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Abstract

This short paper introduces a new database combining data on international trade, Foreign Direct Investment, and regional trade agreements. The bilateral data covers 1980-2010 and includes gravity model variables and is appropriate for empirical analysis in a wide variety of contexts.

Keywords: Data, empirical, trade, FDI, RTA

JEL Codes: F14, C01

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1. Introduction

Considerable empirical and theoretical research indicates Regional Trade Agreements (RTAs) promote Foreign Direct Investment (FDI), primarily via market size or access effects; there is correspondingly increasing evidence of negative effects being generated due to RTAs (Lira, 2010). Moreover, there is also evidence suggesting that the European Union (EU) is the only Regional Integration Agreement (RIA) to consistently have significant positive effects on FDI (Pereira et al., 2012). The majority of this empirical work considers FDI a dependent variable and thus analyzes the impact of investment provisions in international trade agreements on the flows of FDI (e.g., Blonigen, 2005). These works explore whether RTAs have a differential impact on FDI; moreover whether FDI is a complement or substitute for exports in specific situations, i.e., a tariff has a significant impact on the cost of exporting.¹ There are a variety of factors beyond the existence of an RTA which are also FDI determinants. If the factors leading to RTA formation are the same factors that encourage FDI flow, then the reverse may be true and an increase in FDI inflows could be an indicator of RTA formation or transformation.

In order to fully examine these questions, we require a functional dataset. Given that the majority of findings regarding RTA formation are inconclusive with respect to trade creation, it is possible that investment motives drive the creation or transformation of trade agreements. This is likely due to the lack of multilateral agreements on investment.² There is a collection of existing literature focused on FDI flows following the formation of a Free Trade Agreement (FTA). The database presented here consists of publicly available data organized to provide further insight

¹ This refers to the Heckscher-Ohlin result that trade in factors are substitutes for trade in goods.

² See Wu, 2005, for uncertainty arguments and http://www.wto.org/english/news_e/pres96_e/pr057_e.htm for arguments concerning multilateral investment treaties, or rather lack thereof.

into PTA formation and transformation. It would benefit from being augmented with global value chain firm level FDI data and detailed Chinese FDI data, if more resources are allocated to the project in the future.

This is a modified data set using bilateral trade variables consistent with gravity models, including variables of political and regulatory structure. Putting together this dataset required a series of joins consisting of datasets with varying alphanumeric country codes. This dataset is advantageous for research use as it includes a general PTA dummy variable, reporting a 1 in the case of FTA, RTA or PTA, as well as OECD FDI panel data. STATA is the preferred application and was used to join and organize datasets from a small collection of sources.

2. Data

2.1 Description of Sources

The dataset is bilateral in nature and includes standard trade variables: trade in goods and services; gravity model variables including distance, common language, common border, area and population; Gross Domestic Product (GDP) variables of the standard macroeconomic models; FDI; and conflict and polity variables including regulation, legal and governance regimes. The collection of this data required unique alphanumeric string variables for datasets with inconsistent naming conventions. To do this, a functional base dataset was used and then augmented by 13 additional explanatory variables in the development of new interactions for further investigation. Furthermore, an additional 30 descriptive variables were added as well as a set of 91 trade agreement dummies taken from the Design of International Trade Agreements (DESTA) dataset, in the form of trade agreement dummies representing clusters of regional

integration participation (Dür et al., 2014).

The database presented here covers a time span of 1980-2010. Given the limited nature of publicly available data the most comprehensive time period was chosen and all other data was merged accordingly. The data was handled and produced in STATA where datasets are stacked; therefore, it is a panel dataset; any data not originally panel becomes so via a pair ID (or identification of dyads). The empirical analysis can be thus developed from the perspective of origin countries or, alternatively, via the paired panel.

The original dataset was reorganized in order to have a more intuitive view and variables were renamed to be consistent for the required mergers (*joins* in STATA). All the country names, country codes and pair identifications were reordered to read from left to right starting with the country name. The bilateral trade database used as a base for the project is from Chris Magee (Magee, 2010)³. The database was originally developed for the trade and democracy project. It required minor adjustments and some clean up to merge consistently with available databases. The bilateral trade data was taken from Statistics Canada, the World Trade Analyzer (WTA)⁴ and included country names and numerical codes, as well as annual import and export flows. The Magee database includes further codes for gravity models including RTA dummies and common religion. This data was then complemented with data from the World Bank on each bilateral country's real GDP and real GDP per capita, in constant 2005 US dollars. The World Development Indicator (WDI) dataset provided information for the primary macroeconomic

³ Graciously made available by Chris Magee and downloaded from <http://www.facstaff.bucknell.edu/cmagee/>.

