	1-Jan-97	
Canada - Jordan	FTA	1-Oct-12	
Canada - Korea, Republic of	FTA & EIA	1-Jan-15	
Canada - Panama	FTA & EIA	1-Apr-13	
Canada - Peru	FTA & EIA	1-Aug-09	
Caribbean Community and Common Market (CARICOM) (Goods)	CU & EIA	1-Aug-73	
Caribbean Community and Common Market (CARICOM) (Services)	CU & EIA	4-Jul-02	
Central American Common Market (CACM)	CU	4-Jun-61	
Chile - China (Goods)	FTA & EIA	1-Oct-06	
Chile - China (Services)	FTA & EIA	1-Aug-10	
Chile - Colombia	FTA & EIA	8-May-09	
Chile - Costa Rica (Chile - Central America)	FTA & EIA	15-Feb-02	
Chile - El Salvador (Chile - Central America)	FTA & EIA	1-Jun-02	
Chile - Guatemala (Chile - Central America)	FTA & EIA	23-Mar-10	
Chile - Honduras (Chile - Central America)	FTA & EIA	19-Jul-08	
Chile - India	PSA	17-Aug-07	
Chile - Indonesia	FTA	10-Aug-19	
Chile - Japan	FTA & EIA	3-Sep-07	
Chile - Malaysia	FTA	25-Feb-12	
Chile - Mexico	FTA & EIA	1-Aug-99	
Chile - Nicaragua (Chile - Central America)	FTA & EIA	19-Oct-12	
Chile - Viet Nam	FTA	1-Jan-14	
China - Costa Rica	FTA & EIA	1-Aug-11	
China - Hong Kong, China	FTA & EIA	29-Jun-03	
China - Korea, Republic of	FTA & EIA	20-Dec-15	
China - Macao, China	FTA & EIA	17-Oct-03	
China - New Zealand	FTA & EIA	1-Oct-08	
China - Singapore	FTA & EIA	1-Jan-09	
Colombia - Mexico	FTA & EIA	1-Jan-95	
Colombia - Northern Triangle (El Salvador, Guatemala, Honduras)	FTA & EIA	12-Nov-09	
Common Economic Zone (CEZ)	FTA	20-May-04	
Common Market for Eastern and Southern Africa (COMESA) - Accession of Egypt	CU	17-Feb-99	
Commonwealth of Independent States (CIS)	FTA	30-Dec-94	
Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP)	FTA & EIA	30-Dec-18	
Costa Rica - Colombia	FTA & EIA	1-Aug-16	
Costa Rica - Peru	FTA & EIA	1-Jun-13	
Costa Rica - Singapore	FTA & EIA	1-Jul-13	
Dominican Republic - Central America	FTA & EIA	4-Oct-01	
Dominican Republic - Central America - United States Free Trade Agreement (CAFTA-DR)	FTA & EIA	1-Mar-06	
East African Community (EAC) (Goods)	CU & EIA	7-Jul-00	
East African Community (EAC) (Services)	CU & EIA	1-Jul-10	

Continued on next page

Table D4 – continued from previous page

Agreement	Type	In Force	Inactive
East African Community (EAC) - Accession of Burundi and Rwanda	CU	1-Jul-07	
EC (10) Enlargement	CU	1-Jan-81	
EC (12) Enlargement	CU	1-Jan-86	
EC (15) Enlargement	CU & EIA	1-Jan-95	
EC (25) Enlargement	CU & EIA	1-May-04	
EC (27) Enlargement	CU & EIA	1-Jan-07	
EC (9) Enlargement	CU	1-Jan-73	
EC Treaty	CU & EIA	1-Jan-58	
Economic and Monetary Community of Central Africa (CEMAC)	CU	24-Jun-99	
Economic Community of West African States (ECOWAS)	CU	24-Jul-93	
Economic Cooperation Organization (ECO)	PSA	17-Feb-92	
<b>Ecuador - Mexico</b>	PSA	1-May-83	
EFTA - Accession of Iceland	FTA	1-Mar-70	
EFTA - Albania	FTA	1-Nov-10	
EFTA - Bosnia and Herzegovina	FTA	1-Jan-15	
EFTA - Canada	FTA	1-Jul-09	
EFTA - Central America (Costa Rica and Panama)	FTA & EIA	19-Aug-14	
EFTA - Chile	FTA & EIA	1-Dec-04	
EFTA - Colombia	FTA & EIA	1-Jul-11	
EFTA - Egypt	FTA	1-Aug-07	
EFTA - Former Yugoslav Republic of Macedonia	FTA	1-May-02	
EFTA - Hong Kong, China	FTA & EIA	1-Oct-12	
EFTA - Israel	FTA	1-Jan-93	
EFTA - Jordan	FTA	1-Sep-02	
EFTA - Korea, Republic of	FTA & EIA	1-Sep-06	
EFTA - Lebanon	FTA	1-Jan-07	
EFTA - Mexico	FTA & EIA	1-Jul-01	
EFTA - Montenegro	FTA	1-Sep-12	
EFTA - Morocco	FTA	1-Dec-99	
EFTA - Palestinian Authority	FTA	1-Jul-99	
EFTA - Peru	FTA	1-Jul-11	
EFTA - SACU	FTA	1-May-08	
EFTA - Serbia	FTA	1-Oct-10	
EFTA - Singapore	FTA & EIA	1-Jan-03	
EFTA - Tunisia	FTA	1-Jun-05	
EFTA - Turkey	FTA	1-Apr-92	
EFTA - Ukraine	FTA & EIA	1-Jun-12	
Egypt - Turkey	FTA	1-Mar-07	
El Salvador - Cuba	PSA	1-Aug-12	
El Salvador- Honduras - Chinese Taipei	FTA & EIA	1-Mar-08	
EU - Albania (Goods)	FTA & EIA	1-Dec-06	
EU - Albania (Services)	FTA & EIA	1-Apr-09	
EU - Algeria	FTA	1-Sep-05	
EU - Andorra	CU	1-Jul-91	
<b>EU - Armenia</b>	EIA	1-Jun-18	
EU - Bosnia and Herzegovina (Goods)	FTA & EIA	1-Jul-08	
EU - Bosnia and Herzegovina (Services)	FTA & EIA	1-Jun-15	
EU - Cameroon	FTA	4-Aug-14	
EU - CARIFORUM States EPA	FTA & EIA	1-Nov-08	
EU - Central America	FTA & EIA	1-Aug-13	
EU - Chile	FTA & EIA	1-Feb-03	
EU - Chile (Services)	FTA & EIA	1-Mar-05	
EU - Colombia and Peru	FTA & EIA	1-Mar-13	
EU - Colombia and Peru - Accession of Ecuador	FTA & EIA	1-Jan-17	
EU - Côte d'Ivoire	FTA	3-Sep-16	
EU - Eastern and Southern Africa States Interim EPA	FTA	14-May-12	
EU - Egypt	FTA	1-Jun-04	
EU - Faroe Islands	FTA	1-Jan-97	
EU - Former Yugoslav Republic of Macedonia (Goods)	FTA & EIA	1-Jun-01	
EU - Former Yugoslav Republic of Macedonia (Services)	FTA & EIA	1-Apr-04	
EU - Georgia	FTA & EIA	1-Sep-14	
EU - Iceland	FTA	1-Apr-73	
EU - Israel	FTA	1-Jun-00	
<b>EU - Japan</b>	FTA & EIA	1-Feb-19	
EU - Jordan	FTA	1-May-02	
EU - Korea, Republic of	FTA & EIA	1-Jul-11	
EU - Lebanon	FTA	1-Mar-03	
EU - Mexico (Goods)	FTA & EIA	1-Jul-00	
EU - Mexico (Services)	FTA & EIA	1-Oct-00	
EU - Moldova, Republic of	FTA & EIA	1-Sep-14	
EU - Montenegro (Goods)	FTA & EIA	1-Jan-08	
EU - Montenegro (Services)	FTA & EIA	1-May-10	
EU - Morocco	FTA	1-Mar-00	
EU - Norway	FTA	1-Jul-73	
EU - OCT	FTA	1-Jan-71	
EU - Palestinian Authority	FTA	1-Jul-97	
EU - Papua New Guinea / Fiji	FTA	20-Dec-09	

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Table D4 – continued from previous page

Agreement	Type	In Force	Inactive
EU - San Marino	CU	1-Apr-02	
EU - Serbia (Goods)	FTA & EIA	1-Feb-10	
EU - Serbia (Services)	FTA & EIA	1-Sep-13	
<b>EU - Singapore</b>	FTA & EIA	21-Nov-19	
EU - South Africa	FTA	1-Jan-00	
EU - Switzerland - Liechtenstein	FTA	1-Jan-73	
EU - Syria	FTA	1-Jul-77	
EU - Tunisia	FTA	1-Mar-98	
EU - Turkey	CU	1-Jan-96	
EU - Ukraine	FTA & EIA	23-Apr-14	
EU (28) Enlargement	CU & EIA	1-Jul-13	
Eurasian Economic Community (EAEC)	CU	8-Oct-97	
Eurasian Economic Union (EAEU)	CU & EIA	1-Jan-15	
Eurasian Economic Union (EAEU) - Accession of Armenia	CU & EIA	2-Jan-15	
<b>Eurasian Economic Union (EAEU) - Accession of Iran</b>	CU & EIA	27-Oct-19	
Eurasian Economic Union (EAEU) - Accession of the Kyrgyz Republic	CU & EIA	12-Aug-15	