⁴ Statistics Canada. 2003. World Trade Analyzer (database). International Trade Division REF Product ID: 65F0016XCE; taken from Magee, C., 2008. (Bilateral trade data set for 1980 -1998 used in the paper (STATA file) now revised to 2010).

indicators of all the countries in the world from 1980 - 2010 (World Bank, 2016).⁵ FDI data was taken from the OECD and consists of bilateral outward and inward flows.⁶

The database then incorporated typical gravity model control variables from the current academic standard provider at the Centre d'Etudes Prospectives et d'Informations Internationales (CEPII). These included distance, contingency of trade partners, area of each country, current or former colonial relationships, time difference between countries (in hours), current or former status as a hegemon, the date of independence, and the existence of a conflict (CEPII, 2017).⁷

The data was then complemented with two additional components: FDI and DESTA trade agreement data, which included the construction of an alternative PTA dummy variable. These were taken from the OECD and DESTA respectively. A common code index was generated to join datasets paired by inconsistent pair ID naming and coding conventions. This database then generates pairwise observations of FDI in the context of extensive control variables.

In addition to the reference variable index, a PTA dummy variable was generated using the DESTA data as its indicator. This dummy is meant to include all membership agreements offering preference in trade, not including agreements such as Accession and Consultative Frameworks. This dummy is an addition to the other existing explanatory trade agreement variables found in the Chris Magee database which include PSA (Partial Scope Agreements), FTA (Free Trade Agreement), CU (Customs Union), and RTA (a general variable for membership in a Regional Trade Agreement). The DESTA PTA is made clear through its label of PTA_DESTA.

Isonumeric indicators found in OECD, DESTA, CEPII, and the WDI were used to create

⁵ <http://databank.worldbank.org/data/databases.aspx>

⁶ <http://www.oecd.org/corporate/mne/statistics.htm>

⁷ http://www.cepii.fr/cepii/en/bdd_modele/presentation.asp?id=8

an index of country and pair identification codes. After this merge was completed, the dataset of agreements signed 1980-2010 was joined to the base dataset, thereby constructing a new variable. During this 30 year time period, 258 actors (some were repeat actors) joined a RTA of some variety. This created approximately 17,000 ex ante/ex post PTA and FDI observations. The data sourced is an extension of the original PTA data used by Magee combined with an extremely comprehensive dataset covering all trade agreements from 1945 until 2014 (DESTA 2015).

Lastly, FDI data for OECD countries was added. Since the OECD reports FDI from the perspective of member countries both inward and outward pairwise flows were merged via iso-codes; outward FDI was then subtracted from inward FDI to create a FDI pair flow variable. Two different FDI databases were downloaded from the OECD and then merged together before being merged with data from DESTA, IMF and the WDI. The creation of the index of code concordances allowed for easier and more accurate data mergers.

Specifics of the data are further described below. Further questions regarding the data may be addressed to the authors.

2.2 Selected Variables: Codebook

iso_o	str4	3-digit ISO code for country of origin
iso_d	str4	3-digit ISO code for destination country
countrycode	int	IMF country code for country 1
partnercount~de	int	IMF country code for country 2
pair_code	float	numeric code for each country pair
isonumeric_o	str3	DESTA isonumeric
isonumeric_d	str3	DESTA isonumeric
isonum_pairid	str6	DESTA isonumeric
year	int	Year for trade
psa	byte	=1 if countries have a partial scope agreement
fta	byte	=1 if countries have a free trade agreement
cu	byte	=1 if countries have a customs union
rta	byte	=1 if country has a regional trade agreement of any kind
PTA_DESTA	float	= 1 if PTA of any kind signed 1980 - 2000 in Desta Database
rta_year	int	First year of most recent continuous RTA between countries
import2	float	imports replaced by reverse exports if missing or zero, constant 2000 \$
export2	float	exports replaced by reverse imports if missing or zero, constant 2000 \$
import_value	double	c.i.f. imports into country1 from country2, constant 2000 dollars
export_value	double	f.o.b. exports from country1 to country2, constant 2000 dollars
reverse_impor~e	double	country2 imports from country1 (reported by country2), constant 2000 \$
reverse_expor~e	double	country2 exports to country1 (reported by country2), constant 2000 \$
ec	byte	=1 if both countries are in the EC/EU
efta	byte	=1 if two countries are in EFTA
Andean_commu n	byte	=1 if both countries are in Andean Community
asean	byte	=1 if both countries are in ASEAN free trade area
apta	byte	=1 if in Asia Pacific Trade Agreement
caricom	byte	=1 if in Carribean Community & Common Market
cacm	byte	=1 if in Central American Common Market
cefta	byte	=1 if in Central European Free Trade Area
ptaesa	byte	=1 if in Pref Trade Area for Eastern & Southern Africa
comesa	byte	=1 if in Common Market for Eastern and Southern Africa
cis	byte	=1 if in Commonwealth of Independent States
cez	byte	=1 if in Common Economic Zone
cafta	byte	=1 if in DR-Central America US Free Trade Agreement
sacu	byte	=1 if in Southern African Customs Union
eac	byte	=1 if in East African Community
cemac	byte	=1 if in Econ & Monetary Community of Central Africa