Eurasian Economic Union (EAEU) - Accession of Vietnam	CU & EIA	5-Oct-16	
European Economic Area (EEA)	EIA	1-Jan-94	
European Free Trade Association (EFTA)	FTA	3-May-60	
Faroe Islands - Norway	FTA	1-Jul-93	
Faroe Islands - Switzerland	FTA	1-Mar-95	
Georgia - Armenia	FTA	11-Nov-98	
Georgia - Azerbaijan	FTA	10-Jul-96	
Georgia - Kazakhstan	FTA	16-Jul-99	
Georgia - Russian Federation	FTA	10-May-94	
Georgia - Turkmenistan	FTA	1-Jan-00	
Georgia - Ukraine	FTA	4-Jun-96	
Global System of Trade Preferences among Developing Countries (GSTP)	PSA	19-Apr-89	
Guatemala - Chinese Taipei	FTA & EIA	1-Jul-06	
Gulf Cooperation Council (GCC)	CU	1-Jan-03	
Gulf Cooperation Council (GCC) - Singapore	FTA & EIA	1-Sep-13	
Hong Kong, China - Chile	FTA & EIA	9-Oct-14	
<b>Hong Kong, China - Georgia</b>	FTA & EIA	13-Feb-19	
Hong Kong, China - New Zealand	FTA & EIA	1-Jan-11	
Iceland - China	FTA & EIA	1-Jul-14	
Iceland - Faroe Islands	FTA & EIA	1-Nov-06	
India - Afghanistan	PSA	13-May-03	
India - Bhutan	FTA	29-Jul-06	
India - Japan	FTA & EIA	1-Aug-11	
India - Malaysia	FTA & EIA	1-Jul-11	
India - Nepal	PSA	27-Oct-09	
India - Singapore	FTA & EIA	1-Aug-05	
India - Sri Lanka	FTA	15-Dec-01	
<b>Indonesia - Pakistan</b>	PSA	1-Sep-13	
Israel - Mexico	FTA	1-Jul-00	
Japan - Australia	FTA & EIA	15-Jan-15	
Japan - Indonesia	FTA & EIA	1-Jul-08	
Japan - Malaysia	FTA & EIA	13-Jul-06	
Japan - Mexico	FTA & EIA	1-Apr-05	
Japan - Mongolia	FTA & EIA	7-Jun-16	
Japan - Peru	FTA & EIA	1-Mar-12	
Japan - Philippines	FTA & EIA	11-Dec-08	
Japan - Singapore	FTA & EIA	30-Nov-02	
Japan - Switzerland	FTA & EIA	1-Sep-09	
Japan - Thailand	FTA & EIA	1-Nov-07	
Japan - Viet Nam	FTA & EIA	1-Oct-09	
Jordan - Singapore	FTA & EIA	22-Aug-05	
Korea, Republic of - Colombia	FTA & EIA	15-Jul-16	
Korea, Republic of - Australia	FTA & EIA	12-Dec-14	
Korea, Republic of - Chile	FTA & EIA	1-Apr-04	
Korea, Republic of - India	FTA & EIA	1-Jan-10	
Korea, Republic of - New Zealand	FTA & EIA	20-Dec-15	
Korea, Republic of - Singapore	FTA & EIA	2-Mar-06	
Korea, Republic of - Turkey	FTA	1-May-13	
Korea, Republic of - United States	FTA & EIA	15-Mar-12	
Korea, Republic of - Viet Nam	FTA & EIA	20-Dec-15	
Kyrgyz Republic - Armenia	FTA	27-Oct-95	
Kyrgyz Republic - Kazakhstan	FTA	11-Nov-95	
Kyrgyz Republic - Moldova, Republic of	FTA	21-Nov-96	
Kyrgyz Republic - Ukraine	FTA	19-Jan-98	
Kyrgyz Republic - Uzbekistan	FTA	20-Mar-98	
Lao People's Democratic Republic - Thailand	PSA	20-Jun-91	
Latin American Integration Association (LAIA)	PSA	18-Mar-81	
Malaysia - Australia	FTA & EIA	1-Jan-13	
Mauritius - Pakistan	PSA	30-Nov-07	
Melanesian Spearhead Group (MSG)	PSA	1-Jan-94	
MERCOSUR - India	PSA	1-Jun-09	

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Agreement	Type	In Force	Inactive
MERCOSUR - Israel	FTA	23-Dec-09	
Mexico - Bolivia	PSA	7-Jun-10	
Mexico - Central America	FTA & EIA	1-Sep-12	
Mexico - Cuba	PSA	28-Feb-01	
Mexico - Panama	FTA & EIA	1-Jul-15	
Mexico - Paraguay	PSA	1-Jan-84	
Mexico - Uruguay	FTA & EIA	15-Jul-04	
Morocco - United Arab Emirates	FTA	9-Jul-03	
New Zealand - Chinese Taipei	FTA & EIA	1-Dec-13	