eco	byte	=1 if in Economic Cooperation Organization
eaec	byte	=1 if in Eurasian Economic Community
gstp	byte	=1 if in Global System of Trade Preferences among dvpin countries
gcc	byte	=1 if in Gulf Cooperation Council
laia	byte	=1 if in Latin American Integration Association
msg	byte	=1 if in Melanesian Spearhead Group
nafta	byte	=1 if in North American Free Trade Agreement
picta	byte	=1 if in Pacific Island Countries Trade Agreement
pafta	byte	=1 if in Pan-Arab Free Trade Area
ptn	byte	=1 if in Protocol on Trade Negotiations
safta	byte	=1 if in South Asian Free Trade Agreement
sapta	byte	=1 if in South Asian Preferential Trade Arrangement
sparteca	byte	=1 if in South Pacific Regional Trade & Econ. Coop. Agreement
mercosur	byte	=1 if in Southern Common Market
tpsep	byte	=1 if in Trans-Pacific Strategic Economic Partnership
waemu	byte	=1 if in West African Economic and Monetary Union
sadc	byte	=1 if in Southern African Development Community
ecowas	byte	=1 if in Econ. Community of West African States
contig	byte	1 for contiguity
comlang_off	byte	1 for common official of primary language
comlang_ethno	byte	1 if a language is spoken by at least 9% of the population in both countries
comcol	byte	1 for common colonizer post 1945
col45	byte	1 for pairs in colonial relationship post 1945
dist	float	simple distance (most populated cities, km)
distcap	float	simple distance between capitals (capitals, km)
distwces	double	weighted distance (pop-wt, km) CES distances with theta=-1
distw	double	weighted distance (pop-wt, km)
area1	long	Area in sq. kms
area2	long	Area in sq. kms
tdiff	float	nb of hours difference between ex and im
heg2	byte	destination is current or former hegemon of origin
conflict	byte	1 if war
indepdate	int	Independence date if colony == 1
heg1	byte	origin is current or former hegemon of destination
col_to	byte	1 for trade from heg_o to colony
col_fr	byte	1 for trade from colony to heg_d
colony	byte	1 for pair ever in colonial relationship
curcol	byte	1 for pair currently in colonial relationship
empire	str3	empire to which both countries belong to

gatt1	byte	1 if origin is GATT/WTO member
gatt2	byte	1 if destination is GATT/WTO member
rta_cepil	byte	1 for regional trade agreement in force
leg1	str2	legal origin of exporter
leg2	str2	legal origin of importer
comleg	byte	common legal origin
comcur	byte	Common Currency
rta_year2	int	First year of earliest RTA between countries
gdppc1	float	GDPPC of country 1 in constant 2000 \$, WDI
gdp1	double	GDP of country 1 in millions of constant 2000 \$, WDI
pop1	float	population of country 1 in millions of people, WDI
gdppc2	float	GDPPC of country 2 in constant 2000 \$, WDI
gdp2	double	GDP of country 2 in millions of constant 2000 \$, WDI
pop2	float	population of country 2 in millions of people, WDI
num_partners	int	total # of RTA partners for c1 in year
td	byte	=1 if rta==0 & c1 has RTA with at least one other country
td2	int	=0 if rta==1, =number of c1's RTA partners if rta==0
ln_dist	float	ln(distw)
ln_gdp1	float	ln(gdp1)
ln_gdp2	float	ln(gdp2)
ln_m	float	ln(import2)
ln_m2	float	ln(max(1,import2))
religion_same~d	float	Common Religion (recoded)
smctry	byte	1 if countries were or are the same country
countryname	str49	Country Name
partnercount~me	str53	Partner Country Name
numbersimple	int	NumberSimple
number	int	Number
name	str90	Name
fulltext	byte	Fulltext
coded	int	Coded
wtolisted	byte	WTOListed
wto_early	byte	WTO_Early
wto_name	str124	WTO_Name
wtodatenotifi~n	str18	WTODateNotification
wtolegalcover	str29	WTOLegalCover
gptad_name	str74	GPTAD_Name
hbagreement	str334	HBAgreement
hbtype	str10	HBType
hbtypecode	byte	HBTypeCode

wotype	str7	WOType
wotypecode	byte	WOTypeCode
language	byte	Language
typememb	byte	TypeMemb
numberms	byte	NumberMS
dyads	int	Dyads
northsouth	byte	NorthSouth
typedepth	byte	TypeDepth
sectoral	byte	Sectoral
FDI_iso_pairid	str7	OECD Pair_ID
inflows	float	OECD Outward FDI
outflow	float	OECD Inward FDI
FDIpair_flows	float	= Inward FDI - Outward FDI by pair

2.3 Countries included in the dataset

Country	iso	FREQ	Country	iso	FREQ
Aruba	ABW	5,421	Korea (South)	KOR	5,584
Afganistan	AFG	5,584	Kuwait	KWT	7,432
Angola	AGO	7,194	Lao PDR	LAO	5,584
Albania	ALB	5,913	Lebanon	LBN	7,140
Netherlands Antilles	ANT	5,311	Liberia	LBR	7,421
United Arab Emirates	ARE	6,788	Libya	LBY	7,712
Argenti	ARG	8,442	Saint Lucia	LCA	5,840
Armenia	ARM	3,979	Sri Lanka	LKA	8,363
Antigua and Barbuda	ATG	5,584	Lesotho	LSO	5,583
Australia	AUS	8,527	Lithuania	LTU	3,949
Austria	AUT	8,436	Luxembourg	LUX	2,998
Azerbaijan	AZE	3,901	Latvia	LVA	3,918
Burundi	BDI	6,865	Macao, SAR China	MAC	5,491
Belgium	BEL	3,001	Morocco	MAR	8,151
Benin	BEN	7,673	Moldova	MDA	3,917
Burkina Faso	BFA	7,268	Madagascar	MDG	8,052
Bangladesh	BGD	6,946	Maldives	MDV	5,831
Bulgaria	BGR	5,933	Mexico	MEX	8,052
Bahrain	BHR	6,755	Macedonia, Republic of	MKD	3,427
Bahamas	BHS	5,584	Mali	MLI	7,485
Bosnia and Herzegovina	BIH	3,539	Malta	MLT	8,360
Belarus	BLR	3,942	Myanmar	MMR	7,755
Belize	BLZ	7,551	Montenegro	MNE	2,002
Bermuda	BMU	5,460	Mongolia	MNG	5,834
Bolivia	BOL	7,744	Mozambique	MOZ	7,524
Brazil	BRA	8,354	Mauritania	MRT	7,008
Barbados	BRB	7,964	Moldova	MUS	8,150
Brunei Darussalam	BRN	7,248	Malawi	MWI	7,275
Bhutan	BTN	4,601	Malaysia	MYS	7,422
Botswana	BWA	5,584	Namibia	NAM	5,269
Central African Republic	CAF	7,399	New Caledonia	NCL	4,988
Canada	CAN	8,458	Niger	NER	7,795
Switzerland	CHE	8,476	Nigeria	NGA	7,975
Chile	CHL	7,825	Nicaragua	NIC	7,132
China	CHN	6,332	Netherlands	NLD	8,439
Côte d'Ivoire	CIV	5,584	Norway	NOR	8,476
Cameroon	CMR	8,190	Nepal	NPL	5,587
Congo (Brazzaville)	COG	5,584	New Zealand	NZL	8,439
Colombia	COL	8,357	Oman	OMN	6,592
Comoros	COM	6,399	Pakistan	PAK	8,244
Cape Verde	CPV	6,714	Panama	PAN	7,838
Costa Rica	CRI	8,154	Peru	PER	8,268
Cuba	CUB	5,584	Philippines	PHL	8,403
Cyprus	CYP	8,235	Palau	PLW	2,756
Czech Republic	CZE	3,757	Papua New Guinea	PNG	7,181
Germany	DEU	8,457	Poland	POL	7,309