New Zealand - Malaysia	FTA & EIA	1-Aug-10	
New Zealand - Singapore	FTA & EIA	1-Jan-01	
Nicaragua - Chinese Taipei	FTA & EIA	1-Jan-08	
North American Free Trade Agreement (NAFTA)	FTA & EIA	1-Jan-94	
Pacific Alliance	FTA & EIA	1-May-16	
Pacific Island Countries Trade Agreement (PICTA)	FTA	13-Apr-03	
Pakistan - China	FTA & EIA	1-Jul-07	
Pakistan - China (Services)	FTA & EIA	10-Oct-09	
Pakistan - Malaysia	FTA & EIA	1-Jan-08	
Pakistan - Sri Lanka	FTA	12-Jun-05	
Panama - Dominican Republic	PSA	8-Jun-87	
Panama - Chile	FTA & EIA	7-Mar-08	
Panama - Chinese Taipei	FTA & EIA	1-Jan-04	
Panama - Costa Rica (Panama - Central America)	FTA & EIA	23-Nov-08	
Panama - El Salvador (Panama - Central America)	FTA & EIA	11-Apr-03	
Panama - Guatemala (Panama - Central America)	FTA & EIA	20-Jun-09	
Panama - Honduras (Panama - Central America )	FTA & EIA	9-Jan-09	
Panama - Nicaragua (Panama - Central America)	FTA & EIA	21-Nov-09	
Panama - Peru	FTA & EIA	1-May-12	
Panama - Singapore	FTA & EIA	24-Jul-06	
Pan-Arab Free Trade Area (PAFTA)	FTA	1-Jan-98	
Peru - Australia	FTA & EIA	11-Feb-20	
Peru - Chile	FTA & EIA	1-Mar-09	
Peru - China	FTA & EIA	1-Mar-10	
Peru - Honduras	FTA & EIA	1-Jan-17	
Peru - Korea, Republic of	FTA & EIA	1-Aug-11	
Peru - Mexico	FTA & EIA	1-Feb-12	
Peru - Singapore	FTA & EIA	1-Aug-09	
Protocol on Trade Negotiations (PTN)	PSA	11-Feb-73	
Russian Federation - Azerbaijan	FTA	17-Feb-93	
Russian Federation - Belarus - Kazakhstan	CU	3-Dec-97	
Russian Federation - Serbia	FTA	3-Jun-06	
Russian Federation - Tajikistan	FTA	8-Apr-93	
Russian Federation - Turkmenistan	FTA	6-Apr-93	
Russian Federation - Uzbekistan	FTA	25-Mar-93	
Singapore - Australia	FTA & EIA	28-Jul-03	
Singapore - Chinese Taipei	FTA & EIA	19-Apr-14	
South Asian Free Trade Agreement (SAFTA)	FTA	1-Jan-06	
South Asian Free Trade Agreement (SAFTA) - Accession of Afghanistan	FTA	7-Aug-11	
South Asian Preferential Trade Arrangement (SAPTA)	PSA	7-Dec-95	
South Pacific Regional Trade and Economic Cooperation Agreement (SPARTECA)	PSA	1-Jan-81	
Southern African Customs Union (SACU)	CU	15-Jul-04	
Southern African Development Community (SADC)	FTA	1-Sep-00	
Southern African Development Community (SADC) - Accession of Seychelles	FTA	25-May-15	
Southern Common Market (MERCOSUR) (Goods)	CU & EIA	29-Nov-91	
Southern Common Market (MERCOSUR) (Services)	CU & EIA	7-Dec-05	
Switzerland - China	FTA & EIA	1-Jul-14	
Thailand - Australia	FTA & EIA	1-Jan-05	
Thailand - New Zealand	FTA & EIA	1-Jul-05	
Trans-Pacific Strategic Economic Partnership	FTA & EIA	28-May-06	
Treaty on a Free Trade Area between members of the Commonwealth of Independent States (CIS)	FTA	20-Sep-12	
Turkey - Albania	FTA	1-May-08	
Turkey - Bosnia and Herzegovina	FTA	1-Jul-03	
Turkey - Chile	FTA	1-Mar-11	
Turkey - Former Yugoslav Republic of Macedonia	FTA	1-Sep-00	
Turkey - Georgia	FTA	1-Nov-08	
Turkey - Israel	FTA	1-May-97	
Turkey - Malaysia	FTA	1-Aug-15	
Turkey - Mauritius	FTA	1-Jun-13	
Turkey - Moldova, Republic of	FTA	1-Nov-16	
Turkey - Montenegro	FTA	1-Mar-10	
Turkey - Morocco	FTA	1-Jan-06	
Turkey - Palestinian Authority	FTA	1-Jun-05	
Turkey - Serbia	FTA	1-Sep-10	
Turkey - Syria	FTA	1-Jan-07	
Turkey - Tunisia	FTA	1-Jul-05	
Ukraine - Azerbaijan	FTA	2-Sep-96	

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Agreement	Type	In Force	Inactive
Ukraine - Belarus	FTA	11-Nov-06	
Ukraine - Former Yugoslav Republic of Macedonia	FTA	5-Jul-01	
Ukraine - Kazakhstan	FTA	19-Oct-98	
Ukraine - Moldova, Republic of	FTA	19-May-05	
Ukraine - Montenegro	FTA & EIA	1-Jan-13	
Ukraine - Tajikistan	FTA	11-Jul-02	
Ukraine - Uzbekistan	FTA	1-Jan-96	
Ukraine -Turkmenistan	FTA	4-Nov-95	
United States - Australia	FTA & EIA	1-Jan-05	
United States - Bahrain	FTA & EIA	1-Aug-06	
United States - Chile	FTA & EIA	1-Jan-04	
United States - Colombia	FTA & EIA	15-May-12	
United States - Israel	FTA	19-Aug-85	
United States - Jordan	FTA & EIA	17-Dec-01	
United States - Morocco	FTA & EIA	1-Jan-06	
United States - Oman	FTA & EIA	1-Jan-09	
United States - Panama	FTA & EIA	31-Oct-12	
United States - Peru	FTA & EIA	1-Feb-09	
United States - Singapore	FTA & EIA	1-Jan-04	
West African Economic and Monetary Union (WAEMU)	CU	1-Jan-00	
<b>Inactive Agreements</b>			
African Common Market	CU	1-Jul-63	31-Dec-98
Albania - Bosnia and Herzegovina	FTA	1-Dec-04	1-May-07
Albania - Bulgaria	FTA	1-Sep-03	1-Jan-07
Albania - Former Yugoslav Republic of Macedonia	FTA	1-Jul-02	1-May-07
Albania - Moldova	FTA	1-Nov-04	1-May-07
Albania - Romania	FTA	1-Jan-04	1-Jan-07
Albania - Serbia and Montenegro	FTA	1-Sep-04	1-May-07
Albania - UNMIC/Kosovo	FTA	1-Oct-03	1-May-07
Arab Common Market	CU	1-Jan-65	31-Dec-98
Armenia - Russian Federation	FTA	25-Mar-93	17-Oct-12
Arusha Agreement	FTA	1-Jan-71	1-Apr-76
Australia - New Zealand Free Trade Agreement	FTA	1-Jan-66	1-Jan-83
Borneo Free Trade Area	FTA	1-Jan-62	31-Dec-69
Bulgaria - Bosnia and Herzegovina	FTA	1-Dec-04	1-Jan-07
Bulgaria - Estonia	FTA	1-Jan-02	1-May-04
Bulgaria - Former Yugoslav Republic of Macedonia	FTA	1-Jan-00	1-Jan-07
Bulgaria - Israel	FTA	1-Jan-02	1-Jan-07
Bulgaria - Latvia	FTA	1-Apr-03	1-May-04
Bulgaria - Lithuania	FTA	1-Mar-02	1-May-04
Bulgaria - Serbia and Montenegro	FTA	1-Jun-04	1-Jan-07
Bulgaria - Slovak Republic Free Trade Agreement	FTA	11-Mar-96	1-Jan-99
Bulgaria - Slovenia	FTA	1-Jan-97	1-Jan-99
Bulgaria - Turkey	FTA	1-Jan-99	1-Jan-07
Canada - US Free Trade Agreement (CUSFTA)	FTA	1-Jan-89	1-Jan-94
Caribbean Free Trade Association (CARIFTA)	FTA	1-May-68	1-Aug-73
Central American Free Trade Area	FTA	2-Jun-59	12-Oct-61
Central European Free Trade Agreement (CEFTA)	FTA	1-Mar-93	1-May-04
Central European Free Trade Agreement (CEFTA) - Accession of Bulgaria	FTA	1-Jan-99	1-Jan-07
Central European Free Trade Agreement (CEFTA) - Accession of Croatia	FTA	1-Mar-03	1-Jan-07
Central European Free Trade Agreement (CEFTA) - Accession of Romania	FTA	1-Jul-97	1-Jan-07
Central European Free Trade Agreement (CEFTA) - Accession of Slovenia	FTA	1-Jan-96	1-May-04
Costa Rica - Mexico	FTA & EIA	1-Jan-95	1-Jul-13
Croatia - Albania	FTA	1-Jun-03	1-May-07
Croatia - Bosnia and Herzegovina	FTA	1-Jan-01	1-May-07