Djibouti	DJI	5,809	Korea (North)	PRK	5,584
Dominica	DMA	6,201	Portugal	PRT	8,477
Denmark	DNK	8,476	Paraguay	PRY	7,552
Dominican Republic	DOM	7,819	French Polynesia	PYF	5,584
Algeria	DZA	7,906	Qatar	QAT	6,681
Ecuador	ECU	7,868	Romania	ROM	5,584
Egypt	EGY	5,584	Russian Federation	RUS	3,609
Eritrea	ERI	3,609	Rwanda	RWA	7,363
Spain	ESP	8,417	Saudi Arabia	SAU	7,819
Estonia	EST	3,936	Sudan	SDN	7,875
Ethiopia	ETH	7,941	Senegal	SEN	8,151
Finland	FIN	8,485	Singapore	SGP	7,736
Fiji	FJI	7,432	Solomon Islands	SLB	5,968
France	FRA	8,437	Sierra Leone	SLE	7,657
Faroe Islands	FRO	5,584	El Salvador	SLV	7,626
Gabon	GAB	7,838	Somalia	SOM	5,584
United Kingdom	GBR	8,476	Serbia	SRB	2,041
Georgia	GEO	3,925	Sao Tome and Principe	STP	5,584
Ghana	GHA	8,030	Suriname	SUR	7,478
Gibraltar	GIB	5,584	Slovakia	SVK	3,758
Guinea	GIN	5,934	Slovenia	SVN	3,752
Gambia	GMB	5,584	Sweden	SWE	8,443
Guinea-Bissau	GNB	6,518	Swaziland	SWZ	5,584
Equatorial Guinea	GNQ	5,992	Seychelles	SYC	6,558
Greece	GRC	8,379	Syrian Arab Republic (Syria)	SYR	5,584
Grenada	GRD	6,779	Chad	TCD	6,978
Greenland	GRL	5,584	Togo	TGO	7,543
Guatemala	GTM	7,967	Thailand	THA	8,374
Guyana	GUY	7,763	Tajikistan	TJK	3,833
Hong Kong, SAR China	HKG	5,584	Turkmenistan	TKM	3,795
Honduras	HND	7,951	Tonga	TON	5,855
Croatia	HRV	3,768	Trinidad and Tobago	TTO	8,228
Haiti	HTI	7,742	Tunisia	TUN	8,264
Hungary	HUN	7,476	Turkey	TUR	8,329
Indonesia	IDN	8,090	Tuvalu	TUV	5,584
India	IND	8,478	Tanzania, United Republic of	TZA	7,830
Ireland	IRL	8,436	Uganda	UGA	7,433
Iran, Islamic Republic of	IRN	5,584	Ukraine	UKR	3,942
Iraq	IRQ	7,716	Uruguay	URY	8,055
Iceland	ISL	8,329	United States of America	USA	8,501
Israel	ISR	7,980	Uzbekistan	UZB	3,769
Italy	ITA	8,462		VCT	6,084
Jamaica	JAM	8,224	Venezuela (Bolivarian Republic)	VEN	5,584
Jordan	JOR	7,954	Viet Nam	VNM	6,508
Japan	JPN	8,513	Vanuatu	VUT	6,560
Kazakhstan	KAZ	3,940	Samoa	WSM	6,562
Kenya	KEN	8,177	Yemen	YEM	3,941
Kyrgyzstan	KGZ	3,883	South Africa	ZAF	5,912
Cambodia	KHM	6,509	Democratic Republic of Congo	ZAR	5,011
Kiribati	KIR	5,365	Zambia	ZMB	7,664

Saint Kitts and Nevis	KNA	5,880	Zimbabwe	ZWE	6,332
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2.4 Data availability matrix by country