Croatia - Former Yugoslav Republic of Macedonia	FTA	30-Oct-97	1-May-07
Croatia - Serbia and Montenegro	FTA	1-Jul-04	1-May-07
Czech Republic - Bulgaria Free Trade Agreement	FTA	7-Jun-96	1-Jan-99
Czech Republic - Estonia	FTA	12-Feb-98	1-May-04
Czech Republic - Israel	FTA	1-Dec-97	1-May-04
Czech Republic - Latvia	FTA	1-Sep-97	1-May-04
Czech Republic - Lithuania	FTA	1-Jul-97	1-May-04
Czech Republic - Romania Free Trade Agreement	FTA	1-Jan-95	12-Apr-97
Czech Republic - Slovak Republic Customs Union	CU	1-Jan-93	1-May-04
Czech Republic - Slovenia	FTA	1-Jan-94	25-Nov-95
Czech Republic - Turkey	FTA	1-Sep-98	1-May-04
EC - Algeria	FTA	1-Jul-76	1-Sep-05
EC - Algeria Interim Agreement of 1976	FTA	1-Jul-76	1-Nov-78
EC - Austria Agreement of 1972	FTA	1-Oct-72	1-Jan-95
EC - Bulgaria Europe Agreement	FTA & EIA	1-Feb-95	1-Jan-07
EC - Bulgaria Interim Agreement	FTA	31-Dec-93	1-Feb-95
EC - Cyprus Association Agreement	CU	1-Jun-73	1-May-04
EC - Czech and Slovak Federal Republic Interim Agreement	FTA	1-Mar-92	1-Feb-95
EC - Czech Republic Europe Agreement	FTA & EIA	1-Feb-95	1-May-04
EC - Egypt Agreement of 1972	FTA	1-Nov-73	1-Jan-77
EC - Egypt Cooperation Agreement	FTA	1-Nov-78	1-Jun-04
EC - Egypt Interim Agreement of 1977	FTA	1-Jul-77	1-Nov-78

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Agreement	Type	In Force	Inactive
EC - Estonia Agreement	FTA & EIA	1-Jan-95	1-May-04
EC - Faeroe Islands Agreement of 1992	FTA	1-Jan-92	1-Jan-97
EC - Finland Agreement	FTA	1-Jan-74	1-Jan-94
EC - Greece Additional Protocol	FTA	1-Jul-75	1-Jan-81
EC - Hungary Europe Agreement	FTA & EIA	1-Feb-94	1-May-04
EC - Hungary Interim Agreement of 1991	FTA	1-Mar-92	1-Feb-94
EC - Israel Agreement of 1970	FTA	1-Oct-70	1-Jul-75
EC - Israel Agreement of 1975	FTA	1-Jul-75	1-Jun-00
EC - Jordan Cooperation Agreement	FTA	1-Nov-78	1-May-02
EC - Jordan Interim Agreement of 1977	FTA	1-Jul-77	1-Nov-78
EC - Latvia Agreement	FTA & EIA	1-Jan-95	1-May-04
EC - Lebanon Agreement of 1972	FTA	1-Nov-73	1-Jan-77
EC - Lebanon Cooperation Agreement	FTA	1-Nov-78	1-Mar-03
EC - Lebanon Interim Agreement of 1977	FTA	1-Jul-77	1-Nov-78
EC - Lithuania	FTA & EIA	1-Jan-95	1-May-04
EC - Malta Association Agreement	CU	1-Apr-71	1-May-04
EC - Morocco Association Agreement of 1969	FTA	1-Sep-69	1-Jul-76
EC - Morocco Cooperation Agreement	FTA	1-Nov-78	1-Mar-00
EC - Morocco Interim Agreement	FTA	1-Jul-76	1-Nov-78
EC - Poland Europe Agreement	FTA & EIA	1-Feb-94	1-May-04
EC - Poland Interim Agreement of 1991	FTA	1-Mar-92	1-Feb-94
EC - Portugal Agreement of 1972	FTA	1-Jan-73	1-Jan-76
EC - Portugal Interim Agreement	FTA	1-Nov-76	1-Jan-86
EC - Romania Europe Agreement	FTA & EIA	1-Feb-95	1-Jan-07
EC - Romania Interim Agreement	FTA	1-May-93	1-Feb-95
EC - Slovak Republic Europe Agreement	FTA & EIA	1-Feb-95	1-May-04
EC - Slovenia Cooperation Agreement	FTA	19-Jul-93	1-Jan-97
EC - Slovenia Europe Agreement	EIA	1-Feb-99	1-May-04
EC - Slovenia Interim Agreement	FTA	1-Jan-97	1-May-04
EC - Spain Agreement of 1970	FTA	1-Oct-70	1-Jan-86
EC - Sweden Agreement	FTA	1-Jan-73	1-Jan-95