ISO code for country of origin	Year for trade																															
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
ABW	164	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191	191
AFG	164	163	163	165	164	164	164	165	165	165	166	166	182	188	188	189	188	191	190	191	82	191	191	191	191	191	191	191	191	191	191	191
AGO	164	163	164	165	163	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	86	191	191	191	191	191	191	191	191	191	191	191
ALB	164	163	164	165	163	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	83	191	191	191	191	191	191	191	191	191	191	191
ANT	156	155	156	156	156	156	156	156	156	156	157	157	173	179	180	180	179	182	181	182	182	182	182	182	182	182	182	182	182	182	182	182
ARE	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	189	191	75	191	191	191	191	191	191	191	191	191	191	191
ARG	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	49	191	191	191	191	191	191	191	191	191	191	191
ARM													180	185	186	186	185	188	187	188	166	188	188	188	188	188	188	188	188	188	188	
ATG	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
AUS	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	189	190	191	60	190	190	191	191	191	190	191	191	191	190	191
AUT	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	37	191	191	191	191	191	191	191	191	191	191	191
AZE													176	182	182	183	182	185	184	185	121	185	185	185	184	185	185	185	185	185	185	185
BDI	164	163	164	165	164	164	164	165	165	165	166	164	182	188	189	189	188	191	190	191	115	190	190	191	191	191	191	191	191	191	191	191
BEL																					191	190	191	191	191	191	191	191	191	191	191	191
BEN	164	162	164	165	164	164	164	165	165	165	165	166	182	188	189	189	188	191	190	191	93	191	191	191	191	190	189	191	191	191	191	190
BFA	164	163	164	165	164	164	163	165	165	165	164	166	182	188	189	189	188	191	190	191	121	190	191	191	191	190	191	191	191	190	191	191
BGD	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	187	191	190	191	56	191	191	191	191	191	191	191	191	191	191	191
BGR	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	51	191	191	191	191	191	191	191	191	191	191	191
BHR	164	163	162	165	164	164	164	165	165	165	166	165	182	188	189	189	188	191	190	191	85	190	191	191	191	191	191	191	191	191	191	191
BHS	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
BIH													183	184	184	183	186	185	186	135	186	186	186	186	186	186	186	186	186	186	186	186
BLR													181	187	189	189	188	191	190	191	85	191	191	191	191	191	191	191	191	191	191	191
BLZ	164	163	164	165	164	164	164	165	165	165	166	166	182	187	189	189	188	191	190	191	82	191	191	191	191	191	191	191	191	191	191	191
BNU	159	158	160	161	160	160	160	161	160	161	162	161	178	181	185	185	184	187	186	186	187	187	187	187	184	187	187	187	187	187	187	
BOL	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	79	191	191	191	191	190	191	191	191	191	190	191
BRA	163	163	164	164	164	164	164	165	165	165	165	166	182	188	189	189	188	190	190	191	58	191	191	191	191	191	191	191	191	191	191	191
BRB	164	163	163	165	162	164	163	165	165	165	166	166	182	188	188	189	188	191	190	191	83	190	191	190	191	191	191	191	190	191	190	191
BRN	164	163	163	165	164	164	163	165	165	165	165	166	182	187	189	188	188	191	190	190	115	190	191	191	191	191	191	191	191	191	191	191
BTN													181	187	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
BWA	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
CAF	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	87	191	191	191	191	190	191	191	191	191	191	191
CAN	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	46	191	191	191	191	191	191	191	191	191	191	191
CHE	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	40	191	191	191	191	191	191	191	191	191	191	191
CHL	164	163	163	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	56	191	191	191	191	191	191	191	191	191	191	191
CHN	162	161	162	163	161	162	162	163	162	162	164	164	180	186	187	187	186	189	187	189	80	189	189	189	189	189	189	188	188	188	189	189
CIV	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
CMR	164	163	164	165	164	164	164	165	165	165	166	166	182	186	189	189	188	191	190	191	59	190	191	191	191	190	190	191	191	191	191	191
COG	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
COL	164	162	163	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	44	191	191	191	191	190	191	191	191	191	191	191
COM	164	163	164	165	164	164	164	165	165	165	166	165	182	188	189	188	188	191	190	191	138	191	191	191	191	190	191	191	191	191	191	191
CPV	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	94	191	191	191	191	191	191	191	191	191	191	191
CRI	158	157	158	159	158	158	158	159	159	159	160	160	176	182	183	183	182	185	184	185	52	185	185	185	185	185	185	185	185	185	185	185
CUB	164	163	164	165	164	164	164	165	165	165	166	166	182	188	189	189	188	191	190	191	191	191	191	191	191	191	191	191	191	191	191	191
CYP	164	163	164	165	164	164	164	165	165	165	166	166	182	188	188	188	188	191	190	191	76	191	191	191	191	190	191	191	191	191	190	191
CZE													188	189	189	188	191	190	191	62	191	191	191	191	191	191	191	191	191	191	191	191

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