EC - Syria Interim Agreement of 1977	FTA	1-Jul-77	1-Nov-78
EC - Tunisia Association Agreement of 1969	FTA	1-Sep-69	1-Jul-76
EC - Tunisia Cooperation Agreement	FTA	1-Nov-78	1-Mar-98
EC - Tunisia Interim Agreement of 1976	FTA	1-Jul-76	1-Nov-78
EC - Turkey Additional Protocol	FTA	1-Jan-73	1-Jan-74
EC - Turkey Association Agreement of 1973	CU	1-Jan-74	1-Jan-96
EC - Yugoslavia, Socialist Federal Republic of, Interim Agreement	FTA	1-Jul-80	27-Nov-91
EC Overseas Countries and Territories 1	CU	1-Jun-64	1-Jan-71
EEC - Greece Association Agreement	CU	1-Nov-62	1-Jan-81
EEC - Turkey Association Agreement of 1963	FTA	1-Dec-64	1-Jan-73
EFTA - Bulgaria	FTA	1-Jul-93	1-Jan-07
EFTA - Croatia	FTA	1-Apr-02	24-Nov-13
EFTA - Czech Republic Agreement	FTA	1-Jul-92	1-May-04
EFTA - Czechoslovakia	FTA	1-Jul-92	19-Mar-93
EFTA - Estonia Free Trade Agreement	FTA	1-Jun-96	1-May-04
EFTA - Hungary Agreement	FTA	1-Oct-93	1-May-04
EFTA - Latvia	FTA	1-Jun-96	1-May-04
EFTA - Lithuania	FTA	1-Aug-96	1-May-04
EFTA - Poland Agreement	FTA	15-Nov-93	1-May-04
EFTA - Romania Free Trade Agreement	FTA	1-May-93	1-Jan-07
EFTA - Slovak Republic Agreement	FTA	1-Jul-92	1-May-04
EFTA - Slovenia	FTA	1-Jul-95	1-May-04
EFTA - Spain Agreement	FTA	1-May-80	1-Jan-86
El Salvador - Nicaragua Free Trade Area	FTA	21-Aug-51	2-Jun-59
Equatorial Customs Union - Cameroon Association	FTA	1-Jul-62	31-Dec-64
Estonia - Faeroe Islands	FTA	1-Dec-98	1-May-04
Estonia - Latvia - Lithuania	FTA	1-Apr-94	1-May-04
Estonia - Norway Free Trade Agreement	FTA	15-Jun-92	1-Jun-96
Estonia - Sweden Free Trade Agreement	FTA	1-Jul-92	1-Jan-95
Estonia - Switzerland Free Trade Agreement	FTA	1-Apr-93	1-Jun-96
Estonia - Ukraine	FTA	14-Mar-96	1-May-04
EU - Croatia	FTA & EIA	1-Mar-02	1-Jul-13
EU - Croatia	FTA & EIA	1-Feb-05	1-Jul-13
Eurasian Economic Community (EAEC)	CU	8-Oct-97	1-Jan-15
Faeroe Islands - Iceland	FTA	1-Jul-93	1-Nov-06
Finland-European Free Trade Association (FINEFTA)	FTA	26-Jun-61	10-Feb-86
Finland - Bulgaria	FTA	1-Jan-75	1-Jul-93
Finland - Czechoslovakia Agreement	FTA	1-Jan-75	1-Jul-92
Finland - Estonia Protocol	FTA	1-Dec-92	1-Jan-95
Finland - German Democratic Republic Agreement	FTA	1-Jul-75	3-Nov-89
Finland - Hungary Agreement	FTA	1-Jan-75	1-Oct-93
Finland - Latvia Protocol	FTA	1-Jul-93	1-Jan-95
Finland - Lithuania Protocol	FTA	1-Jul-93	1-Jan-95
Finland - Poland Agreement	FTA	1-Apr-78	15-Nov-93
First Convention of Lomé	FTA	1-Apr-76	1-Jan-81
Former Yugoslav Republic of Macedonia - Bosnia and Herzegovina	FTA	15-Jul-02	1-May-07

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Agreement	Type	In Force	Inactive
Ghana - Upper Volta Trade Agreement	FTA	9-May-62	31-Dec-66
Gulf Cooperation Council (GCC)	CU	1-Jan-82	1-Jan-03
Hungary - Estonia	FTA	1-Mar-01	1-May-04
Hungary - Israel	FTA	1-Feb-98	1-May-04
Hungary - Latvia	FTA	1-Jan-00	1-May-04
Hungary - Lithuania	FTA	1-Mar-00	1-May-04
Hungary - Slovenia Free Trade Agreement	FTA	1-Jan-95	25-Nov-95
Hungary - Turkey	FTA	1-Apr-98	1-May-04
Ireland - United Kingdom Free Trade Area	FTA	1-Jul-66	1-Jan-73
Kyrgyz Republic - Russian Federation	FTA	24-Apr-93	13-Dec-13
Latin American Free Trade Area (LAFTA)	FTA	2-Jun-61	1-Jan-80
Latvia - Norway Free Trade Agreement	FTA	16-Jun-92	1-Jun-96
Latvia - Sweden Free Trade Agreement	FTA	1-Jul-92	1-Jan-95
Latvia - Switzerland Free Trade Agreement	FTA	1-Apr-93	1-Jun-96
Lithuania - Norway Free Trade Agreement	FTA	16-Jun-92	1-Aug-96
Lithuania - Sweden Free Trade Agreement	FTA	1-Jul-92	1-Jan-95
Lithuania - Switzerland Free-Trade Agreement	FTA	1-Apr-93	1-Aug-96
Mexico - El Salvador (Mexico - Northern Triangle)	FTA & EIA	15-Mar-01	1-Sep-12
Mexico - Guatemala (Mexico - Northern Triangle)	FTA & EIA	15-Mar-01	1-Sep-13
Mexico - Honduras (Mexico - Northern Triangle)	FTA & EIA	1-Jun-01	1-Jan-13
Mexico - Nicaragua	FTA & EIA	1-Jul-98	1-Sep-12
Moldova - Bosnia and Herzegovina	FTA	1-May-04	1-May-07
Moldova - Bulgaria	FTA	1-Dec-04	1-Jan-07
Moldova - Croatia	FTA	1-Oct-04	1-May-07
Moldova - Former Yugoslav Republic of Macedonia	FTA	1-Dec-04	1-May-07
Moldova - Serbia and Montenegro	FTA	1-Sep-04	1-May-07
Poland - Faeroe Islands	FTA	1-Jun-98	1-May-04
Poland - Israel	FTA	1-Mar-98	1-May-04
Poland - Latvia	FTA	1-Jun-99	1-May-04
Poland - Lithuania	FTA	30-Dec-97	1-May-04
Romania - Bosnia and Herzegovina	FTA	24-Oct-03	1-Jan-07
Romania - Former Yugoslav Republic of Macedonia	FTA	1-Jan-04	1-Jan-07
Romania - Israel	FTA	1-Jul-01	1-Jan-07
Romania - Moldova	FTA	1-Jan-95	1-Jan-07
Romania - Serbia and Montenegro	FTA	1-Jul-04	1-Jan-07
Romania - Turkey	FTA	1-Feb-98	1-Jan-07
Russian Federation - Belarus	FTA	20-Apr-93	20-Sep-12
Russian Federation - Kazakhstan	FTA	7-Jun-93	8-Dec-12
Russian Federation - Republic of Moldova	FTA	30-Mar-93	9-Dec-12
Russian Federation - Tajikistan	FTA	8-Apr-93	20-Sep-12
Second Convention of Lomé	FTA	1-Jan-81	1-Mar-86
Slovak Republic - Estonia	FTA	13-Mar-98	1-May-04
Slovak Republic - Israel	FTA	1-Jan-97	1-May-04
Slovak Republic - Latvia	FTA	1-Jul-97	1-May-04
Slovak Republic - Lithuania	FTA	14-Nov-97	1-May-04
Slovak Republic - Romania Free Trade Agreement	FTA	1-Jan-95	12-Apr-97
Slovak Republic - Slovenia Free Trade Agreement	FTA	1-Jan-94	25-Nov-95
Slovak Republic - Turkey	FTA	1-Aug-98	1-May-04
Slovenia - Bosnia and Herzegovina	FTA	1-Jan-02	1-May-04
Slovenia - Croatia	FTA	1-Jan-98	1-May-04
Slovenia - Estonia	FTA	1-Jan-97	1-May-04
Slovenia - Former Yugoslav Republic of Macedonia	FTA	1-Sep-96	1-May-04
Slovenia - Israel	FTA	1-Sep-98	1-May-04
Slovenia - Latvia	FTA	1-Aug-96	1-May-04
Slovenia - Lithuania	FTA	1-Mar-97	1-May-04
South Africa - Southern Rhodesia Customs Union	CU	1-Apr-49	1-Jan-55
Third Convention of Lomé	FTA	1-Mar-86	1-Sep-91
Tripartite Agreement	PSA	1-Apr-68	31-Dec-90
Turkey - Croatia	FTA	1-Jul-03	1-Jul-13
Turkey - Estonia	FTA	1-Jul-98	1-May-04
Turkey - Jordan	FTA	1-Mar-11	22-Nov-18
Turkey - Latvia	FTA	1-Jul-00	1-May-04
Turkey - Lithuania	FTA	1-Mar-98	1-May-04
Turkey - Poland	FTA	1-May-00	1-May-04
Turkey - Slovenia	FTA	1-Jun-00	1-May-04
Ukraine - Russian Federation	FTA	21-Feb-94	20-Sep-12
Yaoundé I	FTA	1-Jan-64	1-Jan-71
Yaoundé II	FTA	1-Jan-71	1-Apr-76